

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:56
First Dose M/F: NA / NA
Lab: BAT

C Number: C53634B
Lock Date: Not Entered.
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 01/25/1990

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6001

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|-------------|----------------------------------|-------------------|
| Gallbladder | Epithelium | Hyperplasia | Moderate |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCUS SEEN AT TRIM | | | |
| Liver | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 3-1+10 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 2-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Moderate |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |
| Stomach | Forestomach | Inflammation | Necrotizing, Mild |
| Note: INFLAMMATION TGLs = 4-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6002

TRT#: 1

SEX: Male

DAY ON TEST: 535

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Pancreas | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|------------------------|-------------------------|-------------------|--------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Parathyroid Gland | Thymus |
|------------------------|-------------------------|-------------------|--------|

OBSERVATIONS

| | | |
|-------------------------------|------------------------------|----------|
| Liver | Fatty Change | Moderate |
| Lung | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| Spleen | Depletion Lymphoid | Moderate |
| Note: DEPLET LYMPH TGLs = 1-1 | | |
| Testes | | |
| Note: C O MORB: UNKNOWN | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6003

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone Marrow | Brain | Epididymis | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Liver | Lung | Lymph Node |
| Nose | Pancreas | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|-------------------------------|--------|-------------------|------------------|
| Adrenal Gland | Cortex | Hyperplasia | Mild |
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7 | | | |
| Note: HYPEROSTOSIS=ANKYLOSIS | | | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6004

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------|--------|-------------------|---------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6005

TRT#: 1

SEX: Male

DAY ON TEST: 667

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Kidney
Pancreas
Skin
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Stomach - Glandular
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node
Prostate
Testes
Urinary Bladder

MISSING

Gallbladder
Intestine Large - Cecum

Intestine Small - Jejunum

Pituitary Gland

Stomach - Forestomach

AUTO PRECLUDES DIAG.

OBSERVATIONS

Adrenal Gland
Intest Small

Subcapsular

Hyperplasia

Mild

Note: JEJUNUM MISSING FROM SLIDE # 4, BUT PRESENT AT TRIM;
Note: APPARENTLY LOST IN PROCESSING

Liver

Histiocytic Sarcoma

Note: [HISTIO SARC] TGLs = 1,2-1+7

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6006

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone Marrow | Brain | Epididymis | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

INSUFFICIENT TISSUE

Islets, Pancreatic

OBSERVATIONS

| | | | |
|---|--------|------------------------------|--------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 2-7 | | | |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECUM FOCUS NOTED AT TRIM | | | |
| Liver | | Eosinophilic Focus | Mild |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| [Alveolar/Bronchiolar Adenoma TGLS = 1-2] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6007

TRT#: 1

DOSE: 0 PPM 0-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 727

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------|---|---------|
| Liver | | Granuloma | Minimal |
| Note: INFLAMMATION TGLs = 4-1 | | | |
| Note: NO CORRESP LESION FOR MEDIAN LOBE FOCUS SEEN AT NECROPS | | | |
| Lymph Node | Mediastinal | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N:NORMAL | | | |
| [Lymphoma Malignant Undifferentiated Cell Type TGLS = 2-8] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

| | | | |
|------------------------|--|---|--|
| ANIMAL ID: 6008 | TRT#: 1 DOSE: 0 PPM 0-0 | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 728 HISTO: |
|------------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Liver | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | | | |
|-------------------------|--------|--|--|
| Intestine Large - Colon | Thymus | | |
|-------------------------|--------|--|--|

OBSERVATIONS

| | | | |
|---------------------------------|------------|----------------------------------|--------------------------|
| Intestine Small | Jejunum | Inflammation | Chronic Active, Moderate |
| Kidney | | Nephropathy | Chronic, Minimal |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: ALV BRON CARC TGLs = 2-2 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

| | |
|------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6009

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|---------|
| Harderian Gland | | Adenoma | |
| Liver | | | |
| Note: NO CORRESP LESION FOUND FOR LIVER FOCUS SEEN AT TRIM | | | |
| Lung | Artery | Thrombosis | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6010

TRT#: 1

SEX: Male

DAY ON TEST: 447

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|--|-----------------|--------------------------|------------------|
| Liver | | Hepatocellular Carcinoma | Multiple |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMA [Hepatocellular Carcinoma TGLS = 2,3,4-7+8] | | | |
| Lung | Interstitialium | Inflammation | Chronic, Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Preputial Gland | | Abscess | Moderate |
| [Abscess TGLS = 1-9] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6011

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Pituitary Gland

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

| | | | |
|---------------------------------|-------------|------------------------|---------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Liver | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 1-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6012

TRT#: 1

SEX: Male

DAY ON TEST: 531

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|--------|
| Liver | | Hepatocellular Adenoma | Single |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| [Hematopoietic Cell Proliferation TGLS = 1-4] | | | |
| Testes | | | |
| Note: C O MORB: UNKNOWN | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6013

TRT#: 1

DOSE: 0 PPM 0-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|--|------------|--------------------------|-------------------------------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCI NOTED AT TRIM | | | |
| Liver | | Hemangiosarcoma | |
| | | Hepatocellular Carcinoma | Multiple |
| [Hepatocellular Carcinoma TGLS = 3,4,5-1+10] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | Mesenteric | Inflammation | Granulomatous, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: INFLAMMATION TGLs = 1-7 | | | |
| Preputial Gland | Duct | Dilatation | Moderate |
| Note: DILATATION TGLs = 2-9 | | | |
| Sem Ves | | | |
| Note: NO CORRESP LESION FOR SMALL SEMINAL VESICLES NOTED AT TRIM | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6014

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Liver | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------|--------------------------------|-------------------|
| Heart | Epicardium | Inflammation | Chronic, Minimal |
| Intest Large | | | |
| Note: NO CORESP LESION FOR CECAL FOCI NOTED AT TRIM | | | |
| Kidney | | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
| Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| Note: ALV BRON CARC TGLs = 2-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Preputial Gland | | Abscess | Marked |
| Note: ABSCESS TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Acanthosis | Mild |
| | Forestomach | Hyperkeratosis | Mild |
| Note: ACANTHOSIS TGLs = 4-8 | | | |
| Note: HYPERKERATOSIS TGLs = 4-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6015

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|---------|
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL [Hematopoietic Cell Proliferation TGLS = 1-7] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6016

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|---------|
| Bone | | | |
| Note: NO CORRESP LESION FOR LESION NOTED IN LEFT TARSUS AT NECR | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 2-8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 4-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Acanthosis | Minimal |
| | Forestomach | Hyperkeratosis | Minimal |
| Note: ACANTHOSIS TGLs = 3-9 | | | |
| Note: HYPERKERATOSIS TGLs = 3-9 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6017

TRT#: 1

DOSE: 0 PPM 0-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Liver | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|--------------------------|---|---------------------------|
| Intestine Small Note: INFLAMMATION TGLs = 2-8 | Jejunum | Inflammation | Chronic Active, Moderate |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver Note: TGLs=3-7: LIVER IS NORMAL | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node Note: INFILTRAT CELL TGLs = 1-7 Note: HYPERPLASIA TGLs = 1-7 Note: MAND L N: NORMAL | Mesenteric Mesenteric | Hematopoietic Cell Proliferation Hyperplasia | Minimal Lymphoid, Mild |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Spleen | | Hyperplasia | Lymphoid, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6018

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|----------------------|----------------|---|------------------|
| Heart | Epicardium | Inflammation | Chronic, Minimal |
| Liver | | Cyst | Mild |
| | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN | TGLs = 3,4-7+8 | | |
| Lymph Node | Mandibular | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mediastinal | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF | TGLs = 2-9 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF | TGLs = 1-1 | | |
| Thyroid Gland | Follicular Cel | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6019

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7 | | | |
| Note: HYPEROSTOSIS=ANKYLOSIS | | | |
| Intestine Large | Rectum | Parasite Metazoan | |
| Note: NO CORRESP LESION FOR CECAL FOCI NOTED AT TRIM | | | |
| Liver | | Hepatocellular Carcinoma | Multiple |
| [Hepatocellular Carcinoma TGLS = 3,4-1+8] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N:NORMAL | | | |
| [Hematopoietic Cell Proliferation TGLS = 2-8] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6020

TRT#: 1

DOSE: 0 PPM 0-0

SEX: Male

DISP: Natural Death

DAY ON TEST: 632

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------|--------------------------|---------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Mild |
| Intestine Small | Ileum | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 3-4+7 | | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Lymphoma Malignant Mixed | |
| Note: C O DEATH: LYMPHOMA MALIGN MIXED, MULTIPLE ORGANS | | | |
| Note: LYMPH MAL MIXD TGLs = 4-1+8 | | | |
| Lung | | Lymphoma Malignant Mixed | |
| Lymph Node | Mandibular | Lymphoma Malignant Mixed | |
| | Mediastinal | Lymphoma Malignant Mixed | |
| | Mesenteric | Lymphoma Malignant Mixed | |
| | Renal | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 2-4+9 | | | |
| Spleen | | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 1-1+8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6021

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-------------------------------------|-------------------|------------------------------|----------|
| Liver | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 2,3-7+8 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 1-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:56
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 6022 | TRT#: 1 | SEX: Male | DAY ON TEST: 531 |
| | DOSE: 0 PPM 0-0 | DISP: Moribund Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------|-------------|------------------------------|---------|
| Adrenal Gland | Subcapsular | Hyperplasia | Minimal |
| Liver | | Fatty Change | Mild |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Stomach | Glandular | Ectopic Tissue | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6023

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone | Brain | Epididymis | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|--|---|----------------------------------|------------------|
| Bone Marrow | Femoral | Hemangiosarcoma | |
| | Sternal | Hemangiosarcoma | |
| Note: C O DEATH: HEMANGIOSARCOMA OF SPLEEN AND BONE MARROW | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Alveolar/Bronchiolar Carcinoma TGLS = 1-7] | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 3-8 | | | |
| Spleen | | Hemangiosarcoma | |
| [Hemangiosarcoma TGLS = 2-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6024

TRT#: 1

DOSE: 0 PPM 0-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|--|-------------|--------------------------------|------------------|
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCI NOTED AT TRIM | | | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 4-8 | | | |
| Lymph Node | Mandibular | Lymphoma Malignant Lymphocytic | |
| | Mediastinal | Lymphoma Malignant Lymphocytic | |
| | Mesenteric | Lymphoma Malignant Lymphocytic | |
| [Lymphoma Malignant Lymphocytic TGLS = 1,2-7] | | | |
| Spleen | | Lymphoma Malignant Lymphocytic | |
| [Lymphoma Malignant Lymphocytic TGLS = 3-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6025

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | |
|---|---|---------------------|
| Harderian Gland | Adenoma Inflammation | Necrotizing, Marked |
| Note: ADENOMA TGLs = 1-5+7 Note: C O MORB: HARDERIAN GL ADENOMA AND INFLAMMATION [Adenoma TGLS = 1-5+7] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Spleen | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 2-8 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6026

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Islets, Pancreatic

OBSERVATIONS

| | | | |
|--|-------------------|------------------------------|----------|
| Liver | | Basophilic Focus | Moderate |
| Note: NO CORRESP LESION FOR LIVER NODULE NOTED AT NECROPSY | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN TGLs = 2,3-8+9 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N:NORMAL | | | |
| Note: ECTASIA TGLs = 1-10 | | | |
| Skin | | Acanthosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6027

TRT#: 1

DOSE: 0 PPM 0-0

SEX: Male

DISP: Natural Death

DAY ON TEST: 554

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Kidney
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Lung
Salivary Glands
Testes

Bone
Esophagus
Intestine Small - Jejunum
Nose
Skin
Thyroid Gland

Bone Marrow
Heart
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Trachea

MISSING

Gallbladder
Thymus

Intestine Small - Duodenum

Parathyroid Gland

Pituitary Gland

OBSERVATIONS

Intestine Large

Cecum
Cecum

Lymphoma Malignant Undifferentiated Cell Type
Ulcer

Marked

Note: [LYMPH MAL UNDF] TGLs = 2-9

Note: ULCER TGLs = 2-9

Intestine Small

Ileum
Ileum

Lymphoma Malignant Undifferentiated Cell Type
Ulcer

Marked

Liver

Hematopoietic Cell Proliferation
Hepatocellular Carcinoma
Necrosis

Minimal
Single
Coagulative, Mild

[Hepatocellular Carcinoma TGLs = 3-7]

Lymph Node

Mesenteric

Lymphoma Malignant Undifferentiated Cell Type

Note: LYMPH MAL UNDF TGLs = 1-8

Note: MAND L N: NORMAL

Mesentery

Inflammation

Acute, Marked

Pituitary GI

Note: PITUITARY PRESENT AT TRIM BUT ABSENT ON SLIDE #6, SO

Note: THE ORGAN WAS APPARENTLY LOST IN PROCESSING

Spleen

Lymphoma Malignant Undifferentiated Cell Type

Note: ORGANS; ULCER OF ILEUM; ACUTE INFLAMM OF MESENTERY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6027

TRT#: 1

SEX: Male

DAY ON TEST: 554

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: C OF DEATH: UNDIFFERENTIATED LYMPHOSARCOMA, MUTIPLE
[Lymphoma Malignant Undifferentiated Cell Type TGLS = 4-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6028

TRT#: 1

SEX: Male

DAY ON TEST: 268

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Nose | Pancreas | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Trachea |
| Urinary Bladder | | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--|--------------|----------------------------------|----------------------|
| Heart | Coron Artery | Inflammation | Chronic, Moderate |
| Lung | Mediastinum | Inflammation | Chronic Active, Mild |
| Lymph Node | Mandibular | Abscess | Moderate |
| | Mandibular | Bacterium | |
| Note: C O MORB: MANDIBULAR L NODE ABSCESS | | | |
| Note: ABSCESS TGLs = 2-7 | | | |
| Note: BACTERIUM TGLs = 2-7 | | | |
| Saliv Glands | | | |
| Note: NO CORRESP LESION FOR SALIVARY GL MASS NOTED AT NECROPSY | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6029

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------|---|----------------|
| Intestine Small Note: LYMPH MAL UNDF TGLs = 2-8 | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Liver | | Basophilic Focus | Mild |
| | | Eosinophilic Focus | Mild |
| Lymph Node Note: MAND L N: NORMAL Note: HEMA CELL PROL TGLs = 1-8 | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Spleen [Hyperplasia TGLs = 3-7] | | Hyperplasia | Lymphoid, Mild |
| Stomach [Squamous Cell Papilloma TGLs = 4-9] | Forestomach | Squamous Cell Papilloma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6030

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---------------------------------|------------|----------------------------------|------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:56

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6031

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|---------|
| Intestine Small Note: ADENOCARC TGLs = 1-8 | Jejunum | Adenocarcinoma | |
| Liver [Hepatocellular Adenoma TGLS = 2-9] | | Hepatocellular Adenoma | Single |
| Lymph Node Note: MAND L N:NORMAL Note: ECTASIA TGLs = 1-8 | Mesenteric, Sinus | Ectasia | Marked |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen Note: HEMA CELL PROL TGLs = 3-7 | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6032

TRT#: 1

SEX: Male

DAY ON TEST: 531

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Liver | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-------------------------|-------------------|--------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Lung | Bronchus | Foreign Body | Mild |
| | Interstitialium | Inflammation | Chronic, Minimal |
| Lymph Node | Mandibular, Sinus | Ectasia | Minimal |
| | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA | TGLs = 1,2-4+6+7 | | |
| Testes | | | |
| Note: C O MORB: UNKNOWN | | | |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6033

TRT#: 1

SEX: Male

DAY ON TEST: 683

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Bone | Bone Marrow | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Nose | Pituitary Gland | Salivary Glands |
| Trachea | | | |

MISSING

Thymus

AUTO PRECLUDES DIAG.

| | |
|-------------|-------------------------|
| Gallbladder | Intestine Small - Ileum |
|-------------|-------------------------|

OBSERVATIONS

| | | |
|-----------------|---------|--------------------------------|
| Adrenal Gland | Cortex | Lymphoma Malignant Lymphocytic |
| | Medulla | Lymphoma Malignant Lymphocytic |
| Brain | | Lymphoma Malignant Lymphocytic |
| Epididymis | | Lymphoma Malignant Lymphocytic |
| Harderian Gland | | Lymphoma Malignant Lymphocytic |
| Heart | | Lymphoma Malignant Lymphocytic |
| Kidney | | Lymphoma Malignant Lymphocytic |
| Liver | | Lymphoma Malignant Lymphocytic |

Note: C O DEATH: LYMPH MAL LYMPHOCYTIC, MUTIPLE ORG'S
[Lymphoma Malignant Lymphocytic TGLS = 3-1]

| | | |
|------------|-------------|--------------------------------|
| Lung | | Lymphoma Malignant Lymphocytic |
| Lymph Node | Mandibular | Lymphoma Malignant Lymphocytic |
| | Mediastinal | Lymphoma Malignant Lymphocytic |
| | Mesenteric | Lymphoma Malignant Lymphocytic |

Note: LYMPH MAL LYMP TGLs = 2,4-3+8+9

| | | |
|-------------------|-------------|--------------------------------|
| Mesentery | | Lymphoma Malignant Lymphocytic |
| Pancreas | | Lymphoma Malignant Lymphocytic |
| Parathyroid Gland | | Lymphoma Malignant Lymphocytic |
| Prostate | | Lymphoma Malignant Lymphocytic |
| Skeletal Muscle | Intercostal | Lymphoma Malignant Lymphocytic |
| Skin | | Hyperkeratosis |

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6033

TRT#: 1

SEX: Male

DAY ON TEST: 683

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|---------------------------------|-------------|--------------------------------|
| Spleen | Subcut Tiss | Lymphoma Malignant Lymphocytic |
| Note: LYMPH MAL LYMP TGLs = 1-7 | | Lymphoma Malignant Lymphocytic |
| Stomach | Forestomach | Lymphoma Malignant Lymphocytic |
| | Glandular | Lymphoma Malignant Lymphocytic |
| Testes | | Lymphoma Malignant Lymphocytic |
| Thyroid Gland | | Lymphoma Malignant Lymphocytic |
| Urinary Bladder | | Lymphoma Malignant Lymphocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6034

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Parathyroid Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pituitary Gland
Spleen
Thymus

Bone Marrow
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

Brain
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

OBSERVATIONS

Intest Large

Note: NO CORRESP LESION FOR CECAL FOCI SEEN AT TRIM

Lymph Node

Note: MAND L N: NORMAL

[Ectasia TGLS = 1-7]

Mesenteric, Sinus

Ectasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6035

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Gallbladder

OBSERVATIONS

Gallbladder

Note: GALLBLAD MISSING BUT COMM BILE DUCT PRESENT & NORMAL

Kidney

Infarct Minimal
Nephropathy Chronic, Minimal
Hepatocellular Adenoma Single

Liver

Note: HEPATOCLR ADEN TGLs = 3-8

Lung

Note: [ALV BRON ADEN] TGLs = 1-2

Alveolar/Bronchiolar Adenoma Single

Lymph Node

Mesenteric

Note: HYPERPLASIA TGLs = 2-7

Hyperplasia Plasma Cell, Moderate

Note: MAND L N: NORMAL

Mesentery

Inflammation Chronic, Mild

Skin

Acanthosis Minimal

Spleen

Parasite Metazoan
Hematopoietic Cell Proliferation Mild
Infiltration Cellular Plasma Cell, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6036

TRT#: 1

DOSE: 0 PPM 0-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone Marrow | Brain | Epididymis | Esophagus |
| Gallbladder | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|----------------------------------|---|--------------------|
| Bone Note: HYPEROSTOSIS TGLs = 2-7+10 | Tarsal | Hyperostosis | |
| Heart | Coron Artery | Inflammation | Chronic, Mild |
| Lymph Node Note: ECTASIA TGLs = 1-8 Note: MAND L N: NORMAL [Ectasia TGLS = 3-9] | Mesenteric, Sinus Mediastinal | Ectasia Hematopoietic Cell Proliferation | Mild Moderate |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Stomach | Glandular | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6037

TRT#: 1

SEX: Male

DAY ON TEST: 648

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | | |
|-------------|--------|--|--|
| Gallbladder | Thymus | | |
|-------------|--------|--|--|

OBSERVATIONS

| | | | |
|--|--------|----------------------------------|--------------------|
| Kidney | Artery | Inflammation | Subacute, Moderate |
| Liver | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 1-7 | | | |
| Note: C O DEATH:HEPATOCELLULAR CARCINOMA | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6038

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | | |

MISSING

| | |
|-------------------------|--------|
| Intestine Large - Colon | Thymus |
|-------------------------|--------|

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 4-7 | | | |
| Lung | Alveolus | Alveolar/Bronchiolar Adenoma | Single |
| Note: INFILTRAT CELL TGLs = 5-2 | | Infiltration Cellular | Histiocyte, Mild |
| [Alveolar/Bronchiolar Adenoma TGLS = 3-2] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 1-7 | | | |
| Urinary Bladder | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|--|---|--|
| ANIMAL ID: 6039 | TRT#: 1 DOSE: 0 PPM 0-0 | SEX: Male DISP: Moribund Sacrifice | DAY ON TEST: 704 HISTO: |
|------------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|----------------------------|----------------------|-------------------|----------|
| Lymph Node | Deep Cervical, Sinus | Ectasia | Moderate |
| | Mesenteric, Sinus | Ectasia | Marked |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1,2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Ulcer | Minimal |
| Testes | | | |
| Note: C O MORB: UNKNOWN | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6040

TRT#: 1

SEX: Male

DAY ON TEST: 691

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Lung
Pituitary Gland
Testes

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Nose
Prostate
Thyroid Gland

Bone
Esophagus
Islets, Pancreatic
Pancreas
Salivary Glands
Trachea

Bone Marrow
Heart
Kidney
Parathyroid Gland
Skin

MISSING

Intestine Large - Cecum
Stomach - Forestomach

Intestine Large - Colon
Stomach - Glandular

Intestine Small - Ileum
Thymus

Intestine Small - Jejunum

AUTO PRECLUDES DIAG.

Gallbladder

Urinary Bladder

OBSERVATIONS

Liver

Lymphoma Malignant Lymphocytic

Note: C O DEATH:LYMPHOMA LYMPHOCYTIC, MULTIPLE ORGANS

[Lymphoma Malignant Lymphocytic TGLS = 3-1+8]

Lymph Node

Mediastinal
Mesenteric

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 2-9

Note: MAND L N: NORMAL

Spleen

Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|--|---|--|
| ANIMAL ID: 6041 | TRT#: 1 DOSE: 0 PPM 0-0 | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: |
|------------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------|
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: MAND L N: NORMAL [Hematopoietic Cell Proliferation TGLS = 1-7] | | | |
| Skin | | Acanthosis Parasite Metazoan | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6042

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

| | | | |
|--|-------------|----------------------------------|----------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Bone | Tarsal | Hyperostosis | Mild |
| Note: HYPEROSTOSIS OF TARSAL JT=ANKYLOSIS | | | |
| Note: HYPEROSTOSIS TGLs = 1-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Hyperplasia | Lymphoid, Mild |
| Stomach | | | |
| Note: NO COORESP LESION FOR NODULE OF FORESTOM NOTED AT NECR | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6043

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | |
|------------|------------|---|
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type |
| | Renal | Lymphoma Malignant Undifferentiated Cell Type |

Note: MAND L N:NORMAL

Note: LYMPH MAL UNDF TGLs = 1,2,4-7+8+9

| | | |
|--------|---|---------|
| Skin | Acanthosis | Minimal |
| | Parasite Metazoan | |
| Spleen | Lymphoma Malignant Undifferentiated Cell Type | |

[Lymphoma Malignant Undifferentiated Cell Type TGLS = 3-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6044

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-----------------------------------|--------------|---|------------------|
| Heart | | Hemangiosarcoma | |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 3-8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Interlobular | Inflammation | Chronic, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1,2-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6045

TRT#: 1

SEX: Male

DAY ON TEST: 714

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|---------------------|----------------------------------|--------------------|
| Adrenal Gland | Cortex, Zona Glomer | Cytoplasmic Alteration | Mild |
| | Medulla | Hyperplasia | Mild |
| | Medulla | Pheochromocytoma Benign | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Hepatocellular Carcinoma | Single |
| Note: C O MORB: HEPATOCELLULAR CARCINOMA | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1+7 | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Alveolar Epith | Hyperplasia | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6046

TRT#: 1

SEX: Male

DAY ON TEST: 545

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Liver

Lung

Nose

Pancreas

Pituitary Gland

Prostate

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

INSUFFICIENT TISSUE

Lymph Node

Parathyroid Gland

OBSERVATIONS

Lymph Node

Note: MAND L N:INSUFICIENT TIISUE FOR HISTOPATH ANALYSIS

Testes

Note: C O MORB:UNKNOWN

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6047

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Skin
Testes
Urinary Bladder

Bone
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pituitary Gland
Spleen
Thymus

Bone Marrow
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Liver Eosinophilic Focus
Lymph Node

Mild

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6048

TRT#: 1

SEX: Male

DAY ON TEST: 541

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------------------|------------|
| Intestine Large - Cecum | Lymph Node |
|-------------------------|------------|

AUTO PRECLUDES DIAG.

| | |
|-------------|-------------------------|
| Gallbladder | Intestine Small - Ileum |
|-------------|-------------------------|

OBSERVATIONS

| | | | |
|--|------------------|--------------|-----------------------|
| Kidney | | | |
| Note: THAT WAS SEEN AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR WHITE ACCUMULATION COVERING KIDNEY | | | |
| Lung | Alveolar Epith | Hyperplasia | Mild |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Mesentery | | Inflammation | Necrotizing, Mild |
| Skin | Fat, Subcut Tiss | Necrosis | Moderate |
| Note: NECROSIS TGLs = 1-2 | | | |
| Testes | Tunic | Inflammation | Necrotizing, Moderate |
| Note: INFLAMMATION TGLs = 2-6 | | | |
| Note: C O DEATH: UNKNOWN | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6049

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|-------------------------------------|------------------|----------------------------------|-----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Hepatocellular Adenoma | Single |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| | Alveolar Epith | Hyperplasia | Mild |
| Note: ALV BRON ADEN TGLs = 1-10 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| Note: HYPERPLASIA TGLs = 2-8 | | | |
| Note: HEMA CELL PROL TGLs = 3-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Necrotizing, Marked |
| Note: INFLAMMATION TGLs = 5-1+4+7+9 | | | |
| Pancreas | | Necrosis | Marked |
| Prostate | Serosa | Inflammation | Necrotizing, Minimal |
| Skin | | Acanthosis | Minimal |
| | Fat, Subcut Tiss | Necrosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 4-1 | | | |
| Stomach | Glandular | Adenoma | |
| Note: ADENOMA TGLs = 6-11 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6049

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6050

TRT#: 1

SEX: Male

DAY ON TEST: 658

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------------------|
| Adrenal Gland | Cortex | Infarct | Moderate |
| Bone Marrow | Femoral | Hemangiosarcoma | |
| Liver | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 4-1+9 | | | |
| Note: C O DEATH:HEMANGIOSARCOMA, MULTIPLE ORGANS | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: MAND L N: NORMAL | | | |
| [Hematopoietic Cell Proliferation TGLS = 3-8] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |
| [Hemangiosarcoma TGLS = 1,2-7] | | | |
| Urinary Bladder | | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6051

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|------------------------|------------------------|
| Liver | | Cytologic Alterations | Mild |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Mild |
| | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 2-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Gingiva | Inflammation | Chronic Active, Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6052

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Cytologic Alterations | Minimal |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Marked |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-7+8+9 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA TGLs = 1-10 | | | |
| Note: HEMA CELL PROL TGLs = 1-10 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6053

TRT#: 2

SEX: Male

DAY ON TEST: 670

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|--------------------------|------------|------------------------|---------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Testes | | | |
| Note: C O DEATH: UNKNOWN | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6054

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|--------------------------|-------------------|
| Liver | | Basophilic Focus | |
| | | Cyst | |
| | | Cytologic Alterations | Mild |
| | | Cytomegaly | Mild |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| Note: CYST TGLs = 1-7 | | | |
| Note: HEPATOCLR CARC TGLs = 2-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N:NORMAL | | | |
| Note: ECTASIA TGLs = 3-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6055

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|--------------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Thrombosis | |
| Note: HEMANGIOSARC TGLs = 2-1 [Hepatocellular Adenoma TGLS = 1-7] | | | |
| Lymph Node | Mesenteric | Angiectasis | Mild |
| | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| Note: INFILTRAT CELL TGLs = 3-7 Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6056

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | |
|---|------------------------------|----------|
| Liver | Clear Cell Focus | Mild |
| | Cytologic Alterations | Mild |
| | Cytomegaly | Mild |
| | Eosinophilic Focus | Mild |
| | Hepatocellular Adenoma | Multiple |
| | Ito Cell Tumor Malignant | Multiple |
| Note: ITO CL TM MAL TGLs = 1,2,4-7+8+9+10 | | |
| Note: HEPATOCLR ADEN TGLs = 1,3-7+8+9 | | |
| Lung | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 5-11 | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6057

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 695

HISTO: 851027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|--------------|--------------------------------|-----------------------|
| Eye | Antr Chamber | Inflammation | Suppurative, Moderate |
| Note: INFLAMMATION TGLs = 3-7 | | | |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: MALIGN LYMPHOCYTIC, MULTIPLE ORGS | | | |
| Note: C O MORB: HEPATOCELLULAR CARCINOMA, ADENOMA; LYMPHOMA | | | |
| [Hepatocellular Adenoma TGLS = 2-9] | | | |
| [Hepatocellular Carcinoma TGLS = 2-9] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skeletal Muscle | Head | Lymphoma Malignant Lymphocytic | |
| | Intercostal | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 1,5-8+10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thymus | | Lymphoma Malignant Lymphocytic | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6058

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 727

HISTO: 851028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|-------------------|------------------------|--------------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS | TGLs = 1-10 | | |
| Liver | | Cytologic Alterations | Mild |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 3,4,5,6-7+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA | TGLs = 2-9 | | |
| Preputial Gland | Duct | Dilatation | Mild |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| | | Ulcer | Mild |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6059

TRT#: 2

SEX: Male

DAY ON TEST: 665

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|--|------------|------------------------------|----------------------|
| Harderian Gland | | Adenoma | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS [Hepatocellular Adenoma TGLS = 1,2-1+7+8] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Tooth | Gingiva | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6060

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---------------------------------|----------|--------------------------------|------------------|
| Liver | | Cytologic Alterations | Moderate |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Moderate |
| Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Tongue | | Squamous Cell Carcinoma | |
| Note: SQUAM CEL CARC TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6061

TRT#: 2

SEX: Male

DAY ON TEST: 678

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Jejunum |
| Islets, Pancreatic | Nose | Parathyroid Gland | Pituitary Gland |
| Stomach - Forestomach | Testes | Trachea | |

OBSERVATIONS

| | | | |
|--|------------------------|--|---------|
| Adrenal Gland | Subcapsular Capsule | Hyperplasia Lymphoma Malignant Undifferentiated Cell Type | Minimal |
| Epididymis | | Lymphoma Malignant Undifferentiated Cell Type | |
| Esophagus | | Lymphoma Malignant Undifferentiated Cell Type | |
| Gallbladder | | Lymphoma Malignant Undifferentiated Cell Type | |
| Heart | | Lymphoma Malignant Undifferentiated Cell Type | |
| Intestine Large | Rectum | Lymphoma Malignant Undifferentiated Cell Type | |
| Intestine Small | Duodenum Ileum | Lymphoma Malignant Undifferentiated Cell Type | |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| Liver | | Lymphoma Malignant Undifferentiated Cell Type Sarcoma | |
| Note: C O DEATH: LYMPHOMA MALIGN UNDIFF; SARCOMA | | | |
| Note: LYMPH MAL UNDF TGLs = 3,4-9 | | | |
| Lung | | Lymphoma Malignant Undifferentiated Cell Type | |
| [Lymphoma Malignant Undifferentiated Cell Type TGLs = 5-2] | | | |
| Lymph Node | Inguinal Mandibular | Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1-7 | | | |
| Mesentery | | Lymphoma Malignant Undifferentiated Cell Type | |
| Pancreas | | Lymphoma Malignant Undifferentiated Cell Type | |
| Prostate | | Lymphoma Malignant Undifferentiated Cell Type | |
| Salivary Glands | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1-7 | | | |
| Skeletal Muscle | Back | Lymphoma Malignant Undifferentiated Cell Type | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|-------------------------|----------------------------|-------------------------|
| ANIMAL ID: 6061 | TRT#: 2 | SEX: Male | DAY ON TEST: 678 |
| | DOSE: 0 PPM 10-0 | DISP: Natural Death | HISTO: 851031 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|-------------|---|--------------------|
| Skin | Head | Lymphoma Malignant Undifferentiated Cell Type Acanthosis Hyperkeratosis | Minimal Minimal |
| | Subcut Tiss | Lymphoma Malignant Undifferentiated Cell Type Parasite Metazoan | |
| Spleen Note: LYMPH MAL UNDF TGLs = 2-8 | | Lymphoma Malignant Undifferentiated Cell Type | |
| Stomach | Glandular | Lymphoma Malignant Undifferentiated Cell Type | |
| Thymus | | Lymphoma Malignant Undifferentiated Cell Type | |
| Thyroid Gland | | Lymphoma Malignant Undifferentiated Cell Type | |
| Urinary Bladder | | Lymphoma Malignant Undifferentiated Cell Type | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6062

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 851032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | |
|--|--------------------------|--------------------|
| Kidney | Cyst | |
| Liver | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| | Sarcoma | |
| Note: HEPATOCLR CARC TGLs = 1,3,5-8+9 | | |
| Note: [SARCOMA] TGLs = 1,4-10 | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,4-7+10 | | |
| Lung | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | | |
| Note: MAND L N:NORMAL | | |
| Note: NO CORRESP LESION FOR ENLARGED, RED MESENTERIC | | |
| Note: LYMPH NODE THAT WAS OBSERVED AT NECROPSY | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6063

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|------------------------------------|-------------------|------------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytologic Alterations | Mild |
| | | Cytomegaly | Mild |
| Note: CLEAR CL FOCUS TGLs = 3-1 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: [ALV BRON ADEN] TGLs = 2-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-4 | | | |
| Skin | | Acanthosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6064

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|-------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| [Hepatocellular Adenoma TGLS = 2-7] | | | |
| [Hepatocellular Carcinoma TGLS = 1-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 3-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6065

TRT#: 2

SEX: Male

DAY ON TEST: 617

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Lymph Node
Pituitary Gland
Spleen
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Islets, Pancreatic
Nose
Prostate
Testes

Bone
Esophagus
Kidney
Pancreas
Salivary Glands
Thyroid Gland

Bone Marrow
Heart
Lung
Parathyroid Gland
Skin
Trachea

MISSING

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Ileum

Thymus

AUTO PRECLUDES DIAG.

Gallbladder
Stomach - Glandular

Intestine Small - Duodenum

Intestine Small - Jejunum

Stomach - Forestomach

OBSERVATIONS

Liver

Fibrosarcoma
Hepatocellular Adenoma

Metastatic (Uncertain Primary Site)
Multiple

Note: METASTATIC TO THE LIVER FROM UNKNOWN SITE
Note: C O DEATH: HEPATOCELLULAR ADENOMA; FIBROSARCOMAS
Note: FIBROSARC TGLs = 1,2,3-1+7
Note: [HEPATOCLR ADEN] TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6066

TRT#: 2

SEX: Male

DAY ON TEST: 485

DOSE: 0 PPM 10-0

DISP: Moribund Sacrifice

HISTO: 851036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Blood | Bone |
| Bone Marrow | Brain | Epididymis | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|------------------|---|-------------------|
| Liver | | Cytomegaly | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| Lung | | Abscess | Minimal |
| | | Bacterium | |
| Lymph Node | Mandibular | Abscess | Marked |
| Note: ABSCESS | TGLs = 4-6 | | |
| Skin | | Abscess | Marked |
| Note: C O MORB: ABSCESSSES OF SKIN, MAND L N, LUNG | | | |
| Note: ABSCESS | TGLs = 1,3-5+6+7 | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Infiltration Cellular | Plasma Cell, Mild |
| | | [Hematopoietic Cell Proliferation TGLS = 2-1] | |
| | | [Infiltration Cellular TGLS = 2-1] | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6067

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 851037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|---------------------------------|------------|---|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| | | Nephropathy | Chronic, Moderate |
| Note: LYMPH MAL UNDF TGLs = 1-1 | | | |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Mild |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 3-1 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6068

TRT#: 2

SEX: Male

DAY ON TEST: 655

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Nose
Prostate
Testes

Bone
Gallbladder
Intestine Small - Duodenum
Pancreas
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland
Stomach - Forestomach
Trachea

Epididymis
Intestine Large - Colon
Islets, Pancreatic
Pituitary Gland
Stomach - Glandular
Urinary Bladder

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland
Bone Marrow

Cortex
Femoral
Sternal

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic
Hemangiosarcoma
Lymphoma Malignant Lymphocytic

Heart
Kidney

Hepatocellular Carcinoma
Lymphoma Malignant Lymphocytic
Necrosis
Thrombosis

Single
Coagulative, Mild

Note: [LYMPH MAL LYMP] TGLs = 3,8-11+12

Note: HEPATOCLR CARC TGLs = 4,5,6-8

Note: [LYMPH MAL LYMP] TGLs = 4-1+8+9

Note: C O DEATH: HEPATOCELLULAR CARCINOMA; LYMPH MAL LYMP

Lung

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic

Lymph Node

Mediastinal
Mesenteric

Note: MAND L N: MISSING

Note: [LYMPH MAL LYMP] TGLs = 2-10

Skin

Hyperkeratosis

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6068

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Natural Death

DAY ON TEST: 655

HISTO: 851038

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Note: [LYMPH MAL LYMP] TGLs = 1,7-1+7

Inflammation

Parasite Metazoan

Lymphoma Malignant Lymphocytic

Necrotizing, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6069

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Heart

OBSERVATIONS

| | | | |
|---------------------------------------|-------------------|------------------------|------------------|
| Kidney | | Infarct | Minimal |
| Liver | | Cytologic Alterations | Minimal |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| [Cytomegaly TGLS = 2,3,4,5-1+7+8+9] | | | |
| Lung | Interstitial | Inflammation | Chronic, Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6070

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|--------------------|
| Intest Small | | | |
| Note: NO CORRESP LESION FOR DUODENAL, JEJUNAL AND ILEAL NODULES | | | |
| Note: NODULES SEEN AT NECROPSY | | | |
| Liver | | Clear Cell Focus | |
| | | Cytologic Alterations | Mild |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| | Mesenteric | Infiltration Cellular | Histiocyte, Marked |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Note: INFILTRAT CELL TGLs = 1-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6071

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 652

HISTO: 851041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Epididymis |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| | Cortex | Hypertrophy | Mild |
| Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| Heart | Coron Artery | Inflammation | Chronic, Minimal |
| Liver | | Eosinophilic Focus | |
| Note: EOSIN FOCUS TGLs = 4-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| [Ectasia TGLS = 3-9] | | | |
| [Hematopoietic Cell Proliferation TGLS = 3-9] | | | |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Fibrosarcoma | |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: FIBROSARC TGLs = 2-8 | | | |
| Note: C O MORB: SCHWANNOMA OF SKIN | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 1-1] | | | |
| Stomach | Glandular | Inflammation | Acute, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6072

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Lung | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|---|------------|---|---------------------|
| Adrenal Gland | Cortex | Hyperplasia | Mild |
| Intestine Large | Cecum | Lymphoma Malignant Undifferentiated Cell Type | |
| Intestine Small | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 3,9,10,11-9+10 | | | |
| Kidney | | Cyst | Mild |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Marked |
| | | Hepatocellular Adenoma | Multiple |
| | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: HEPATOCLR ADEN TGLs = 4,5,6,7-1+11+12 | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 2-13 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Inflammation | Necrotizing, Marked |
| | Dermis | Metaplasia | Osseous, Mild |
| | | Parasite Metazoan | |
| Note: INFLAMMATION TGLs = 8-8 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6072

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 851042

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen
Note: LYMPH MAL UNDF TGLs = 1-7

Lymphoma Malignant Undifferentiated Cell Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6073

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-------------------------------------|-------------------|------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytologic Alterations | Mild |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Marked |
| | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 1-7 | | | |
| Note: CLEAR CL FOCUS TGLs = 2,3-7+8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| [Ectasia TGLS = 4-8] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6074

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|-------------------------------------|-------------------|----------------------------------|---------------|
| Epididymis | | Granuloma Sperm | Mild |
| Intestine Large | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 1,2-8+9 | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: ALV BRON CARC TGLs = 3-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 4-10 | | | |
| Note: ECTASIA TGLs = 4-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6075

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Natural Death

DAY ON TEST: 719

HISTO: 851045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Nose | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|--|--------------|----------------------------------|-----------------------|
| Bone | Tarsal | Hyperostosis | Mild |
| Note: HYPEROSTOSIS TGLs = 5-11 | | | |
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Eosinophilic Focus | Mild |
| | | Hemangiosarcoma | |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: HEMANGIOSARC TGLs = 3,4,7-1+7+9 | | | |
| Note: HEPATOCLR CARC TGLs = 7-8 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 6-10 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Chronic, Moderate |
| Pancreas | Interlobular | Inflammation | Chronic, Mild |
| Spleen | | Hemangiosarcoma | |
| | | Hematopoietic Cell Proliferation | Mild |
| Note: OF LIVER AND SPLEEN | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMA; HEMANGIOSARCOMA | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6075

TRT#: 2

SEX: Male

DAY ON TEST: 719

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851045

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangiosarcoma TGLS = 2-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6076

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Bone | Tarsal | Hyperostosis | Mild |
| Note: HYPEROSTOSIS TGLs = 1-9 | | | |
| Liver | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 3-1+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Mandibular | Hyperplasia | Lymphoid, Mild |
| Note: HEMA CELL PROL TGLs = 2-7 | | | |
| Note: ECTASIA TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6077

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|-------------------|------------------------------|----------------------|
| Adrenal Gland | Cortex | Amyloid Deposition | Moderate |
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 3-7+8 | | | |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Jejunum | Ulcer | Marked |
| Note: ULCER TGLs = 2-10 | | | |
| Kidney | Glomerulus | Amyloid Deposition | Moderate |
| Liver | | Amyloid Deposition | Mild |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: [HEPATOCLR ADEN] TGLs = 4-11 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN TGLs = 6,7-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1-12 | | | |
| Note: NOTED AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR ENLARGED CERVICAL LYMPH NODE | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6077

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851047

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Amyloid Deposition

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6078

TRT#: 2

SEX: Male

DAY ON TEST: 698

DOSE: 0 PPM 10-0

DISP: Moribund Sacrifice

HISTO: 851048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Nose | Parathyroid Gland | Pituitary Gland |
| Skin | Stomach - Forestomach | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-----------------|--------|
| Salivary Glands | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|---|----------|---|------------------|
| Adrenal Gland | Capsule | Lymphoma Malignant Undifferentiated Cell Type | |
| Bone Marrow | Femoral | Lymphoma Malignant Undifferentiated Cell Type | |
| | Sternal | Lymphoma Malignant Undifferentiated Cell Type | |
| Epididymis | | Lymphoma Malignant Undifferentiated Cell Type | |
| Harderian Gland | | Lymphoma Malignant Undifferentiated Cell Type | |
| Intestine Large | Rectum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 8-4+11 | | | |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| Liver | | Eosinophilic Focus | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: NO CORRESP LESION FOR LIVER NODULE AND FOCUS SEEN AT | | | |
| Note: TRIM ON THE RIGHT AND LEFT LATERAL LOBES (TGL #S 9&10 | | | |
| Note: HEPATOCLR CARC TGLs = 7-13 | | | |
| Note: C O MORB: HEPATOCELLULAR CARCINOMAS; LYMPH MAL UNDIFF | | | |
| [Lymphoma Malignant Undifferentiated Cell Type TGLS = 7-13] | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1,2-1+7+8 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|-------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 6078 | TRT#: 2 | SEX: Male | DAY ON TEST: 698 |
| | DOSE: 0 PPM 10-0 | DISP: Moribund Sacrifice | HISTO: 851048 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--|-------------|---|
| Note: ALV BRON CARC TGLs = 1,2-2+7+8 | | |
| Lymph Node | Mediastinal | Lymphoma Malignant Undifferentiated Cell Type |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type |
| | Renal | Lymphoma Malignant Undifferentiated Cell Type |
| Note: LYMPH MAL UNDF TGLs = 3,4,5-9+10+12 | | |
| Note: MAND L N: MISSING | | |
| Pancreas | | Lymphoma Malignant Undifferentiated Cell Type |
| Prostate | | Lymphoma Malignant Undifferentiated Cell Type |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type |
| [Lymphoma Malignant Undifferentiated Cell Type TGLS = 6-1] | | |
| Stomach | Glandular | Lymphoma Malignant Undifferentiated Cell Type |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6079

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 851049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|--------------------------|----------------------------------|-------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS | TGLs = 1-7 | | |
| Liver | | Clear Cell Focus | Mild |
| | | Cytologic Alterations | Minimal |
| | | Cytomegaly | Mild |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEMANGIOSARC | TGLs = 5-10 | | |
| Note: HEPATOCLR ADEN | TGLs = 6,7,8,9-1+9+10+11 | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Deep Cervical | Hyperplasia | Plasma Cell, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ENLARGEMENT SEEN AT NECROPSY | | | |
| Note: HYPERPLASIA | TGLs = 2-8 | | |
| Note: HEMA CELL PROL | TGLs = 3-12 | | |
| Note: NO CORRESP LESION FOR MEDIASTINAL LYMPH NODE | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6080

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 851050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Urinary Bladder |

MISSING

| | | |
|-------------------|---------------|---------|
| Parathyroid Gland | Thyroid Gland | Trachea |
|-------------------|---------------|---------|

OBSERVATIONS

| | | | |
|--------------------------------------|-------------------|----------------------------------|----------|
| Esophagus | | | |
| Note: ESOPHAGUS EXAMINED ON SLIDE #6 | | | |
| Kidney | | Cyst | Mild |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 3,4-7+8 | | | |
| Note: HEPATOCLR ADEN TGLs = 2-9 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-10 | | | |
| Note: ECTASIA TGLs = 1-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6081

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|---------------------------------------|------------|--------------------------|--------------------|
| Kidney | | Cyst | Mild |
| | | Nephropathy | Chronic, Mild |
| Liver | | Cytologic Alterations | Mild |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-7+8 | | | |
| Lymph Node | Mandibular | Hyperplasia | Lymphoid, Mild |
| | Mesenteric | Lymphoma Malignant Mixed | |
| Note: HYPERPLASIA TGLs = 1-7 | | | |
| Skin | | Hyperkeratosis | Minimal |
| | | Inflammation | Chronic, Minimal |
| Spleen | | Hyperplasia | Lymphoid, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6082

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 851052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---------------------------------|------------|----------------------------------|--------------------|
| Gallbladder | Epithelium | Inclusion Body Intracytoplasmic | Moderate |
| Liver | | Clear Cell Focus | |
| | | Cytologic Alterations | Minimal |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 2-1 | | | |
| Note: HEMANGIOSARC TGLs = 3-7 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Marked |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 4-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| Note: HYPERPLASIA TGLs = 1-1 | | | |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6082

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851052

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6083

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | |
|--------------------------------|------------------------------|----------|
| Liver | Basophilic Focus | Moderate |
| | Clear Cell Focus | |
| | Cytologic Alterations | Mild |
| | Cytomegaly | Minimal |
| Lung | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 1-7 | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6084

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---------------------------------|------------|----------------------------------|-------------------------|
| Liver | | Cytologic Alterations | Mild |
| | | Cytomegaly | Mild |
| | | Hepatocellular Carcinoma | Single |
| Note: CYTOMEGALY TGLs = 3-1 | | | |
| Note: HEPATOCLR CARC TGLs = 2-7 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Inflammation | Granulomatous, Moderate |
| Note: INFLAMMATION TGLs = 4-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-4 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6085

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|------------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | Mild |
| | | Cytologic Alterations | Minimal |
| | | Cytomegaly | Mild |
| Note: CYTOMEGALY TGLs = 1,2-8+9 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 3-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6086

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Natural Death

DAY ON TEST: 721

HISTO: 851056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|-------------------|---------------------------------|------------------------------|
| Adrenal Gland Note: PHEOCHROM BGN TGLs = 2-6 | Medulla | Pheochromocytoma Benign | |
| Gallbladder | Lumen | Crystals | Moderate |
| | Epithelium | Hyperplasia | Marked |
| | Epithelium | Inclusion Body Intracytoplasmic | Marked |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Carcinoma | Single |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMA Note: HEPATOCLR CARC TGLs = 1-8 | | | |
| Lymph Node Note: MAND L N: NORMAL Note: ECTASIA TGLs = 3-7 | Mesenteric, Sinus | Ectasia | Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6087

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------|--------------------------|----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Moderate |
| | Medulla | Pheochromocytoma Benign | |
| Liver | | Clear Cell Focus | Mild |
| | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 3,4,5-7+8 | | | |
| Note: CYTOMEGALY TGLs = 6-9 | | | |
| Note: [HEPATOCLR ADEN] TGLs = 3,7-1+10 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Sem Ves | | | |
| Note: NOTED AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR SEMINAL VESICLE SMALLNESS | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Testes | Seminif Tub | Atrophy | Marked |
| Note: ATROPHY TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6088

TRT#: 2

SEX: Male

DAY ON TEST: 244

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Liver | Lung | Lymph Node | Nose |
| Pancreas | Pituitary Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | | |

MISSING

| | | |
|--------------------|-------------------|--------|
| Islets, Pancreatic | Parathyroid Gland | Thymus |
|--------------------|-------------------|--------|

AUTO PRECLUDES DIAG.

| | | |
|--------------------------|-------------------------|---------------------------|
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
|--------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | |
|---|----------------|--------------------------|
| Kidney | Abscess | Marked |
| | Hydronephrosis | Marked |
| Note: HYDRONEPHROSIS TGLs = 2-1 | | |
| Note: ABSCESS TGLs = 3-7 | | |
| Note: C O DEATH: RENAL ABSCESS, HYDRONEPHROSIS | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Penis | | |
| Note: NO CORRESP LESION FOR BROWN SCARS OF PENIS SEEN AT NECROPSY | | |
| Prostate | Inflammation | Chronic Active, Mild |
| Urinary Bladder | Inflammation | Chronic Active, Moderate |
| [Inflammation TGLS = 1-4] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6089

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | |
|---|------------------------|------------------|
| Harderian Gland | Adenoma | |
| Kidney | Nephropathy | Chronic, Minimal |
| Liver | Cytologic Alterations | Mild |
| | Cytomegaly | Minimal |
| | Hepatocellular Adenoma | Multiple |
| Note: CYTOMEGALY TGLs = 4-7 | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-8 | | |
| Note: NO CORRESP LESION FOR FOCUS ON LEFT LOBE OF LIVER | | |
| Note: SEEN AT NECROPSY | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6090

TRT#: 2

SEX: Male

DAY ON TEST: 516

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|-------------------------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Hepatoblastoma | Metastatic (Uncertain Primary Site) |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |

Note: C O DEATH: HEPATOCELLULAR CARCINOMA, HEPATOBLASTOMA

Note: THE HEPATOBLASTOMA WAS SEEN ONLY IN METASTASES

[Hepatocellular Carcinoma TGLS = 4-1+7]

| | | | |
|------|--|--------------------------|-------------------------------------|
| Lung | | Hepatoblastoma | Metastatic (Uncertain Primary Site) |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |

Note: HEPATOBLASTOMA TGLs = 1,2,3-2

Note: HEPATOCLR CARC TGLs = 1,2,3-2

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6091

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------------------|
| Kidney | | Cyst | Minimal |
| Liver | | Cytomegaly | Mild |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| Note: [HEPATOCLR ADEN] TGLs = 3,4,5,6,7,8-8+9+10 | | | |
| Lymph Node | Mandibular | Infiltration Cellular | Histiocyte, Moderate |
| | Mesenteric | Infiltration Cellular | Histiocyte, Marked |
| Note: INFILTRAT CELL TGLs = 1,2-7+11 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6092

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|------------------------|--------------------------|----------------------------------|----------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Harderian Gland | | Adenoma | |
| Note: ADENOMA | TGLs = 1-5 | | |
| Liver | | Cytologic Alterations | Mild |
| | | Cytomegaly | Marked |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR ADEN | TGLs = 3,4,8-1+8+10 | | |
| Note: HEPATOCLR CARC | TGLs = 3,5,6,7,9-9+10+11 | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN | TGLs = 10-2 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hematopoietic Cell Proliferation | Mild |
| Spleen | | | |
| Note: HEMA CELL PROL | TGLs = 2-7 | | |
| Stomach | Forestomach | Acanthosis | Moderate |
| | Forestomach | Hyperkeratosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6092

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851062

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ACANTHOSIS TGLs = 11-12

Note: HYPERKERATOSIS TGLs = 11-12

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6093

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Liver | | Clear Cell Focus | |
| | | Cytologic Alterations | Mild |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Marked |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3,4,5,6-1] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| [Ectasia TGLS = 1-7] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6094

TRT#: 2

SEX: Male

DAY ON TEST: 632

DOSE: 0 PPM 10-0

DISP: Moribund Sacrifice

HISTO: 851064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Islets, Pancreatic | Lung | Nose | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-----------------|----------|---|---------------|
| Adrenal Gland | Capsule | Lymphoma Malignant Undifferentiated Cell Type | |
| Epididymis | | Lymphoma Malignant Undifferentiated Cell Type | |
| Intestine Small | Duodenum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| | | Nephropathy | Chronic, Mild |
| Liver | | Hepatocellular Adenoma | Single |
| | | Lymphoma Malignant Undifferentiated Cell Type | |

Note: LYMPH MAL UNDF TGLs = 2,3-7+8

Note: HEPATOCLR ADEN TGLs = 2,3-7

Note: C O MORB: LYMPH MALIG UNDIFF; HEPATOCELLULAR ADENOMA

| | | | |
|------------|------------|---|--|
| Lymph Node | Mandibular | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |

Note: LYMPH MAL UNDF TGLs = 4-9

| | | | |
|-----------|--|---|---------|
| Mesentery | | Lymphoma Malignant Undifferentiated Cell Type | |
| Pancreas | | Lymphoma Malignant Undifferentiated Cell Type | |
| Prostate | | Lymphoma Malignant Undifferentiated Cell Type | |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |

[Lymphoma Malignant Undifferentiated Cell Type TGLs = 1-1]

| | | | |
|--------|--|---|--|
| Thymus | | Lymphoma Malignant Undifferentiated Cell Type | |
|--------|--|---|--|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6095

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Natural Death

DAY ON TEST: 711

HISTO: 851065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Kidney | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|---|-------------|--------------------------------|----------|
| Islets, Pancreatic | | Hyperplasia | Moderate |
| Liver | | Cytologic Alterations | Mild |
| | | Cytomegaly | Mild |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| Note: LYMPHOSARCOMA; HEPATOCELLULAR ADENOMAS | | | |
| Note: HEMANGIOSARC TGLs = 3-1+9+10 | | | |
| Note: C O DEATH: HEMANGIOSARCOMA, LIVER AND SPLEEN; LYMPHOCYTIC | | | |
| Note: [HEPATOCLR ADEN] TGLs = 3-9+10 | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: ALV BRON CARC TGLs = 4-2 | | | |
| Lymph Node | Inguinal | Lymphoma Malignant Lymphocytic | |
| | Mandibular | Lymphoma Malignant Lymphocytic | |
| | Mediastinal | Lymphoma Malignant Lymphocytic | |
| | Mesenteric | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6095

TRT#: 2

DOSE: 0 PPM 10-0

SEX: Male

DISP: Natural Death

DAY ON TEST: 711

HISTO: 851065

ORGAN AND ACCOUNTABLE SITE STATUS

Lymphoma Malignant Lymphocytic

Note: HEMANGIOSARC TGLs = 1-8

Note: LYMPH MAL LYMP TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6096

TRT#: 2

SEX: Male

DAY ON TEST: 624

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|-------------------|
| Heart | | Histiocytic Sarcoma | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Liver | | Histiocytic Sarcoma | |
| | | Necrosis | Coagulative, Mild |
| Note: [HISTIO SARC] TGLs = 2,3,4-7+8 | | | |
| Note: C O DEATH: HISTIOCYTIC SARCOMA | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| | | Histiocytic Sarcoma | |
| Lymph Node | Mesenteric | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 5-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLS = 1-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6097

TRT#: 2

SEX: Male

DAY ON TEST: 581

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------|
| Liver | | Cytologic Alterations | Moderate |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: C O DEATH:HEPATOCELLULAR ADENOMAS, TOXIC HEPATOPATHY [Cytomegaly TGLS = 2,3-1+8] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL [Hematopoietic Cell Proliferation TGLS = 1,4-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6098

TRT#: 2

SEX: Male

DAY ON TEST: 607

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

AUTO PRECLUDES DIAG.

| | |
|-------------|---------------------|
| Gallbladder | Stomach - Glandular |
|-------------|---------------------|

OBSERVATIONS

| | | | |
|--|---------|----------------------------------|-----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Moderate |
| Kidney | | Cyst | Mild |
| Liver | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMA [Hepatocellular Carcinoma TGLS = 1-8] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 2-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6099

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|------------------------------|----------|
| Intestine Small | Ileum | Parasite Metazoan | |
| Liver | | Basophilic Focus | Marked |
| | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR ADEN TGLs = 2-7 [Hepatocellular Carcinoma TGLS = 3-8] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | | | |
| Note: MAND L N: NORMAL | | | |
| | | | |
| Note: ECTASIA TGLs = 1-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6100

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-------------------------------------|-------------------|------------------------|----------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 2,3-7+8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6101

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|------------|--------------------|----------------|
| Liver | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Mild |
| Note: CYTOMEGALY TGLs = 1-8 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6102

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------------|------------|----------------------------------|----------|
| Liver | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Mild |
| | | Hepatocellular Adenoma | Single |
| [Hepatocellular Adenoma TGLS = 1-1] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN TGLs = 3-2 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 2-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6103

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Intestine Large - Rectum

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|----------------------------------|----------|
| Liver | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 1-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA TGLs = 2-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 2-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6104

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|------------|---|------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-9 | | | |
| Intestine Small | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 3-8 | | | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 4,5-10] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N: NORMAL | | | |
| Note: LYMPH MAL UNDF TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6105

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|------------|--------------------------------|----------|
| Adrenal Gland | Cortex | Lymphoma Malignant Histiocytic | |
| Kidney | | Lymphoma Malignant Histiocytic | |
| Note: LYMPH MAL HIST TGLs = 2-1 | | | |
| Liver | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Moderate |
| | | Lymphoma Malignant Histiocytic | |
| Note: [EOSIN FOCUS] TGLs = 3-8 | | | |
| Lymph Node | Mandibular | Lymphoma Malignant Histiocytic | |
| | Mesenteric | Lymphoma Malignant Histiocytic | |
| | Pancreatic | Lymphoma Malignant Histiocytic | |
| | Renal | Lymphoma Malignant Histiocytic | |
| Note: LYMPH MAL HIST TGLs = 4,5,6,7-3+4+7+9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Histiocytic | |
| Note: LYMPH MAL HIST TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6106

TRT#: 3

DOSE: 3 PPM 1-1

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 727

HISTO: 851806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|------------|---|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| [Hepatocellular Adenoma TGLS = 3,4,5-7+8] | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 2-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1-1 | | | |
| Thymus | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 6-2 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6107

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--------------------------|-------------------|----------------|--------------------------|
| Liver | | Cytomegaly | Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Mild |
| Thymus | | Thymoma Benign | |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6108

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: NODULE SEEN AT NECROPSY | | | |
| Note: HEPATOCLR CARC TGLs = 4-8 | | | |
| Note: NO CORRESP LESION FOR RIGHT ANTERIOR LOBE LIVER | | | |
| Note: [HEPATOCLR ADEN] TGLs = 6-10 | | | |
| [Cytomegaly TGLS = 7-9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA TGLs = 1-11 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-11 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 2-7 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6108

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851808

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Hemangiosarcoma

Note: HEMANGIOSARC TGLs = 3-4+11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6109

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---------------------------------|------------|------------------------|------------------|
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: [NECROSIS] TGLs = 2-1 | | | |
| Note: HEPATOCLR ADEN TGLs = 3-7 | | | |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: INFILTRAT CELL TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6110

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|----------|
| Adrenal Gland | Medulla | Hyperplasia | Moderate |
| Harderian Gland | | Adenoma | |
| Note: ADENOMA TGLs = 5-5 | | | |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 3-7 [Hepatocellular Carcinoma TGLS = 2,4-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Note: ECTASIA TGLs = 1-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6111

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|------------------------|--------------------------|
| Kidney | | Cyst | Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| Note: SEEN AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR MEDIAN LOBE LIVER FOCUS | | | |
| [Clear Cell Focus TGLs = 2-7] | | | |
| [Cytomegaly TGLs = 4-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 1-4 | | | |
| Note: ECTASIA TGLs = 1-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Gingiva | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6112

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|--|------------------------|----------------------|
| Kidney | | Infiltration Cellular | Lymphocyte, Moderate |
| | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | Minimal |
| | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6113

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Duodenum
Kidney
Parathyroid Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node
Pituitary Gland
Spleen
Thymus

Bone
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

OBSERVATIONS

Liver

Cytomegaly

Mild

Hepatocellular Adenoma

Single

Note: [HEPATOCLR ADEN] TGLs = 1-1

Lung

Alveolar Epith

Hyperplasia

Minimal

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6114

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Intestine Large - Rectum

OBSERVATIONS

| | | | |
|------------|-------------------------------------|---|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| | | [Hepatocellular Adenoma TGLS = 5-8] | |
| | | [Hepatocellular Carcinoma TGLS = 4-7+8] | |
| Lymph Node | Mediastinal | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| | Note: MAND L N: NORMAL | | |
| | Note: LYMPH MAL UNDF TGLs = 1,2-2+7 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Mild |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| | Note: LYMPH MAL UNDF TGLs = 3-1 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 6115 | TRT#: 3 | SEX: Male | DAY ON TEST: 729 |
| | DOSE: 3 PPM 1-1 | DISP: Terminal Sacrifice | HISTO: 851815 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---------------------------------|------------|-----------------------|------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6116

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|-------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| [Hepatocellular Carcinoma TGLS = 3-7+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-4 | | | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECROPSY | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6117

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Lung

Lymph Node

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Prostate

Salivary Glands

Spleen

Stomach - Forestomach

Stomach - Glandular

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Liver

Cytomegaly

Minimal

Hepatocellular Adenoma

Single

[Hepatocellular Adenoma TGLS = 1-1]

Lymph Node

Note: MAND L N: NORMAL

Skin

Parasite Metazoan

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6118

TRT#: 3

SEX: Male

DAY ON TEST: 468

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------|-----------------|-------|------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Heart | Kidney | Lung | Lymph Node |
| Nose | Salivary Glands | Skin | Testes |
| Trachea | | | |

MISSING

| | | |
|-------------------|-----------------|--------|
| Parathyroid Gland | Pituitary Gland | Thymus |
|-------------------|-----------------|--------|

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Epididymis | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Liver |
| Pancreas | Prostate | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Urinary Bladder | |

OBSERVATIONS

Lymph Node

Note: MAND L N: NORMAL

Testes

Note: C O DEATH: UNKNOWN

Urin Bladder

Note: PROSTATE SECTION, SLIDE #6B) BUT THERE IS NOT ENOUGH

Note: NO CORRESP LESION FOR URINARY BLADDER MASS SEEN AT NECROPSY

Note: WELL-PRESERVED TISSUE TO BE COMPLETELY CERTAIN

Note: THE TISSUES WERE BADLY AUTOLYZED; SUSPECT THERE WAS A LOWER

Note: URINARY TRACT INFLAMMATION/ INFECTION (NOTE BACTERIA IN

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6119

TRT#: 3

SEX: Male

DAY ON TEST: 79

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Kidney
Mammary Gland
Pituitary Gland
Skin
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Liver
Nose
Prostate
Spleen

Bone
Esophagus
Intestine Small - Jejunum
Lung
Pancreas
Salivary Glands
Testes

Bone Marrow
Heart
Islets, Pancreatic
Lymph Node
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

MISSING

Gallbladder Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Stomach - Glandular

Intestine Small - Duodenum

Intestine Small - Ileum

Stomach - Forestomach

OBSERVATIONS

Lymph Node
Note: MAND L N: NORMAL

Sem Ves
Note: AT NECROPSY
Note: NO CORRESP LESION FOR SEMINAL VESICLE ENLARGEMENT SEEN

Urinary Bladder
Note: C O DEATH: URINARY BLADDER INFLAMMATION
[Inflammation TGLS = 3-4]

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6120

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 3 PPM 1-1

DISP: Moribund Sacrifice

HISTO: 851820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|------------------------------|
| Harderian Gland | | Adenoma | |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Abscess | Moderate |
| | | Bacterium | |
| | | Cytomegaly | Mild |
| | | Hemangiosarcoma | |
| | | Necrosis | Coagulative, Mild |
| Note: HEMANGIOSARC TGLs = 1-7 | | | |
| Note: C O MORB: HEMANGIOSARCOMAS, SPLEEN AND LIVER | | | |
| Note: ABSCESS TGLs = 1-7 | | | |
| [Abscess TGLS = 1-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA TGLs = 3-4 | | | |
| Note: HEMA CELL PROL TGLs = 3-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 2-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6122

TRT#: 3

DOSE: 3 PPM 1-1

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 851822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|------------|---|----------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 5-7 | | | |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| Note: NO CORRESP LESION FOR MEDIAN LOBE LIVER FOCUS SEEN AT NECR [Hepatocellular Adenoma TGLS = 3-1] | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N: NORMAL | | | |
| Note: [LYMPH MAL UNDF] TGLs = 1-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: [LYMPH MAL UNDF] TGLs = 2-1 | | | |
| Tooth | Gingiva | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6123

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|------------------------------|---------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-9 | | | |
| Liver | | Cytomegaly | Minimal |
| Note: NO CORRESP LESION FOR LIVER NODULE NOTED AT NECROPSY | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 3-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 4-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6124

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|------------------------------|---------|
| Bone Note: HYPEROSTOSIS TGLs = 2-8 | Tarsal | Hyperostosis | |
| Liver | | Cytomegaly | Minimal |
| Lung Note: ALV BRON ADEN TGLs = 3-2 | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node Note: MAND L N: NORMAL Note: ECTASIA TGLs = 1-7 | Mesenteric, Sinus | Ectasia | Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6125

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|--------------------|----------------------------------|---------|
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| [Cytomegaly TGLS = 2-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Artery, Mesenteric | Thrombosis | |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| [Ectasia TGLS = 1-8] | | | |
| Skin | | Acanthosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6126

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | |
|--------|------------------------|---------------|
| Kidney | Cyst | Mild |
| | Nephropathy | Chronic, Mild |
| Liver | Cytomegaly | Minimal |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Single |

Note: NOTED AT NECROPSY

Note: NO CORRESP LESION FOR MEDIAN LOBE LIVER FOCUS

[Cytomegaly TGLS = 2-8]

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hyperplasia

Lymphoid, Marked

Note: HYPERPLASIA TGLs = 1-7

Testes

Seminif Tub

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6127

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|------------------------------|------------------|
| Eye | | Synechia | Marked |
| Harderian Gland | | Adenoma | |
| Note: ADENOMA TGLs = 2-7 | | | |
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL NODULES NOTED AT NECROPSY | | | |
| Islets, Pancreatic | | Hyperplasia | Mild |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 1-2 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 4-9 | | | |
| Spleen | | Hyperplasia | Lymphoid, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6128

TRT#: 3

SEX: Male

DAY ON TEST: 712

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|------------|---|----------|
| Bone | Femur | Osteopetrosis | Mild |
| Intestine Small | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Jejunum | Ulcer | Moderate |
| Note: C O DEATH: LYMPH MAL UNDIFF, JEJUNUM | | | |
| Note: LYMPH MAL UNDF TGLs = 3-4 | | | |
| Note: ULCER TGLs = 3-4 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Single |
| Note: [HEPATOCLR ADEN TGL = 4,5-1] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 1-7 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6129

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------|
| Liver | | Clear Cell Focus | Moderate |
| | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3-1+7] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6130

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------------|
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL NODULE NOTED AT NECROPSY | | | |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| [Cytomegaly TGLS = 1-7] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 2-9 | | | |
| [Hematopoietic Cell Proliferation TGLS = 2-9] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6131

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|----------|------------------------|----------|
| Intestine Small | Duodenum | Adenoma | |
| Note: ADENOMA TGLs = 3-8 | | | |
| Kidney | | Cyst | Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Moderate |
| Note: CYTOMEGALY TGLs = 2-7 | | Hepatocellular Adenoma | Multiple |
| [Clear Cell Focus TGLS = 1-7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hemangiosarcoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6132

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-----------------------------------|-------------------|------------------------|----------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Stomach | Glandular, Mucosa | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6133

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

Intest Small
Note: NO CORRESP LESION FOR JEJUNAL NODULE SEEN AT NECROPSY

| | | |
|---|--------------------|--------|
| Liver | Clear Cell Focus | |
| | Cytomegaly | Mild |
| | Eosinophilic Focus | Marked |
| Note: [EOSIN FOCUS] TGLs = 2,4-1+7 [Clear Cell Focus TGLS = 3-1] | | |

Lymph Node
Note: MAND L N: NORMAL

| | | |
|--------|-------------------|-------------------|
| Skin | Acanthosis | Mild |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Spleen | Hyperplasia | Lymphoid, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6134

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

Intest Small
Note: NO CORRESP LESION FOR DUODENAL NODULE NOTED AT NECROPSY

| | | | |
|-----------------------------------|------------|----------------------------------|----------|
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| [Basophilic Focus TGLS = 3,4-1] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 2-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6135

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|------------------|
| Liver | | Cytomegaly | Mild |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEMANGIOSARC TGLs = 5-7 [Cytomegaly TGLS = 4-8] [Hepatocellular Adenoma TGLS = 1,3,5-7+10] [Hepatocellular Carcinoma TGLS = 1,2-9] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: ECTASIA TGLs = 6-11 Note: HEMA CELL PROL TGLs = 6-11 Note: MAND L N: NORMAL Note: INFILTRAT CELL TGLs = 6-11 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6136

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|--------------------|
| Adrenal Gland | Medulla | Hyperplasia | Minimal |
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 3-7 | | | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| | | Eosinophilic Focus | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR ADEN TGLs = 6-10 [Clear Cell Focus TGLS = 4-11] [Hepatocellular Carcinoma TGLS = 5-9] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 2-12 | | | |
| Note: ECTASIA TGLs = 2-12 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Moderate |
| Spleen | | | |
| Note: HYPERPLASIA TGLs = 1-8 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6136

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851836

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6137

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-------------------------------|--------|------------------------------|----------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7 | | | |
| Liver | | Cytomegaly | Mild |
| [Cytomegaly TGLS = 3-9] | | Hepatocellular Adenoma | Single |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Salivary Glands | Duct | Fibrosis | Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 2-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6138

TRT#: 3

SEX: Male

DAY ON TEST: 662

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------------------|
| Kidney | | Histiocytic Sarcoma | |
| Liver | | Hepatocellular Adenoma | Single |
| | | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 1-8 | | | |
| Note: BRONCHIOLO-ALVEOLAR ADENOMAS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA; HISTIO SARCOMA, LIVER; | | | |
| Note: [HEPATOCLR ADEN] TGLs = 1,2-8 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| Note: ALV BRON ADEN TGLs = 3-2+7 | | | |
| Lymph Node | | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| | Mesenteric | | |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 4-4 | | | |
| Note: HEMA CELL PROL TGLs = 4-4 | | | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6139

TRT#: 3

SEX: Male

DAY ON TEST: 307

DOSE: 3 PPM 1-1

DISP: Moribund Sacrifice

HISTO: 851839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | |
|---------------------------------------|--------------------------------------|-----------------|
| Brain | Bacterium Inflammation | Acute, Moderate |
| Note: C O MORB: ENCEPHALITIS | | |
| Note: INFLAMMATION TGLs = 2-3 | | |
| Note: BACTERIUM TGLs = 2-3 | | |
| Liver | Cytomegaly Hepatocellular Adenoma | Mild Single |
| [Hepatocellular Adenoma TGLS = 1-1] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6140

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|--------------------------|-------------------------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-8+9 | | | |
| Harderian Gland | | Adenoma | |
| Note: ADENOMA TGLs = 2-5 | | | |
| Liver | Bile Duct | Cytomegaly | Minimal |
| | | Dilatation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| [Hepatocellular Adenoma TGLS = 5,7-1+11+12] | | | |
| [Hepatocellular Carcinoma TGLS = 4,6-7+10] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 3-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6141

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Heart

Kidney

Lung

Nose

Pituitary Gland

Prostate

Salivary Glands

Stomach - Forestomach

Stomach - Glandular

Testes

Trachea

Urinary Bladder

MISSING

Islets, Pancreatic

Pancreas

Thymus

AUTO PRECLUDES DIAG.

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lymph Node

Parathyroid Gland

Spleen

Thyroid Gland

OBSERVATIONS

Liver

Hemangiosarcoma

Note: C O DEATH: HEMANGIOSARC

Note: [HEMANGIOSARC] TGLs = 1-1

Lymph Node

Note: MAND L N: AUTOLYSIS PRECL DIAG

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Parasite Metazoan

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6142

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|--------|--------------------------------|---------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7+8 | | | |
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| [Hepatocellular Adenoma TGLS = 6-10] | | | |
| [Hepatocellular Carcinoma TGLS = 5-9] | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: ALV BRON CARC TGLs = 3-11 | | | |
| Lymph Node | | | |
| Note: NO CORRESP LESION FOR ENLARGED MES L NODE SEEN AT NECROPSY | | | |
| Note: MAND L N: NORMAL | | | |
| Note: NO CORRESP LESION FOR ENLARGED MAND L N SEEN AT NECROPSY | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6143

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7+8 | | | |
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL NODULE SEEN AT NECROPSY | | | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| [Clear Cell Focus TGLS = 7-9] | | | |
| [Hepatocellular Adenoma TGLS = 6-10] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN TGLs = 4,5-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| Note: ECTASIA TGLs = 2-12 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 2-12 | | | |
| Note: INFILTRAT CELL TGLs = 2-12 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6143

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851843

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6144

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|-------------------------------|-------------------|-------------------|--------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7 | | | |
| Liver | | Clear Cell Focus | |
| [Cytomegaly TGLS = 4-9] | | Cytomegaly | Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mandibular | Hyperplasia | Lymphoid, Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 2-10 | | | |
| Note: ECTASIA TGLs = 2-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6145

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------------|------------|-------------------|----------------|
| Liver | | Cytomegaly | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6146

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| | | Fatty Change | Minimal |
| Note: CLEAR CL FOCUS TGLs = 2-1 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6147

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|------------|------------------------------|--------------------|
| Harderian Gland | | Adenoma | |
| Note: ADENOMA TGLs = 2-7 | | | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Minimal |
| Note: NO CORRESP LESION FOR MEDIAN LOBE FOCUS AND LEFT | | | |
| Note: LOBE NODULE SEEN IN LIVER AT NECROPSY | | | |
| [Clear Cell Focus TGLS = 8-1] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| Note: ALV BRON ADEN TGLs = 5-2 | | | |
| Note: INFILTRAT CELL TGLs = 3,4-2 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 1-7 | | | |
| Skin | | Acanthosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6148

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

Epididymis

Note: NO CORRESP LESION FOR ENLARGED EPIDIDYIMIDES SEEN AT TRIM

Gallbladder

Epithelium

Inclusion Body Intracytoplasmic

Mild

Intestine Large

Rectum

Parasite Metazoan

Liver

Cytomegaly

Mild

Fatty Change

Minimal

Hepatocellular Adenoma

Single

Note: HEPATOCLR ADEN TGLs = 1-7

Lymph Node

Note: MAND L N: NORMAL

Mammary Gland

Duct

Ectasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6149

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|----------------------------------|--------------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Bone | Coccygeal | Fracture Healed | |
| Note: FRACT HEALED TGLs = 1-8 | | | |
| Liver | | Cytomegaly | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Minimal |
| Note: HEMA CELL PROL TGLs = 2-7 | | | |
| Note: ECTASIA TGLs = 2-7 | | | |
| Note: INFILTRAT CELL TGLs = 2-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6150

TRT#: 3

SEX: Male

DAY ON TEST: 597

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|--------------------|--------|
| Islets, Pancreatic | Thymus |
|--------------------|--------|

OBSERVATIONS

| | | |
|---|-------------|---|
| Adrenal Gland | Capsule | Lymphoma Malignant Undifferentiated Cell Type |
| Liver | | Lymphoma Malignant Undifferentiated Cell Type |
| Note: C O DEATH: LYMPHOMA MALIG UNDIFF, MULTIPLE ORGANS [Lymphoma Malignant Undifferentiated Cell Type TGLS = 3,4,5-1] | | |
| Lymph Node | Mediastinal | Lymphoma Malignant Undifferentiated Cell Type |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type |
| | Renal | Lymphoma Malignant Undifferentiated Cell Type |
| Note: LYMPH MAL UNDF TGLs = 2,6-8+9 | | |
| Note: MAND L N: NORMAL | | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type |
| Note: LYMPH MAL UNDF TGLs = 1-7 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6151

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------------|---|-----------------------|
| Epididymis | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF | TGLs = 10-7 | | |
| Intestine Large | Cecum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Cecum | Ulcer | Mild |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC | TGLs = 1,5,6,7-9 | | |
| [Hepatocellular Adenoma TGLs = 1,2,3,4,8-1+9] | | | |
| Lymph Node | Mandibular | Hyperplasia | Plasma Cell, Moderate |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: HYPERPLASIA | TGLs = 11-8 | | |
| Note: LYMPH MAL UNDF | TGLs = 12-10 | | |
| Prostate | | Lymphoma Malignant Undifferentiated Cell Type | |
| Seminal Vesicle | | Lymphoma Malignant Undifferentiated Cell Type | |
| Skeletal Muscle | Abdominal | Lymphoma Malignant Undifferentiated Cell Type | |
| Skin | | Acanthosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6151

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851441

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperkeratosis

Minimal

Parasite Metazoan

Spleen

Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECR

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6152

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|--------------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3-1+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6153

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|--------------------------|--|---|
| Intest Small Note: SEEN AT NECROPSY Note: NO CORRESP LESION FOR ILEAL AND JEJUNAL NODULES | | | |
| Liver Note: HEPATOCLR ADEN TGLs = 5,6,7-7 Note: HEPATOCLR CARC TGLs = 5,7-7 | | Cytomegaly Fatty Change Hepatocellular Adenoma Hepatocellular Carcinoma | Moderate Minimal Multiple Single |
| Lymph Node Note: MAND L N: NORMAL Note: HEMA CELL PROL TGLs = 2-8 Note: INFILTRAT CELL TGLs = 2-8 | Mesenteric Mesenteric | Hematopoietic Cell Proliferation Infiltration Cellular | Mild Histiocyte, Mild |
| Preputial Gland Note: ABSCESS TGLs = 1-9 | | Abscess | Moderate |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Mild Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6154

TRT#: 4

SEX: Male

DAY ON TEST: 720

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|----------|--------|
| Prostate | Thymus |
|----------|--------|

OBSERVATIONS

| | | | |
|-------------|---------|--------------------------|-----------------------|
| Bone Marrow | Femoral | Hemangiosarcoma | |
| | Sternal | Hemangiosarcoma | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |

Note: HEPATOCLR ADEN TGLs = 2,3,4-9

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 2,3,4-9+10

| | | | |
|------------|-------------------|----------------------------------|---------------------|
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |

Note: MAND L N: NORMAL

Note: HEMA CELL PROL TGLs = 1-7

Note: ECTASIA TGLs = 1-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|-------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 6154 | TRT#: 4 | SEX: Male | DAY ON TEST: 720 |
| | DOSE: 10 PPM 0-3 | DISP: Moribund Sacrifice | HISTO: 851444 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|------------|----------------------------------|---------|
| Prostate | | | |
| Note: PROSTATE MISSING, BUT AMPULLARY GL PRESENT & NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hemangiosarcoma | |
| | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL | TGLs = 5-8 | | |
| Note: HEMANGIOSARC | TGLs = 5-8 | | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6155

TRT#: 4

SEX: Male

DAY ON TEST: 687

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|------------|---------------------------|-------------------|
| Harderian Gland | Duct | Dilatation | Moderate |
| | | Hyperplasia | Nodular, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| Note: HYPERPLASIA TGLs = 3-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Cyst Epithelial Inclusion | |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6155

TRT#: 4

SEX: Male

DAY ON TEST: 687

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851445

ORGAN AND ACCOUNTABLE SITE STATUS

Parasite Metazoan

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6156

TRT#: 4

SEX: Male

DAY ON TEST: 723

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; Note: TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 6-1+7] [Hepatocellular Carcinoma TGLS = 6-7] | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| Note: ALV BRON CARC TGLs = 2,3-2 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| Note: MAND L N: NORMAL Note: HYPERPLASIA TGLs = 4-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Hyperplasia | Lymphoid, Mild |
| [Hematopoietic Cell Proliferation TGLS = 1-1] [Hyperplasia TGLS = 1-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6156

TRT#: 4

SEX: Male

DAY ON TEST: 723

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851446

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Note: NO CORRESP LESION FOR SMALLNESS OF THYMUS NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6157

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|----------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| | | Sarcoma | |
| Note: [SARCOMA] TGLs = 2,3-1 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3-1 | | | |
| [Hepatocellular Carcinoma TGLS = 2,3,4,5-7+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL | | | |
| [Ectasia TGLS = 1-8] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6158

TRT#: 4

SEX: Male

DAY ON TEST: 160

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Lung
Prostate
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Nose
Salivary Glands
Testes

Bone
Esophagus
Intestine Small - Duodenum
Pancreas
Skin
Thymus

Bone Marrow
Gallbladder
Islets, Pancreatic
Parathyroid Gland
Stomach - Forestomach
Thyroid Gland

MISSING

Intestine Small - Ileum

Lymph Node

Pituitary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

Urinary Bladder

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver
Lymph Node

Myocardium
Colon

Mineralization
Parasite Metazoan
Nephropathy

Multifocal, Mild
Chronic, Moderate

Cytomegaly

Mild

Note: C O DEATH: GLOMERULONEPHRITIS; TOXIC HEPATOPATHY

Spleen

Depletion Lymphoid

Mild

Note: DEPLET LYMPH TGLs = 1-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6159

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 1,2,3,4-8+9 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+8 | | | |
| Note: CYTOMEGALY TGLs = 5,6-9+10 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 8-7 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 7-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6160

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-----------------|----------------------------------|------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 1,2,3,4-1+7] | | | |
| Lung | Interstitialium | Inflammation | Chronic, Minimal |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 5-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Mild |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6161

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------------|------------------------|--------------------------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3,4,5-1+7+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6162

TRT#: 4

DOSE: 10 PPM 0-3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 851452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|------------------------|--|----------------------------------|---------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | Mild |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 4,5,6,7,9,10,11-1+9+10] | | |
| | [Hepatocellular Carcinoma TGLS = 4,5,6,8-9+11] | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN | TGLs = 2,3-7+8 | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA | TGLs = 1-8 | | |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL | TGLs = 1-8 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6163

TRT#: 4

SEX: Male

DAY ON TEST: 604

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Intestine Small - Duodenum

OBSERVATIONS

| | | | |
|--|-------|---|----------|
| Intestine Large | Cecum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Cecum | Ulcer | Marked |
| Note: LYMPH MAL UNDF TGLs = 1-8 | | | |
| Note: ULCER TGLs = 1-8 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: UNDIFFERENTIATED LYMPHOSARCOMA AND ULCER OF CECUM | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3-7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6164

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|------------|--|---|
| Intestine Small Note: ULCER TGLs = 3-11 Note: NO CORRESP LESION FOR JEJUNAL LESIONS NOTED AT NECROPS | Ileum | Ulcer | Minimal |
| Liver Note: HEPATOCLR CARC TGLs = 5,6,7,8-8 [Hepatocellular Adenoma TGLS = 5,6,7,9,10-8+9+10] | | Cytomegaly Eosinophilic Focus Fatty Change Hepatocellular Adenoma Hepatocellular Carcinoma | Moderate Moderate Minimal Multiple |
| Lung Note: ALV BRON ADEN TGLs = 1-7 | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node Note: HEMA CELL PROL TGLs = 2-10 Note: MAND L N: NORMAL | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6165

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------|---|------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 1,2,3,6-1+7+8] | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN | TGLs = 4,5-2 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6166

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|------------------|
| Liver | | Cyst | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 2,3,5,6-1+7+8+10 | | | |
| Note: HEPATOCLR CARC TGLs = 2,3,4,7-9+10 | | | |
| [Cyst TGLS = 6-8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: ECTASIA TGLs = 1-11 | | | |
| Note: INFILTRAT CELL TGLs = 1-11 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6167

TRT#: 4

SEX: Male

DAY ON TEST: 604

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

AUTO PRECLUDES DIAG.

| | |
|-------------------------|---------------------------|
| Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------|--------------|--------------------------|-------------------|
| Bone Marrow | Femoral | Hemangiosarcoma | |
| Heart | Coron Artery | Inflammation | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: HEPATOCLR CARC TGLs = 3,4,5-7

Note: HEPATOCLR ADEN TGLs = 3,4,5-7

Note: HEMANGIOSARC TGLs = 3,4,5-7

Note: HEMANGIOSARCOMA, MULTIPLE ORGANS; TOXIC HEPATOPATHY

| | | | |
|------------|------------|----------------------------------|---------|
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
|------------|------------|----------------------------------|---------|

Note: MAND L N: NORMAL

Note: HEMA CELL PROL TGLs = 6-10

| | | | |
|--------|--|-----------------|--|
| Spleen | | Hemangiosarcoma | |
|--------|--|-----------------|--|

Note: HEMANGIOSARC TGLs = 1-8

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6167

TRT#: 4

SEX: Male

DAY ON TEST: 604

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851457

ORGAN AND ACCOUNTABLE SITE STATUS

Urin Bladder

Note: NO CORRESP LESION FOR ENLARGED UR BLADD SEEN AT NECROPSY

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6168

TRT#: 4

SEX: Male

DAY ON TEST: 561

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|--------|----------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Lung | Artery | Thrombosis | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Amyloid Deposition | Mild |
| | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6169

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------|----------------------------------|---|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | [Hepatocellular Adenoma TGLS = 1,2,4,6,7-1+7+8+9] | |
| | | [Hepatocellular Carcinoma TGLS = 1,2,3,5,6-8+9] | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Note: HEMA CELL PROL TGLs = 8-10 | | |
| | Note: MAND L N: NORMAL | | |
| | Note: ECTASIA TGLs = 8-10 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6170

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------|------------------------------|------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Fatty Change TGLS = 3,4-1+9] | | | |
| [Hepatocellular Adenoma TGLS = 3,4-9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 2-2 | | | |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 1-8 | | | |
| Skin | Subcut Tiss | Fibrosarcoma | |
| Note: FIBROSARC TGLs = 5-7 | | | |
| Spleen | | Hemangiosarcoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6171

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Gallbladder

OBSERVATIONS

Intest Small

Note: NO CORRESP LESION FOR ILEAL NODULES NOTED AT NECROPSY

Liver

| | |
|--------------------------|-------------------|
| Clear Cell Focus | Mild |
| Cytomegaly | Moderate |
| Eosinophilic Focus | Moderate |
| Fatty Change | Minimal |
| Hepatocellular Adenoma | Multiple |
| Hepatocellular Carcinoma | Single |
| Necrosis | Coagulative, Mild |

Note: HEPATOCLR CARC TGLs = 6,7,8,10-1+9+11
[Necrosis TGLS = 6,7,9-1+10]

Lung

Note: HEPATOCLR CARC TGLs = 1,2-2

Hepatocellular Carcinoma Metastatic (Liver)

Lymph Node

Mesenteric

Infiltration Cellular Histiocyte, Mild

Note: NO SECTION OF ENLARGED MEDIASTINAL LYMPH NODE WAS

Note: INFILTRAT CELL TGLs = 4-8

Note: TAKEN; PROBABLY THE THYMUS WAS MISTAKEN FOR THE

Note: MAND L N: NORMAL

Note: MESENTERIC LYMPH NODE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:57
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6171

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851461

ORGAN AND ACCOUNTABLE SITE STATUS

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Parasite Metazoan

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6172

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|------------------|
| Kidney | | Cyst | Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 3,4-1 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: FOR THE MEDIASTINAL LYMPH NODE | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Note: SEEN AT NECROPSY; PROBABLY THE THYMUS WAS MISTAKEN | | | |
| Note: NO CORRESP LESION FOR ENLARGED MEDIASTINAL LYMPH NODE | | | |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6173

TRT#: 4

SEX: Male

DAY ON TEST: 716

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | |
|--------------------------|-------------------|--------|
| Intestine Large - Rectum | Parathyroid Gland | Thymus |
|--------------------------|-------------------|--------|

OBSERVATIONS

| | | | |
|---|-------|------------------------|-----------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Pulp | Inflammation | Suppurative, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6174

TRT#: 4

DOSE: 10 PPM 0-3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 851464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|---------------------------|--------------------------|-------------------|
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL NODULE NOTED AT NECROPSY | | | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | | |
| Note: HEPATOCLR CARC | TGLs = 4,5,6,8-1+12+13 | | |
| Note: HEPATOCLR ADEN | TGLs = 4,5,7,9,10-1+12+14 | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| | Pancreatic | Hyperplasia | Lymphoid, Marked |
| | Renal | Hyperplasia | Lymphoid, Marked |
| Note: HYPERPLASIA | TGLs = 3,11,12-8+9+11 | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6175

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|------------|--------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 2,3,4,6-1+7+8 [Hepatocellular Carcinoma TGLS = 2,3,5-8] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Minimal |
| Note: HYPERPLASIA TGLs = 1-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6176

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|---------------------|
| Intestine Small | Ileum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| <p>Note: HEPATOCLR CARC TGLs = 2,3,5,9-1+7+11 Note: CYTOMEGALY TGLs = 7-9 [Hepatocellular Adenoma TGLS = 2,3,4,6,8-1+7+8+10]</p> | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Minimal |
| <p>Note: MAND L N: NORMAL Note: INFILTRAT CELL TGLs = 1-4 Note: HEMA CELL PROL TGLs = 1-4</p> | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6177

TRT#: 4

SEX: Male

DAY ON TEST: 607

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------------------|---------------------------|
| Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--|-------------|----------------------------------|----------|
| Liver | | Basophilic Focus | Moderate |
| | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: HEPATOCLR ADEN TGLs = 2-8 | | | |
| Note: SARCOMA OF SKIN | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | Subcut Tiss | Sarcoma | |
| Note: [SARCOMA] TGLs = 1-7 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6178

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|------------------------|---|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 2,3,4,5,6-1+7] | | |
| | [Hepatocellular Carcinoma TGLS = 2,3,4,5,6-1+7] | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA | TGLs = 1-4 | | |
| Note: HEMA CELL PROL | TGLs = 1-4 | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6179

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Salivary Glands

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|----------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 4,5,6,7,8-1+7] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN TGLs = 1,2-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 9-4 | | | |
| Note: ECTASIA TGLs = 9-4 | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6180

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 4,5-7+8 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3,5,6-1+7+8 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6181

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-----------------------------------|------------|----------------------------------|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| | | | |
| [Necrosis TGLS = 4,5,7-9] | | | |
| [Thrombosis TGLS = 4,5,6,8-8+9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 3-7 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 2-10 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-10 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6182

TRT#: 4

SEX: Male

DAY ON TEST: 587

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------|----------------------------|-----------------|-----------------------|
| Bone | Brain | Epididymis | Esophagus |
| Heart | Intestine Small - Duodenum | Kidney | Lung |
| Nose | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | |

MISSING

| | | | |
|-------------|------------|-----------------|--------|
| Gallbladder | Lymph Node | Pituitary Gland | Thymus |
|-------------|------------|-----------------|--------|

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Liver | Pancreas | Parathyroid Gland |
| Skin | Spleen | Thyroid Gland | Urinary Bladder |

OBSERVATIONS

Liver

Note: NO CORRESP LESION FOR ENLARGED LIVER NOTED AT NECROPSY,

Note: BECAUSE TISSUE IS TOO AUTOLYZED FOR HISTOPATH ANALYSIS

Lymph Node

Note: MAND L N: MISSING

Testes

Note: C O DEATH: UNKNOWN

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6183

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | | |
| | | | |
| | | | |
| [Hepatocellular Adenoma TGLS = 3,4,5,6-7+8+9] | | | |
| [Hepatocellular Carcinoma TGLS = 3,4,5-9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 2-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1-10 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6184

TRT#: 4

SEX: Male

DAY ON TEST: 702

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------|------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: [HEMANGIOSARC] TGLs = 3,4,5-9+10 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, HEMANGIOSARCOMA; | | | |
| Note: TOXIC HEPATOPATHY; HISTIOCYTIC SARCOMA | | | |
| [Hepatocellular Adenoma TGLS = 3,4,5-1+9+10] | | | |
| Lymph Node | Mesenteric | Histiocytic Sarcoma | |
| Note: MAND L N: NORMAL | | | |
| Note: [HISTIO SARC] TGLs = 2-8 | | | |
| Skin | Subcut Tiss | Sarcoma | |
| Spleen | | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6185

TRT#: 4

SEX: Male

DAY ON TEST: 505

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Duodenum
Lung
Parathyroid Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node
Pituitary Gland
Spleen
Thymus

Bone
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Gallbladder
Intestine Large - Rectum
Kidney
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

MISSING

Islets, Pancreatic

OBSERVATIONS

Liver

Cytomegaly
Hepatocellular Adenoma
Necrosis

Moderate
Multiple
Coagulative, Mild

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Note: [HEPATOCLR ADEN] TGLs = 1,2-7

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6186

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR ADEN TGLs = 2,3,4,6-1+7+9 [Necrosis TGLs = 2,3,5-8] | | | |
| Lung | Interstitialium | Inflammation | Chronic, Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-10 | | | |
| Note: HEMA CELL PROL TGLs = 1-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6187

TRT#: 4

SEX: Male

DAY ON TEST: 667

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------|---|-------------------|
| Intestine Small | Ileum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Ileum | Ulcer | Marked |
| Note: LYMPH MAL UNDF TGLs = 1-8 | | | |
| Note: ULCER TGLs = 1-8 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| Note: ULCER OF ILEUM | | | |
| Note: HEPATOCLR CARC TGLs = 2,3-1+7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY; UNDIFFERENTIATED LYMPHOSARCOMA AND | | | |
| [Hepatocellular Carcinoma TGLS = 2,3-1+7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6187

TRT#: 4

SEX: Male

DAY ON TEST: 667

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851477

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6188

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|--------------------|--------------------------|-------------------|
| Adrenal Gland Note: PHEOCHROM BGN TGLs = 2-6 | Bilateral, Medulla | Pheochromocytoma Benign | |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney Note: [NEPHROPATHY] TGLs = 1-1 | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Cytomegaly TGLs = 8-10] | | | |
| [Hepatocellular Adenoma TGLs = 5,7,9-9+11] | | | |
| [Hepatocellular Carcinoma TGLs = 5,6-8] | | | |
| Lymph Node Note: COULD BE FOUND AT TRIM Note: NO SECTION OF THE ENLARGED MESENTERIC LYMPH NODE Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6188

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851478

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Parasite Metazoan
Hematopoietic Cell Proliferation
Hyperplasia

Minimal
Lymphoid, Mild

Note: HEMA CELL PROL TGLs = 3-7

Note: HYPERPLASIA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6189

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|---------------------------------|---|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | Single |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEMANGIOSARC TGLs = 3,4-1 [Cytomegaly TGLS = 3,4-1] [Hepatocellular Carcinoma TGLS = 3,4,5,6,7-1+7+8+9] | | | |
| Lymph Node | Mesenteric, Sinus Mesenteric | Ectasia Hematopoietic Cell Proliferation | Mild Minimal |
| Note: MAND L N: NORMAL Note: HEMA CELL PROL TGLs = 1-4 Note: ECTASIA TGLs = 1-4 | | | |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Spleen | | | |
| Note: NO COORESP LESION FOR ENLARGED SPLEEN NOTED AT NECROPSY | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6190

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|----------------|------------------------|----------|
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 1,2,3-1+7+8] | | | |
| Lung | Alveolar Epith | Hyperplasia | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:57

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6191

TRT#: 4

SEX: Male

DAY ON TEST: 723

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Seminal Vesicle |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | |
|--|--|---|
| Kidney | Bacterium Inflammation | Acute, Moderate |
| Note: BACTERIUM TGLs = 3-1 [Inflammation TGLS = 3-1] | | |
| Liver | Cytomegaly Eosinophilic Focus Hepatocellular Adenoma Necrosis | Mild Moderate Multiple Coagulative, Moderate |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; Note: PYELONEPHRITIS [Hepatocellular Adenoma TGLS = 4,5,6-7] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Prostate | Inflammation | Suppurative, Mild |
| Sem Ves | | |
| Note: NO CORRESP LESION FOR SEM VES ENLARGEMENT DEEN AT NECROPSY | | |
| Spleen | Depletion Lymphoid | Mild |
| Urin Bladder | | |
| Note: NO CORRESP LESION FOR UR BLADDER ENLARGEMENT SEEN AT NECR | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6192

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|--------------|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3,4,5-1+8] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | Sebaceous Gl | Acanthosis | Minimal |
| | | Ectasia | Moderate |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6193

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR CARC TGLs = 2,3,4,5-8 [Hepatocellular Adenoma TGLs = 2,3,4,6-1+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-7 Note: ECTASIA TGLs = 1-7 Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6194

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|-----------------------------------|------------|------------------------|--------------------|
| Intestine Small | Jejunum | Hyperplasia | Lymphoid, Marked |
| Note: HYPERPLASIA TGLs = 3-4 | Jejunum | Ulcer | Moderate |
| Note: ULCER TGLs = 3-4 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 4-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hyperplasia | Lymphoid, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6195

TRT#: 4

SEX: Male

DAY ON TEST: 560

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|---|------------|------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: MANDIB L NODE ABSCESS | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-7] | | | |
| Lymph Node | Mandibular | Abscess | Moderate |
| | Mandibular | Bacterium | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6196

TRT#: 4

SEX: Male

DAY ON TEST: 706

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | |
|-------|--------------------------|-------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Mild |

Note: HEPATOCLR ADEN TGLs = 3,4,5-1+9+10

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 3,4,5-1+9

Note: TOXIC HEPATOPATHY; UNDIFFERENTIATED LYMPHOSARCOMA

| | | |
|------------|------------|---|
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type |
| | Pancreatic | Lymphoma Malignant Undifferentiated Cell Type |

Note: MAND L N: NORMAL

Note: LYMPH MAL UNDF TGLs = 2,6-7+8

| | |
|--------|---|
| Spleen | Lymphoma Malignant Undifferentiated Cell Type |
|--------|---|

Note: LYMPH MAL UNDF TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6197

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|------------|------------------------|------------------|
| Heart | | Hemangiosarcoma | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3-1] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| | Mandibular | Infiltration Cellular | Histiocyte, Mild |
| Note: INFILTRAT CELL TGLs = 1-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6198

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|------------|--------------------------|----------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Hepatocellular Adenoma TGLS = 1,2-1] | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-7] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 4-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6199

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Moderate |
| Liver | | Clear Cell Focus | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 1,2-1+7] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: INFILTRAT CELL TGLs = 3-8 | | | |
| Note: HEMA CELL PROL TGLs = 3-8 | | | |
| Note: MAND L N:NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6200

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------|------------|---|-------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| | | [Hepatocellular Adenoma TGLS = 4,5,7,9-8+11] | |
| | | [Hepatocellular Carcinoma TGLS = 4,5,6,7,8,9-8+9+10+11] | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mandibular | Hyperplasia | Lymphoid, Mild |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| | | Note: HYPERPLASIA TGLs = 1-7 | |
| | | [Hematopoietic Cell Proliferation TGLS = 2-8] | |
| | | [Infiltration Cellular TGLS = 2-8] | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6200

TRT#: 4

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851490

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6201

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|-------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 3,4,5-1+8 [Hepatocellular Adenoma TGLS = 3,4,5-1+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mandibular | Hyperplasia | Plasma Cell, Mild |
| Note: ECTASIA TGLs = 1-9 | | | |
| Note: HYPERPLASIA TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6202

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|----------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| [Clear Cell Focus TGLs = 3,4,5,6,7-1+7+8+9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 2-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 1-10 | | | |
| Note: ECTASIA TGLs = 1-10 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6203

TRT#: 5

SEX: Male

DAY ON TEST: 716

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|-------------|---------|--------------------------|----------------------|
| Bone Marrow | Sternal | Hemangiosarcoma | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |

Note: MULTIPLE ORGANS

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS; HEMANGIOSARCOMAS,

Note: C O MORB*: HEPATOCELLULAR ADENOMAS, CARCINOMAS:

Note: [HEPATOCLR ADEN] TGLs = 2,3,4-8

Note: HEPATOCLR CARC TGLs = 2,3,4-8

| | | | |
|------------|-------------------|---------|----------|
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
|------------|-------------------|---------|----------|

Note: MAND L N: NORMAL

| | | | |
|------|--|------------|---------|
| Skin | | Acanthosis | Minimal |
|------|--|------------|---------|

| | | | |
|--|-------------|-----------------|--|
| | Subcut Tiss | Hemangiosarcoma | |
|--|-------------|-----------------|--|

| | | | |
|--|--|----------------|---------|
| | | Hyperkeratosis | Minimal |
|--|--|----------------|---------|

| | | | |
|--|--|-------------------|--|
| | | Parasite Metazoan | |
|--|--|-------------------|--|

Note: HEMANGIOSARC TGLs = 1-7

| | | | |
|---------|-----------|--------------|------------------|
| Stomach | Glandular | Inflammation | Chronic, Minimal |
|---------|-----------|--------------|------------------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6203

TRT#: 5

SEX: Male

DAY ON TEST: 716

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851503

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6204

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|------------------------|--------------------|--------------------------|---------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Oval Cell | Hyperplasia | Marked |
| Note: HEPATOCLR ADEN | TGLs = 1,4-7 | | |
| Note: [HYPERPLASIA] | TGLs = 1,2,4-7 | | |
| Note: HEPATOCLR CARC | TGLs = 1,2,3,4-1+7 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6205

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|--------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Hepatocellular Adenoma TGLS = 3,4,5,6-1+7] | | | |
| [Hepatocellular Carcinoma TGLS = 3,4,6-7] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 2-4 | | | |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Moderate |
| Spleen | | | |
| Note: HYPERPLASIA TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6206

TRT#: 5

SEX: Male

DAY ON TEST: 692

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Ileum
Pancreas
Trachea

Bone
Heart
Islets, Pancreatic
Salivary Glands

Bone Marrow
Intestine Large - Cecum
Lung
Stomach - Forestomach

Brain
Intestine Small - Duodenum
Nose
Thymus

MISSING

Adrenal Gland - Medulla
Intestine Small - Jejunum
Testes

Epididymis
Kidney
Thyroid Gland

Gallbladder
Parathyroid Gland
Urinary Bladder

Intestine Large - Rectum
Prostate

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Intestine Large Colon
Note: NO CORRESP LESION FOR CECAL NODULE NOTED AT TRIM
Liver

Parasite Metazoan

Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma

Moderate
Minimal
Multiple
Single

Note: TOXIC HEPATOPATHY; UNDIFFERENTIATED LYMPHOSARCOMA
Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;
[Hepatocellular Adenoma TGLS = 1-1]
[Hepatocellular Carcinoma TGLS = 1-1]

Lymph Node Mesenteric
Note: MAND L N: MISSING
Note: LYMPH MAL UNDF TGLs = 2-7

Lymphoma Malignant Undifferentiated Cell Type

Skin

Acanthosis
Hyperkeratosis

Minimal
Minimal

Spleen

Lymphoma Malignant Undifferentiated Cell Type

Stomach

Glandular

Ulcer

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6206

TRT#: 5

SEX: Male

DAY ON TEST: 692

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851506

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6207

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 2,3,4,5-7+8 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,5-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: HEMA CELL PROL TGLs = 1-9 | | | |
| Note: ECTASIA TGLs = 1-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 1-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6208

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---------------------------------------|-------------------|--------------------------------|--------------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 2,4,5-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3,5-7+8 | | | |
| Lung | Mediastinum | Lymphoma Malignant Lymphocytic | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: ECTASIA TGLs = 1-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 1-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6209

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|------------------|
| Heart | Coron Artery | Inflammation | Chronic, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Jejunum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 2,3,4,5,6,7,8-7+8+9+10 [Hepatocellular Carcinoma TGLs = 2,3,4-1+10] | | | |
| Lung | Interstitium | Inflammation | Chronic, Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL Note: HEMA CELL PROL TGLs = 1-11 Note: ECTASIA TGLs = 1-11 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6210

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Natural Death

DAY ON TEST: 719

HISTO: 851510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Pancreas | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|-------------------|--------|
| Parathyroid Gland | Thymus |
|-------------------|--------|

OBSERVATIONS

| | | | |
|---------------|---------|---|-----------------------|
| Adrenal Gland | Capsule | Lymphoma Malignant Undifferentiated Cell Type | |
| Bone Marrow | Sternal | Lymphoma Malignant Undifferentiated Cell Type | |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| | | Nephropathy | Chronic, Moderate |
| Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Lymphoma Malignant Undifferentiated Cell Type | |
| | | Necrosis | Coagulative, Moderate |

Note: [LYMPH MAL UNDF] TGLs = 1-1+12

Note: HEPATOCLR CARC TGLs = 1-1+12

Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; LYMPH MALIG UNDF,

Note: MULTIPLE ORGS; TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

| | | |
|------------|------------|---|
| Lymph Node | Lumbar | Lymphoma Malignant Undifferentiated Cell Type |
| | Mandibular | Lymphoma Malignant Undifferentiated Cell Type |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type |
| | Renal | Lymphoma Malignant Undifferentiated Cell Type |

Note: [LYMPH MAL UNDF] TGLs = 3,4,5,6-3+8+9+10+11

| | | |
|------|--|---|
| Nose | | Lymphoma Malignant Undifferentiated Cell Type |
|------|--|---|

| | | |
|--------|--|---|
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type |
|--------|--|---|

Note: [LYMPH MAL UNDF] TGLs = 2-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6210

TRT#: 5

SEX: Male

DAY ON TEST: 719

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851510

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6211

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 653

HISTO: 851511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|---|----------|
| Epididymis | | Granuloma Sperm | Moderate |
| Note: GRANLOMA SPERM TGLs = 5-6 | | | |
| Intestine Small | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 6-9 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: TOXIC HEPATOPATHY; LYMPH MALIG UNDIFF | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-1 | | | |
| Note: HEPATOCLR CARC TGLs = 2,3,4-1+7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMA, CARCINOMAS; | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6212

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 851512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Ileum
Nose
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Intestine Small - Jejunum
Pancreas
Salivary Glands
Testes

Bone
Esophagus
Intestine Large - Colon
Islets, Pancreatic
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Gallbladder
Intestine Small - Duodenum
Lung
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Thymus

OBSERVATIONS

Intest Small

Note: NO CORRESP LESION FOR JEJUNAL NODULE NOTED AT NECROPSY

Intestine Large

Rectum

Kidney

Liver

Parasite Metazoan

Nephropathy

Cytomegaly

Fatty Change

Hepatocellular Adenoma

Hepatocellular Carcinoma

Chronic, Mild

Moderate

Minimal

Multiple

Single

Note: HEPATOCLR ADEN TGLs = 3,4,5-1+9

Note: HEPATOCLR CARC TGLs = 3,4,6,7-8+10

Lymph Node

Mesenteric

Mesenteric

Mesenteric

Hematopoietic Cell Proliferation

Hyperplasia

Infiltration Cellular

Minimal

Lymphoid, Mild

Histiocyte, Moderate

Note: INFILTRAT CELL TGLs = 1-11

Note: HYPERPLASIA TGLs = 1-11

Note: MAND L N: NORMAL

Note: HEMA CELL PROL TGLs = 1-11

Skin

Subcut Tiss

Acanthosis

Hemangioma

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6212

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 851512

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperkeratosis

Minimal

Parasite Metazoan

Note: OF TISSUE INCLUDED WITH THE SALIVARY GLANDS

Note: HEMANGIOMA OF SUBCUTANEOUS TISSUE WAS IN THE SECTION

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6213

TRT#: 5

SEX: Male

DAY ON TEST: 631

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------|------------|------------------------|-------------------------|
| Islets, Pancreatic | | Hyperplasia | Mild |
| Kidney | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |

Note: HEPATOCLR ADEN TGLs = 3,4,5-1+7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Note: GLOMERULONEPHRITIS; HEMANGIOSARCOMA OF SKIN

Lymph Node

Note: MAND L N: NORMAL

Skin

Subcut Tiss

| | |
|-------------------|---------|
| Acanthosis | Minimal |
| Hemangiosarcoma | |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |

[Hyperkeratosis TGLS = 1-8]

Spleen

| | |
|----------------------------------|------|
| Hematopoietic Cell Proliferation | Mild |
|----------------------------------|------|

Note: HEMA CELL PROL TGLs = 2-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6214

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|--------------------------|--------|
| Intestine Large - Rectum | Thymus |
|--------------------------|--------|

OBSERVATIONS

| | | | |
|--|-------------------|---|----------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Hepatocellular Adenoma TGLS = 3,4,5,6-1+9+10] | | | |
| [Hepatocellular Carcinoma TGLS = 3,4,7-11] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mandibular | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: [LYMPH MAL UNDF] TGLs = 8-12 | | | |
| Note: ECTASIA TGLs = 8-12 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: [LYMPH MAL UNDF] TGLs = 2-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6215

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------|------------------------|--------------------------|--------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Basophilic Focus | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC | TGLs = 2,3,5,7-7+8 | | |
| Note: HEPATOCLR ADEN | TGLs = 2,3,4,6,8-1+7+8 | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] | TGLs = 1-9 | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6216

TRT#: 5

SEX: Male

DAY ON TEST: 122

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Kidney
Parathyroid Gland
Spleen
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pituitary Gland
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Nose
Salivary Glands
Stomach - Glandular
Trachea

MISSING

Intestine Large - Cecum

Islets, Pancreatic

AUTO PRECLUDES DIAG.

Gallbladder

Lymph Node - Mesenteric

OBSERVATIONS

Liver
Note: C O DEATH: TOXIC HEPATOPATHY

Cytomegaly
Moderate

Lymph Node
Note: NO CORRESP LESION FOR ENLARGED MES L N SEEN AT NECROPSY
Note: HYPERPLASIA TGLs = 3-7
Note: DUE TO AUTOLYSIS OF THE ORGAN
Note: MAND L N: NORMAL

Lumbar
Hyperplasia
Plasma Cell, Moderate

Preputial Gland
Note: ABSCESS TGLs = 1-8

Abscess
Moderate

Prostate
Urin Bladder
Note: NO CORRESP LESION FOR UR BLADD ENLARGEMENT SEEN AT NECR

Inflammation
Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6217

TRT#: 5

SEX: Male

DAY ON TEST: 183

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | |
|--|----------------------------------|--------------------------|
| Epididymis | Inflammation | Chronic Active, Marked |
| Liver | Cytomegaly | Mild |
| Note: EPIDIDYMIS, PROSTATE | | |
| Note: C O DEATH: TOXIC HEPATOPATHY; INFLAMMATION OF | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Prostate | Inflammation | Chronic Active, Moderate |
| Note: INFLAMMATION TGLs = 1-6 | | |
| Spleen | Hematopoietic Cell Proliferation | Minimal |
| Urin Bladder | | |
| Note: NO CORRESP LESION FOR ENLARGED UR BLADD SEEN AT NECROPSY | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6218

TRT#: 5

SEX: Male

DAY ON TEST: 415

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Lung
Prostate
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Lymph Node
Skin
Trachea

Bone
Esophagus
Intestine Large - Rectum
Nose
Spleen
Urinary Bladder

Bone Marrow
Heart
Kidney
Parathyroid Gland
Testes

MISSING

Pituitary Gland

Thymus

AUTO PRECLUDES DIAG.

Gallbladder
Islets, Pancreatic
Stomach - Glandular

Intestine Small - Duodenum
Liver

Intestine Small - Ileum
Pancreas

Intestine Small - Jejunum
Stomach - Forestomach

OBSERVATIONS

Lymph Node
Note: MAND L N: NORMAL
Salivary Glands

Abscess
Bacterium

Moderate

Note: C O DEATH: SALIVARY GLAND ABSCESS

Note: SECTION OF SALIVARY ABSCESS IS ON SLIDE #6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6219

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|---------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 3,4,5,7,8,9-1+7+8 | | | |
| Note: HEPATOCLR ADEN TGLs = 3,4,6-7+8 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Note: ALV BRON ADEN TGLs = 1-2 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 2-4 | | | |
| Skin | | Acanthosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6220

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|---------------|---|-------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Intestine Small | Duodenum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1-4 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 3,4,5,7-7 | | | |
| [Hepatocellular Carcinoma TGLS = 3,4,5,6-1+7] | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N: NORMAL | | | |
| Note: LYMPH MAL UNDF TGLs = 2-8 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| [Hematopoietic Cell Proliferation TGLS = 8-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6220

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851520

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6221

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------|----------------|---|----------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | [Hepatocellular Adenoma TGLS = 2,3,4,5,7,8-1+8] | |
| | | [Hepatocellular Carcinoma TGLS = 2,3,6-8] | |
| Lung | Alveolar Epith | Alveolar/Bronchiolar Adenoma | Single |
| | | Hyperplasia | Minimal |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| | | Note: MAND L N: NORMAL | |
| | | Note: INFILTRAT CELL TGLs = 1-7 | |
| | | Note: HEMA CELL PROL TGLs = 1-7 | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6222

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|------------|---|------------------------------|
| Brain | | | |
| Note: AND NOT A LESION OF DISEASE | | | |
| Note: DILATATION OF BRAIN VENTRICLES JUDGED TO BE ARTIFACTUAL | | | |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | [Hepatocellular Adenoma TGLS = 3,4-1+7] | |
| | | [Hepatocellular Carcinoma TGLS = 3,4-1] | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 1,2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6223

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Natural Death

DAY ON TEST: 720

HISTO: 851523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|------------|---|----------------------|
| Adrenal Gland | Capsule | Lymphoma Malignant Undifferentiated Cell Type | |
| Intestine Large | Cecum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 6-10 | | | |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Lymphoma Malignant Undifferentiated Cell Type | |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 3,4,5-7 | | | |
| Note: LYMPH MAL UNDF TGLs = 3,4,5-7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: UNDIFFERENTIATED LYMPHOSARCOMA | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| | Pancreatic | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N: NORMAL | | | |
| Note: LYMPH MAL UNDF TGLs = 1,2,7-4+8+9+11 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6223

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Natural Death

DAY ON TEST: 720

HISTO: 851523

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Mild

Tooth

Lymphoma Malignant Undifferentiated Cell Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6224

TRT#: 5

SEX: Male

DAY ON TEST: 475

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Gallbladder

OBSERVATIONS

| | | |
|---|------------------------------|----------------------|
| Liver | Clear Cell Focus | Mild |
| | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Necrosis | Coagulative, Minimal |
| Note: [HEPATOCLR ADEN] TGLs = 1,2,3-1+7 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | |
| Lung | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6225

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 851525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------|-------------------|--|--------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | [Hepatocellular Adenoma TGLS = 4,5,7-1+7] | |
| | | [Hepatocellular Carcinoma TGLS = 4,5,6,8,9,10-1+7] | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC | | | |
| TGLs = 2-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Pancreatic | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA | | | |
| TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL | | | |
| TGLs = 3-1 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6225

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851525

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6226

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|-------------|--------------------------|-------------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY [Hepatocellular Carcinoma TGLS = 2,3,4-1] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| | Artery | Thrombosis | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Fibrosarcoma | |
| | | Hyperkeratosis | Minimal |
| [Acanthosis TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6227

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEMANGIOSARC TGLs = 3,4,5-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 3,4,5,6,7-1+7 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 1-2 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 2-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6228

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 2,3,4-7 [Hepatocellular Adenoma TGLS = 2,3-1] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 1-8 Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Gingiva | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6229

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Testes

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Skin
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pituitary Gland
Stomach - Forestomach

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node
Prostate
Stomach - Glandular

MISSING

Parathyroid Gland

Thymus

Thyroid Gland

Trachea

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland
Kidney
Liver

Bilateral, Medulla

Pheochromocytoma Benign
Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis

Chronic, Moderate
Moderate
Minimal
Multiple
Multiple
Coagulative, Mild

Note: GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY;

Note: HEPATOCLR CARC TGLs = 1,2-1+7

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6230

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|------------|--------|
| Lymph Node | Thymus |
|------------|--------|

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|-----------------------|
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: CYTOMEGALY TGLs = 2,3,4-1 | | | |
| Note: BASOPH FOCUS TGLs = 2,3,4-1 | | | |
| Note: C O DEATH: TOXIC HEPATOPATHY; FIBROSARCOMA OF SKIN; | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN TGLs = 5-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Skin | Subcut Tiss | Fibrosarcoma | |
| | | Hyperkeratosis | Minimal |
| Note: FIBROSARC TGLs = 1-7 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6231

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|-------------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Duodenum | Inflammation | Chronic Active, Minimal |
| Kidney | | Cyst | Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3,4-1+7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6232

TRT#: 5

SEX: Male

DAY ON TEST: 640

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|--------|------------|--------------------------|-------------------|
| Kidney | Glomerulus | Nephropathy | Chronic, Moderate |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |

Note: HEPATOCLR CARC TGLs = 1,2,3-7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

[Hepatocellular Carcinoma TGLS = 1,2,3-7]

| | | | |
|------------|-------------------|---------|------|
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
|------------|-------------------|---------|------|

Note: MAND L N: NORMAL

Note: ECTASIA TGLs = 4-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6233

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Lymph Node

OBSERVATIONS

| | | | |
|---|------------------|--------------------------|--------------------------|
| Kidney | | Infarct | Mild |
| Note: INFARCT | TGLs = 2-1 | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN | TGLs = 3,4,5-1+7 | | |
| [Hepatocellular Adenoma TGLS = 3,4,5-7] | | | |
| Lymph Node | | | |
| Note: NODE THAT WAS NOTED AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR ENLARGED MESENTERIC LYMPH | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6234

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|----------------|------------------------|----------|
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: [HEPATOCLR ADEN] TGLs = 1,2,3-1+7 | | | |
| Lung | Alveolar Epith | Hyperplasia | Moderate |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6235

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |

MISSING

Urinary Bladder

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|--------------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Kidney | | Metaplasia | Osseous, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: [HEPATOCLR ADEN] TGLs = 3,4,5,6-1+8+9 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 1-10 | | | |
| Note: HEMA CELL PROL TGLs = 1-10 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Acinus | Atrophy | Moderate |
| | Duct | Ectasia | Moderate |
| Note: ATROPHY TGLs = 2-4+7 | | | |
| Note: ECTASIA TGLs = 2-4+7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6235

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851535

ORGAN AND ACCOUNTABLE SITE STATUS

Urin Bladder

Note: ANY OTHER APPROPRIATE CATEGORY

Note: THE ABSENCE OF EPITHELIUM ON THE URINARY BLADDER IS

Note: PROBABLY A TISSUE HANDLING ARTIFACT AND NOT

Note: AUTOLYSIS, BUT IS SCORED AS AUTOLYSIS FOR LACK OF ANY

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6236

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 4,5,8-9 [Hepatocellular Adenoma TGLS = 4,5,6,7-1+8+10] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 2-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 3-11 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT SEEN AT NECR | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6237

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|----------------------|
| Kidney | | Cyst | Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | | |
| [Hepatocellular Adenoma TGLS = 2,3,4,6,7-1+7+8+10] | | | |
| [Hepatocellular Carcinoma TGLS = 2,3,5-9] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 1-11 | | | |
| Note: ECTASIA TGLs = 1-11 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6238

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|---------|---|-------------------|
| Intestine Small | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: ULCER TGLs = 1-7 | Jejunum | Ulcer | Marked |
| Note: LYMPH MAL UNDF TGLs = 1-7 | | | |
| Kidney | | Cyst | Moderate |
| Liver | | Basophilic Focus | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: UNDIFFERENTIATED LYMPHOSARC OF JEJUNUM | | | |
| Note: C O DEATH: HEPATOCLR ADENOMAS; TOXIC HEPATOPATHY | | | |
| [Hepatocellular Adenoma TGLS = 2,3-1] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Prostate | | Inflammation | Suppurative, Mild |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6238

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Natural Death

DAY ON TEST: 684

HISTO: 851538

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6239

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Cyst | Mild |
| | | Metaplasia | Osseous, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,4-7 [Hepatocellular Adenoma TGLS = 1,2,3,5-1+8] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6240

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | |
|---|--------------------------|----------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| | Necrosis | Coagulative, Minimal |
| [Hepatocellular Adenoma TGLS = 1,2,3-1+7] | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-7] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6241

TRT#: 5

SEX: Male

DAY ON TEST: 575

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|------------------------|-----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| Note: C O DEATH: HEPATOCLR ADENOMAS, TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 1,2,3-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 4-8 | | | |
| Note: MAND L N: NORMAL | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6242

TRT#: 5

SEX: Male

DAY ON TEST: 611

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 0851542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Gallbladder

OBSERVATIONS

| | | |
|--|------------------------|----------------------|
| Liver | Basophilic Focus | Mild |
| | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Necrosis | Coagulative, Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 1,2,3-1+7] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6243

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|------------|--------------------------|-------------------------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Hepatocellular Adenoma TGLS = 2,3-1] | | | |
| [Hepatocellular Carcinoma TGLS = 2,3,4-8] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 5-4 | | | |
| Preputial Gland | | Abscess | Moderate |
| Note: ABSCESS TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6244

TRT#: 5

DOSE: 10 PPM 3-3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 851544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------------|---|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 7-7 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 1,2,4-9 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3,4-8+9 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 6-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 6-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 5-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6245

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|------------------------|----------------------------|----------------------------------|----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Harderian Gland | | Adenoma | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Oval Cell | Hyperplasia | Marked |
| Note: HEPATOCLR CARC | TGLs = 2,3,4,6-8+9 | | |
| Note: HEPATOCLR ADEN | TGLs = 2,3,5,7,8,9-1+7+8+9 | | |
| Note: [HYPERPLASIA] | TGLs = 2,3-9 | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL | TGLs = 1-10 | | |
| Note: INFILTRAT CELL | TGLs = 1-10 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6246

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---------------------------------|---|----------------------------------|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | [Hepatocellular Adenoma TGLS = 3,4,5,6-1+7+8] | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| Note: ALV BRON ADEN TGLs = 2-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-9 | | | |
| Note: HEMA CELL PROL TGLs = 1-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|-----------------|------------------|--------------------------|------------------|
| ANIMAL ID: 6247 | TRT#: 5 | SEX: Male | DAY ON TEST: 734 |
| | DOSE: 10 PPM 3-3 | DISP: Terminal Sacrifice | HISTO: 851547 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-----------------------------------|-------------------|------------------------|----------|
| Adrenal Gland | Subcapsular | Hyperplasia | Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 2,3-1 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6248

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|----------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3,4-7] | | | |
| [Hepatocellular Carcinoma TGLS = 2,3,4-7] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6249

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--------------------------|---|------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 2,3,4,5-1+7+8] | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Tooth | Pulp | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6250

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|----------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 3,4,5,6,7-1+7+8+9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN | TGLs = 2-2 | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| Note: HEMA CELL PROL | TGLs = 1-10 | | |
| Note: INFILTRAT CELL | TGLs = 1-10 | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6251

TRT#: 6

SEX: Male

DAY ON TEST: 541

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Nose
Thymus

Adrenal Gland - Medulla
Esophagus
Prostate
Trachea

Bone
Heart
Salivary Glands
Urinary Bladder

Brain
Lung
Testes

MISSING

Gallbladder
Pituitary Gland

Islets, Pancreatic
Thyroid Gland

Pancreas

Parathyroid Gland

AUTO PRECLUDES DIAG.

Bone Marrow
Intestine Small - Duodenum
Lymph Node
Stomach - Glandular

Intestine Large - Cecum
Intestine Small - Ileum
Skin

Intestine Large - Colon
Intestine Small - Jejunum
Spleen

Intestine Large - Rectum
Kidney
Stomach - Forestomach

OBSERVATIONS

Liver
Note: [HEPATOCLR ADEN] TGLs = 1-4
Note: C O DEATH: HEPATOCELLULAR ADENOMA
Lymph Node
Note: MAND L N: AUTOLYSIS PRECL HISTOPATH ANALYSIS

Hepatocellular Adenoma

Single

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6252

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Trachea | Urinary Bladder | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|------------------|
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,4-1] | | | |
| [Hepatocellular Carcinoma TGLS = 2,3,4-1+7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Skin | | Hyperkeratosis | Minimal |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6253

TRT#: 6

SEX: Male

DAY ON TEST: 671

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|--------------------------|-------------------------|
| Intestine Large - Rectum | Intestine Small - Ileum |
|--------------------------|-------------------------|

OBSERVATIONS

| | | |
|---|------------------------------|-------------------------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| | Necrosis | Coagulative, Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7 | | |
| Note: TOXIC HEPATOPATHY | | |
| Lung | Alveolar/Bronchiolar Adenoma | Single |
| | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Thyroid Gland | Follicle | Nodular, Minimal |
| | Hyperplasia | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6254

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|----------------------------|--------------------------|----------------------|
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN | TGLs = 4,5,6,7,8-8+9+10+11 | | |
| Note: HEPATOCLR CARC | TGLs = 4,7-9+11 | | |
| Lymph Node | | | |
| Note: NECROPSY | | | |
| Note: NO CORRESP LESION FOR ENLARGED MESENTERIC L NODE SEEN AT | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Acinus | Atrophy | Mild |
| | Duct | Ectasia | Marked |
| Note: ECTASIA | TGLs = 2-7 | | |
| Note: ATROPHY | TGLs = 2-7 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hypospermia | |
| Testes | Seminif Tub | | |
| Note: HYOSPERMIA | TGLs = 1-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6255

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|------------------|
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,3-9 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-8+9+10+11 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 4-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6256

TRT#: 6

SEX: Male

DAY ON TEST: 421

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-----------------|------------|-------------------|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Basophilic Focus | Mild |
| | | Clear Cell Focus | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Sarcoma | |

Note: [SARCOMA] TGLs = 1-1
Note: C O MORB: TOXIC HEPATOPATHY
Note: [CLEAR CL FOCUS] TGLs = 2,3-1

Lymph Node
Note: MAND L N: NORMAL
Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6257

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------|------------------------|--------------------------|----------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS | TGLs = 6-10 | | |
| Harderian Gland | | Adenoma | |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN | TGLs = 1,2,3,4,5-7+8+9 | | |
| Note: HEPATOCLR CARC | TGLs = 1,2,4-8 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6258

TRT#: 6

SEX: Male

DAY ON TEST: 694

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Kidney | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

| | |
|--------------------|--------|
| Islets, Pancreatic | Thymus |
|--------------------|--------|

OBSERVATIONS

| | | | |
|--|----------|--------------------------|-------------------------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; Note: TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 1,2,3-7] [Hepatocellular Carcinoma TGLS = 1,2,3-7] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6259

TRT#: 6

SEX: Male

DAY ON TEST: 653

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|--------------------|
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Mild |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 4-8 | | | |
| Note: MAND L N : NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6260

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|------------------|
| Kidney | | Metaplasia | Osseous, Minimal |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | | |
| | | | |
| [Basophilic Focus TGLS = 2,3,6-9+10] | | | |
| [Clear Cell Focus TGLS = 2,4,5-1+8+9+10] | | | |
| Lung | Alveolar Epith | Hyperplasia | Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6261

TRT#: 6

SEX: Male

DAY ON TEST: 670

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

OBSERVATIONS

| | | | |
|------------|-----------------------------|--|--|
| Liver | | Cytomegaly Fatty Change Hepatocellular Adenoma Hepatocellular Carcinoma Necrosis | Moderate Minimal Single Multiple Coagulative, Mild |
| Lung | | Hepatocellular Carcinoma Thrombosis | Metastatic (Uncertain Primary Site) |
| Lymph Node | Artery Mesenteric, Sinus | Ectasia | Mild |
| Mesentery | | Inflammation | Chronic, Mild |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6261

TRT#: 6

SEX: Male

DAY ON TEST: 670

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851571

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6262

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|------------------------|---|--------------------------|-------------------------------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | [Hepatocellular Adenoma TGLS = 1,2,3,4-1+7+8] | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6263

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|----------|--------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,6,7-7+9 [Hepatocellular Adenoma TGLS = 1,2,3,4,5-1+8+10+11] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6264

TRT#: 6

SEX: Male

DAY ON TEST: 559

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung |
| Nose | Pancreas | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | | |
|--------------------|-------------------|--------|
| Islets, Pancreatic | Parathyroid Gland | Thymus |
|--------------------|-------------------|--------|

OBSERVATIONS

| | | |
|--------|--------------------------|---------------|
| Kidney | Nephropathy | Chronic, Mild |
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |

Note: HEPATOCLR CARC TGLs = 3,4-8

Note: HEPATOPATHY; LYMPH MALIG UNDIFF; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; TOXIC

Note: HEPATOCLR ADEN TGLs = 3,4-8

| | | |
|------------|------------|---|
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type |
| | Renal | Lymphoma Malignant Undifferentiated Cell Type |

Note: [LYMPH MAL UNDF] TGLs = 1,2-6+7

Note: MAND L N: NORMAL

| | | |
|--------|---|------|
| Spleen | Hematopoietic Cell Proliferation | Mild |
| | Lymphoma Malignant Undifferentiated Cell Type | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6265

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|--------------------|
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC TGLs = 3,4,5,9-9+11 | | | |
| Note: NECROSIS TGLs = 8-8 | | | |
| Note: HEPATOCLR ADEN TGLs = 3,4,5,6,7-1+7+10+11 | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA TGLs = 2-12 | | | |
| Note: HEMA CELL PROL TGLs = 2-12 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Marked |
| Note: INFLAMMATION TGLs = 2-12 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Cyst Epithelial Inclusion | |
| | Forestomach | Inflammation | Chronic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6265

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851575

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 1-13

Note: CYST EPITH INC TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6266

TRT#: 6

SEX: Male

DAY ON TEST: 391

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Oval Cell | Proliferation | Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2-1+7

Note: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6267

TRT#: 6

SEX: Male

DAY ON TEST: 559

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | |
|--|----------------------------------|----------|
| Liver | Basophilic Focus | |
| | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; Note: HEPATOCLR ADEN TGLs = 1,2,3-7 Note: TOXIC HEPATOPATHY [Basophilic Focus TGLS = 1,2,3-8] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Spleen | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6268

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-------------------|------------------------------|----------------------|
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 3,4,7,8,10-7+9+11 [Cytomegaly TGLs = 3,4,5,6,7,9,10,11-1+7+8+9+10+11] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: [ALV BRON ADEN] TGLs = 1-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-12 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6269

TRT#: 6

SEX: Male

DAY ON TEST: 651

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Jejunum | Lymphoma Malignant Lymphocytic | |
| | Jejunum | Ulcer | Moderate |
| Note: [LYMPH MAL LYMP] TGLs = 1-9 | | | |
| Note: ULCER TGLs = 1-9 | | | |
| Kidney | | Lymphoma Malignant Lymphocytic | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| Note: TOXIC HEPATOPATHY; LYMPH MALIG LYMP | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-1+7+8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 5-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6269

TRT#: 6

SEX: Male

DAY ON TEST: 651

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851579

ORGAN AND ACCOUNTABLE SITE STATUS

Parasite Metazoan

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6270

TRT#: 6

SEX: Male

DAY ON TEST: 725

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| Note: HEMANGIOSARC TGLs = 2-1+8 | | | |
| Note: OF LIVER AND SPLEEN; TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; HEMANGIOSARCOMA | | | |
| [Hepatocellular Adenoma TGLS = 2-8] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 3-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hemangiosarcoma | |
| | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |
| Note: HEMANGIOSARC TGLs = 1-1 | | | |
| Stomach | Glandular, Mucosa | Mineralization | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6270

TRT#: 6

SEX: Male

DAY ON TEST: 725

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851580

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6271

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|----------|
| Gallbladder | Prostate |
|-------------|----------|

OBSERVATIONS

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------|
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC | TGLs = 1,2,5,7-7+8 | | |
| Note: HEPATOCLR ADEN | TGLs = 1,2,3,4,7-8+9+10 | | |
| Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: MISSING | | | |
| Note: ECTASIA | TGLs = 6-11 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicular Cel | Adenoma | |
| | Follicle | Hyperplasia | Nodular, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|--------------------------|----------------------------|-------------------------|
| ANIMAL ID: 6272 | TRT#: 6 | SEX: Male | DAY ON TEST: 662 |
| | DOSE: 10 PPM 10-3 | DISP: Natural Death | HISTO: 851582 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Nose | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-------------|----------------------------|-----------------------|---------------------|
| Gallbladder | Intestine Small - Duodenum | Stomach - Forestomach | Stomach - Glandular |
|-------------|----------------------------|-----------------------|---------------------|

AUTO PRECLUDES DIAG.

| | | | |
|------------------------------|--------|------------|----------|
| Islets, Pancreatic Spleen | Kidney | Lymph Node | Pancreas |
|------------------------------|--------|------------|----------|

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS

Note: HEPATOCLR ADEN TGLs = 1,2-7

[Hepatocellular Adenoma TGLS = 1,2-7]

| | | | |
|------------|--|------------------------------|--------|
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |

Note: MAND L N: AUTOLYSIS PRECLUDES DIAGNOSIS

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6273

TRT#: 6

SEX: Male

DAY ON TEST: 138

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Skin
Testes
Urinary Bladder

Bone
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pituitary Gland
Spleen
Thymus

Bone Marrow
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Liver
Lymph Node
Note: MAND L N: NORMAL
Testes
Note: C O DEATH: UNKNOWN

Cytomegaly

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6274

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|---|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatocellular Adenoma TGLS = 4,5-1] | | |
| | [Hepatocellular Carcinoma TGLS = 4,5,6,7-1+7+8] | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN | TGLs = 1-2 | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA | TGLs = 3-9 | | |
| Note: HEMA CELL PROL | TGLs = 3-9 | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | | | |
| Note: NO CORRESP LESION FOR PITUITARY CYST SEEN AT NECROPSY | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6274

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851584

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6275

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Trachea | Urinary Bladder |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|------------------------|---------------------|----------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN | TGLs = 3,4,7,8-11 | | |
| Note: HEPATOCLR CARC | TGLs = 3,4,5,6-9+10 | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA | TGLs = 1-7 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL | TGLs = 2-8 | | |
| Thyroid Gland | Follicular Cel | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6275

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851585

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6276

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|------------|--------------------------|---------------------|
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-7+9+10 | | | |
| Note: HEPATOCLR CARC TGLs = 2,3,4-7+8+9+10 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| | Mesenteric | Infiltration Cellular | Histiocyte, Minimal |
| Note: INFILTRAT CELL TGLs = 1-11 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 1-11 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6277

TRT#: 6

SEX: Male

DAY ON TEST: 562

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | | |
|-------------|-------------------------|--------------------|
| Gallbladder | Intestine Small - Ileum | Islets, Pancreatic |
|-------------|-------------------------|--------------------|

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|--------|------------|------------------------|-------------------------|
| Kidney | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Note: [HEPATOCLR ADEN] TGLs = 1,2,3,4-7+8

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|------|--|------------|---------|
| Skin | | Acanthosis | Minimal |
|------|--|------------|---------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6278

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|----------------------|---------------------------|----------------------------------|------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC | TGLs = 2,3,4-9 | | |
| Note: HEPATOCLR ADEN | TGLs = 2,3,4,5-9+10+12+13 | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN | TGLs = 6-7 | | |
| Lymph Node | Mandibular, Sinus | Ectasia | Marked |
| | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA | TGLs = 7-11 | | |
| Note: HEMA CELL PROL | TGLs = 1-8 | | |
| Note: ECTASIA | TGLs = 1-8 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6278

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851588

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6279

TRT#: 6

SEX: Male

DAY ON TEST: 702

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------|------------|--------------------------|-------------------------|
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: HEPATOCLR ADEN TGLs = 1,2,3-7

Note: HEPATOCLR CARC TGLs = 1,2,3-7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Lymph Node

Note: MAND L N: NORMAL

Thyroid Gland

Follicle

Hyperplasia

Nodular, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6280

TRT#: 6

SEX: Male

DAY ON TEST: 716

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-------------|-----------------|--------|--|
| Gallbladder | Pituitary Gland | Thymus | |
|-------------|-----------------|--------|--|

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |

Note: HEPATOCLR ADEN TGLs = 2,3,4-8

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 2,3,4-8

| | | | |
|------------|-------------------|---------|------|
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
|------------|-------------------|---------|------|

Note: ECTASIA TGLs = 1-7

Note: MAND L N: NORMAL

| | | | |
|--------|--|----------------------------------|------------------|
| Skin | | Inflammation | Chronic, Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6281

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|-----------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 2,4,6-12 | | | |
| Note: HEPATOCLR CARC TGLs = 2,3,4,6-9+10+12 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: [ALV BRON ADEN] TGLs = 8-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Moderate |
| Note: INFLAMMATION TGLs = 1-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6281

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851591

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

[Hematopoietic Cell Proliferation TGLS = 7-1]

Thyroid Gland

Follicle

Parasite Metazoan

Hematopoietic Cell Proliferation

Minimal

Hyperplasia

Nodular, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6282

TRT#: 6

SEX: Male

DAY ON TEST: 548

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|--------------------|--------------------------|-------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1-1 | | | |
| Note: BASOPH FOCUS TGLs = 4,5-1+7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: LYMPH MALIG MIXD; GLOMERULONEPHRITIS; INFLAMM, LUNG | | | |
| Lung | Alveolus | Inflammation | Acute, Moderate |
| Lymph Node | Mediastinal, Sinus | Ectasia | Mild |
| | Mesenteric | Lymphoma Malignant Mixed | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-2 | | | |
| Note: [LYMPH MAL MIXD] TGLs = 3-8 | | | |
| Pancreas | Acinus | Atrophy | Minimal |
| Thyroid Gland | Follicular Cel | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6283

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|-----------------------|
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 2,3,5,7-8+10 | | | |
| Note: HEPATOCLR CARC TGLs = 2,3,4,6,7-1+9+10 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Stomach | | | |
| Note: NO CORRESP LESION FOR FORESTOMACH NODULE SEEN AT NECR | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6284

TRT#: 6

SEX: Male

DAY ON TEST: 591

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | |
|-------------|------------|--------|
| Gallbladder | Lymph Node | Thymus |
|-------------|------------|--------|

AUTO PRECLUDES DIAG.

| | | |
|----------------------------|-------------------------|---------------------------|
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
|----------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1,2-7

Note: HEPATOCLR CARC TGLs = 1,2-7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Lymph Node

Note: MAND L N: MISSING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6285

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|------------|------------------------|----------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| Note: [HEPATOCLR ADEN] TGLs = 1,2,3,4,5,6-1+7+8 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 7-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6286

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | | |
|-------------|--------|--|--|
| Gallbladder | Thymus | | |
|-------------|--------|--|--|

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 2,3,4-8 [Hepatocellular Adenoma TGLS = 2,3,4-1+8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL Note: HEMA CELL PROL TGLs = 1-7 Note: ECTASIA TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6287

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---------------------------------|---|----------------------------------|------------------|
| Brain | Hypothalamus | Compression | |
| Epididymis | | Inflammation | Chronic, Mild |
| Harderian Gland | | Adenoma | |
| Kidney | | Metaplasia | Osseous, Minimal |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 2,3,4,5,6-1+8] | | |
| | [Hepatocellular Carcinoma TGLS = 2,3,4,5-1+8] | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6287

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851597

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Follicular Cel

Parasite Metazoan

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6288

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| | | | |
| | | | |
| [Hepatocellular Adenoma TGLS = 2,3-1] | | | |
| [Hepatocellular Carcinoma TGLS = 2,3-1] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6289

TRT#: 6

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|-----------------|
| Gallbladder | Pituitary Gland |
|-------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Basophilic Focus | Moderate |
| | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |

Note: HEPATOCLR CARC TGLs = 2,3,4-7
[Cytomegaly TGLS = 2,3,4-1+7]

Lymph Node

Note: MAND L N: NORMAL

Skin

| | |
|----------------------------------|---------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |
| Hematopoietic Cell Proliferation | Minimal |

Spleen

Note: HEMA CELL PROL TGLs = 1-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6290

TRT#: 6

SEX: Male

DAY ON TEST: 672

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; Note: HEPATOCLR ADEN TGLs = 1,2,3-7 Note: TOXIC HEPATOPATHY Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 4-8 Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6291

TRT#: 6

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|----------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR ADEN TGLs = 1,2,3,5,6-7+8+9 [Hepatocellular Carcinoma TGLS = 1,2,4-9] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: ECTASIA TGLs = 7-10 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6292

TRT#: 6

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Granuloma | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: [HEPATOCLR ADEN] TGLs = 2,3,4,5-1+7+8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6293

TRT#: 6

SEX: Male

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------|-------------------|---|-------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | [Hepatocellular Adenoma TGLS = 2,3,4,5,6-1+7+8+9] | |
| | | [Hepatocellular Carcinoma TGLS = 1,2,5-7] | |
| Lung | Alveolar Epith | Alveolar/Bronchiolar Adenoma | Single |
| | | Hyperplasia | Mild |
| Note: ALV BRON ADEN | TGLs = 1-2 | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Mesenteric | Hyperplasia | Plasma Cell, Mild |
| Note: ECTASIA | TGLs = 7-10 | | |
| Note: HEMA CELL PROL | TGLs = 7-10 | | |
| Note: HYPERPLASIA | TGLs = 7-10 | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6293

TRT#: 6

DOSE: 10 PPM 10-3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperkeratosis

Parasite Metazoan

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6294

TRT#: 6

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|------------------------|----------------------|--------------------------|------------------|
| Kidney | | Metaplasia | Osseous, Minimal |
| | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC | TGLs = 1,2,3,4-1+7+8 | | |
| Note: HEPATOCLR ADEN | TGLs = 1,2,3-1+7 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6295

TRT#: 6

SEX: Male

DAY ON TEST: 598

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | | |
|-------------|--------|--|--|
| Gallbladder | Thymus | | |
|-------------|--------|--|--|

OBSERVATIONS

| | | | |
|--|------------|--------------------------|-------------------|
| Gallbladder | | | |
| Note: GALLBLADDER ABSENT BUT COMM BILE DUCT PRESENT AND NORMAL | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-7] | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-7] | | | |
| Lung | Alveolus | Inflammation | Acute, Mild |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 4-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6296

TRT#: 6

SEX: Male

DAY ON TEST: 684

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Nose | Pancreas | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-------------------------|-------------------|-----------------|--------|
| Intestine Small - Ileum | Parathyroid Gland | Pituitary Gland | Thymus |
|-------------------------|-------------------|-----------------|--------|

OBSERVATIONS

| | | | |
|--|-------|----------------------------------|-----------------------|
| Harderian Gland | | Adenoma | |
| Heart | | Ectopic Tissue | |
| Note: ECTOPIC TISSUE IS THYROID, TRACHEAL CARTILAGE | | | |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7 | | | |
| Note: C O DEATH: HEPATOCLR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Chronic, Mild |
| Spleen | | Fibrosis | Mild |
| | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6297

TRT#: 6

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach | Testes | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|-----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Moderate |
| Note: HEPATOCLR ADEN TGLs = 4,5-1+7 [Necrosis TGLs = 4,5,6-1+7] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 1-2 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 3-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Testes | | | |
| Note: BECAUSE THE TESTICLE COULD NOT BE FOUND AT TRIM | | | |
| Note: NO CORRESP LESION FOR SMALL TESTIS OBSERVED AT NECROPSY | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6297

TRT#: 6

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851607

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6298

TRT#: 6

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Epididymis | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Trachea | Urinary Bladder |

MISSING

Esophagus

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|------------------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7+8 | | | |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Liver | | Basophilic Focus | Moderate |
| | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Parasite Metazoan | |
| Note: HEPATOCLR ADEN TGLs = 4,5,6,7,8,9-10+11+12 [Hepatocellular Carcinoma TGLS = 4,5,6,7-11+12] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: ECTASIA TGLs = 2-13 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT SEEN AT NECROPSY | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| Tooth | Pulp | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6298

TRT#: 6

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851608

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6299

TRT#: 6

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|-----------------------------------|-------------------|------------------------------|--------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| [Necrosis TGLS = 5,6,8-1+9] | | | |
| [Thrombosis TGLS = 5,6,7,8-8+9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 3,4-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6299

TRT#: 6

SEX: Male

DAY ON TEST: 734

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851609

ORGAN AND ACCOUNTABLE SITE STATUS

Parasite Metazoan

Spleen

Note: NO CORRESP LESION FOR ENLARGED SPLEEN NOTED AT NECROPSY

Thyroid Gland

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6300

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Islets, Pancreatic
Stomach - Glandular

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Nose

Bone
Heart
Intestine Small - Duodenum
Pancreas

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Stomach - Forestomach

MISSING

Brain
Salivary Glands

Lymph Node
Thymus

Parathyroid Gland
Thyroid Gland

Pituitary Gland
Trachea

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Epididymis
Kidney
Liver

Inflammation
Infarct
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis

Chronic, Mild
Mild
Mild
Minimal
Multiple
Single
Coagulative, Moderate

Note: HEPATOCLR CARC TGLs = 3,4,5-7

Note: HEPATOCLR ADEN TGLs = 3,4,5-7

Note: TOXIC HEPATOPATHY; INFLAMMATION OF URINARY BLADDER

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Lung

Alveolar/Bronchiolar Adenoma
Hepatocellular Carcinoma

Single
Metastatic (Liver)

Lymph Node

Note: MAND L N: MISSING

Prostate

Inflammation

Chronic Active, Marked

Skin

Acanthosis

Minimal

Spleen

Hematopoietic Cell Proliferation

Mild

Testes

Seminif Tub

Atrophy

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6300

TRT#: 6

SEX: Male

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851610

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Inflammation

Chronic Active, Marked

Note: INFLAMMATION TGLs = 1,2-6+8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6301

TRT#: 7

SEX: Male

DAY ON TEST: 636

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------|--------------------------|----------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Testes |
| Thymus | Thyroid Gland | Trachea | |

MISSING

Intestine Small - Ileum

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Urinary Bladder

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2-1+7+8 | | | |
| Note: C O DEATH: HEPATOCLR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Stomach | Glandular, Mucosa | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6301

TRT#: 7

SEX: Male

DAY ON TEST: 636

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6302

TRT#: 7

SEX: Male

DAY ON TEST: 513

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Gallbladder

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| Note: [EOSIN FOCUS] TGLs = 2,3,4-1+7 | | | |
| Note: C O MORB: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 1-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6303

TRT#: 7

SEX: Male

DAY ON TEST: 700

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-----------|--------------------------|-------------------|
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCUS NOTED AT TRIM | | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-9+10 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6303

TRT#: 7

SEX: Male

DAY ON TEST: 700

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6304

TRT#: 7

SEX: Male

DAY ON TEST: 613

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | |
|---------------------------|--------------------|-----------------|
| Intestine Small - Jejunum | Islets, Pancreatic | Pituitary Gland |
|---------------------------|--------------------|-----------------|

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|-------------------------|
| Heart | Valve | Inflammation | Chronic Active, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | Vein | Inflammation | Subacute, Moderate |
| | | Necrosis | Coagulative, Minimal |

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR CARC TGLs = 1,2-7+8

Note: [INFLAMMATION] TGLs = 3-9

Note: HEPATOCLR ADEN TGLs = 1,2-1+7+8

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Lymph Node

Note: MAND L N: NORMAL

Skin Hyperkeratosis

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6304

TRT#: 7

DOSE: 30 PPM 0-10

SEX: Male

DISP: Natural Death

DAY ON TEST: 613

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6305

TRT#: 7

SEX: Male

DAY ON TEST: 703

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------|-------------|----------------------------------|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: ALV BRON CARC | TGLs = 4-10 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6305

TRT#: 7

SEX: Male

DAY ON TEST: 703

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6306

TRT#: 7

SEX: Male

DAY ON TEST: 650

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Epididymis |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|---------------------------------------|--------------|----------------------------------|-------------------|
| Adrenal Gland | Medulla | Hyperplasia | Minimal |
| Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6307

TRT#: 7

SEX: Male

DAY ON TEST: 662

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Parathyroid Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-----------------|--------|--|--|
| Pituitary Gland | Thymus | | |
|-----------------|--------|--|--|

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 2,3-1+8 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3-1+8 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | | Infarct | Marked |
| Note: INFARCT TGLs = 1-7 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6308

TRT#: 7

SEX: Male

DAY ON TEST: 704

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Note: [NEPHROPATHY] TGLs = 4-1 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Moderate |
| | | Necrosis | Coagulative, Minimal |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 2-1+7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 3-4 | | | |
| Pancreas | Artery | Inflammation | Chronic, Moderate |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6309

TRT#: 7

SEX: Male

DAY ON TEST: 477

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|--------|-----------|--------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |

Note: GLOMERULONEPHRITIS

Note: CYTOMEGALY TGLs = 2,3-7+8

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR CARCINOMA; TOXIC HEPATOPATHY;

[Hepatocellular Carcinoma TGLS = 1,4-1]

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6310

TRT#: 7

SEX: Male

DAY ON TEST: 649

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | | |
|-------------------------|------------|--------|
| Intestine Small - Ileum | Lymph Node | Thymus |
|-------------------------|------------|--------|

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|--------|-----------|------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| | | Thrombosis | |

Note: GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS: TOXIC HEPATOPATHY:

Note: [HEPATOCLR ADEN] TGLs = 1,2,3-1

Lymph Node

Note: MAND L N: MISSING

| | | | |
|--------|--|----------------------------------|------|
| Spleen | | Hematopoietic Cell Proliferation | Mild |
|--------|--|----------------------------------|------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6311

TRT#: 7

SEX: Male

DAY ON TEST: 510

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | |

MISSING

Intestine Large - Cecum

OBSERVATIONS

| | | | |
|---|-------------|--------------------------|-------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Minimal |
| Intest Small | | | |
| Note: THE JEJUNUM THAT WAS NOTED AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR BLACKNESS AND SOFTNESS OF | | | |
| Intestine Large | Colon | Parasite Metazoan | |
| Note: TWO SECTIONS OF COLON AND NO SECTION OF CECUM ON SLIDE #4 | | | |
| Kidney | | Inflammation | Acute, Moderate |
| [Inflammation TGLS = 6-1] | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR ADEN TGLs = 3,5-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: RENAL INFLAMMATION; TOXIC HEPATOPATHY | | | |
| [Hepatocellular Carcinoma TGLS = 3,4-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Prostate | | Inflammation | Suppurative, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6311

TRT#: 7

SEX: Male

DAY ON TEST: 510

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|--------|----------------------------------|--------------------------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Urinary Bladder | Mucosa | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |

Note: INFLAMMATION TGLs = 1-4

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6312

TRT#: 7

SEX: Male

DAY ON TEST: 636

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

Intest Large

Note: NO CORRESP LESION FOR ENLARGED COLON NOTED AT NECROPSY

Kidney

Liver

Nephropathy
Chronic, Mild
Cytomegaly
Moderate
Fatty Change
Minimal
Hepatocellular Adenoma
Multiple
Hyperplasia
Minimal
Necrosis
Coagulative, Moderate
Thrombosis

Bile Duct

Note: C O DEATH:HEPATOCELLULAR ADENOMAS

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 1,2-7+8+9+10+13

Lymph Node

Mesenteric, Sinus

Ectasia

Minimal

Note: MAND L N: NORMAL

Note: ECTASIA TGLs = 3-11

Pancreas

Duct

Ectasia

Marked

Artery

Inflammation

Chronic, Mild

Spleen

Hematopoietic Cell Proliferation

Moderate

Thyroid Gland

Follicle

Hyperplasia

Nodular, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6312

TRT#: 7

DOSE: 30 PPM 0-10

SEX: Male

DISP: Natural Death

DAY ON TEST: 636

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6313

TRT#: 7

SEX: Male

DAY ON TEST: 694

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-------------|--------------------------|---------------------------|-------------------|
| Gallbladder | Intestine Large - Rectum | Intestine Small - Jejunum | Parathyroid Gland |
| Thymus | Thyroid Gland | | |

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

| | | | |
|--|--------------|----------------------------------|-------------------|
| Brain | | | |
| Note: PARASITE IN BRAIN SECTION 3I JUDGED TO BE ARTIFACT | | | |
| Heart | Coron Artery | Inflammation | Chronic, Moderate |
| Intest Large | | | |
| Note: RECTUM NOT PRESENT ON SLIDE #4, BUT PRESENT AT TRIM; | | | |
| Note: APPARENTLY LOST IN PROCESSING | | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Thrombosis | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7+8+9 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6313

TRT#: 7

SEX: Male

DAY ON TEST: 694

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Mild

Thyroid GI

Note: NO SECTION TAKEN OF THYROID NODULE NOTED AT TRIM

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6314

TRT#: 7

SEX: Male

DAY ON TEST: 599

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Trachea | Urinary Bladder | |

MISSING

Intestine Small - Ileum

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8+9 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+8 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: ECTASIA TGLs = 4-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 5-10 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6315

TRT#: 7

DOSE: 30 PPM 0-10

SEX: Male

DISP: Natural Death

DAY ON TEST: 475

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Pituitary Gland

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

| | | | |
|---|-----------|--------------------------|----------------------|
| Adrenal Gland | Cortex | Infarct | Moderate |
| Blood Vessel | Aorta | Thrombosis | |
| Epididymis | | Granuloma Sperm | Mild |
| Gallbladder | | | |
| Note: GALLBLADDER MISSING BUT COMMON BILE DUCT PRESENT & NORMAL | | | |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Note: INFLAMMATION TGLs = 2-1 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Moderate |
| | | Necrosis | Coagulative, Minimal |

Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY;

Note: CYTOMEGALY TGLs = 3,4-1+7

Note: HEPATOCLR CARC TGLs = 3,4,5,6-8

Note: GLOMERULONEPHRITIS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6315

TRT#: 7

SEX: Male

DAY ON TEST: 475

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node

Note: MAND L N: NORMAL

Pituitary Gl

Note: MARKED PRESENT AT TRIM; APPARENTLY LOST IN PROCESSING

Note: NO PITUITARY TISSUE ON SLIDE #6, BUT PITUITARY WAS

Skin

Hyperkeratosis

Minimal

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 1-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6316

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7+8+9 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8+9 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6317

TRT#: 7

SEX: Male

DAY ON TEST: 688

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

| | | | |
|---|---------------------|--------------------------|------------------------------|
| Gallbladder | | Hemorrhage | Moderate |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Intestine Large | Cecum | Cyst | |
| | Colon | Parasite Metazoan | |
| Note: CYST | TGLs = 5-11 | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC | TGLs = 1,2,3-8+9+10 | | |
| Note: HEPATOCLR ADEN | TGLs = 1,2,3-10 | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA | TGLs = 6-12 | | |
| Pancreas | | Hemorrhage | Moderate |
| | Artery | Inflammation | Chronic, Mild |
| Note: HEMORRHAGE | TGLs = 4-7+10 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6317

TRT#: 7

SEX: Male

DAY ON TEST: 688

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 4-7+10

| | | | |
|---------|-------------|----------------------------------|----------|
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Stomach | Forestomach | Hemorrhage | Moderate |
| | Glandular | Hemorrhage | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6318

TRT#: 7

SEX: Male

DAY ON TEST: 641

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|--------------------|-------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Rectum | Intestine Small - Duodenum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | |
|-------------|---------------------------|--------|
| Gallbladder | Intestine Small - Jejunum | Thymus |
|-------------|---------------------------|--------|

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2-8+9

Note: HEPATOCLR ADEN TGLs = 1,2-8+9

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Mild

Note: HEMA CELL PROL TGLs = 3-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6318

TRT#: 7

SEX: Male

DAY ON TEST: 641

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6319

TRT#: 7

SEX: Male

DAY ON TEST: 404

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------------------|------------|----------------------------------|--------------------|
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| Note: CYTOMEGALY TGLs = 2,3-1 | | | |
| Note: C O DEATH: TOXIC HEPATOPATHY | | | |
| Lymph Node | Mandibular | Hyperplasia | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

Animal Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6320

TRT#: 7

SEX: Male

DAY ON TEST: 682

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|--------------------------|
| Blood Vessel | Aorta | Inflammation | Chronic Active, Moderate |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8+9 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3- 8+9 | | | |
| Lymph Node | | | |
| Note: MAND L N:NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6320

TRT#: 7

DOSE: 30 PPM 0-10

SEX: Male

DISP: Natural Death

DAY ON TEST: 682

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6321

TRT#: 7

SEX: Male

DAY ON TEST: 573

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|--------------------------|-------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| Intestine Small | Jejunum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Note: C O DEATH HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Lung | Bronchus | Metaplasia | Squamous, Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6321

TRT#: 7

SEX: Male

DAY ON TEST: 573

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Mild

Thyroid Gland

Follicle

Hyperplasia

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6322

TRT#: 7

SEX: Male

DAY ON TEST: 654

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|----------------------|
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS
 Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;
 Note: HEPATOCLR CARC TGLs = 1,2,3-1+7+8
 Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8

| | | | |
|------------|------------|----------------------------------|----------|
| Lymph Node | Mandibular | Fibrosis | Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6323

TRT#: 7

SEX: Male

DAY ON TEST: 450

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-------------|--------------|----------------------------------|---------------|
| Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Single |

Note: C O DEATH:HEPATOCELLULAR ADENOMAS;GLOMERULONEPHRITIS;

Note: HEPATOCLR ADEN TGLs = 3-1

Note: SALIVARY GLAND INFLAMMATION

| | | | |
|-----------------|------------|-----------|--------|
| Lymph Node | Mandibular | Abscess | Marked |
| Salivary Glands | | Abscess | Marked |
| | | Bacterium | |

Note: BACTERIUM TGLs = 1-7

Note: ABSCESS TGLs = 1-7

| | | | |
|--------|--|----------------------------------|--------|
| Spleen | | Hematopoietic Cell Proliferation | Marked |
|--------|--|----------------------------------|--------|

Note: HEMA CELL PROL TGLs = 2-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6324

TRT#: 7

SEX: Male

DAY ON TEST: 573

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-----------|--------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7+8 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7+8 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6325

TRT#: 7

SEX: Male

DAY ON TEST: 642

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|------------|--------|
| Lymph Node | Thymus |
|------------|--------|

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|-------------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Intest Large | | | |
| Note: NO COORESP LESION FOR CECAL NODULE NOTED AT TRIM | | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-9+10 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7+8 | | | |
| Lymph Node | | | |
| Note: MAND LN: MISSING | | | |
| Pancreas | | Infarct | Moderate |
| Note: INFARCT TGLs = 3-11 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6325

TRT#: 7

SEX: Male

DAY ON TEST: 642

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6326

TRT#: 7

SEX: Male

DAY ON TEST: 676

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|--------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

AUTO PRECLUDES DIAG.

| |
|---------------------------|
| Intestine Small - Jejunum |
|---------------------------|

OBSERVATIONS

| | | | |
|-----------------|----------|------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Duodenum | Ulcer | Mild |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Note: HEPATOCLR ADEN TGLs = 1,2,3-8+9

Note: GLOMERULONEPHRITIS

Lymph Node

Note: MAND L N: NORMAL

Spleen

Note: HEMA CELL PROL TGLs = 4-7

Stomach

Forestomach

Note: PAPILOMA SQUA TGLs = 5-10

Hematopoietic Cell Proliferation

Mild

Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6327

TRT#: 7

SEX: Male

DAY ON TEST: 625

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node | Nose | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|-------------------------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: GLOMERULONEPHRITIS; LUNG INFLAMMATION | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| | Alveolus | Inflammation | Acute, Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6328

TRT#: 7

SEX: Male

DAY ON TEST: 580

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Jejunum
Nose
Prostate
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Islets, Pancreatic
Pancreas
Salivary Glands
Testes
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Skin
Thymus

Bone Marrow
Gallbladder
Intestine Small - Ileum
Lymph Node
Pituitary Gland
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Intestine Large

Kidney
Liver

Colon
Rectum

Parasite Metazoan
Parasite Metazoan
Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma

Chronic, Moderate
Moderate
Minimal
Multiple
Multiple

Note: HEPATOCLR ADEN TGLs = 1,2-7+8

Note: HEPATOCLR CARC TGLs = 1,2-7+8

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6329

TRT#: 7

SEX: Male

DAY ON TEST: 582

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | |
|--|----------------------------------|-------------------------------------|
| Kidney | Nephropathy | Chronic, Mild |
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7+8 | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-1+7+8] | | |
| Lung | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Prostate | Inflammation | Suppurative, Minimal |
| Spleen | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6330

TRT#: 7

SEX: Male

DAY ON TEST: 706

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|-------------------------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7+8 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6331

TRT#: 7

SEX: Male

DAY ON TEST: 464

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Intestine Large - Rectum

OBSERVATIONS

| | | |
|---|--------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Single |
| | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR ADEN TGLs = 1-7 | | |
| Note: TOXIC HEPATOPATHY | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMA; | | |
| [Hepatocellular Carcinoma TGLS = 1-7] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6332

TRT#: 7

SEX: Male

DAY ON TEST: 461

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lung

Nose

Parathyroid Gland

Prostate

Stomach - Forestomach

Stomach - Glandular

Testes

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Pituitary Gland

Salivary Glands

Thymus

AUTO PRECLUDES DIAG.

Islets, Pancreatic

Pancreas

OBSERVATIONS

Kidney

Nephropathy

Chronic, Mild

Liver

Cytomegaly

Moderate

Fatty Change

Minimal

Hepatocellular Adenoma

Multiple

Note: LYMPHOCYTIC LYMPHOSARCOMA; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Note: [HEPATOCLR ADEN] TGLs = 4-1

Lymph Node

Mesenteric

Lymphoma Malignant Lymphocytic

Note: MAND L N: MISSING

Note: [LYMPH MAL LYMP] TGLs = 2,3-7

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Parasite Metazoan

Spleen

Lymphoma Malignant Lymphocytic

Note: [LYMPH MAL LYMP] TGLs = 1-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:58
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6333 TRT#: 7 SEX: Male DAY ON TEST: 531
DOSE: 30 PPM 0-10 DISP: Moribund Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Eye |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-----------|------------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3-1 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| [Alveolar/Bronchiolar Adenoma TGLS = 1-2] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6334

TRT#: 7

SEX: Male

DAY ON TEST: 531

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Epididymis

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|---------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mandibular | Infiltration Cellular | Histiocyte, Minimal |
| Note: ECTASIA TGLs = 5-4 | | | |
| Note: INFILTRAT CELL TGLs = 4-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6335

TRT#: 7

SEX: Male

DAY ON TEST: 531

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|---------------|
| Kidney | Fat | Necrosis | Minimal |
| | | Nephropathy | Chronic, Mild |
| Note: NECROSIS TGLs = 4-7 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1 | | | |
| Note: C O MORB: HEPATOCELLULAR CARCINOMA; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6336

TRT#: 7

SEX: Male

DAY ON TEST: 679

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|-----------------|--------|--------------------------------|-------------------|
| Adrenal Gland | Cortex | Lymphoma Malignant Lymphocytic | |
| Heart | | Necrosis | Mild |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | | Lymphoma Malignant Lymphocytic | |
| | | Necrosis | Coagulative, Mild |

Note: LYMPHOCYTIC LYMPHOMA; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR CARCINOMA; TOXIC HEPATOPATHY;

Note: HEPATOCLR CARC TGLs = 2,3-9

Note: LYMPH MAL LYMP TGLs = 2-8+9

| | | | |
|------|--|--------------------------------|--|
| Lung | | Lymphoma Malignant Lymphocytic | |
|------|--|--------------------------------|--|

| | | | |
|------------------------|--|--|--|
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |

| | | | |
|--------|--|--------------------------------|--|
| Spleen | | Lymphoma Malignant Lymphocytic | |
|--------|--|--------------------------------|--|

Note: LYMPH MAL LYMP TGLs = 1-7

| | | | |
|---------------|----------|-------------|------------------|
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
|---------------|----------|-------------|------------------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6336

TRT#: 7

DOSE: 30 PPM 0-10

SEX: Male

DISP: Natural Death

DAY ON TEST: 679

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6337

TRT#: 7

SEX: Male

DAY ON TEST: 587

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | |
|---------------------------|------------|-----------------|
| Intestine Small - Jejunum | Lymph Node | Pituitary Gland |
|---------------------------|------------|-----------------|

OBSERVATIONS

| | | | |
|--------|-----------|--------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: HEPATOCLR ADEN TGLs = 1,2,3-1+8+9

Note: TOXIC HEPATOPATHY

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2,3-8+9

Lymph Node

Note: MAND L N:MISSING

Spleen

| | |
|----------------------------------|----------|
| Hemangiosarcoma | |
| Hematopoietic Cell Proliferation | Moderate |

[Hemangiosarcoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6338

TRT#: 7

SEX: Male

DAY ON TEST: 659

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

AUTO PRECLUDES DIAG.

| | |
|-------------|-------------------------|
| Gallbladder | Intestine Large - Cecum |
|-------------|-------------------------|

OBSERVATIONS

| | | | |
|--|----------------|----------------------------------|-------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN | TGLs = 1,2,3-1 | | |
| Note: HEPATOCLR CARC | TGLs = 1,2,3-1 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicular Cel | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6338

TRT#: 7

SEX: Male

DAY ON TEST: 659

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:58

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6339

TRT#: 7

SEX: Male

DAY ON TEST: 591

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|-------------------------|
| Adrenal Gland | Medulla | Hyperplasia | Minimal |
| Blood Vessel | Aorta | Inflammation | Chronic Active, Minimal |
| Gallbladder | | Inflammation | Chronic Active, Mild |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6339

TRT#: 7

SEX: Male

DAY ON TEST: 591

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6340

TRT#: 7

SEX: Male

DAY ON TEST: 496

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|-------------------------------------|
| Intest Small | | | |
| Note: NO CORRESP LESION FOR SOFTNESS AND BLACKNESS OF | | | |
| Note: JEJUNUM THAT WAS NOTED AT NECROPSY | | | |
| Kidney | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| Note: GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-1+7] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6341

TRT#: 7

SEX: Male

DAY ON TEST: 609

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Stomach | Glandular, Mucosa | Hyperplasia | Mild |
| Note: HYPERPLASIA TGLs = 4-4+8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6341

TRT#: 7

SEX: Male

DAY ON TEST: 609

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6342

TRT#: 7

SEX: Male

DAY ON TEST: 420

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Kidney | Lung |
| Lymph Node | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------|-----------------|
| Intestine Large - Cecum | Islets, Pancreatic | Pituitary Gland |
|-------------------------|--------------------|-----------------|

AUTO PRECLUDES DIAG.

Nose

INSUFFICIENT TISSUE

Spleen

OBSERVATIONS

| | | |
|--|------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| Note: [HEPATOCLR ADEN] TGLs = 1-1+7 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA; TOXIC HEPATOPATHY | | |
| Lung | | |
| Note: TO TISSUE HANDLING ARTIFACT | | |
| Note: MICROSCOPIC APPEARANCE OF LUNG ASCIBED | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6343

TRT#: 7

SEX: Male

DAY ON TEST: 641

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| | | Thrombosis | |

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR CARC TGLs = 1,2-7

Note: HEPATOCLR ADEN TGLs = 1,2-1+7+8

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis Minimal
Hyperkeratosis Minimal

Spleen

Parasite Metazoan
Hematopoietic Cell Proliferation Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6343

TRT#: 7

SEX: Male

DAY ON TEST: 641

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6344

TRT#: 7

SEX: Male

DAY ON TEST: 609

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-------------|-------------------------|--------|--|
| Gallbladder | Intestine Large - Cecum | Thymus | |
|-------------|-------------------------|--------|--|

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 2,3,4-1+9+10 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-1+9+10 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: PARASITE META TGLs = 6-11 | | | |
| Note: ACANTHOSIS TGLs = 6-2+11 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6344

TRT#: 7

SEX: Male

DAY ON TEST: 609

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERKERATOSIS TGLs = 6-2+11

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6345

TRT#: 7

SEX: Male

DAY ON TEST: 540

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|--------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Epididymis | Gallbladder | Heart | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Prostate | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Urinary Bladder |

MISSING

| | | | |
|-------------------|-----------------|-------------------------|------------|
| Brain | Esophagus | Intestine Small - Ileum | Lymph Node |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Thymus |
| Thyroid Gland | Trachea | | |

OBSERVATIONS

| | | | |
|---|-----------|------------------------|---------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6346

TRT#: 7

SEX: Male

DAY ON TEST: 655

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Lung
Stomach - Glandular

Bone
Heart
Intestine Small - Duodenum
Prostate
Testes

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Skin
Thymus

MISSING

Brain
Parathyroid Gland
Trachea

Esophagus
Pituitary Gland

Lymph Node
Salivary Glands

Nose
Thyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Kidney
Liver

Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia

Chronic, Moderate
Moderate
Minimal
Multiple
Multiple
Minimal

Bile Duct

Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7+8

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2,3-1+7+8

Lymph Node

Note: MAND L N: MISSING

Pancreas

Artery

Inflammation

Chronic, Moderate

Note: INFLAMMATION TGLs = 4-8

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6347

TRT#: 7

SEX: Male

DAY ON TEST: 665

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Moderate |
| Note: HEPATOCLR ADEN TGLs = 1,2-1+7+9 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-1+7+9 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lung | Mediastinum | Inflammation | Chronic Active, Mild |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 3-8 | | | |
| Pancreas | Artery | Inflammation | Chronic, Marked |
| Note: INFLAMMATION TGLs = 4-9 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6348

TRT#: 7

SEX: Male

DAY ON TEST: 530

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Trachea | | |

MISSING

Pituitary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum Urinary Bladder

OBSERVATIONS

| | | | |
|---|--------------|------------------------|-------------------|
| Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| Kidney | | Nephropathy | Chronic, Moderate |
| Note: NO CORRESP LESION FOR KIDNEY FOCUS SEEN AT NECROPSY | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 2,3,4,5-1+7

Note: GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis

Minimal

Spleen

Hematopoietic Cell Proliferation

Mild

Thyroid Gland

Follicle

Hyperplasia

Nodular, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6349

TRT#: 7

SEX: Male

DAY ON TEST: 648

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Prostate
Testes

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Skin
Trachea

Bone
Gallbladder
Intestine Large - Rectum
Nose
Stomach - Forestomach

Bone Marrow
Heart
Intestine Small - Duodenum
Pancreas
Stomach - Glandular

MISSING

Esophagus
Salivary Glands

Lymph Node
Thymus

Parathyroid Gland
Thyroid Gland

Pituitary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

Urinary Bladder

OBSERVATIONS

Kidney
Liver

Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis

Chronic, Moderate
Moderate
Minimal
Multiple
Multiple
Coagulative, Moderate

Note: HEPATOCLR ADEN TGLs = 1,2,3-1

Note: TOXIC HEPATOPATHY

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2,3-1+7+8

Lung
Lymph Node

Hepatocellular Carcinoma

Metastatic (Uncertain Primary Site)

Note: MAND L N: MISSING

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6350

TRT#: 7

SEX: Male

DAY ON TEST: 664

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Islets, Pancreatic | Kidney | Nose | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

| | |
|---------------------------|--------|
| Intestine Small - Jejunum | Thymus |
|---------------------------|--------|

AUTO PRECLUDES DIAG.

| |
|-------------------------|
| Intestine Small - Ileum |
|-------------------------|

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|--------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: [HEPATOCLR CARC] TGLs = 1,2-1+8 | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 3-2 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 5-7 | | | |
| Pancreas | | Infarct | Marked |
| | Artery | Inflammation | Chronic, Marked |
| Note: INFLAMMATION TGLs = 4-7 | | | |
| Note: INFARCT TGLs = 4-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6350

TRT#: 7

SEX: Male

DAY ON TEST: 664

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen
Thyroid Gland

Follicle

Parasite Metazoan
Hematopoietic Cell Proliferation
Hyperplasia

Moderate
Nodular, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6351

TRT#: 8

SEX: Male

DAY ON TEST: 531

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|---------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMA, CARCINOMA; TOXIC [Hepatocellular Carcinoma TGLS = 1,2-1] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 3-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6351

TRT#: 8

DOSE: 30 PPM 10-10

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 531

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6352

TRT#: 8

SEX: Male

DAY ON TEST: 524

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|-------------------------|
| Kidney | Glomerulus | Infiltration Cellular | Mononuclear CI, Mild |
| | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Infiltration Cellular | Mononuclear CI, Mild |
| <p>Note: C O MORB: HEPATOCELLULAR ADENOMA, CARCINOMA; Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS Note: HEPATOCLR ADEN TGLs = 1,2-1</p> | | | |
| Lymph Node | | | |
| <p>Note: MAND L N: NORMAL</p> | | | |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

| | | | |
|------------------------|---|--|--|
| ANIMAL ID: 6353 | TRT#: 8 DOSE: 30 PPM 10-10 | SEX: Male DISP: Natural Death | DAY ON TEST: 445 HISTO: |
|------------------------|---|--|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Trachea |

MISSING

| | | | |
|-------------------|----------------------------|---------------------------|---------------|
| Gallbladder | Intestine Small - Duodenum | Intestine Small - Jejunum | Lymph Node |
| Parathyroid Gland | Pituitary Gland | Prostate | Thyroid Gland |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|--|--|--|
| Intest Small Note: WERE PRESENT AT TRIM; APPARENTLY WERE LOST IN PROCESSING Note: DUODENUM, JEJUNUM WERE MISSING FROM SLIDE #4, BUT | | | |
| Liver | | Cytomegaly Fatty Change Hepatocellular Carcinoma Necrosis | Moderate Minimal Multiple Coagulative, Moderate |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY Note: HEPATOCLR CARC TGLs = 1-1+7 | | | |
| Lymph Node Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6354

TRT#: 8

SEX: Male

DAY ON TEST: 498

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Intest Small

Note: ILEUM WAS MISSING ON SLIDE #4 AND MARKED PRESENT AT

Note: TRIM; APPARENTLY LOST IN PROCESSING

Liver

| | |
|--------------------------|----------|
| Cytomegaly | Moderate |
| Fatty Change | Minimal |
| Hepatocellular Adenoma | Single |
| Hepatocellular Carcinoma | Multiple |

Note: HEPATOCLR CARC TGLs = 1-1+7

Note: TOXIC HEPATOPATHY

Note: C O DEATH: HEPATOCELLULAR CARCINOMAS, ADENOMA;

Note: HEPATOCLR ADEN TGLs = 1-1

Lymph Node

Note: MAND L N: NORMAL

Skin

| | |
|-------------------|------------------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |
| Hyperplasia | Nodular, Minimal |

| | |
|---------------|----------|
| Thyroid Gland | Follicle |
|---------------|----------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6354

TRT#: 8

SEX: Male

DAY ON TEST: 498

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6355

TRT#: 8

SEX: Male

DAY ON TEST: 400

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Lymph Node

OBSERVATIONS

| | | | |
|---|--------------|----------------------------------|---------------------|
| Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6356

TRT#: 8

SEX: Male

DAY ON TEST: 373

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 2-1 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6357

TRT#: 8

SEX: Male

DAY ON TEST: 493

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|---|-------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: NO CORRESP LESION FOUND FOR HEPATIC RIGHT LOBE MASS FOUND | | | |
| Note: AT NECROPSY | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY; | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1+7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6357

TRT#: 8

DOSE: 30 PPM 10-10

SEX: Male

DISP: Natural Death

DAY ON TEST: 493

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6358

TRT#: 8

SEX: Male

DAY ON TEST: 500

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Ileum
Lymph Node
Pituitary Gland
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Intestine Small - Jejunum
Nose
Prostate
Testes
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Thymus

Bone Marrow
Gallbladder
Intestine Small - Duodenum
Lung
Parathyroid Gland
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Intestine Large
Kidney
Liver

Colon

Parasite Metazoan
Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis

Chronic, Mild
Moderate
Minimal
Multiple
Multiple
Coagulative, Minimal

Note: HEPATOCLR ADEN TGLs = 1-1+7

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2,3-7

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis
Hyperkeratosis
Hematopoietic Cell Proliferation

Minimal
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6359

TRT#: 8

SEX: Male

DAY ON TEST: 363

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Bone Marrow
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Brain
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Salivary Glands
Testes
Urinary Bladder

Blood
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Spleen
Thymus

Bone
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pituitary Gland
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Liver

Basophilic Focus
Cytomegaly
Fatty Change
Hepatocellular Adenoma

Moderate
Minimal
Multiple

Note: HEPATOCLR ADEN TGLs = 1-1+7

Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Lymph Node

Note: AND L N: NORMAL

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6360

TRT#: 8

SEX: Male

DAY ON TEST: 353

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Lung

Lymph Node

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Prostate

Salivary Glands

Spleen

Stomach - Forestomach

Stomach - Glandular

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Liver

Cytomegaly

Moderate

Fatty Change

Minimal

Hepatocellular Adenoma

Multiple

Note: HEPATOCLR ADEN TGLs = 1,2-7

Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Parasite Metazoan

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6361

TRT#: 8

SEX: Male

DAY ON TEST: 513

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|---------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS,CARCINOMAS | | | |
| Note: GLOMERULONEPHRITIS | | | |
| [Hepatocellular Adenoma TGLs = 1,2,3-1+7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 4-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6362

TRT#: 8

SEX: Male

DAY ON TEST: 372

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla |
|------------------------|-------------------------|

OBSERVATIONS

| | | | |
|--|-------------|------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 1,2,3-1+7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Stomach | Forestomach | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 4-8] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6363

TRT#: 8

SEX: Male

DAY ON TEST: 531

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-----------------|--------|--|--|
| Pituitary Gland | Thymus | | |
|-----------------|--------|--|--|

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | Bile Duct | Hepatocellular Adenoma | Multiple |
| | | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Lymph Node | Mandibular, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 5-4 | | | |
| [Hematopoietic Cell Proliferation TGLS = 4-6] | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6364

TRT#: 8

SEX: Male

DAY ON TEST: 508

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|-----------|------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3,4-1+7 | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6365

TRT#: 8

SEX: Male

DAY ON TEST: 496

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|-----------------|
| Gallbladder | Pituitary Gland |
|-------------|-----------------|

AUTO PRECLUDES DIAG.

Intestine Large - Rectum

OBSERVATIONS

Intest Small

Note: OF JEJUNUM NOTED AT NECROPSY

Note: NO CORRESP LESION FOR FLATNESS AND BLACK COLOR

Intestine Large

Colon

Parasite Metazoan

Liver

Cytomegaly

Moderate

Fatty Change

Minimal

Hepatocellular Adenoma

Multiple

Hepatocellular Carcinoma

Multiple

Note: HEPATOCLR ADEN TGLs = 2-1

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 2,3-1+7

Note: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Spleen

Hematopoietic Cell Proliferation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6365

TRT#: 8

SEX: Male

DAY ON TEST: 496

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6366

TRT#: 8

SEX: Male

DAY ON TEST: 625

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------------------|
| Harderian Gland | | Adenoma | |
| Heart | Valve | Inflammation | Chronic Active, Mild |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7+9 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-4+10 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6367

TRT#: 8

SEX: Male

DAY ON TEST: 345

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Nose | Pancreas | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Urinary Bladder |

MISSING

| | | | |
|-----------|-------------------|---------------|---------|
| Esophagus | Parathyroid Gland | Thyroid Gland | Trachea |
|-----------|-------------------|---------------|---------|

AUTO PRECLUDES DIAG.

| | |
|-------------------------|-------------------------|
| Intestine Large - Colon | Intestine Small - Ileum |
|-------------------------|-------------------------|

OBSERVATIONS

| | | |
|-------|--------------------------|-----------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Single |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Moderate |
| | Thrombosis | |

Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMA;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 2,4-1

[Hepatocellular Carcinoma TGLs = 1,3,4-7]

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6368

TRT#: 8

SEX: Male

DAY ON TEST: 494

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-------------|-----------------|--------|--|
| Gallbladder | Pituitary Gland | Thymus | |
|-------------|-----------------|--------|--|

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2-1 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6369

TRT#: 8

SEX: Male

DAY ON TEST: 572

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|---------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | | |
|-------------|----------------------------|-------------------------|-----------------|
| Gallbladder | Intestine Small - Duodenum | Intestine Small - Ileum | Pituitary Gland |
| Thymus | | | |

OBSERVATIONS

| | | | |
|-----------------|-----------|------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | Bile Duct | Hepatocellular Adenoma | Multiple |
| | | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Moderate |

Note: HEPATOCLR ADEN TGLs = 2,3,4-8+9+10

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; GLOMERULONEPHRITIS

Lymph Node

Note: MAND L N: NORMAL

Preputial Gland

Duct

Dilatation

Mild

Note: DILATATION TGLs = 1-11

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6370

TRT#: 8

SEX: Male

DAY ON TEST: 627

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Parathyroid Gland | Prostate | Salivary Glands | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |

MISSING

| | | | |
|-----------------|-------------------------|------------|-----------------|
| Gallbladder | Intestine Small - Ileum | Lymph Node | Pituitary Gland |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--------|------------|------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Acute, Moderate |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |
| | | Thrombosis | |

Note: GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 2,3-7+8+9+10

Note: C O MORB:HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: MISSING

| | | | |
|----------|-------------|----------------------------------|----------|
| Pancreas | Acinus | Atrophy | Minimal |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Stomach | Forestomach | Acanthosis | Mild |
| | Forestomach | Hyperkeratosis | Mild |

[Acanthosis TGLS = 1-4+11]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6370

TRT#: 8

SEX: Male

DAY ON TEST: 627

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLS = 1-4+11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6371

TRT#: 8

SEX: Male

DAY ON TEST: 531

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Salivary Glands
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Spleen
Thymus

Bone
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pituitary Gland
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Glandular
Trachea

OBSERVATIONS

Liver

Basophilic Focus
Cytomegaly
Fatty Change
Hepatocellular Adenoma

Moderate
Minimal
Multiple

Note: BASOPH FOCUS TGLs = 1,2,3-1

Note: CYTOMEGALY TGLs = 1,2,3-1

Note: C O MORB: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6372

TRT#: 8

SEX: Male

DAY ON TEST: 470

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | | | |

MISSING

| | | | |
|------------------------|-------------------------|-------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Gallbladder | Pituitary Gland |
| Prostate | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------|-----------|--------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: HEPATOCLR CARC TGLs = 1,2,3-7+8

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 1,2,3,4-1+7+8

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis Minimal

Hyperkeratosis Minimal

Spleen

Hematopoietic Cell Proliferation Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6373

TRT#: 8

SEX: Male

DAY ON TEST: 519

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--------|------------|--------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: HEPATOCLR CARC TGLs = 1,2-7

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: HEPATOCLR ADEN TGLs = 1,3,4,5-1+7

| | | | |
|------------|------------|----------------------------------|------|
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
|------------|------------|----------------------------------|------|

Note: MAND L N: NORMAL

Note: HEMA CELL PROL TGLs = 6-4

| | | | |
|--------|--|----------------------------------|---------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6373

TRT#: 8

DOSE: 30 PPM 10-10

SEX: Male

DISP: Natural Death

DAY ON TEST: 519

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6374

TRT#: 8

SEX: Male

DAY ON TEST: 384

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------|--------|--------------------------|----------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 2,3,4-1+7

Note: HEPATOCLR CARC TGLs = 2,3-7

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6375

TRT#: 8

SEX: Male

DAY ON TEST: 440

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-------|----------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2-1+7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6376

TRT#: 8

SEX: Male

DAY ON TEST: 635

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1+7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| [Alveolar/Bronchiolar Carcinoma TGLS = 3-2] | | | |
| Lymph Node | Pancreatic | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 4-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6376

TRT#: 8

SEX: Male

DAY ON TEST: 635

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6377

TRT#: 8

SEX: Male

DAY ON TEST: 374

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | |
|-------------|-------------------------|-----------------|
| Gallbladder | Intestine Small - Ileum | Pituitary Gland |
|-------------|-------------------------|-----------------|

AUTO PRECLUDES DIAG.

Lymph Node

OBSERVATIONS

| | | |
|---|----------------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7+8 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | |
| Lymph Node | | |
| Note: MAND L N: MISSING | | |
| Spleen | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6378

TRT#: 8

SEX: Male

DAY ON TEST: 526

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|--------------------|
| Adrenal Gland | Cortex | Infarct | Marked |
| | Medulla | Infarct | Marked |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | Artery | Inflammation | Subacute, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |

Note: HEPATOCLR ADEN TGLs = 1,3-1

Note: C O MORB: HEPATOCELLULAR ADENOMA, CARCINOMA;

Note: TOXIC HEPATOPATHY

[Hepatocellular Carcinoma TGLS = 1,2,3-1+7]

| | | | |
|------|--|--------------------------|--------------------|
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
|------|--|--------------------------|--------------------|

Note: HEPATOCLR CARC TGLs = 4,5-2

| | | | |
|---------------|----------------|----------------------------------|---------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicular Cel | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6378

TRT#: 8

SEX: Male

DAY ON TEST: 526

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6379

TRT#: 8

SEX: Male

DAY ON TEST: 363

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |

Note: TOXIC HEPATOPATHY;

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 2,3,4-1+7+8

Note: HEPATOCLR CARC TGLs = 1,2,3-1+8+9

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6380

TRT#: 8

SEX: Male

DAY ON TEST: 565

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Nose | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Intestine Small - Ileum

OBSERVATIONS

| | | | |
|---|-------------------|------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | Artery | Inflammation | Subacute, Moderate |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-8 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA | | | |
| [Hepatocellular Adenoma TGLS = 2,3,4-8] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Pancreas | Artery | Inflammation | Chronic, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|--|---|--|--|
| ANIMAL ID: 6380 | TRT#: 8 DOSE: 30 PPM 10-10 | SEX: Male DISP: Natural Death | DAY ON TEST: 565 HISTO: |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Stomach | Forestomach | Acanthosis | Mild |
| | Forestomach | Hyperkeratosis | Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6381

TRT#: 8

SEX: Male

DAY ON TEST: 512

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Bone | Bone Marrow | Epididymis | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Nose | Prostate | Stomach - Forestomach | Stomach - Glandular |
| Testes | Urinary Bladder | | |

MISSING

| | | | |
|------------------------|-------------------------|----------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Gallbladder | Heart | Intestine Small - Duodenum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Thymus | Thyroid Gland | Trachea | |

OBSERVATIONS

| | | |
|--|--------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Carcinoma | Single |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMA; TOXIC HEPATOPATHY | | |
| Lymph Node | | |
| Note: MAND L N: MISSING | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6382

TRT#: 8

SEX: Male

DAY ON TEST: 580

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Bone | Brain | Epididymis | Esophagus |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|-----------------|-----------|----------------------------------|-------------------|
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Mild |

Note: GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 1,2-7+8+9+10

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Spleen

Hematopoietic Cell Proliferation

Moderate

Thyroid Gland

Follicle

Hyperplasia

Nodular, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6383

TRT#: 8

SEX: Male

DAY ON TEST: 461

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Small - Jejunum
Pancreas
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Cecum
Islets, Pancreatic
Stomach - Forestomach

Bone
Intestine Small - Duodenum
Kidney
Stomach - Glandular

Bone Marrow
Intestine Small - Ileum
Nose
Testes

MISSING

Brain
Lung
Prostate
Thyroid Gland

Esophagus
Lymph Node
Salivary Glands
Trachea

Gallbladder
Parathyroid Gland
Spleen

Heart
Pituitary Gland
Thymus

OBSERVATIONS

Intestine Large

Liver

Colon
Rectum

Parasite Metazoan
Parasite Metazoan
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis

Moderate
Minimal
Multiple
Multiple
Coagulative, Mild

Note: HEPATOCLR ADEN TGLs = 1-1+7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS,CARCINOMAS

Note: TOXIC HEPATOPATHY

[Hepatocellular Carcinoma TGLS = 1-1+7]

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6384

TRT#: 8

SEX: Male

DAY ON TEST: 574

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------------|----------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| | Colon | Ulcer | Moderate |
| Note: ULCER | TGLs = 5-7 | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR CARC | TGLs = 1,2,3-8 | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR ADEN | TGLs = 1,2,3-1+8 | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC | TGLs = 4-2 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6384

TRT#: 8

SEX: Male

DAY ON TEST: 574

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6385

TRT#: 8

SEX: Male

DAY ON TEST: 548

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Small - Ileum
Pancreas
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Small - Jejunum
Prostate

Bone
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach

Bone Marrow
Intestine Small - Duodenum
Nose
Testes

MISSING

Brain
Lymph Node
Thymus

Esophagus
Parathyroid Gland
Thyroid Gland

Heart
Pituitary Gland
Trachea

Lung
Salivary Glands

OBSERVATIONS

Intestine Large

Kidney
Liver

Cecum
Colon

Parasite Metazoan
Parasite Metazoan
Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hyperplasia
Necrosis

Chronic, Moderate
Moderate
Minimal
Multiple
Minimal
Coagulative, Minimal

Note: HEPATOCLR ADEN TGLs = 1,2-1

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Note: GLOMERULONEPHRITIS

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Spleen
Stomach

Glandular, Mucosa

Hematopoietic Cell Proliferation
Hyperplasia

Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6386

TRT#: 8

SEX: Male

DAY ON TEST: 639

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-----------|--------------------------|--------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 4-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6386

TRT#: 8

SEX: Male

DAY ON TEST: 639

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6387

TRT#: 8

SEX: Male

DAY ON TEST: 349

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 3,4-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 4-1+7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1,2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Erosion | Mild |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6388

TRT#: 8

SEX: Male

DAY ON TEST: 636

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|-------------------------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| [Hepatocellular Adenoma TGLS = 1,2-1+7] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Uncertain Primary Site) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6389

TRT#: 8

SEX: Male

DAY ON TEST: 342

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|------------|-----------------|
| Lymph Node | Pituitary Gland |
|------------|-----------------|

OBSERVATIONS

| | | |
|-------|------------------------|----------|
| Liver | Cytomegaly | Mild |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |

Note: [HEPATOCLR ADEN] TGLs = 1,2,3,4-1+7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: MISSING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6390

TRT#: 8

SEX: Male

DAY ON TEST: 639

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Trachea | Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------|-------------------|
| Intestine Small - Ileum | Islets, Pancreatic | Parathyroid Gland |
|-------------------------|--------------------|-------------------|

AUTO PRECLUDES DIAG.

| | |
|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Small - Jejunum |
|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|----------------------|
| Kidney | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| | | Thrombosis | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

| | | | |
|--|---|--|--|
| ANIMAL ID: 6390 | TRT#: 8 DOSE: 30 PPM 10-10 | SEX: Male DISP: Natural Death | DAY ON TEST: 639 HISTO: |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6391

TRT#: 8

SEX: Male

DAY ON TEST: 468

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|----------------------|
| Gallbladder | | | |
| Note: GALLBLADDER MISSING BUT COMMON BILE DUCT PRESENT & NORMAL | | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6391

TRT#: 8

SEX: Male

DAY ON TEST: 468

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6392

TRT#: 8

SEX: Male

DAY ON TEST: 501

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-----------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,3,4,5-1+7+8 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6393

TRT#: 8

SEX: Male

DAY ON TEST: 572

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR CARC TGLs = 1,2-7

Note: HEPATOCLR ADEN TGLs = 1,2-1+7

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|--------|--|----------------------------------|---------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6394

TRT#: 8

SEX: Male

DAY ON TEST: 622

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thymus | Trachea |
| Urinary Bladder | | | |

MISSING

Islets, Pancreatic

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|--------------------------|
| Blood Vessel | Aorta | Inflammation | Chronic Active, Moderate |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6395

TRT#: 8

SEX: Male

DAY ON TEST: 545

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pituitary Gland
Stomach - Glandular

Bone
Esophagus
Intestine Small - Duodenum
Nose
Prostate
Testes

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Salivary Glands
Trachea

MISSING

Gallbladder
Thymus

Heart

Lung

Skin

OBSERVATIONS

Kidney
Liver

Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma

Chronic, Mild
Moderate
Minimal
Multiple
Single

Note: HEPATOCLR CARC TGLs = 1,2-1

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 1,2-1

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Lymph Node

Mesenteric, Sinus

Ectasia

Marked

Note: ECTASIA TGLs = 3-4

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Mild

Thyroid Gland

Follicle

Hyperplasia

Nodular, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6396

TRT#: 8

SEX: Male

DAY ON TEST: 314

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Lung

Lymph Node

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Prostate

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Liver

Basophilic Focus

Clear Cell Focus

Cytomegaly

Moderate

Fatty Change

Minimal

Hepatocellular Adenoma

Single

Hepatocellular Carcinoma

Multiple

Necrosis

Coagulative, Moderate

Note: HEPATOCLR CARC TGLs = 1,2,3,4-7+8+9

Note: TOXIC HEPATOPATHY

Note: C O MORB: HEPATOCELLULAR ADENOMA, CARCINOMAS;

[Hepatocellular Adenoma TGLS = 2,3-9]

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6397

TRT#: 8

SEX: Male

DAY ON TEST: 623

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Testes | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

Adrenal Gland

Note: NO CORRESP LESION FOR ADRENAL ENLARGEMENT NOTED AT NECR

Kidney

Liver

| | |
|--------------------------|----------------------|
| Nephropathy | Chronic, Mild |
| Cytomegaly | Moderate |
| Fatty Change | Minimal |
| Hepatocellular Adenoma | Multiple |
| Hepatocellular Carcinoma | Multiple |
| Infiltration Cellular | Mixed Cell, Moderate |
| Necrosis | Coagulative, Mild |

Note: TOXIC HEPATOPATHY

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

[Hepatocellular Adenoma TGLS = 4,5,6-1]

[Hepatocellular Carcinoma TGLS = 4,5,6-1]

Lymph Node

Mesenteric, Sinus

Ectasia

Marked

Note: MAND L N: NORMAL

Note: ECTASIA TGLs = 2-4

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Spleen

Hematopoietic Cell Proliferation

Marked

Hyperplasia

Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6397

TRT#: 8

SEX: Male

DAY ON TEST: 623

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 1-1

[Hematopoietic Cell Proliferation TGLS = 1-1]

Thyroid Gland

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6398

TRT#: 8

SEX: Male

DAY ON TEST: 608

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Testes | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|----------------------|----------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Duodenum, Epithelium | Metaplasia | Squamous, Minimal |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN | TGLs = 1,3,4-1+8+9 | | |
| Note: HEPATOCLR CARC | TGLs = 1,4-1+9 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| Note: HEMA CELL PROL | TGLs = 2-7 | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|---------------------------|----------------------------|-------------------------|
| ANIMAL ID: 6398 | TRT#: 8 | SEX: Male | DAY ON TEST: 608 |
| | DOSE: 30 PPM 10-10 | DISP: Natural Death | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6399

TRT#: 8

SEX: Male

DAY ON TEST: 572

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Trachea | Urinary Bladder |

MISSING

Intestine Small - Ileum

AUTO PRECLUDES DIAG.

Gallbladder Intestine Small - Jejunum

OBSERVATIONS

| | | |
|--------|--------------------------|-------------------|
| Kidney | Nephropathy | Chronic, Moderate |
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| | Necrosis | Coagulative, Mild |
| | Thrombosis | |

Note: HEPATOCLR ADEN TGLs = 1,2,3-1+8

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR CARC TGLs = 1,2-7+8

Lymph Node

Note: MAND L N: NORMAL

| | | |
|---------------|----------------------------------|------------------|
| Spleen | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicle Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6400

TRT#: 8

SEX: Male

DAY ON TEST: 631

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Lung | Nose | Pituitary Gland | Prostate |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Testes |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------|-------------------|--------|
| Intestine Small - Ileum | Islets, Pancreatic | Parathyroid Gland | Thymus |
|-------------------------|--------------------|-------------------|--------|

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-------------------------|
| Blood Vessel | Aorta | Inflammation | Chronic Active, Minimal |
| Heart | Valve | Inflammation | Chronic Active, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 4,5,6-1 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| [Hepatocellular Adenoma TGLs = 4,5,6-1] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Pancreas | | Infarct | Moderate |
| [Infarct TGLs = 1-7] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hemangiosarcoma | |
| | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6400

TRT#: 8

SEX: Male

DAY ON TEST: 631

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangiosarcoma TGLS = 2,3-7]

[Hematopoietic Cell Proliferation TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6701

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 647

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone Marrow | Esophagus | Gallbladder |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Nose | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|-------------|--------------------------------|------|
| Adrenal Gland | Cortex | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 4-6 | | | |
| Bone | | Osteosarcoma | |
| Note: [OSTEOSARC] TGLs = 5-7 | | | |
| Brain | | Lymphoma Malignant Lymphocytic | |
| Harderian Gland | | Lymphoma Malignant Lymphocytic | |
| Heart | | Lymphoma Malignant Lymphocytic | |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Lymphoma Malignant Lymphocytic | |
| Liver | | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 3-1 | | | |
| Lung | | Lymphoma Malignant Lymphocytic | |
| Lymph Node | Mandibular | Lymphoma Malignant Lymphocytic | |
| | Mediastinal | Lymphoma Malignant Lymphocytic | |
| | Renal | Lymphoma Malignant Lymphocytic | |
| Note: OSTEOSARC OF VERTEBRAL COLUMN | | | |
| Note: LYMPH MAL LYMP TGLs = 2,6,7,8-2+3+6+8+10 | | | |
| Note: C O MORB: LYMPHOMA, LYMPHOCYTIC, MULTIPLE ORGANS; | | | |
| Ovary | | Lymphoma Malignant Lymphocytic | |
| Pancreas | | Lymphoma Malignant Lymphocytic | |
| Peripheral Nerve | Sciatic | Degeneration | Mild |
| | Sciatic | Lymphoma Malignant Lymphocytic | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6701

TRT#: 9

SEX: Female

DAY ON TEST: 647

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------------------|-------------|--------------------------------|---------|
| Skeletal Muscle | Hindlimb | Lymphoma Malignant Lymphocytic | |
| Skin | | Hyperkeratosis | Minimal |
| | Subcut Tiss | Lymphoma Malignant Lymphocytic | |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 1-11 | | | |
| Urinary Bladder | | Lymphoma Malignant Lymphocytic | |
| Uterus | | Lymphoma Malignant Lymphocytic | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6702

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Liver | Nose |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|---------------------------------------|---|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| Lung | Interstitialium | Inflammation | Chronic, Minimal |
| Lymph Node | Lumbar | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mandibular | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| | Pancreatic | Lymphoma Malignant Undifferentiated Cell Type | |
| | Renal | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF | TGLs = 1,3,4,7,8,9-3+4+7+8+9+10+11+14 | | |
| Ovary | Follicle | Cyst | |
| | Periovarn Tiss | Cyst | |
| Note: CYST | TGLs = 6-12 | | |
| Note: CYST | TGLs = 6-6 | | |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| [Lymphoma Malignant Undifferentiated Cell Type | TGLS = 2-1] | | |
| Thymus | | Lymphoma Malignant Undifferentiated Cell Type | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6702

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 5-6+13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6703

TRT#: 9

SEX: Female

DAY ON TEST: 533

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Salivary Glands
Thymus

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: NORMAL

Calvarium
Sternal

Myelofibrosis
Myelofibrosis

Mild
Mild

Pancreas
Note: C O MORB: PANCREATIC HYPOPLASIA

Hypoplasia

Marked

Skin
Uterus
Note: HYPERPLASIA TGLs = 1-6

Endometrium

Hyperkeratosis
Hyperplasia

Minimal
Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6704

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pancreas
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Thymus

OBSERVATIONS

Bone Marrow

Harderian Gland
Liver
 Note: LYMPH MAL MIXD TGLs = 1-7
Lymph Node
 Note: MAND L N: NORMAL
Skin

Uterus

Calvarium
Femoral
Sternal

Endometrium

Myelofibrosis
Myelofibrosis
Myelofibrosis
Hyperplasia
Lymphoma Malignant Mixed

Acanthosis
Parasite Metazoan
Hyperplasia

Mild
Minimal
Moderate
Nodular, Minimal

Minimal

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6705

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|---------------|-------------------|-------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCI SEEN AT TRIM | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Minimal |
| Note: HYPERPLASIA TGLs = 1-1 | | | |
| Stomach | | | |
| Note: NO CORRESP LESION FOR FORESTOMACH FOCUS NOTED AT NECROPSY | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6706

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|---------------|----------------------------------|-------------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Gallbladder | | Inflammation | Chronic Active, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: [HYPERPLASIA] TGLs = 2-8 | | | |
| Mesentery | | Hyperplasia | Lymphoid, Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Hyperplasia | Lymphoid, Mild |
| Note: [HYPERPLASIA] TGLs = 3-1 | | | |
| Stomach | | | |
| Note: NOTED AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR GLANDULAR STOMACH NODULE | | | |
| Thymus | | Hyperplasia | Lymphoid, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6707

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Pancreas
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Thymus

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: NORMAL
Skin

Sternal

Myelofibrosis

Mild

Spleen
Uterus
Note: HYPERPLASIA TGLs = 1-6

Endometrium

Acanthosis
Hyperkeratosis
Parasite Metazoan
Hyperplasia
Hyperplasia

Minimal
Minimal
Lymphoid, Mild
Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6708

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|------------------------------|-------------|-------------------|----------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Liver | | Clear Cell Focus | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6709

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Heart

Intestine Small - Duodenum

Kidney

Mammary Gland

Parathyroid Gland

Stomach - Glandular

Urinary Bladder

Bone

Intestine Large - Cecum

Intestine Small - Ileum

Liver

Nose

Pituitary Gland

Thymus

Brain

Intestine Large - Colon

Intestine Small - Jejunum

Lung

Ovary

Salivary Glands

Thyroid Gland

Esophagus

Intestine Large - Rectum

Islets, Pancreatic

Lymph Node

Pancreas

Stomach - Forestomach

Trachea

MISSING

Gallbladder

OBSERVATIONS

Adrenal Gland

Note: PHEOCHROM BGN TGLs = 3-7

Medulla

Pheochromocytoma Benign

Bone Marrow

Sternal

Myelofibrosis

Mild

Gallbladder

Note: GALLBLADDER MISSING BUT COMMON BILE DUCT PRESENT & NORMAL

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis

Minimal

Hyperkeratosis

Minimal

Parasite Metazoan

Hyperplasia

Lymphoid, Mild

Spleen

[Hyperplasia TGLS = 1-1]

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6710

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|--------------------------------|-------------------|-------------------|--------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 2-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6711

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--|-------------|---------------|-------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Necrotizing, Mild |
| Note: INFLAMMATION TGLs = 3-6 | | | |
| Ovary | | | |
| Note: NO CORRESP LESION FOR OVARIAN CYST NOTED AT NECROPSY | | | |
| Skin | | Acanthosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6712

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|--------------------------|----------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Brain | Hypothalamus | Compression | Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Lymphoma Malignant Mixed | |
| Note: [LYMPH MAL MIXD] TGLs = 5,6-1 | | | |
| Liver | | Lymphoma Malignant Mixed | |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Moderate |
| Note: INFILTRAT CELL TGLs = 1-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 3-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Mixed | |
| Note: [LYMPH MAL MIXD] TGLs = 2-1 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 4-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6713

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|-------------------|-------------------|----------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Mild |
| | Sternal | Myelofibrosis | Mild |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 2-6 | | Polyp Stromal | |
| [Hyperplasia TGLS = 2-6] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6714

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------------------|----------------|-------------------------|--------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Liver | | Eosinophilic Focus | Moderate |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Pituitary Gland | | Angiectasis | Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Squamous Cell Papilloma | |
| Note: PAPILOMA SQUA TGLs = 3-7 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6715

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Liver | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|-------------|-----------------------|----------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Kidney | | Infiltration Cellular | Lymphocyte, Moderate |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6716

TRT#: 9

SEX: Female

DAY ON TEST: 428

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-----------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Rectum |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

| | | | |
|---------------------------|-------------------------|-------------------------|-------------------------|
| Gallbladder | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum |
| Intestine Small - Jejunum | | | |

OBSERVATIONS

| | | | |
|--------------------------|-------------|-------------|-----------------|
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: C O DEATH: UNKNOWN | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6717

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------------|------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Mild |
| Liver | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 1-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 3-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6718

TRT#: 9

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Liver | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------|-----------------------|------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Mild |
| Kidney | | Infiltration Cellular | Lymphocyte, Mild |
| Liver | | | |
| Note: NO CORRESP LESION FOR LIVER FOCUS SEEN AT NECROPSY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6719

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|----------------|---------------|----------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Moderate |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL NODULE NOTED AT TRIM | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLEEN ENLARGEMENT SEEN AT NECROPSY | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 3-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6720

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|--------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|---------------|------------------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCI SEEN AT NECROPSY | | | |
| Intestine Small | Duodenum | Hyperplasia | Lymphoid, Mild |
| | Ileum | Hyperplasia | Mild |
| | Jejunum | Hyperplasia | Moderate |
| | Jejunum | Ulcer | Mild |
| Note: HYPERPLASIA TGLs = 5,6,7-9 | | | |
| Note: ULCER TGLs = 5-9 | | | |
| Liver | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 4-8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Thecoma Benign | |
| Note: THECOMA BGN TGLs = 3-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1,2-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6721

TRT#: 9

SEX: Female

DAY ON TEST: 612

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--------------------------------------|-------------|---------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | Subcut Tiss | Fibrosarcoma | |
| Note: C O MORB: FIBROSARCOMA OF SKIN | | | |
| Note: FIBROSARC TGLs = 1-8 | | | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 2-7 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6722

TRT#: 9

SEX: Female

DAY ON TEST: 533

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Pancreas
Skin
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Bone Marrow

Subcapsular
Calvarium
Femoral
Sternal

Hyperplasia
Myelofibrosis
Myelofibrosis
Myelofibrosis

Mild
Minimal
Minimal
Minimal

Lymph Node
Note: MAND L N: NORMAL

Uterus
Note: C O MORB: UNKNOWN
[Hyperplasia TGLS = 1-6]

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6723

TRT#: 9

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pancreas
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Liver

[Necrosis TGLS = 2-1+8]

Sternal

Myelofibrosis
Hepatocellular Carcinoma
Necrosis

Marked
Single
Coagulative, Marked

Lymph Node
Note: MAND L N: NORMAL

Pars Distalis

Adenoma
Acanthosis
Hyperplasia

Minimal
Lymphoid, Moderate

Pituitary Gland
Skin
Spleen
Note: HYPERPLASIA TGLs = 3-7

Endometrium

Hyperplasia

Cystic, Marked

Uterus
Note: HYPERPLASIA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6724

TRT#: 9

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------------------------|----------------------|---------------------------|------------------------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Moderate |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Lymph Node Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 2-6 | | | |
| Skin | | Acanthosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6725

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|----------------|-----------------------|----------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Lymph Node | Lumbar | Infiltration Cellular | Histiocyte, Moderate |
| | Mandibular | Infiltration Cellular | Histiocyte, Moderate |
| | Mediastinal | Infiltration Cellular | Histiocyte, Moderate |
| Note: INFILTRAT CELL TGLs = 1,2,3-3+7+8+10 | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 7-6 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Marked |
| Note: HYPERPLASIA TGLs = 8-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Moderate |
| Spleen | | | |
| Note: HYPERPLASIA TGLs = 4,5-9 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 6-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6726

TRT#: 9

SEX: Female

DAY ON TEST: 451

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Kidney |
| Liver | Nose | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Thymus | Thyroid Gland | Trachea |
| Uterus | | | |

MISSING

| | |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Gallbladder | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Ovary | Pancreas | Skin | Spleen |
| Stomach - Glandular | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------|--------------------------------|-------------------------------------|
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: C O DEATH: BRONCHIOLO-ALVEOLAR CARCINOMA | | | |
| Note: ALV BRON CARC TGLs = 1-2 | | | |
| Lymph Node | Mediastinal | Carcinoma | Metastatic (Uncertain Primary Site) |
| Note: MAND L N: NORMAL | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6727

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|----------------|----------------------------------|------------------|
| Adrenal Gland | Medulla | Hyperplasia | Minimal |
| Intestine Small | Jejunum | Adenocarcinoma | |
| [Adenocarcinoma TGLS = 5-8] | | | |
| Liver | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 4-9] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 3-6 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 1-7] | | | |
| [Hyperplasia TGLS = 1-7] | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6728

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|----------------|---------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Liver | | | |
| Note: NO CORRESP LESION FOR LIVER NODULE SEEN AT TRIM | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| [Cyst TGLS = 2-8] | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 1-6+9] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6729

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Eye | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|-------------|---------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Harderian Gland | | Adenoma | |
| [Adenoma TGLS = 3-5] | | | |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCI SEEN AT NECROPSY | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 2-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6730

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Esophagus |
| Gallbladder | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|----------------|-------------------|------------------|
| Adrenal Gland | Cortex | Cyst | |
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Mild |
| Heart | Coron Artery | Inflammation | Chronic, Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Hemangioma | |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: HEMANGIOMA TGLs = 1-7 | | | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLS = 3-1] | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6731

TRT#: 9

SEX: Female

DAY ON TEST: 548

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Skin |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|------------------|
| Liver | | Hematopoietic Cell Proliferation | Moderate |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Cystadenoma | |
| Salivary Glands | | Abscess | Marked |
| | | Bacterium | |
| Note: C O MORB: SALIVARY GLAND ABSCESS | | | |
| [Abscess TGLS = 1-7] | | | |
| [Bacterium TGLS = 1-7] | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 2-1] | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6732

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Spleen
Thyroid Gland

OBSERVATIONS

Bone Marrow
Note: [BASOPH FOCUS] TGLs = 3-7
Liver
Note: [BASOPH FOCUS] TGLs = 3-7
Lymph Node
Note: MAND L N: NORMAL
Ovary
Note: CYST TGLs = 2-6
Skin
Uterus
Note: HYPERPLASIA TGLs = 1-6

Calvarium
Femoral
Sternal
Periovarn Tiss
Endometrium

Myelofibrosis
Myelofibrosis
Myelofibrosis
Basophilic Focus
Cyst
Acanthosis
Parasite Metazoan
Hyperplasia

Minimal
Mild
Moderate
Moderate
Minimal
Cystic, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6733

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Ovary
Stomach - Forestomach
Trachea

MISSING

Lymph Node

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: MISSING
Pituitary Gland
Skin
Spleen
Note: HYPERPLASIA TGLs = 2-1
Uterus
Note: HYPERPLASIA TGLs = 1-6

Sternal
Pars Distalis
Endometrium

Myelofibrosis
Hyperplasia
Acanthosis
Hyperplasia
Hyperplasia

Minimal
Nodular, Moderate
Minimal
Lymphoid, Minimal
Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6734

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|-------------|-------------------|----------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLS = 1-1] | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| [Hyperplasia TGLS = 2,3-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6735

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Parathyroid Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Bone Marrow
Lymph Node
 Note: MAND L N: NORMAL
Ovary
 Note: CYST TGLs = 1-6
Pituitary Gland
Skin

Spleen
Uterus

Subcapsular
Sternal

Periovarn Tiss

Pars Distalis

Endometrium

Hyperplasia
Myelofibrosis

Cyst

Hyperplasia
Acanthosis
Hyperkeratosis
Parasite Metazoan
Hyperplasia
Hyperplasia

Mild
Mild

Nodular, Mild
Minimal
Minimal

Lymphoid, Mild
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6736

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Parathyroid Gland
Stomach - Glandular

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Pancreas
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Bone Marrow
Lymph Node
 Note: ECTASIA TGLs = 1-7
 Note: MAND L N: NORMAL
Ovary
 Note: CYST TGLs = 3-6
Skin
Spleen
 [Hyperplasia TGLs = 4-1]
Thyroid Gland
Uterus
 Note: HYPERPLASIA TGLs = 2-6

Sternal
Mesenteric, Sinus

Periovarn Tiss

Follicle
Endometrium

Myelofibrosis
Ectasia

Cyst

Acanthosis
Hyperplasia

Hyperplasia
Hyperplasia

Minimal
Minimal

Minimal
Lymphoid, Moderate

Nodular, Marked
Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6737

TRT#: 9

SEX: Female

DAY ON TEST: 575

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|-----------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Colon |
| Intestine Large - Rectum | Kidney | Lung | Lymph Node |
| Nose | Parathyroid Gland | Pituitary Gland | Skin |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Gallbladder | Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Ovary | Pancreas |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | | | |

OBSERVATIONS

| | | |
|--|---------------------|--------|
| Liver | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 3,4-1+9 | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Salivary Glands | Abscess | Marked |
| | Bacterium | |
| [Abscess TGLS = 1-8] | | |
| [Bacterium TGLS = 1-8] | | |
| Uterus | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 2-7 | | |
| Note: C O DEATH: HISTIOCYTIC SARCOMA; SALIV GL ABSCESS | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6738

TRT#: 9

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Pancreas
Skin
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: NORMAL

Sternal

Myelofibrosis

Minimal

Uterus
Note: HYPERPLASIA TGLs = 1-6

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6739

TRT#: 9

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|-------------|-----------------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Harderian Gland | | Hyperplasia | Nodular, Minimal |
| Kidney | | Infiltration Cellular | Mixed Cell, Mild |
| Liver | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6740

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Moderate |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCI SEEN AT NECROPSY | | | |
| Liver | | Clear Cell Focus | |
| Note: CLEAR CL FOCUS TGLs = 2-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Cyst | Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6741

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Skin
Thymus

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Parathyroid Gland
Spleen
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: NORMAL
Uterus

Sternal
Endometrium

Myelofibrosis
Hyperplasia
Sarcoma Stromal

Mild
Cystic, Mild

Note: [HYPERPLASIA] TGLs = 1-7
Note: [SARC STROMAL] TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6742

TRT#: 9

SEX: Female

DAY ON TEST: 533

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Pancreas
Skin
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow

Lymph Node
Note: MAND L N: NORMAL
Uterus
Note: HYPERPLASIA TGLs = 1-6

Femoral
Sternal

Endometrium

Myelofibrosis
Myelofibrosis

Hyperplasia

Minimal
Moderate

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6743

TRT#: 9

SEX: Female

DAY ON TEST: 723

DOSE: 0 PPM 0-0

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------|---------------|--|------------------|
| Adrenal Gland | Cortex | Lymphoma Malignant Lymphocytic | |
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Brain | | Infarct | Moderate |
| Harderian Gland | | Lymphoma Malignant Lymphocytic | |
| Liver | | Adenoma | |
| | | Lymphoma Malignant Lymphocytic | |
| | | [Lymphoma Malignant Lymphocytic TGLS = 2-1] | |
| Lung | | Lymphoma Malignant Lymphocytic | |
| Lymph Node | Mandibular | Lymphoma Malignant Lymphocytic | |
| Mammary Gland | | Lymphoma Malignant Lymphocytic | |
| Ovary | | Lymphoma Malignant Lymphocytic | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | Subcut Tiss | Granuloma | Marked |
| | | Note: GRANULOMA TGLs = 3-7 | |
| Spleen | | Lymphoma Malignant Lymphocytic | |
| | | Note: C O MORB: LYMPHOSARCOMA LYMPHOCYTIC, MULTIPLE ORGANS | |
| | | [Lymphoma Malignant Lymphocytic TGLS = 1-1] | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Lymphoma Malignant Lymphocytic | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6744

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Brain | | Cyst Epithelial Inclusion | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| Note: LYMPH NODE ENLARGEMENT SEEN AT NECROPSY | | | |
| Note: MAND L N: NORMAL; NO CORRESP LESION FOR MANDIBULAR | | | |
| Note: ECTASIA TGLs = 6-7 | | | |
| Note: HYPERPLASIA TGLs = 5-2 | | | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECROPSY | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 2-6 | | | |
| Zymbal's Gland | | Carcinoma | |
| Note: CARCINOMA TGLs = 3-7 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6745

TRT#: 9

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Pancreas
Skin
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Harderian Gland
Lymph Node
Note: AND L N: NORMAL

Sternal

Myelofibrosis
Adenoma

Mild

Uterus
Note: HYPERPLASIA TGLs = 1-6

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6746

TRT#: 9

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 0-0

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pancreas
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Liver
 Note: LYMPH MAL MIXD TGLs = 2-7
Lymph Node
 Note: MAND L N: NORMAL
Pituitary Gland
Skin
Spleen
 [Hemangiosarcoma TGLS = 1-1]
Uterus

Femoral
Sternal
Pars Distalis
Endometrium

Myelofibrosis
Myelofibrosis
Lymphoma Malignant Mixed
Hyperplasia
Acanthosis
Hyperkeratosis
Parasite Metazoan
Hemangiosarcoma
Hyperplasia

Minimal
Mild
Nodular, Mild
Minimal
Minimal
Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6747

TRT#: 9

SEX: Female

DAY ON TEST: 687

DOSE: 0 PPM 0-0

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | | |

MISSING

| | | | |
|------------|-------|--------|-----------------|
| Lymph Node | Ovary | Thymus | Urinary Bladder |
| Uterus | | | |

AUTO PRECLUDES DIAG.

| | |
|-------------|-------------------------|
| Gallbladder | Intestine Small - Ileum |
|-------------|-------------------------|

OBSERVATIONS

| | | | |
|--|-------|-------------------|---------|
| Heart | Valve | Bacterium | |
| Note: C O DEATH: VEGETATIVE ENDOCARDITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Ovary | | | |
| Note: NO SECTION OF ENLARGED RIGHT OVARY WAS TAKEN | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6748

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pancreas
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Liver

Note: HEPATOCLR ADEN TGLs = 2-1

Sternal

Myelofibrosis
Angiectasis
Hepatocellular Adenoma

Moderate
Mild
Single

Lymph Node
Note: MAND L N: NORMAL

Pituitary Gland
Note: ADENOMA TGLs = 1-6

Pars Distalis

Adenoma

Skin

Note: HEPATOCLR ADEN TGLs = 2-1

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Spleen
Uterus
Note: HYPERPLASIA TGLs = 3-6

Endometrium

Hyperplasia
Hyperplasia

Lymphoid, Mild
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6749

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|-------------|-------------------|----------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Mild |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL FOCI NOTED AT NECROPSY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| | Rete Ovarii | Cyst | |
| Note: CYST TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1-6+8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6750

TRT#: 9

DOSE: 0 PPM 0-0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|---------------|-------------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Moderate |
| Intestine Large | Rectum | Parasite Metazoan | |
| Note: NO CORRESP LESION FOR CECAL FOCI NOTED AT NECROPSY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6751

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|----------------------------------|----------------|--------------------------|-----------------------|
| Liver | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR ADEN | TGLs = 4-8 | | |
| Note: HEPATOCLR CARC | TGLs = 3-9 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST | TGLs = 1-10 | | |
| Skin | | Acanthosis | Moderate |
| | | Inflammation | Necrotizing, Moderate |
| | | Parasite Metazoan | |
| [Parasite Metazoan TGLS = 5-7] | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA | TGLs = 2-10 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6752

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Parathyroid Gland
Stomach - Glandular

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Spleen
Trachea

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: NORMAL
Ovary
Note: CYST TGLs = 1-6
Pituitary Gland
Skin
Thyroid Gland
Uterus
Note: HYPERPLASIA TGLs = 2-6

Calvarium
Femoral
Periovarn Tiss
Pars Distalis
Follicular Cel
Endometrium

Myelofibrosis
Myelofibrosis
Cyst
Hyperplasia
Acanthosis
Hyperkeratosis
Parasite Metazoan
Adenoma
Inflammation
Hyperplasia

Minimal
Minimal
Nodular, Minimal
Minimal
Minimal
Chronic, Mild
Cystic, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6753

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--------------------------------|-------------------|-------------------|----------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 3-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | | Dilatation | Moderate |
| | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1,2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6754

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|--------------|----------------------------------|-----------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| Liver | | Hepatocellular Adenoma | Single |
| Note: THAT WAS SEEN AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR RT ANTERIOR LOBE LIVER NODULE | | | |
| [Hepatocellular Adenoma TGLS = 5-7] | | | |
| Lymph Node | Mandibular | Hyperplasia | Lymphoid, Mild |
| Ovary | Rete Ovarii | Cyst | |
| Note: CYST | TGLs = 2-6 | | |
| Skin | | Acanthosis | Moderate |
| | | Hyperkeratosis | Mild |
| | | Inflammation | Necrotizing, Moderate |
| Note: INFLAMMATION | TGLs = 1-2+8 | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Note: [HEMA CELL PROL] | TGLs = 3-1 | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6755

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-------------------|---|--------------------|
| Lymph Node Note: MAND L N: NORMAL Note: ECTASIA TGLs = 2-4 | Mesenteric, Sinus | Ectasia | Moderate |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Uterus Note: HYPERPLASIA TGLs = 1-6 | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6756

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|------------------------|----------------|-------------------------|------------------|
| Harderian Gland | | Adenoma | |
| Note: ADENOMA | TGLs = 4-7 | | |
| Liver | | Clear Cell Focus | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST | TGLs = 2,3-6 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Squamous Cell Papilloma | |
| Note: PAPILLOMA SQUA | TGLs = 5-8 | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA | TGLs = 1-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6757

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|----------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| [Hepatocellular Carcinoma TGLS = 1-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6758

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|---------------------------------|--|------------------|
| Intestine Small Note: LYMPH MAL UNDF TGLs = 6-8 | Ileum | Lymphoma Malignant Undifferentiated Cell Type | |
| Liver [Hepatocellular Adenoma TGLS = 2-1+7] | | Eosinophilic Focus Hepatocellular Adenoma | Mild Multiple |
| Lymph Node Note: LYMPH MAL UNDF TGLs = 3-8 Note: MAND L N: NORMAL [Lymphoma Malignant Undifferentiated Cell Type TGLS = 4-9] | Mandibular, Sinus Mesenteric | Ectasia Lymphoma Malignant Undifferentiated Cell Type | Marked |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Marked |
| Spleen Note: HYPERPLASIA TGLs = 5-1 | | Hyperplasia | Lymphoid, Mild |
| Uterus Note: HYPERPLASIA TGLs = 1-6 | Endometrium | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6759

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Salivary Glands

OBSERVATIONS

| | | | |
|---|-------------------|--|-----------------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR COLONIC NODULES NOTED AT NECROPSY | | | |
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL AND ILEAL NODULES NOTED | | | |
| Note: NOTED AT NECROPSY | | | |
| Liver | | Cytomegaly Cytoplasmic Alteration Hepatocellular Adenoma | Minimal Mild Multiple |
| [Hepatocellular Adenoma TGLS = 7,8-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: MAND L N: MISSING | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 6-6 | | | |
| Skin | | Acanthosis Parasite Metazoan | Minimal |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 5-6 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6759

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851149

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6760

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------------|-------------|------------------------|----------------|
| Liver | | Hepatocellular Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:33:59
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6761

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Skin
Thymus

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: NORMAL

Femoral

Myelofibrosis

Mild

Ovary
Note: CYST TGLs = 2,3-6

Periovarn Tiss

Cyst

Pituitary Gland
Uterus

Pars Distalis
Endometrium

Hyperplasia
Hyperplasia

Nodular, Marked
Cystic, Marked

Note: HYPERPLASIA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6762

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|-----------------|----------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| Lymph Node | Mandibular, Sinus | Ectasia | Mild |
| | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 4-7 | | | |
| Note: ECTASIA TGLs = 2,4-6+7 | | | |
| Note: ECTASIA TGLs = 2-6 | | | |
| Spleen | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 1,3-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6763

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Stomach - Glandular

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Salivary Glands
Thyroid Gland

Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Skin
Trachea

MISSING

Thymus

OBSERVATIONS

Bone Marrow
Brain
Lymph Node
Note: MAND L N: NORMAL

Femoral

Myelofibrosis
Cyst Epithelial Inclusion

Minimal

Pituitary Gland
Note: ADENOMA TGLs = 3-6

Pars Distalis

Adenoma

Spleen
Note: HYPERPLASIA TGLs = 1-1

Hyperplasia

Lymphoid, Mild

Uterus
Note: HYPERPLASIA TGLs = 2-6

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6764

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|------------------------|---------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| Liver | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 3,4,5-7+8] | | | |
| Lung | | | |
| Note: NO CORRESP LESION FOR INTERM LOBE LUNG NODULE SEEN | | | |
| Note: AT NECROPSY | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: MAND L N: NORMAL | | | |
| [Ectasia TGLS = 2-4] | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLS = 6-6] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6765

TRT#: 10

SEX: Female

DAY ON TEST: 491

DOSE: 0 PPM 10-0

DISP: Moribund Sacrifice

HISTO: 851155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone | Brain | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|------------------------------|-------------|----------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| Liver | | Cytomegaly | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Mineralization | Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: C O MORB: UNKNOWN | | | |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6766

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Lymph Node | Nose |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------------------|----------------|-------------------|------------------|
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| [Cyst TGLS = 2-9] | | | |
| Pancreas | Acinus | Atrophy | Marked |
| | Duct | Ectasia | Marked |
| [Atrophy TGLS = 3-7] | | | |
| [Ectasia TGLS = 3-7] | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 4-8 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 1-6+9] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6767

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|-------------|-----------------------------|-----------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Clear Cell Focus | |
| Note: CLEAR CL FOCUS TGLs = 1-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Granulosa Cell Tumor Benign | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6768

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

Lymph Node

Note: NO CORRESP LESION FOR ENLARGEMENT OF MESENTERIC L NODE

Note: MAND L N: NORMAL

Note: SEEN AT NECROPSY

| | | | |
|-----------------|---------------|-------------|---------------|
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| Uterus | | Dilatation | Moderate |

Note: DILATATION TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6769

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Liver |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|--------------------------|-------------------|------------------------------|---------|
| Kidney | | Infarct | Minimal |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6770

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 841160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|-----------------|
| Bone Marrow | Calvarium | Myelofibrosis | Moderate |
| | Femoral | Myelofibrosis | Mild |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 3-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | | |
| Note: NO CORRESP LESION FOR OVARIAN CYST SEEN AT NECROPSY | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | | Dilatation | Moderate |
| | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: DILATATION TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6771

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|---------------|----------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| | Femoral | Myelofibrosis | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6772

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node - Mesenteric | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-----------------------------------|---------------------------|---|--------------------|
| Liver | | Eosinophilic Focus Hepatocellular Adenoma | Single |
| [Eosinophilic Focus TGLS = 5-7] | | | |
| Lung | | Lymphoma Malignant Mixed | |
| Lymph Node | Mandibular | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 6-8 | | | |
| Ovary | Bilateral, Periovarn Tiss | Cyst Luteoma | |
| Note: LUTEOMA TGLs = 4-8 | | | |
| Note: CYST TGLs = 3,4-6+8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Spleen | | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 1-1 | | | |
| Thymus | | Lymphoma Malignant Mixed | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6773

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lymph Node | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|----------------------|--------------------------------|----------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Marked |
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Liver | | Cytomegaly | Minimal |
| Lung | | Lymphoma Malignant Lymphocytic | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Lymphoma Malignant Lymphocytic | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Skin | | Acanthosis | Minimal |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT SEEN AT NECR | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| Note: HYPERPLASIA TGLs = 4-6 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6774

TRT#: 10

SEX: Female

DAY ON TEST: 620

DOSE: 0 PPM 10-0

DISP: Moribund Sacrifice

HISTO: 851164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Oviduct |
| Pancreas | Pituitary Gland | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

OBSERVATIONS

| | | | |
|--|-------------|------------------------|-----------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 2-8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Oviduct | | | |
| Note: TGLs = 1-7: OVIDUCT IS NORMAL. | | | |
| Spleen | | Pigmentation | Mild |
| Stomach | | | |
| Note: NO CORRESP LESION FOR STOMACH THICKENING NOTED AT NECROPSY | | | |
| Thymus | | Atrophy | Moderate |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: C O MORB: UNKNOWN | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6775

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Nose | Ovary | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| | Femoral | Myelofibrosis | Minimal |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| Note: HYPERPLASIA TGLs = 3-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Duct | Ectasia | Marked |
| Note: ECTASIA TGLs = 2-8 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| Stomach | Forestomach | Cyst Epithelial Inclusion | |
| Note: CYST EPITH INC TGLs = 4-8 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6776

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|---------------|----------------|------------------|
| Bone | Tarsal | Hyperostosis | |
| Note: HYPEROSTOSIS TGLs = 1-7 | | | |
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Note: REPORTED AT NECROPSY (SLIDE #2 HAS SECTION OF THYMUS, | | | |
| Note: NO SECTION OF THE MEDIASTINAL LYMPH NODE | | | |
| Note: NO CORRESP LESION FOR ENLARGED MEDIASTINAL LYMPH NODE | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6777

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Lymph Node | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|--|---------------|-----------------------------|----------------|
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Granulosa Cell Tumor Benign | |
| Note: OVARIAN TUMOR IS SERTOLI CELL TYPE OF GRANULOSA C. TUMOR | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Spleen | | Hyperplasia | Lymphoid, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6778

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|---------------------------|---|--------------------|
| Liver | | Clear Cell Focus Hepatocellular Adenoma | Single |
| Note: CLEAR CL FOCUS TGLs = 6-11 [Hepatocellular Adenoma TGLS = 7-10] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 5-12 Note: MAND L N: NORMAL | | | |
| Ovary | Bilateral, Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 3,4-8+9 | | | |
| Pancreas | Acinus Duct | Atrophy Ectasia | Marked Marked |
| Note: ATROPHY TGLs = 1-7 Note: ECTASIA TGLs = 1-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 2-6+8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6779

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|---------------|------------------------|-------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Harderian GI | | | |
| Note: APPARENT LYSIS OF EPITHELIAL CELLS JUDGED TO BE POST-MORTEM AUTOLYSIS OR FIXATION ARTIFACT, AND NOT A LESION | | | |
| Liver | | Hepatocellular Adenoma | Single |
| [Hepatocellular Adenoma TGLs = 4-8] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 1-9 | | | |
| Mammary GI | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 3-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| | | Pigmentation | Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6780

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-------------|-------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Mild |
| Liver | | | |
| Note: NO CORRESP LESION FOR LIVER FOCUS SEEN AT NECROPSY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6781

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Mammary Gland |
| Nose | Ovary | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|---------------|------------------------|------------------|
| Adrenal Gland | Cortex | Hyperplasia | Mild |
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Minimal |
| Intest Small | | | |
| Note: SEEN AT NECROPSY | | | |
| Note: NO CORRESP LESIONS FOR JEJUNAL AND ILEAL NODULES | | | |
| Liver | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 2,3,4-8+9+11] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 7-12 | | | |
| Pancreas | Acinus | Atrophy | Minimal |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6782

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------------------|-------------|--------------------|------------------|
| Liver | | Eosinophilic Focus | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Mixed Tumor Benign | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6783

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|----------------|------------------------|----------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Mild |
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 3,4,6-8+10 | | | |
| Note: NO CORRESP LESION FOR LEFT LOBE FOCUS SEEN AT NECROPSY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | | Dilatation | Marked |
| | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6784

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|---------------|---|----------------|
| Intestine Small Note: LYMPH MAL UNDF TGLs = 4-7 | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Lymph Node Note: MAND L N: NORMAL | | | |
| Ovary Note: NO CORRESP LESION FOR RIGHT OVARY NODULE SEEN AT NECROPSY | | | |
| Pituitary Gland Note: CYST TGLs = 1-6 | Pars Distalis | Cyst | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Mild |
| | | Parasite Metazoan | |
| Uterus Note: HYPERPLASIA TGLs = 2-6 | Endometrium | Hyperplasia | Cystic, Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6785

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|----------------|------------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Minimal |
| Liver | | Hepatocellular Adenoma | Multiple |
| Note: LIVER LOBE AT NECROPSY | | | |
| Note: NO CORRESP LESION SEEN FOR FOCUS OF RIGHT POSTERIOR | | | |
| [Hepatocellular Adenoma TGLS = 2,3,5-1+7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6786

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lung | Mammary Gland | Nose |
| Pancreas | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | |
|------------|-------|-------------------|
| Lymph Node | Ovary | Parathyroid Gland |
|------------|-------|-------------------|

OBSERVATIONS

| | | | |
|------------------------------|-------------|-------------------|--------------|
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6787

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Liver | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | |
|---------------|-----------------|--------|
| Mammary Gland | Pituitary Gland | Thymus |
|---------------|-----------------|--------|

OBSERVATIONS

| | | | |
|------------------------------------|-------------|--------------------------------|------------------|
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: [ALV BRON CARC] TGLs = 2-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 1-6] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6788

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|---------------|-------------------|-----------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Note: NO BETTER SECTION OF PITUITARY COULD BE PRODUCED | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Mild |
| Spleen | | | |
| Note: HYPERPLASIA TGLs = 1-7 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Marked |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6789

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|----------------------------------|-----------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Marked |
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| Brain | Hypothalamus | Compression | |
| Liver | | Cytomegaly | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | | Histiocytic Sarcoma | |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 2-1 | | | |
| Lymph Node | Mediastinal | Hematopoietic Cell Proliferation | Moderate |
| | Mediastinal | Histiocytic Sarcoma | |
| | Mesenteric | Histiocytic Sarcoma | |
| Note: MAND L N: NORMAL | | | |
| Note: [HISTIO SARC] TGLs = 4-7 | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 3-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Bilateral, Follicular Cel | Adenoma | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6789

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851179

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6790

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney | Liver | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

MISSING

Islets, Pancreatic

OBSERVATIONS

| | | | |
|------------------------------|---------------|-------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| | Femoral | Myelofibrosis | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 1-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | | Inflammation | Chronic, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6791

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Kidney
Nose
Salivary Glands
Stomach - Glandular

Bone
Heart
Intestine Small - Duodenum
Liver
Pancreas
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Bone Marrow
Intestine Small
 Note: [LYMPH MAL MIXD] TGLs = 2-7
Lymph Node

 Note: [LYMPH MAL MIXD] TGLs = 3-7
Ovary
Uterus
 Note: HYPERPLASIA TGLs = 1-6

Femoral
Jejunum

Mandibular
Mediastinal
Mesenteric

Endometrium

Myelofibrosis
Lymphoma Malignant Mixed

Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Lymphoma Malignant Mixed
Hyperplasia

Minimal

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6792

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-----------------------------|---------------|------------------|-------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| Liver | | Clear Cell Focus | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Uterus | | Dilatation | Marked |
| Note: DILATATION TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6793

TRT#: 10

SEX: Female

DAY ON TEST: 492

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Esophagus |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic | Lung |
| Mammary Gland | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Pituitary Gland

AUTO PRECLUDES DIAG.

Stomach - Glandular

OBSERVATIONS

| | | | |
|---|-------------|--------------------------------|---------|
| Adrenal Gland | Cortex | Lymphoma Malignant Lymphocytic | |
| Brain | | Lymphoma Malignant Lymphocytic | |
| Eye | | Lymphoma Malignant Lymphocytic | |
| Gallbladder | | Lymphoma Malignant Lymphocytic | |
| Intestine Small | Jejunum | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 10-4+9 | | | |
| Kidney | | Lymphoma Malignant Lymphocytic | |
| Liver | | Lymphoma Malignant Lymphocytic | |
| Note: C O DEATH: LYMPHOCYTIC LYMPHOMA | | | |
| Lymph Node | Lumbar | Lymphoma Malignant Lymphocytic | |
| | Mandibular | Lymphoma Malignant Lymphocytic | |
| | Mediastinal | Lymphoma Malignant Lymphocytic | |
| | Mesenteric | Lymphoma Malignant Lymphocytic | |
| | Renal | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 1,3,7,8,9-2+3+4+6+7+8 | | | |
| Nose | | Lymphoma Malignant Lymphocytic | |
| Ovary | | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 5-6 | | | |
| Pancreas | | Lymphoma Malignant Lymphocytic | |
| Skin | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6793

TRT#: 10

SEX: Female

DAY ON TEST: 492

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851183

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 4-1

Thymus

Lymphoma Malignant Lymphocytic

Uterus

Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6794

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Liver
Note: HEPATOCLR ADEN TGLs = 4-9
Lymph Node
Note: MAND L N: MISSING
Note: ECTASIA TGLs = 1-10
Ovary
Note: CYST TGLs = 5-8
Spleen
Note: HYPERPLASIA TGLs = 2,3-7
Uterus
Note: HYPERPLASIA TGLs = 6-6+8

Femoral
Mesenteric, Sinus
Periovarn Tiss
Endometrium

Myelofibrosis
Hepatocellular Adenoma
Ectasia
Cyst
Hyperplasia
Hyperplasia

Mild
Single
Mild
Lymphoid, Moderate
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:33:59

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6795

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|-------------|-------------------|-----------------|
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6797

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|----------------------------------|-------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| | Femoral | Myelofibrosis | Minimal |
| Liver | | Hepatocellular Adenoma | Single |
| [Hepatocellular Adenoma TGLS = 4-7] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-6 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 3-1 | | | |
| Thyroid Gland | | Inflammation | Subacute, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6798

TRT#: 10

SEX: Female

DAY ON TEST: 708

DOSE: 0 PPM 10-0

DISP: Natural Death

HISTO: 851188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|----------------|------------------------------|-------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| | Femoral | Myelofibrosis | Minimal |
| Liver | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC TGLs = 1,2-8 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMA | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-8 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicular Cel | Adenoma | |
| Note: ADENOMA TGLs = 3-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6799

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM 10-0

DISP: Terminal Sacrifice

HISTO: 851189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------------|-------------------|-------------------------|------------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| Liver | | Hepatocellular Adenoma | Single |
| [Hepatocellular Adenoma TGLS = 2-8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 3-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Squamous Cell Papilloma | |
| Note: PAPILOMA SQUA TGLs = 4-10 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | | Dilatation | Mild |
| | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6800

TRT#: 10

SEX: Female

DAY ON TEST: 723

DOSE: 0 PPM 10-0

DISP: Moribund Sacrifice

HISTO: 851190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Mammary Gland | Nose | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | | | |

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|---|---------|
| Adrenal Gland | Capsule | Lymphoma Malignant Undifferentiated Cell Type | |
| | Cortex | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF | TGLs = 6-6 | | |
| Note: LYMPH MAL UNDF | TGLs = 6-6 | | |
| Intestine Large | Cecum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| Note: LYMPH MAL UNDF | TGLs = 8-4 | | |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| Liver | | Hepatocellular Adenoma | Single |
| Note: C O MORB: LYMPHOMA MALIG UNDIFF | | | |
| Note: HEPATOCLR ADEN | TGLs = 9-12 | | |
| Lung | | Lymphoma Malignant Undifferentiated Cell Type | |
| Lymph Node | Mandibular | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mediastinal | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF | TGLs = 1,5-7+8 | | |
| Ovary | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF | TGLs = 4-9 | | |
| Pancreas | | Lymphoma Malignant Undifferentiated Cell Type | |
| Skeletal Muscle | Abdominal | Lymphoma Malignant Undifferentiated Cell Type | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6800

TRT#: 10

SEX: Female

DAY ON TEST: 723

DOSE: 0 PPM 10-0

DISP: Moribund Sacrifice

HISTO: 851190

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Parasite Metazoan

Hematopoietic Cell Proliferation

Moderate

Lymphoma Malignant Undifferentiated Cell Type

Note: HEMA CELL PROL TGLs = 2-10

Note: LYMPH MAL UNDF TGLs = 2-10

Thymus

Lymphoma Malignant Undifferentiated Cell Type

Note: LYMPH MAL UNDF TGLs = 7-11

Urinary Bladder

Lymphoma Malignant Undifferentiated Cell Type

Uterus

Lymphoma Malignant Undifferentiated Cell Type

Note: LYMPH MAL UNDF TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6801

TRT#: 11

SEX: Female

DAY ON TEST: 710

DOSE: 3 PPM 1-1

DISP: Moribund Sacrifice

HISTO: 851861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|-------------|---|-----------------------|
| Harderian Gland | | Adenoma | |
| Intestine Small | Duodenum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Duodenum | Ulcer | Marked |
| Note: C O MORB: LYMPHOMA MALIG UNDIFF AND ULCER, DUODENUM | | | |
| Kidney | | | |
| Note: THAT WAS NOTED AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR WHITE DISCOLORATION OF KIDNEYS | | | |
| Liver | | Necrosis | Coagulative, Moderate |
| [Necrosis TGLS = 2-1] | | | |
| Lung | | | |
| Note: NO CORRESP LESION FOR WHITE APPEARANCE OF LUNGS AT NECR | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6802

TRT#: 11

SEX: Female

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|----------------|-------------------|------------------------|
| Kidney | | Metaplasia | Osseous, Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Note: NO CORRESP LESION FOR ENLARGED MES L NODE NOTED AT NECR | | | |
| Ovary | Periovarn Tiss | Cyst | |
| | | Inflammation | Chronic Active, Marked |
| Note: INFLAMMATION TGLs = 4-6 | | | |
| Note: CYST TGLs = 5-6 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Fibrosarcoma | |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: FIBROSARC TGLs = 1-7 | | | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECR | | | |
| Thyroid Gland | | Inflammation | Chronic, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Inflammation | Acute, Moderate |
| Note: HYPERPLASIA TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6803

TRT#: 11

SEX: Female

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|-------------------|----------------------------------|--------------------------|
| Brain | Artery | Inflammation | Chronic, Mild |
| | Artery | Necrosis | Fibrinoid, Mild |
| Liver | | Eosinophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| Lymph Node | Mandibular, Sinus | Ectasia | Marked |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Lumbar | Hyperplasia | Plasma Cell, Moderate |
| Note: HYPERPLASIA TGLs = 1-7 | | | |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Note: ECTASIA TGLs = 3-10 | | | |
| Ovary | Periovarn Tiss | Cyst | |
| | | Inflammation | Chronic Active, Moderate |
| Note: CYST TGLs = 5-9 | | | |
| Note: INFLAMMATION TGLs = 7-9 | | | |
| Pancreas | Acinus | Atrophy | Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| Note: HEMA CELL PROL TGLs = 4-1 | | | |
| Note: HYPERPLASIA TGLs = 4-1 | | | |
| Thymus | | Amyloid Deposition | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

| | | | |
|------------------------|---|---|---|
| ANIMAL ID: 6803 | TRT#: 11 DOSE: 3 PPM 1-1 | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 851863 |
|------------------------|---|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|--|-------------|-----------------------------|-------------------------------|
| Uterus | Endometrium | Hyperplasia Inflammation | Cystic, Marked Acute, Mild |
| Note: HYPERPLASIA TGLs = 6-6+8 | | | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6804

TRT#: 11

SEX: Female

DAY ON TEST: 692

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Heart
Nose
Skin

Bone
Intestine Large - Cecum
Parathyroid Gland
Thyroid Gland

Brain
Intestine Large - Colon
Pituitary Gland
Trachea

Esophagus
Intestine Large - Rectum
Salivary Glands

MISSING

Mammary Gland

Ovary

Thymus

AUTO PRECLUDES DIAG.

Gallbladder
Islets, Pancreatic

Intestine Small - Duodenum
Pancreas

Intestine Small - Ileum
Stomach - Forestomach

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland
Bone Marrow
Kidney
Note: LYMPH MAL LYMP TGLs = 2-1+7
Liver

Cortex
Femoral

Lymphoma Malignant Lymphocytic
Myelofibrosis
Lymphoma Malignant Lymphocytic

Minimal

Lung
Lymph Node
Note: MAND L N: MISSING

Mediastinal

Fatty Change
Lymphoma Malignant Lymphocytic
Necrosis
Alveolar/Bronchiolar Adenoma
Lymphoma Malignant Lymphocytic

Mild
Coagulative, Minimal
Single

Spleen
Note: LYMPH MAL LYMP TGLs = 1-8
Note: C O DEATH: LYMPH MAL LYMPHOCYTIC, MULTIPLE ORGANS

Lymphoma Malignant Lymphocytic

Stomach
Urinary Bladder
Uterus

Glandular
Endometrium

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic
Hyperplasia
Lymphoma Malignant Lymphocytic

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6805

TRT#: 11

SEX: Female

DAY ON TEST: 309

DOSE: 3 PPM 1-1

DISP: Moribund Sacrifice

HISTO: 851865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Pancreas
Skin
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Lymph Node
Note: MAND L N: NORMAL
Uterus

Calvarium

Myelofibrosis

Minimal

Note: HYPERPLASIA TGLs = 1,2-6
Note: C O MORB: UNKNOWN

Endometrium

Angiectasis
Hyperplasia

Mild
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6806

TRT#: 11

SEX: Female

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--------------------------------|-------------------|-------------------|--------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Liver | | Cytomegaly | Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 2-7 | | | |
| Note: MAND L N:NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6807

TRT#: 11

SEX: Female

DAY ON TEST: 687

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|-------------------------------------|-------------|----------------------------------|--------------|
| Liver | | Histiocytic Sarcoma | |
| Note: C O DEATH: HISTIO SARC, LIVER | | | |
| Note: [HISTIO SARC] TGLs = 3,4-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Rete Ovarii | Cyst | |
| Pancreas | Acinus | Atrophy | Moderate |
| | Duct | Ectasia | Moderate |
| Note: ATROPHY TGLs = 2-4+8 | | | |
| Note: ECTASIA TGLs = 2-4+8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6808

TRT#: 11

SEX: Female

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------------------|---------------|-------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Mild |
| Liver | Hepatocyte | Necrosis | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6809

TRT#: 11

SEX: Female

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node
Parathyroid Gland
Stomach - Glandular

Bone
Gallbladder
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Ovary
Salivary Glands
Trachea

MISSING

Mammary Gland

Thymus

OBSERVATIONS

Heart
Lymph Node
Note: MAND L N: NORMAL

Valve

Inflammation

Chronic Active, Mild

Mesentery
Skin
Note: INFLAMMATION TGLs = 2-7

Hemangioma
Inflammation

Necrotizing, Moderate

Spleen
Note: HEMA CELL PROL TGLs = 1-1

Hematopoietic Cell Proliferation

Minimal

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6810

TRT#: 11

SEX: Female

DAY ON TEST: 627

DOSE: 3 PPM 1-1

DISP: Moribund Sacrifice

HISTO: 851870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | | | |

MISSING

| | | | |
|-------|--------|-----------------|--------|
| Ovary | Thymus | Urinary Bladder | Uterus |
|-------|--------|-----------------|--------|

OBSERVATIONS

| | | |
|--|----------------------------------|----------|
| Clitoral Gland Note: C O MORB: CLITORAL GL CARCINOMA [Carcinoma TGLS = 1-7] | Carcinoma | |
| Liver Lymph Node Note: NO CORRESP LESION FOR ENLARGED MESENTERIC LYMPH NODE Note: NOTED AT TRIM Note: MAND L N: NORMAL | Cytomegaly | Minimal |
| Spleen [Hematopoietic Cell Proliferation TGLS = 2-1] | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6811

TRT#: 11

SEX: Female

DAY ON TEST: 729

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|---------------|--------------------------|------------------|
| Kidney | | Lymphoma Malignant Mixed | |
| | | Nephropathy | Chronic, Minimal |
| Liver | | Eosinophilic Focus | Mild |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Single |
| | | Lymphoma Malignant Mixed | |
| Note: HEMANGIOSARC TGLs = 3,4,5-1+8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |
| | | Lymphoma Malignant Mixed | |
| [Hemangiosarcoma TGLS = 1,2-1] | | | |
| [Lymphoma Malignant Mixed TGLS = 1,2-1+7] | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6812

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Liver |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|--------------------------|---------------|
| Blood Vessel | Pulmn Artery | Inflammation | Chronic, Mild |
| Kidney | | Lymphoma Malignant Mixed | |
| Lung | | Lymphoma Malignant Mixed | |
| Lymph Node | Mesenteric | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 3-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 1-7 | | | |
| Thymus | | Lymphoma Malignant Mixed | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6813

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---------------------------------------|-------------|--------------------------------|-------------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| Intestine Small | Duodenum | Inflammation | Chronic Active, Minimal |
| Liver | | Cytomegaly | Mild |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: [ALV BRON CARC] TGLs = 4-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Rete Ovarii | Cyst | |
| Note: CYST TGLs = 3-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| | | Sarcoma Stromal | |
| Uterus | | | |
| Note: [SARC STROMAL] TGLs = 1,2-7+8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6814

TRT#: 11

SEX: Female

DAY ON TEST: 621

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 821874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | | | |
|-------------|---------------|--------|--|
| Gallbladder | Mammary Gland | Thymus | |
|-------------|---------------|--------|--|

OBSERVATIONS

| | | | |
|--|-------------|--------------------------------|-----------------|
| Intest Small | | | |
| Note: NO CORRESP LESION FOR ILEAL MASS SEEN AT NECROPSY | | | |
| Note: WET TISSUE WAS SEARCHED | | | |
| Liver | | Hepatocellular Carcinoma | Single |
| Note: CARCINOMA | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMA; BRONCHIOLO-ALVEOLAR | | | |
| [Hepatocellular Carcinoma TGLS = 2-1] | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| [Alveolar/Bronchiolar Carcinoma TGLS = 3-2] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6815

TRT#: 11

SEX: Female

DAY ON TEST: 680

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | |

MISSING

| | | |
|-------------------------|---------------|-----------------|
| Intestine Small - Ileum | Mammary Gland | Pituitary Gland |
|-------------------------|---------------|-----------------|

OBSERVATIONS

| | | |
|---|--------------|--------------------------------|
| Adrenal Gland | Capsule | Lymphoma Malignant Lymphocytic |
| | Cortex | Lymphoma Malignant Lymphocytic |
| Gallbladder | | Lymphoma Malignant Lymphocytic |
| Heart | | Lymphoma Malignant Lymphocytic |
| Kidney | | Lymphoma Malignant Lymphocytic |
| Liver | | Lymphoma Malignant Lymphocytic |
| Note: LYMPH MAL LYMP | TGLs = 4-8 | |
| Lung | | Lymphoma Malignant Lymphocytic |
| Lymph Node | Mandibular | Lymphoma Malignant Lymphocytic |
| | Mesenteric | Lymphoma Malignant Lymphocytic |
| Note: LYMPH MAL LYMP | TGLs = 1,5-3 | |
| Mesentery | | Lymphoma Malignant Lymphocytic |
| Ovary | | Lymphoma Malignant Lymphocytic |
| Oviduct | | Lymphoma Malignant Lymphocytic |
| Note: LYMPH MAL LYMP | TGLs = 3-6 | |
| Skin | Subcut Tiss | Lymphoma Malignant Lymphocytic |
| Spleen | | Lymphoma Malignant Lymphocytic |
| Note: C O DEATH: LYMPH MALIG LYMPHOCYTIC, MULTIPLE ORGANS | | |
| Note: LYMPH MAL LYMP | TGLs = 2-7 | |
| Thymus | | Lymphoma Malignant Lymphocytic |
| Urinary Bladder | | Lymphoma Malignant Lymphocytic |
| Uterus | | Lymphoma Malignant Lymphocytic |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6815

TRT#: 11

SEX: Female

DAY ON TEST: 680

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851875

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6816

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone | Brain | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|----------------------------------|----------------------|----------------------------------|--------------------|
| Adrenal Gland | Medulla | Hyperplasia | Minimal |
| | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Moderate |
| Bone Marrow | Femoral | Hemangiosarcoma | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Lumbar | Infiltration Cellular | Histiocyte, Marked |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 5-7 | | | |
| Note: HEMA CELL PROL TGLs = 4-10 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 6-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hemangiosarcoma | |
| Spleen | | | |
| Note: HEMANGIOSARC TGLs = 1,2-8 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Sarcoma Stromal | |
| Note: SARC STROMAL TGLs = 3-6+9 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6817

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-------------|------------------------------|------------------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Lymph Node Note: MAND L N: NORMAL | | | |
| Mesentery Note: INFLAMMATION TGLs = 2-7 | | Inflammation | Necrotizing, Mild |
| Skin | | Acanthosis Hyperkeratosis | Minimal Minimal |
| Uterus Note: HYPERPLASIA TGLs = 1-6 | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6818

TRT#: 11

SEX: Female

DAY ON TEST: 341

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 841878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Thymus

OBSERVATIONS

| | | |
|---------------------------------|----------------------------------|---------|
| Liver | Cytomegaly | Minimal |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Spleen | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-1 | | |
| Uterus | | |
| Note: C O DEATH: UNKNOWN | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6819

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|------------------------|-----------------------|----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Harderian Gland | | Hyperplasia | Nodular, Mild |
| Intestine Small | Duodenum, Peyers Patch | Infiltration Cellular | Histiocyte, Moderate |
| Note: NO CORRESP LESION FOR ILEAL AND JEJUNAL NODULES | | | |
| Note: INFILTRAT CELL TGLs = 2-7 | | | |
| Note: SEEN AT NECROPSY | | | |
| Lymph Node | Mesenteric | Hyperplasia | Plasma Cell, Mild |
| | Mesenteric | Infiltration Cellular | Histiocyte, Marked |
| Note: INFILTRAT CELL TGLs = 5-8 | | | |
| Note: HYPERPLASIA TGLs = 5-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6820

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-------------|---------------------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| Gallbladder | Epithelium | Inclusion Body Intracytoplasmic | Mild |
| Liver | | Cytomegaly | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT SEEN AT NECROPSY | | | |
| Stomach | Forestomach | Squamous Cell Papilloma | |
| Note: PAPILOMA SQUA TGLs = 3-8 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6821

TRT#: 11

SEX: Female

DAY ON TEST: 726

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Nose | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Thyroid Gland | Trachea |

MISSING

| | | | |
|-------------------------|--------------------|---------------|--------|
| Intestine Small - Ileum | Islets, Pancreatic | Mammary Gland | Thymus |
|-------------------------|--------------------|---------------|--------|

OBSERVATIONS

| | | | |
|-----------------|--|---|---------|
| Adrenal Gland | Cortex | Lymphoma Malignant Undifferentiated Cell Type | |
| | Medulla | Lymphoma Malignant Undifferentiated Cell Type | |
| Gallbladder | | Lymphoma Malignant Undifferentiated Cell Type | |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| | [Lymphoma Malignant Undifferentiated Cell Type TGLS = 5-1] | | |
| Liver | | Lymphoma Malignant Undifferentiated Cell Type | |
| | Note: LYMPH MAL UNDF TGLs = 4-8 | | |
| Lung | | Lymphoma Malignant Undifferentiated Cell Type | |
| Lymph Node | Mandibular | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mediastinal | Lymphoma Malignant Undifferentiated Cell Type | |
| | Note: LYMPH MAL UNDF TGLs = 6-3 | | |
| Ovary | | Lymphoma Malignant Undifferentiated Cell Type | |
| Pancreas | | Lymphoma Malignant Undifferentiated Cell Type | |
| Pituitary Gland | | Lymphoma Malignant Undifferentiated Cell Type | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| | Note: C O DEATH: LYMPHOMA MALIG UNDIFF, MULTIPLE ORGANS | | |
| | [Lymphoma Malignant Undifferentiated Cell Type TGLS = 1,2-7] | | |
| Stomach | Glandular | Lymphoma Malignant Undifferentiated Cell Type | |
| Urinary Bladder | | Lymphoma Malignant Undifferentiated Cell Type | |
| Uterus | | Lymphoma Malignant Undifferentiated Cell Type | |
| | Note: LYMPH MAL UNDF TGLs = 3-6 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6821

TRT#: 11

SEX: Female

DAY ON TEST: 726

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851881

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6822

TRT#: 11

SEX: Female

DAY ON TEST: 512

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--|-------------|----------------------------------|---------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Minimal |
| | Capsule | Lymphoma Malignant Lymphocytic | |
| Intestine Large | Rectum | Lymphoma Malignant Lymphocytic | |
| | Rectum | Ulcer | Marked |
| Note: ORGANS; RECTAL ULCER | | | |
| Note: LYMPH MAL LYMP TGLs = 4-9 | | | |
| Note: ULCER TGLs = 4-9 | | | |
| Note: C O DEATH: LYMPH MALIG LYMPHOCYTIC, MULTIPLE | | | |
| Kidney | | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 5-1+7 | | | |
| Liver | | Lymphoma Malignant Lymphocytic | |
| Lung | | Lymphoma Malignant Lymphocytic | |
| Lymph Node | Mediastinal | Lymphoma Malignant Lymphocytic | |
| | Mesenteric | Lymphoma Malignant Lymphocytic | |
| Note: NO CORRESP LESION FOR ENLARGED MAND L N SEEN AT NECR | | | |
| Note: LYMPH MAL LYMP TGLs = 3,6-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Oviduct | | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 8-6 | | | |
| Pituitary Gland | | Lymphoma Malignant Lymphocytic | |
| Skeletal Muscle | Abdominal | Lymphoma Malignant Lymphocytic | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6822

TRT#: 11

SEX: Female

DAY ON TEST: 512

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851882

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 1-1

Uterus Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6823

TRT#: 11

SEX: Female

DAY ON TEST: 603

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic | Nose |
| Ovary | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Uterus | | |

MISSING

| | | |
|--------------------------|---------------|--------|
| Intestine Large - Rectum | Mammary Gland | Thymus |
|--------------------------|---------------|--------|

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|--------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Mild |
| | Capsule | Lymphoma Malignant Lymphocytic | |
| Heart | | Lymphoma Malignant Lymphocytic | |
| Intestine Small | Jejunum | Lymphoma Malignant Lymphocytic | |
| | Jejunum | Ulcer | Marked |
| Note: LYMPH MAL LYMP TGLs = 2-7 | | | |
| Note: ULCER TGLs = 2-7 | | | |
| Kidney | | Lymphoma Malignant Lymphocytic | |
| Liver | | Lymphoma Malignant Lymphocytic | |
| Lung | | Lymphoma Malignant Lymphocytic | |
| Lymph Node | Mediastinal | Lymphoma Malignant Lymphocytic | |
| Note: C O DEATH: LYMPH MALIG LYMPHOCYTIC, MULTIPLE ORGS | | | |
| Note: LYMPH MAL LYMP TGLs = 3-2 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | | Lymphoma Malignant Lymphocytic | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |
| Urinary Bladder | | Lymphoma Malignant Lymphocytic | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6824

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------------------|---------------|-------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Mild |
| Liver | | Cytomegaly | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6825

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Liver | | Necrosis | Coagulative, Minimal |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: ECTASIA TGLs = 4-9 | | | |
| Note: HEMA CELL PROL TGLs = 4-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Rete Ovarii | Cyst | |
| Note: CYST TGLs = 2-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED GROSSLY | | | |
| Thyroid Gland | Follicle | Adenoma | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6826

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--------------------------------|---------------|------------------------------|------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Minimal |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6827

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------------------|-------------------|-------------------|------------------|
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 3-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6828

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Lymph Node

OBSERVATIONS

| | | | |
|--|---------------|------------------------|------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Liver | | Hepatocellular Adenoma | Single |
| [Hepatocellular Adenoma TGLS = 3-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Note: NO CORRESP LESION FOR ENLARGED MES L NODE SEEN AT NECROPSY | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6829

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Liver |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------|---------------|-------------------|------------------|
| Kidney | | Metaplasia | Osseous, Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6830

TRT#: 11

SEX: Female

DAY ON TEST: 673

DOSE: 3 PPM 1-1

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Parathyroid Gland | Pituitary Gland | Skin |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | | |
|---------------------|---------------|-----------------|-----------------------|
| Lymph Node | Mammary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | | |

OBSERVATIONS

| | | | |
|--|--|----------------------------------|------------------------|
| Clitoral Gland Note: ABSCESS TGLs = 2-8 | | Abscess | Moderate |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Minimal |
| Lymph Node Note: MAND L N: MISSING | | | |
| Mesentery Note: INFLAMMATION TGLs = 1-4+7 | | Inflammation | Necrotizing, Moderate |
| Ovary Note: INFLAMMATION TGLs = 3-9 Note: C O MORB: OVARIAN, CLITORAL GL ABSCESES; PERITONITIS | | Inflammation | Chronic Active, Marked |
| Pancreas Interlobular | | Inflammation | Chronic, Mild |
| Spleen [Hematopoietic Cell Proliferation TGLS = 1-1+7] | | Hematopoietic Cell Proliferation | Mild |
| Uterus | | Inflammation | Granulomatous, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6831

TRT#: 11

SEX: Female

DAY ON TEST: 603

DOSE: 3 PPM 1-1

DISP: Moribund Sacrifice

HISTO: 851891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Skin | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|----------|----------------------------------|----------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Moderate |
| Intestine Large | Colon | Parasite Metazoan | |
| Lung | Bronchus | Granuloma | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Salivary Glands | | Abscess | Marked |
| | | Bacterium | |
| Note: C O MORB: SALIVARY GLAND ABSCESS | | | |
| Note: ABSCESS TGLs = 1-6+7 | | | |
| Note: BACTERIUM TGLs = 1-6+7 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLS = 2-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6832

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Parathyroid Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Skin
Thymus

OBSERVATIONS

Bone Marrow

Liver
Lymph Node
Note: MAND L N: NORMAL

Calvarium
Femoral

Myelofibrosis
Myelofibrosis
Cytomegaly

Moderate
Minimal
Minimal

Ovary
Note: CYST TGLs = 2-7

Periovarn Tiss

Cyst

Uterus
Note: HYPERPLASIA TGLs = 1-7

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6833

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Lung | Mammary Gland | Nose |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|----------------|--------------------------|-------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Intestine Small | Jejunum | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 3-9 | | | |
| Kidney | | Lymphoma Malignant Mixed | |
| Liver | | Nephropathy | Chronic, Mild |
| Lymph Node | Deep Cervical | Cytomegaly | Minimal |
| | Mandibular | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 1,2-7+9 | | Lymphoma Malignant Mixed | |
| Ovary | Periovarn Tiss | Cyst | |
| | | Luteoma | |
| Note: CYST TGLs = 4-8 | | | |
| Note: [LUTEOMA] TGLs = 4-8 | | | |
| Pancreas | | Lymphoma Malignant Mixed | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR ENLARGED SPLEEN NOTED AT TRIM | | | |
| Stomach | Forestomach | Squamous Cell Papilloma | |
| Note: PAPILOMA SQUA TGLs = 7-10 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6833

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851893

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 5-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6834

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|--------------------------|-------------------|--------------|---------|
| Liver | | Cytomegaly | Minimal |
| | | Fatty Change | Minimal |
| Lymph Node | Mandibular, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 1-6 | | | |
| Ovary | Periovarn Tiss | Cyst | |
| [Cyst TGLS = 3-6] | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-6] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6835

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|----------------|--------------|------------------|
| Heart | Coron Artery | Inflammation | Chronic, Minimal |
| Liver | | Cytomegaly | Minimal |
| Note: NO CORR. LESION FOR MEDIAN LOBE LIVER MASS SEEN AT NECR | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6836

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Liver | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

INSUFFICIENT TISSUE

Bone

OBSERVATIONS

| | | | |
|---|-------------------|---|----------|
| Harderian Gland | | Adenoma | |
| Intestine Small | Duodenum | Lymphoma Malignant Undifferentiated Cell Type | |
| | Duodenum | Ulcer | Moderate |
| Note: AT NECROPSY | | | |
| Note: LYMPH MAL UNDF TGLs = 4-11 | | | |
| Note: ULCER TGLs = 4-11 | | | |
| Note: NO CORRESP LESION FOR ILEAL AND JEJUNAL LESIONS | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 3-9 | | | |
| Note: ECTASIA TGLs = 3-9 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECR | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6836

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851896

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-6+8

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6837

TRT#: 11

SEX: Female

DAY ON TEST: 733

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thymus

Bone
Heart
Intestine Small - Duodenum
Lung
Pancreas
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow Femoral
Kidney
Liver
 Note: LIVER NODULE FOUND AT NECROPSY COULD NOT BE FOUND AT TRIM
Lymph Node Mesenteric, Sinus
 Note: MAND L N: NORMAL
 Note: ECTASIA TGLs = 3-7
Skin

Uterus Endometrium
 Note: HYPERPLASIA TGLs = 1-6

Myelofibrosis Minimal
Infarct Mild
Cytomegaly Minimal

Ectasia Mild

Acanthosis Minimal
Hyperkeratosis Minimal
Parasite Metazoan
Hyperplasia Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6838

TRT#: 11

SEX: Female

DAY ON TEST: 490

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Small - Duodenum | Kidney | Lung |
| Nose | Ovary | Pancreas | Pituitary Gland |
| Salivary Glands | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | | |
|--------------------|-------------------|--------|
| Islets, Pancreatic | Parathyroid Gland | Thymus |
|--------------------|-------------------|--------|

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Mammary Gland | Skin | Stomach - Forestomach | Stomach - Glandular |

OBSERVATIONS

Intest Large
Note: LARGE INTESTINE NOTED AT NECROPSY
Note: NO CORRESP LESION FOR BLACK DISCOLORATION OF

Intest Small
Note: NO CORRESP LESION FOR BLACK DISCOLORATION OF
Note: SMALL INTESTINE NOTED AT NECROPSY

Liver
Histiocytic Sarcoma
Necrosis
Coagulative, Moderate
Note: C O DEATH: HEPATIC AND SPLENIC NECROSIS
Note: NECROSIS TGLs = 3-1

Lymph Node
Mandibular, Sinus
Ectasia
Mild
Note: ECTASIA TGLs = 6-6

Spleen
Necrosis
Acute, Moderate
Note: NECROSIS TGLs = 1-7

Stomach
Note: NO CORRESP LESION FOR ENLARGED STOMACH NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6839

TRT#: 11

SEX: Female

DAY ON TEST: 733

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Esophagus |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Liver | Lymph Node | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------------|---------------|--------------------------------|-------------------|
| Adrenal Gland | Cortex | Hyperplasia | Mild |
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| | Femoral | Myelofibrosis | Minimal |
| Lung | | Alveolar/Bronchiolar Carcinoma | Single |
| Note: [ALV BRON CARC] TGLs = 1-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6840

TRT#: 11

SEX: Female

DAY ON TEST: 733

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|-----------------------|-------------------------|--------------------------|---------|
| Adrenal Gland | Capsule | Histiocytic Sarcoma | |
| Bone Marrow | Femoral | Histiocytic Sarcoma | |
| | Sternal | Histiocytic Sarcoma | |
| | Calvarium | Myelofibrosis | Minimal |
| Kidney | | Histiocytic Sarcoma | |
| Liver | | Hepatocellular Carcinoma | Single |
| | | Histiocytic Sarcoma | |
| Note: HEPATOCLR CARC | TGLs = 4-9 | | |
| Note: [HISTIO SARC] | TGLs = 2,3,4-1+9 | | |
| Lymph Node | Mandibular | Histiocytic Sarcoma | |
| | Mesenteric | Histiocytic Sarcoma | |
| | Pancreatic | Histiocytic Sarcoma | |
| | Renal | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] | TGLs = 1,7,8,9-3+7+8+10 | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST | TGLs = 10-6 | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] | TGLs = 5,6-1 | | |
| Thymus | | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] | TGLs = 11-2 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6840

TRT#: 11

SEX: Female

DAY ON TEST: 733

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851900

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6841

TRT#: 11

SEX: Female

DAY ON TEST: 736

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|----------------------|---------------------------|-----------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Marked |
| Brain | Hypothalamus | Compression | |
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL NODULE SEEN AT NECROPSY | | | |
| Liver | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 3-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Stomach | | | |
| Note: STOMACH NODULE FOUND AT NECR COULD NOT BE FOUND AT TRIM | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6842

TRT#: 11

SEX: Female

DAY ON TEST: 640

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------|----------------|--------------|
| Liver | | Cytomegaly | Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Mammary Gland | | Adenocarcinoma | |
| Note: C O DEATH: MAMMARY GLAND ADENOCARCINOMA. | | | |
| Note: [ADENOCARC] TGLs = 1-8 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLS = 2-6+7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6843

TRT#: 11

SEX: Female

DAY ON TEST: 736

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Kidney | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-------------|---|--------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| Intestine Small | Jejunum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 3,4,5-7+8+9 | | | |
| Liver | | Lymphoma Malignant Undifferentiated Cell Type | |
| Lymph Node | Pancreatic | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 6-11 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: NO CORRESP LESION FOR ENLARGED MAND L NODE SEEN AT NECROPSY | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT SEEN AT NECROPSY | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6844

TRT#: 11

SEX: Female

DAY ON TEST: 736

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Liver | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--|-------------------|-------------------|------------------|
| Adrenal Gland | Medulla | Hyperplasia | Minimal |
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Femoral | Myelofibrosis | Mild |
| Harderian Gland | | Atrophy | Minimal |
| Kidney | | Cyst | Moderate |
| Note: CYST TGLs = 3-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: MAND L N: NORMAL [Ectasia TGLs = 1-8] | | | |
| Pituitary Gland | | | |
| Note: PITUITARY GL.- INSUFFICIENT TISSUE. | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6845

TRT#: 11

SEX: Female

DAY ON TEST: 624

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Ileum
Lymph Node
Salivary Glands
Stomach - Glandular

Adrenal Gland - Medulla
Intestine Large - Cecum
Islets, Pancreatic
Nose
Skin
Thyroid Gland

Brain
Intestine Large - Rectum
Kidney
Pancreas
Spleen
Trachea

Esophagus
Intestine Small - Duodenum
Liver
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Intestine Large - Colon
Thymus

Intestine Small - Jejunum

Mammary Gland

Parathyroid Gland

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Bone
Note: C O DEATH: OSTEOSARCOMA OF SCAPULA AND METASTASES
Note: OSTEOSARC TGLs = 1-8
Bone Marrow
Calvarium
Sternal
Harderian Gland
Lung
[Osteosarcoma TGLS = 3-2]
Lymph Node
Note: MAND L N: NORMAL
Ovary
Uterus
Note: HYPERPLASIA TGLs = 2-6+7

Osteosarcoma
Myelofibrosis
Myelofibrosis
Adenoma
Osteosarcoma
Osteosarcoma
Hyperplasia
Minimal
Mild
Metastatic (Bone)
Metastatic (Uncertain Primary Site)
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6846

TRT#: 11

SEX: Female

DAY ON TEST: 736

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Liver |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|----------------------|----------------------------------|-------------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Mild |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 6-9 | | | |
| Note: MAND L N: NORMAL | | | |
| Mammary Gland | | Adenocarcinoma | |
| [Adenocarcinoma TGLS = 1-7] | | | |
| Ovary | | Angiectasis | Marked |
| Note: ANGIECTASIS TGLs = 4-6 | | | |
| [Angiectasis TGLS = 4-6] | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 2-6 | | | |
| Skin | Subcut Tiss | Acanthosis | Mild |
| | | Fibrosarcoma | |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 5-8 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Moderate |
| Note: HYPERPLASIA TGLs = 7-6 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 3-6 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6846

TRT#: 11

SEX: Female

DAY ON TEST: 736

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851906

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6847

TRT#: 11

SEX: Female

DAY ON TEST: 677

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|----------------------|---|------------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Moderate |
| Intestine Small | Ileum | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 2-8 | | | |
| Liver | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: C O DEATH: LYMPOMA MALIGN UNDIFF, MULTIPLE ORGANS | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N: NORMAL | | | |
| Note: LYMPH MAL UNDF TGLs = 2-8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6848

TRT#: 11

SEX: Female

DAY ON TEST: 621

DOSE: 3 PPM 1-1

DISP: Natural Death

HISTO: 851908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|-------------------|---|---------------|
| Bone Marrow | Femoral Calvarium | Hemangiosarcoma Myelofibrosis | Mild |
| Liver | | Hepatocellular Adenoma Lymphoma Malignant Undifferentiated Cell Type | Single |
| Lymph Node Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin Note: HEMANGIOSARC TGLs = 1-7 | Subcut Tiss | Hemangiosarcoma | |
| Spleen Note: [LYMPH MAL UNDF] TGLs = 2-1 Note: C O DEATH: LYMPHOMA MALIG UNDF, SPLEEN AND LIVER; Note: HEMANGIOSARCOMA, SKIN AND BONE MARROW | | Lymphoma Malignant Undifferentiated Cell Type | |
| Uterus Note: HYPERPLASIA TGLs = 3-6 Note: POLYP STROMAL TGLs = 3-6 | Endometrium | Hyperplasia Polyp Stromal | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6849

TRT#: 11

SEX: Female

DAY ON TEST: 736

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------|------------------------|--------------|
| Bone Marrow | Femoral | Hemangiosarcoma | |
| Harderian Gland | | Adenoma | |
| Liver | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 2-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | | |
| Note: SEEN AT NECROPSY; HOWEVER, ONLY ONE OVARY FOUND AT TRIM | | | |
| Note: NO CORRESP LESION FOR YELLOW-BLACK OVARIAN NODULE | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6850

TRT#: 11

SEX: Female

DAY ON TEST: 736

DOSE: 3 PPM 1-1

DISP: Terminal Sacrifice

HISTO: 851910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------|------------------------------------|--------------------------------|
| Liver | | Hepatocellular Adenoma Necrosis | Single Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 3-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis Hyperkeratosis | Minimal Minimal |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECROPSY | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6851

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|---------------|----------------------------------|------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| [Hepatocellular Adenoma TGLS = 1,2,3,4-1+11+12+13] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Renal | Histiocytic Sarcoma | |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: INFILTRAT CELL TGLs = 5-7 | | | |
| Note: HEMA CELL PROL TGLs = 5-7 | | | |
| Note: [HISTIO SARC] TGLs = 7-10 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | | Necrosis | Moderate |
| Note: NECROSIS TGLs = 6-9 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Hemangiosarcoma | |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: HEMANGIOSARC TGLs = 8-8 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6851

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851621

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hemangiosarcoma

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6852

TRT#: 12

SEX: Female

DAY ON TEST: 617

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | |
|---------------|------|--------|
| Mammary Gland | Skin | Thymus |
|---------------|------|--------|

OBSERVATIONS

| | | | |
|---------------|------------|----------------------------------|----------------------------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Mild |
| Heart | Myocardium | Inflammation | Acute, Multifocal, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Mild |

Note: ABSCESS OF SALIVARY GLANDS

Note: HEPATOCLR ADEN TGLs = 3,4-7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Lymph Node

Note: MAND L N: NORMAL

Ovary

Follicle

Cyst

Note: CYST TGLs = 7-9

Salivary Glands

Abscess

Marked

Note: ABSCESS TGLs = 1,5,6-6+8

Spleen

Hematopoietic Cell Proliferation

Moderate

[Hematopoietic Cell Proliferation TGLS = 2-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6853

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-------------|------------------------|------------------|
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| [Hepatocellular Adenoma TGLS = 2,3,4,5,6,7-1+7+8+9+10] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Duct | Ectasia | Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6854

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|-------------|--------------------------|----------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8 [Necrosis TGLS = 1,2,3-1+8] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 4-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6855

TRT#: 12

SEX: Female

DAY ON TEST: 630

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------------|-------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Intestine Large - Cecum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Ovary | Pancreas | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|---------------------------|---------------|-------------------|--------|
| Intestine Small - Jejunum | Mammary Gland | Parathyroid Gland | Thymus |
|---------------------------|---------------|-------------------|--------|

OBSERVATIONS

| | | | |
|-----------------|------------|----------------------------------|-------------------------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Moderate |
| Heart | Myocardium | Inflammation | Acute, Multifocal, Mild |
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Histiocytic Sarcoma | |

Note: [HISTIO SARC] TGLs = 2-7

Note: HISTIOCYTIC SARCOMA; LUNG INFLAMMATION

Note: C O DEATH: TOXIC HEPATOPATHY;

Note: [EOSIN FOCUS] TGLs = 2-7

| | | | |
|------|----------|-----------------------------|----------------|
| Lung | Alveolus | Inflammation | Acute, Minimal |
| | | [Inflammation TGLS = 3-2] | |

Lymph Node
Note: MAND L N: NORMAL

| | | | |
|------|--|----------------|---------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

| | | | |
|--------|--|----------------------------------|--|
| Spleen | | Parasite Metazoan | |
| | | Histiocytic Sarcoma | |
| | | Note: [HISTIO SARC] TGLs = 1-1 | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6855

TRT#: 12

SEX: Female

DAY ON TEST: 630

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851625

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6856

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|-------------|--------------------------|--------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: CLEAR CL FOCUS TGLs = 4,5,6,9-7+8 | | | |
| Note: HEPATOCLR ADEN TGLs = 3,7,8,9-9+10 | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Mixed | |
| Note: LYMPH MAL MIXD TGLs = 1-11 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Cystic, Mild |
| Uterus | Endometrium | | |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6857

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Kidney
Ovary
Salivary Glands
Thymus

Bone
Heart
Intestine Small - Ileum
Lung
Pancreas
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Intestine Small
Liver

Sternal
Duodenum

Myelofibrosis
Inflammation
Clear Cell Focus
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Necrosis

Minimal
Chronic Active, Minimal

Moderate
Minimal
Multiple
Minimal

Hepatocyte

[Hepatocellular Adenoma TGLS = 3,4-1+8]

Lymph Node
Note: HYPERPLASIA TGLs = 1-7
Note: MAND L N: NORMAL

Mesenteric

Hyperplasia

Lymphoid, Mild

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Uterus
Note: HYPERPLASIA TGLs = 2-6

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6858

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------|------------------------|--------------|
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 1,2-1+7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 4-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 3-6+8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6859

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-------------------------------------|-------------|-------------------|-----------------------|
| Intestine Small | Jejunum | Adenocarcinoma | |
| Note: ADENOCARC TGLs = 1-8 | | | |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Sinusoid | Congestion | Mild |
| | | Cytomegaly | Minimal |
| | | Necrosis | Coagulative, Moderate |
| Note: CLEAR CL FOCUS TGLs = 3,4-1+7 | | | |
| Note: BASOPH FOCUS TGLs = 3-1 | | | |
| [Clear Cell Focus TGLS = 5-9] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Leiomyosarcoma | |
| [Leiomyosarcoma TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6860

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------|----------------------------------|-----------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 [Hepatocellular Adenoma TGLS = 1,2,4,5-1+8] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 6-4 Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6861

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Ovary

OBSERVATIONS

| | | | |
|--|---------------|----------------------------------|-----------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | Hepatocyte | Necrosis | Minimal |
| Note: [EOSIN FOCUS] TGLs = 3,4-1 | | | |
| Lung | | Hemorrhage | Mild |
| Note: HEMORRHAGE TGLs = 5-2 | | | |
| Note: PULMONARY HEMORRHAGE PROBABLY AGONAL | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Necrotizing, Moderate |
| Note: INFLAMMATION TGLs = 6-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6861

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851631

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6862

TRT#: 12

SEX: Female

DAY ON TEST: 629

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|-----------------|----------|--------------------------|-------------------|
| Intestine Small | Duodenum | Hemorrhage | Moderate |
| Kidney | | Mineralization | Mild |
| Liver | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 1,2,3-7

Note: HEPATOCLR ADEN TGLs = 1,2,3-7

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|------|--|----------------|---------|
| Skin | | Hyperkeratosis | Minimal |
|------|--|----------------|---------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6863

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|---------------|------------------------------|--------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Moderate |
| | | Hepatocellular Adenoma | Single |
| [Cytomegaly TGLs = 7-9] | | | |
| Lymph Node | Renal | Infiltration Cellular | Histiocyte, Marked |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 4-7 | | | |
| Ovary | Follicle | Cyst | |
| Note: GRAN THECA BGN TGLs = 6-6 | | Granulosa-Theca Tumor Benign | |
| Note: CYST TGLs = 6-6 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |
| Skin | Subcut Tiss | Acanthosis | Minimal |
| | | Hemangiosarcoma | |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: HEMANGIOSARC TGLs = 2-8 | | | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED GROSSLY | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6863

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851633

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Note: HYPERPLASIA TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6864

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|---|----------------------|---------------------------|----------------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Moderate |
| Liver | | Cytomegaly | Minimal |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 3,4,5-7+8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Mild |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECR | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6865

TRT#: 12

SEX: Female

DAY ON TEST: 666

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|---------------|--------------------------|-------------------|
| Gallbladder | | Lymphoma Malignant Mixed | |
| Kidney | | Lymphoma Malignant Mixed | |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Lymphoma Malignant Mixed | |
| | | Necrosis | Coagulative, Mild |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: LYMPHOMA MALIG MIXD, MULTIPLE ORGANS | | | |
| Note: [LYMPH MAL MIXD] TGLs = 1,2-7 | | | |
| Lung | | Lymphoma Malignant Mixed | |
| Lymph Node | Mesenteric | Hyperplasia | Plasma Cell, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 4-8 | | | |
| Ovary | | Lymphoma Malignant Mixed | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Mixed | |
| Note: [LYMPH MAL MIXD] TGLs = 3-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6865

TRT#: 12

SEX: Female

DAY ON TEST: 666

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851635

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6866

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Mammary Gland | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| [Hepatocellular Adenoma TGLS = 2,3,4,5,6-1+8] | | | |
| [Hepatocellular Carcinoma TGLS = 2,3,4,5-1+8] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Pancreas | Artery | Inflammation | Chronic, Mild |
| Skin | | Acanthosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 7-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6867

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-----------------------------------|-------------------|------------------------|--------------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 3,4-1 | | | |
| Lymph Node | Mandibular | Abscess | Moderate |
| | Mandibular | Bacterium | |
| | Mesenteric, Sinus | Ectasia | Marked |
| Note: ABSCESS TGLs = 2-7 | | | |
| Note: BACTERIUM TGLs = 2-7 | | | |
| Note: ECTASIA TGLs = 1-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6868

TRT#: 12

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-------------------------------------|-------------------|------------------------------|------------------|
| Liver | | Clear Cell Focus | Mild |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Cytomegaly TGLS = 4,5,6,8-1+8+9] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 7-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| [Ectasia TGLS = 3-8] | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Cystic, Moderate |
| Uterus | Endometrium | | |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6869

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------------------------|-------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC | TGLs = 1,2-7 | | |
| Note: HEPATOCLR ADEN | TGLs = 1,3-7 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6870

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|------------------------|--------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-1+7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6871

TRT#: 12

SEX: Female

DAY ON TEST: 694

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: .851641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|-------------|-------|--|--|
| Gallbladder | Ovary | | |
|-------------|-------|--|--|

OBSERVATIONS

| | | | |
|-------|------------|--------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1,2-1

Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMAS;

[Hepatocellular Carcinoma TGLS = 1,2-1+7]

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|-----------------|---------------|---------|--|
| Pituitary Gland | Pars Distalis | Adenoma | |
|-----------------|---------------|---------|--|

| | | | |
|------|--|-------------------|-------------------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Inflammation | Necrotizing, Mild |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6872

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Mammary Gland |
| Nose | Ovary | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|---------------|--------------------------------|------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Moderate |
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR CARC TGLs = 5,6-1+8 [Hepatocellular Adenoma TGLS = 5,6-1+8] | | | |
| Lung | Interstitium | Inflammation | Chronic, Minimal |
| Lymph Node | Mesenteric | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 2-9 Note: MAND L N: NORMAL | | | |
| Pancreas | Acinus | Atrophy | Marked |
| | Duct | Ectasia | Marked |
| Note: ECTASIA TGLs = 1-7 Note: ATROPHY TGLs = 1-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thymus | | Lymphoma Malignant Lymphocytic | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6872

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851642

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL LYMP TGLs = 3-2

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Note: HYPERPLASIA TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6873

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|-------------|------------------------|-----------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Moderate |
| Note: [HEPATOCLR ADEN] TGLs = 1,2,3,4,6,7-1+7+8+9 | | | |
| Note: CYTOMEGALY TGLs = 5-8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6874

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|-----------|--------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 2,3,4-1+7 [Hepatocellular Adenoma TGLS = 2,3-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Adenocarcinoma | |
| Uterus | | | |
| Note: ADENOCARC TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6875

TRT#: 12

SEX: Female

DAY ON TEST: 707

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Ovary | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|---------------|--------------------------|-----------------------|
| Brain | Cerebrum | Compression | |
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL ENLARGEMANT NOTED AT NECROPSY | | | |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR CARC TGLs = 4-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 4-7 | | | |
| Note: TOXIC HEPATOPATHY; PITUITARY ADENOMA | | | |
| Lymph Node | Mesenteric | Hyperplasia | Plasma Cell, Moderate |
| Note: HYPERPLASIA TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | | Hypoplasia | Marked |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 3-6 | | | |
| Skin | | Hyperkeratosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6875

TRT#: 12

SEX: Female

DAY ON TEST: 707

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851645

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 5-6+8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6876

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------------|--------------------------|--------------------|-------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Mild |
| | Sternal | Myelofibrosis | Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| Note: CLEAR CL FOCUS TGLs = 2,3,4-1+8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | Endometrium, Endothelium | Metaplasia | Squamous, Minimal |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |
| Note: METAPL TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6877

TRT#: 12

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-------------|------------------------|-------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3,4,6-9+10 | | | |
| Note: CLEAR CL FOCUS TGLs = 5-8 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Minimal |
| Note: HYPERPLASIA TGLs = 10-11 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 8-6 | | | |
| Pancreas | Duct | Ectasia | Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA TGLs = 7,9-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6878

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|---------------|--------------------------|----------------------|
| Bone Marrow | Calvarium | Myelofibrosis | Minimal |
| Harderian Gland | | Adenoma | |
| Intest Small | | | |
| Note: IN DUODENUM, JEJUNUM AND ILEUM | | | |
| Note: NO CORRESP LESION FOR NODULES SEEN AT NECROPSY | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| [Hepatocellular Adenoma TGLS = 7,8,9-1+12] | | | |
| [Hepatocellular Carcinoma TGLS = 7,8,10-11] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 3-10 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|-------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 6878 | TRT#: 12 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: 10 PPM 0-3 | DISP: Terminal Sacrifice | HISTO: 851648 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------------------|----------------------------|----------------------------|---------------------------|
| Note: HYPERPLASIA TGLs = 1-7 | | | |
| Thyroid Gland | Follicular Cel Follicle | Adenoma Hyperplasia | Nodular, Moderate |
| Uterus | Endometrium | Angiectasis Hyperplasia | Marked Cystic, Minimal |
| Note: [ANGIECTASIS] TGLs = 2-8 | | | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6879

TRT#: 12

SEX: Female

DAY ON TEST: 640

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Uterus | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

AUTO PRECLUDES DIAG.

| |
|-----------------|
| Urinary Bladder |
|-----------------|

OBSERVATIONS

| | | | |
|--------------|------------|------------------------|-------------------------|
| Blood Vessel | Aorta | Inflammation | Chronic Active, Minimal |
| Bone Marrow | Femoral | Hemangiosarcoma | |
| | Sternal | Hemangiosarcoma | |
| | Calvarium | Myelofibrosis | Mild |
| | Sternal | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: SPLENIC AND BONE MARROW HEMANGIOSARCOMAS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

[Hepatocellular Adenoma TGLS = 2,3-1+7]

Lymph Node

Note: MAND L N: NORMAL

Pituitary Gland

Pars Distalis

Hyperplasia

Nodular, Minimal

Skin

Acanthosis

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6879

TRT#: 12

SEX: Female

DAY ON TEST: 640

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851649

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hyperkeratosis

Minimal

Urin Bladder

Hemangiosarcoma

Note: HISTOPATHOLOGIC ANALYSIS

Note: NO CORRESP LESION FOR URINARY BLADDER ENLARGEMENT NOTED

Note: AT NECROPSY, BECAUSE BLADDER WAS TOO AUTOLYZED FOR

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6880

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--------------------------------|---|--------------------------|--------------------|
| Harderian Gland | | Adenoma | |
| Kidney | | Metaplasia | Osseous, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 3,4,5,6,7,8-1+7+8] | | |
| | [Hepatocellular Carcinoma TGLS = 3,4,5-7] | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | | Mineralization | Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 1,2-1 | | | |
| Uterus | | Hamartoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6880

TRT#: 12

DOSE: 10 PPM 0-3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 851650

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6881

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

OBSERVATIONS

| | | | |
|---|----------------|--------------------------|--------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| [Hepatocellular Carcinoma TGLS = 1,2,3,4-7+8] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 5-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6882

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | |
|-------------|---------------|--------|
| Gallbladder | Mammary Gland | Thymus |
|-------------|---------------|--------|

OBSERVATIONS

| | | | |
|---|------------|---|-------------------|
| Bone Marrow | Sternal | Myelofibrosis | Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| [Necrosis TGLS = 1,2,3-8+9] | | | |
| Lymph Node | Lumbar | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mandibular | Lymphoma Malignant Undifferentiated Cell Type | |
| | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| | Renal | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N: NORMAL | | | |
| Note: LYMPH MAL UNDF TGLs = 5,6,7-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 4-1 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | | | |
| Note: ONLY PART OF UTERUS PRESENT ON SLIDE #6 IS CERVIX UTERI | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6882

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851652

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6883

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------|------------------------|-----------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: [HEPATOCLR ADEN] TGLs = 1,2,3,4-1+7+8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6884

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Ovary
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Liver

Femoral

Myelofibrosis
Clear Cell Focus
Cytomegaly
Eosinophilic Focus
Fatty Change
Hepatocellular Adenoma

Mild
Moderate
Mild
Multiple

Note: HEPATOCLR ADEN TGLs = 3,4,6-9
Note: EOSIN FOCUS TGLs = 5-8

Lymph Node

Mesenteric, Sinus

Ectasia

Minimal

Note: MAND L N: NORMAL
Note: ECTASIA TGLs = 7-7

Pituitary Gland
Skin

Pars Distalis

Adenoma
Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Spleen
Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT SEEN AT NECROPSY

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6885

TRT#: 12

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|----------------|------------------------|----------------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 3,4,5-1+7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-9 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT TRIM | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| | | Polyp Stromal | |
| Note: HYPERPLASIA TGLs = 1-9 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6886

TRT#: 12

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|---|--|--------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatocellular Adenoma TGLS = 1,2,4-8+9] | | |
| | [Hepatocellular Carcinoma TGLS = 1,2,4-10] | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT TRIM | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6887

TRT#: 12

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|----------------------------------|-------------------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR CARC TGLs = 4,5,6,7-7 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Minimal |
| Note: HYPERPLASIA TGLs = 8-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Chronic, Moderate |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 3-6 | | | |
| Pancreas | | Necrosis | Moderate |
| Note: NECROSIS TGLs = 2-4 | | | |
| Pituitary Gland | Pars Intermed | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6887

TRT#: 12

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851657

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6888

TRT#: 12

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|---------------|--------------------------|-----------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 1,2,4-7 [Hepatocellular Adenoma TGLs = 1,2,4-1+7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: HYPERPLASIA TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6889

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Kidney | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|-------------|------------------------------|--------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Intestine Small | Jejunum | Parasite Metazoan | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: [HEPATOCLR ADEN] TGLs = 7,8,9,10-9+10 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 4-2 | | | |
| Lymph Node | Mandibular | Hyperplasia | Lymphoid, Marked |
| | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 2,3-7+11 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Lymphoid, Moderate |
| Spleen | | | |
| Note: HYPERPLASIA TGLs = 5,6-8 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6890

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|---------------|------------------------|--------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| [Hepatocellular Adenoma TGLS = 1,2,3-7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6891

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---------------------------------|---|----------------------------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Liver | | Clear Cell Focus | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 2,3-1+8] | | |
| | [Hepatocellular Carcinoma TGLS = 2,3-8] | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6892

TRT#: 12

SEX: Female

DAY ON TEST: 540

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|-------------|--------------------|-----------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Minimal |
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| Note: C O DEATH: TOXIC HEPATOPATHY [Cytomegaly TGLS = 1-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6893

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------------|---|----------------|--------------------------|
| Bone | | Osteoma | |
| Note: OSTEOMA | TGLs = 1-5 | | |
| Bone Marrow | | Calvarium | Myelofibrosis |
| | | Sternal | Myelofibrosis |
| Brain | | Cerebrum | Compression |
| Note: COMPRESSION | TGLs = 2-3 | | |
| Intestine Large | | Rectum | Parasite Metazoan |
| Liver | | | Clear Cell Focus |
| | | | Cytomegaly |
| | | | Eosinophilic Focus |
| | | | Fatty Change |
| | | | Hepatocellular Adenoma |
| | | | Hepatocellular Carcinoma |
| | | | Necrosis |
| | | Hepatocyte | |
| Note: HEPATOCLR ADEN | TGLs = 5,6,8-8 | | |
| | [Hepatocellular Carcinoma TGLS = 5,6,7-8] | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6893

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851663

ORGAN AND ACCOUNTABLE SITE STATUS

Parasite Metazoan

Spleen

Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECROPSY

Thyroid Gland

Follicle

Hyperplasia

Nodular, Minimal

Uterus

Endometrium

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 3-6+7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6894

TRT#: 12

SEX: Female

DAY ON TEST: 650

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 861664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--|--------------|----------------------------------|--------------------------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Moderate |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Hematopoietic Cell Proliferation | Moderate |
| | | Necrosis | Coagulative, Minimal |
| Note: CYTOMEGALY TGLs = 3-1+8 | | | |
| Note: CLEAR CL FOCUS TGLs = 4-8 | | | |
| Note: C O DEATH: TOXIC HEPATOPATHY; SUPPURATIVE INFLAM OF UTERUS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Chronic, Moderate |
| Nose | Nerve | Inflammation | Chronic Active, Mild |
| Ovary | | Inflammation | Chronic Active, Moderate |
| Pancreas | Interlobular | Inflammation | Chronic, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLS = 2-1] | | | |
| Urinary Bladder | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6894

TRT#: 12

SEX: Female

DAY ON TEST: 650

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 861664

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Inflammation

Suppurative, Marked

Note: INFLAMMATION TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6895

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-------------------------------------|---------------|------------------------|------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| Note: CYTOMEGALY TGLs = 5-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-1 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6896

TRT#: 12

SEX: Female

DAY ON TEST: 704

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

| | | | |
|--|-------------|---|-----------------|
| Adrenal Gland | Capsule | Lymphoma Malignant Undifferentiated Cell Type | |
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Kidney | | Lymphoma Malignant Undifferentiated Cell Type | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Note: LYMPH MAL UNDF TGLs = 2,3-1 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3-1 | | | |
| Note: UNDIFFERENTIATED LYMPHOSARCOMA | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: LYMPH MAL UNDF TGLs = 1-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Stomach | Glandular | Lymphoma Malignant Undifferentiated Cell Type | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6897

TRT#: 12

SEX: Female

DAY ON TEST: 662

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone | Bone Marrow | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|--------------------|
| Adrenal Gland | Cortex | Lymphoma Malignant Mixed | |
| | Medulla | Lymphoma Malignant Mixed | |
| Note: [LYMPH MAL MIXD] | | | TGLs = 2-7 |
| Brain | Hypothalamus | Compression | |
| Kidney | | Lymphoma Malignant Mixed | |
| | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR ADEN | | | TGLs = 3,4,5-1+11 |
| Note: HEPATOCLR CARC | | | TGLs = 3,4,5-11+12 |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; TOXIC | | | |
| Note: HEPATOPATHY; MIXD CL LYMPHOSARCOMA; PITUITARY ADENOMA | | | |
| Lung | | Lymphoma Malignant Mixed | |
| Lymph Node | Mandibular | Lymphoma Malignant Mixed | |
| | Mesenteric | Lymphoma Malignant Mixed | |
| Note: [LYMPH MAL MIXD] | | | TGLs = 6,7-6+8+9 |
| Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6897

TRT#: 12

SEX: Female

DAY ON TEST: 662

DOSE: 10 PPM 0-3

DISP: Moribund Sacrifice

HISTO: 851667

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|--------------|--------------------------------|------------------|
| Note: ADENOMA | TGLs = 8-8 | | |
| Salivary Glands | | Mucocele | |
| Note: MUCOCELE | TGLs = 11-10 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Lymphoma Malignant Lymphocytic | |
| | | Parasite Metazoan | |
| | | Lymphoma Malignant Mixed | |
| Spleen | | | |
| Note: [LYMPH MAL MIXD] | TGLs = 1-7 | | |
| Stomach | | Inflammation | Chronic, Minimal |
| | | Ulcer | Minimal |
| Note: INFLAMMATION | TGLs = 10-10 | | |
| Note: ULCER | TGLs = 9-10 | | |
| Forestomach | | | |
| Glandular | | | |
| Subcut Tiss | | | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6898

TRT#: 12

SEX: Female

DAY ON TEST: 661

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Thymus | Thyroid Gland | Uterus |

MISSING

| | | |
|-------------|-------------------------|---------------|
| Gallbladder | Intestine Large - Colon | Mammary Gland |
|-------------|-------------------------|---------------|

OBSERVATIONS

| | | | |
|-------------|------------|-----------------|---------------------|
| Bone Marrow | Sternal | Hemangiosarcoma | |
| Heart | Myocardium | Mineralization | Multifocal, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Necrosis | Coagulative, Marked |
| | | Thrombosis | |

Note: C O DEATH: HEMANGIOSARCOMA, MULTIPLE ORGANS

Note: HEMANGIOSARC TGLs = 1,2,3-1+9+10

Lymph Node

Note: MAND L N: NORMAL

Skin

| | |
|-------------------|---------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |
| Hemangiosarcoma | |

Spleen

[Hemangiosarcoma TGLs = 5,6-1+7]

| | | | |
|---------|-----------|------------|------|
| Stomach | Glandular | Hemorrhage | Mild |
|---------|-----------|------------|------|

Note: NO CORRESP LESION FOR FOCUI OF FORESTOMACH NOTED AT TRIM

Note: HEMORRHAGE TGLs = 7-8

Uterus

Note: NO CORRESP LESION FOR CYST OF LEFT UTERUS NOTED AT NECROPSY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6898

TRT#: 12

SEX: Female

DAY ON TEST: 661

DOSE: 10 PPM 0-3

DISP: Natural Death

HISTO: 851668

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6899

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|---------------|--------------------------|----------------------|
| Brain | Hypothalamus | Compression | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Minimal |
| [Hepatocellular Adenoma TGLS = 1-7] | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-7+8+9] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 4-6 | | | |
| Skin | | Acanthosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Nodular, Marked |
| Thyroid Gland | Follicle | | |
| Note: HYPERPLASIA TGLs = 5-6 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6900

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Mammary Gland |
| Nose | Ovary | Parathyroid Gland | Pituitary Gland |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-----------------|--------|
| Salivary Glands | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|----------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Kidney | | Mineralization | Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: CLEAR CL FOCUS TGLs = 3-1 [Necrosis TGLS = 2,3,4-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 5-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Duct | Ectasia | Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6900

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 0-3

DISP: Terminal Sacrifice

HISTO: 851670

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6901

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---|---------------------|--------------------------|---------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR ADEN | TGLs = 2,3-1 | | |
| Note: HEPATOCLR CARC | TGLs = 2,3,4,5-9+10 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Mammary Gland | | Adenocarcinoma | |
| Note: [ADENOCARC] | TGLs = 6-7 | | |
| Ovary | Rete Ovarii | Cyst | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECR | | | |
| Thyroid Gland | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6902

TRT#: 13

SEX: Female

DAY ON TEST: 694

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |

MISSING

| | | |
|-------------|---------------|--------|
| Gallbladder | Mammary Gland | Thymus |
|-------------|---------------|--------|

OBSERVATIONS

| | | | |
|---|------------|--------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR CARC TGLs = 1,2-1+7 | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: MADE ON SKIN ON SLIDE #6 | | | |
| Note: DIAGNOSIS OF SKIN PARASITISM AND INFLAMMATION WAS | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6903

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-------------------|-----------------------------|-------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: CLEAR CL FOCUS TGLs = 2-1 [Fatty Change TGLS = 3,5-1+7] [Hepatocellular Carcinoma TGLS = 4-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1-4 Note: MAND L N: NORMAL | | | |
| Ovary | | Granulosa Cell Tumor Benign | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6904

TRT#: 13

SEX: Female

DAY ON TEST: 667

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMA; TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 3-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6905

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|------------------------|------------------|
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| [Hepatocellular Adenoma TGLS = 3-8] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-7 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6906

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-----------------|---|--------------------------|--------------------|
| Harderian Gland | | Adenoma | |
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 2,3,5-1+9] | | |
| | [Hepatocellular Carcinoma TGLS = 2,3,4,5-8+9] | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| | Note: MAND L N: NORMAL | | |
| | Note: HYPERPLASIA TGLs = 6-10 | | |
| | Note: ECTASIA TGLs = 6-10 | | |
| Pancreas | Acinus | Atrophy | Mild |
| | Interlobular | Inflammation | Chronic, Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6906

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851686

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 1-7

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6907

TRT#: 13

SEX: Female

DAY ON TEST: 699

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Thyroid Gland | Trachea | Uterus |

MISSING

| | | | |
|-------------|--------------------------|-----------------|--------|
| Gallbladder | Intestine Large - Rectum | Pituitary Gland | Thymus |
|-------------|--------------------------|-----------------|--------|

AUTO PRECLUDES DIAG.

Stomach - Glandular

OBSERVATIONS

| | | | |
|--------------|--------------|------------------------|----------------------|
| Blood Vessel | Aorta | Inflammation | Chronic Active, Mild |
| Heart | Coron Artery | Inflammation | Chronic, Minimal |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |

Note: HEPATOCLR ADEN TGLs = 3-8

Note: INFLAMMATION OF URINARY BLADDER

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Lymph Node

Note: MAND L N: NORMAL

Pancreas Artery

Note: ON SLIDE #4 IS PANCREATIC ARTERY

Note: THE ASSUMPTION IS MADE THAT THE ARTERY WITH INFLAMMATION

Skin Hyperkeratosis

Spleen Minimal

Note: NO CORRESP LESION FOR SPLEEN ENLARGEMENT NOTED AT NECROPSY

Urinary Bladder Inflammation Acute, Moderate

Note: INFLAMMATION TGLs = 1,2-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6907

TRT#: 13

SEX: Female

DAY ON TEST: 699

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851687

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6908

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|----------------|------------------------|--------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Clear Cell Focus | Mild |
| | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: [HEPATOCLR ADEN] TGLs = 1,2,3-8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 5-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hyperplasia | Cystic, Mild |
| Uterus | Endometrium | | |
| Note: HYPERPLASIA TGLs = 4-6+7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6909

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Thymus | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|--|----------------|--------------------------|------------------|
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: CYTOMEGALY TGLs = 9-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 3,4,5,6,7-9+10 | | | |
| [Hepatocellular Adenoma TGLS = 3,8-8] | | | |
| Lymph Node | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: MAND L N: NORMAL | | | |
| Note: INFILTRAT CELL TGLs = 2-11 | | | |
| Ovary | Follicle | Cyst | |
| | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Inflammation | Chronic, Minimal |
| | Glandular | Inflammation | Chronic, Minimal |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6910

TRT#: 13

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------------------------|-------------|------------------------|--------------|
| Adrenal Gland | Cortex | Hyperplasia | Minimal |
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 2-7 | | | |
| Note: CLEAR CL FOCUS TGLs = 3-1+7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6911

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |

MISSING

| | | |
|-------|-----------------|--------|
| Ovary | Urinary Bladder | Uterus |
|-------|-----------------|--------|

OBSERVATIONS

| | | | |
|--|----------|--------------------------------|------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | Single |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 3,4,6-10 | | | |
| Note: HEPATOCLR ADEN TGLs = 3,4,6,7,8-7+8+10 | | | |
| [Hemangiosarcoma TGLS = 5-9] | | | |
| Lung | Alveolus | Alveolar/Bronchiolar Carcinoma | Single |
| | | Infiltration Cellular | Histiocyte, Mild |
| Note: ALV BRON CARC TGLs = 2-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Note: NO SECTION OF ENLARGED MESENTERIC LYMPH NODE WAS | | | |
| Note: TAKEN BECAUSE IT COULD NOT BE FOUND AT TRIM | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6911

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851691

ORGAN AND ACCOUNTABLE SITE STATUS

Parasite Metazoan

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6912

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|--------------|----------------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 3,4,5,6,7,8-7+8 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: INFILTRAT CELL TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Pancreas | Acinus | Atrophy | Minimal |
| | Interlobular | Inflammation | Chronic, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6912

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851692

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6913

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------------------------|----------------------|----------------------------------|-----------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Moderate |
| Gallbladder | Epithelium | Inclusion Body Intracytoplasmic | Minimal |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| Note: HEPATOCLR ADEN TGLs = 3,4-1 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 2-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-8 | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-7 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6913

TRT#: 13

DOSE: 10 PPM 3-3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 851693

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6914

TRT#: 13

SEX: Female

DAY ON TEST: 653

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|-------------------|------------------|-----------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Brain | Hypothalamus | Compression | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| Note: CLEAR CL FOCUS TGLs = 1,2,3-7 | | | |
| Note: C O MORB: TOXIC HEPATOPATHY; PITUITARY ADENOMA | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 6-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 5-6 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: NO CORRESP LESION FOR UTERINE NODULES NOTED AT NECROPSY | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6915

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|---|----------------------------------|----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Moderate |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| | [Hepatocellular Adenoma TGLS = 2,3,4-1+7] | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLEEN ENLARGEMENT NOTED AT NECR | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6916

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|---------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR ADEN | TGLs = 2-1 | | |
| Note: HEPATOCLR CARC | TGLs = 2-7+8+9+10 | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Mesenteric | Infiltration Cellular | Histiocyte, Minimal |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR ENLARGED SPLEEN NOTED AT NECR | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6916

TRT#: 13

DOSE: 10 PPM 3-3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 851696

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6917

TRT#: 13

SEX: Female

DAY ON TEST: 654

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|---|----------------|----------------------------------|----------------------|
| Bone Marrow | Femoral | Hemangiosarcoma | |
| Note: HEMANGIOSARC | TGLs = 6-5 | | |
| Liver | | Basophilic Focus | Minimal |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Moderate |
| | | Hemangiosarcoma | |
| | | Necrosis | Coagulative, Minimal |
| Note: HEMANGIOSARC | TGLs = 3,4,5-8 | | |
| Note: HEMANGIOSARCOMAS, MULTIPLE ORGANS | | | |
| Note: C O MORB: TOXIC HEPATOPATHY; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Hemangiosarcoma | |
| | | Hyperkeratosis | Minimal |
| [Hyperkeratosis TGLS = 2-7] | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 1-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6917

TRT#: 13

SEX: Female

DAY ON TEST: 654

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851697

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6918

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|------------|--|--------------------------|----------------------|
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |
| | [Hepatocellular Adenoma TGLS = 6,7,9,10,11-8+9+10] | | |
| | [Hepatocellular Carcinoma TGLS = 6,7,8-1+7] | | |
| Lymph Node | Mandibular | Lymphoma Malignant Mixed | |
| | Renal | Lymphoma Malignant Mixed | |
| | Note: NO CORRESP LESION FOR ENLARGED MESENTERIC L NODE | | |
| | Note: [LYMPH MAL MIXD] TGLs = 1,5-6+11 | | |
| | Note: THAT WAS NOTED AT NECROPSY | | |
| Ovary | | Mixed Tumor Benign | |
| | | Thrombosis | |
| | Note: [MIXD TUMOR BGN] TGLs = 3-6 | | |
| | Note: THROMBUS TGLs = 3-6 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6918

TRT#: 13

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851698

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Lymphoma Malignant Mixed

Note: [LYMPH MAL MIXD] TGLs = 2-1

Thyroid Gland

Follicle

Hyperplasia

Nodular, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6919

TRT#: 13

SEX: Female

DAY ON TEST: 725

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Heart | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lymph Node | Nose | Ovary |
| Pancreas | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | | | |
|-------------|---------------|-------------------|--------|
| Gallbladder | Mammary Gland | Parathyroid Gland | Thymus |
|-------------|---------------|-------------------|--------|

OBSERVATIONS

| | | | |
|--|---------------|--------------------------|--------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Intestine Large | Cecum, Mucosa | Hyperplasia | Mild |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Ulcer | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6919

TRT#: 13

SEX: Female

DAY ON TEST: 725

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851699

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6920

TRT#: 13

SEX: Female

DAY ON TEST: 624

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | | |
|-------------------------|---------------|--------|
| Intestine Large - Cecum | Mammary Gland | Thymus |
|-------------------------|---------------|--------|

OBSERVATIONS

| | | | |
|---|-----------------------|--------------------|-------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Kidney | | Inflammation | Chronic, Moderate |
| Note: INFLAMMATION TGLs = 2-1 | | | |
| Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Hemangiosarcoma | |
| Note: C O DEATH: TOXIC HEPATOPATHY; RENAL INFLAMMATION. | | | |
| Note: HEMANGIOSARC TGLs = 1,4-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Mesentery | | Inflammation | Chronic, Mild |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 5-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Depletion Lymphoid | Mild |
| Stomach | Epithelium, Glandular | Metaplasia | Squamous, Minimal |
| Uterus | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6920

TRT#: 13

SEX: Female

DAY ON TEST: 624

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851700

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NO CORRESP LESION FOR UTERINE NODULES NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6921

TRT#: 13

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Intestine Small Note: ULCER TGLs = 3-12 | Jejunum | Ulcer | Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| Note: CYTOMEGALY TGLs = 9-11 | | | |
| Note: HEPATOCLR CARC TGLs = 4,5,6,7,8,10-1+7+8+9+10 | | | |
| Lung | Artery | Thrombosis | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA TGLs = 2-4 | | | |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Rete Ovarii | Cyst | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

| | | | |
|------------------------|-------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 6921 | TRT#: 13 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: 10 PPM 3-3 | DISP: Terminal Sacrifice | HISTO: 851701 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------------|----------|----------------------------------|---------------|
| Note: ACANTHOSIS TGLs = 1-1 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6922

TRT#: 13

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---|----------------------------|----------------------------------|----------------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Mild |
| Brain | Hypothalamus | Compression | |
| Intestine Small | Duodenum | Inflammation | Chronic Active, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 4,5,6,8,9-1+7+9+10 [Cytomegaly TGLs = 7-8] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: ECTASIA TGLs = 3-11 Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |
| Skin | | Acanthosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hematopoietic Cell Proliferation | Minimal |
| Spleen | | | |
| Note: HEMA CELL PROL TGLs = 2-1 | | | |
| Thyroid Gland | Follicular Cel Follicle | Adenoma Hyperplasia | Nodular, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6922

TRT#: 13

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851702

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 10-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6923

TRT#: 13

SEX: Female

DAY ON TEST: 194

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Esophagus

Heart

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Lung

Nose

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

MISSING

Intestine Large - Cecum

Lymph Node

Mammary Gland

Salivary Glands

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Intestine Large

Colon

Parasite Metazoan

Note: CECUM NOT PRESENT ON SLIDE #4, BUT WAS MARKED PRESENT AT

Note: TRIM; LOST IN PROCESSING

Liver

Cytomegaly

Moderate

Note: C O DEATH: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: MISSING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6924

TRT#: 13

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Islets, Pancreatic
Nose
Spleen
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Kidney
Pancreas
Stomach - Forestomach

Bone
Heart
Intestine Small - Ileum
Lymph Node
Parathyroid Gland
Stomach - Glandular

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Trachea

MISSING

Thymus

OBSERVATIONS

Bone Marrow
Intestine Small
Liver

Sternal
Duodenum

Myelofibrosis
Ulcer
Cytomegaly
Eosinophilic Focus
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis

Mild
Moderate
Moderate
Moderate
Minimal
Single
Single
Coagulative, Minimal

[Hepatocellular Carcinoma TGLS = 2,3,4-1+7]

[Necrosis TGLS = 2,3,5-8]

Lung
Lymph Node
Note: MAND L N: NORMAL

Alveolar/Bronchiolar Adenoma

Single

Ovary
Note: CYST TGLs = 1-6

Periovarn Tiss

Cyst

Pituitary Gland
Skin

Pars Distalis

Adenoma
Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Thyroid Gland

Follicle

Hyperplasia

Nodular, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6924

TRT#: 13

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851704

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6925

TRT#: 13

SEX: Female

DAY ON TEST: 575

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Lung
Skin

Bone
Gallbladder
Intestine Small - Duodenum
Nose
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Parathyroid Gland
Trachea

Brain
Intestine Large - Colon
Islets, Pancreatic
Salivary Glands

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland

Capsule
Cortex

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic

Heart

Intestine Small

Ileum

Note: LYMPH MAL LYMP TGLs = 4-7

Kidney

Liver

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic
Necrosis

Coagulative, Minimal

Note: LYMPH MAL LYMP TGLs = 5,6-1

Lymph Node

Mandibular
Mesenteric

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 2,3-4+7

Note: C O DEATH: LYMPHOCYTIC LYMPHOSARCOMA, MULTIPLE ORGANS

Mesentery

Ovary

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 7-6

Pancreas

Pituitary Gland

Pars Distalis

Lymphoma Malignant Lymphocytic
Hyperplasia
Lymphoma Malignant Lymphocytic

Nodular, Mild

Spleen

Note: LYMPH MAL LYMP TGLs = 1-1

Stomach

Forestomach
Glandular

Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6925

TRT#: 13

SEX: Female

DAY ON TEST: 575

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Lymphoma Malignant Lymphocytic

Urinary Bladder

Lymphoma Malignant Lymphocytic

Uterus

Lymphoma Malignant Lymphocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6926

TRT#: 13

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|------------------------|---|----------------------------------|-------------------|
| Harderian Gland | | Adenoma | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: HEPATOCLR ADEN | TGLs = 3,4,5-7+8 | | |
| Note: HEPATOCLR CARC | TGLs = 3,4,5,6-7+8+9 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | [Hematopoietic Cell Proliferation TGLS = 1-1] | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA | TGLs = 2-4+6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6927

TRT#: 13

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-----------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Hepatocellular Adenoma TGLS = 3,4,5,6-7+8+9+10] | | | |
| [Hepatocellular Carcinoma TGLS = 3,4,5-9] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 2-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-4 | | | |
| Ovary | Follicle | Cyst | |
| | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6928

TRT#: 13

SEX: Female

DAY ON TEST: 703

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney | Lung | Lymph Node |
| Nose | Ovary | Pancreas | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|--------------------|---------------|-------------------|--------|
| Islets, Pancreatic | Mammary Gland | Parathyroid Gland | Thymus |
|--------------------|---------------|-------------------|--------|

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6929

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|---------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Tissue NOS | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|------------------------|---|------------------------|----------|
| Liver | | Cytomegaly | Mild |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Hepatocyte | Necrosis | Minimal |
| | [Eosinophilic Focus TGLS = 1,2,3,4-1+7+8] | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6930

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pancreas
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Spleen
Trachea

OBSERVATIONS

Bone Marrow
Liver

Sternal

Myelofibrosis
Cytomegaly
Eosinophilic Focus
Fatty Change
Hepatocellular Adenoma

Minimal
Moderate
Moderate
Minimal
Multiple

[Hepatocellular Adenoma TGLS = 1,2,3,4,5,6-7+8+9+10]

Lymph Node
Note: MAND L N: NORMAL

Pituitary Gland
Skin

Pars Distalis

Hyperplasia
Acanthosis
Hyperkeratosis
Parasite Metazoan

Nodular, Mild
Minimal
Minimal

Stomach
Note: [HYPERPLASIA] TGLs = 7-11

Forestomach

Hyperplasia

Mild

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6931

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------|---|----------------------------------|------------------|
| Ear | Middle Ear | Abscess | Marked |
| | Middle Ear | Bacterium | |
| Note: BACTERIUM | TGLs = 6-10 | | |
| Note: ABSCESS | TGLs = 6-10 | | |
| Heart | Coron Artery | Inflammation | Chronic, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 3,4,5-1+7+8] | | |
| | [Hepatocellular Carcinoma TGLS = 3,4,5-7] | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| Note: ECTASIA | TGLs = 2-9 | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6931

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851711

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 1-1]

Stomach

Forestomach

Cyst Epithelial Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6932

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|-----------------|---|----------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | [Hepatocellular Adenoma TGLS = 3,4,5-8] | | |
| | [Hepatocellular Carcinoma TGLS = 3,4,6-9] | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Note: ECTASIA TGLs = 1-7 | | |
| | Note: MAND L N: NORMAL | | |
| | Note: HEMA CELL PROL TGLs = 1-7 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Minimal |
| | Note: HYPERPLASIA TGLs = 2-9 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6932

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851712

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6933

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|-------------------|------------------------|-----------------|
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL NODULES SEEN AT NECROPSY | | | |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 4,5,6-1+8+9] | | | |
| Lymph Node | Mandibular, Sinus | Ectasia | Mild |
| | Mesenteric, Sinus | Ectasia | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1,2-7+10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6934

TRT#: 13

SEX: Female

DAY ON TEST: 638

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--|---------------|------------------------|-------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Minimal |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: [HEPATOCLR ADEN] TGLs = 3,4-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1,2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6935

TRT#: 13

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|---|--------------|------------------------|--------------------------|
| Intestine Small Note: INFLAMMATION TGLs = 3-11 | Jejunum | Inflammation | Chronic Active, Moderate |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| [Hepatocellular Adenoma TGLS = 4,5,6-1+8+9] | | | |
| Lung | Interstitial | Inflammation | Chronic, Minimal |
| Lymph Node Note: MAND L N: NORMAL | Mesenteric | Inflammation | Granulomatous, Marked |
| Note: INFLAMMATION TGLs = 2-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen Note: GRANULOMA TGLs = 1-7 | | Granuloma | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6936

TRT#: 13

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|------------------------------|----------------------|---------------------------|------------------|
| Adrenal Gland | Cortex, Zona Reticul | Vacuolization Cytoplasmic | Moderate |
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| | Sternal | Myelofibrosis | Minimal |
| Brain | Hypothalamus | Compression | |
| Intestine Small | Duodenum | Adenoma | |
| Liver | | Cytomegaly | Mild |
| [Cytomegaly TGLS = 2,3-1] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 4-7 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Marked |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6937

TRT#: 13

SEX: Female

DAY ON TEST: 692

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | |

AUTO PRECLUDES DIAG.

| | |
|-------------|-------------------------|
| Gallbladder | Intestine Small - Ileum |
|-------------|-------------------------|

OBSERVATIONS

| | | | |
|---------------|---------|--------------------------------|----------|
| Adrenal Gland | Capsule | Lymphoma Malignant Lymphocytic | |
| | Cortex | Lymphoma Malignant Lymphocytic | |
| Heart | | Lymphoma Malignant Lymphocytic | |
| Kidney | | Lymphoma Malignant Lymphocytic | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Lymphoma Malignant Lymphocytic | |

Note: LYMPHOCYTIC LYMPHOSARCOMA, MULTIPLE ORGANS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

[Cytomegaly TGLS = 2,3,4-1+8+9]

[Hepatocellular Adenoma TGLS = 2,3,4-1+8+9]

| | | | |
|-----------------|---------------|--------------------------------|---------|
| Lung | | Lymphoma Malignant Lymphocytic | |
| Lymph Node | Mandibular | Lymphoma Malignant Lymphocytic | |
| | Mesenteric | Lymphoma Malignant Lymphocytic | |
| | Pancreatic | Lymphoma Malignant Lymphocytic | |
| Mammary Gland | | Lymphoma Malignant Lymphocytic | |
| Ovary | | Lymphoma Malignant Lymphocytic | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6937

TRT#: 13

SEX: Female

DAY ON TEST: 692

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851717

ORGAN AND ACCOUNTABLE SITE STATUS

Subcut Tiss

Lymphoma Malignant Lymphocytic

Parasite Metazoan

Spleen

Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 1-7

Thymus

Lymphoma Malignant Lymphocytic

Urinary Bladder

Lymphoma Malignant Lymphocytic

Uterus

Lymphoma Malignant Lymphocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6938

TRT#: 13

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|---------------|------------------------|------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: CLEAR CL FOCUS TGLs = 9-11 | | | |
| Note: EOSIN FOCUS TGLs = 8,10-9+10 | | | |
| Note: HEPATOCLR ADEN TGLs = 3,4,5,6,7-11+12 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECROPSY | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | | Hemangioma | |
| | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6938

TRT#: 13

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851718

ORGAN AND ACCOUNTABLE SITE STATUS

Thrombosis

Note: THROMBUS TGLs = 1-8

Note: HEMANGIOMA TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6939

TRT#: 13

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|----------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Hepatocellular Adenoma TGLS = 1,2,4-1+8] | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 5-10 | | | |
| Note: NO CORRESP LESION FOR ENLARGED, PALE MANDIBULAR LYMPH | | | |
| Note: NODE SEEN AT NECROPSY | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6940

TRT#: 13

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-------------|------------------------|-------------------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Blood Vessel | Aorta | Inflammation | Chronic Active, Minimal |
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: [HEPATOCLR ADEN] TGLs = 2,3,4-1+8+9 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO COORESP LESION FOR SPLENIC ENLARGEMENT SEEN AT NECR | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6941

TRT#: 13

SEX: Female

DAY ON TEST: 701

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-----------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Rectum |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | | | |
|-------------------------|-------------------------|-------------------------|---------------|
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum | Mammary Gland |
| Thymus | | | |

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|---|---------------|--------------------------|----------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| Note: C O DEATH: CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY; PITUITARY ADENOMA | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-8+9] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 4-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hemangiosarcoma | |
| Spleen | | | |
| Note: HEMANGIOSARC TGLs = 5-7 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6941

TRT#: 13

SEX: Female

DAY ON TEST: 701

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851721

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6942

TRT#: 13

SEX: Female

DAY ON TEST: 621

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Esophagus

Heart

Intestine Large - Cecum

Intestine Small - Duodenum

Intestine Small - Ileum

Kidney

Lung

Lymph Node

Mammary Gland

Nose

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Islets, Pancreatic

Thymus

AUTO PRECLUDES DIAG.

Gallbladder

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Jejunum

OBSERVATIONS

Liver

Cytomegaly

Moderate

Fatty Change

Minimal

Hepatocellular Carcinoma

Single

Note: HEPATOCLR CARC TGLs = 1,2,3-7

Note: C O DEATH: HEPATOCELLULAR CARCINOMA; TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

Uterus

Inflammation

Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6943

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------------|------------------------|--------------------------|-----------------|
| Bone Marrow | Femoral | Myelofibrosis | Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN | TGLs = 3,4,5,6,7-1+7+9 | | |
| Note: HEPATOCLR CARC | TGLs = 3,4,8-8 | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST | TGLs = 1-6 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Stomach | Forestomach | Ulcer | Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Note: HYPERPLASIA | TGLs = 2-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6944

TRT#: 13

SEX: Female

DAY ON TEST: 718

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Pancreas
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Stomach - Forestomach
Trachea

MISSING

Gallbladder

OBSERVATIONS

Liver

Cytomegaly
Eosinophilic Focus
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma

Moderate
Mild
Minimal
Multiple
Multiple

Note: HEPATOCLR ADEN TGLs = 2,3,4-9+10

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 2,3,4-9+11

Lymph Node

Note: MAND L N: NORMAL

Pituitary Gland

Pars Distalis

Skin

Hyperplasia
Acanthosis
Hyperkeratosis
Inflammation
Parasite Metazoan

Nodular, Mild
Minimal
Minimal
Necrotizing, Moderate

[Parasite Metazoan TGLs = 1-7]

Spleen

Note: HEMA CELL PROL TGLs = 5-8

Hematopoietic Cell Proliferation

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6944

TRT#: 13

SEX: Female

DAY ON TEST: 718

DOSE: 10 PPM 3-3

DISP: Moribund Sacrifice

HISTO: 851724

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6945

TRT#: 13

SEX: Female

DAY ON TEST: 563

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|----------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | |
|--------------------------|--------------------|---------------|
| Intestine Large - Rectum | Islets, Pancreatic | Mammary Gland |
|--------------------------|--------------------|---------------|

AUTO PRECLUDES DIAG.

| | | |
|-------------|-------------------------|---------------------------|
| Gallbladder | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------|-------------------------|---------------------------|

OBSERVATIONS

Intest Large

Note: TWO SECTIONS OF COLON, BUT NO RECTUM SECTION, PRESENT

Note: ON SLIDE #4

Liver

| | |
|--------------------------|----------|
| Cytomegaly | Moderate |
| Eosinophilic Focus | Mild |
| Fatty Change | Minimal |
| Hepatocellular Adenoma | Multiple |
| Hepatocellular Carcinoma | Single |

Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 1,2,3-7+8

Lymph Node

Note: MAND L N: NORMAL

Ovary

Luteoma

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Note: HYPERPLASIA TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6946

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Mammary Gland | Nose | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|--|----------------|--------------------------|--------------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1+7 [Hepatocellular Adenoma TGLS = 1,2-1] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 5-6 | | | |
| Pancreas | Artery | Inflammation | Chronic, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 4-6 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6946

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851726

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6947

TRT#: 13

SEX: Female

DAY ON TEST: 624

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--------|-----------|--------------------------|----------|
| Kidney | | Lymphoma Malignant Mixed | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Lymphoma Malignant Mixed | |

Note: LYMPH MAL MIXD TGLs = 2-1

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Note: LYMPHOSARCOMA, MIXED TYPE, MULTIPLE ORGANS

Note: HEPATOCLR ADEN TGLs = 2,3-1

| | | | |
|------------|------------|--------------------------|--|
| Lymph Node | Lumbar | Lymphoma Malignant Mixed | |
| | Mesenteric | Lymphoma Malignant Mixed | |
| | Renal | Lymphoma Malignant Mixed | |

Note: MAND L N: NORMAL

Note: LYMPH MAL MIXD TGLs = 1-6

Note: LYMPH MAL MIXD TGLs = 4-7

| | | | |
|--------|--|--------------------------|---------|
| Skin | | Acanthosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Lymphoma Malignant Mixed | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6947

TRT#: 13

SEX: Female

DAY ON TEST: 624

DOSE: 10 PPM 3-3

DISP: Natural Death

HISTO: 851727

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6948

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|-----------------|--------|
| Salivary Glands | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------|
| Bone Marrow | Femoral | Hemangiosarcoma | |
| Liver | Bile Duct | Cyst | Mild |
| | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 3,4,5-1+8+9 | | | |
| Note: HEMANGIOSARC TGLs = 3,4,5-1+8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 2-10 | | | |
| Note: ECTASIA TGLs = 2-10 | | | |
| Note: MAND L N: MISSING | | | |
| Note: HEMA CELL PROL TGLs = 2-10 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hemangiosarcoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6948

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851728

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMANGIOSARC TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6949

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------------|------------------------|-------------------|
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 3,4,5-1+7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hyperplasia | Lymphoid, Minimal |
| Note: ECTASIA TGLs = 1-8 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 1-8 | | | |
| Ovary | | Luteoma | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6950

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Liver

Femoral

Myelofibrosis
Clear Cell Focus
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia

Minimal

Moderate
Minimal
Multiple
Single
Minimal

Bile Duct

Note: CLEAR CL FOCUS TGLs = 9-7
Note: CYTOMEGALY TGLs = 10-8
Note: HEPATOCLR ADEN TGLs = 4,5,6,8-9
[Hepatocellular Carcinoma TGLS = 4,5,7-9]

Lymph Node

Mesenteric
Mesenteric

Hematopoietic Cell Proliferation
Infiltration Cellular

Minimal
Histiocyte, Mild

Note: HEMA CELL PROL TGLs = 11-10
Note: INFILTRAT CELL TGLs = 11-10
Note: MAND L N: NORMAL

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 1,2-6

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6950

TRT#: 13

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 3-3

DISP: Terminal Sacrifice

HISTO: 851730

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6951

TRT#: 14

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|------------------------|-------------------------|----------------------------------|------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN | TGLs = 5,6,7-8+9+10 | | |
| Note: HEPATOCLR CARC | TGLs = 5,6,7-10 | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL | TGLs = 4-11 | | |
| Note: MAND L N: NORMAL | | | |
| | [Ectasia TGLS = 4-11] | | |
| Ovary | Follicle | Cyst | |
| Note: CYST | TGLs = 1-6 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 2-6 | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hematopoietic Cell Proliferation | Minimal |
| Spleen | | | |
| Note: HEMA CELL PROL | TGLs = 3-7 | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6951

TRT#: 14

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851741

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6952

TRT#: 14

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Ovary | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|---------------|----------------------------------|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2-1+8 [Hepatocellular Adenoma TGLS = 1,2-7] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| Note: HYPERPLASIA TGLs = 3-9 Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Minimal |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6952

TRT#: 14

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851742

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6953

TRT#: 14

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|---|----------------|----------------------------------|---------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Thrombosis | |
| [Hepatocellular Adenoma TGLS = 2,3,4-8+9+10+11] | | | |
| [Thrombosis TGLS = 2,3,4-8+9+10+11] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 5-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |
| Thyroid Gland | Follicular Cel | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6954

TRT#: 14

SEX: Female

DAY ON TEST: 656

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-----------------------|
| Kidney | Renal Tubule | Casts Protein | Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-9+10 | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY; | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 4-8 | | | |
| Note: ECTASIA TGLs = 4-8 | | | |
| Pancreas | | Hemorrhage | Moderate |
| | Artery | Inflammation | Chronic, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6954

TRT#: 14

SEX: Female

DAY ON TEST: 656

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851744

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6955

TRT#: 14

SEX: Female

DAY ON TEST: 667

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---|------------|---|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOPATHY; LYMPH MALIG UNDIFF | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; TOXIC | | | |
| Note: HEPATOCLR CARC TGLs = 2,3-1 | | | |
| [Hepatocellular Carcinoma TGLS = 2,3-1] | | | |
| Lymph Node | Mesenteric | Lymphoma Malignant Undifferentiated Cell Type | |
| Note: MAND L N: NORMAL | | | |
| Note: LYMPH MAL UNDF TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thymus | | Lymphoma Malignant Undifferentiated Cell Type | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6956

TRT#: 14

SEX: Female

DAY ON TEST: 645

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | |
|--|----------------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | |
| Note: TOXIC HEPATOPATHY | | |
| [Hepatocellular Adenoma TGLS = 1,2-1] | | |
| [Hepatocellular Carcinoma TGLS = 1,2-1] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| Spleen | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6957

TRT#: 14

SEX: Female

DAY ON TEST: 692

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|----------------------|
| Clitoral Gland | | Carcinoma | |
| Note: CARCINOMA | TGLs = 1-7 | | |
| Intestine Large | Cecum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN | TGLs = 2,3,4-9+10 | | |
| Note: HEPATOCLR CARC | TGLs = 2,3,4-10 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: HYPERKERATOSIS | TGLs = 6-2+11 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|--------------------------|----------------------------|-------------------------|
| ANIMAL ID: 6957 | TRT#: 14 | SEX: Female | DAY ON TEST: 692 |
| | DOSE: 10 PPM 10-3 | DISP: Natural Death | HISTO: 851747 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|---------------|----------------------------------|-----------------|
| Note: ACANTHOSIS | TGLs = 6-2+11 | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL | TGLs = 5-8 | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6958

TRT#: 14

SEX: Female

DAY ON TEST: 692

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Lymph Node | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|--------------------|---------------|----------|--------|
| Islets, Pancreatic | Mammary Gland | Pancreas | Thymus |
|--------------------|---------------|----------|--------|

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|---|-----------|--------------------------|--------------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Metaplasia | Osseous, Minimal |
| | | Nephropathy | Chronic, Minimal |
| | | Cytomegaly | Moderate |
| Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-8+10 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 2,3,4-8+9 | | | |
| Lung | Lymphatic | Infiltration Cellular | Polymorphnuclr, Moderate |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Urin Bladder | | | |
| Note: NO CORRESP LESION FOR ENLARGEMENT OF UR BLADD NOTED AT NECR | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6958

TRT#: 14

SEX: Female

DAY ON TEST: 692

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851748

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6959

TRT#: 14

SEX: Female

DAY ON TEST: 729

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|----------|
| Intestine Small | Jejunum | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 1-8 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 4,5-10+11+12 | | | |
| [Hepatocellular Carcinoma TGLS = 4,5,6-9+11+12] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 3-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECR | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6960

TRT#: 14

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-------------------------|
| Bone Marrow | Femoral | Myelofibrosis | Minimal |
| Intestine Large | Rectum | Parasite Metazoan | |
| Kidney | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-8+9+10 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 5-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 5-7 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6960

TRT#: 14

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6961

TRT#: 14

SEX: Female

DAY ON TEST: 435

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|---------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|-------------------------|---------------|
| Intestine Small - Ileum | Mammary Gland |
|-------------------------|---------------|

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|-------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| Liver | | Basophilic Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |

Note: TOXIC HEPATOPATHY

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 1-7

[Thrombosis TGLS = 1-1]

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6962

TRT#: 14

SEX: Female

DAY ON TEST: 617

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|--------------------|---------------|
| Islets, Pancreatic | Mammary Gland |
|--------------------|---------------|

OBSERVATIONS

| | | |
|---|--------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Eosinophilic Focus | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| Note: TOXIC HEPATOPATHY | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | |
| Note: HEPATOCLR CARC TGLs = 1,2-1 | | |
| [Hepatocellular Adenoma TGLs = 1,2-1] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6963

TRT#: 14

SEX: Female

DAY ON TEST: 706

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney | Lung | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|-------------|--------------------|---------------|-----------------|
| Gallbladder | Islets, Pancreatic | Mammary Gland | Pituitary Gland |
|-------------|--------------------|---------------|-----------------|

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| [Hepatocellular Adenoma TGLS = 2-1+7] | | | |
| [Hepatocellular Carcinoma TGLS = 2-7] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 3-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 1-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6964

TRT#: 14

SEX: Female

DAY ON TEST: 684

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |
| Uterus | | | |

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-9+10 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-10 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 5-7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| | | Hematopoietic Cell Proliferation | Mild |
| Spleen | | | |
| Note: HEMA CELL PROL TGLs = 4-8 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6964

TRT#: 14

SEX: Female

DAY ON TEST: 684

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851754

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6965

TRT#: 14

SEX: Female

DAY ON TEST: 676

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Kidney | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | |
|--------------------|----------|--------|
| Islets, Pancreatic | Pancreas | Thymus |
|--------------------|----------|--------|

AUTO PRECLUDES DIAG.

| | |
|-------------------------|---------------------------|
| Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|---------------------------|

OBSERVATIONS

| | | |
|--|--------------------------|------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| Note: TOXIC HEPATOPATHY | | |
| Note: HEPATOCLR ADEN TGLs = 2,3-7 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMAS; | | |
| Note: HEPATOCLR CARC TGLs = 2,3-7 | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| | Hemangiosarcoma | |
| Spleen | | |
| [Hemangiosarcoma TGLS = 1-1] | | |
| Thyroid Gland | Follicle | Nodular, Minimal |
| | Hyperplasia | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6966

TRT#: 14

SEX: Female

DAY ON TEST: 717

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Kidney
Nose
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Lung
Ovary
Spleen
Trachea

Bone
Heart
Intestine Small - Duodenum
Lymph Node
Pancreas
Stomach - Forestomach
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular

MISSING

Gallbladder
Thymus

Intestine Small - Ileum

Islets, Pancreatic

Pituitary Gland

AUTO PRECLUDES DIAG.

Urinary Bladder

OBSERVATIONS

Liver

Hepatocyte

Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis
Necrosis

Moderate
Minimal
Multiple
Multiple
Minimal
Coagulative, Moderate

Note: HEPATOCLR CARC TGLs = 1,2,3-7+8

Note: TOXIC HEPATOPATHY

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6967

TRT#: 14

SEX: Female

DAY ON TEST: 688

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|----------------------------|---------------|-----------------|--------|
| Intestine Small - Duodenum | Mammary Gland | Pituitary Gland | Thymus |
|----------------------------|---------------|-----------------|--------|

OBSERVATIONS

| | | |
|---|----------------------------------|----------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Minimal |
| | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8+9+10 | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-8+9+10 | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | |
| Note: TOXIC HEPATOPATHY | | |
| Lung | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Spleen | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-7 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6968

TRT#: 14

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|-------------|------------------------|--------------|
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| [Hepatocellular Adenoma TGLS = 1,2,3,4-7+8] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6969

TRT#: 14

SEX: Female

DAY ON TEST: 730

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|----------------|----------------------------------|--------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| [Hepatocellular Adenoma TGLS = 2,3,4-1] | | | |
| [Necrosis TGLS = 2,3,4-1] | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Alveolar Epith | Hyperplasia | Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6970

TRT#: 14

SEX: Female

DAY ON TEST: 555

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | |
|------------|-----------------|--------|
| Lymph Node | Salivary Glands | Thymus |
|------------|-----------------|--------|

OBSERVATIONS

| | | |
|-------|--------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Single |
| | Hepatocellular Carcinoma | Single |

Note: TOXIC HEPATOPATHY

Note: C O MORB: HEPATOCELLULAR ADENOMA, CARCINOMA

[Hepatocellular Adenoma TGLS = 1,2-1]

[Hepatocellular Carcinoma TGLS = 1,2-1]

Lymph Node

Note: MAND L N: MISSING

| | | |
|------|----------------|---------|
| Skin | Hyperkeratosis | Minimal |
|------|----------------|---------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6971

TRT#: 14

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|-----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |
| Note: HEPATOCLR ADEN TGLs = 3,4,6,7-7+9 | | | |
| Note: HEPATOCLR CARC TGLs = 3,4,5,6-9 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 1-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| [Hematopoietic Cell Proliferation TGLS = 2-1] | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6972

TRT#: 14

SEX: Female

DAY ON TEST: 697

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 821762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--|----------|--|---|
| Adrenal Gland | Medulla | Hyperplasia | Minimal |
| Gallbladder | | | |
| Note: GALLBLADDER ABSENT BUT COMM BILE DUCT PRESENT AND NORMAL | | | |
| Liver | | Cytomegaly Fatty Change Hepatocellular Adenoma Hepatocellular Carcinoma Necrosis | Moderate Mild Multiple Multiple Coagulative, Mild |
| Note: HEPATOCLR ADEN TGLs = 1,2-7+8 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7+8 | | | |
| Note: BRONCHIOLO-ALVEOLAR CARCINOMA; TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Lung | | Alveolar/Bronchiolar Carcinoma Hepatocellular Carcinoma Infiltration Cellular | Single Metastatic (Uncertain Primary Site) Histiocyte, Moderate |
| | Alveolus | | |
| Note: ALV BRON CARC TGLs = 3-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis Hyperkeratosis | Minimal Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6972

TRT#: 14

SEX: Female

DAY ON TEST: 697

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 821762

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------|-------------|----------------------------------|----------|
| Spleen | | Parasite Metazoan | |
| Stomach | Forestomach | Hematopoietic Cell Proliferation | Moderate |
| | | Cyst Epithelial Inclusion | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6973

TRT#: 14

SEX: Female

DAY ON TEST: 617

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|-------------------------|---------------|-------|-------------------|
| Intestine Small - Ileum | Mammary Gland | Ovary | Parathyroid Gland |
| Thymus | | | |

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

INSUFFICIENT TISSUE

Islets, Pancreatic

OBSERVATIONS

| | | |
|---|--------------------------|----------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-7 | | |
| Note: TOXIC HEPATOPATHY | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6974

TRT#: 14

SEX: Female

DAY ON TEST: 703

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Mammary Gland |
| Nose | Ovary | Pancreas | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------------|--------|
| Parathyroid Gland | Thymus |
|-------------------|--------|

OBSERVATIONS

| | | | |
|--------------------------------------|---------------|----------------------------------|----------|
| Kidney | | Histiocytic Sarcoma | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 2,3,4-8 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3,4-8 | | | |
| Lung | | Histiocytic Sarcoma | |
| Lymph Node | Mediastinal | Histiocytic Sarcoma | |
| | Mesenteric | Histiocytic Sarcoma | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: ACANTHOSIS TGLs = 5-9 | | | |
| Note: PARASITE META TGLs = 5-9 | | | |
| Note: HYPERKERATOSIS TGLs = 5-9 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| Uterus | | Histiocytic Sarcoma | |
| Note: ADENOMAS; TOXIC HEPATOPATHY | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6974

TRT#: 14

SEX: Female

DAY ON TEST: 703

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851764

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HISTIO SARC] TGLs = 1-7

Note: C O MORB: HISTIOCYTIC SARC; HEPATOCELLULAR

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6975

TRT#: 14

SEX: Female

DAY ON TEST: 680

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|-------------|---------------|--|--|
| Gallbladder | Mammary Gland | | |
|-------------|---------------|--|--|

OBSERVATIONS

| | | |
|-------|--------------------------|----------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| | Necrosis | Coagulative, Minimal |

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1,2-7

Note: HEPATOCLR CARC TGLs = 1,2-7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Lymph Node

Note: MAND L N: NORMAL

Skin

| | |
|-------------------|------------------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |
| Hyperplasia | Nodular, Minimal |

| | |
|---------------|----------|
| Thyroid Gland | Follicle |
|---------------|----------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6976

TRT#: 14

SEX: Female

DAY ON TEST: 725

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|---------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------|--------------------------|-------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Intestine Large | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; Note: TOXIC HEPATOPATHY Note: HEPATOCLR CARC TGLs = 1,2,3-7 Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8 | | | |
| Lung | Vein | Thrombosis | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6976

TRT#: 14

SEX: Female

DAY ON TEST: 725

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851766

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6977

TRT#: 14

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|-------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| [Hepatocellular Adenoma TGLS = 2,3-7] | | | |
| [Necrosis TGLS = 2,3,4,5,6-1+7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 1-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6978

TRT#: 14

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Liver | | Angiectasis | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR CARC TGLs = 3,4,5,6-1+7+8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 1-9 | | | |
| Note: HEMA CELL PROL TGLs = 1-9 | | | |
| Ovary | Periovarn Tiss | Cyst | |
| | Rete Ovarii | Cyst | |
| | | Mineralization | Mild |
| Note: MINERALIZATION TGLs = 2-6 | | | |
| Note: CYST TGLs = 2-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6978

TRT#: 14

SEX: Female

DAY ON TEST: 731

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851768

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Follicle

Hyperplasia

Nodular, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6979

TRT#: 14

SEX: Female

DAY ON TEST: 651

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney | Lymph Node | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|--------------------|---------------|
| Islets, Pancreatic | Mammary Gland |
|--------------------|---------------|

OBSERVATIONS

| | | | |
|---|---------------|------------------------------|-------------------|
| Bone Marrow | Sternal | Myelofibrosis | Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Nodular, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Note: HYPERKERATOSIS TGLs = 4-7 | | | |
| Note: PARASITE META TGLs = 4-7 | | | |
| Note: ACANTHOSIS TGLs = 4-7 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6979

TRT#: 14

SEX: Female

DAY ON TEST: 651

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851769

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6980

TRT#: 14

SEX: Female

DAY ON TEST: 546

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Ovary | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

OBSERVATIONS

| | | | |
|--|---------|--------------------------------|----------|
| Gallbladder | | Lymphoma Malignant Lymphocytic | |
| Intestine Small | Jejunum | Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 3-7 | | | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: LYMPH MALIG LYMPHOCYTIC; TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| [Hepatocellular Adenoma TGLS = 1,2-1] | | | |
| [Hepatocellular Carcinoma TGLS = 1,2-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | | Lymphoma Malignant Lymphocytic | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6980

TRT#: 14

SEX: Female

DAY ON TEST: 546

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851770

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6981

TRT#: 14

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---|------------|--------------------------|-------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: [HEPATOCLR CARC] TGLs = 3,4-1+8 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Marked |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 1-9 | | | |
| Pancreas | Duct | Ectasia | Marked |
| | Artery | Inflammation | Chronic, Mild |
| Note: ECTASIA TGLs = 2-7 | | | |
| Note: INFLAMMATION TGLs = 2-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6982

TRT#: 14

SEX: Female

DAY ON TEST: 636

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | | |
|------------|---------------|-----------------|
| Lymph Node | Mammary Gland | Salivary Glands |
|------------|---------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2-1

Note: TOXIC HEPATOPATHY

[Hepatocellular Adenoma TGLS = 1,2-1]

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis Minimal

Hyperkeratosis Minimal

Parasite Metazoan

Spleen

Hematopoietic Cell Proliferation Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6983

TRT#: 14

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|---|----------------------------------|----------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| | [Hepatocellular Adenoma TGLS = 3,4,5-1+8] | | |
| | [Hepatocellular Carcinoma TGLS = 3,4,5-8] | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: ECTASIA TGLs = 2-9 | | | |
| Note: HEMA CELL PROL TGLs = 2-9 | | | |
| Pancreas | Artery | Inflammation | Chronic, Mild |
| Note: INFLAMMATION TGLs = 2-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Infiltration Cellular | Mast Cell, Mild |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6983

TRT#: 14

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851773

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Bilateral, Follicular Cel

Adenoma

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6984

TRT#: 14

SEX: Female

DAY ON TEST: 554

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | |
|--|------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Eosinophilic Focus | Mild |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hyperplasia | Minimal |
| | Bile Duct | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 1,2-1] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6985

TRT#: 14

SEX: Female

DAY ON TEST: 651

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Islets, Pancreatic | Kidney |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|---------------|--------|--|--|
| Mammary Gland | Thymus | | |
|---------------|--------|--|--|

AUTO PRECLUDES DIAG.

| | | | |
|-------------|----------------------------|-------------------------|---------------------------|
| Gallbladder | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------|----------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------|--|------------------------|-------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Mild |

Note: TOXIC HEPATOPATHY; PULMONARY THROMBI

Note: C O DEATH: HEPATOCELLULAR ADENOMAS

Note: HEPATOCLR ADEN TGLs = 2,3,5-1

| | | | |
|------|--------|------------|--|
| Lung | Artery | Thrombosis | |
|------|--------|------------|--|

| | | | |
|------------------------|--|--|--|
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |

| | | | |
|-------|----------|------|--|
| Ovary | Follicle | Cyst | |
|-------|----------|------|--|

Note: CYST TGLs = 1-7

| | | | |
|------|--|----------------|---------|
| Skin | | Hyperkeratosis | Minimal |
|------|--|----------------|---------|

| | | | |
|--|--|-------------------|--|
| | | Parasite Metazoan | |
|--|--|-------------------|--|

| | | | |
|--------|--|----------------------------------|------|
| Spleen | | Hematopoietic Cell Proliferation | Mild |
|--------|--|----------------------------------|------|

| | | | |
|---------------|----------|-------------|------------------|
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
|---------------|----------|-------------|------------------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6986

TRT#: 14

SEX: Female

DAY ON TEST: 703

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | |
|---|----------------------------------|-----------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| | Necrosis | Coagulative, Moderate |
| | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8 | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-8+9 | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | |
| Note: TOXIC HEPATOPATHY | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Spleen | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-7 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6987

TRT#: 14

SEX: Female

DAY ON TEST: 648

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Nose | Parathyroid Gland |
| Pituitary Gland | Stomach - Forestomach | Stomach - Glandular | Trachea |

MISSING

| | | | |
|-------------------------|---------------|-----------------|--------|
| Adrenal Gland - Medulla | Mammary Gland | Salivary Glands | Thymus |
|-------------------------|---------------|-----------------|--------|

OBSERVATIONS

| | | | |
|-----------------|------------|--------------------------------|-------------------------|
| Adrenal Gland | Cortex | Lymphoma Malignant Lymphocytic | |
| Gallbladder | | Hemorrhage | Moderate |
| Heart | | Lymphoma Malignant Lymphocytic | |
| Intestine Large | Cecum | Lymphoma Malignant Lymphocytic | |
| Kidney | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Lymphoma Malignant Lymphocytic | |
| | | Necrosis | Coagulative, Mild |

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY; LYMPHOCYTIC LYMPHOMA

Note: GLOMERULONEPHRITIS

[Hepatocellular Adenoma TGLS = 4,5-1]

[Hepatocellular Carcinoma TGLS = 4,5-1]

| | | | |
|------------|------------|--------------------------------|--|
| Lung | | Lymphoma Malignant Lymphocytic | |
| Lymph Node | Mesenteric | Lymphoma Malignant Lymphocytic | |

Note: MAND L N: MISSING

Note: LYMPH MAL LYMP TGLs = 2,3-4+7

| | | | |
|-----------|--|--------------------------------|--|
| Mesentery | | Lymphoma Malignant Lymphocytic | |
| Ovary | | Lymphoma Malignant Lymphocytic | |
| Pancreas | | Lymphoma Malignant Lymphocytic | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

| | | | |
|------------------------|---|---|---|
| ANIMAL ID: 6987 | TRT#: 14 DOSE: 10 PPM 10-3 | SEX: Female DISP: Moribund Sacrifice | DAY ON TEST: 648 HISTO: 851777 |
|------------------------|---|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|--|-------------------------------------|--|--------------------|
| Skeletal Muscle | Abdominal Hindlimb Mandibular | Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic | |
| Skin | | Acanthosis Hyperkeratosis | Minimal Minimal |
| Spleen | Subcut Tiss | Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic | |
| Note: LYMPH MAL LYMP TGLs = 1-1 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Urinary Bladder | | Lymphoma Malignant Lymphocytic | |
| Uterus | Endometrium | Hyperplasia Lymphoma Malignant Lymphocytic | Cystic, Minimal |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6988

TRT#: 14

SEX: Female

DAY ON TEST: 509

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Nose | Ovary | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--|-------------------|--|---|
| Liver | | Basophilic Focus Cytomegaly Hepatocellular Carcinoma Necrosis | Moderate Single Coagulative, Moderate |
| Note: C O MORB: HEPATOCELLULAR CARCINOMA; Note: TOXIC HEPATOPATHY. Note: [HEPATOCLR CARC] TGLs = 3,4.5.6-1+7 | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 1,2-4 Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Minimal |
| Skin | | Acanthosis Hyperkeratosis Parasite Metazoan | Minimal Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6989

TRT#: 14

SEX: Female

DAY ON TEST: 611

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Minimal |

Note: HEPATOCLR ADEN TGLs = 1,2,3-1

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

[Hepatocellular Adenoma TGLS = 1,2,3-1]

Lymph Node

Note: MAND L N: NORMAL

Skin

| | |
|-------------------|---------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6990

TRT#: 14

SEX: Female

DAY ON TEST: 732

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

MISSING

Uterus

OBSERVATIONS

| | | | |
|--|-------------------|--------------------------|-----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 2,3,4,6,7-1+8+9 [Hepatocellular Adenoma TGLS = 2,3,5,8-8+9] | | | |
| Lung | Artery | Thrombosis | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: MAND L N: NORMAL Note: ECTASIA TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6991

TRT#: 14

SEX: Female

DAY ON TEST: 610

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | |
|--|------------------------|----------------------|
| Kidney | Nephropathy | Chronic, Moderate |
| Liver | Cytomegaly | Moderate |
| | Hepatocellular Adenoma | Multiple |
| | Necrosis | Coagulative, Minimal |
| Note: GLOMERULONEPHRITIS | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-7 | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6992

TRT#: 14

SEX: Female

DAY ON TEST: 725

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | |
|--|--------------------------|-------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Mild |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7 | | |
| Note: TOXIC HEPATOPATHY | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Stomach | Squamous Cell Papilloma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6993

TRT#: 14

SEX: Female

DAY ON TEST: 717

DOSE: 10 PPM 10-3

DISP: Moribund Sacrifice

HISTO: 851783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|-------------------|--------------------------|-----------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Moderate |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-9 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-9 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 5-2+8 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 4-4+7 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6994

TRT#: 14

SEX: Female

DAY ON TEST: 627

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Kidney | Lung |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|------------|--------------------------|----------------------|
| Harderian Gland | | Hyperplasia | Nodular, Minimal |
| Islets, Pancreatic | | Adenoma | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Hepatocyte | Necrosis | Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-7 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Plasma Cell, Minimal |
| | Mesenteric | Hyperplasia | Lymphoid, Minimal |
| Note: MAND L N: NORMAL | | | |
| Note: HYPERPLASIA TGLs = 3-8 | | | |
| Note: HYPERPLASIA TGLs = 3-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6994

TRT#: 14

SEX: Female

DAY ON TEST: 627

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851784

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6995

TRT#: 14

SEX: Female

DAY ON TEST: 531

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|-----------------|-------|--------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Moderate |

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 1,3-1

Note: MAND L N: NORMAL

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

[Hepatocellular Adenoma TGLS = 1,2,3,4-7+8]

Lymph Node

Note: MAND L N: NORMAL

Ovary

Periovarn Tiss

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6996

TRT#: 14

SEX: Female

DAY ON TEST: 733

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Pituitary Gland

OBSERVATIONS

| | | | |
|---|-------------|--------------------------|-------------------|
| Liver | | Clear Cell Focus | Mild |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Coagulative, Mild |
| [Hepatocellular Adenoma TGLS = 1,2,3,5,6-1+7+8] | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3,4-1+7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Hemangioma | |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6997

TRT#: 14

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|----------------|--------------------------|------------------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| [Cytomegaly TGLS = 2,3,5,6,7-1+7] | | | |
| [Fatty Change TGLS = 2,3,4-7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 9-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | | |
| Note: NO CORRESP LESION FOR SPLENIC ENLARGEMENT NOTED AT NECR | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 8-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6997

TRT#: 14

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851787

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6998

TRT#: 14

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--------------------------------------|-------------------|----------------------------------|-------------------|
| Liver | | Clear Cell Focus | Moderate |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 2,3-9+10 | | | |
| Note: HEPATOCLR ADEN TGLs = 2,3-8+9 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: MAND L N: MISSING | | | |
| Note: ECTASIA TGLs = 1-7 | | | |
| Note: HEMA CELL PROL TGLs = 1-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

| | | | |
|------------------------|--------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 6998 | TRT#: 14 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: 10 PPM 10-3 | DISP: Terminal Sacrifice | HISTO: 851788 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------------|----------|----------------------------------|---------------|
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 4-7 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

| | | | |
|------------------------|---|--|--|
| PRIMARY CAUSE OF DEATH | - | | |
|------------------------|---|--|--|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6999

TRT#: 14

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Mammary Gland | Nose | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|---------------------------------------|-------------------|----------------------------------|---------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Mild |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: HEPATOCLR ADEN TGLs = 5,6,7-8+9 | | | |
| Note: HEPATOCLR CARC TGLs = 5,6,7-8+9 | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 3-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Pancreas | Duct | Ectasia | Marked |
| | Artery | Inflammation | Chronic, Mild |
| | Interlobular | Inflammation | Chronic, Mild |
| Note: INFLAMMATION TGLs = 4-4+7 | | | |
| Note: ECTASIA TGLs = 4-7 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6999

TRT#: 14

SEX: Female

DAY ON TEST: 736

DOSE: 10 PPM 10-3

DISP: Terminal Sacrifice

HISTO: 851789

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 2-1

Thyroid Gland

Follicle

Hyperplasia

Nodular, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7000

TRT#: 14

SEX: Female

DAY ON TEST: 715

DOSE: 10 PPM 10-3

DISP: Natural Death

HISTO: 851790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Glandular |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|------------|---------------|--------|--|
| Lymph Node | Mammary Gland | Thymus | |
|------------|---------------|--------|--|

OBSERVATIONS

| | | | |
|-------|--------------------------|--|----------|
| Liver | Basophilic Focus | | |
| | Cytomegaly | | Moderate |
| | Fatty Change | | Minimal |
| | Hepatocellular Adenoma | | Multiple |
| | Hepatocellular Carcinoma | | Multiple |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2-1+8

Note: TOXIC HEPATOPATHY

Note: TOXIC HEPATOPATHY

[Hepatocellular Carcinoma TGLS = 1,2-1+8]

Lymph Node

Note: MAND L N: MISSING

| | | | |
|---------------|-------------|-------------------------|---------------|
| Ovary | Rete Ovarii | Cyst | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | Forestomach | Squamous Cell Papilloma | |
| | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7001

TRT#: 15

SEX: Female

DAY ON TEST: 365

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO: 851321

PRIMARY CAUSE OF DEATH

-

Animal Note: THIS MOUSE WAS COMPLETELY CANABILIZED; NO HISTO EXAM

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7002

TRT#: 15

SEX: Female

DAY ON TEST: 622

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Thymus

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Moderate |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-7+8+9 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-8+9+10 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7002

TRT#: 15

SEX: Female

DAY ON TEST: 622

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7003

TRT#: 15

SEX: Female

DAY ON TEST: 606

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Kidney | Lung | Lymph Node |
| Nose | Ovary | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | | |
|--------------------|---------------|--------|
| Islets, Pancreatic | Mammary Gland | Thymus |
|--------------------|---------------|--------|

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

| | | | |
|--------------|-----------|--------------------------|-------------------------|
| Blood Vessel | Aorta | Inflammation | Chronic Active, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Mild |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1,2-1+7

[Hepatocellular Adenoma TGLS = 1,2-7]

Lymph Node

Note: MAND L N: NORMAL

Pancreas

Artery

Inflammation

Chronic, Marked

Note: INFLAMMATION TGLs = 3-8

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7004

TRT#: 15

SEX: Female

DAY ON TEST: 561

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Kidney
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Colon
Nose
Uterus

Bone
Intestine Large - Rectum
Ovary

Bone Marrow
Intestine Small - Duodenum
Stomach - Forestomach

MISSING

Brain
Intestine Small - Ileum
Mammary Gland
Salivary Glands
Trachea

Esophagus
Islets, Pancreatic
Pancreas
Spleen

Gallbladder
Lung
Parathyroid Gland
Thymus

Heart
Lymph Node
Pituitary Gland
Thyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

Stomach - Glandular

OBSERVATIONS

Liver

Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Necrosis

Moderate
Minimal
Single
Multiple
Coagulative, Moderate

Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 1,2-1

Note: TOXIC HEPATOPATHY

[Hepatocellular Carcinoma TGLS = 1,2-1]

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis
Hyperkeratosis

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7005

TRT#: 15

SEX: Female

DAY ON TEST: 641

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lymph Node |
| Mammary Gland | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | Bile Duct | Hepatocellular Adenoma | Multiple |
| | | Hyperplasia | Mild |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Mild |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7006

TRT#: 15

SEX: Female

DAY ON TEST: 683

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|-----------------|------------|--------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | Glomerulus | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |

Note: HEPATOCLR CARC TGLs = 1,2,3-1

Note: HEPATOCLR ADEN TGLs = 1,2,3-1

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis Minimal

Hyperkeratosis Minimal

Parasite Metazoan

Spleen

Hematopoietic Cell Proliferation Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7007

TRT#: 15

SEX: Female

DAY ON TEST: 617

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|----------------------|
| Gallbladder | | | |
| Note: GALLBLADDER MISSING BUT COMMON BILE DUCT PRESENT & NORML | | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O DEATH HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7007

TRT#: 15

SEX: Female

DAY ON TEST: 617

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Follicle

Hyperplasia

Nodular, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7008

TRT#: 15

SEX: Female

DAY ON TEST: 636

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cyst | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: CYST TGLs = 3,4-9+11 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-7+8+9+10+11 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-8 | | | |
| Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thymus | | Ectopic Parathyroid Gland | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7008

TRT#: 15

SEX: Female

DAY ON TEST: 636

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7009

TRT#: 15

SEX: Female

DAY ON TEST: 678

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|-------|--------|
| Ovary | Thymus |
|-------|--------|

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|---|-----------|--------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8+9+10 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8+9+10 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7009

TRT#: 15

SEX: Female

DAY ON TEST: 678

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7010

TRT#: 15

SEX: Female

DAY ON TEST: 532

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO: 851330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | Glomerulus | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Moderate |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7011

TRT#: 15

SEX: Female

DAY ON TEST: 620

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|---------------------|-------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Small - Duodenum | Kidney | Lung |
| Lymph Node | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|--------------------------|-------------------------|---------------|--------|
| Intestine Large - Rectum | Intestine Small - Ileum | Mammary Gland | Thymus |
|--------------------------|-------------------------|---------------|--------|

AUTO PRECLUDES DIAG.

| | | | |
|---------------------------|--------------------|----------|--|
| Intestine Small - Jejunum | Islets, Pancreatic | Pancreas | |
|---------------------------|--------------------|----------|--|

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY
[Hepatocellular Adenoma TGLS = 1,2-1]

Lymph Node
Note: MAND L N:NORMAL

| | | | |
|---------|-------------|----------------------------------|----------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Stomach | Forestomach | Hyperkeratosis | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7012

TRT#: 15

SEX: Female

DAY ON TEST: 515

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|---------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| Note: GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; [Hepatocellular Adenoma TGLS = 3,4,5-1] | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| Note: ECTASIA TGLs = 6-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 2-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 1-1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7013

TRT#: 15

SEX: Female

DAY ON TEST: 592

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Mammary Gland |
| Nose | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Ovary

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|-------------------|
| Adrenal Gland | Cortex | Infarct | Marked |
| Intest Large | | | |
| Note: NO CORRESP LESION FOR CECAL NODULE NOTED AT TRIM | | | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Moderate |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-7 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Minimal |
| | Mesenteric | Infiltration Cellular | Histiocyte, Mild |
| Note: HEMA CELL PROL TGLs = 3-8 | | | |
| Note: INFILTRAT CELL TGLs = 3-8 | | | |
| Note: MAND L N: NORMAL | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7013

TRT#: 15

SEX: Female

DAY ON TEST: 592

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA TGLs = 3-8

Note: MAND L N: INSUFFICIENT TISSUE

| | | | |
|----------|--------|----------------------------------|-------------------|
| Pancreas | Artery | Inflammation | Chronic, Moderate |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7014

TRT#: 15

SEX: Female

DAY ON TEST: 491

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|------------|--------------------------|----------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1+7 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7015

TRT#: 15

SEX: Female

DAY ON TEST: 595

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

OBSERVATIONS

| | | | |
|--|-------------|----------------------------------|----------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| [Hepatocellular Adenoma TGLS = 1,2-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7015

TRT#: 15

SEX: Female

DAY ON TEST: 595

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7016

TRT#: 15

SEX: Female

DAY ON TEST: 508

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|--------------|----------------------------------|-------------------------|
| Harderian Gland | | Hyperplasia | Nodular, Mild |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | Glomerulus | Inflammation | Membranoprolif, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Mild |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3,4,5-1+7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS;, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3,4,5-1+7 | | | |
| Lung | Interstitium | Inflammation | Chronic, Minimal |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7016

TRT#: 15
DOSE: 30 PPM 0-10

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 508
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen
Urinary Bladder

Hematopoietic Cell Proliferation
Parasite Metazoan

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7017

TRT#: 15

SEX: Female

DAY ON TEST: 576

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|--|--------------|----------------------------------|----------------------|
| Heart | Coron Artery | Inflammation | Chronic, Mild |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7 | | | |
| Lymph Node | | | |
| Note: AND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7017

TRT#: 15

SEX: Female

DAY ON TEST: 576

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7018

TRT#: 15

SEX: Female

DAY ON TEST: 633

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Ovary
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Kidney
Parathyroid Gland
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Lung
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Stomach - Glandular
Urinary Bladder

MISSING

Lymph Node

Mammary Gland

Pituitary Gland

Salivary Glands

AUTO PRECLUDES DIAG.

Gallbladder

Intestine Small - Jejunum

OBSERVATIONS

Liver

Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Necrosis

Moderate
Minimal
Multiple
Multiple
Moderate
Coagulative, Minimal

Bile Duct

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS

Note: HEPATOCLR ADEN TGLs = 2,3,4-1+8

Note: HEPATOCLR CARC TGLs = 2,3,4-1+8

Note: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: MISSING

Pancreas

Artery

Inflammation

Chronic, Marked

Note: INFLAMMATION TGLs = 1-7

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Spleen

Hematopoietic Cell Proliferation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7018

TRT#: 15

SEX: Female

DAY ON TEST: 633

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7019

TRT#: 15

SEX: Female

DAY ON TEST: 634

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Ovary | Pituitary Gland |
| Salivary Glands | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|-------------------|---------------|
| Parathyroid Gland | Thyroid Gland |
|-------------------|---------------|

OBSERVATIONS

| | | | |
|--------|-----------|--------------------------|-------------------|
| Kidney | | Metaplasia | Osseous, Mild |
| Liver | Bile Duct | Cyst | Mild |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |

Note: HEPATOCLR CARC TGLs = 3,4,5-1+8

Note: C O DEATH: HEPATOCELLULAR EDENOMAS, CARCINOMAS;

Note: TOXIC HEPATOPATHY

[Hepatocellular Adenoma TGLs = 3,4,5-1+8]

| | | | |
|------------|-------------------|---------|--------|
| Lymph Node | Mesenteric, Sinus | Ectasia | Marked |
|------------|-------------------|---------|--------|

Note: MAND L N: MISSING

Note: ECTASIA TGLs = 2,6-7

| | | | |
|----------|--------|--------------|-------------------|
| Pancreas | Artery | Infarct | Marked |
| | | Inflammation | Chronic, Moderate |

Note: INFLAMMATION TGLs = 8-4+10

Note: INFARCT TGLs = 8-10

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7019

TRT#: 15

SEX: Female

DAY ON TEST: 634

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|-------------|----------------------------------|---------|
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL | TGLs = 1-1 | | |
| Stomach | Forestomach | Squamous Cell Papilloma | |
| Note: PAPILLOMA SQUA | TGLs = 7-9 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7020

TRT#: 15

SEX: Female

DAY ON TEST: 660

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

| | | |
|-----------|--------------------------|----------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |
| Bile Duct | Hyperplasia | Moderate |
| | Necrosis | Coagulative, Minimal |

Note: TOXIC HEPATOPATHY

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

[Hepatocellular Adenoma TGLS = 1,2,3-1+7+8]

[Hepatocellular Carcinoma TGLS = 1,2,3-1+7+8]

Lymph Node

Note: MAND L N: NORMAL

Stomach

Note: NO CORRESP LESION FOR STMACH THINNING NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7021

TRT#: 15

SEX: Female

DAY ON TEST: 671

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Lung | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | | | |
|---------------------------|--------------------|------------|---------------|
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node | Mammary Gland |
|---------------------------|--------------------|------------|---------------|

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, | | | |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Ovary | Rete Ovarii | Cyst | |
| Note: CYST TGLs = 4-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 5-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7022

TRT#: 15

SEX: Female

DAY ON TEST: 440

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|-------------------|-----------------|
| Parathyroid Gland | Pituitary Gland |
|-------------------|-----------------|

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 2,3,4,5,6,7-1+7 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, | | | |
| Lymph Node | Mandibular | Hyperplasia | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 1-6 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7023

TRT#: 15

SEX: Female

DAY ON TEST: 635

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|---|----------------|----------------------------------|-----------------------|
| Heart | Atrium | Dilatation | Marked |
| Note: DILATATION | TGLs = 3-2+7 | | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Moderate |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; | | | |
| Note: HEPATOCLR CARC | TGLs = 1,2-1+8 | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7024

TRT#: 15

SEX: Female

DAY ON TEST: 652

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Skin |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|---------------|-----------------|
| Mammary Gland | Salivary Glands |
|---------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------|-------------|--------------------------|------------------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Mild |
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1,2,3-7

Note: HEPATOCLR CARC TGLs = 1,2,3-7

| | | | |
|------------|-------------------|---------|------|
| Lymph Node | Mesenteric, Sinus | Ectasia | Mild |
|------------|-------------------|---------|------|

Note: MAND L N: MISSING

Note: ECTASIA TGLs = 4-8

| | | | |
|--------|-------------|----------------------------------|----------|
| Ovary | Rete Ovarii | Cyst | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7024

TRT#: 15

SEX: Female

DAY ON TEST: 652

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7025

TRT#: 15

SEX: Female

DAY ON TEST: 575

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-8+10 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-8+9+10 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7026

TRT#: 15

SEX: Female

DAY ON TEST: 573

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------|---------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Gallbladder |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic | Nose |
| Ovary | Skin | Stomach - Forestomach | Stomach - Glandular |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|-------------------------|-----------------|---------------|-------------------------|
| Brain | Esophagus | Heart | Intestine Large - Colon |
| Intestine Small - Ileum | Lung | Mammary Gland | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Thymus | Thyroid Gland |
| Trachea | | | |

AUTO PRECLUDES DIAG.

| | |
|-------------------------|--------------------------|
| Intestine Large - Cecum | Intestine Large - Rectum |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------|-----------|----------------------------------|-------------------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Mild |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cyst | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Mild |

Note: HEPATOCLR CARC TGLs = 2,3-7+8

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS,CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 2,3-7

Note: CYST TGLs = 4-8

| | | | |
|------------|-------------------|---------|----------|
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| | Pancreatic, Sinus | Ectasia | Mild |

Note: MAND L N: MISSING

Note: ECTASIA TGLs = 6-4

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7026

TRT#: 15

SEX: Female

DAY ON TEST: 573

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------|---|--------|----------------------------------|
| Note: ECTASIA | TGLs = 5-4 | | |
| Pancreas | | Artery | Inflammation |
| Note: INFLAMMATION | TGLs = 5,6-4+9+10 | | |
| Spleen | | | Hematopoietic Cell Proliferation |
| | [Hematopoietic Cell Proliferation TGLS = 1-1] | | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7027

TRT#: 15

SEX: Female

DAY ON TEST: 519

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Nose | Ovary |
| Pancreas | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|---------------|-------------------|-------------------------|-----------------|
| Brain | Esophagus | Intestine Large - Colon | Lymph Node |
| Mammary Gland | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Thyroid Gland | Trachea | | |

OBSERVATIONS

| | | | |
|-------|------------|--------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: HEPATOCLR ADEN TGLs = 1,3-1

Note: HEPATOCLR CARC TGLs = 1,2,3-3

Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMA

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis

Minimal

Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7028

TRT#: 15

SEX: Female

DAY ON TEST: 484

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

AUTO PRECLUDES DIAG.

| |
|-------------------------|
| Intestine Small - Ileum |
|-------------------------|

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Necrosis | Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,3-1+7 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,3,4-7+8 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 2-6 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7028

TRT#: 15

SEX: Female

DAY ON TEST: 484

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7029

TRT#: 15

SEX: Female

DAY ON TEST: 575

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|--------------------------|--------|
| Intestine Large - Rectum | Thymus |
|--------------------------|--------|

OBSERVATIONS

| | | | |
|-----------------|------------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2,3-8+9+10

Note: HEPATOCLR ADEN TGLs = 1,2,3-9+10

Note: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis Minimal

Hyperkeratosis Minimal

Parasite Metazoan

Spleen

Hematopoietic Cell Proliferation Mild

Note: HEMA CELL PROL TGLs = 4-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7029

TRT#: 15

SEX: Female

DAY ON TEST: 575

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7030

TRT#: 15

SEX: Female

DAY ON TEST: 484

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-----------------|-----------------|---------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Intestine Large - Rectum | Lung | Lymph Node | Nose |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|-------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic | Kidney | Liver | Mammary Gland |
| Ovary | Pancreas | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | | |

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Brain
Note: NO CORRESP LESION FOR BRAIN SOFTNESS NOTED AT NECROPSY

Lymph Node
Note: MAND L N: NORMAL

| | | |
|------|-------------------|---------|
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |

Uterus
Note: C O DEATH : UNKNOWN

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7031

TRT#: 15

SEX: Female

DAY ON TEST: 529

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Nose | Ovary |
| Pancreas | Stomach - Forestomach | Stomach - Glandular | Urinary Bladder |
| Uterus | | | |

MISSING

| | | | |
|-----------------|-----------------|---------------|-------------------|
| Brain | Lymph Node | Mammary Gland | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Thymus | Thyroid Gland |
| Trachea | | | |

OBSERVATIONS

| | | | |
|--|-------|----------------------------------|--------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-7 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 4,5-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7031

TRT#: 15

SEX: Female

DAY ON TEST: 529

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7032

TRT#: 15

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|-------------|--------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: TOXIC HEPATOPATHY | | | |
| [Hepatocellular Adenoma TGLS = 1,2-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hyperplasia | Lymphoid, Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7032

TRT#: 15

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7033

TRT#: 15

SEX: Female

DAY ON TEST: 359

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|-------|------------|------------------------|------------------------------|
| Heart | Myocardium | Inflammation | Chronic, Multifocal, Minimal |
| Liver | | Cytomegaly | Mild |
| | | Eosinophilic Focus | Mild |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Necrosis | Coagulative, Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 3-1+7

Lymph Node

Note: MAND L N: NORMAL

Mesentery

Note: INFLAMMATION TGLs = 2-4

Ovary

Note: [TERATOMA] TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7034

TRT#: 15

SEX: Female

DAY ON TEST: 470

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Kidney
Ovary
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Salivary Glands
Thyroid Gland

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node
Skin
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Stomach - Forestomach
Urinary Bladder

MISSING

Esophagus
Pituitary Gland

Gallbladder
Thymus

Mammary Gland

Parathyroid Gland

AUTO PRECLUDES DIAG.

Islets, Pancreatic

Pancreas

OBSERVATIONS

Liver

Cytomegaly
Fatty Change
Hepatocellular Adenoma
Necrosis

Mild
Minimal
Multiple
Coagulative, Moderate

Note: [HEPATOCLR ADEN] TGLs = 1,2-1

Note: C O DEATH: HEPATOCELLULAR ADENOMA; TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7035

TRT#: 15

SEX: Female

DAY ON TEST: 515

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node
Parathyroid Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Thymus

Bone
Gallbladder
Intestine Small - Duodenum
Kidney
Ovary
Salivary Glands
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lung
Pancreas
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Urinary Bladder

OBSERVATIONS

Intest Small

Note: NOTED AT NECROPSY IN JEJUNUM

Note: NO CORRESPONDING LESION FOR BLACK ACCUMULATION

Intestine Large

Colon

Parasite Metazoan

Liver

Cytomegaly

Moderate

Fatty Change

Minimal

Hepatocellular Adenoma

Multiple

Hepatocellular Carcinoma

Multiple

Hyperplasia

Mild

Necrosis

Coagulative, Mild

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 2,3-7

Note: HEPATOCLR ADEN TGLs = 2,3-1

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7035

TRT#: 15

SEX: Female

DAY ON TEST: 515

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hyperkeratosis

Minimal

Parasite Metazoan

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7036

TRT#: 15

SEX: Female

DAY ON TEST: 519

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|-----------|--------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7 Note: TOXIC HEPATOPATHY [Hepatocellular Carcinoma TGLS = 1,2,3-7] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7037

TRT#: 15

SEX: Female

DAY ON TEST: 544

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Colon
Kidney
Ovary
Salivary Glands
Thymus

Bone
Gallbladder
Intestine Large - Rectum
Lung
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

Intestine Small - Jejunum

Urinary Bladder

OBSERVATIONS

Liver

Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hyperplasia

Moderate
Minimal
Multiple
Minimal

Bile Duct

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1,2,3-1

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7038

TRT#: 15

SEX: Female

DAY ON TEST: 683

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| Note: HEPATOCLR ADEN TGLs = 1,2-8+9+10 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, TOXIC HEPATOPATHY; | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Note: HEMA CELL PROL TGLs = 3-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7039

TRT#: 15

SEX: Female

DAY ON TEST: 599

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Nose | Ovary | Pancreas |
| Pituitary Gland | Skin | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | | | |
|---------------|-------------------|-----------------|--------|
| Mammary Gland | Parathyroid Gland | Salivary Glands | Thymus |
|---------------|-------------------|-----------------|--------|

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, Note: HEPATOCLR ADEN TGLs = 1,2,3-7 Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Minimal |
| Note: ECTASIA TGLs = 4-8 Note: MAND L N: MISSING | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7040

TRT#: 15

SEX: Female

DAY ON TEST: 589

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-7+8 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-7+8 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

| | | | |
|------------------------|---|--|--|
| ANIMAL ID: 7041 | TRT#: 15 DOSE: 30 PPM 0-10 | SEX: Female DISP: Natural Death | DAY ON TEST: 485 HISTO: |
|------------------------|---|--|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Ileum | Intestine Small - Jejunum | Kidney |
| Lung | Lymph Node | Nose | Parathyroid Gland |
| Salivary Glands | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|-------------|----------------------------|---------------------|-----------------|
| Gallbladder | Intestine Small - Duodenum | Mammary Gland | Pituitary Gland |
| Spleen | Stomach - Forestomach | Stomach - Glandular | |

AUTO PRECLUDES DIAG.

| | |
|--------------------|----------|
| Islets, Pancreatic | Pancreas |
|--------------------|----------|

OBSERVATIONS

| | | | |
|-----------------|--------|--------------------------|----------|
| Intestine Large | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1-1

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; CARCINOMA;

Note: HEPATOCLR CARC TGLs = 1-7

Lymph Node

Note: MAND L N: NORMAL

Ovary

Skin

| | |
|-------------------|----------|
| Mineralization | Moderate |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7042

TRT#: 15

SEX: Female

DAY ON TEST: 513

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|-----------------------|-------------------------|-----------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Cecum | Lung |
| Lymph Node | Nose | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | | | |

MISSING

| | | | |
|------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Intestine Large - Colon | Intestine Large - Rectum |
| Islets, Pancreatic | Kidney | Mammary Gland | Ovary |
| Pancreas | Thymus | Urinary Bladder | Uterus |

AUTO PRECLUDES DIAG.

| | | |
|----------------------------|-------------------------|---------------------------|
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
|----------------------------|-------------------------|---------------------------|

OBSERVATIONS

Intest Large

Note: RECTUM NOTED AT NECROPSY

Note: NO CORRESP LESION FOR BLACK ACCUMULATION OF

Intest Small

Note: NO CORRESP LESION FOR BLACK ACCUMULATION NOTED

Note: IN DUODENUM AND JEJUNUM AT NECROPSY

Liver

| | |
|--------------------------|----------|
| Cytomegaly | Moderate |
| Fatty Change | Minimal |
| Hepatocellular Adenoma | Multiple |
| Hepatocellular Carcinoma | Multiple |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 4,5-1

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 4,6,7-1+7

Lymph Node

Note: MAND L N: NORMAL

Skin

| | |
|----------------|---------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7042

TRT#: 15

DOSE: 30 PPM 0-10

SEX: Female

DISP: Natural Death

DAY ON TEST: 513

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Parasite Metazoan

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7043

TRT#: 15

SEX: Female

DAY ON TEST: 580

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Parathyroid Gland
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Colon
Lung
Thyroid Gland

Bone
Gallbladder
Intestine Large - Rectum
Nose
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Ovary
Urinary Bladder

MISSING

Intestine Small - Duodenum
Pancreas
Stomach - Forestomach

Islets, Pancreatic
Pituitary Gland
Stomach - Glandular

Lymph Node
Salivary Glands

Mammary Gland
Spleen

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Kidney
Liver

Bile Duct

Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Necrosis

Chronic, Moderate
Moderate
Minimal
Multiple
Multiple
Mild
Coagulative, Mild

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR ADEN TGLs = 1,2,3,4-7+8+9

Note: HEPATOCLR CARC TGLs = 1,2,3,4-1+7+8+9

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7044

TRT#: 15

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | |
|--|----------------------------------|----------------------|
| Kidney | Nephropathy | Chronic, Minimal |
| Liver | Cytomegaly | Moderate |
| | Eosinophilic Focus | Moderate |
| | Fatty Change | Minimal |
| | Necrosis | Coagulative, Minimal |
| Note: C O MORB: EOSIN FOCUS, TOXIC HEPATOPATHY | | |
| Note: [EOSIN FOCUS] TGLs = 1,2-1 | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Spleen | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7045

TRT#: 15

SEX: Female

DAY ON TEST: 595

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-1+7 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7046

TRT#: 15

SEX: Female

DAY ON TEST: 530

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Rectum | Intestine Small - Duodenum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | | | |
|-------------------------|-------------------------|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|-------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2-1 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7047

TRT#: 15

SEX: Female

DAY ON TEST: 505

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Gallbladder | Heart | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | | | |
|------------------------|-------------------------|--------------------|--------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Islets, Pancreatic | Kidney |
| Pancreas | Spleen | Thymus | |

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

| | | | |
|---|------------|--------------------------|----------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMA, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7047

TRT#: 15

SEX: Female

DAY ON TEST: 505

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7048

TRT#: 15

SEX: Female

DAY ON TEST: 505

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|----------|
| Adrenal Gland | Subcapsular | Hyperplasia | Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, Note: HEPATOCLR ADEN TGLs = 1,2,3,4-1+7 Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7049

TRT#: 15

SEX: Female

DAY ON TEST: 506

DOSE: 30 PPM 0-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Kidney
Parathyroid Gland

Adrenal Gland - Medulla
Intestine Small - Ileum
Nose
Uterus

Bone
Intestine Small - Jejunum
Ovary

Bone Marrow
Islets, Pancreatic
Pancreas

MISSING

Brain
Lung
Salivary Glands
Thyroid Gland

Esophagus
Lymph Node
Stomach - Forestomach
Trachea

Gallbladder
Mammary Gland
Stomach - Glandular

Heart
Pituitary Gland
Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

Urinary Bladder

OBSERVATIONS

Intestine Large

Colon

Parasite Metazoan

Liver

Rectum

Parasite Metazoan

Cytomegaly

Moderate

Fatty Change

Minimal

Hepatocellular Adenoma

Single

Hepatocellular Carcinoma

Multiple

Necrosis

Coagulative, Minimal

Note: HEPATOCLR ADEN TGLs = 1,2-1

Note: HEPATOCLR CARC TGLs = 1,2-1+3

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: MISSING

Skin

Hyperkeratosis

Minimal

Parasite Metazoan

Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7050

TRT#: 15

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 0-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|---|-------------------|----------------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Marked |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| Lymph Node | Mandibular, Sinus | Ectasia | Minimal |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: ECTASIA TGLs = 4-6 Note: HEMA CELL PROL TGLs = 5-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7051

TRT#: 16

SEX: Female

DAY ON TEST: 454

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Nose |
| Ovary | Pancreas | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Uterus | | | |

MISSING

| | | | |
|--------------------------|-------------------------|------------|-----------------|
| Intestine Large - Rectum | Intestine Small - Ileum | Lymph Node | Mammary Gland |
| Parathyroid Gland | Pituitary Gland | Thymus | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|-----------|--------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR CARC TGLs = 1-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| [Hepatocellular Carcinoma TGLS = 1-7] | | | |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7052

TRT#: 16

SEX: Female

DAY ON TEST: 489

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 1,2-7

Note: HEPATOCLR ADEN TGLs = 1,3,4-1+7

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Lymph Node

Note: MAND L N: NORMAL

Skin

| | |
|----------------|---------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |

Spleen

| | |
|----------------------------------|----------|
| Parasite Metazoan | |
| Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7053

TRT#: 16

SEX: Female

DAY ON TEST: 495

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|---------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: [HEPATOCLR ADEN] TGLs = 1,2,3,4,5-1+7 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7054

TRT#: 16

SEX: Female

DAY ON TEST: 480

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Ovary | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|----------|----------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |
| Note: HEPATOCLR CARC TGLs = 3,5-1 | | | |
| Note: NO CORRESP LESION FOR LEFT LATERAL LOBE MASS SEEN AT NECR | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS, TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Pancreas | Artery | Inflammation | Chronic, Minimal |
| Note: INFLAMMATION TGLs = 2-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 1-1] | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7054

TRT#: 16

SEX: Female

DAY ON TEST: 480

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7055

TRT#: 16

SEX: Female

DAY ON TEST: 484

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Lymph Node
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Pituitary Gland
Thymus
Uterus

MISSING

Gallbladder Mammmary Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Necrosis

Chronic, Minimal
Moderate
Minimal
Multiple
Single
Minimal
Coagulative, Mild

Bile Duct

Note: TOXIC HEPATOPATHY

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: HEPATOCLR ADEN TGLs = 1,2-1

Note: HEPATOCLR CARC TGLs = 1,3-7

Lung
Lymph Node

Note: MAND L N: NORMAL

Skin

Hepatocellular Carcinoma

Metastatic (Liver)

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7056

TRT#: 16

SEX: Female

DAY ON TEST: 369

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Ovary | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---------------|-------------|--------------------------|-------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Minimal |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Mild |
| | | Thrombosis | |

Note: TOXIC HEPATOPATHY

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA;

[Hepatocellular Adenoma TGLS = 2,3-1]

[Hepatocellular Carcinoma TGLS = 1,3-7]

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|----------|-------------|----------------------------------|------------------|
| Pancreas | Artery | Inflammation | Chronic, Minimal |
| Skin | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |
| Stomach | Forestomach | Acanthosis | Moderate |
| | Forestomach | Hyperkeratosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7056

TRT#: 16

SEX: Female

DAY ON TEST: 369

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7057

TRT#: 16

SEX: Female

DAY ON TEST: 470

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|---------------|
| Adrenal Gland Note: PHEOCHROM BGN TGLs = 1-6 | Medulla | Pheochromocytoma Benign | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 2,4-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| [Hepatocellular Adenoma TGLS = 2,3-1+7] | | | |
| Lymph Node Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7058

TRT#: 16

SEX: Female

DAY ON TEST: 442

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|----------------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: TOXIC HEPATOPATHY | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| [Hepatocellular Adenoma TGLS = 1-1] | | | |
| [Hepatocellular Carcinoma TGLS = 1-1] | | | |
| Lung | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7059

TRT#: 16

SEX: Female

DAY ON TEST: 312

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Gallbladder

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

OBSERVATIONS

| | | | |
|-----------------|-----------|------------------------|----------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Liver | | Clear Cell Focus | Minimal |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: CYTOMEGALY TGLs = 4-10

Note: TOXIC HEPATOPATHY

Note: C O MORB: HEPATOCELLULAR ADENOMAS,

Note: [HEPATOCLR ADEN] TGLs = 1,2,3,5-1+7+8+9

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7060

TRT#: 16

SEX: Female

DAY ON TEST: 515

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Stomach |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 2,3,4-1 | | | |
| Note: C O MORB: HEPATOCELLULAR CARCINOMA; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| | Mandibular | Hyperplasia | Lymphoid, Mild |
| Note: HEMA CELL PROL TGLs = 5-4 | | | |
| Note: HYPERPLASIA TGLs = 1-6 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7061

TRT#: 16

SEX: Female

DAY ON TEST: 401

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|-----------------|-------------|------------------------|----------|
| Adrenal Gland | Subcapsular | Hyperplasia | Minimal |
| Intestine Small | Ileum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY
[Hepatocellular Adenoma TGLS = 1,2-1+7]

Lymph Node
Note: MAND L N: NORMAL

| | | | |
|--------|--|----------------------------------|---------|
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7062

TRT#: 16

SEX: Female

DAY ON TEST: 291

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | |
|-------|--------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Multiple |

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 2,5,6-1+8

Note: HEPATOCLR CARC TGLs = 1,5,6-7+8

Note: C O MORB: HEPATOCELLULAR ADENOMA, CARCINOMAS;

Lung

Note: NO CORRESP LESION FOR REDNESS OF LUNGS NOTED AT NECROPSY

Lymph Node

Note: NO CORRESP LESION FOR ENLARGED, PALE/PINK MESENTERIC

Note: LYMPH NODES NOTED AT NECROPSY

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7063

TRT#: 16

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|---------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Clear Cell Focus | |
| | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 3-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7064

TRT#: 16

SEX: Female

DAY ON TEST: 445

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|-----------------|-----------|------------------------|----------|
| Intestine Large | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS,

Note: TOXIC HEPATOPATHY

[Hepatocellular Adenoma TGLS = 1-1+7]

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7065

TRT#: 16

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|------------------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Mild |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Ileum | Parasite Metazoan | |
| Note: LYMPHOID TISSUE NOTED AT TIME OF NECROPSY | | | |
| Note: NO CORRESP LESION FOR ENLARGEMENT OF SMALL INTESTINE | | | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7066

TRT#: 16

SEX: Female

DAY ON TEST: 411

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Bone | Bone Marrow | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Nose |
| Ovary | Pancreas | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Urinary Bladder | Uterus |

MISSING

| | | | |
|---------------|--------------------------|-----------------|-----------------|
| Brain | Intestine Large - Rectum | Lung | Lymph Node |
| Mammary Gland | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Thymus | Thyroid Gland | Trachea | |

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

| | | | |
|-------|-----------|------------------------|----------|
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1-1+3

Lymph Node

Note: MAND L N: MISSING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7067

TRT#: 16

SEX: Female

DAY ON TEST: 519

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|--|-------------------|----------------------------------|-------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | | Necrosis | Coagulative, Mild |
| <p>Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; Note: HEPATOCLR ADEN TGLs = 1,3,4-1 Note: TOXIC HEPATOPATHY Note: HEPATOCLR CARC TGLs = 1,2-1</p> | | | |
| Lymph Node | Mesenteric, Sinus | Ectasia | Moderate |
| <p>Note: MAND L N: NORMAL Note: ECTASIA TGLs = 5-4</p> | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7068

TRT#: 16

SEX: Female

DAY ON TEST: 506

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Uterus |

MISSING

| | |
|-------------------------|-------------------------|
| Intestine Large - Cecum | Intestine Large - Colon |
|-------------------------|-------------------------|

AUTO PRECLUDES DIAG.

Urinary Bladder

OBSERVATIONS

| | | |
|--|----------------------------------|------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |
| Note: TOXIC HEPATOPATHY | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | |
| [Hepatocellular Adenoma TGLS = 1,2-1] | | |
| [Hepatocellular Carcinoma TGLS = 1,2-1] | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Skin | Acanthosis | Minimal |
| | Hyperkeratosis | Minimal |
| | Parasite Metazoan | |
| Spleen | Hematopoietic Cell Proliferation | Minimal |
| Thyroid Gland | Follicle Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7069

TRT#: 16

SEX: Female

DAY ON TEST: 515

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|---------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| [Hepatocellular Carcinoma TGLS = 1,2,3-1] | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-4 | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7070

TRT#: 16

SEX: Female

DAY ON TEST: 520

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node | Nose | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|-------------|---------------|-------|--|
| Gallbladder | Mammary Gland | Ovary | |
|-------------|---------------|-------|--|

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|-------------------|
| Adrenal Gland | Cortex | Hematopoietic Cell Proliferation | Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2-1 | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7071

TRT#: 16

SEX: Female

DAY ON TEST: 512

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|----------------------|
| Intest Small | | | |
| Note: NO CORRESP LESION FOR JEJUNAL PIGMENT NOTED GROSSLY | | | |
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR ADEN TGLs = 2,3-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7072

TRT#: 16

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | Bile Duct | Hepatocellular Adenoma | Multiple |
| | | Hyperplasia | Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY [Hepatocellular Adenoma TGLS = 1,2-1] | | | |
| Lung | | Inflammation | Chronic, Minimal |
| Lymph Node | Mandibular | Hematopoietic Cell Proliferation | Mild |
| | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-4 [Hematopoietic Cell Proliferation TGLS = 3-6] | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7073

TRT#: 16

SEX: Female

DAY ON TEST: 403

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

PRIMARY CAUSE OF DEATH

-

Animal Note: NO TISSUES WERE TAKEN, BECAUSE THIS ANIMAL WAS COMPLETELY

Animal Note: CANNABILIZED

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7074

TRT#: 16

SEX: Female

DAY ON TEST: 502

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Kidney | Lung |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

| | | | |
|------------------------|-------------------------|---------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Gallbladder | Intestine Small - Ileum |
| Islets, Pancreatic | Lymph Node | Mammary Gland | Thymus |

INSUFFICIENT TISSUE

Liver

OBSERVATIONS

Intest Small
Note: NO CORRESP LESION FOR JEJUNAL PIGMENT SEEN AT NECROPSY

Lymph Node
Note: MAND L N: MISSING

Skin

Uterus
Note: C O DEATH: UNKNOWN

| | |
|-------------------|---------|
| Acanthosis | Minimal |
| Hyperkeratosis | Minimal |
| Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7075

TRT#: 16

SEX: Female

DAY ON TEST: 402

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

OBSERVATIONS

| | | |
|-------|--------------------------|----------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Multiple |
| | Hepatocellular Carcinoma | Single |

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: HEPATOCLR ADEN TGLs = 1,2-1

[Hepatocellular Carcinoma TGLS = 2-7]

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7076

TRT#: 16

SEX: Female

DAY ON TEST: 519

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Kidney

Adrenal Gland - Medulla
Ovary

Bone
Urinary Bladder

Bone Marrow
Uterus

MISSING

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Spleen
Thyroid Gland

Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node
Parathyroid Gland
Stomach - Forestomach
Trachea

Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Glandular

Heart
Intestine Small - Duodenum
Liver
Nose
Salivary Glands
Thymus

OBSERVATIONS

Lymph Node
Note: MAND L N: MISSING
Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: C O DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7077

TRT#: 16

SEX: Female

DAY ON TEST: 592

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|------------|--------|
| Lymph Node | Thymus |
|------------|--------|

OBSERVATIONS

| | | | |
|--|-----------|----------------------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| | Rectum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | Bile Duct | Hepatocellular Carcinoma | Multiple |
| | | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Mild |
| Note: C O MORB: HEPATOCELLULAR CARCINOMAS, TOXIC HEPATOPATHY; Note: HEPATOCLR CARC TGLs = 1,2-8+9 Note: GLOMERULONEPHRITIS | | | |
| Lymph Node | | | |
| Note: MAND L N: MISSING | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 3-7 | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)

CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7077

TRT#: 16

SEX: Female

DAY ON TEST: 592

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7078

TRT#: 16

SEX: Female

DAY ON TEST: 533

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Gallbladder
Intestine Small - Jejunum

Adrenal Gland - Medulla
Intestine Large - Cecum
Nose

Bone
Intestine Large - Rectum
Urinary Bladder

Bone Marrow
Intestine Small - Ileum

MISSING

Brain
Islets, Pancreatic
Ovary
Salivary Glands
Thymus

Esophagus
Lung
Pancreas
Spleen
Thyroid Gland

Heart
Lymph Node
Parathyroid Gland
Stomach - Forestomach
Trachea

Intestine Small - Duodenum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Intestine Large
Kidney
Liver

Colon

Parasite Metazoan
Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hyperplasia
Necrosis

Chronic, Mild
Moderate
Minimal
Multiple
Minimal
Minimal

Note: GLOMERULONEPHRITIS

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;
[Hepatocellular Adenoma TGLS = 1,2-1]

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7079

TRT#: 16

SEX: Female

DAY ON TEST: 620

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Mammary Gland | Nose |
| Ovary | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR CARC TGLs = 1,2-1+7 | | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Moderate |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 3-8 | | | |
| Pancreas | | Hemorrhage | Mild |
| | Artery | Inflammation | Chronic, Moderate |
| Note: INFLAMMATION TGLs = 4-9 | | | |
| Note: HEMORRHAGE TGLs = 4-9 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014
Time Report Requested: 22:34:01
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7079

TRT#: 16
DOSE: 30 PPM 10-10

SEX: Female
DISP: Natural Death

DAY ON TEST: 620
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--------|----------------------------------|----------|
| Spleen | Hematopoietic Cell Proliferation | Moderate |
|--------|----------------------------------|----------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7080

TRT#: 16

SEX: Female

DAY ON TEST: 519

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Pancreas
Uterus

Adrenal Gland - Medulla
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach

Bone
Intestine Small - Duodenum
Mammary Gland
Stomach - Glandular

Bone Marrow
Intestine Small - Ileum
Ovary
Urinary Bladder

MISSING

Brain
Lung
Pituitary Gland
Trachea

Esophagus
Lymph Node
Salivary Glands

Gallbladder
Nose
Thymus

Heart
Parathyroid Gland
Thyroid Gland

OBSERVATIONS

Intestine Large
Kidney
Liver

Colon

Parasite Metazoan
Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hyperplasia
Necrosis

Chronic, Mild
Minimal
Minimal
Multiple
Minimal
Coagulative, Mild

Bile Duct

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

[Hepatocellular Adenoma TGLS = 1,2,3-1+7]

Lymph Node

Note: MAND L N: MISSING

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7081

TRT#: 16

SEX: Female

DAY ON TEST: 512

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Rectum |
| Intestine Small - Duodenum | Lung | Lymph Node | Mammary Gland |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|---------------------------|-------------------------|-------------------------|-------------------------|
| Gallbladder | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | | |

OBSERVATIONS

| | | | |
|---|-----------|------------------------|------------------|
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7082

TRT#: 16

SEX: Female

DAY ON TEST: 606

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Mammary Gland | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Gallbladder

OBSERVATIONS

| | | | |
|---|------------|----------------------------------|-----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Moderate |
| | | Thrombosis | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: C O MORB: HEPATOCELLULAR CARCINOMAS; | | | |
| Note: [HEPATOCLR CARC] TGLs = 1,2,3-7+9+1 | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: MAND L N: NORMAL | | | |
| Note: HEMA CELL PROL TGLs = 4-8 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:01

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7083

TRT#: 16

SEX: Female

DAY ON TEST: 389

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Stomach - Glandular

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Skin
Urinary Bladder

Bone
Intestine Large - Rectum
Kidney
Spleen
Uterus

Bone Marrow
Intestine Small - Duodenum
Ovary
Stomach - Forestomach

MISSING

Brain
Lung
Parathyroid Gland
Thyroid Gland

Esophagus
Lymph Node
Pituitary Gland
Trachea

Gallbladder
Mammary Gland
Salivary Glands

Heart
Nose
Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Liver

Cytomegaly
Fatty Change
Hepatocellular Adenoma

Moderate
Minimal
Single

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY
[Hepatocellular Adenoma TGLS = 1-1]

Lymph Node

Note: MAND L N: MISSING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7084

TRT#: 16

SEX: Female

DAY ON TEST: 389

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Blood | Bone |
| Bone Marrow | Brain | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Kidney | Lung | Lymph Node | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

OBSERVATIONS

| | | | |
|--|----------------|------------------------|-----------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: HEPATOCLR ADEN TGLs = 2-1 | | | |
| Note: STOMACH ULCERS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Ovary | Periovarn Tiss | Cyst | |
| Note: CYST TGLs = 1-6 | | | |
| Stomach | Glandular | Ulcer | Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7085

TRT#: 16

SEX: Female

DAY ON TEST: 538

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|-------------------------|-------------------------|-------------------------|---------------|
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum | Mammary Gland |
|-------------------------|-------------------------|-------------------------|---------------|

OBSERVATIONS

| | | | |
|--|-----------------|------------------------|-------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Note: GLOMERULONEPHRITIS | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY; | | | |
| Lung | Interstitialium | Inflammation | Chronic, Mild |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Stomach | | | |
| Note: GLANDULAR STOMACH SEEN AT NECROPSY | | | |
| Note: NO CORRESP LESION FOR ROUND, BLACK LESIONS OF | | | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7086

TRT#: 16

SEX: Female

DAY ON TEST: 477

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Brain |
| Esophagus | Gallbladder | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|--------------|----------------------------------|------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Minimal |
| Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR ADEN TGLs = 3,4,5,6,7-1+7 | | | |
| Note: HEPATOCLR CARC TGLs = 3,4-7 | | | |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | Single |
| Note: ALV BRON ADEN TGLs = 1-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | Subcut Tiss | Hemangioma | |
| | | Hyperkeratosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7086

TRT#: 16

SEX: Female

DAY ON TEST: 477

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Mild

Note: HEMA CELL PROL TGLs = 2-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7087

TRT#: 16

SEX: Female

DAY ON TEST: 571

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Ovary | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|-------------------------|---------------|
| Intestine Small - Ileum | Mammary Gland |
|-------------------------|---------------|

OBSERVATIONS

| | | | |
|--------|-----------|------------------------|-----------------------|
| Kidney | | Nephropathy | Chronic, Moderate |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Moderate |
| | | Necrosis | Coagulative, Moderate |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY;

Note: GLOMERULONEPHRITIS

Note: NECROSIS TGLs = 2-7

Note: HEPATOCLR ADEN TGLs = 1,3-8

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|---------------|--------------|----------------------------------|------------------|
| Pancreas | Interlobular | Inflammation | Chronic, Minimal |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7088

TRT#: 16

SEX: Female

DAY ON TEST: 557

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|---------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Multiple |
| | Bile Duct | Hyperplasia | Mild |
| | | Necrosis | Coagulative, Marked |
| | | Thrombosis | |

Note: HEPATOCLR ADEN TGLs = 1,2,3,5-8+9

Note: NECROSIS TGLs = 4-7

Note: HEPATOCLR CARC TGLs = 1,2,3,5-8+9

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: TOXIC HEPATOPATHY

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis Minimal

Hyperkeratosis Minimal

Parasite Metazoan

Hematopoietic Cell Proliferation Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7089

TRT#: 16

SEX: Female

DAY ON TEST: 498

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Blood | Bone |
| Bone Marrow | Brain | Esophagus | Gallbladder |
| Heart | Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|----------|--------------------------|------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| Note: HEPATOCLR CARC TGLs = 1,3-1+7 | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7+8 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7090

TRT#: 16

SEX: Female

DAY ON TEST: 347

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---------------|-------------|--------------------------|----------------------|
| Adrenal Gland | Subcapsular | Hyperplasia | Minimal |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |

Note: C O MORB: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 4,5-1+7

Note: HEPATOCLR CARC TGLs = 1,4-8

Lymph Node Mesenteric, Sinus Ectasia Mild

Note: MAND L N: NORMAL

Skin Parasite Metazoan

Spleen Hematopoietic Cell Proliferation Mild

Uterus

Note: NO CORRESP LESION FOR SMALL UTERUS NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7090

TRT#: 16

SEX: Female

DAY ON TEST: 347

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7091

TRT#: 16

SEX: Female

DAY ON TEST: 350

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node | Mammary Gland | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|-----------------|--------|
| Pituitary Gland | Thymus |
|-----------------|--------|

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Gallbladder

Note: GALLBLADDER ABSENT BUT COMMON BILE DUCT PRESENT & NORMAL

Liver

| | |
|--------------------------|----------|
| Cytomegaly | Moderate |
| Eosinophilic Focus | Moderate |
| Fatty Change | Minimal |
| Hepatocellular Adenoma | Multiple |
| Hepatocellular Carcinoma | Single |
| Hyperplasia | Minimal |

Bile Duct

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 2,3-7

Note: HEPATOCLR ADEN TGLs = 1,2,3-1+7

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Lymph Node

Note: MAND L N: NORMAL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7092

TRT#: 16

SEX: Female

DAY ON TEST: 364

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Nose | Ovary | Pancreas |
| Pituitary Gland | Salivary Glands | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|-------------------|------------------------|-----------------|
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Bile Duct | Hyperplasia | Minimal |
| Note: HEPATOCLR ADEN TGLs = 2,3-1+7 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Lymph Node | Mandibular, Sinus | Ectasia | Mild |
| Note: ECTASIA TGLs = 1-6 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7093

TRT#: 16

SEX: Female

DAY ON TEST: 515

DOSE: 30 PPM 10-10

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|------------|----------------------------------|----------------------|
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Eosinophilic Focus | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Single |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Coagulative, Minimal |
| Note: C O MORB: HEPATOCELLULAR ADENOMAS; TOXIC HEPATOPATHY | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Lymph Node | Mesenteric | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL TGLs = 4-4 | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7094

TRT#: 16

SEX: Female

DAY ON TEST: 463

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | | |
|---------------|-------|------|
| Mammary Gland | Ovary | Skin |
|---------------|-------|------|

OBSERVATIONS

| | | | |
|-----------------|-----------|--------------------------|------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR CARC TGLs = 1,2-1

Note: HEPATOCLR ADEN TGLs = 1,2-1+7

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|--------|--|----------------------------------|------|
| Spleen | | Hematopoietic Cell Proliferation | Mild |
|--------|--|----------------------------------|------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7095

TRT#: 16

SEX: Female

DAY ON TEST: 512

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Colon
Islets, Pancreatic
Nose
Salivary Glands
Thyroid Gland

Bone
Gallbladder
Intestine Large - Rectum
Lung
Ovary
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node
Pancreas
Stomach - Glandular
Urinary Bladder

MISSING

Pituitary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Kidney
Liver

Bile Duct

Nephropathy
Cytomegaly
Fatty Change
Hematopoietic Cell Proliferation
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Necrosis

Chronic, Mild
Moderate
Minimal
Mild
Multiple
Multiple
Mild
Coagulative, Minimal

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Note: HEPATOCLR CARC TGLs = 1,2,3,4-1

Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS

Note: HEPATOCLR ADEN TGLs = 1,2,3,4,5,6-1+7

Lymph Node

Note: MAND L N: NORMAL

Skin

Acanthosis
Hyperkeratosis
Parasite Metazoan

Minimal
Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7095

TRT#: 16

SEX: Female

DAY ON TEST: 512

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7096

TRT#: 16

SEX: Female

DAY ON TEST: 501

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node
Pancreas
Skin
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Thyroid Gland

MISSING

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Cytomegaly
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Necrosis

Chronic, Minimal
Moderate
Minimal
Multiple
Single
Minimal
Coagulative, Minimal

Bile Duct

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA;

Note: TOXIC HEPATOPATHY

Note: HEPATOCLR ADEN TGLs = 1,2-1

Note: HEPATOCLR CARC TGLs = 1,2-1

Lymph Node

Note: MAND L N: NORMAL

Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

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Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7097

TRT#: 16

SEX: Female

DAY ON TEST: 619

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node | Nose | Ovary |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | |
|-------|--------------------------|-------------------|
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Adenoma | Single |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Mild |
| | Thrombosis | |

Note: HEPATOCLR CARC TGLs = 1,2-8

Note: HEPATOCLR ADEN TGLs = 1,2-7+8

Note: TOXIC HEPATOPATHY

Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS;

Lymph Node

Note: MAND L N: NORMAL

| | | | |
|---------------|----------|----------------------------------|------------------|
| Pancreas | Artery | Inflammation | Chronic, Mild |
| Skin | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thyroid Gland | Follicle | Hyperplasia | Nodular, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7098

TRT#: 16

SEX: Female

DAY ON TEST: 554

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node | Nose |
| Ovary | Pancreas | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | | | |
|---------------|-------------------|--------|--|
| Mammary Gland | Parathyroid Gland | Thymus | |
|---------------|-------------------|--------|--|

OBSERVATIONS

| | | | |
|---|-----------|----------------------------------|------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| | Colon | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Minimal |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Mild |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMAS; | | | |
| Note: TOXIC HEPATOPATHY | | | |
| [Hepatocellular Adenoma TGLS = 1,2,3-1] | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7099

TRT#: 16

SEX: Female

DAY ON TEST: 537

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node | Nose |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

OBSERVATIONS

| | | | |
|--|------------|--------------------------|--------------------|
| Intestine Large | Cecum | Parasite Metazoan | |
| Kidney | | Nephropathy | Chronic, Mild |
| Liver | | Cytomegaly | Moderate |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Single |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Minimal |
| Note: TOXIC HEPATOPATHY; GLOMERULONEPHRITIS | | | |
| Note: HEPATOCLR CARC TGLs = 1,2,3-1 | | | |
| Note: C O DEATH: HEPATOCELLULAR ADENOMAS, CARCINOMA; | | | |
| Note: HEPATOCLR ADEN TGLs = 1,2,3-1 | | | |
| Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 4-2 | | | |
| Lymph Node | | | |
| Note: MAND L N: NORMAL | | | |
| Skin | | Acanthosis | Minimal |
| | | Hyperkeratosis | Minimal |
| | | Parasite Metazoan | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7099

TRT#: 16

SEX: Female

DAY ON TEST: 537

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05077-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Polybrominated biphenyl mixture (Firemaster FF-1)
CAS Number: 67774-32-7

Date Report Requested: 10/19/2014

Time Report Requested: 22:34:02

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7100

TRT#: 16

SEX: Female

DAY ON TEST: 463

DOSE: 30 PPM 10-10

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Gallbladder | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lung |
| Lymph Node | Nose | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|---------------|------|
| Mammary Gland | Skin |
|---------------|------|

OBSERVATIONS

| | | |
|--|----------------------------------|----------------------|
| Kidney | Nephropathy | Chronic, Mild |
| Liver | Cytomegaly | Moderate |
| | Fatty Change | Minimal |
| | Hepatocellular Carcinoma | Multiple |
| | Necrosis | Coagulative, Minimal |
| Note: HEPATOCLR CARC TGLs = 1,2-1+7 | | |
| Note: C O DEATH: HEPATOCELLULAR CARCINOMAS; TOXIC HEPATOPATHY; | | |
| Lymph Node | | |
| Note: MAND L N: NORMAL | | |
| Spleen | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH -

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE