

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

Final 2 - Data Changes through 12-15-17 CDMA Core Rats Only

NTP Study Number:

C20105B

Lock Date:

12/29/2015

Cage Range:

ALL

Date Range:

ALL

Reasons For Removal:

25022 ACCK

25021 TSAC

25020 NATD

25019 MSAC

Removal Date Range:

ALL

Treatment Groups:

Include ALL

Study Gender:

Both

TDMSE Version:

3.0.2.3_002

PWG Approval Date:

NONE

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DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								ANIMAL ID	males (cont...)
	0642	0673	0699	0629	0665	0666	0658	0644	0655	0655	0666	0677	0666	0677	0644	0655	0655	0677	0677	0677	0655	0677	0677	0677		
0.0W/kg(CDMA)chr	0050	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0050		

Bilateral, Pheochromocytoma Benign	X																								
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic Carcinoma																									X
Parathyroid Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	I	+	+	+
Pituitary Gland Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland Pars Distalis, Adenoma	X											X	X	X								X			X X X
Thyroid Gland C-cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thyroid Gland C-cell, Carcinoma																									X X

GENERAL BODY SYSTEM

Tissue NOS Mediastinum, Schwannoma Malignant																								
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

GENITAL SYSTEM

Bulbourethral Gland																									
Ductus Deferens																									
Epididymis Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	DAY ON TEST																								ANIMAL ID	males (cont...)
	0 6 4 2	0 7 3 2	0 5 9 0	0 2 9 4	0 6 5 5	0 6 8 1	0 6 9 1	0 5 8 0	0 4 8 0	0 5 2 7	0 5 4 1	0 6 5 4	0 7 3 0	0 6 7 7	0 4 9 8	0 5 6 3	0 5 5 2	0 7 1 9	0 7 3 3	0 7 3 4	0 5 6 5	0 7 3 1	0 7 1 5	0 7 3 1		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0 5 0 1	males (cont...)	

Lymph Node, Mesenteric
Lymphoma Malignant

+ +

Spleen
Hemangiosarcoma
Lymphoma Malignant

+
X X

Thymus
Lymphoma Malignant

+ + + + + + + + + + + + + + | + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma
Lymphoma Malignant

+
X

Skin
Basal Cell Adenoma
Keratoacanthoma
Squamous Cell Papilloma
Sebaceous Gland, Adenoma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Lymphoma Malignant
Subcutaneous Tissue, Sarcoma

+
X X X X
X

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
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| HARLAN SPRAGUE DAWLEY RATS
MALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0642 | 0732 | 0590 | 0294 | 0665 | 0668 | 0569 | 0488 | 0040 | 0057 | 0051 | 0064 | 0075 | 0067 | 0074 | 0043 | 0098 | 0063 | 0055 | 0071 | 0073 | 0073 | 0056 | 0073 | | | 0071 |
| | 0050 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | |
| | 1500 | 2500 | 3500 | 4500 | 5500 | 6500 | 7500 | 8500 | 9500 | 0100 | 1100 | 2100 | 3100 | 4100 | 5100 | 6100 | 7100 | 8100 | 9100 | 0200 | 1200 | 2200 | 3200 | 4200 | 5200 | 6200 | 7200 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | M | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | + | M | + | M | I | + | + | + | + | I | + | + | + | + | I | + | + | I | + | + | + | + | + | + | + | + | + | |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0642 | 0732 | 0590 | 0294 | 0665 | 0668 | 0669 | 0589 | 0484 | 0552 | 0551 | 0447 | 0554 | 0733 | 0673 | 0448 | 0566 | 0552 | 0771 | 0773 | 0774 | 0575 | 0771 | 0773 | | |
| 0.0W/kg(CDMA)chr | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Retrolbulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oncocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
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M .. Missing tissue
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CAS Number: CELLPRADCDMA

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Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
0.0W/kg(CDMA)chr | DAY ON TEST | 071 | 073 | 075 | 077 | 076 | 077 | 076 | 075 | 075 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 076 | 077 | 076 | 075 | 075 | males
(cont...) |
| | ANIMAL ID | 00534 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Large, Colon
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Jejunum
Adenocarcinoma | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A |
| Liver
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | | | | | + | + | + | + | | | | | | | | | + | + | | | + | + | | + |
| Pancreas
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------------|
| | 071 | 073 | 075 | 077 | 076 | 077 | 076 | 075 | 075 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 076 | 077 | 076 | 075 | 075 | | |
| 0.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0055 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0055 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5555 | |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 3333 | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 0 | 4568 | |

Lymphoma Malignant
Sublingual Gland, Schwannoma Malignant, Metastatic, Uncertain Primary Site

Stomach, Forestomach
Lymphoma Malignant
Squamous Cell Papilloma

Stomach, Glandular
Lymphoma Malignant

CARDIOVASCULAR SYSTEM

Aorta

Blood Vessel

Heart
Lymphoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma

Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Benign, Multiple
Pheochromocytoma Complex
Pheochromocytoma Malignant

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MALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|-----------|--------------------|
| | 0
7
2
1 | 0
7
3
3 | 0
5
1
0 | 0
7
3
0 | 0
6
1
0 | 0
7
3
4 | 0
6
6
3 | 0
5
8
0 | 0
5
6
7 | 0
7
3
4 | 0
6
0
4 | 0
7
3
4 | 0
7
3
2 | 0
7
3
0 | 0
7
3
1 | 0
7
3
2 | 0
6
6
4 | 0
7
0
2 | 0
7
3
1 | 0
6
6
2 | 0
7
3
1 | 0
6
8
5 | 0
5
8
2 | 0
5
9
5 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0055 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0055 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5555 | | |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 3333 | | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 0 | 45689 | | |

Lymph Node, Mesenteric
Lymphoma Malignant

+ +

Spleen
Hemangiosarcoma
Lymphoma Malignant

+ +

Thymus
Lymphoma Malignant

+ +

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma
Lymphoma Malignant

I + + + + M + + + + + M + + + + + + + + M + + + +

Skin
Basal Cell Adenoma
Keratoacanthoma
Squamous Cell Papilloma
Sebaceous Gland, Adenoma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Lymphoma Malignant
Subcutaneous Tissue, Sarcoma

+
X
X
X
X
X
X
X
X

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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| HARLAN SPRAGUE DAWLEY RATS
MALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|--------------------|
| | 0
7
2
1 | 0
7
3
3 | 0
5
1
0 | 0
7
3
0 | 0
6
1
0 | 0
7
3
4 | 0
6
6
3 | 0
5
8
0 | 0
5
6
7 | 0
7
3
4 | 0
6
0
4 | 0
7
3
4 | 0
7
3
2 | 0
7
3
0 | 0
7
3
1 | 0
7
3
2 | 0
6
6
4 | 0
7
0
2 | 0
7
3
1 | 0
6
6
2 | 0
7
3
1 | 0
6
8
5 | 0
5
8
2 | 0
5
9
5 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
5
3
4 | males
(cont...) | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | X | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | M | + | + | + | + | + | + | I | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0721 | 0733 | 0751 | 0773 | 0761 | 0776 | 0755 | 0765 | 0755 | 0776 | 0767 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0776 | 0766 | 0776 | 0755 | 0755 | 0755 | | |
| 0.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00534 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | X | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | X | | |
| Lacrimal Gland | + | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Oncocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|
| | 062 | 073 | 063 | 073 | 075 | 064 | 072 | 065 | 066 | 064 | 066 | 061 | 022 | 066 | 073 | 066 | 066 | 057 | 066 | 055 | 068 | 071 | 073 | 073 | | |
| 0.0W/kg(CDMA)chr | 00561 | 00056 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 |

Lymphoma Malignant
Sublingual Gland, Schwannoma Malignant,
Metastatic, Uncertain Primary Site

X

Stomach, Forestomach
Lymphoma Malignant
Squamous Cell Papilloma

+
X
X

Stomach, Glandular
Lymphoma Malignant

+ + + + + + + + + + + A + + + + + + + + + + + + + +
X

CARDIOVASCULAR SYSTEM

Aorta

+ +

Blood Vessel

Heart

+ +

Lymphoma Malignant

X X

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma

+ +

Adrenal Medulla

Pheochromocytoma Benign
Pheochromocytoma Benign, Multiple
Pheochromocytoma Complex
Pheochromocytoma Malignant

+ + + M +
X X
X X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0662 | 0673 | 0663 | 0673 | 0675 | 0664 | 0672 | 0665 | 0666 | 0664 | 0661 | 0622 | 0666 | 0677 | 0666 | 0655 | 0666 | 0656 | 0665 | 0668 | 0671 | 0673 | 0673 | 0658 | | |
| 0.0W/kg(CDMA)chr | 0056 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Trigeminal Ganglion | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | M |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
0.0W/kg(CDMA)chr | DAY ON TEST | 0662 | 0733 | 0662 | 0775 | 0771 | 0672 | 0669 | 0664 | 0661 | 0262 | 0674 | 0772 | 0663 | 0667 | 0577 | 0664 | 0662 | 0567 | 0678 | 0771 | 0773 | 0770 | 0578 | males
(cont...) |
| | ANIMAL ID | 0056 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0059 | 0050 | 0051 | 0052 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0055 | 0056 | 0058 | 0059 | 0050 | 0051 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 | |

Renal Tubule, Adenoma, Multiple

Urinary Bladder
Lymphoma Malignant

+
 X

SYSTEMIC LESIONS

Multiple Organ
Lymphoma Malignant
Mesothelioma Malignant

+
 X X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE | | 2 | 6 | 5 | 7 | 5 | 6 | 7 | 6 | 6 | 5 | 6 | 4 | 6 | 7 | 6 | |
| | | 4 | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 2 | |
| | | 8 | 8 | 9 | 4 | 0 | 6 | 3 | 8 | 8 | 5 | 5 | 6 | 0 | 5 | 9 | |
| | 0.0W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 75 |
| Intestine Large, Colon | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Rectum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Small, Duodenum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Intestine Small, Ileum | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | 78 |
| Intestine Small, Jejunum | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | 73 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | 2 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | + | + | | + | | + | | + | | + | + | 39 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | X | | X | | | X | | | | | | | | | 13 |
| Adenoma, Multiple | | | | | | | | | | | | X | | | | | 5 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|-----------------|
| | 2 | 6 | 5 | 7 | 5 | 6 | 7 | 6 | 6 | 5 | 6 | 4 | 6 | 7 | 6 | 6 | 6 | | | |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 4 | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 0 | 2 | | | | |
| | 8 | 8 | 9 | 4 | 0 | 6 | 3 | 8 | 8 | 5 | 5 | 6 | 0 | 5 | 9 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0.0W/kg(CDMA)chr | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | | | | | |
| | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Sublingual Gland, Schwannoma Malignant,
Metastatic, Uncertain Primary Site | | | | | | | | | X | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 86 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | 1 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 2 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Adenoma | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 88 |
| Pheochromocytoma Benign | | | | | | X | | | | | | | | | | | | | | 8 |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Complex | | | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| | 2 | 6 | 5 | 7 | 5 | 6 | 7 | 6 | 6 | 5 | 6 | 4 | 6 | 7 | 6 | 4 | 6 | 6 |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 4 | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 2 | 9 | 9 | 9 |
| | 8 | 8 | 9 | 4 | 0 | 6 | 3 | 8 | 8 | 5 | 5 | 6 | 0 | 5 | 9 | 6 | 6 | 6 |
| 0.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | | | 5 |
| Carcinoma | | | | | | | | | | | | | | | | | | 8 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | | 83 |
| Adenoma | | | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | 17 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| C-cell, Adenoma | | X | | X | | | X | | | | | | | | | | | 8 |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | 2 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | 3 |
| Mediastinum, Schwannoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | |
| Bulbourethral Gland | | | | | | | | | | | | | | | | | + | 1 |
| Ductus Deferens | | | | | | | | | | | | | | | | | | 1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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CAS Number: CELLPRADCDMA

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 5 | 7 | 5 | 6 | 7 | 6 | 6 | 5 | 6 | 4 | 6 | 7 | 6 | 6 | 6 |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 4 | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 2 | 9 | 9 |
| | 8 | 8 | 9 | 4 | 0 | 6 | 3 | 8 | 8 | 5 | 5 | 6 | 0 | 5 | 9 | 9 | 9 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | |

Mesothelioma Malignant

X

2

Preputial Gland

+ + + + + + + + + + + + + + +

88

Lymphoma Malignant

1

Prostate

+ + + + + + + + + + + + + + +

90

Adenoma

2

Lymphoma Malignant

1

Seminal Vesicle

+ + + + + + + + + + + + + + +

90

Lymphoma Malignant

1

Testis

+ + + + + + + + + + + + + + +

90

Mesothelioma Malignant

X

2

Interstitial Cell, Adenoma

2

HEMATOPOIETIC SYSTEM

Bone Marrow

+ + + + + + + + + + + + + + +

90

Lymphoma Malignant

1

Lymph Node

+ + + + + + + + + + + + + + +

25

Bronchial, Lymphoma Malignant

1

Iliac, Lymphoma Malignant

1

Lumbar, Lymphoma Malignant

1

Mediastinal, Lymphoma Malignant

1

Lymph Node, Mandibular

+ + + + + + + + + + + + + + +

89

Lymphoma Malignant

1

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Species/Strain: RATS/HSD

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 5 | 7 | 5 | 6 | 7 | 6 | 6 | 5 | 6 | 4 | 6 | 7 | 6 | 4 | 6 | 6 |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 4 | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 2 | 9 | 9 | 9 |
| | 8 | 8 | 9 | 4 | 0 | 6 | 3 | 8 | 8 | 5 | 5 | 6 | 0 | 5 | 9 | 6 | 6 | 6 |
| 0.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 5 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1 |
| Spleen
Hemangiosarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
3
1 |
| Thymus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88
2 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Fibroadenoma
Lymphoma Malignant | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | 82
2
1 |
| Skin
Basal Cell Adenoma
Keratoacanthoma
Squamous Cell Papilloma
Sebaceous Gland, Adenoma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Lymphoma Malignant
Subcutaneous Tissue, Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1
5
2
1
2
1
2
1
2 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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CAS Number: CELLPRADCDMA

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
2
4
8 | 0
6
5
8 | 0
5
6
9 | 0
7
3
4 | 0
5
1
0 | 0
6
1
6 | 0
7
3
8 | 0
6
8
8 | 0
6
6
8 | 0
5
4
5 | 0
6
4
5 | 0
6
9
6 | 0
0
0
0 | 0
7
0
5 | 0
6
2
9 | |
| ANIMAL ID | 0
0
5
8
9 | 0
0
5
5
1 | 0
0
5
9
2 | 0
0
5
9
3 | 0
0
5
9
4 | 0
0
5
9
5 | 0
0
5
9
6 | 0
0
5
9
7 | 0
0
5
9
8 | 0
0
5
9
9 | 0
0
6
0
0 | 0
0
6
0
1 | 0
0
6
0
2 | 0
0
6
0
4 | 0
0
6
0
5 | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | 1 | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | I | + | + | + | + | 84 | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 75 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
2
4
8 | 0
6
5
8 | 0
5
6
9 | 0
7
3
4 | 0
5
1
0 | 0
6
1
6 | 0
7
3
3 | 0
6
8
8 | 0
6
4
8 | 0
5
5
5 | 0
6
4
5 | 0
6
9
6 | 0
7
0
0 | 0
6
0
5 | 0
6
2
9 | |
| ANIMAL ID | 0
0
5
8
9 | 0
0
5
9
1 | 0
0
5
9
2 | 0
0
5
9
3 | 0
0
5
9
4 | 0
0
5
9
5 | 0
0
5
9
6 | 0
0
5
9
7 | 0
0
5
9
8 | 0
0
5
9
9 | 0
0
6
9
0 | 0
0
6
9
1 | 0
0
6
0
2 | 0
0
6
0
4 | 0
0
6
0
5 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Alveolar/Bronchiolar Adenoma | | | | X | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 2 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | X | | | | | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| Eye | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 85 | |
| Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | X | | | | | | 2 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | X | | | | | | 2 | |
| Lacrimal Gland | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lipoma | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Oncocytoma Benign | | | | | | | | | | | | | | | 1 | |
| Bilateral, Renal Tubule, Adenoma, Multiple | | | | | | | | | | | | | | | 1 | |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0719 | 0730 | 0732 | 0734 | 0764 | 0774 | 0776 | 0765 | 0755 | 0755 | 0776 | 0766 | 0766 | 0766 | 0777 | 0777 | 0767 | 0777 | 0766 | 0777 | 0767 | 0777 | 0777 | males
(cont...) |
| | ANIMAL ID | 0134 | 0133 | 0133 | 0133 | 0113 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + |
| Intestine Small, Jejunum
Adenocarcinoma | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | A | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | X | | | | | | | | X | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | X | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
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| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-------------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|--|
| | 0719 | 07130 | 07133 | 07134 | 07164 | 07170 | 07173 | 07176 | 07187 | 07191 | 07193 | 07195 | 07197 | 07199 | 07201 | 07203 | 07205 | 07207 | 07209 | 07211 | 07213 | 07215 | | 07217 | 07219 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 9 | 7 | 5 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 9 | 3 | 3 | 2 | 3 | 3 | 3 | |
| | 9 | 0 | 0 | 2 | 4 | 4 | 0 | 4 | 7 | 1 | 3 | 0 | 4 | 4 | 4 | 5 | 1 | 2 | 3 | 3 | 7 | 0 | 4 | 0 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 3 | 4 | 5 | 6 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

Carcinoma
 Lymphoma Malignant
 Pheochromocytoma Malignant, Metastatic,
 Adrenal Medulla

X

Salivary Glands

+ +

Stomach, Forestomach

+ +

Stomach, Glandular

+ + + + + A + + + + + + + + + + + + A + + + + + + + +

CARDIOVASCULAR SYSTEM

Aorta

+ +

Blood Vessel

+

Heart

+ +

Endocardium, Schwannoma Malignant
 Myocardium, Schwannoma Malignant

X

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma

X

Carcinoma

X

Adrenal Medulla

+ +

Pheochromocytoma Benign

X

Pheochromocytoma Benign, Multiple

X

Pheochromocytoma Malignant

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|--|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
| | 0719 | 0730 | 0732 | 0733 | 0674 | 0774 | 0776 | 0667 | 0551 | 0553 | 0555 | 0774 | 0666 | 0666 | 0667 | 0777 | 0777 | 0666 | 0777 | 0666 | 0777 | 0666 | 0777 | 0666 | | | 0777 |
| 1.5W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0134 | | |
| Lymph Node, Mesenteric Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3343 | X | |
| Spleen Leukemia Mononuclear Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3343 | X | |
| Thymus Lymphoma Malignant | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3343 | X | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Fibroadenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 3343 | X | |
| Skin Basal Cell Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3343 | | |
| Skin Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | 3343 | | |
| Skin Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | 3343 | | |
| Skin Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | 3343 | | |
| Skin Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 3343 | | |
| Skin Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | 3343 | | |
| Skin Subcutaneous Tissue, Myxosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 3343 | | |
| Skin Subcutaneous Tissue, Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | | | 3343 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3343 | | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3343 | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|
| | 0719 | 0713 | 0713 | 0713 | 0713 | 0716 | 0717 | 0717 | 0716 | 0715 | 0715 | 0715 | 0717 | 0716 | 0716 | 0716 | 0717 | 0717 | 0716 | 0717 | | 0716 | 0717 | 0717 | 0717 | 0717 |
| ANIMAL ID | 0139 | 0113 | 0113 | 0113 | 0113 | 0116 | 0117 | 0117 | 0116 | 0115 | 0115 | 0115 | 0117 | 0116 | 0116 | 0116 | 0117 | 0117 | 0116 | 0117 | 0116 | 0117 | 0117 | 0117 | 0117 | 0117 |
| | 3343 | 3334 | 3334 | 3334 | 3334 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 |

Hemangioma

X

NERVOUS SYSTEM

Brain

+ +

Leukemia Mononuclear

Lymphoma Malignant

Schwannoma Malignant, Metastatic, Tissue Nos

Schwannoma Malignant, Metastatic, Uncertain Primary Site

X

Meninges, Granular Cell Tumor Malignant

Meninges, Lymphoma Malignant

X

Nerve Trigeminal

+ +

Peripheral Nerve, Sciatic

+ +

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

Leukemia Mononuclear

+ +

Spinal Cord, Lumbar

Leukemia Mononuclear

+ +

Spinal Cord, Thoracic

Leukemia Mononuclear

+ +

Trigeminal Ganglion

+ + + + + M + + + + + + + + + + + + + + + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|--|
| | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | 0719 | | 0719 | 0719 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | |
| | 1 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 9 | 7 | 5 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 9 | 3 | 3 | 2 | 3 | 3 | 3 | |
| | 9 | 0 | 2 | 4 | 4 | 0 | 4 | 7 | 1 | 3 | 0 | 4 | 4 | 4 | 5 | 1 | 2 | 3 | 3 | 7 | 0 | 4 | 0 | 7 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 3 | 4 | 5 | 6 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0732 | 0734 | 0674 | 0751 | 0664 | 0368 | 0664 | 0666 | 0772 | 0775 | 0773 | 0668 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0665 | 0572 | 0753 | 0552 | males
(cont...) |
| | ANIMAL ID | 01374 | 01375 | 01376 | 01377 | 01378 | 01379 | 01380 | 01381 | 01382 | 01383 | 01384 | 01385 | 01386 | 01387 | 01388 | 01389 | 01390 | 01391 | 01392 | 01393 | 01394 | 01395 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | + | + | A | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | A | |
| Intestine Large, Colon | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Intestine Large, Rectum | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | A | |
| Intestine Small, Duodenum | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |
| Intestine Small, Jejunum
Adenocarcinoma | + | + | A | + | A | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | + | A | + | + | A |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | X | | | | | | | | | | X | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | + | | | | | | | | | + | | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | X | | | | | | | | | X | X | | X | | | | | | | X | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
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0
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Carcinoma
Lymphoma Malignant
Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla

X

Salivary Glands

+ +

Stomach, Forestomach

+ +

Stomach, Glandular

+ + A +

CARDIOVASCULAR SYSTEM

Aorta

+ +

Blood Vessel

+ +

Heart

+ +

Endocardium, Schwannoma Malignant
Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma
Carcinoma

Adrenal Medulla

+ +

Pheochromocytoma Benign
Pheochromocytoma Benign, Multiple
Pheochromocytoma Malignant

X X + + + + X + + X X X + + + + + + + X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|--------------------|
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9 | 0
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4
0
1 | | |

Bilateral, Pheochromocytoma Benign

Islets, Pancreatic

Adenoma

Carcinoma

Lymphoma Malignant

Parathyroid Gland

Adenoma

Pituitary Gland

Schwannoma Malignant, Metastatic, Tissue Nos

Schwannoma Malignant, Metastatic, Uncertain Primary Site

Pars Distalis, Adenoma

Thyroid Gland

Bilateral, C-cell, Adenoma

C-cell, Adenoma

GENERAL BODY SYSTEM

Tissue NOS

Schwannoma Malignant

GENITAL SYSTEM

Bulbourethral Gland

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------|--------------------|
| | 0732 | 0734 | 0764 | 0771 | 0754 | 0766 | 0733 | 0766 | 0766 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0755 | 0777 | 0755 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | | | |

Coagulating Gland

Epididymis
Mesothelioma Malignant

Penis

Preputial Gland

Prostate

Seminal Vesicle

Testis
Mesothelioma Malignant
Interstitial Cell, Adenoma

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | X |

HEMATOPOIETIC SYSTEM

Bone Marrow
Leukemia Mononuclear
Lymphoma Malignant

Lymph Node
Mediastinal, Lymphoma Malignant
Pancreatic, Lymphoma Malignant

Lymph Node, Mandibular
Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0732 | 0734 | 0737 | 0741 | 0744 | 0746 | 0733 | 0736 | 0736 | 0736 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0736 | 0735 | 0737 | 0735 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 4 | 5 | 6 | 7 | 8 | 8 | 8 | 8 | 1 | 2 | 3 | 4 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 9 | 0 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Spleen
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Fibroadenoma | + | + | + | M | M | M | M | + | + | + | M | + | + | + | + | M | + | + | + | + | + | M | + | + | + | |
| Skin
Basal Cell Adenoma
Keratoacanthoma
Squamous Cell Papilloma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Hemangiosarcoma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Myxosarcoma
Subcutaneous Tissue, Neural Crest Tumor | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0732 | 0734 | 0734 | 0731 | 0742 | 0766 | 0736 | 0766 | 0766 | 0772 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0755 | 0777 | 0755 | | |
| 1.5W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13374 | males (cont...) |

Hemangioma

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | X | | | | | | | | | | X | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Malignant | | | X | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | X | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | X | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | X | | |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | I | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0732 | 0734 | 0734 | 0731 | 0742 | 0766 | 0736 | 0766 | 0766 | 0766 | 0772 | 0772 | 0773 | 0766 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0766 | 0755 | 0757 | 0755 | | |
| 1.5W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0695 | 0734 | 0517 | 0734 | 0771 | 0772 | 0774 | 0774 | 0774 | 0477 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0775 | 0573 | 0773 | 0777 | 0667 | 0777 | 0677 | 0777 | 0777 | 0931 | 0931 | 0199 |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | ANIMAL ID | 0140 | 0143 | 0145 | 0147 | 0148 | 0150 | 0151 | 0152 | 0153 | 0154 | 0155 | 0156 | 0157 | 0158 | 0159 | 0160 | 0161 | 0162 | 0163 | 0164 | 0165 | 0166 | 0167 | 0168 | 0169 | 0170 | 0171 | 0172 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | A | + | A | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | | | | |
| Intestine Large, Rectum | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | A | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | | | | |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | | | | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | X | | | | | X | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Mesentery | + | + | | | | | + | | | | | | | | | | | | | + | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Adenoma | X | X | | | | | X | | | | | | | X | | X | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE
1.5W/kg(CDMA)chr | ANIMAL ID | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | |
| | | 9 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 3 | 3 | 0 | 3 | 5 | 3 | 3 | 0 | 9 | 3 | 1 | 9 | 3 | 1 | 9 |
| | | 5 | 4 | 7 | 4 | 1 | 2 | 2 | 4 | 3 | 1 | 1 | 3 | 4 | 3 | 2 | 3 | 8 | 3 | 0 | 0 | 0 | 1 | 3 | 1 | 3 | 1 | 9 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 0 |
| | | 2 | 3 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | |

males
(cont...)

Carcinoma X
 Lymphoma Malignant
 Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Salivary Glands

Stomach, Forestomach

Stomach, Glandular

CARDIOVASCULAR SYSTEM

Aorta

Blood Vessel

Heart

Endocardium, Schwannoma Malignant
 Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex

Adenoma
 Carcinoma

Adrenal Medulla

Pheochromocytoma Benign
 Pheochromocytoma Benign, Multiple
 Pheochromocytoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
| | 0695 | 0734 | 0517 | 0734 | 0771 | 0777 | 0777 | 0777 | 0777 | 0777 | 0474 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0775 | 0573 | 0733 | 0770 | 0676 | 0777 | 0777 | | | 0777 |
| 1.5W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0140 | 0140 |

Bilateral, Pheochromocytoma Benign

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Adenoma | | X | | | | | | | | | | | X | | | | | | | | | | | | X | |
| Carcinoma | | | | X | | | | X | | | | | | | | | | X | | | X | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | X | X | | | | | | | | | X | | X | | | | | X | X | | X | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, C-cell, Adenoma | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | | | | | | | | | X | | | X | | | | | | | | | | X |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bulbourethral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|--|
| | 0695 | 0734 | 0751 | 0773 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 3 | 5 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

Coagulating Gland

+

Epididymis
Mesothelioma Malignant

+
X X

Penis

+

Preputial Gland

+ +

Prostate

+ +

Seminal Vesicle

+ +

Testis
Mesothelioma Malignant
Interstitial Cell, Adenoma

+
X

HEMATOPOIETIC SYSTEM

Bone Marrow
Leukemia Mononuclear
Lymphoma Malignant

+
X

Lymph Node
Mediastinal, Lymphoma Malignant
Pancreatic, Lymphoma Malignant

+
X X X

Lymph Node, Mandibular
Lymphoma Malignant

+
X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|---|---|--|
| | 0695 | 0734 | 0751 | 0773 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 3 | 5 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | | | | | | | | | | | 3 | 0 | |

Lymph Node, Mesenteric
Lymphoma Malignant

+
X

Spleen
Leukemia Mononuclear
Lymphoma Malignant

+
X

Thymus
Lymphoma Malignant

+ + + + + + + + + + + + + + + + + M + + + + + + + + + +
X

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma

M + M M +
X

Skin
Basal Cell Adenoma
Keratoacanthoma
Squamous Cell Papilloma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Hemangiosarcoma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Myxosarcoma
Subcutaneous Tissue, Neural Crest Tumor

+
X
X X
X X X
X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------|
| | 6
9
5 | 7
3
4 | 0
5
7 | 0
7
4 | 0
7
3 | 0
7
3 | 0
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3 | 0
7
3 | 0
7
3 | 0
7
3 | 0
7
3 | 0
7
3 | 0
4
9 | 0
7
3 | 0
7
3 | 0
7
3 | 0
7
3 | 0
6
8 | 0
7
3 | 0
5
0 | 0
7
3 | 0
7
3 | 0
6
1 | 0
7
3 | | 0
7
3 | 0
9
1 | 0
7
9 |
| | 0
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4
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2 | 0
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3 | 0
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5 | 0
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7 | 0
1
4
0
8 | 0
1
4
0
9 | 0
1
4
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0 | 0
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1 | |

Hemangioma

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | + | M | + | + | M | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------|
| <p>HARLAN SPRAGUE DAWLEY RATS MALE
1.5W/kg(CDMA)chr</p> | DAY ON TEST | 0695 | 0734 | 0517 | 0734 | 0772 | 0772 | 0774 | 0773 | 0773 | 0491 | 0773 | 0774 | 0773 | 0773 | 0678 | 0753 | 0773 | 0773 | 0676 | 0773 | 0771 | 0771 | 0779 | 0771 | 0779 | <p>males (cont...)</p> | |
| | ANIMAL ID | 0140 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | | 0144 |
| | | 2357 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | | 84 |

Schwannoma Malignant, Metastatic, Tissue Nos

X

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE | | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 4 | 4 | 6 | 5 | 7 | 5 | 5 |
| | | 3 | 3 | 3 | 3 | 6 | 0 | 6 | 1 | 6 | 4 | 0 | 1 | 9 | 1 | 8 | 8 |
| | | 0 | 2 | 0 | 0 | 3 | 5 | 8 | 0 | 2 | 7 | 4 | 5 | 7 | 7 | 2 | 2 |
| | 1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | 76 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 83 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 81 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 84 | |
| Intestine Small, Ileum | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | 76 | |
| Intestine Small, Jejunum | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | 73 | |
| Adenocarcinoma | | | | | | | | | | | | | | | | 1 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | 2 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 2 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 | |
| Mesentery | | | | | | | | + | | | | | + | + | + | 19 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 | |
| Oral Mucosa | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 | |
| Adenoma | | | | | | | X | | | | | X | | | | 16 | |
| Adenoma, Multiple | | | | | | | | | X | | | | | | | 6 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|--|
| | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 4 | 4 | 6 | 5 | 7 | 7 | 5 | 5 | | | |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 3 | 3 | 3 | 3 | 6 | 0 | 6 | 1 | 6 | 4 | 0 | 1 | 9 | 1 | 8 | | | | | |
| | 0 | 2 | 0 | 0 | 3 | 5 | 8 | 0 | 2 | 7 | 4 | 5 | 7 | 7 | 2 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| 1.5W/kg(CDMA)chr | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | | | |
| | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Carcinoma | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | 1 | |
| Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 86 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 | |
| Blood Vessel | | | | | | | | | + | | | | | | | | | | 2 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 | |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | 1 | |
| Myocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 | |
| Adenoma | | | X | | | X | | | | | | | | | | | | | 3 | |
| Carcinoma | | | | | | | | | | | | | | | | | | | 3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 | |
| Pheochromocytoma Benign | | X | X | | | | | | | | | | | | | | | | 17 | |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | 1 | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | 3 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
3
0 | 0
7
3
2 | 0
7
3
0 | 0
7
3
0 | 0
6
6
3 | 0
7
0
5 | 0
5
6
8 | 0
6
1
0 | 0
6
6
2 | 0
4
4
7 | 0
4
0
4 | 0
6
1
5 | 0
5
9
7 | 0
7
1
7 | 0
5
8
2 | |
| ANIMAL ID | 0
1
4
3
1 | 0
1
4
3
2 | 0
1
4
3
3 | 0
1
4
3
4 | 0
1
4
3
5 | 0
1
4
3
6 | 0
1
4
3
7 | 0
1
4
3
8 | 0
1
4
3
9 | 0
1
4
4
0 | 0
1
4
4
1 | 0
1
4
4
2 | 0
1
4
4
3 | 0
1
4
4
4 | 0
1
4
4
5 | |
| Bilateral, Pheochromocytoma Benign | X | | | | | | | | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 | |
| Adenoma | | | | | | | | | | | | | | | 11 | |
| Carcinoma | | | | X | | | | | | | | | | | 6 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Parathyroid Gland | + | + | + | + | M | + | M | + | + | + | + | + | + | + | 83 | |
| Adenoma | | | | | | | | | | | | | | | 1 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | 1 | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Adenoma | | X | | X | X | X | | X | | | | X | | | 25 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 | |
| Bilateral, C-cell, Adenoma | | | | | | | | | | | | | | | 2 | |
| C-cell, Adenoma | | | | | X | | | | | | | | | X | 12 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | 1 | |
| Schwannoma Malignant | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | |
| Bulbourethral Gland | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0730 | 0732 | 0733 | 0730 | 0663 | 0755 | 0678 | 0661 | 0662 | 0647 | 0644 | 0666 | 0597 | 0717 | 0582 | |
| ANIMAL ID | 01431 | 00114 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | |

| | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | | | | | | | | | | | | | | | | 2 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | 2 |
| Penis | | | | | | | | | | | | | | | | 4 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | 1 |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Lymph Node | | | | | | | | | | | | | | | | 23 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|----------|
| | 0
7
3
0 | 0
7
3
2 | 0
7
3
0 | 0
7
3
0 | 0
6
6
3 | 0
7
0
5 | 0
5
6
8 | 0
6
1
0 | 0
6
6
2 | 0
4
4
7 | 0
4
0
4 | 0
6
1
5 | 0
5
9
7 | 0
7
1
7 | 0
5
8
2 | |
| ANIMAL ID | 0
1
4
3
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2 | 0
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4 | 0
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6 | 0
1
4
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7 | 0
1
4
3
8 | 0
1
4
3
9 | 0
1
4
4
0 | 0
1
4
4
1 | 0
1
4
4
2 | 0
1
4
4
3 | 0
1
4
4
4 | 0
1
4
4
5 | |
| Lymph Node, Mesenteric
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89
2 | |
| Spleen
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
2
2 | |
| Thymus
Lymphoma Malignant | + | M | + | + | + | M | + | + | + | + | + | + | + | + | 85
2 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | |
| Mammary Gland
Fibroadenoma | + | + | + | + | + | M | + | + | + | + | M | + | + | + | 77
5 | |
| Skin
Basal Cell Adenoma
Keratoacanthoma
Squamous Cell Papilloma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Hemangiosarcoma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Myxosarcoma
Subcutaneous Tissue, Neural Crest Tumor | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1
4
1
11
1
5
2
1 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 4 | 4 | 6 | 5 | 7 | 5 | 7 | 5 |
| HARLAN SPRAGUE DAWLEY RATS MALE | 3 | 3 | 3 | 3 | 6 | 0 | 6 | 1 | 6 | 4 | 0 | 1 | 9 | 1 | 8 | | |
| | 0 | 2 | 0 | 0 | 3 | 5 | 8 | 0 | 2 | 7 | 4 | 5 | 7 | 7 | 2 | | |
| 1.5W/kg(CDMA)chr | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

Hemangioma

1

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | 1 |
| Meninges, Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Trigeminal Ganglion | M | M | + | + | + | I | M | + | + | M | + | + | + | + | + | + | 77 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 4 | 4 | 6 | 5 | 7 | 5 | 5 | |
| | 3 | 3 | 3 | 3 | 6 | 0 | 6 | 1 | 6 | 4 | 0 | 1 | 9 | 1 | 8 | 8 | |
| | 0 | 2 | 0 | 0 | 3 | 5 | 8 | 0 | 2 | 7 | 4 | 5 | 7 | 7 | 2 | 2 | |
| | 1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

Schwannoma Malignant, Metastatic, Tissue Nos

1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | 2 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | 1 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 4 | 4 | 6 | 5 | 7 | 5 | | |
| HARLAN SPRAGUE DAWLEY RATS | | 3 | 3 | 3 | 3 | 6 | 0 | 6 | 1 | 6 | 4 | 0 | 1 | 9 | 1 | 8 | | |
| MALE | | 0 | 2 | 0 | 0 | 3 | 5 | 8 | 0 | 2 | 7 | 4 | 5 | 7 | 7 | 2 | | |
| 1.5W/kg(CDMA)chr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| * TOTALS | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lipoma | | | | | | | | | | | | | | | | | 2 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 2 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0731 | 0733 | 0688 | 0720 | 0773 | 0613 | 0764 | 0773 | 0773 | 0593 | 0733 | 0773 | 0774 | 0774 | 0471 | 0679 | 0664 | 0731 | 0733 | 0733 | 0771 | 0777 | 0777 |
| | ANIMAL ID | 0151 | 0152 | 0153 | 0154 | 0155 | 0156 | 0157 | 0158 | 0159 | 0160 | 0161 | 0162 | 0163 | 0164 | 0165 | 0166 | 0167 | 0168 | 0169 | 0170 | 0171 | 0172 | 0173 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | A | + | A | + | + | + | A | + | + | + | + | A | + | A | + | + | + | + | A | + |
| Intestine Large, Colon | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | A | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | A | + | |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Adenocarcinoma | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Osteosarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | A | + | |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | A | + | A | + | + | + | + | A | + |
| Liver | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hepatocellular Adenoma | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Mesentery | | | | | | + | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | + | | | | | + | + | + | + | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
7
3
1 | 0
7
3
3 | 0
6
8
8 | 0
7
2
0 | 0
7
3
2 | 0
6
1
0 | 0
7
3
3 | 0
6
4
2 | 0
7
3
0 | 0
7
3
4 | 0
7
3
3 | 0
5
9
2 | 0
7
3
0 | 0
7
3
7 | 0
7
3
4 | 0
4
3
1 | 0
7
3
7 | 0
6
1
9 | 0
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|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | X | | | | X | | | X | X | | X | X | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | | X | | | | | | | | | | | | | | | | X |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Parotid Gland, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|------|------|
| | 0731 | 0733 | 0738 | 0732 | 0733 | 0731 | 0733 | 0734 | 0733 | 0730 | 0734 | 0732 | 0733 | 0733 | 0739 | 0733 | 0733 | 0737 | 0731 | 0736 | | | 0736 | 0737 | 0733 | 0733 | 0733 | 0733 | 0733 | 0737 | 0737 |
| | 0151 | 0115 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |

Myocardium, Schwannoma Malignant
Pericardium, Schwannoma Malignant,
Metastatic, Thymus

X

X

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pheochromocytoma Benign | X | | | | | | | | | | | X | | | | | | | | | | | | X | | | | | | | X |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | X | | | | | X | X | | | | | | X | | X | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | | X | | X | X | X | | | | | | | | | | | | X | | | | X | X | X | X | X | X | X | |
| Pars Distalis, Adenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
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Bilateral, C-cell, Carcinoma
C-cell, Adenoma
C-cell, Carcinoma

X X X X X

GENERAL BODY SYSTEM

Tissue NOS
Mediastinum, Chemodectoma Benign

+

GENITAL SYSTEM

Coagulating Gland
Ductus Deferens
Leiomyoma
Epididymis
Mesothelioma Malignant
Penis
Preputial Gland
Prostate
Adenoma
Lymphoma Malignant
Seminal Vesicle
Lymphoma Malignant
Testis

+

+

+

+

+

+

+

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
 MALE
3.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 8 | 2 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 7 | 3 | 1 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1 | 3 | 3 | 8 | 0 | 2 | 0 | 3 | 2 | 0 | 4 | 2 | 2 | 0 | 7 | 4 | 4 | 1 | 7 | 9 | 4 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 1 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |

males
(cont...)

Hemangioma
Mesothelioma Malignant
Interstitial Cell, Adenoma

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | + | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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Schwannoma Malignant

X

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma

M + + + M + + M + + X M + + + + + + + + + + + + + + + +

Skin
Keratoacanthoma
Squamous Cell Carcinoma
Squamous Cell Papilloma

+ +

Conjunctiva, Sarcoma
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Fibroma, Multiple
Subcutaneous Tissue, Fibrosarcoma
Subcutaneous Tissue, Hibernoma
Subcutaneous Tissue, Lipoma
Subcutaneous Tissue, Lymphoma Malignant
Subcutaneous Tissue, Myxosarcoma, Multiple

X
X
X
X
X
X
X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Bone, Vertebra

Skeletal Muscle
Hemangiosarcoma

+
X

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0731 | 0733 | 0738 | 0722 | 0731 | 0733 | 0734 | 0732 | 0730 | 0734 | 0732 | 0732 | 0739 | 0733 | 0733 | 0734 | 0741 | 0737 | 0736 | 0736 | 0737 | 0733 | 0733 | 0732 | | |
| 3.0W/kg(CDMA)chr | 0155 | 0115 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Meningioma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
1 | 0
7
3
3 | 0
6
8
8 | 0
7
2
0 | 0
7
3
2 | 0
6
1
0 | 0
7
3
3 | 0
6
4
2 | 0
7
3
0 | 0
7
3
4 | 0
7
3
2 | 0
7
3
3 | 0
5
9
3 | 0
7
3
3 | 0
7
3
3 | 0
7
3
4 | 0
4
1
1 | 0
7
3
7 | 0
6
1
9 | 0
6
6
4 | 0
7
3
1 | 0
7
3
3 | | 0
7
3
3 | 0
7
3
2 | 0
7
3
1 |
| | 0
1
5
5
1 | 0
1
5
5
2 | 0
1
5
5
3 | 0
1
5
5
4 | 0
1
5
5
5 | 0
1
5
5
6 | 0
1
5
5
7 | 0
1
5
5
9 | 0
1
5
6
0 | 0
1
5
6
1 | 0
1
5
6
2 | 0
1
5
6
3 | 0
1
5
6
4 | 0
1
5
6
5 | 0
1
5
6
6 | 0
1
5
6
7 | 0
1
5
7
9 | 0
1
5
7
0 | 0
1
5
7
1 | 0
1
5
7
2 | 0
1
5
7
3 | 0
1
5
7
4 | 0
1
5
7
5 | 0
1
5
7
6 | 0
1
5
7
7 | 0
1
5
7
8 |

Alveolar/Bronchiolar Carcinoma X
 Carcinoma, Metastatic, Thyroid Gland
 Leukemia Mononuclear X
 Lymphoma Malignant X
 Pheochromocytoma Malignant, Metastatic, Adrenal Medulla X
 Schwannoma Malignant, Metastatic, Thymus X

Nose +
 Lymphoma Malignant X

Trachea +

SPECIAL SENSES SYSTEM

Eye + + + + + A + + + + + + + + + + + + A + + + + A +

Harderian Gland +

Lacrimal Gland

Zymbal's Gland Adenoma

URINARY SYSTEM

Kidney +

Lipoma
 Liposarcoma
 Lymphoma Malignant X
 Bilateral, Renal Tubule, Adenoma

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0731 | 0733 | 0688 | 0722 | 0770 | 0673 | 0764 | 0773 | 0773 | 0572 | 0772 | 0773 | 0773 | 0773 | 0471 | 0769 | 0664 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | males
(cont...) | |
| | ANIMAL ID | 0151 | 0152 | 0153 | 0154 | 0155 | 0156 | 0157 | 0158 | 0159 | 0160 | 0161 | 0162 | 0163 | 0164 | 0165 | 0166 | 0167 | 0168 | 0169 | 0170 | 0171 | 0172 | 0173 | | 0174 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

Bilateral, Renal Tubule, Carcinoma

Urinary Bladder

Leukemia Mononuclear

Lymphoma Malignant

+ + + + + A + + + + + + + + + + + A + + + + + +

X

SYSTEMIC LESIONS

Multiple Organ

Leukemia Mononuclear

Lymphoma Malignant

Mesothelioma Malignant

+ +

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | ANIMAL ID | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| | | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 |
| | | 1 | 3 | 3 | 1 | 5 | 0 | 0 | 2 | 2 | 3 | 4 | 3 | 0 | 6 | 7 | 4 | 4 | 2 | 0 | 7 | 3 | 7 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 |
| | | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 9 | 0 | 2 | 4 |

males (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + + + + A + + + + + + + + + + + + A + + + + + + A + A | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + + + + A + + + + + + + + + + + + A + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + + + + A + + + + + + + + + + + + A + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum
Adenocarcinoma
Lymphoma Malignant
Osteosarcoma | + + + + A + | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + + + + A + + + + + + + + + + + + A + + + + + + A + + | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + + + + A + + + + + + + + + + + + A + + + + + + + + + A | | | | | | | | | | | | | | | | | | | | | | |
| Liver
Hepatocellular Adenoma
Hepatocellular Carcinoma
Leukemia Mononuclear
Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery
Mesothelioma Malignant | + + + | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa
Squamous Cell Carcinoma | + X | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | |
| | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 1 | 3 | 9 | |
| | 1 | 3 | 3 | 1 | 5 | 0 | 0 | 2 | 2 | 3 | 4 | 3 | 0 | 6 | 7 | 4 | 4 | 2 | 0 | 7 | 3 | 7 | 3 | 4 | 4 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 9 | 0 | 2 | 4 | 5 | 8 | 8 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | X | | X | | | | | X | | | | | | | | X | | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 |
| HARLAN SPRAGUE DAWLEY RATS MALE | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 1 | 3 | 9 |
| 3.0W/kg(CDMA)chr | 1 | 3 | 3 | 1 | 5 | 0 | 0 | 2 | 2 | 3 | 4 | 3 | 0 | 6 | 7 | 4 | 4 | 2 | 0 | 7 | 3 | 7 | 3 | 4 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 9 | 0 | 2 | 4 | 5 | 8 | |

males
(cont...)

Myocardium, Schwannoma Malignant
Pericardium, Schwannoma Malignant,
Metastatic, Thymus

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | X | | | | | X | | | | | X | X | | | | | X | | | | | | |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | X | | | | | | X | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + |
| Adenoma | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | X | X | | X | | | X | | | | X | | | | | X | | | X | | | X | X | |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0731 | 0733 | 0731 | 0735 | 0730 | 0733 | 0732 | 0732 | 0733 | 0734 | 0733 | 0730 | 0736 | 0737 | 0734 | 0734 | 0732 | 0730 | 0737 | 0733 | 0737 | 0731 | 0733 | 0739 | 0734 | males
(cont...) |
| | ANIMAL ID | 0158 | 0115 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | |

Bilateral, C-cell, Carcinoma
 C-cell, Adenoma
 C-cell, Carcinoma

X X X X X

GENERAL BODY SYSTEM

Tissue NOS
 Mediastinum, Chemodectoma Benign

GENITAL SYSTEM

Coagulating Gland

+ +

Ductus Deferens
 Leiomyoma

+
X

Epididymis
 Mesothelioma Malignant

+
X

Penis

Preputial Gland

+ + + + + + + + + M + + + + + + + + + + + + + +

Prostate
 Adenoma
 Lymphoma Malignant

+ +

Seminal Vesicle
 Lymphoma Malignant

+ +

Testis

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | 3.0W/kg(CDMA)chr | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | |
| | | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 1 | 3 |
| | | 1 | 3 | 3 | 1 | 5 | 0 | 0 | 2 | 2 | 3 | 4 | 3 | 0 | 6 | 7 | 4 | 4 | 2 | 0 | 7 | 3 | 7 | 1 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 9 | 0 | 2 | 4 | 5 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | |

Hemangioma

Mesothelioma Malignant

Interstitial Cell, Adenoma

X

X

X

HEMATOPOIETIC SYSTEM

Bone Marrow

Leukemia Mononuclear

Lymphoma Malignant

Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | X | | X | | | | | | | | | | |
| | | | | | | | | | | | | | | X | | | | | | | | | |

Lymph Node

Mediastinal, Leukemia Mononuclear

Mediastinal, Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|---|--|--|--|---|--|--|--|---|--|---|--|--|--|--|---|--|--|---|
| | | | | | + | | | | + | | | | + | | + | | | | | + | | | + |
| | | | | | | | | | | | | | X | | | | | | | | | | |

Lymph Node, Mandibular

Leukemia Mononuclear

Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | X | | | | | | | | | | |

Lymph Node, Mesenteric

Leukemia Mononuclear

Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | X | | | | | | | | | | |

Spleen

Leukemia Mononuclear

Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | X | | X | | | | | | | | | |

Thymus

Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 20105 - 56

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Route: Whole Body Exposure

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CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 |
| | | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 1 | 3 |
| | ANIMAL ID | 1 | 3 | 1 | 1 | 5 | 0 | 0 | 2 | 2 | 3 | 4 | 3 | 0 | 6 | 7 | 4 | 4 | 2 | 0 | 7 | 3 | 7 | 1 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 9 | 0 | 2 | 4 | 5 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |

Schwannoma Malignant

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | M | I | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | |
| Fibroadenoma | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma | X | | | | | | | | | | | | | | | | | X | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conjunctiva, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | X | | X | | | | | | | | | | | | | X | |
| Subcutaneous Tissue, Fibroma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Hibernoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | X | | | | | X | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Myxosarcoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bone, Vertebra | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
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7
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1 | 0
6
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4 | |
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Meningioma Benign | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Malignant | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Adenoma | + | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|---|---|
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| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 9 | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 8 | 8 |

Alveolar/Bronchiolar Carcinoma
 Carcinoma, Metastatic, Thyroid Gland
 Leukemia Mononuclear
 Lymphoma Malignant
 Pheochromocytoma Malignant, Metastatic,
 Adrenal Medulla
 Schwannoma Malignant, Metastatic, Thymus

X

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liposarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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Lab: IIT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| ANIMAL ID | | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | | 6 |
| Bilateral, Renal Tubule, Carcinoma | | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 8 | 3 | 9 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 1 | 3 | 9 | 4 |
| Urinary Bladder | | 1 | 1 | 1 | 1 | 5 | 0 | 0 | 2 | 2 | 3 | 4 | 3 | 0 | 6 | 7 | 4 | 4 | 2 | 0 | 7 | 3 | 7 | 1 | 3 | 4 | |
| Leukemia Mononuclear | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| Lymphoma Malignant | | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 7 | 9 | 0 | 2 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | X | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | X | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | 04 | 07 | 06 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 06 | 07 | 05 | 07 | 03 | 07 | 07 | 07 | 07 | males
(cont...) |
| | ANIMAL ID | 95 | 33 | 98 | 28 | 31 | 37 | 47 | 34 | 32 | 34 | 01 | 41 | 46 | 22 | 52 | 42 | 84 | 31 | 77 | 13 | 17 | 33 | 32 | 44 | |
| | | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | |
| | | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | |
| | | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | |
| | | 90 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 23 | 24 | 25 | 28 | 29 | 30 | 31 | 33 | 35 | 36 | 37 | 38 | 39 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + |
| Intestine Large, Rectum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + |
| Intestine Small, Duodenum
Adenocarcinoma
Lymphoma Malignant
Osteosarcoma | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | A | A | + | + | + |
| Intestine Small, Jejunum | A | + | A | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | A | A | + | + | + |
| Liver
Hepatocellular Adenoma
Hepatocellular Carcinoma
Leukemia Mononuclear
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Mesothelioma Malignant | | | | | | | | | | | | | + | | + | | + | | | | + | + | | |
| Oral Mucosa
Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
4
9
5 | 0
7
3
3 | 0
6
9
8 | 0
7
2
8 | 0
7
3
1 | 0
7
3
7 | 0
6
4
7 | 0
7
3
4 | 0
7
3
2 | 0
7
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4 | 0
7
3
0 | 0
7
3
1 | 0
6
1
4 | 0
7
2
6 | 0
6
5
2 | 0
6
4
2 | 0
6
8
4 | 0
7
3
1 | 0
7
1
3 | 0
3
1
7 | | | 0
7
1
7 | 0
7
3
3 | 0
7
3
2 |
| | 0
1
6
0
9 | 0
1
6
1
0 | 0
1
6
1
1 | 0
1
6
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2 | 0
1
6
1
4 | 0
1
6
1
5 | 0
1
6
1
6 | 0
1
6
1
7 | 0
1
6
1
8 | 0
1
6
1
9 | 0
1
6
2
0 | 0
1
6
2
2 | 0
1
6
2
3 | 0
1
6
2
4 | 0
1
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5 | 0
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2
8 | 0
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9 | 0
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5 | 0
1
6
3
6 | 0
1
6
3
7 | 0
1
6
3
8 | 0
1
6
3
9 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | X | | X | X | | | | X | | |
| Adenoma, Multiple | | | | | | | | X | | | | | | X | | X | | | | | | | | X | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|
| | 04 | 07 | 06 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 06 | 07 | 05 | 07 | 03 | 07 | 07 | 07 | 07 | | |
| | 95 | 33 | 98 | 28 | 31 | 37 | 47 | 34 | 32 | 34 | 00 | 01 | 04 | 06 | 02 | 02 | 04 | 01 | 07 | 03 | 07 | 03 | 02 | 04 | 0116609 | |
| | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 0116609 | |

Myocardium, Schwannoma Malignant
 Pericardium, Schwannoma Malignant,
 Metastatic, Thymus

X X

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | X | X | | | | | | X | X | | | X | X | | | | | |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|
| | 0495 | 0733 | 0698 | 0728 | 0731 | 0737 | 0674 | 0734 | 0732 | 0734 | 0730 | 0731 | 0674 | 0734 | 0672 | 0662 | 0662 | 0664 | 0671 | 0573 | 0771 | 0377 | | 0733 | 0732 | 0734 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 5 | 6 | 7 | 8 | 9 | |

Bilateral, C-cell, Carcinoma
 C-cell, Adenoma
 C-cell, Carcinoma

X X X X

GENERAL BODY SYSTEM

Tissue NOS
 Mediastinum, Chemodectoma Benign

+

GENITAL SYSTEM

Coagulating Gland

Ductus Deferens
 Leiomyoma

Epididymis
 Mesothelioma Malignant

+
 X X

Penis

+

Preputial Gland

+ +

Prostate
 Adenoma
 Lymphoma Malignant

+ +

Seminal Vesicle
 Lymphoma Malignant

+ +

Testis

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0
4
9
5 | 0
7
3
3 | 0
6
9
8 | 0
7
2
8 | 0
7
3
1 | 0
7
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7 | 0
6
3
4 | 0
7
3
2 | 0
7
3
4 | 0
7
3
0 | 0
7
3
1 | 0
6
1
4 | 0
7
2
6 | 0
6
5
2 | 0
6
4
2 | 0
6
8
4 | 0
3
7
1 | 0
7
1
3 | 0
3
1
7 | 0
7
3
7 | 0
7
3
3 | 0
7
3
2 | 0
7
3
4 | |
| | ANIMAL ID | 0
1
6
0
9 | 0
1
6
1
0 | 0
1
6
1
1 | 0
1
6
1
1 | 0
1
6
1
1 | 0
1
6
1
1 | 0
1
6
1
1 | 0
1
6
1
1 | 0
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6
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6
2
2 | 0
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6
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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9 | 0
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3
5 | 0
1
6
3
6 | 0
1
6
3
7 | 0
1
6
3
8 | 0
1
6
3
9 |
| | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

Hemangioma
Mesothelioma Malignant
Interstitial Cell, Adenoma

X X

HEMATOPOIETIC SYSTEM

| | |
|--|---|
| Bone Marrow | + |
| Leukemia Mononuclear | |
| Lymphoma Malignant | |
| Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla | |
| Lymph Node | |
| Mediastinal, Leukemia Mononuclear | + + + + + |
| Mediastinal, Lymphoma Malignant | |
| Lymph Node, Mandibular | + |
| Leukemia Mononuclear | |
| Lymphoma Malignant | |
| Lymph Node, Mesenteric | + A + + + |
| Leukemia Mononuclear | |
| Lymphoma Malignant | |
| Spleen | + |
| Leukemia Mononuclear | |
| Lymphoma Malignant | |
| Thymus | + M + + + |
| Lymphoma Malignant | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE

3.0W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 4 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 5 | 7 | 3 | 7 | 7 | 7 | 7 | 3 | 3 |
| | | 9 | 3 | 9 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 5 | 4 | 8 | 3 | 7 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 4 |
| | | 5 | 3 | 8 | 8 | 1 | 7 | 7 | 4 | 2 | 4 | 0 | 1 | 4 | 6 | 2 | 2 | 4 | 1 | 7 | 3 | 7 | 3 | 2 | 4 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 3 | 5 | 6 | 7 | 8 | 9 |

males
(cont...)

Schwannoma Malignant

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Fibroadenoma | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Conjunctiva, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | X | | | | X | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Subcutaneous Tissue, Hibernoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Myxosarcoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bone, Vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Skeletal Muscle
Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|
| | 04 | 07 | 06 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 06 | 07 | 05 | 07 | 03 | 07 | 07 | 07 | 07 | | |
| | 9 | 3 | 9 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 1 | 2 | 5 | 4 | 8 | 3 | 7 | 1 | 1 | 1 | 3 | 3 | 3 | | |
| | 5 | 3 | 8 | 8 | 1 | 7 | 7 | 4 | 2 | 4 | 0 | 1 | 4 | 6 | 2 | 2 | 4 | 1 | 7 | 3 | 7 | 3 | 2 | 4 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 5 | 6 | 9 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Meningioma Benign | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | X | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | I | + | + | + | I | + | M | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

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CAS Number: CELLPRADCDMA

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| HARLAN SPRAGUE DAWLEY RATS MALE
3.0W/kg(CDMA)chr | | 4 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 5 | 7 | 3 | 7 | 7 | 7 | 7 | | |
| | | 9 | 3 | 9 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 1 | 2 | 5 | 4 | 8 | 3 | 7 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | | |
| | ANIMAL ID | 5 | 3 | 8 | 8 | 1 | 7 | 7 | 4 | 2 | 4 | 0 | 1 | 4 | 6 | 2 | 2 | 4 | 1 | 7 | 3 | 7 | 3 | 2 | 4 | 4 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 3 | 5 | 7 | 8 | | |

Alveolar/Bronchiolar Carcinoma
 Carcinoma, Metastatic, Thyroid Gland
 Leukemia Mononuclear
 Lymphoma Malignant
 Pheochromocytoma Malignant, Metastatic, Adrenal Medulla
 Schwannoma Malignant, Metastatic, Thymus

X

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liposarcoma | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|----|
| | 04 | 07 | 06 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 06 | 07 | 05 | 07 | 03 | 07 | 07 | 07 | | | 07 |
| 95 | 3 | 3 | 9 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 5 | 4 | 8 | 3 | 7 | 1 | 1 | 3 | 3 | 3 | 4 | 01609 | |
| | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01609 | |

Bilateral, Renal Tubule, Carcinoma

Urinary Bladder

Leukemia Mononuclear

Lymphoma Malignant

+ A + + + +

SYSTEMIC LESIONS

Multiple Organ

Leukemia Mononuclear

Lymphoma Malignant

Mesothelioma Malignant

+ +

X

X

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 3 | 8 | 9 | 9 | 9 |
| | | 3 | 2 | 2 | 3 | 0 | 1 | 4 | 0 | 4 | 6 | 3 | 2 | 1 | 4 | 7 | 7 | 7 |
| 3.0W/kg(CDMA)chr | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | | | 74 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | | | 82 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | | | 83 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Osteosarcoma | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | | | 77 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | | | 75 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | 4 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | 3 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | + | + | | | | | + | | | | 17 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| | 0
7
3
3 | 0
7
3
2 | 0
7
3
2 | 0
7
3
3 | 0
7
3
0 | 0
7
3
1 | 0
7
3
4 | 0
7
3
0 | 0
7
3
4 | 0
7
3
6 | 0
7
3
2 | 0
7
3
3 | 0
7
3
1 | 0
7
3
4 | 0
7
3
6 | | 0
7
3
9 |
| ANIMAL ID | 0
1
6
4
0 | 0
1
6
4
1 | 0
1
6
4
2 | 0
1
6
4
3 | 0
1
6
4
4 | 0
1
6
4
4 | 0
1
6
4
5 | 0
1
6
4
6 | 0
1
6
4
8 | 0
1
6
4
9 | 0
1
6
5
0 | 0
1
6
5
1 | 0
1
6
5
2 | 0
1
6
5
3 | 0
1
6
5
4 | 0
1
6
5
5 | |

| | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | 87 |
| Adenoma | X | X | | | X | | | X | | | | X | | | | 19 |
| Adenoma, Multiple | | | | | X | | | | | | | | | | | 7 |
| Carcinoma | | | | | | | | | | | | | | | | 2 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Parotid Gland, Adenoma | | | | | | | | | X | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | 85 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Blood Vessel | | | | | | | | | | | | | | | | 1 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 3 | 8 | 9 | 9 | 9 |
| | | 3 | 2 | 2 | 3 | 0 | 1 | 4 | 0 | 4 | 6 | 3 | 2 | 1 | 4 | 7 | 7 | 7 |
| | 3.0W/kg(CDMA)chr | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | | |

Myocardium, Schwannoma Malignant

3

Pericardium, Schwannoma Malignant,
Metastatic, Thymus

1

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | 3 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pheochromocytoma Benign | | | | | | X | | | | X | | | | | | | | 19 |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | 2 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | 3 |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | | | 87 |
| Adenoma | | | | | | X | X | | | X | | | | | | | | 7 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | 13 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | + | + | + | M | M | M | + | + | + | + | + | I | + | | | 83 |
| Adenoma | | | | | | | | | | | | | | | | | | 2 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pars Distalis, Adenoma | X | | X | X | | | | | X | X | | | | | | | X | 33 |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
3 | 0
7
3
2 | 0
7
3
2 | 0
7
3
3 | 0
7
3
0 | 0
7
3
1 | 0
7
3
4 | 0
7
3
0 | 0
7
3
4 | 0
7
3
6 | 0
7
3
3 | 0
6
2
2 | 0
7
3
1 | 0
6
8
4 | 0
6
9
7 | |
| ANIMAL ID | 0
1
6
4
0 | 0
1
6
4
1 | 0
1
6
4
2 | 0
1
6
4
3 | 0
1
6
4
4 | 0
1
6
4
4 | 0
1
6
4
5 | 0
1
6
4
6 | 0
1
6
4
8 | 0
1
6
4
9 | 0
1
6
5
0 | 0
1
6
5
1 | 0
1
6
5
2 | 0
1
6
5
3 | 0
1
6
5
4 | 0
1
6
5
5 |

| | | |
|------------------------------|---|----|
| Bilateral, C-cell, Carcinoma | X | 1 |
| C-cell, Adenoma | X | 14 |
| C-cell, Carcinoma | X | 1 |

GENERAL BODY SYSTEM

| | | |
|----------------------------------|---|---|
| Tissue NOS | + | 3 |
| Mediastinum, Chemodectoma Benign | X | 1 |

GENITAL SYSTEM

| | | |
|------------------------|-----------------------------|----|
| Coagulating Gland | | 3 |
| Ductus Deferens | | 1 |
| Leiomyoma | | 1 |
| Epididymis | + + + + + + + + + + + + + + | 90 |
| Mesothelioma Malignant | | 3 |
| Penis | | 2 |
| Preputial Gland | + + + + + + + + + + + + + + | 89 |
| Prostate | + + + + + + + + + + + + + + | 90 |
| Adenoma | X | 2 |
| Lymphoma Malignant | | 1 |
| Seminal Vesicle | + + + + + + + + + + + + + + | 90 |
| Lymphoma Malignant | | 1 |
| Testis | + + + + + + + + + + + + + + | 90 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

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CAS Number: CELLPRADCDMA

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 3 | 8 | 9 | 9 |
| | 3.0W/kg(CDMA)chr | 3 | 2 | 2 | 3 | 0 | 1 | 4 | 0 | 4 | 6 | 3 | 2 | 1 | 4 | 7 | 7 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | |

| | |
|----------------------------|---|
| Hemangioma | 1 |
| Mesothelioma Malignant | 3 |
| Interstitial Cell, Adenoma | 1 |

HEMATOPOIETIC SYSTEM

| | | |
|---|-------------------------------|----|
| Bone Marrow | + + + + + + + + + + + + + + + | 90 |
| Leukemia Mononuclear | X | 4 |
| Lymphoma Malignant | | 1 |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | 1 |
| Lymph Node | + + + + + + + + | 24 |
| Mediastinal, Leukemia Mononuclear | | 1 |
| Mediastinal, Lymphoma Malignant | | 1 |
| Lymph Node, Mandibular | + + + + + + + + + + + + + + + | 90 |
| Leukemia Mononuclear | | 2 |
| Lymphoma Malignant | | 1 |
| Lymph Node, Mesenteric | + + + + + + + + + + + + + + + | 88 |
| Leukemia Mononuclear | | 2 |
| Lymphoma Malignant | | 1 |
| Spleen | + + + + + + + + + + + + + + + | 90 |
| Leukemia Mononuclear | X | 4 |
| Lymphoma Malignant | | 1 |
| Thymus | + + + + + + + + + + + + + + + | 87 |
| Lymphoma Malignant | | 1 |

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 + .. Tissue examined microscopically
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Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 3 | 8 | 9 | 9 | 9 |
| | | 3 | 2 | 2 | 3 | 0 | 1 | 4 | 0 | 4 | 6 | 3 | 2 | 1 | 4 | 7 | | |
| | 3.0W/kg(CDMA)chr | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | | |

Schwannoma Malignant

1

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Fibroadenoma | | | | | | | | | | | | | | | | | | 2 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Keratoacanthoma | | X | | | | X | | | | | | | | | | | | 5 |
| Squamous Cell Carcinoma | | | | | | X | | | | X | | | | | | | | 3 |
| Squamous Cell Papilloma | | | | | | | | | | X | | | | | | | | 3 |
| Conjunctiva, Sarcoma | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | | | | X | | | | | | | | | | | | | | 6 |
| Subcutaneous Tissue, Fibroma, Multiple | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Hibernoma | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | X | | X | | | | | | | 4 |
| Subcutaneous Tissue, Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Myxosarcoma, Multiple | | | | | | | | | | | | | | | X | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Bone, Vertebra | | | | | | | | | | | | | | | | | | 1 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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 BLANK .. Not examined microscopically

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MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0733 | 0732 | 0733 | 0730 | 0731 | 0734 | 0730 | 0734 | 0736 | 0733 | 0732 | 0731 | 0734 | 0736 | 0737 | |
| ANIMAL ID | 01640 | 01641 | 01642 | 01643 | 01644 | 01645 | 01646 | 01647 | 01648 | 01649 | 01650 | 01651 | 01652 | 01653 | 01654 | 01655 |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | 4 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Meningioma Benign | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | 1 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 88 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | 3 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 3 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | 3 |
| Trigeminal Ganglion | M | M | + | + | + | + | + | + | + | + | + | + | M | M | + | 79 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | 1 |

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 + .. Tissue examined microscopically
 X .. Lesion present
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Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 6 | 6 | 6 |
| HARLAN SPRAGUE DAWLEY RATS MALE | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 3 | 8 | 9 | 9 | 9 |
| | 3 | 2 | 2 | 3 | 0 | 1 | 4 | 0 | 4 | 6 | 3 | 2 | 1 | 4 | 7 | | | |
| 3.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | | | | | 2 |
| Schwannoma Malignant, Metastatic, Thymus | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 90 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 88 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | | | |
| | | | | | | | | | | | | | | | | | | 81 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | 90 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | 90 |
| Lipoma | | | | | | | | | | | | | | | | | | 1 |
| Liposarcoma | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Bilateral, Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 6 | 6 | 6 |
| | MALE | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 3 | 8 | 9 | 9 | 9 |
| | 3.0W/kg(CDMA)chr | 3 | 2 | 2 | 3 | 0 | 1 | 4 | 0 | 4 | 6 | 3 | 2 | 1 | 4 | 7 | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| * TOTALS | | | | | | | | | | | | | | | | | | |

Bilateral, Renal Tubule, Carcinoma

1

Urinary Bladder

+ + + + + + + + + + + + + A A

83

Leukemia Mononuclear

1

Lymphoma Malignant

1

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + + + + + +

90

Leukemia Mononuclear

X

4

Lymphoma Malignant

1

Mesothelioma Malignant

3

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0734 | 0734 | 0528 | 0558 | 0551 | 0730 | 0732 | 0665 | 0774 | 0752 | 0645 | 0768 | 0673 | 0495 | 0613 | 0473 | 0553 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | males
(cont...) |
| | ANIMAL ID | 01761 | 01176 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | 01177 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | A | A | A | + | + | A | + | + | + | + | + | + | A | A | + | + | A | + | + | + | + | + | + |
| Intestine Large, Colon
Lymphoma Malignant | + | + | A | A | A | + | + | + | + | + | + | + | + | + | M | A | + | + | A | + | + | + | + | + | + |
| Intestine Large, Rectum
Lymphoma Malignant
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | + | A | A | + | + | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + |
| Intestine Small, Duodenum
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | + | A | A | A | + | + | A | + | A | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | A | A | A | + | + | A | + | A | + | + | + | + | A | A | A | + | + | A | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | A | A | A | + | + | A | + | A | A | + | A | + | A | A | + | + | A | + | + | + | + | + | + |
| Liver
Hepatocellular Carcinoma
Leukemia Mononuclear
Lymphoma Malignant
Sarcoma, Metastatic, Skeletal Muscle | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + |

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MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
7
3
4 | 0
7
3
4 | 0
5
2
8 | 0
5
8
0 | 0
5
8
1 | 0
7
3
0 | 0
7
3
2 | 0
6
6
5 | 0
7
3
4 | 0
5
6
2 | 0
4
5
9 | 0
5
6
5 | 0
6
4
8 | 0
7
1
3 | 0
6
9
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7
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2 | 0
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8
3 | 0
1
7
8
4 | 0
1
7
8
5 | |

Adenoma
Adenoma, Multiple
Lymphoma Malignant

X

Salivary Glands
Lymphoma Malignant

+ + + + + + + + + + + + + X + + + + + + + + + + + +

Stomach, Forestomach
Lymphoma Malignant

+ + + + + + + + + + + + + X + + + + + + + + + + + +

Stomach, Glandular
Lymphoma Malignant

+ + A + A + + A + + + + + + X + A + + A + + + + + + + +

CARDIOVASCULAR SYSTEM

Aorta
Sarcoma, Metastatic, Skeletal Muscle

+ + + + + + + + + + + + + X + + + + + + + + + + + +

Heart
Lymphoma Malignant
Atrium, Schwannoma Malignant
Endocardium, Schwannoma Malignant
Myocardium, Schwannoma Malignant

+ + + + + + + + + + + + + X + + + + + + + + + + + +

ENDOCRINE SYSTEM

Adrenal Cortex
Carcinoma
Lymphoma Malignant

+ +

Adrenal Medulla

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
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| ANIMAL ID | 0
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5 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Pheochromocytoma Benign | | X | | | X | | | | | | | | | | X | | | | X | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | A | A | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | X | | | | | | | | | | X | | | | X | | | | | | X | | |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | X | | | | | X | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | X | | | |

GENERAL BODY SYSTEM

Tissue NOS
Schwannoma Malignant
Fat, Schwannoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | | 7 | 7 | 5 | 5 | 5 | 7 | 7 | 6 | 7 | 5 | 4 | 5 | 6 | 7 | 6 | 4 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 3 | 2 | 8 | 8 | 3 | 3 | 6 | 3 | 5 | 6 | 4 | 0 | 1 | 9 | 9 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6.0W/kg(CDMA)chr | 4 | 4 | 8 | 0 | 1 | 0 | 2 | 5 | 4 | 2 | 9 | 5 | 8 | 3 | 3 | 7 | 3 | 1 | 7 | 1 | 3 | 4 | 0 | 0 | 3 | 3 |
| | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

GENITAL SYSTEM

Epididymis
Mesothelioma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | X | | | | | | | | | | | | | | | | | | | | | | |

Penis

Preputial Gland
Sarcoma, Metastatic, Skeletal Muscle

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | X | | | | | | | | | | | | | | | |

Prostate
Adenoma
Sarcoma, Metastatic, Skeletal Muscle

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | X | | | | | | | X | | | | | | | | | | |

Seminal Vesicle
Sarcoma, Metastatic, Skeletal Muscle

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | X | | | | | | | | | | | | | | |

Testis
Mesothelioma Malignant
Interstitial Cell, Adenoma

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | X | | | | |

HEMATOPOIETIC SYSTEM

Bone Marrow
Lymphoma Malignant
Sarcoma, Metastatic, Skeletal Muscle

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| | | | | | | | | | | | X | | | | | | | | | | | | | | | |

Lymph Node
Iliac, Lymphoma Malignant
Iliac, Sarcoma, Metastatic, Skeletal Muscle

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| | | | | | | | + | | + | | | | | | | | + | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
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5 | |

Lumbar, Sarcoma, Metastatic, Skeletal Muscle
 Mediastinal, Leukemia Mononuclear
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Renal, Leukemia Mononuclear

X

Lymph Node, Mandibular
 Lymphoma Malignant

+ +

Lymph Node, Mesenteric
 Lymphoma Malignant
 Sarcoma, Metastatic, Skeletal Muscle

+ +

X

Spleen
 Leukemia Mononuclear
 Lymphoma Malignant

+ + A + A + + + + + + + + + + + + + + + + + +

Thymus
 Histiocytic Sarcoma
 Lymphoma Malignant
 Sarcoma, Metastatic, Skeletal Muscle

+ + + + + + + + + + + + + M + + + I + + + + + + +

X

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma

+ + + + + + + + + + + M + M M + + + M + + + + +

Skin
 Keratoacanthoma
 Sarcoma, Metastatic, Skeletal Muscle

+ +

X

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 |
| 7 | 7 | 5 | 5 | 5 | 7 | 7 | 6 | 7 | 5 | 4 | 5 | 6 | 7 | 6 | 4 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | |
| 3 | 3 | 2 | 8 | 8 | 3 | 3 | 6 | 3 | 5 | 6 | 4 | 0 | 1 | 9 | 9 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | |
| 4 | 4 | 8 | 0 | 1 | 0 | 2 | 5 | 4 | 2 | 9 | 5 | 8 | 3 | 3 | 7 | 3 | 1 | 7 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | |

Squamous Cell Papilloma
 Trichoepithelioma
 Sebaceous Gland, Adenoma
 Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Lipoma
 Subcutaneous Tissue, Malignant Fibrous Histiocytoma

X X
 X X

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |

X

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choroid Plexus, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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8 | 0
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7
6
9 | 0
1
7
7
0 | 0
1
7
7
1 | 0
1
7
7
2 | 0
1
7
7
3 | 0
1
7
7
4 | 0
1
7
7
5 | 0
1
7
7
6 | 0
1
7
7
7 | 0
1
7
7
8 | 0
1
7
7
9 | 0
1
7
8
0 | 0
1
7
8
1 | 0
1
7
8
2 | 0
1
7
8
3 | 0
1
7
8
4 | 0
1
7
8
5 |

Spinal Cord, Cervical
Lymphoma Malignant

+ +

Spinal Cord, Lumbar
Lymphoma Malignant

+ +

Spinal Cord, Thoracic
Lymphoma Malignant

+ +

Trigeminal Ganglion

+ + + + + + + M + + + + + + + + + + + + + +

RESPIRATORY SYSTEM

Lung
Carcinoma, Metastatic, Kidney
Hepatocellular Carcinoma, Metastatic, Liver
Lymphoma Malignant
Sarcoma, Metastatic, Skeletal Muscle

+
X
X
X

Nose
Lymphoma Malignant
Schwannoma Malignant, Metastatic, Tissue
Nos

+ + + + + + + A + + + + + + + + + + + + + + + +

Trachea

+ + + A A + + + + A + + + + + A + + A + + + + +

SPECIAL SENSES SYSTEM

Eye
Lymphoma Malignant

+ + A A A + + A + A + + + + + A + + A + + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
7
3
4 | 0
7
3
4 | 0
5
2
8 | 0
5
8
0 | 0
5
8
1 | 0
7
3
0 | 0
7
3
2 | 0
6
5
5 | 0
7
3
4 | 0
5
6
2 | 0
4
5
9 | 0
5
6
4 | 0
6
0
8 | 0
7
1
3 | 0
6
9
3 | 0
4
9
7 | 0
7
3
3 | 0
5
6
1 | 0
7
3
7 | 0
5
3
3 | 0
7
3
4 | 0
7
3
0 | 0
7
3
0 | 0
7
3
3 | | |
| | 0
1
7
6
1 | 0
1
7
6
2 | 0
1
7
6
3 | 0
1
7
6
4 | 0
1
7
6
5 | 0
1
7
6
6 | 0
1
7
6
7 | 0
1
7
6
8 | 0
1
7
6
9 | 0
1
7
7
0 | 0
1
7
7
1 | 0
1
7
7
2 | 0
1
7
7
3 | 0
1
7
7
4 | 0
1
7
7
5 | 0
1
7
7
6 | 0
1
7
7
7 | 0
1
7
7
8 | 0
1
7
7
9 | 0
1
7
7
0 | 0
1
7
7
1 | 0
1
7
7
2 | 0
1
7
7
3 | 0
1
7
7
4 | 0
1
7
7
5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephroblastoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Urothelium, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perirenal Tissue, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0665 | 0732 | 0732 | 0580 | 0520 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0572 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0440 | 0665 | 0510 | males
(cont...) |
| | ANIMAL ID | 01786 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | 01178 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | A | A |
| Intestine Large, Colon
Lymphoma Malignant | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A |
| Intestine Large, Rectum
Lymphoma Malignant
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Duodenum
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | + | + | A | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | A |
| Intestine Small, Ileum | + | + | + | A | A | A | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | A | A | A |
| Intestine Small, Jejunum | + | + | + | A | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | A |
| Liver
Hepatocellular Carcinoma
Leukemia Mononuclear
Lymphoma Malignant
Sarcoma, Metastatic, Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Pancreas | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0665 | 0732 | 0732 | 0582 | 0550 | 0201 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0575 | 0772 | 0772 | 0772 | 0772 | 0772 | 0474 | 0666 | 0565 | 0510 | males
(cont...) |
| | ANIMAL ID | 01786 | 01788 | 01788 | 01789 | 01790 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | 01791 | |

Adenoma
Adenoma, Multiple
Lymphoma Malignant

X

Salivary Glands
Lymphoma Malignant

+ A +

Stomach, Forestomach
Lymphoma Malignant

+ +

Stomach, Glandular
Lymphoma Malignant

+ + + + + A + + + + + + + + + + + + + + + + A +

CARDIOVASCULAR SYSTEM

Aorta
Sarcoma, Metastatic, Skeletal Muscle

+ +

Heart
Lymphoma Malignant
Atrium, Schwannoma Malignant
Endocardium, Schwannoma Malignant
Myocardium, Schwannoma Malignant

+
X

ENDOCRINE SYSTEM

Adrenal Cortex
Carcinoma
Lymphoma Malignant

+ X +

Adrenal Medulla

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0665 | 0732 | 0732 | 0580 | 0550 | 0273 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0572 | 0773 | 0773 | 0773 | 0773 | 0773 | 0440 | 0665 | 0665 | 0550 | males
(cont...) |
| | ANIMAL ID | 01786 | 01788 | 01789 | 01790 | 01791 | 01793 | 01794 | 01795 | 01797 | 01798 | 01799 | 01800 | 01801 | 01802 | 01803 | 01804 | 01806 | 01807 | 01808 | 01809 | 01811 | 01812 | |

Lymphoma Malignant
Pheochromocytoma Benign
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign

X X X X

Islets, Pancreatic
Adenoma
Carcinoma
Carcinoma, Multiple

+ + + + + A + + + + + + + + + + + + + + + + A +
X X X X X X
X

Parathyroid Gland
Adenoma

M M + M + + + + + + + + + + + + + + + + + + M

Pituitary Gland
Lymphoma Malignant
Schwannoma Malignant, Metastatic, Tissue
Nos
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple

+
X X

Thyroid Gland
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma

+ + + + + A + + + + + + + + + + + + + + + + A M
X X X X X X

GENERAL BODY SYSTEM

Tissue NOS
Schwannoma Malignant
Fat, Schwannoma Malignant

+

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | 6 | 7 | 7 | 5 | 5 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 6 | | 5 | 5 |
| 6 | 3 | 3 | 8 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 1 | 3 | 3 | 3 | 3 | 4 | 0 | 6 | 6 | 1 | 0 | |
| 5 | 2 | 2 | 2 | 0 | 1 | 2 | 1 | 3 | 2 | 0 | 1 | 7 | 9 | 2 | 7 | 3 | 4 | 4 | 3 | 2 | 0 | 8 | 5 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0665 | 0732 | 0732 | 0550 | 0552 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0575 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0474 | 0666 | 0565 | 0510 | males
(cont...) |
| | ANIMAL ID | 01786 | 01788 | 01789 | 01790 | 01791 | 01793 | 01794 | 01795 | 01797 | 01798 | 01799 | 01800 | 01801 | 01802 | 01803 | 01804 | 01806 | 01807 | 01808 | 01809 | 01811 | 01812 | 01813 | |

Lumbar, Sarcoma, Metastatic, Skeletal Muscle
 Mediastinal, Leukemia Mononuclear
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Renal, Leukemia Mononuclear

X

X

Lymph Node, Mandibular
 Lymphoma Malignant

+ A +

Lymph Node, Mesenteric
 Lymphoma Malignant
 Sarcoma, Metastatic, Skeletal Muscle

+ +

Spleen
 Leukemia Mononuclear
 Lymphoma Malignant

+ + + + + + + + + + + + + + + + X + + + + + + A +

Thymus
 Histiocytic Sarcoma
 Lymphoma Malignant
 Sarcoma, Metastatic, Skeletal Muscle

+ + + + + + + + M + + + + I + M + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma

+ + + M + + + + + + + + + + + + + + + M + M +

Skin
 Keratoacanthoma
 Sarcoma, Metastatic, Skeletal Muscle

+ + + + + + + + + + + + + + + X + + + + + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|---------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | | 6 | 7 | 7 | 5 | 5 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 6 | 5 | | | | | | | | | | | | | | | | |
| 6.0W/kg(CDMA)chr | | 6 | 3 | 3 | 8 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 3 | 3 | 3 | 3 | 4 | 0 | 6 | 6 | 1 | | | | | | | | | | | | | |
| ANIMAL ID | | 5 | 2 | 2 | 2 | 0 | 1 | 2 | 1 | 3 | 2 | 0 | 1 | 7 | 9 | 2 | 7 | 3 | 4 | 4 | 3 | 3 | 2 | 0 | 8 | 5 | 0 | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | |

males (cont...)

Squamous Cell Papilloma

Trichoepithelioma

Sebaceous Gland, Adenoma

Subcutaneous Tissue, Fibroma

Subcutaneous Tissue, Lipoma

Subcutaneous Tissue, Malignant Fibrous

Histiocytoma

X

X

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Glioma Malignant | | | | | | | | | | X | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choroid Plexus, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|--|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|
| | | 065 | 072 | 072 | 058 | 050 | 020 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 012 | 032 | 031 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 040 | | 060 |
| ANIMAL ID | | 017 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 |
| ANIMAL ID | | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 | 778 |
| ANIMAL ID | | 886 | 887 | 888 | 888 | 889 | 890 | 891 | 893 | 894 | 895 | 897 | 898 | 899 | 899 | 899 | 899 | 899 | 899 | 899 | 899 | 899 | 899 | 899 | 899 | 899 | 899 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord, Cervical Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Carcinoma, Metastatic, Kidney
Hepatocellular Carcinoma, Metastatic, Liver
Lymphoma Malignant
Sarcoma, Metastatic, Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose
Lymphoma Malignant
Schwannoma Malignant, Metastatic, Tissue Nos | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Trachea | A | + | + | A | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye
Lymphoma Malignant | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | A | A |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0665 | 0732 | 0732 | 0582 | 0550 | 0270 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0122 | 0572 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0440 | 0668 | 0665 | 0510 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 011786 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephroblastoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Urothelium, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perirenal Tissue, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0731 | 0371 | 0567 | 0488 | 0773 | 0773 | 0228 | 0559 | 0473 | 0665 | 0554 | 0662 | 0773 | 0668 | 0443 | 0663 | 0332 | 0774 | 0559 | 0773 | 0773 | 0115 | 0773 | males
(cont...) |
| | ANIMAL ID | 0181 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | |
| | | 881 | 881 | 882 | 881 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | 882 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | A | + | + | A | + | A | + | + | A | + | + | + | A | A | + | A | + | A | + | + | + |
| Intestine Large, Colon
Lymphoma Malignant | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | A | + | A | + | + | + | + | + |
| Intestine Large, Rectum
Lymphoma Malignant
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + |
| Intestine Small, Duodenum
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | + | + | A | + | + | + | A | A | + | + | A | + | + | + | A | A | + | A | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | A | + | + | A | + | A | + | + | A | M | + | + | + | A | + | A | + | A | + | + | + |
| Intestine Small, Jejunum | + | + | A | A | + | + | A | + | A | + | + | A | + | + | + | A | A | + | A | + | + | + | + | + |
| Liver
Hepatocellular Carcinoma
Leukemia Mononuclear
Lymphoma Malignant
Sarcoma, Metastatic, Skeletal Muscle | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0731 | 0371 | 0567 | 0488 | 0730 | 0770 | 0229 | 0542 | 0476 | 0555 | 0662 | 0773 | 0683 | 0432 | 0663 | 0771 | 0438 | 0663 | 0771 | 0590 | 0773 | 0773 | 0153 | 0773 | 0770 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 6 | 7 | 0 | 1 | 2 | 2 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 3 | 4 | 5 | 8 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenoma | X | | | | | X | | | | | | | | | | | | | X | | | | | | X |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endocardium, Schwannoma Malignant | | | | | X | | | | | X | | | | | | | | | | | | | | | |
| Myocardium, Schwannoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
| | 0
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1 | 0
3
7
1 | 0
5
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7 | 0
4
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8 | 0
7
3
0 | 0
7
3
0 | 0
2
8
9 | 0
5
9
2 | 0
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7
5 | 0
7
3
2 | 0
6
5
0 | 0
5
4
7 | 0
5
9
4 | 0
6
2
2 | 0
7
3
3 | 0
6
8
0 | 0
4
3
3 | 0
6
2
1 | 0
3
4
8 | 0
7
3
1 | 0
5
9
0 | 0
7
3
3 | 0
7
3
4 | 0
1
5
3 | 0
7
3
0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 | |
| | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | |
| | 6 | 7 | 0 | 1 | 2 | 2 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 6 | | |

Lymphoma Malignant
Pheochromocytoma Benign
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign

X

X

X

Islets, Pancreatic
Adenoma
Carcinoma
Carcinoma, Multiple

+

+

+

A

+

+

+

+

A

+

+

+

+

+

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+

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+

+

A

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A

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+

+

+

+

+

+

+

X

X

X

Parathyroid Gland
Adenoma

+

+

+

+

M

+

+

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+

+

+

+

+

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+

+

M

+

+

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+

+

X

Pituitary Gland
Lymphoma Malignant
Schwannoma Malignant, Metastatic, Tissue
Nos
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple

+

+

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X

X

X

X

X

X

Thyroid Gland
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma

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A

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+

+

X

X

GENERAL BODY SYSTEM

Tissue NOS
Schwannoma Malignant
Fat, Schwannoma Malignant

+

+

X

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS MALE | 7 | 3 | 5 | 4 | 7 | 7 | 2 | 5 | 4 | 7 | 6 | 5 | 5 | 6 | 7 | 6 | 4 | 6 | 3 | 7 | 5 | 7 | 7 | 1 | 7 | |
| | 3 | 7 | 6 | 8 | 3 | 3 | 8 | 9 | 7 | 3 | 5 | 4 | 9 | 2 | 3 | 8 | 3 | 2 | 4 | 3 | 9 | 3 | 3 | 5 | 3 | |
| | 1 | 1 | 7 | 8 | 0 | 0 | 9 | 2 | 5 | 2 | 0 | 7 | 4 | 2 | 3 | 0 | 3 | 1 | 8 | 1 | 0 | 3 | 4 | 3 | 0 | |
| 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 6 | 7 | 0 | 1 | 2 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 3 | 4 | 5 | 8 | 8 | |

males (cont...)

GENITAL SYSTEM

Epididymis
Mesothelioma Malignant

+ +

Penis

Preputial Gland
Sarcoma, Metastatic, Skeletal Muscle

+ +

Prostate
Adenoma
Sarcoma, Metastatic, Skeletal Muscle

+ + + + + + + + A + + + + + + + + + + + + + + +

Seminal Vesicle
Sarcoma, Metastatic, Skeletal Muscle

+ +

Testis
Mesothelioma Malignant
Interstitial Cell, Adenoma

+ +

HEMATOPOIETIC SYSTEM

Bone Marrow
Lymphoma Malignant
Sarcoma, Metastatic, Skeletal Muscle

+ +

Lymph Node
Iliac, Lymphoma Malignant
Iliac, Sarcoma, Metastatic, Skeletal Muscle

+ + + + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HARLAN SPRAGUE DAWLEY RATS MALE | 7 | 3 | 5 | 4 | 7 | 7 | 2 | 5 | 4 | 7 | 6 | 5 | 5 | 6 | 7 | 6 | 4 | 6 | 3 | 7 | 5 | 7 | 7 | 1 | 7 | |
| 6.0W/kg(CDMA)chr | 3 | 7 | 6 | 8 | 3 | 3 | 8 | 9 | 7 | 3 | 5 | 4 | 9 | 2 | 3 | 8 | 3 | 2 | 4 | 3 | 9 | 3 | 3 | 5 | 3 | | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 6 | 7 | 0 | 1 | 2 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 3 | 4 | 5 | 7 | 8 | | |

males (cont...)

Lumbar, Sarcoma, Metastatic, Skeletal Muscle
 Mediastinal, Leukemia Mononuclear
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Renal, Leukemia Mononuclear

X
X

Lymph Node, Mandibular
 Lymphoma Malignant

+ + + + + + + + + + + + + + + + + + A + + + + +
 X

Lymph Node, Mesenteric
 Lymphoma Malignant
 Sarcoma, Metastatic, Skeletal Muscle

+ + + + + + + + + + + + M + + + + + A + + + + +
 X

Spleen
 Leukemia Mononuclear
 Lymphoma Malignant

+ + + + + + + + A + + + + + + + + A + + + + +
 X

Thymus
 Histiocytic Sarcoma
 Lymphoma Malignant
 Sarcoma, Metastatic, Skeletal Muscle

+ + M + + + + + + + I + M + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma

+ + + + + + + M + + + M + + + + + + + + + + M +

Skin
 Keratoacanthoma
 Sarcoma, Metastatic, Skeletal Muscle

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| HARLAN SPRAGUE DAWLEY RATS MALE
6.0W/kg(CDMA)chr | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | ANIMAL ID | 7 | 3 | 5 | 4 | 7 | 7 | 2 | 5 | 4 | 7 | 6 | 5 | 5 | 6 | 7 | 6 | 4 | 6 | 3 | 7 | 5 | 7 | 7 | 1 | 7 | 3 | 5 | 3 | 3 | 5 | 3 | 0 | | |
| | | | 3 | 7 | 6 | 8 | 3 | 3 | 8 | 9 | 7 | 3 | 5 | 4 | 9 | 2 | 3 | 8 | 3 | 2 | 4 | 3 | 9 | 3 | 3 | 5 | 3 | 0 | | | | | | | | |
| | | | 1 | 1 | 7 | 8 | 0 | 0 | 9 | 2 | 5 | 2 | 0 | 7 | 4 | 2 | 3 | 0 | 3 | 1 | 8 | 1 | 0 | 3 | 4 | 3 | 0 | | | | | | | | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | | 6 | 7 | 0 | 1 | 2 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 3 | 4 | 5 | 7 | 8 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males (cont...)

Squamous Cell Papilloma
 Trichoepithelioma
 Sebaceous Gland, Adenoma
 Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Lipoma
 Subcutaneous Tissue, Malignant Fibrous Histiocytoma

X

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choroid Plexus, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|---|
| | 0731 | 0371 | 0567 | 0488 | 0733 | 0773 | 0289 | 0542 | 0475 | 0632 | 0554 | 0559 | 0662 | 0773 | 0668 | 0433 | 0662 | 0338 | 0731 | 0579 | 0773 | 0133 | 0773 | 0117 | 0773 | | |
| ANIMAL ID | 0181 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | |
| Spinal Cord, Cervical
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spinal Cord, Lumbar
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Carcinoma, Metastatic, Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Tissue
Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Trachea | + | + | A | A | + | + | + | + | A | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye
Lymphoma Malignant | + | + | + | A | + | + | + | M | A | + | + | + | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
| | 0
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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Nephroblastoma | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Pelvis, Urothelium, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perirenal Tissue, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | A | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 7 | | |
| | 3 | 3 | 3 | 0 | 9 | 3 | 3 | 2 | 8 | 3 | 0 | 3 | 3 | 2 | 3 | | |
| MALE | 1 | 4 | 7 | 8 | 4 | 0 | 1 | 0 | 6 | 7 | 8 | 1 | 7 | 5 | 0 | | |
| 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| ANIMAL ID | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | | 68 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 76 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | A | + | A | + | + | A | + | + | M | + | | 76 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Duodenum | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | | 66 |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | | 63 |
| Intestine Small, Jejunum | + | + | + | A | A | + | + | A | + | + | + | + | + | + | + | | 62 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 88 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | X | | | X | | | | | | | | | 4 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | + | | | + | | | | | | + | | | 6 |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | 1 |
| Pancreas | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | 78 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
3
1 | 0
7
3
4 | 0
7
3
7 | 0
6
0
8 | 0
5
9
4 | 0
6
3
0 | 0
7
3
1 | 0
7
2
0 | 0
5
8
6 | 0
7
7
8 | 0
7
3
1 | 0
7
0
7 | 0
4
3
5 | 0
7
2
0 | 0
7
3
0 | |
| ANIMAL ID | 0
1
8
4
9 | 0
1
8
5
1 | 0
1
8
5
2 | 0
1
8
5
3 | 0
1
8
5
4 | 0
1
8
5
5 | 0
1
8
5
6 | 0
1
8
5
7 | 0
1
8
5
8 | 0
1
8
5
9 | 0
1
8
5
0 | 0
1
8
5
1 | 0
1
8
5
2 | 0
1
8
5
3 | 0
1
8
5
4 | |
| Adenoma | | | | | | | | | | | X | | | | | 5 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | X | | | | | | | | | | | 2 |
| Stomach, Glandular | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | 78 |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | 2 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | X | | | | X | | | | | | | 3 |
| Atrium, Schwannoma Malignant | X | | | | | | | | | | | | | | | 1 |
| Endocardium, Schwannoma Malignant | | | | | | | | | | X | | | | | | 4 |
| Myocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Carcinoma | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
1 | 0
7
3
4 | 0
7
3
7 | 0
6
0
8 | 0
5
9
4 | 0
6
3
0 | 0
7
3
1 | 0
7
2
0 | 0
5
8
6 | 0
7
3
7 | 0
7
0
8 | 0
7
3
1 | 0
7
3
7 | 0
4
2
5 | 0
7
3
0 | |
| ANIMAL ID | 0
1
8
4
9 | 0
1
8
5
1 | 0
1
8
5
2 | 0
1
8
5
3 | 0
1
8
5
4 | 0
1
8
5
5 | 0
1
8
5
6 | 0
1
8
5
7 | 0
1
8
5
8 | 0
1
8
5
9 | 0
1
8
6
0 | 0
1
8
6
1 | 0
1
8
6
2 | 0
1
8
6
3 | 0
1
8
6
4 | 0
1
8
6
5 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Benign | | | | | | | | X | | | | X | | | | 12 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | 1 |
| Bilateral, Pheochromocytoma Benign | X | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 79 |
| Adenoma | X | | | | | | | | | | | | | | | 7 |
| Carcinoma | | | | | | | | | | X | | | | | | 5 |
| Carcinoma, Multiple | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 82 |
| Adenoma | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | 2 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Adenoma | | | | | | | | X | | | X | | | | X | 11 |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| C-cell, Adenoma | | | | | | X | X | | | | | X | | | | 11 |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | 4 |
| Follicular Cell, Adenoma | | | | | X | | | | | | | | | | | 1 |

GENERAL BODY SYSTEM

| | |
|---------------------------|---|
| Tissue NOS | 3 |
| Schwannoma Malignant | 1 |
| Fat, Schwannoma Malignant | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 7 | | |
| | 3 | 3 | 3 | 0 | 9 | 3 | 3 | 2 | 8 | 3 | 0 | 3 | 3 | 2 | 3 | | |
| | 1 | 4 | 7 | 8 | 4 | 0 | 1 | 0 | 6 | 7 | 8 | 1 | 7 | 5 | 0 | | |
| | 6.0W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| * TOTALS | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | 1 |
| Penis | | | | | | | | | | | | | | | | | 1 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Adenoma | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | 1 |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | X | | | | | | | | | | | | 2 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Lymph Node | | | | | + | | + | | + | + | | | | | | | 16 |
| Iliac, Lymphoma Malignant | | | | | X | | | | | | | | | | | | 1 |
| Iliac, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|
| | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 7 | | | |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 3 | 3 | 3 | 0 | 9 | 3 | 3 | 2 | 8 | 3 | 0 | 3 | 3 | 2 | 3 | | | |
| | 1 | 4 | 7 | 8 | 4 | 0 | 1 | 0 | 6 | 7 | 8 | 1 | 7 | 5 | 0 | | | |
| 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | |

| | |
|--|---|
| Lumbar, Sarcoma, Metastatic, Skeletal Muscle | 1 |
| Mediastinal, Leukemia Mononuclear | 1 |
| Mediastinal, Lymphoma Malignant | 2 |
| Pancreatic, Lymphoma Malignant | 2 |
| Renal, Leukemia Mononuclear | 1 |

| | |
|------------------------|----|
| Lymph Node, Mandibular | 88 |
| Lymphoma Malignant | 3 |

| | |
|--------------------------------------|----|
| Lymph Node, Mesenteric | 88 |
| Lymphoma Malignant | 3 |
| Sarcoma, Metastatic, Skeletal Muscle | 1 |

| | |
|----------------------|----|
| Spleen | 85 |
| Leukemia Mononuclear | 1 |
| Lymphoma Malignant | 3 |

| | |
|--------------------------------------|----|
| Thymus | 82 |
| Histiocytic Sarcoma | 1 |
| Lymphoma Malignant | 1 |
| Sarcoma, Metastatic, Skeletal Muscle | 1 |

INTEGUMENTARY SYSTEM

| | |
|---------------|----|
| Mammary Gland | 80 |
| Fibroadenoma | 1 |

| | |
|--------------------------------------|----|
| Skin | 90 |
| Keratoacanthoma | 4 |
| Sarcoma, Metastatic, Skeletal Muscle | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------|--|
| | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 7 | | | |
| HARLAN SPRAGUE DAWLEY RATS MALE | 3 | 3 | 3 | 0 | 9 | 3 | 3 | 2 | 8 | 3 | 0 | 3 | 3 | 2 | 3 | | | |
| 6.0W/kg(CDMA)chr | 1 | 4 | 7 | 8 | 4 | 0 | 1 | 0 | 6 | 7 | 8 | 1 | 7 | 5 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | |
| | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | | | |
| | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------|
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | X | 1 |
| Trichoepithelioma | | | | | | | | | | | | | | | | | X | 1 |
| Sebaceous Gland, Adenoma | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | 4 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Malignant Fibrous Histiocytoma | | | | | | | | | | | | | | | | | X | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Sarcoma | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Glioma Malignant | | | | X | | | | | | | | | | | | | 3 |
| Lymphoma Malignant | | | | | X | | | X | | | | | | | | | 2 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | 1 |
| Choroid Plexus, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | 1 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
1 | 0
7
3
4 | 0
7
3
7 | 0
6
0
8 | 0
5
9
4 | 0
6
3
0 | 0
7
3
1 | 0
7
2
0 | 0
5
8
6 | 0
7
3
7 | 0
7
0
8 | 0
7
3
1 | 0
7
3
7 | 0
4
2
5 | 0
7
3
0 | |
| ANIMAL ID | 0
1
8
4
9 | 0
1
8
5
1 | 0
1
8
5
2 | 0
1
8
5
3 | 0
1
8
5
4 | 0
1
8
5
5 | 0
1
8
5
6 | 0
1
8
5
7 | 0
1
8
5
8 | 0
1
8
5
9 | 0
1
8
6
0 | 0
1
8
6
1 | 0
1
8
6
2 | 0
1
8
6
3 | 0
1
8
6
4 | 0
1
8
6
5 |
| Spinal Cord, Cervical
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1 |
| Spinal Cord, Lumbar
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
2 |
| Spinal Cord, Thoracic
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1 |
| Trigeminal Ganglion | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | 83 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | |
| Lung
Carcinoma, Metastatic, Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | X | | | X | | | | | | | | 4 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |
| Nose
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87
1 |
| Schwannoma Malignant, Metastatic, Tissue
Nos | | | | | X | | | | | | | | | | | 1 |
| Trachea | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | 72 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| Eye
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 72
1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | ANIMAL ID | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|-----------------|
| | 0
7
3
1 | 0
7
3
4 | 0
7
3
7 | 0
6
0
8 | 0
5
9
4 | 0
6
3
0 | 0
7
3
1 | 0
7
2
0 | 0
5
8
6 | 0
7
3
7 | 0
7
0
8 | 0
7
3
1 | 0
7
3
7 | 0
4
2
5 | 0
7
3
0 | | |
| | 0
1
8
4
9 | 0
1
8
5
1 | 0
1
8
5
2 | 0
1
8
5
3 | 0
1
8
5
4 | 0
1
8
5
5 | 0
1
8
5
6 | 0
1
8
5
7 | 0
1
8
5
8 | 0
1
8
5
9 | 0
1
8
6
0 | 0
1
8
6
1 | 0
1
8
6
2 | 0
1
8
6
3 | 0
1
8
6
4 | | |
| | | | | | | | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | 1 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 87 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 |
| Nephroblastoma | | | | | | | | | | | | | | | | | 1 |
| Pelvis, Urothelium, Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Perirenal Tissue, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | | 78 |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | 1 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | X | | | | X | | | | | | | | 4 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 2 | 7 | 5 | 7 | 7 | 7 | 5 | 6 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | | |
| | 0 | 2 | 9 | 8 | 0 | 3 | 5 | 0 | 8 | 1 | 8 | 4 | 5 | 2 | 5 | 2 | 8 | 1 | 1 | 8 | 9 | 4 | 8 | 3 | 4 | 7 | 3 | 4 | 7 | 3 | 4 | 7 | | |
| | 0.0W/kg(CDMA)chr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum
Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum
Leiomyosarcoma | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hepatocellular Adenoma | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | |
| | 5 6 7 7 7 4 7 6 2 7 5 7 7 7 5 6 5 5 7 7 | | | | | | | | | | | | | | | | | | | | | | |
| | 0 6 3 3 4 9 4 6 6 4 0 4 4 1 6 2 7 3 1 3 | | | | | | | | | | | | | | | | | | | | | | |
| 0.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Lymphoma Malignant | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | X | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma, Metastatic, Stomach, Forestomach | | | | | X | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | + | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|------------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-------------------|
| | 050 | 062 | 073 | 073 | 074 | 074 | 079 | 079 | 080 | 083 | 084 | 085 | 086 | 087 | 088 | 089 | 090 | 091 | 092 | 093 | 094 | 095 | 096 | 097 | | |
| 0.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Adenoma Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Pars Distalis, Adenoma | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma, Multiple | | | X | X | | | X | X | | X | | | | | | X | X | | | X | X | X | | X | X | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland C-cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abdominal, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abdominal, Fat, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary Cystadenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | 0550 | 0662 | 0779 | 0778 | 0770 | 0473 | 0775 | 0660 | 0228 | 0771 | 0578 | 0774 | 0775 | 0772 | 0575 | 0662 | 0578 | 0573 | 0771 | 0378 | 0476 | 0773 | 0778 | 0777 | 0574 | 0773 | 0774 | 0577 |
| | ANIMAL ID | 00607 | 00608 | 00609 | 00610 | 00611 | 00612 | 00613 | 00614 | 00615 | 00616 | 00617 | 00618 | 00619 | 00620 | 00621 | 00622 | 00623 | 00624 | 00625 | 00626 | 00627 | 00628 | 00629 | 00630 | 00631 | 00632 | 00633 | 00634 |

females (cont...)

Sertoli Cell Tumor Benign

Oviduct

Uterus

Adenocarcinoma

Hemangiosarcoma

Lymphoma Malignant

Polyp Stromal

Polyp Stromal, Multiple

Schwannoma Malignant

Cervix, Leiomyosarcoma

Cervix, Schwannoma Malignant

Vagina

Schwannoma Malignant

Schwannoma Malignant, Metastatic, Uterus

+ +

X

X

HEMATOPOIETIC SYSTEM

Bone Marrow

Lymph Node

Lymphoma Malignant

Bronchial, Lymphoma Malignant

Lumbar, Lymphoma Malignant

Mediastinal, Lymphoma Malignant

Pancreatic, Lymphoma Malignant

Renal, Lymphoma Malignant

+ +

+

X

+

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
| | 0500 | 0600 | 0700 | 0703 | 0704 | 0707 | 0709 | 0710 | 0711 | 0712 | 0713 | 0714 | 0715 | 0716 | 0717 | 0718 | 0719 | 0720 | 0721 | 0722 | 0723 | 0724 | 0725 | 0726 | | |
| 0500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0703 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0704 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0707 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0709 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0710 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0711 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0712 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0713 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0714 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0715 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0716 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0718 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0721 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0723 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0726 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0727 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

Lymph Node, Mandibular
Lymphoma Malignant

+ +

Lymph Node, Mesenteric
Lymphoma Malignant

+ +

Spleen
Hemangiosarcoma
Lymphoma Malignant

+
X X

Thymus
Lymphoma Malignant
Thymoma Benign
Thymoma Malignant

+ + + + M + + + + M + + + + + + + + + + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Adenoma, Multiple
Fibroadenoma
Fibroadenoma, Multiple

+
X
X X

Skin
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Malignant Fibrous
Histiocytoma

+
X X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | 050 | 062 | 073 | 073 | 074 | 077 | 066 | 022 | 077 | 057 | 077 | 077 | 057 | 066 | 055 | 077 | 077 | 077 | 044 | 077 | 077 | 055 | 077 |
| | ANIMAL ID | 00607 | 00608 | 00609 | 00610 | 00611 | 00612 | 00613 | 00614 | 00615 | 00616 | 00617 | 00618 | 00619 | 00620 | 00621 | 00622 | 00623 | 00624 | 00625 | 00626 | 00627 | 00628 | 00629 |

females (cont...)

Subcutaneous Tissue, Sarcoma

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

+ +

NERVOUS SYSTEM

Brain

+ +

Carcinoma, Metastatic, Pituitary Gland

Lymphoma Malignant

Meninges, Granular Cell Tumor Benign

X

Nerve Trigeminal

M + M + + + + + + + + + M + + + + + + + + + + + +

Peripheral Nerve, Sciatic

+ +

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

+ +

Lymphoma Malignant

Spinal Cord, Lumbar

+ +

Spinal Cord, Thoracic

+ +

Trigeminal Ganglion

+ + + + + + + + I + + + + + + M + + + + + + + I +

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|
| | 050 | 062 | 073 | 073 | 074 | 074 | 079 | 084 | 085 | 086 | 088 | 091 | 094 | 095 | 097 | 098 | 099 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | | 107 |
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 2 | 7 | 5 | 7 | 7 | 7 | 5 | 6 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | |
| 0.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 3 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | | |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nos | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | X | | | | | | | | | X | | | | | X | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 3 | 7 | 3 | 8 | 4 | 1 | 6 | 5 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 5 | 9 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 0 | 3 |
| | 7 | 8 | 9 | 1 | 4 | 4 | 6 | 1 | 4 | 0 | 9 | 1 | 1 | 1 | 0 | 0 | 5 | 6 | 7 | 7 | 8 | 1 | 0 | 0 | 4 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Leiomyosarcoma | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | X | | | | | | | | | | | | | | | | | | | X | | | | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | + | | | | + | | | | | + | | | | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | + | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0737 | 0738 | 0748 | 0764 | 0765 | 0766 | 0771 | 0774 | 0777 | 0778 | 0779 | 0780 | 0781 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | 0790 | 0791 | 0792 | | | 0793 | 0794 | 0795 | 0796 | 0797 | 0798 | 0799 | 0800 | 0801 | 0802 | 0803 | 0804 | 0805 | 0806 | 0807 | 0808 | 0809 | 0810 | 0811 | 0812 | 0813 | 0814 | 0815 | 0816 | 0817 | 0818 | 0819 | 0820 | 0821 | 0822 | 0823 | 0824 | 0825 | 0826 | 0827 | 0828 | 0829 | 0830 | 0831 | 0832 | 0833 | 0834 | 0835 | 0836 | 0837 | 0838 | 0839 | 0840 | 0841 | 0842 | 0843 | 0844 | 0845 | 0846 | 0847 | 0848 | 0849 | 0850 | 0851 | 0852 | 0853 | 0854 | 0855 | 0856 | 0857 | 0858 | 0859 | 0860 | 0861 | 0862 | 0863 | 0864 | 0865 | 0866 | 0867 | 0868 | 0869 | 0870 | 0871 | 0872 | 0873 | 0874 | 0875 | 0876 | 0877 | 0878 | 0879 | 0880 | 0881 | 0882 | 0883 | 0884 | 0885 | 0886 | 0887 | 0888 | 0889 | 0890 | 0891 | 0892 | 0893 | 0894 | 0895 | 0896 | 0897 | 0898 | 0899 | 0900 | 0901 | 0902 | 0903 | 0904 | 0905 | 0906 | 0907 | 0908 | 0909 | 0910 | 0911 | 0912 | 0913 | 0914 | 0915 | 0916 | 0917 | 0918 | 0919 | 0920 | 0921 | 0922 | 0923 | 0924 | 0925 | 0926 | 0927 | 0928 | 0929 | 0930 | 0931 | 0932 | 0933 | 0934 | 0935 | 0936 | 0937 | 0938 | 0939 | 0940 | 0941 | 0942 | 0943 | 0944 | 0945 | 0946 | 0947 | 0948 | 0949 | 0950 | 0951 | 0952 | 0953 | 0954 | 0955 | 0956 | 0957 | 0958 | 0959 | 0960 | 0961 | 0962 | 0963 | 0964 | 0965 | 0966 | 0967 | 0968 | 0969 | 0970 | 0971 | 0972 | 0973 | 0974 | 0975 | 0976 | 0977 | 0978 | 0979 | 0980 | 0981 | 0982 | 0983 | 0984 | 0985 | 0986 | 0987 | 0988 | 0989 | 0990 | 0991 | 0992 | 0993 | 0994 | 0995 | 0996 | 0997 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Aorta | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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9 | | |
| ANIMAL ID | 0
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1 | 0
0
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6
3 |

Islets, Pancreatic Adenoma Carcinoma +

Parathyroid Gland +

Pituitary Gland Pars Distalis, Adenoma X + + + + X X X X X X X X X X X X X X X X X X
 Pars Distalis, Adenoma, Multiple X
 Pars Distalis, Carcinoma

Thyroid Gland C-cell, Adenoma Follicular Cell, Carcinoma + + + + + + + + + + + X + + + + X X X X

GENERAL BODY SYSTEM

Tissue NOS Abdominal, Schwannoma Malignant Abdominal, Fat, Lymphoma Malignant + + + X

GENITAL SYSTEM

Clitoral Gland +

Ovary Cystadenoma Granulosa Cell Tumor Benign Granulosa Cell Tumor Malignant Lymphoma Malignant + + + + + + + + + + + + + + + + + X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | 0
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9 | females
(cont...) |
| | ANIMAL ID | 0
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6
3 | |

Sertoli Cell Tumor Benign

Oviduct

Uterus

Adenocarcinoma

Hemangiosarcoma

Lymphoma Malignant

Polyp Stromal

Polyp Stromal, Multiple

Schwannoma Malignant

Cervix, Leiomyosarcoma

Cervix, Schwannoma Malignant

Vagina

Schwannoma Malignant

Schwannoma Malignant, Metastatic, Uterus

HEMATOPOIETIC SYSTEM

Bone Marrow

Lymph Node

Lymphoma Malignant

Bronchial, Lymphoma Malignant

Lumbar, Lymphoma Malignant

Mediastinal, Lymphoma Malignant

Pancreatic, Lymphoma Malignant

Renal, Lymphoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 4 | 7 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 2 | 7 | |
| ANIMAL ID | 3 | 3 | 8 | 4 | 1 | 6 | 5 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 5 | 9 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 0 | 3 | |
| | 7 | 8 | 9 | 1 | 4 | 4 | 6 | 1 | 4 | 0 | 9 | 1 | 1 | 1 | 0 | 0 | 5 | 1 | 8 | 1 | 0 | 0 | 4 | 2 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | |
| | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | X | X | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen
Hemangiosarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus
Lymphoma Malignant
Thymoma Benign
Thymoma Malignant | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Adenoma, Multiple
Fibroadenoma
Fibroadenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | | | X | | | | | | | | | | | | | | X | | | | |
| | X | | | | | | | | | | | | | | | | | | | X | | | | | |
| | | X | X | | | X | | X | | X | | | | X | X | | | | | X | | | | | |
| | X | | | | X | | X | X | | X | | | | | | X | X | X | X | | X | X | | | X |
| Skin
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Malignant Fibrous
Histiocytoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | 0737 | 0738 | 0749 | 0761 | 0744 | 0766 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0550 | 0667 | 0777 | 0777 | 0557 | 0777 | 0777 | 0777 | 0227 | 0773 | females
(cont...) | |
| | ANIMAL ID | 00635 | 00633 | 00637 | 00639 | 00641 | 00642 | 00644 | 00644 | 00645 | 00646 | 00647 | 00648 | 00651 | 00652 | 00653 | 00654 | 00655 | 00656 | 00657 | 00658 | 00659 | 00660 | | 00663 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

Subcutaneous Tissue, Sarcoma

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion | + | + | + | M | + | + | + | + | M | M | + | + | + | + | + | + | + | + | M | + | + | + | + |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|----------------------|
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4
4 | 0
7
4
4 | 0
7
4
4 | 0
2
3
0 | 0
7
4
2 | 0
7
4
0 | | |
| ANIMAL ID | 0
0
6
3
5 | 0
0
6
3
6 | 0
0
6
3
7 | 0
0
6
3
9 | 0
0
6
4
1 | 0
0
6
4
2 | 0
0
6
4
3 | 0
0
6
4
4 | 0
0
6
4
4 | 0
0
6
4
5 | 0
0
6
4
6 | 0
0
6
4
7 | 0
0
6
4
8 | 0
0
6
5
9 | 0
0
6
5
3 | 0
0
6
5
4 | 0
0
6
5
5 | 0
0
6
5
6 | 0
0
6
5
7 | 0
0
6
5
8 | 0
0
6
5
9 | 0
0
6
6
0 | 0
0
6
6
1 | 0
0
6
6
3 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nos | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | X | X | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0353 | 0662 | 0531 | 0774 | 0774 | 0776 | 0644 | 0666 | 0934 | 0344 | 0771 | 0777 | 0777 | 0777 | 0777 | 0577 | 0776 | 0655 | 0662 | 0774 | 0774 | 0777 | 0777 | 0777 | | |
| | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | | |
| | 64 | 65 | 66 | 68 | 69 | 70 | 71 | 72 | 74 | 75 | 77 | 78 | 79 | 80 | 81 | 83 | 84 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Leiomyosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Liver
Hepatocellular Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Adenocarcinoma, Metastatic, Uterus
Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa
Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0353 | 0662 | 0531 | 0744 | 0744 | 0737 | 0662 | 0462 | 0674 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0524 | 0733 | 0733 | 0608 | 0563 | 0622 | 0744 | 0774 | | |
| | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | |
| | 664 | 665 | 666 | 668 | 669 | 660 | 661 | 662 | 664 | 665 | 667 | 668 | 669 | 660 | 661 | 663 | 664 | 666 | 667 | 668 | 669 | 660 | 661 | 662 | 663 | |

Lymphoma Malignant

Salivary Glands

Stomach, Forestomach
Lymphoma Malignant
Sarcoma

Stomach, Glandular
Sarcoma, Metastatic, Stomach, Forestomach

Tongue
Squamous Cell Carcinoma

CARDIOVASCULAR SYSTEM

Aorta

Heart
Lymphoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Carcinoma
Lymphoma Malignant

Adrenal Medulla
Pheochromocytoma Benign

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0353 | 0662 | 0531 | 0774 | 0774 | 0776 | 0644 | 0663 | 0493 | 0664 | 0774 | 0777 | 0777 | 0777 | 0777 | 0777 | 0574 | 0776 | 0776 | 0653 | 0662 | 0774 | 0777 | 0777 | | |
| | 0063 | 0062 | 0031 | 0074 | 0074 | 0076 | 0044 | 0063 | 0093 | 0064 | 0074 | 0077 | 0077 | 0077 | 0077 | 0054 | 0076 | 0076 | 0053 | 0062 | 0074 | 0077 | 0077 | | | |
| | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | | | |
| | 64 | 65 | 66 | 68 | 69 | 70 | 71 | 72 | 74 | 75 | 77 | 78 | 79 | 80 | 81 | 83 | 84 | 86 | 87 | 88 | 89 | 90 | 91 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Adenoma Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | X | | | | | | | | | | | X | | | | | | | X | X |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | I | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | | | X | | | | | X | X | | | X | | | | X | X | | X | | |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | X | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma | | | | | | | | | X | | | | | | X | | | | | X | | | |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | + | | | | | | | | | | | | | | | | | | | | | | + |
| Abdominal, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Abdominal, Fat, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cystadenoma | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | X | |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--|
| | 0353 | 0662 | 0531 | 0774 | 0774 | 0777 | 0664 | 0466 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0575 | 0777 | 0666 | 0565 | 0666 | 0777 | 0777 | 0777 | 0777 | | |
| | 0533 | 0662 | 0531 | 0774 | 0774 | 0777 | 0664 | 0466 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0575 | 0777 | 0666 | 0565 | 0666 | 0777 | 0777 | 0777 | 0777 | | |
| | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | | |
| | 64 | 65 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | |

females
(cont...)

Sertoli Cell Tumor Benign

X

Oviduct

Uterus

+ +

Adenocarcinoma

X

Hemangiosarcoma

X

Lymphoma Malignant

Polyp Stromal

X X

X

X

X

Polyp Stromal, Multiple

Schwannoma Malignant

X

Cervix, Leiomyosarcoma

Cervix, Schwannoma Malignant

X

Vagina

Schwannoma Malignant

+

Schwannoma Malignant, Metastatic, Uterus

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+

+

+

+

Lymphoma Malignant

Bronchial, Lymphoma Malignant

Lumbar, Lymphoma Malignant

Mediastinal, Lymphoma Malignant

Pancreatic, Lymphoma Malignant

Renal, Lymphoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 3 | 6 | 5 | 7 | 7 | 7 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 7 |
| | 5 | 6 | 3 | 4 | 4 | 3 | 6 | 9 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 2 | 3 | 3 | 0 | 1 | 2 | 4 | 4 | 4 | 4 |
| | 3 | 2 | 1 | 4 | 0 | 7 | 2 | 2 | 4 | 4 | 1 | 9 | 4 | 4 | 0 | 9 | 4 | 7 | 9 | 8 | 3 | 2 | 0 | 1 | 4 | 4 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen
Hemangiosarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus
Lymphoma Malignant
Thymoma Benign
Thymoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | X | | | | | | | | | | | | | | X | | | | | | | | | |
| Fibroadenoma | | X | | X | X | | | X | X | X | X | | | | X | X | | X | X | | | | | | X | X |
| Fibroadenoma, Multiple | | | X | | | | X | | | | | | X | | | | | X | | | | X | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Subcutaneous Tissue, Fibroma | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Malignant Fibrous
Histiocytoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 6 | 5 | 7 | 7 | 7 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 7 | |
| | 5 | 6 | 3 | 4 | 4 | 3 | 6 | 9 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 2 | 3 | 3 | 0 | 1 | 2 | 4 | 4 | |
| | 3 | 2 | 1 | 4 | 0 | 7 | 2 | 2 | 4 | 4 | 1 | 9 | 4 | 4 | 0 | 9 | 4 | 7 | 9 | 8 | 3 | 2 | 0 | 4 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | |

Subcutaneous Tissue, Sarcoma

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

+ +

NERVOUS SYSTEM

Brain

+ +

Carcinoma, Metastatic, Pituitary Gland

X

Lymphoma Malignant

Meninges, Granular Cell Tumor Benign

X

Nerve Trigeminal

+ + + + + + M + + + + + + + + + + + + + + + + +

Peripheral Nerve, Sciatic

+ +

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

+ +

Lymphoma Malignant

Spinal Cord, Lumbar

+ +

Spinal Cord, Thoracic

+ +

Trigeminal Ganglion

+ + + + + + + M + + + + M + + + + + + + + + + + +

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|--|
| | 0
3
5
3 | 0
6
6
2 | 0
5
3
1 | 0
7
4
4 | 0
7
4
0 | 0
7
3
7 | 0
6
6
2 | 0
4
9
2 | 0
6
3
4 | 0
6
4
4 | 0
7
4
1 | 0
7
3
9 | 0
7
4
4 | 0
7
4
4 | 0
7
4
0 | 0
5
2
4 | 0
7
3
7 | 0
6
3
9 | 0
6
0
8 | 0
5
1
3 | 0
6
2
2 | 0
7
4
0 | 0
7
4
1 | 0
7
4
4 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0066664 | | |
| Lung
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Lymphoma Malignant
Bilateral, Renal Tubule, Carcinoma
Renal Tubule, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Urinary Bladder
Leiomyosarcoma
Schwannoma Malignant, Metastatic, Tissue
Nos | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 7 | 6 | 7 | 4 | 7 | 7 | 4 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | |
| 0.0W/kg(CDMA)chr | 3 | 6 | 4 | 8 | 3 | 0 | 9 | 3 | 3 | 3 | 5 | 3 | 4 | 3 | 2 | |
| ANIMAL ID | 9 | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | 84 |
| Intestine Large, Colon | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Granular Cell Tumor Benign | | | | | X | | | | | | | | | | | 1 |
| Intestine Small, Duodenum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 86 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 83 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma | X | | | | | X | | | | X | | X | | | | 7 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | 4 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0739 | 0668 | 0760 | 0449 | 0779 | 0742 | 0466 | 0773 | 0773 | 0570 | 0778 | 0770 | 0778 | 0629 | | |
| ANIMAL ID | 00694 | 00665 | 00666 | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Sarcoma | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Sarcoma, Metastatic, Stomach, Forestomach | | | | | | | | | | | | | | | | 1 |
| Tongue | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | 1 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | X | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Pheochromocytoma Benign | | | | | | | | | | | | X | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | * TOTALS |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0739 | 0668 | 0764 | 0489 | 0739 | 0742 | 0466 | 0733 | 0733 | 0750 | 0778 | 0770 | 0778 | 0778 | 0629 | |
| Islets, Pancreatic Adenoma Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| | | | | | | | | | | | | | | | X | 5 |
| | | | | | | | | | | | | | | | | 2 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pars Distalis, Adenoma | | | X | | | X | X | X | X | | | X | | X | X | 42 |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| C-cell, Adenoma | | | | | | | | | | | | | | X | | 6 |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | 1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| Tissue NOS | | + | | + | | | | | | | | | | | | 8 |
| Abdominal, Schwannoma Malignant | | | | X | | | | | | | | | | | | 1 |
| Abdominal, Fat, Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Cystadenoma | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 6 | 7 | 4 | 7 | 7 | 4 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 6 |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 3 | 6 | 4 | 8 | 3 | 0 | 9 | 3 | 3 | 5 | 3 | 4 | 3 | 2 | | |
| | 9 | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 9 | |
| 0.0W/kg(CDMA)chr | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | |

Sertoli Cell Tumor Benign

1

Oviduct

1

Uterus

+ + + + + + + + + + + + + + +

90

Adenocarcinoma

3

Hemangiosarcoma

2

Lymphoma Malignant

1

Polyp Stromal

X X X X X X X

15

Polyp Stromal, Multiple

1

Schwannoma Malignant

1

Cervix, Leiomyosarcoma

X

1

Cervix, Schwannoma Malignant

1

Vagina

2

Schwannoma Malignant

1

Schwannoma Malignant, Metastatic, Uterus

1

HEMATOPOIETIC SYSTEM

Bone Marrow

+ + + + + + + + + + + + + + +

90

Lymph Node

+ + + + +

13

Lymphoma Malignant

1

Bronchial, Lymphoma Malignant

1

Lumbar, Lymphoma Malignant

1

Mediastinal, Lymphoma Malignant

1

Pancreatic, Lymphoma Malignant

1

Renal, Lymphoma Malignant

1

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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Species/Strain: RATS/HSD

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 7 | 6 | 7 | 4 | 7 | 7 | 4 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 6 | | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | 3 | 6 | 4 | 8 | 3 | 0 | 9 | 3 | 3 | 3 | 5 | 3 | 4 | 3 | 2 | | | |
| | 9 | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 9 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | * TOTALS |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Lymph Node, Mandibular
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90
1 |
| Lymph Node, Mesenteric
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90
3 |
| Spleen
Hemangiosarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90
1
3 |
| Thymus
Lymphoma Malignant
Thymoma Benign
Thymoma Malignant | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | | 87
1
1
1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Adenoma, Multiple
Fibroadenoma
Fibroadenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90
9
1
4
4
34
29 |
| Skin
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Malignant Fibrous
Histiocytoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90
2
1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | | 7 | 6 | 7 | 4 | 7 | 7 | 4 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | |
| | | 3 | 6 | 4 | 8 | 3 | 0 | 9 | 3 | 3 | 3 | 5 | 3 | 4 | 3 | 2 | |
| | | 9 | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 9 | |
| 0.0W/kg(CDMA)chr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| * TOTALS | | | | | | | | | | | | | | | | | |

Subcutaneous Tissue, Sarcoma

2

MUSCULOSKELETAL SYSTEM

Bone + + + + + + + + + + + + + + 90

Skeletal Muscle + + + + + + + + + + + + + + 90

NERVOUS SYSTEM

Brain + + + + + + + + + + + + + + 90

Carcinoma, Metastatic, Pituitary Gland 1

Lymphoma Malignant 2

Meninges, Granular Cell Tumor Benign 1

Nerve Trigeminal + + + + M + + + + + + + + + 84

Peripheral Nerve, Sciatic + + + + + + + + + + + + + + 90

Peripheral Nerve, Tibial + + + + + + + + + + + + + + 90

Spinal Cord, Cervical + + + + + + + + + + + + + + 90

Lymphoma Malignant 1

Spinal Cord, Lumbar + + + + + + + + + + + + + + 90

Spinal Cord, Thoracic + + + + + + + + + + + + + + 90

Trigeminal Ganglion + + + + + + + + + + + + + + 81

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------|---|-----------|
| | 7 | 6 | 7 | 4 | 7 | 7 | 4 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 6 | | | | |
| HARLAN SPRAGUE DAWLEY RATS FEMALE
0.0W/kg(CDMA)chr | 3 | 6 | 4 | 8 | 3 | 0 | 9 | 3 | 3 | 3 | 5 | 3 | 4 | 3 | 2 | 9 | 0 | 0 | 0 | 0 |
| | 9 | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 9 | 9 | 9 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | 4 | 5 | 6 | 7 |
| | | | | | | | | | | | | | | | | | * TOTALS | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 2 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | | | | 89 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | | | | 88 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | 1 |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 88 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | X | | | | | | | | | | | | | 1 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 5 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0714 | 0739 | 0723 | 0740 | 0771 | 0769 | 0773 | 0777 | 0778 | 0779 | 0743 | 0774 | 0766 | 0733 | 0777 | 0777 | 0777 | 0755 | 0755 | 0773 | 0777 | 0777 | 0777 | 0777 |
| | ANIMAL ID | 0144 | 0114 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | |
|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|------|
| | 0714 | 0739 | 0773 | 0774 | 0775 | 0776 | 0777 | 0778 | 0779 | 0780 | 0781 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | 0790 | 0791 | 0792 | 0793 | 0794 | | | 0795 | 0796 |
| 1.5W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

Leukemia Mononuclear
Lymphoma Malignant

Stomach, Forestomach
Lymphoma Malignant

Stomach, Glandular
Lymphoma Malignant

CARDIOVASCULAR SYSTEM

Aorta

Heart

Leukemia Mononuclear
Lymphoma Malignant
Endocardium, Schwannoma Malignant
Myocardium, Schwannoma Malignant

X

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Leukemia Mononuclear
Lymphoma Malignant

Adrenal Medulla

Lymphoma Malignant
Pheochromocytoma Benign
Pheochromocytoma Malignant

X

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
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| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
1
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6 | | |

Islets, Pancreatic Adenoma Carcinoma +

Parathyroid Gland + + + + + + + + + + + + + + + + M + + + + + + + +

Pituitary Gland +

Leukemia Mononuclear
Lymphoma Malignant

Pars Distalis, Adenoma X X X X X X X X X X X X X
Pars Distalis, Adenoma, Multiple
Pars Distalis, Carcinoma X

Thyroid Gland +

Leukemia Mononuclear
Lymphoma Malignant

C-cell, Adenoma C-cell, Carcinoma Follicular Cell, Carcinoma X X X

GENERAL BODY SYSTEM

Tissue NOS + +

GENITAL SYSTEM

Clitoral Gland Lymphoma Malignant + + + + + + + + + + + + + + + + + + M + +

Ovary +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
Test Type: CHRONIC
Route: Whole Body Exposure
Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Cell Phone Radiation: CDMA
CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
Time Report Requested: 13:31:21
First Dose M/F: 09/16/12 / 09/16/12
Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | | |
| ANIMAL ID | 1 | 3 | 2 | 4 | 4 | 9 | 3 | 3 | 3 | 4 | 9 | 4 | 7 | 0 | 4 | 4 | 4 | 3 | 3 | 7 | 7 | 3 | 1 | 3 | 3 |
| | 4 | 9 | 3 | 0 | 1 | 6 | 9 | 8 | 9 | 0 | 3 | 1 | 5 | 0 | 1 | 0 | 4 | 7 | 9 | 8 | 9 | 8 | 1 | 8 | 9 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |

Cystadenocarcinoma
Leukemia Mononuclear
Lymphoma Malignant

Uterus
Carcinoma
Leukemia Mononuclear
Lymphoma Malignant
Polyp, Glandular
Polyp Stromal
Polyp Stromal, Multiple

Vagina
Polyp, Stromal

| | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | X | X | X | | | | | | X | | | | | | | |
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HEMATOPOIETIC SYSTEM

Bone Marrow
Leukemia Mononuclear

Lymph Node

Lymph Node, Mandibular
Leukemia Mononuclear
Lymphoma Malignant

Lymph Node, Mesenteric
Lymphoma Malignant

Spleen

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
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* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | |
| | 1 | 3 | 2 | 4 | 4 | 9 | 3 | 3 | 3 | 4 | 9 | 4 | 7 | 0 | 4 | 4 | 4 | 3 | 3 | 7 | 7 | 3 | 1 | 3 | |
| | 4 | 9 | 3 | 0 | 1 | 6 | 9 | 8 | 9 | 0 | 3 | 1 | 5 | 0 | 1 | 0 | 4 | 7 | 9 | 8 | 9 | 8 | 1 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glioma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neuroblastoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pineal Gland, Pinealoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
Test Type: CHRONIC
Route: Whole Body Exposure
Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
Time Report Requested: 13:31:21
First Dose M/F: 09/16/12 / 09/16/12
Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | |
| | 1 | 3 | 2 | 4 | 4 | 9 | 3 | 3 | 3 | 4 | 9 | 4 | 7 | 0 | 4 | 4 | 4 | 3 | 3 | 7 | 7 | 3 | 1 | 3 | |
| | 4 | 9 | 3 | 0 | 1 | 6 | 9 | 8 | 9 | 0 | 3 | 1 | 5 | 0 | 1 | 0 | 4 | 7 | 9 | 8 | 9 | 8 | 1 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | |

Lymphoma Malignant

Trigeminal Ganglion

+ + + M + I + M + + + + + + + + + + + + + + + M + +

RESPIRATORY SYSTEM

Lung

+ +

Adenocarcinoma, Metastatic, Mammary Gland

Carcinoma, Metastatic, Thyroid Gland

Carcinoma, Metastatic, Uncertain Primary Site

X

Leukemia Mononuclear

Lymphoma Malignant

Nose

+ +

Leukemia Mononuclear

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Leukemia Mononuclear

Sarcoma

Harderian Gland

+ +

Leukemia Mononuclear

URINARY SYSTEM

Kidney

+ +

Leukemia Mononuclear

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 04 | 07 | 06 | 03 | 07 | 07 | 07 | 07 | 05 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | |
| | ANIMAL ID | 14 | 13 | 12 | 14 | 14 | 19 | 13 | 13 | 13 | 14 | 19 | 10 | 13 | 11 | 15 | 10 | 11 | 10 | 14 | 14 | 13 | 13 | 17 | 17 | 13 | 11 | 13 | 13 | |
| | | 04 | 09 | 03 | 00 | 01 | 06 | 09 | 08 | 09 | 00 | 03 | 01 | 05 | 00 | 00 | 01 | 00 | 04 | 07 | 09 | 08 | 09 | 03 | 08 | 01 | 03 | 03 | 09 | |
| | | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | |
| | | 67 | 78 | 89 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | |

females
(cont...)

Lymphoma Malignant

Urinary Bladder

+ +

SYSTEMIC LESIONS

Multiple Organ

Leukemia Mononuclear

Lymphoma Malignant

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0737 | 0738 | 0674 | 0661 | 0773 | 0773 | 0664 | 0771 | 0334 | 0773 | 0664 | 0667 | 0764 | 0651 | 0774 | 0660 | 0664 | 0772 | 0774 | 0661 | 0773 | 0773 | |
| | ANIMAL ID | 0143 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 |
| | | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | X | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | + | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0737 | 0738 | 0674 | 0669 | 0741 | 0738 | 0679 | 0668 | 0734 | 0730 | 0679 | 0664 | 0751 | 0674 | 0665 | 0774 | 0660 | 0667 | 0724 | 0774 | 0661 | 0733 | 0738 | females
(cont...) | |
| | ANIMAL ID | 01473 | 01445 | 01146 | 01144 | 01147 | 01148 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01145 | | 01141 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

Leukemia Mononuclear
Lymphoma Malignant

X

Stomach, Forestomach
Lymphoma Malignant

+ +

Stomach, Glandular
Lymphoma Malignant

+ +

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart

+ +

Leukemia Mononuclear
Lymphoma Malignant

X

Endocardium, Schwannoma Malignant

X

Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma

Leukemia Mononuclear

Lymphoma Malignant

X

Adrenal Medulla

+ +

Lymphoma Malignant

Pheochromocytoma Benign

X

Pheochromocytoma Malignant

X

X

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|---|---|
| | 0737 | 0738 | 0674 | 0679 | 0743 | 0733 | 0734 | 0674 | 0731 | 0739 | 0730 | 0739 | 0674 | 0675 | 0744 | 0676 | 0677 | 0674 | 0742 | 0744 | 0671 | 0733 | | 0738 | | |
| Islets, Pancreatic Adenoma Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | + | + | + | + | + | M | + | M | M | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | M | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | X | X | X | X | X | | X | | | | X | | X | X | | | X | X | X | | | X | | |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | | | X | | | | | X | | | | | | X | | | | X | | | | |
| C-cell, Carcinoma | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females
(cont...) | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|
| | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 3 | 7 | 7 | 6 | 6 | 7 | 6 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | | | 7 |
| | 3 | 3 | 7 | 9 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 1 | 5 | 4 | 1 | 7 | 4 | 0 | 4 | 4 | 2 | 4 | 1 | 3 | 3 | 3 | | | |
| | 7 | 8 | 4 | 6 | 1 | 8 | 8 | 9 | 1 | 9 | 0 | 9 | 4 | 7 | 1 | 4 | 0 | 4 | 5 | 7 | 4 | 4 | 0 | 2 | 7 | 8 | 8 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 9 | 9 | 1 | | | |

Cystadenocarcinoma
 Leukemia Mononuclear
 Lymphoma Malignant

Uterus
 Carcinoma
 Leukemia Mononuclear
 Lymphoma Malignant
 Polyp, Glandular
 Polyp Stromal
 Polyp Stromal, Multiple

Vagina
 Polyp, Stromal

HEMATOPOIETIC SYSTEM

Bone Marrow
 Leukemia Mononuclear

Lymph Node

Lymph Node, Mandibular
 Leukemia Mononuclear
 Lymphoma Malignant

Lymph Node, Mesenteric
 Lymphoma Malignant

Spleen

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
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* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0737 | 0738 | 0674 | 0661 | 0778 | 0778 | 0669 | 0771 | 0339 | 0740 | 0739 | 0664 | 0667 | 0764 | 0661 | 0574 | 0764 | 0664 | 0772 | 0774 | 0661 | 0737 | 0738 | females
(cont...) |
| | ANIMAL ID | 0143 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0145 | |

Leukemia Mononuclear
Lymphoma Malignant

X

Thymus
Lymphoma Malignant

+ +

INTEGUMENTARY SYSTEM

Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant

+
X
X
X X X X X X X
X X

Skin
Keratoacanthoma
Subcutaneous Tissue, Lymphoma Malignant
Subcutaneous Tissue, Squamous Cell Carcinoma

+ +

MUSCULOSKELETAL SYSTEM

Bone
Skeletal Muscle
Lymphoma Malignant

+
+ +

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0737 | 0738 | 0764 | 0766 | 0771 | 0777 | 0778 | 0766 | 0773 | 0773 | 0744 | 0744 | 0733 | 0743 | 0731 | 0765 | 0774 | 0760 | 0774 | 0766 | 0766 | 0772 | 0774 | 0761 | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glioma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neuroblastoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Pineal Gland, Pinealoma | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | |
|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|------|------|
| | 0737 | 0738 | 0764 | 0766 | 0774 | 0777 | 0778 | 0769 | 0773 | 0773 | 0744 | 0744 | 0733 | 0743 | 0731 | 0765 | 0744 | 0714 | 0770 | 0744 | 0765 | 0766 | 0774 | 0777 | | | 0766 | 0777 | 0767 |
| 1.5W/kg(CDMA)chr | 0147 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 | 0144 |

Lymphoma Malignant

Trigeminal Ganglion

RESPIRATORY SYSTEM

Lung

Adenocarcinoma, Metastatic, Mammary Gland

Carcinoma, Metastatic, Thyroid Gland

Carcinoma, Metastatic, Uncertain Primary Site

Leukemia Mononuclear

Lymphoma Malignant

Nose

Leukemia Mononuclear

Trachea

SPECIAL SENSES SYSTEM

Eye

Leukemia Mononuclear

Sarcoma

Harderian Gland

Leukemia Mononuclear

URINARY SYSTEM

Kidney

Leukemia Mononuclear

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 077 | 076 | 066 | 077 | 077 | 077 | 066 | 077 | 033 | 077 | 077 | 066 | 066 | 077 | 066 | 055 | 077 | 066 | 066 | 077 | 077 | 066 | 077 | 077 | females
(cont...) |
| | ANIMAL ID | 01473 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | 01144 | |

Lymphoma Malignant

Urinary Bladder

+ + + + + + + A + + + + + + + + + + + + + + + + + +

SYSTEMIC LESIONS

Multiple Organ

Leukemia Mononuclear

Lymphoma Malignant

+
X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 0729 | 0706 | 0701 | 0703 | 0703 | 0700 | 0703 | 0704 | 0707 | 0704 | 0703 | 0703 | 0703 | 0706 | 0706 | 0705 | 0706 | 0707 | 0704 | 0707 | 0703 | 0706 | 0707 | 0706 | 0707 | females
(cont...) |
| | ANIMAL ID | 0150 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | 0155 | |
| | | 4501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | 5501 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | A | A | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | A | A | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | X | | | | | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 079 | 076 | 071 | 073 | 078 | 070 | 073 | 074 | 077 | 078 | 074 | 071 | 078 | 079 | 065 | 066 | 055 | 062 | 074 | 074 | 046 | 044 | 044 | 031 | 026 | 074 | 064 | 073 | 009 | |
| | ANIMAL ID | 01504 | 01505 | 01501 | 01505 | 01505 | 01505 | 01505 | 01505 | 01505 | 01505 | 01505 | 01505 | 01505 | 01502 | 01502 | 01502 | 01502 | 01502 | 01502 | 01502 | 01502 | 01502 | 01502 | 01502 | 01502 | 01503 | 01503 | 01503 | 01503 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

Leukemia Mononuclear
Lymphoma Malignant

X

Stomach, Forestomach
Lymphoma Malignant

+
X

Stomach, Glandular
Lymphoma Malignant

+
X

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart

+ +

Leukemia Mononuclear
Lymphoma Malignant

X X

Endocardium, Schwannoma Malignant
Myocardium, Schwannoma Malignant

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma

X

Leukemia Mononuclear
Lymphoma Malignant

X

X

Adrenal Medulla

+ +

Lymphoma Malignant

X

Pheochromocytoma Benign

X

Pheochromocytoma Malignant

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|---|---|
| | 0729 | 0776 | 0771 | 0773 | 0773 | 0778 | 0770 | 0773 | 0774 | 0774 | 0777 | 0778 | 0779 | 0775 | 0776 | 0776 | 0775 | 0773 | 0774 | 0774 | 0773 | 0776 | | 0777 | 0776 | 0777 | | |
| Islets, Pancreatic Adenoma Carcinoma | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | M | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | X | | X | X | | | X | | | | | | X | X | | | | | | | | X | | | X | X | X | |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | X | | | | | | | | | | X | | | | | | | | | | | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | + | | | | | | | | | + | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | |
| | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 4 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 7 | 4 | 7 | 3 | 6 | | 7 | 6 | 7 |
| | 2 | 0 | 1 | 3 | 3 | 0 | 3 | 4 | 0 | 4 | 3 | 3 | 3 | 6 | 5 | 2 | 4 | 4 | 6 | 4 | 1 | 2 | 4 | 4 | 3 |
| | 9 | 6 | 1 | 1 | 8 | 0 | 7 | 4 | 7 | 1 | 8 | 9 | 5 | 0 | 0 | 3 | 1 | 4 | 4 | 9 | 8 | 4 | 9 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | 4 | 5 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Cystadenocarcinoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | X X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | + | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp, Glandular | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | X X | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp, Stromal | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
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9 | 0
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6 | 0
7
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1 | 0
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1 | 0
7
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8 | 0
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4 | 0
1
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5 | 0
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6 | 0
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7 | 0
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9 | 0
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3 | 0
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4 | 0
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2
5 | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
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3
0 | 0
1
5
3
1 | 0
1
5
3
2 | 0
1
5
3
3 | 0
1
5
3
4 |

Leukemia Mononuclear
Lymphoma Malignant

X X

X

Thymus
Lymphoma Malignant

+ + + I + + + + + I + + + + M + + + + + + + +

X

INTEGUMENTARY SYSTEM

Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant

+
X
X
X

Skin
Keratoacanthoma
Subcutaneous Tissue, Lymphoma Malignant
Subcutaneous Tissue, Squamous Cell
Carcinoma

+
X
X

MUSCULOSKELETAL SYSTEM

Bone
Skeletal Muscle
Lymphoma Malignant

+
+
X

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0729 | 0720 | 0771 | 0773 | 0777 | 0773 | 0730 | 0773 | 0774 | 0740 | 0774 | 0773 | 0773 | 0763 | 0766 | 0755 | 0766 | 0775 | 0774 | 0746 | 0774 | 0731 | 0766 | 0774 | 0767 | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Neuroblastoma | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pineal Gland, Pinealoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|---|--|
| | 0729 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 4 | 5 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |

Lymphoma Malignant

X

Trigeminal Ganglion

I + + + + + M + + + + + + + + M + + M + + + + +

RESPIRATORY SYSTEM

Lung

+ +

Adenocarcinoma, Metastatic, Mammary Gland

Carcinoma, Metastatic, Thyroid Gland

Carcinoma, Metastatic, Uncertain Primary Site

Leukemia Mononuclear

Lymphoma Malignant

X X X

Nose

+ A +

Leukemia Mononuclear

X

Trachea

+ A +

SPECIAL SENSES SYSTEM

Eye

+ A + + + + + + + A + + + A + + + + + + + + + + + +

Leukemia Mononuclear

Sarcoma

X X

Harderian Gland

Leukemia Mononuclear

+ X

URINARY SYSTEM

Kidney

+ +

Leukemia Mononuclear

X X

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | 079 | 076 | 071 | 073 | 078 | 070 | 077 | 074 | 077 | 077 | 076 | 066 | 065 | 066 | 077 | 074 | 074 | 074 | 039 | 068 | 074 | 064 | 073 | 067 | 067 | females
(cont...) |
| | ANIMAL ID | 0154 | 0155 | 0150 | 0151 | 0152 | 0153 | 0154 | 0155 | 0156 | 0157 | 0158 | 0159 | 0160 | 0161 | 0162 | 0163 | 0164 | 0165 | 0166 | 0167 | 0168 | 0169 | 0170 | 0171 | 0172 | |
| | | 079 | 076 | 071 | 073 | 078 | 070 | 077 | 074 | 077 | 077 | 076 | 066 | 065 | 066 | 077 | 074 | 074 | 074 | 039 | 068 | 074 | 064 | 073 | 067 | 067 | |

Lymphoma Malignant

X

Urinary Bladder

+ A +

SYSTEMIC LESIONS

Multiple Organ

+ +

Leukemia Mononuclear

X X

Lymphoma Malignant

X

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | |
| | | 4 | 7 | 3 | 4 | 9 | 2 | 4 | 0 | 4 | 1 | 9 | 9 | 5 | 9 | 3 | |
| | | 0 | 6 | 2 | 0 | 9 | 9 | 1 | 0 | 0 | 1 | 5 | 9 | 6 | 9 | 7 | |
| | 1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 82 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Intestine Small, Ileum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Small, Jejunum | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 81 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | 2 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 3 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | + | + | | 3 |
| Oral Mucosa | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|-----------------|
| | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | | | |
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 4 | 7 | 3 | 4 | 9 | 2 | 4 | 0 | 4 | 1 | 9 | 9 | 5 | 9 | 5 | 9 | 3 | | | |
| 1.5W/kg(CDMA)chr | 0 | 6 | 2 | 0 | 9 | 9 | 1 | 0 | 0 | 1 | 5 | 9 | 6 | 9 | 6 | 7 | 7 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | | |
| | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | 3 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Myocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Adenoma | | | | | | | X | | | | | | | | | | | | | 2 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Benign | | | | | | | X | | | X | | | | | | | | | | 7 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|
| | 0
7
4
0 | 0
6
7
6 | 0
5
3
2 | 0
7
4
0 | 0
6
9
9 | 0
7
2
9 | 0
7
4
1 | 0
3
0
0 | 0
7
4
0 | 0
7
1
0 | 0
6
9
5 | 0
6
9
6 | 0
6
5
6 | 0
6
9
9 | 0
7
3
7 | |
| ANIMAL ID | 0
1
5
3
4 | 0
1
5
3
5 | 0
1
5
3
6 | 0
1
5
4
7 | 0
1
5
4
0 | 0
1
5
4
1 | 0
1
5
4
2 | 0
1
5
4
3 | 0
1
5
4
4 | 0
1
5
4
4 | 0
1
5
4
5 | 0
1
5
4
6 | 0
1
5
4
7 | 0
1
5
4
8 | 0
1
5
4
9 | 0
1
5
5
0 |
| Islets, Pancreatic
Adenoma
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89
4
2 |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Pituitary Gland
Leukemia Mononuclear
Lymphoma Malignant
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple
Pars Distalis, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89
3
1
40
1
1 |
| Thyroid Gland
Leukemia Mononuclear
Lymphoma Malignant
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1
1
9
3
1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | 11 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | |
| Clitoral Gland
Lymphoma Malignant | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 88
1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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Experiment Number: 20105 - 56

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS | 4 | 7 | 3 | 4 | 9 | 2 | 4 | 0 | 4 | 1 | 9 | 9 | 5 | 9 | 9 | 3 | |
| FEMALE | 0 | 6 | 2 | 0 | 9 | 9 | 1 | 0 | 0 | 1 | 5 | 9 | 6 | 9 | 7 | | |
| 1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |
| | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

| | |
|----------------------|---|
| Cystadenocarcinoma | 1 |
| Leukemia Mononuclear | 2 |
| Lymphoma Malignant | 1 |

| | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Carcinoma | | | | | | | | | | | | | X | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Polyp, Glandular | | | | | | | | | | | | | | | | | 2 |
| Polyp Stromal | | | | | | | | | | | | | | | | | 11 |
| Polyp Stromal, Multiple | | | | | | | | | | | | | | | | | 4 |

| | |
|----------------|---|
| Vagina | 1 |
| Polyp, Stromal | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |

| | | | | | | | | | | | | | | | | | |
|------------|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|--|---|
| Lymph Node | | | | + | | | + | | | | | | | | | | 8 |
|------------|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|--|---|

| | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |

| | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |

| | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Experiment Number: 20105 - 56

Test Type: CHRONIC

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 7 |
| 1.5W/kg(CDMA)chr | | 4 | 7 | 3 | 4 | 9 | 2 | 4 | 0 | 4 | 1 | 9 | 9 | 5 | 9 | 3 | 7 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |
| * TOTALS | | | | | | | | | | | | | | | | | |

Leukemia Mononuclear
Lymphoma Malignant

3
1

Thymus
Lymphoma Malignant

+ + + + M + + + + + M + + +

83
1

INTEGUMENTARY SYSTEM

Mammary Gland
Adenocarcinoma
Adenocarcinoma, Multiple
Adenoma
Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant

+ + + + + + + + + + + + + +
X
X
X X X
X X X X X
X

90
7
1
4
40
21
1

Skin
Keratoacanthoma
Subcutaneous Tissue, Lymphoma Malignant
Subcutaneous Tissue, Squamous Cell Carcinoma

+ + + + + + + + + + + + + +
X

90
1
1
2

MUSCULOSKELETAL SYSTEM

Bone
Skeletal Muscle
Lymphoma Malignant

+ + + + + + + + + + + + + +
+ + + + + + + + + + + + + +

90
90
1

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
4
0 | 0
6
7
6 | 0
5
3
2 | 0
7
4
0 | 0
6
9
9 | 0
7
2
9 | 0
7
4
1 | 0
3
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0 | 0
7
4
0 | 0
7
1
0 | 0
6
9
5 | 0
6
9
9 | 0
6
5
6 | 0
6
9
9 | 0
7
3
7 | |
| ANIMAL ID | 0
1
5
3
4 | 0
1
5
3
5 | 0
1
5
3
6 | 0
1
5
3
7 | 0
1
5
4
0 | 0
1
5
4
1 | 0
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5
4
2 | 0
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5
4
3 | 0
1
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4
4 | 0
1
5
4
4 | 0
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4
5 | 0
1
5
4
6 | 0
1
5
4
7 | 0
1
5
4
8 | 0
1
5
4
9 | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Glioma Malignant | | | | | | | | | | | | | | | 3 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | 2 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Neuroblastoma | | | | | | | | | | | | | | | 1 | |
| Sarcoma | | | | | | | | | X | | | | | | 1 | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | 1 | |
| Pineal Gland, Pinealoma | | | | | | | | | | | | | | | 1 | |
| Nerve Trigeminal | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 84 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | 1 | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | 2 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | 1 | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS | 4 | 7 | 3 | 4 | 9 | 2 | 4 | 0 | 4 | 1 | 9 | 9 | 5 | 9 | 3 | 9 | 3 | 9 |
| FEMALE | 0 | 6 | 2 | 0 | 9 | 9 | 1 | 0 | 0 | 1 | 5 | 9 | 6 | 9 | 7 | 7 | 7 | 7 |
| 1.5W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| | * TOTALS | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Trigeminal Ganglion | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | 77 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | 90 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | 2 |
| Carcinoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | 2 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | 89 |
| | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | 88 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | 86 |
| Sarcoma | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | 90 |
| | | | | | | | | | | | | | | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | 90 |
| | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | DAY ON TEST | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 |
| | | 4 | 7 | 3 | 4 | 9 | 2 | 4 | 0 | 4 | 1 | 9 | 9 | 5 | 9 | 3 | |
| | | 0 | 6 | 2 | 0 | 9 | 9 | 1 | 0 | 0 | 1 | 5 | 9 | 6 | 9 | 7 | |
| | 1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 3 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56
Test Type: CHRONIC
Route: Whole Body Exposure
Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Cell Phone Radiation: CDMA
CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
Time Report Requested: 13:31:21
First Dose M/F: 09/16/12 / 09/16/12
Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE
3.0W/kg(CDMA)chr | ANIMAL ID | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 4 | 3 | 3 | 3 | 4 | 7 | 3 | 4 | 3 | 3 |
| | | 5 | 7 | 8 | 8 | 5 | 4 | 4 | 9 | 1 | 9 | 1 | 9 | 9 | 3 | 8 | 1 | 9 | 9 | 8 | 4 | 4 | 7 | 1 | 8 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 7 | 8 | 3 | 4 | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | + | | | | + | | | | | | + | | | + | | | | |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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4 | |

Pancreas
Lymphoma Malignant

+ + + + + + + + X + + + + + + + + + + + + + + + + +

Salivary Glands
Lymphoma Malignant

+ + + + + + + + X + + + + + + + + + + + + + + + + +

Stomach, Forestomach
Lymphoma Malignant

+ + + + + + + + X + + + + + + + + + + + + + + + + +

Stomach, Glandular
Lymphoma Malignant

+ + + + + + + + X + + + + + + + + + + + + + + + + +

CARDIOVASCULAR SYSTEM

Aorta
Lymphoma Malignant

+ +

Heart
Adenocarcinoma, Metastatic, Mammary Gland
Lymphoma Malignant

+ + + + + + + + + + + + + + X + + + + + + + + + + + +

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Carcinoma
Lymphoma Malignant

+ +

Adrenal Medulla
Lymphoma Malignant

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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9 |

Pheochromocytoma Benign
Pheochromocytoma Complex
Pheochromocytoma Malignant

X

Islets, Pancreatic
Adenoma

+
X

Parathyroid Gland
Lymphoma Malignant

+ + + + + + + + + + + + M + + + + + + + M + +

Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma
Pars Distalis, Carcinoma

+
X X X

Thyroid Gland
Lymphoma Malignant
Bilateral, C-cell, Carcinoma
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma

+
X X

GENERAL BODY SYSTEM

Tissue NOS
Abdominal, Fat, Lipoma

+ +

GENITAL SYSTEM

Clitoral Gland

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>HARLAN SPRAGUE DAWLEY RATS
 FEMALE
 3.0W/kg(CDMA)chr</p> | DAY ON TEST | 0545 | 0737 | 0738 | 0738 | 0745 | 0744 | 0744 | 059 | 059 | 066 | 066 | 076 | 069 | 076 | 077 | 077 | 077 | 067 | 076 | 077 | 077 | 077 | 077 | 077 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 |
| | ANIMAL ID | 01656 | 01657 | 01658 | 01659 | 01660 | 01661 | 01662 | 01663 | 01664 | 01665 | 01666 | 01667 | 01668 | 01669 | 01670 | 01671 | 01672 | 01673 | 01674 | 01675 | 01676 | 01677 | 01678 | 01679 | 01680 | 01681 | 01682 | 01683 | 01684 | 01685 | 01686 | 01687 |
| | Sex | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Carcinoma
Lymphoma Malignant

Ovary
Lymphoma Malignant
Rete Ovarii, Adenoma

Uterus
Adenoma
Histiocytic Sarcoma
Leiomyosarcoma
Lymphoma Malignant
Polyp, Glandular
Polyp Stromal
Polyp Stromal, Multiple
Squamous Cell Carcinoma
Cervix, Polyp Stromal
Cervix, Schwannoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
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| | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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HEMATOPOIETIC SYSTEM

Bone Marrow
Lymph Node
Bronchial, Lymphoma Malignant
Mediastinal, Lymphoma Malignant
Pancreatic, Lymphoma Malignant
Lymph Node, Mandibular
Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
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* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric
Histiocytic Sarcoma, Metastatic, Uterus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | |
| Spleen
Histiocytic Sarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + |
| Thymus
Lymphoma Malignant
Thymoma Benign | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Adenocarcinoma
Adenoma
Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin
Keratoacanthoma
Lymphoma Malignant
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Lipoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 4 | 3 | 3 | 3 | 4 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 7 | 8 | 8 | 5 | 4 | 4 | 9 | 1 | 9 | 1 | 9 | 9 | 3 | 8 | 1 | 9 | 9 | 9 | 8 | 4 | 4 | 7 | 8 | 4 | 4 | 4 | 4 |
| 3.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 4 | 4 |

females (cont...)

Vertebra, Chondroma

Skeletal Muscle

Lymphoma Malignant

+ +

NERVOUS SYSTEM

Brain

Lymphoma Malignant

+ +

Nerve Trigeminal

+ +

Peripheral Nerve, Sciatic

Lymphoma Malignant

+ +

Peripheral Nerve, Tibial

Lymphoma Malignant

+ +

Spinal Cord, Cervical

Lymphoma Malignant

+ +

Spinal Cord, Lumbar

Lymphoma Malignant

+ +

Spinal Cord, Thoracic

Lymphoma Malignant

+ +

Trigeminal Ganglion

Carcinoma, Metastatic, Pituitary Gland

+ + + + + + + M + + + + + + + + + + + + + M + +

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 1 | 0 |
| 5 | 7 | 7 | 8 | 8 | 5 | 4 | 4 | 9 | 1 | 9 | 1 | 9 | 9 | 3 | 8 | 1 | 9 | 9 | 8 | 4 | 7 | 3 | 4 | 8 | 6 | 0 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 7 | 0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | |
| Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | | |
| | | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 4 | 3 | 3 | 3 | 4 | 7 | 3 | 4 | 3 | 3 | | |
| | | 5 | 7 | 8 | 8 | 5 | 4 | 4 | 9 | 1 | 9 | 1 | 9 | 9 | 3 | 8 | 1 | 9 | 9 | 8 | 4 | 4 | 7 | 1 | 8 | 8 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | |

Bilateral, Renal Tubule, Carcinoma
Perirenal Tissue, Lymphoma Malignant
Renal Tubule, Adenoma

X

Urinary Bladder
Lymphoma Malignant

+ +

SYSTEMIC LESIONS

Multiple Organ
Histiocytic Sarcoma
Lymphoma Malignant

+ +

X

X

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | DAY ON TEST | 0741 | 0739 | 0728 | 0775 | 0776 | 0777 | 0777 | 0777 | 0777 | 0746 | 0774 | 0777 | 0766 | 0776 | 0755 | 0766 | 0777 | 0777 | 0777 | 0777 | 0744 | 0774 | 0776 | 0766 |
| | ANIMAL ID | 01685 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Histiocytic Sarcoma, Metastatic, Uterus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | |
| Intestine Large, Colon
Histiocytic Sarcoma, Metastatic, Uterus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| Intestine Large, Rectum
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |
| Intestine Small, Ileum
Lymphoma Malignant | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |
| Liver
Carcinoma, Metastatic, Adrenal Cortex
Hepatocellular Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery
Histiocytic Sarcoma, Metastatic, Uterus
Lymphoma Malignant | | | | | | | | | | + | | | | | | | | + | | | + | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|
| | 0741 | 07439 | 07268 | 07707 | 07745 | 07678 | 07711 | 07744 | 07744 | 07744 | 07739 | 07746 | 07770 | 07774 | 07663 | 07744 | 07744 | 07664 | 07770 | 07773 | 07773 | 07728 | 07741 | 07741 | | |
| | 01685 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 |

Pancreas
Lymphoma Malignant

+
X

Salivary Glands
Lymphoma Malignant

+ +

Stomach, Forestomach
Lymphoma Malignant

+
X

Stomach, Glandular
Lymphoma Malignant

+ A + +
X

CARDIOVASCULAR SYSTEM

Aorta
Lymphoma Malignant

+ +

Heart
Adenocarcinoma, Metastatic, Mammary Gland
Lymphoma Malignant

+
X

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Carcinoma
Lymphoma Malignant

+
X

Adrenal Medulla
Lymphoma Malignant

+ + + + + + + + + + + + + + + + + I + + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0741 | 0739 | 0728 | 0770 | 0775 | 0768 | 0777 | 0777 | 0777 | 0777 | 0746 | 0774 | 0777 | 0766 | 0776 | 0755 | 0766 | 0777 | 0777 | 0777 | 0772 | 0773 | 0744 | 0771 | 0774 | 0767 | 0765 |
| | ANIMAL ID | 01685 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 | 01168 |

females (cont...)

Pheochromocytoma Benign
Pheochromocytoma Complex
Pheochromocytoma Malignant

X

Islets, Pancreatic
Adenoma

+
X

Parathyroid Gland
Lymphoma Malignant

M + + + + + + + + + + + M + + + M + + + + + + + +

Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma
Pars Distalis, Carcinoma

+
X X X X X X X X X X

Thyroid Gland
Lymphoma Malignant
Bilateral, C-cell, Carcinoma
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma

+
X

GENERAL BODY SYSTEM

Tissue NOS
Abdominal, Fat, Lipoma

+
X

GENITAL SYSTEM

Clitoral Gland

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0741 | 0739 | 0728 | 0770 | 0775 | 0768 | 0777 | 0777 | 0777 | 0777 | 0744 | 0774 | 0777 | 0766 | 0776 | 0755 | 0766 | 0777 | 0777 | 0777 | 0772 | 0773 | 0778 | 0744 | 0771 | 0772 | 0765 |
| | ANIMAL ID | 01685 | 01168 | 01116 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 |

females (cont...)

Carcinoma
Lymphoma Malignant

Ovary
Lymphoma Malignant
Rete Ovarii, Adenoma

Uterus
Adenoma
Histiocytic Sarcoma
Leiomyosarcoma
Lymphoma Malignant
Polyp, Glandular
Polyp Stromal
Polyp Stromal, Multiple
Squamous Cell Carcinoma
Cervix, Polyp Stromal
Cervix, Schwannoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

Bone Marrow
Lymph Node
Bronchial, Lymphoma Malignant
Mediastinal, Lymphoma Malignant
Pancreatic, Lymphoma Malignant
Lymph Node, Mandibular
Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0741 | 0739 | 0728 | 0770 | 0774 | 0765 | 0777 | 0777 | 0777 | 0777 | 0744 | 0777 | 0777 | 0766 | 0777 | 0755 | 0766 | 0777 | 0777 | 0777 | 0777 | 0744 | 0777 | 0766 | 0777 | 0744 | 0777 | 0766 |
| | ANIMAL ID | 01685 | 01166 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 |
| | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Lymph Node, Mesenteric
 Histiocytic Sarcoma, Metastatic, Uterus
 Lymphoma Malignant

+
 X

Spleen
 Histiocytic Sarcoma
 Lymphoma Malignant

+
 X

Thymus
 Lymphoma Malignant
 Thymoma Benign

+
 X X
 X

INTEGUMENTARY SYSTEM

Mammary Gland
 Adenocarcinoma
 Adenoma
 Fibroadenoma
 Fibroadenoma, Multiple
 Lymphoma Malignant

+
 X X
 X X X X
 X X
 X X
 X X
 X

Skin
 Keratoacanthoma
 Lymphoma Malignant
 Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Lipoma

+
 X

MUSCULOSKELETAL SYSTEM

Bone

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | ANIMAL ID | 7 | 7 | 2 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | | | | | | | |
| Vertebra, Chondroma | | 4 | 3 | 6 | 0 | 4 | 7 | 4 | 4 | 4 | 3 | 1 | 4 | 0 | 6 | 4 | 4 | 4 | 3 | 0 | 3 | 2 | 8 | 1 | 7 | 4 | 2 | 5 | 2 | | | |
| Skeletal Muscle | | 1 | 9 | 8 | 7 | 5 | 8 | 1 | 0 | 0 | 9 | 6 | 0 | 4 | 3 | 0 | 5 | 3 | 7 | 2 | 7 | 8 | 1 | 7 | 4 | 2 | 5 | 2 | | | | |
| Lymphoma Malignant | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | |
| | | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | M | + | + | I | I | + | + | + | + | + | + | + | | |
| Peripheral Nerve, Sciatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Tibial | | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE

3.0W/kg(CDMA)chr | DAY ON TEST | 0741 | 0739 | 0728 | 0777 | 0765 | 0777 | 0777 | 0777 | 0777 | 0744 | 0777 | 0777 | 0766 | 0777 | 0755 | 0766 | 0777 | 0777 | 0777 | 0777 | 0744 | 0777 | 0766 |
| | ANIMAL ID | 01685 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | |
| Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0741 | 0739 | 0728 | 0770 | 0774 | 0768 | 0777 | 0777 | 0777 | 0777 | 0744 | 0774 | 0777 | 0766 | 0776 | 0755 | 0766 | 0777 | 0777 | 0777 | 0777 | 0744 | 0774 | 0777 | 0766 | 0777 |
| | ANIMAL ID | 01685 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 | 01166 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

Bilateral, Renal Tubule, Carcinoma X X
 Perirenal Tissue, Lymphoma Malignant
 Renal Tubule, Adenoma X

Urinary Bladder +
 Lymphoma Malignant

SYSTEMIC LESIONS

Multiple Organ +
 Histiocytic Sarcoma
 Lymphoma Malignant X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 20105 - 56

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Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | | 5 | 5 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 6 | |
| HARLAN SPRAGUE DAWLEY RATS FEMALE | | 4 | 1 | 1 | 3 | 5 | 4 | 3 | 4 | 1 | 8 | 5 | 4 | 3 | 4 | 4 | 2 | 4 | 9 | 9 | 4 | 4 | 1 | 4 | 3 | |
| 3.0W/kg(CDMA)chr | | 5 | 6 | 6 | 8 | 6 | 4 | 7 | 0 | 1 | 3 | 0 | 4 | 7 | 8 | 0 | 7 | 5 | 8 | 3 | 0 | 4 | 1 | 4 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | | |
| | | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 7 | 9 | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | X | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | X |
| Mesentery | | | | | + | | | | | | | | | | | | | | | + | | | | |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
| | 0545 | 0546 | 0547 | 0548 | 0549 | 0550 | 0551 | 0552 | 0553 | 0554 | 0555 | 0556 | 0557 | 0558 | 0559 | 0560 | 0561 | 0562 | 0563 | 0564 | 0565 | 0566 | 0567 | 0568 | | |
| 3.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Pancreas
Lymphoma Malignant

+ + + + + + + + + + X + + + + + + + + + + + + + + +

Salivary Glands
Lymphoma Malignant

+ + + + + + + + + + X + + + + + + + + + + + + + + +

Stomach, Forestomach
Lymphoma Malignant

+ + + + + + + + + + X + + + + + + + + + + + + + + +

Stomach, Glandular
Lymphoma Malignant

+ + + + + + + + + + X + + + + + + + + + + + + + + +

CARDIOVASCULAR SYSTEM

Aorta
Lymphoma Malignant

+ + + + + + + + + + X + + + + + + + + + + + + + + +

Heart
Adenocarcinoma, Metastatic, Mammary Gland
Lymphoma Malignant

+ + + + + + + + + + X + + + + + + + + + + + + + + +

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma
Carcinoma
Lymphoma Malignant

+ + + + X + + + + + + + + + + + + + + + X + + + +

Adrenal Medulla
Lymphoma Malignant

+ + + + + + + I + + + + + + + + + + M + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| | 0
5
4
5 | 0
5
4
5 | 0
0
1
6 | 0
7
3
8 | 0
6
5
6 | 0
7
4
4 | 0
7
3
7 | 0
7
4
0 | 0
7
1
1 | 0
7
8
3 | 0
4
5
0 | 0
7
4
4 | 0
7
3
7 | 0
6
4
8 | 0
7
2
5 | 0
5
9
8 | 0
4
9
3 | 0
7
4
0 | 0
7
4
1 | 0
7
4
4 | 0
7
1
4 | 0
7
3
9 | | 0
6
6
2 | | | | | | |
| | 0
1
7
1
4 | 0
1
7
1
5 | 0
1
7
1
6 | 0
1
7
1
7 | 0
1
7
1
8 | 0
1
7
1
9 | 0
1
7
2
0 | 0
1
7
2
1 | 0
1
7
2
2 | 0
1
7
2
3 | 0
1
7
2
4 | 0
1
7
2
5 | 0
1
7
2
6 | 0
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2
7 | 0
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7
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8 | 0
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3
9 | 0
1
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3
0 | 0
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3
1 | 0
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3
2 | 0
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7
3
3 | 0
1
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3
4 | 0
1
7
3
5 | 0
1
7
3
6 | 0
1
7
3
7 | 0
1
7
3
8 | 0
1
7
3
9 | 0
1
7
4
0 | 0
1
7
4
1 | 0
1
7
4
2 | |

Pheochromocytoma Benign
Pheochromocytoma Complex
Pheochromocytoma Malignant

X

Islets, Pancreatic
Adenoma

+ + + + + + + + X + + + + + + + + + + + + + + + + +

Parathyroid Gland
Lymphoma Malignant

+ + + + + + + + + + X + + + + + + + + + + + + + + + + +

Pituitary Gland
Lymphoma Malignant
Pars Distalis, Adenoma
Pars Distalis, Carcinoma

+ + M + + + + + + + + X + + + + + + + + + + + + + + + + +
+ X

Thyroid Gland
Lymphoma Malignant
Bilateral, C-cell, Carcinoma
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma

+ + + + + + + + + + X + + + + + + + + + + + + + + + + +
+ + + + + + + + + + X

GENERAL BODY SYSTEM

Tissue NOS
Abdominal, Fat, Lipoma

+ + + + +

GENITAL SYSTEM

Clitoral Gland

+ + M +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
| | 0
5
4
5 | 0
5
4
5 | 0
0
1
6 | 0
7
3
8 | 0
6
5
6 | 0
7
4
4 | 0
7
3
7 | 0
7
4
0 | 0
7
1
1 | 0
7
8
3 | 0
4
5
0 | 0
7
4
4 | 0
7
3
7 | 0
6
4
8 | 0
7
2
5 | 0
5
9
8 | 0
4
9
3 | 0
7
4
0 | 0
7
4
1 | 0
7
1
4 | 0
7
4
9 | 0
7
3
9 | 0
6
6
2 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
1
7
1
4 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1
7
1
4 | | |

Carcinoma
Lymphoma Malignant

X
X

Ovary
Lymphoma Malignant
Rete Ovarii, Adenoma

+ + + M +
X

Uterus
Adenoma
Histiocytic Sarcoma
Leiomyosarcoma
Lymphoma Malignant
Polyp, Glandular
Polyp Stromal
Polyp Stromal, Multiple
Squamous Cell Carcinoma
Cervix, Polyp Stromal
Cervix, Schwannoma Malignant

+
X
X
X
X
X
X
X
X
X
X

HEMATOPOIETIC SYSTEM

Bone Marrow

Lymph Node
Bronchial, Lymphoma Malignant
Mediastinal, Lymphoma Malignant
Pancreatic, Lymphoma Malignant

Lymph Node, Mandibular
Lymphoma Malignant

+

+
+
X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 6 | | |
| | 4 | 1 | 1 | 3 | 5 | 4 | 3 | 4 | 1 | 8 | 5 | 4 | 3 | 4 | 4 | 2 | 4 | 9 | 9 | 4 | 4 | 1 | 4 | 3 | 6 | |
| | 5 | 6 | 6 | 8 | 6 | 4 | 7 | 0 | 1 | 3 | 0 | 4 | 7 | 8 | 0 | 7 | 5 | 8 | 3 | 0 | 4 | 1 | 4 | 9 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 7 | 9 | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymph Node, Mesenteric
Histiocytic Sarcoma, Metastatic, Uterus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen
Histiocytic Sarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus
Lymphoma Malignant
Thymoma Benign | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Adenocarcinoma
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant | X | | | X | X | X | X | X | | | | | X | X | X | | X | X | | X | X | | X | X | |
| Skin
Keratoacanthoma
Lymphoma Malignant
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Lipoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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Experiment Number: 20105 - 56

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-------------------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 |
| 5 | 5 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 0 | |
| 4 | 1 | 1 | 3 | 5 | 4 | 3 | 4 | 1 | 8 | 5 | 4 | 3 | 4 | 4 | 2 | 4 | 9 | 9 | 4 | 4 | 1 | 4 | 3 | 6 | 1 | | |
| 5 | 6 | 6 | 8 | 6 | 4 | 7 | 0 | 1 | 3 | 0 | 4 | 7 | 8 | 0 | 7 | 5 | 8 | 3 | 0 | 4 | 1 | 4 | 9 | 2 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 1 | | |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 7 | 9 | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 0 | | |

Vertebra, Chondroma

X

Skeletal Muscle

Lymphoma Malignant

+ +

X

NERVOUS SYSTEM

Brain

Lymphoma Malignant

+ +

X

Nerve Trigeminal

+ +

Peripheral Nerve, Sciatic

Lymphoma Malignant

+ +

X

Peripheral Nerve, Tibial

Lymphoma Malignant

+ +

X

Spinal Cord, Cervical

Lymphoma Malignant

+ +

X

Spinal Cord, Lumbar

Lymphoma Malignant

+ + I +

X

Spinal Cord, Thoracic

Lymphoma Malignant

+ +

X

Trigeminal Ganglion

Carcinoma, Metastatic, Pituitary Gland

+ + + M + M + + + + + + M M + + + + + + + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 5 | 5 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | 4 | 1 | 1 | 3 | 5 | 4 | 3 | 4 | 1 | 8 | 5 | 4 | 3 | 4 | 4 | 2 | 4 | 9 | 9 | 4 | 4 | 1 | 4 | 3 | 6 | | |
| | 5 | 6 | 6 | 8 | 6 | 4 | 7 | 0 | 1 | 3 | 0 | 4 | 7 | 8 | 0 | 7 | 5 | 8 | 3 | 0 | 4 | 1 | 4 | 9 | 2 | | |
| | 3.0W/kg(CDMA)chr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |

females (cont...)

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 5 | 5 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 7 | 6 |
| | 5 | 6 | 6 | 8 | 6 | 4 | 7 | 0 | 1 | 3 | 0 | 4 | 7 | 8 | 0 | 7 | 5 | 8 | 3 | 0 | 4 | 1 | 4 | 3 | 6 | 2 |

females
(cont...)

Bilateral, Renal Tubule, Carcinoma
 Perirenal Tissue, Lymphoma Malignant
 Renal Tubule, Adenoma

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | X | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | | 7 | 7 | 5 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 4 | 7 |
| | 3.0W/kg(CDMA)chr | 4 | 3 | 3 | 9 | 6 | 4 | 1 | 4 | 4 | 3 | 3 | 9 | 4 | 5 | 4 | 4 |
| | | 5 | 9 | 1 | 3 | 4 | 0 | 1 | 4 | 1 | 8 | 9 | 3 | 1 | 0 | 1 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | | 3 | 4 | 5 | 6 | 7 | 9 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | X | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 4 |
| Mesentery | | | | | | | | | | | | | | | | | 11 |
| Histiocytic Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | ANIMAL ID | 7 | 7 | 5 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | |
| | | 4 | 3 | 3 | 9 | 6 | 4 | 1 | 4 | 4 | 3 | 3 | 9 | 4 | 5 | 4 | | |
| | | 5 | 9 | 1 | 3 | 4 | 0 | 1 | 4 | 1 | 8 | 9 | 3 | 1 | 0 | 1 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | | |
| | | 3 | 4 | 5 | 6 | 7 | 9 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 3 | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 3 | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 3 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | |
| Aorta | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Adenoma | | | | | | | | | | | | | | | | | 2 | |
| Carcinoma | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 | |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
4
5 | 0
7
3
9 | 0
5
3
1 | 0
4
9
6 | 0
4
4
3 | 0
7
4
0 | 0
7
1
1 | 0
7
4
4 | 0
7
1
1 | 0
7
4
1 | 0
7
3
8 | 0
7
3
9 | 0
4
9
3 | 0
7
4
1 | 0
4
5
0 | |
| ANIMAL ID | 0
1
7
4
3 | 0
1
7
4
4 | 0
1
7
4
5 | 0
1
7
4
6 | 0
1
7
4
7 | 0
1
7
4
9 | 0
1
7
5
1 | 0
1
7
5
2 | 0
1
7
5
4 | 0
1
7
5
5 | 0
1
7
5
6 | 0
1
7
5
7 | 0
1
7
5
8 | 0
1
7
5
9 | 0
1
7
6
0 | |
| Pheochromocytoma Benign | X | | | | | | | | | X | | | | | | 3 |
| Pheochromocytoma Complex | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | 5 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Adenoma | X | | | | | | X | | X | X | X | | | | | 30 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Bilateral, C-cell, Carcinoma | | | | | | | | | | | | | | | | 1 |
| C-cell, Adenoma | | | X | | | | | | | | | | | | | 3 |
| C-cell, Carcinoma | | | | | | | | X | | | | | | | | 2 |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | 1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | 8 |
| Abdominal, Fat, Lipoma | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
4
5 | 0
7
3
9 | 0
5
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4
9
6
3 | 0
4
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4 | 0
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4
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4
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| ANIMAL ID | 0
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7 | 0
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4 | 0
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5 | 0
1
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5
7 | 0
1
7
5
8 | 0
1
7
5
9 | 0
1
7
6
0 | 0
1
7
6
0 |
| Carcinoma | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 3 |
| Rete Ovarii, Adenoma | | | | | | | | | | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | 2 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 3 |
| Polyp, Glandular | | | | | | | | | | | | | | | | 2 |
| Polyp Stromal | | | | | | | X | X | | | | | | | | 9 |
| Polyp Stromal, Multiple | | | | | | | | | | X | | | | | | 4 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | 1 |
| Cervix, Polyp Stromal | | | | | | | | | | | | | | | | 1 |
| Cervix, Schwannoma Malignant | | | | | | | | | | | | | | | | 2 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymph Node | + | | | | | + | | | | | | | | | | 11 |
| Bronchial, Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|----------|
| | 0
7
4
5 | 0
7
3
9 | 0
5
3
1 | 0
4
9
6 | 0
4
6
4 | 0
7
4
1 | 0
7
1
4 | 0
7
7
4 | 0
7
4
1 | 0
7
3
8 | 0
7
3
9 | 0
4
3
1 | 0
7
4
5 | 0
4
0
1 | 0
7
4
1 | |
| ANIMAL ID | 0
1
7
4
3 | 0
1
7
4
4 | 0
1
7
4
5 | 0
1
7
4
6 | 0
1
7
4
7 | 0
1
7
4
9 | 0
1
7
5
1 | 0
1
7
5
2 | 0
1
7
5
4 | 0
1
7
5
5 | 0
1
7
5
6 | 0
1
7
5
7 | 0
1
7
5
8 | 0
1
7
5
9 | 0
1
7
6
0 | |
| Lymph Node, Mesenteric
Histiocytic Sarcoma, Metastatic, Uterus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1
3 | |
| Spleen
Histiocytic Sarcoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1
4 | |
| Thymus
Lymphoma Malignant
Thymoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87
2
1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | |
| Mammary Gland
Adenocarcinoma
Adenoma
Fibroadenoma
Fibroadenoma, Multiple
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
6
1
34
29
3 | |
| Skin
Keratoacanthoma
Lymphoma Malignant
Subcutaneous Tissue, Fibroma
Subcutaneous Tissue, Lipoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
2
1
1
1 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
4
5 | 0
7
3
9 | 0
5
3
1 | 0
4
9
6 | 0
4
4
3 | 0
7
4
0 | 0
7
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1 | 0
7
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4 | 0
7
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1 | 0
7
4
3 | 0
7
1
8 | 0
7
3
9 | 0
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4
3 | 0
7
1
1 | 0
4
5
0 | |
| ANIMAL ID | 0
1
7
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4 | 0
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7
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5 | 0
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7
4
6 | 0
1
7
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7 | 0
1
7
4
9 | 0
1
7
5
1 | 0
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2 | 0
1
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4 | 0
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5
5 | 0
1
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5
6 | 0
1
7
5
7 | 0
1
7
5
8 | 0
1
7
5
9 | 0
1
7
6
0 | |
| Vertebra, Chondroma | | | | | | | | | | | | | | | | 1 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 85 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 2 |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | M | + | + | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS | 7 | 7 | 5 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 4 | |
| | 4 | 3 | 3 | 9 | 6 | 4 | 1 | 4 | 4 | 3 | 3 | 9 | 4 | 5 | 4 | 4 | |
| FEMALE | 5 | 9 | 1 | 3 | 4 | 0 | 1 | 4 | 1 | 8 | 9 | 3 | 1 | 0 | 1 | 1 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3.0W/kg(CDMA)chr | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 3 | 4 | 5 | 6 | 7 | 9 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 3 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Ear | | | | | | | | | | | | | | | | | 1 |
| Neural Crest Tumor | | | | | | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 7 | 7 | 5 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | |
| | | 4 | 3 | 3 | 9 | 6 | 4 | 1 | 4 | 4 | 3 | 3 | 9 | 4 | 5 | 4 | | |
| | | 5 | 9 | 1 | 3 | 4 | 0 | 1 | 4 | 1 | 8 | 9 | 3 | 1 | 0 | 1 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | | |
| | | 3 | 4 | 5 | 6 | 7 | 9 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| * TOTALS | | | | | | | | | | | | | | | | | | |

| | |
|--------------------------------------|---|
| Bilateral, Renal Tubule, Carcinoma | 2 |
| Perirenal Tissue, Lymphoma Malignant | 1 |
| Renal Tubule, Adenoma | 1 |

| | | |
|--------------------|-------------------------------|----|
| Urinary Bladder | + + + + + + + + + + + + + + + | 90 |
| Lymphoma Malignant | | 1 |

SYSTEMIC LESIONS

| | | |
|---------------------|-------------------------------|----|
| Multiple Organ | + + + + + + + + + + + + + + + | 90 |
| Histiocytic Sarcoma | | 2 |
| Lymphoma Malignant | | 4 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0738 | 0696 | 0744 | 0743 | 0739 | 0770 | 0688 | 0771 | 0673 | 0761 | 0573 | 0774 | 0773 | 0575 | 0773 | 0773 | 0773 | 0577 | 0662 | 0774 | 0567 | 0752 | females
(cont...) |
| | ANIMAL ID | 0186 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma | | | | | | | X | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | + |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Test Type: CHRONIC

Route: Whole Body Exposure

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
8 | 0
6
9
6 | 0
7
4
4 | 0
7
4
0 | 0
7
3
7 | 0
7
3
9 | 0
7
4
0 | 0
6
3
8 | 0
7
3
7 | 0
6
5
1 | 0
7
4
1 | 0
5
9
3 | 0
7
4
4 | 0
7
3
8 | 0
7
4
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5
3
7 | 0
7
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5 | 0
7
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9 | 0
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0 | 0
5
7
9 | 0
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6 | 0
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0 | 0
5
2
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7
4
2 | | | | | |
| ANIMAL ID | 0
1
8
6
6 | 0
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8
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7 | 0
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6
9 | 0
1
8
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0 | 0
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3 | 0
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4 | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
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0 | 0
1
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9
1 | 0
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8
9
2 | 0
1
8
9
3 | 0
1
8
9
4 | 0
1
8
9
5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach
Lymphoma Malignant
Sarcoma
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Heart
Lymphoma Malignant
Endocardium, Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic
Adenoma
Carcinoma | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
| | 0738 | 0696 | 0744 | 0744 | 0733 | 0733 | 0744 | 0638 | 0737 | 0661 | 0767 | 0573 | 0774 | 0774 | 0733 | 0734 | 0557 | 0773 | 0773 | 0773 | 0757 | 0662 | 0774 | 0575 | 0667 | | | 0752 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 |

Lymphoma Malignant

Parathyroid Gland

Pituitary Gland
Pars Distalis, Adenoma

Thyroid Gland
Bilateral, C-cell, Adenoma
C-cell, Adenoma
C-cell, Carcinoma

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Clitoral Gland
Lymphoma Malignant
Schwannoma Malignant

Ovary
Lymphoma Malignant
Periovarian Tissue, Schwannoma Malignant
Rete Ovarii, Adenoma

Uterus
Adenocarcinoma
Adenoma
Lymphoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0738 | 0696 | 0744 | 0743 | 0739 | 0770 | 0688 | 0771 | 0678 | 0763 | 0571 | 0774 | 0773 | 0577 | 0773 | 0773 | 0773 | 0577 | 0662 | 0776 | 0572 | 0675 | 0752 | females
(cont...) |
| | ANIMAL ID | 0186 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | |

Polyp Stromal
Polyp Stromal, Multiple

X X X

Vagina

+

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node
Iliac, Adenocarcinoma, Metastatic, Mammary Gland
Iliac, Lymphoma Malignant
Lumbar, Lymphoma Malignant
Mediastinal, Lymphoma Malignant
Renal, Lymphoma Malignant

+ +
X

Lymph Node, Mandibular
Lymphoma Malignant

+ +

Lymph Node, Mesenteric
Lymphoma Malignant

+ +

Spleen
Lymphoma Malignant

+ +

Thymus
Lymphoma Malignant

+ + + + + + + + + + + + + + + M + + + + + + + +

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|
| | 0738 | 0696 | 0744 | 0744 | 0733 | 0733 | 0744 | 0638 | 0737 | 0667 | 0767 | 0574 | 0774 | 0774 | 0753 | 0774 | 0774 | 0774 | 0574 | 0667 | | | 0775 | 0667 | 0752 | 0574 |
| | 0186 | 0118 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | | | | | | X | | | | | | | | | | | | | | | | X |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Fibroadenoma | | X | X | | | | X | | | | | X | | | X | | X | | | | X | | | | | |
| Fibroadenoma, Multiple | X | | | X | X | X | | | | | X | | | X | X | | | | | X | X | | | | X | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Metastatic, Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vulva, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meningioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0738 | 0696 | 0744 | 0743 | 0734 | 0770 | 0638 | 0771 | 0663 | 0754 | 0774 | 0773 | 0774 | 0575 | 0773 | 0773 | 0774 | 0577 | 0662 | 0774 | 0567 | 0752 | females
(cont...) |
| | ANIMAL ID | 0186 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | |

Squamous Cell Carcinoma, Metastatic, Salivary Glands

Peripheral Nerve, Sciatic

Peripheral Nerve, Tibial

Spinal Cord, Cervical Lymphoma Malignant

Spinal Cord, Lumbar Lymphoma Malignant

Spinal Cord, Thoracic Lymphoma Malignant

Trigeminal Ganglion Squamous Cell Carcinoma, Metastatic, Salivary Glands

RESPIRATORY SYSTEM

Lung Adenocarcinoma, Metastatic, Mammary Gland Lymphoma Malignant

Nose Lymphoma Malignant

Trachea

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0738 | 0696 | 0744 | 0743 | 0734 | 0770 | 0638 | 0737 | 0663 | 0761 | 0573 | 0774 | 0773 | 0774 | 0575 | 0773 | 0773 | 0774 | 0577 | 0662 | 0774 | 0575 | 0672 | 0752 | females
(cont...) |
| | ANIMAL ID | 0186 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | |
| | | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | |

SPECIAL SENSES SYSTEM

Ear
Neural Crest Tumor

Eye
Lymphoma Malignant

Harderian Gland
Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

Kidney
Lymphoma Malignant

Urinary Bladder
Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

Multiple Organ
Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
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BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 0 | 3 | 4 | 1 | 4 | 4 | 3 | 3 | 4 | 8 | 3 | 3 | 6 | 7 | 4 | 3 | 1 | 3 | 4 | 5 | 4 | 3 | 3 | 4 | 4 | 4 | | |
| | ANIMAL ID | 2 | 9 | 4 | 1 | 4 | 4 | 7 | 8 | 4 | 7 | 8 | 9 | 0 | 4 | 1 | 7 | 7 | 8 | 0 | 0 | 1 | 7 | 9 | 0 | 1 | 1 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | + | | | | | | | | | + | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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Experiment Number: 20105 - 56

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 0 | 3 | 4 | 1 | 4 | 4 | 3 | 3 | 4 | 8 | 3 | 3 | 6 | 7 | 4 | 3 | 1 | 3 | 4 | 5 | 4 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 9 | 4 | 1 | 4 | 4 | 7 | 8 | 4 | 7 | 8 | 9 | 0 | 4 | 1 | 7 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 4 | 5 | | | | | | | | | | | |

females
(cont...)

Stomach, Forestomach
Lymphoma Malignant
Sarcoma
Squamous Cell Papilloma

+ + + + + + + + + + X
X

Stomach, Glandular
Lymphoma Malignant

+ + + + + + + + + + A + + + + + + + + + +

CARDIOVASCULAR SYSTEM

Aorta

+ +

Blood Vessel

Heart

Lymphoma Malignant
Endocardium, Schwannoma Malignant

+ + + + + + + + + + + + + + + + X + + + + + + + +

ENDOCRINE SYSTEM

Adrenal Cortex

Adenoma
Lymphoma Malignant

+ + + + + + + + + + + + + + + + X + + + + + + + +

Adrenal Medulla

Pheochromocytoma Benign

+ + + + + + + + + + X + + + + + M + + + + + + + +

Islets, Pancreatic

Adenoma
Carcinoma

+ + + + + + + + X + + + A + + + + + + + + + + X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 07
00
22 | 07
03
29 | 07
04
04 | 07
01
04 | 07
04
04 | 07
07
07 | 07
03
08 | 07
03
08 | 07
04
04 | 07
08
07 | 07
05
08 | 07
03
09 | 07
03
09 | 07
06
00 | 07
04
01 | 07
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07 | 07
01
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01 | 07
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07 | 07
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07
07 | | | |
| | 01
08
09
06 | 01
08
09
07 | 01
08
09
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05 | 01
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06 | 01
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07 | 01
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | I | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
Bilateral, C-cell, Adenoma
C-cell, Adenoma
C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland
Lymphoma Malignant
Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary
Lymphoma Malignant
Periovarian Tissue, Schwannoma Malignant
Rete Ovarii, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus
Adenocarcinoma
Adenoma
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

Polyp Stromal
Polyp Stromal, Multiple

X X

X

X

X

X

Vagina

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ +

Iliac, Adenocarcinoma, Metastatic, Mammary Gland

Iliac, Lymphoma Malignant

Lumbar, Lymphoma Malignant

Mediastinal, Lymphoma Malignant

Renal, Lymphoma Malignant

X

X

X

X

Lymph Node, Mandibular

+ +

Lymphoma Malignant

X

X

Lymph Node, Mesenteric

+ + + + + + + + + + + + A + + + + + + + + + + + +

Lymphoma Malignant

X

X

Spleen

+ +

Lymphoma Malignant

X

X

Thymus

+ +

Lymphoma Malignant

X

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|--|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 07 | | |
| | 2 | 9 | 4 | 1 | 4 | 4 | 3 | 3 | 4 | 8 | 3 | 3 | 6 | 7 | 4 | 3 | 1 | 3 | 4 | 5 | 4 | 3 | 3 | 4 | 1 | 07 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 07 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 07 | | |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 07 | | |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 07 | | |
| | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 07 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | X | | | X | | X | X | | X | | | | | | | X | | X | X | | | |
| Fibroadenoma, Multiple | X | X | | X | | X | | | | X | | | | | | | X | | X | | | | X | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Metastatic, Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | X | | | | | | | | | | | | | | | | X | | | | | |
| Subcutaneous Tissue, Lipoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Vulva, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | |
| Meningioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | |
|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|
| | 0702 | 0703 | 0704 | 0701 | 0704 | 0704 | 0703 | 0703 | 0704 | 0704 | 0705 | 0707 | 0707 | 0705 | 0706 | 0707 | 0707 | 0707 | 0707 | 0705 | 0707 | 0707 | 0707 | 0707 | | | 0707 |
| 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 011896 | |

Squamous Cell Carcinoma, Metastatic, Salivary Glands

Peripheral Nerve, Sciatic

Peripheral Nerve, Tibial

Spinal Cord, Cervical Lymphoma Malignant

Spinal Cord, Lumbar Lymphoma Malignant

Spinal Cord, Thoracic Lymphoma Malignant

Trigeminal Ganglion Squamous Cell Carcinoma, Metastatic, Salivary Glands

RESPIRATORY SYSTEM

Lung Adenocarcinoma, Metastatic, Mammary Gland Lymphoma Malignant

Nose Lymphoma Malignant

Trachea

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 | 7 | 7 | 7 | |
| | | 0 | 3 | 4 | 1 | 4 | 4 | 3 | 3 | 4 | 8 | 3 | 3 | 6 | 7 | 4 | 3 | 1 | 3 | 4 | 5 | 4 | 3 | 3 | 4 | 4 | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | |
| | | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear
Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females
(cont...) | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|
| | | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | | | 6 |
| | | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 0 | 4 | 4 | 3 | 7 | 4 | 4 | 9 | 3 | 6 | 4 | 6 | 4 | 3 | 9 | 9 | | | |
| | | 8 | 0 | 9 | 4 | 4 | 6 | 8 | 1 | 1 | 1 | 5 | 5 | 4 | 9 | 8 | 5 | 4 | 2 | 8 | 8 | 0 | 3 | 1 | 9 | 5 | 5 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 3 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | A | + | + |
| Intestine Large, Colon
Lymphoma Malignant | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | A | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | | 6 |
| | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 0 | 4 | 4 | 3 | 7 | 4 | 4 | 9 | 3 | 6 | 4 | 6 | 4 | 3 | 9 | 5 | | |
| | 8 | 0 | 9 | 4 | 4 | 6 | 8 | 1 | 1 | 1 | 5 | 5 | 4 | 9 | 8 | 5 | 4 | 2 | 8 | 8 | 0 | 3 | 1 | 9 | 5 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | X | | | | | | | | X | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|--|
| | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | | 0738 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

Lymphoma Malignant

Parathyroid Gland

Pituitary Gland
Pars Distalis, Adenoma

Thyroid Gland
Bilateral, C-cell, Adenoma
C-cell, Adenoma
C-cell, Carcinoma

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Clitoral Gland
Lymphoma Malignant
Schwannoma Malignant

Ovary
Lymphoma Malignant
Periovarian Tissue, Schwannoma Malignant
Rete Ovarii, Adenoma

Uterus
Adenocarcinoma
Adenoma
Lymphoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0738 | 0740 | 0734 | 0774 | 0573 | 0774 | 0777 | 0777 | 0777 | 0375 | 0774 | 0774 | 0773 | 0678 | 0774 | 0774 | 0492 | 0678 | 0764 | 0663 | 0741 | 0773 | 0695 |
| | ANIMAL ID | 0196 | 0197 | 0198 | 0199 | 0200 | 0201 | 0202 | 0203 | 0204 | 0205 | 0206 | 0207 | 0208 | 0209 | 0210 | 0211 | 0212 | 0213 | 0214 | 0215 | 0216 | 0217 | 0218 |

females (cont...)

Polyp Stromal
Polyp Stromal, Multiple

X X X X X

Vagina

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node
Iliac, Adenocarcinoma, Metastatic, Mammary Gland
Iliac, Lymphoma Malignant
Lumbar, Lymphoma Malignant
Mediastinal, Lymphoma Malignant
Renal, Lymphoma Malignant

+ + + + +

Lymph Node, Mandibular
Lymphoma Malignant

+ +

Lymph Node, Mesenteric
Lymphoma Malignant

+ +

Spleen
Lymphoma Malignant

+ +

Thymus
Lymphoma Malignant

+ + + + + + + + + + + + + + + + + + M + + + + +

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0738 | 0740 | 0779 | 0774 | 0774 | 0576 | 0778 | 0771 | 0771 | 0771 | 0375 | 0775 | 0774 | 0773 | 0678 | 0774 | 0774 | 0492 | 0738 | 0678 | 0764 | 0663 | 0771 | 0773 | | |
| | 0196 | 0197 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenocarcinoma | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Fibroadenoma | X | | | | | | X | X | X | | | X | X | X | | X | X | X | | | | | | X | |
| Fibroadenoma, Multiple | | | | X | X | | | | | | | | | | | | | | | X | X | | | X | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Metastatic, Salivary Glands | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Subcutaneous Tissue, Lipoma | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Vulva, Squamous Cell Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meningioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
| | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | | 0738 |
| | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 |

Squamous Cell Carcinoma, Metastatic, Salivary Glands

X

Peripheral Nerve, Sciatic

Peripheral Nerve, Tibial

Spinal Cord, Cervical
Lymphoma Malignant

Spinal Cord, Lumbar
Lymphoma Malignant

Spinal Cord, Thoracic
Lymphoma Malignant

Trigeminal Ganglion
Squamous Cell Carcinoma, Metastatic,
Salivary Glands

X

RESPIRATORY SYSTEM

Lung
Adenocarcinoma, Metastatic, Mammary Gland
Lymphoma Malignant

Nose
Lymphoma Malignant

Trachea

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0738 | 0740 | 0739 | 0744 | 0776 | 0773 | 0774 | 0771 | 0771 | 0735 | 0774 | 0774 | 0773 | 0768 | 0774 | 0774 | 0742 | 0763 | 0768 | 0770 | 0763 | 0771 | 0773 | 0769 | females
(cont...) |
| | ANIMAL ID | 0196 | 0197 | 0198 | 0199 | 0200 | 0201 | 0202 | 0203 | 0204 | 0205 | 0206 | 0207 | 0208 | 0209 | 0210 | 0211 | 0212 | 0213 | 0214 | 0215 | 0216 | 0217 | 0218 | 0219 | |

SPECIAL SENSES SYSTEM

Ear
Neural Crest Tumor

Eye
Lymphoma Malignant

Harderian Gland
Lymphoma Malignant

URINARY SYSTEM

Kidney
Lymphoma Malignant

Urinary Bladder
Lymphoma Malignant

SYSTEMIC LESIONS

Multiple Organ
Lymphoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | |
| | 6 | 3 | 4 | 3 | 1 | 0 | 2 | 4 | 9 | 3 | 3 | 3 | 7 | 4 | 4 | 4 | |
| FEMALE | 9 | 9 | 1 | 8 | 1 | 2 | 0 | 0 | 4 | 8 | 9 | 3 | 9 | 5 | 5 | 5 | |
| 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 85 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 83 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 79 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma | | X | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | 3 |
| Mesentery | | | | | | | | | | | | | | | | | 4 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | 2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | 1 |
| Parotid Gland, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 6 | 3 | 4 | 3 | 1 | 0 | 2 | 4 | 9 | 3 | 3 | 3 | 7 | 4 | 4 | 4 | 4 | |
| | 9 | 9 | 1 | 8 | 1 | 2 | 0 | 0 | 4 | 8 | 9 | 3 | 9 | 5 | 5 | 5 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 0 | 0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | 2 | |
| Sarcoma | | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | A | + | + | + | | | 88 | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Blood Vessel | | | | | | | | | | | | | | | | | 1 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | 2 | |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | X | | | | | | 2 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Adenoma | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | 4 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 | |
| Adenoma | | | | | | | | | | | | | | | | | 4 | |
| Carcinoma | | | | | | | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

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Route: Whole Body Exposure

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 6 | 3 | 4 | 3 | 1 | 0 | 2 | 4 | 9 | 3 | 3 | 3 | 7 | 4 | 4 | | |
| | 9 | 9 | 1 | 8 | 1 | 2 | 0 | 0 | 4 | 8 | 9 | 3 | 9 | 5 | 5 | | |
| 6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | | |
| * TOTALS | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | 1 | |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 85 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Pars Distalis, Adenoma | X | | | | | X | X | X | X | | | | | X | X | 40 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 | |
| Bilateral, C-cell, Adenoma | | | | | | | | | | | | | | | | 1 | |
| C-cell, Adenoma | X | X | | | | X | | | | | | | | | | 7 | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | 2 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | |
| Tissue NOS | + | | | | | | | | | | | | | | | 6 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 1 | |
| Schwannoma Malignant | | | | | | | | | | | | | | | X | 1 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 2 | |
| Periovarian Tissue, Schwannoma Malignant | | | | | | | | | | | | | | | | 1 | |
| Rete Ovarii, Adenoma | | | | | | | | | | | | | | | | 1 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | |
| Adenocarcinoma | | | | | | | | | | | | | | | | 3 | |
| Adenoma | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 |
| 6.0W/kg(CDMA)chr | | 6 | 3 | 4 | 3 | 1 | 0 | 2 | 4 | 9 | 3 | 3 | 3 | 7 | 4 | 4 | 4 | 4 |
| ANIMAL ID | | 9 | 9 | 1 | 8 | 1 | 2 | 0 | 0 | 4 | 8 | 9 | 3 | 9 | 5 | 5 | 5 | 5 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 0 | 0 |
| * TOTALS | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | X | | | | X | | | | | | | 12 |
| Polyp Stromal, Multiple | | | | | X | | | | | | | | | | | | | 5 |
| Vagina | | | | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymph Node | | | | + | | | | | + | + | | + | | | + | + | | 20 |
| Iliac, Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | 1 |
| Iliac, Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 2 |
| Lumbar, Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 1 |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 3 |
| Renal, Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 2 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 3 |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 3 |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 3 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | | 87 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | 2 |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0669 | 0739 | 0741 | 0778 | 0771 | 0772 | 0777 | 0777 | 0777 | 0640 | 0734 | 0733 | 0633 | 0579 | 0745 | |
| ANIMAL ID | 01954 | 01955 | 01956 | 01958 | 01959 | 01959 | 01959 | 01959 | 01959 | 01966 | 01966 | 01966 | 01966 | 01966 | 01967 | 01969 |

| | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | 3 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | | | | 2 |
| Fibroadenoma | | | X | X | | | | | X | | | X | X | X | | | 32 |
| Fibroadenoma, Multiple | X | | | | X | X | X | X | | | X | | | | X | | 30 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | | 1 |

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Keratoacanthoma | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma, Metastatic, Salivary Glands | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | 3 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | | 2 |
| Vulva, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | 1 |
| Meningioma Malignant | | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | X | | | | | | 2 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 84 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------------------|
| | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | |
| ANIMAL ID | 6 | 3 | 4 | 3 | 1 | 0 | 2 | 4 | 9 | 3 | 3 | 3 | 7 | 4 | 4 | | |
| | 9 | 9 | 1 | 8 | 1 | 2 | 0 | 0 | 4 | 8 | 9 | 3 | 9 | 5 | 5 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Metastatic,
Salivary Glands | 1 | | | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Peripheral Nerve, Tibial | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Spinal Cord, Cervical
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1 |
| Spinal Cord, Lumbar
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1 |
| Spinal Cord, Thoracic
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1 |
| Trigeminal Ganglion
Squamous Cell Carcinoma, Metastatic,
Salivary Glands | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | 75
1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | |
| Lung
Adenocarcinoma, Metastatic, Mammary Gland
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
1
3 |
| Nose
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 89
1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 89 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

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Cell Phone Radiation: CDMA

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Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | |
| ANIMAL ID | 6 | 3 | 4 | 3 | 1 | 0 | 2 | 4 | 9 | 3 | 3 | 3 | 7 | 4 | 4 | |
| | 9 | 9 | 1 | 8 | 1 | 2 | 0 | 0 | 4 | 8 | 9 | 3 | 9 | 5 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Ear | | | | | | | | | | | | | | | | |
| Neural Crest Tumor | | | | + | | | | | | | | | | | | 1 |
| | | | | X | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | A | + | + | + | | 86 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 2 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 1 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Lymphoma Malignant | | | | | | | | | X | | | | | | | 3 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically