

**Experiment Number:** 20105 - 59

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 01/02/2018

**Time Report Requested:** 11:58:55

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

**Lab:** IIT

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

**NTP Study Number:**

C20105

**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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<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>0.0W/kg(GSM)chr</b>	DAY ON TEST	0642	0732	0590	0294	0665	0668	0669	0589	0048	0052	0054	0055	0066	0077	0044	0055	0077	0077	0077	0055	0077	0077	0077	<b>males</b> <b>(cont...)</b>
	ANIMAL ID	0050	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	
		1	2	3	4	6	9	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	

**ALIMENTARY SYSTEM**

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



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Lab: IIT

HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(GSM)chr	DAY ON TEST																								males (cont...)
	0642	0672	0690	0694	0665	0666	0666	0658	0644	0655	0655	0666	0677	0666	0677	0644	0655	0655	0677	0677	0677	0655	0677	0677	
ANIMAL ID	0050	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
Bilateral, Pheochromocytoma Benign		X																							
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic Carcinoma																									
Parathyroid Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	I	+	+	+
Pituitary Gland Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland Pars Distalis, Adenoma	X																								
Thyroid Gland C-cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland C-cell, Carcinoma																									

GENERAL BODY SYSTEM

Tissue NOS  
Mediastinum, Schwannoma Malignant

GENITAL SYSTEM

Bulbourethral Gland

Ductus Deferens

Epididymis  
Lymphoma Malignant

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DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								ANIMAL ID	males (cont...)
	0642	0732	0590	0294	0655	0668	0669	0589	0488	0420	0557	0551	0674	0673	0439	0566	0552	0773	0773	0774	0575	0773	0771	0773		
0.0W/kg(GSM)chr	0050	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	005501	

Lymph Node, Mesenteric Lymphoma Malignant

+ +

Spleen Hemangiosarcoma Lymphoma Malignant

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

Thymus Lymphoma Malignant

+ + + + + + + + + + + + + + I + + + + + + + + + +

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

MUSCULOSKELETAL SYSTEM

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Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0642                            | 0732 | 0590 | 0294 | 0655 | 0668 | 0669 | 0588 | 0440 | 0552 | 0551 | 0664 | 0773 | 0673 | 0498 | 0563 | 0552 | 0773 | 0773 | 0774 | 0575 | 0773 | 0771 | 0771 |           |                 |
| 0.0W/kg(GSM)chr | 0050                            | 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

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| 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(GSM)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    | 00501     |                 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Renal Tubule, Adenoma, Multiple

X

Urinary Bladder

Lymphoma Malignant

+ +

SYSTEMIC LESIONS

Multiple Organ

Lymphoma Malignant

Mesothelioma Malignant

+ +

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|-------------|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|-----------------|
|             | 0<br>7<br>2<br>1                | 0<br>7<br>3<br>3      | 0<br>5<br>1<br>0      | 0<br>7<br>3<br>0      | 0<br>6<br>1<br>0      | 0<br>7<br>3<br>4      | 0<br>6<br>6<br>3      | 0<br>5<br>8<br>0      | 0<br>5<br>6<br>7      | 0<br>7<br>3<br>4      | 0<br>6<br>0<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>6<br>6<br>4      | 0<br>7<br>0<br>2      | 0<br>7<br>3<br>1      | 0<br>6<br>6<br>2      | 0<br>7<br>3<br>1      | 0<br>6<br>8<br>5      | 0<br>5<br>8<br>2      | 0<br>5<br>9<br>5      |                       |           |                 |
|             | 0<br>0<br>5<br>3<br>4           | 0<br>0<br>5<br>3<br>5 | 0<br>0<br>5<br>3<br>6 | 0<br>0<br>5<br>3<br>8 | 0<br>0<br>5<br>3<br>9 | 0<br>0<br>5<br>4<br>0 | 0<br>0<br>5<br>4<br>1 | 0<br>0<br>5<br>4<br>2 | 0<br>0<br>5<br>4<br>3 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>5 | 0<br>0<br>5<br>4<br>6 | 0<br>0<br>5<br>4<br>7 | 0<br>0<br>5<br>4<br>8 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>5<br>5<br>0 | 0<br>0<br>5<br>5<br>1 | 0<br>0<br>5<br>5<br>2 | 0<br>0<br>5<br>5<br>3 | 0<br>0<br>5<br>5<br>4 | 0<br>0<br>5<br>5<br>5 | 0<br>0<br>5<br>5<br>6 | 0<br>0<br>5<br>5<br>7 | 0<br>0<br>5<br>5<br>8 | 0<br>0<br>5<br>5<br>9 |           |                 |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                       | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Large, Colon<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Large, Rectum                      | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Duodenum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Ileum                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Jejunum<br>Adenocarcinoma   | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |
| Liver<br>Lymphoma Malignant                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery                                    |   |   |   |   |   |   | + | + | + | + |   |   |   |   |   |   | + | + |   |   | + |   |   |   | + | + |   |
| Pancreas<br>Adenoma                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma, Multiple                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                                    | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 5 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 5 | 5 |                    |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 2 | 3 | 1 | 3 | 1 | 3 | 6 | 8 | 6 | 3 | 0 | 0 | 3 | 3 | 3 | 3 | 6 | 0 | 3 | 6 | 3 | 8 | 8 | 9 |                    |
| <b>0.0W/kg(GSM)chr</b>                 | 1 | 3 | 0 | 0 | 0 | 4 | 3 | 0 | 7 | 4 | 4 | 4 | 2 | 0 | 1 | 2 | 4 | 2 | 5 | 1 | 2 | 1 | 5 | 5 |                    |
| 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 | males<br>(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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |                    |
|  | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |                    |
|  | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 0 |                    |

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

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

Stomach, Forestomach  
Lymphoma Malignant  
Squamous Cell Papilloma

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

**CARDIOVASCULAR SYSTEM**

Aorta

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

Blood Vessel

+

Heart

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

Lymphoma Malignant

**ENDOCRINE SYSTEM**

Adrenal Cortex  
Adenoma

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

Adrenal Medulla

Pheochromocytoma Benign  
Pheochromocytoma Benign, Multiple  
Pheochromocytoma Complex  
Pheochromocytoma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

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

Bilateral, Pheochromocytoma Benign

Islets, Pancreatic  
Adenoma  
Carcinoma

+  
X  
X X X

Parathyroid Gland  
Adenoma

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

Pituitary Gland  
Lymphoma Malignant  
Pars Distalis, Adenoma

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

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

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

Experiment Number: 20105 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0721        | 0733 | 0751 | 0773 | 0766 | 0777 | 0766 | 0755 | 0755 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0755 | 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    | 0    |           |                    |
|   | 0           | 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    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |           |                    |
|   | 3           | 3    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    |           |                    |
|   | 4           | 5    | 6    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    |           |                    |

|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mesothelioma Malignant   | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preputial Gland<br>Lymphoma Malignant                          | +           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prostate<br>Adenoma<br>Lymphoma Malignant                      | +           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seminal Vesicle<br>Lymphoma Malignant                          | +           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Testis<br>Mesothelioma Malignant<br>Interstitial Cell, Adenoma | +<br>X<br>X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**HEMATOPOIETIC SYSTEM**

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow<br>Lymphoma Malignant   | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymph Node<br>Bronchial, Lymphoma Malignant<br>Iliac, Lymphoma Malignant<br>Lumbar, Lymphoma Malignant<br>Mediastinal, Lymphoma Malignant | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymph Node, Mandibular<br>Lymphoma Malignant  | + M + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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 I .. Insufficient tissue

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| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr |  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | males<br>(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     |           |                    |
| ANIMAL ID   |  | 00534       | 00556 | 00555 | 00553 | 00554 | 00555 | 00556 | 00557 | 00558 | 00559 | 00560 | 00561 | 00562 | 00563 | 00564 | 00565 | 00566 | 00567 | 00568 | 00569 | 00570 | 00571 | 00572 | 00573 | 00574     | 00575              |

Lymph Node, Mesenteric  
Lymphoma Malignant

+ +

Spleen  
Hemangiosarcoma  
Lymphoma Malignant

+ +

Thymus  
Lymphoma Malignant

+ +

**INTEGUMENTARY SYSTEM**

Mammary Gland  
Fibroadenoma  
Lymphoma Malignant

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

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

**MUSCULOSKELETAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|--------------------|
|   | 0<br>7<br>2<br>1 | 0<br>7<br>3<br>3 | 0<br>5<br>1<br>0 | 0<br>7<br>3<br>0 | 0<br>6<br>1<br>0 | 0<br>7<br>3<br>4 | 0<br>6<br>6<br>3 | 0<br>5<br>8<br>0 | 0<br>5<br>6<br>7 | 0<br>7<br>3<br>4 | 0<br>6<br>0<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>6<br>6<br>4 | 0<br>7<br>0<br>2 | 0<br>7<br>3<br>1 | 0<br>6<br>6<br>2 | 0<br>7<br>3<br>1 | 0<br>6<br>8<br>5 | 0<br>5<br>8<br>2 | 0<br>5<br>9<br>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<br>0<br>5<br>3<br>4 |           |                    |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|--------------------|
|   | 0721        | 0733 | 0751 | 0773 | 0766 | 0777 | 0766 | 0755 | 0755 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 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    | 00534 |           |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 00535 |           |                    |
|   | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 00536 |           |                    |
|   | 3           | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 00537 |           |                    |
|   | 4           | 5    | 6    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 6    | 00538 |           |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |   |
|   | ANIMAL ID   | 7 | 7 | 5 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 5 | 7 | 6 | 5 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 5 | 5 | 5 | 5 |   |   |
|   |             | 2 | 3 | 1 | 3 | 1 | 3 | 6 | 8 | 6 | 3 | 0 | 0 | 3 | 3 | 3 | 3 | 6 | 0 | 3 | 6 | 0 | 3 | 6 | 3 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 5 | 5 | 5 |   |   |   |   |
|   |             | 1 | 3 | 0 | 0 | 0 | 4 | 3 | 0 | 7 | 4 | 4 | 4 | 2 | 0 | 1 | 2 | 4 | 2 | 5 | 1 | 2 | 1 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 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 | 0 |   |
|   |             | 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 | 5 | 5 | 5 | 5 |   |
|   |             | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |   |
|   |             | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 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 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

males  
(cont...)

Renal Tubule, Adenoma, Multiple

Urinary Bladder  
Lymphoma Malignant

+ +

SYSTEMIC LESIONS

Multiple Organ  
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 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST | 0662  | 0733  | 0663  | 0772  | 0775  | 0664  | 0772  | 0669  | 0664  | 0661  | 0262  | 0664  | 0772  | 0663  | 0667  | 0567  | 0664  | 0667  | 0568  | 0771  | 0773  | 0770  | 0568  | males<br>(cont...) |
|   | ANIMAL ID   | 00561 | 00562 | 00563 | 00564 | 00565 | 00566 | 00567 | 00569 | 00564 | 00561 | 00562 | 00564 | 00567 | 00563 | 00567 | 00568 | 00564 | 00567 | 00568 | 00563 | 00568 | 00566 | 00568 |                    |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | A | + | + | + | + | A | A | A | + | A | A | A | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Lymphoma Malignant                                | + | + | + | + | + | A | + | + | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | A | A | + | A | + | A | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | A | + | + | + | + | + | A | + | + | A | A | + | + | + | + | A | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma                                  | + | + | + | + | + | A | + | + | + | + | + | A | A | + | A | A | A | A | A | + | + | + | + | + |
| Liver<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery   | + |   | + | + | + | + |   | + |   |   |   |   |   |   | + |   | + | + |   |   |   | + |   | + |
| Pancreas<br>Adenoma<br>Adenoma, Multiple<br>Carcinoma<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   | X |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X | X |   |
|   |   |   |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 061 | 022 | 066 | 073 | 066 | 066 | 057 | 066 | 056 | 068 | 071 | 073 | 073 | 058 |           |                 |
| 0.0W/kg(GSM)chr | 005                             | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000       |                 |

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  
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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

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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

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|   | 062         | 073   | 063   | 073   | 075   | 061   | 074   | 062   | 066   | 066   | 064   | 021   | 062   | 073   | 063   | 066   | 057   | 066   | 055   | 068   | 071   | 073   | 073   | 058   | 064   |                    |
| ANIMAL ID   | 00561       | 00556 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 |                    |

Bilateral, Pheochromocytoma Benign

Islets, Pancreatic  
Adenoma  
Carcinoma

Parathyroid Gland  
Adenoma

Pituitary Gland  
Lymphoma Malignant  
Pars Distalis, Adenoma

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

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  
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Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Cell Phone Radiation: GSM  
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Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
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 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr          | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|  | 0662        | 0673  | 0663  | 0673  | 0675  | 0664  | 0672  | 0666  | 0666  | 0666  | 0626  | 0667  | 0666  | 0666  | 0656  | 0666  | 0665  | 0666  | 0656  | 0666  | 0667  | 0677  | 0673  | 0677  | 0658  |                    |
| ANIMAL ID  | 00561       | 00556 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 |                    |
| Mesothelioma Malignant   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Preputial Gland<br>Lymphoma Malignant                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     | M     | +     | +     | +     | +                  |
| Prostate<br>Adenoma<br>Lymphoma Malignant                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |       |       |       |       |       |                    |
| Seminal Vesicle<br>Lymphoma Malignant                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +                  |
| Testis<br>Mesothelioma Malignant<br>Interstitial Cell, Adenoma | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +                  |

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow<br>Lymphoma Malignant            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node<br>Bronchial, Lymphoma Malignant  |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Iliac, Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular<br>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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 0671 | 0674 | 0672 | 0665 | 0666 | 0664 | 0661 | 0662 | 0664 | 0667 | 0666 | 0665 | 0666 | 0667 | 0668 | 0667 | 0665 | 0667 | 0667 | 0665 |           |                 |
| 0.0W/kg(GSM)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 | 0056      |                 |

Lymph Node, Mesenteric Lymphoma Malignant

+ X

Spleen Hemangiosarcoma Lymphoma Malignant

+ X

Thymus Lymphoma Malignant

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

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma Lymphoma Malignant

+ + + + + + + M M + + + + + + + + + + + + + + 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
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |      |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|------|--|
|   | 0662        | 0733  | 0663  | 0732  | 0775  | 0674  | 0762  | 0665  | 0666  | 0664  | 0661  | 0222  | 0662  | 0773  | 0663  | 0667  | 0665  | 0666  | 0562  | 0667  | 0566  | 0678  | 0771  | 0773  |                    | 0770 |  |
| ANIMAL ID   | 00561       | 00556 | 00555 | 00556 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555 | 00555              |      |  |
| Bone  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +                  |      |  |
| Skeletal Muscle                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +                  |      |  |
| Lymphoma Malignant                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X                  |      |  |
| <b>NERVOUS SYSTEM</b>                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |      |  |
| 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    |  |
| <b>RESPIRATORY SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |      |  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST<br><b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b><br><b>0.0W/kg(GSM)chr</b> | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|   | 0662      | 0673 | 0663 | 0673 | 0671 | 0664 | 0672 | 0665 | 0666 | 0664 | 0661 | 0662 | 0664 | 0667 | 0666 | 0665 | 0666 | 0667 | 0668 | 0665 | 0667 | 0667 | 0665 | 0668 |                    |
| Lung  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Alveolar/Bronchiolar Adenoma  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Lymphoma Malignant  |           |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      | X    |      |      |      |                    |
| Nose  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    |                    |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site                            |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Trachea   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| <b>SPECIAL SENSES SYSTEM</b>  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Eye   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site               |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Harderian Gland   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site                            |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Lacrimal Gland  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +    |                    |
| <b>URINARY SYSTEM</b>   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Kidney  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Lipoma  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                    |
| Lymphoma Malignant  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                    |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0662 | 0733 | 0662 | 0775 | 0771 | 0672 | 0669 | 0664 | 0661 | 0262 | 0674 | 0772 | 0660 | 0661 | 0577 | 0664 | 0667 | 0562 | 0681 | 0773 | 0770 | 0675 | 0678 |      |
|  | ANIMAL ID   | 0056 | 0052 | 0053 | 0055 | 0055 | 0055 | 0055 | 0055 | 0057 | 0059 | 0051 | 0052 | 0053 | 0054 | 0056 | 0057 | 0058 | 0058 | 0050 | 0051 | 0053 | 0054 | 0055 | 0058 |
|  |             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 0    | 1    | 3    | 4    | 5    | 6    | 8    |

males  
(cont...)

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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 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 |   |
|  | <b>0.0W/kg(GSM)chr</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |   |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

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

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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               |           |  |    |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>0.0W/kg(GSM)chr</b>           | 4 | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 0 | 2 | 9               |           |  |    |
|  | 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               |           |  |    |
|  | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |           |  |    |
|  | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 |   |                 |           |  |    |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |           |  |    |
| 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               |           |  |    |
| <b>CARDIOVASCULAR SYSTEM</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  |    |
| Aorta  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +               |           |  | 90 |
| Blood Vessel   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1               |           |  |    |
| Heart  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +               |           |  | 90 |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2               |           |  |    |
| <b>ENDOCRINE SYSTEM</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  |    |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 4 | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 2 | 9 |   |
| <b>0.0W/kg(GSM)chr</b>                 | 8 | 8 | 9 | 4 | 0 | 6 | 3 | 8 | 8 | 5 | 5 | 6 | 0 | 5 | 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 |   |   |
| <b>* TOTALS</b>                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>2<br>4<br>8      | 0<br>6<br>5<br>8      | 0<br>5<br>6<br>9      | 0<br>7<br>3<br>4      | 0<br>5<br>1<br>0      | 0<br>6<br>1<br>6      | 0<br>7<br>3<br>3      | 0<br>6<br>8<br>8      | 0<br>6<br>4<br>8      | 0<br>5<br>5<br>5      | 0<br>6<br>4<br>5      | 0<br>6<br>9<br>6      | 0<br>0<br>0<br>0      | 0<br>7<br>0<br>5      | 0<br>6<br>0<br>9      |          |
| ANIMAL ID   | 0<br>0<br>5<br>8<br>9 | 0<br>0<br>5<br>9<br>1 | 0<br>0<br>5<br>9<br>2 | 0<br>0<br>5<br>9<br>3 | 0<br>0<br>5<br>9<br>4 | 0<br>0<br>5<br>9<br>5 | 0<br>0<br>5<br>9<br>6 | 0<br>0<br>5<br>9<br>7 | 0<br>0<br>5<br>9<br>8 | 0<br>0<br>5<br>9<br>9 | 0<br>0<br>5<br>9<br>0 | 0<br>0<br>6<br>0<br>1 | 0<br>0<br>6<br>0<br>2 | 0<br>0<br>6<br>0<br>4 | 0<br>0<br>6<br>0<br>5 |          |
| 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        |
| <b>HEMATOPOIETIC SYSTEM</b>                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| 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

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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   |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b>   | 4               | 5 | 6 | 3 | 1 | 1 | 3 | 8 | 4 | 5 | 4 | 9 | 0 | 0 | 2 | 9 |   |
| <b>0.0W/kg(GSM)chr</b>   | 8               | 8 | 9 | 4 | 0 | 6 | 3 | 8 | 8 | 5 | 5 | 6 | 0 | 5 | 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 |   |   |
|  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric Lymphoma Malignant  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90<br>1   |
| Spleen Hemangiosarcoma Lymphoma Malignant  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90<br>3<br>1                                    |
| Thymus Lymphoma Malignant  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88<br>2   |
| <b>INTEGUMENTARY SYSTEM</b>  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland Fibroadenoma Lymphoma Malignant  | +               | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | 82<br>2<br>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<br>1<br>5<br>2<br>1<br>2<br>1<br>2<br>1<br>2 |
|  |                 |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
|  |                 |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>MUSCULOSKELETAL SYSTEM</b>  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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 - 59

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Cell Phone Radiation: GSM

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Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |    | * TOTALS |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|----------|
|   | 0<br>2<br>4<br>8 | 0<br>6<br>5<br>8 | 0<br>5<br>6<br>9 | 0<br>7<br>3<br>4 | 0<br>5<br>1<br>0 | 0<br>6<br>1<br>6 | 0<br>7<br>3<br>8 | 0<br>6<br>8<br>8 | 0<br>6<br>4<br>5 | 0<br>5<br>6<br>5 | 0<br>6<br>4<br>9 | 0<br>6<br>0<br>0 | 0<br>7<br>0<br>5 | 0<br>6<br>2<br>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                |    |          |
|   | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 6                | 6                | 6                | 6                | 6                |    |          |
|   | 8                | 9                | 9                | 9                | 9                | 9                | 9                | 9                | 9                | 0                | 0                | 0                | 0                | 0                |    |          |
| 9   | 1                | 2                | 3                | 4                | 5                | 6                | 7                | 8                | 9                | 0                | 1                | 2                | 4                | 5                |    |          |
| Bone  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90 |          |
| Skeletal Muscle                                       | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90 |          |
| Lymphoma Malignant                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1  |          |
| <b>NERVOUS SYSTEM</b>                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |    |          |
| 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

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 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

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

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|-----------------------------------|------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 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 |   |           |   |
| <b>MALE</b>                       |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |
|                                   | <b>0.0W/kg(GSM)chr</b> | 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 |
|                                   |                        | 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 |   |   |           |   |
| <b>* TOTALS</b>                   |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |
| Renal Tubule, Adenoma, Multiple   |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |   |
| Urinary Bladder                   |                        | +         | + | A | + | + | + | + | + | + | + | + | + | + | + | + | +         |   |
| Lymphoma Malignant                |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>89</b> |   |
|                                   |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |   |
| <b>SYSTEMIC LESIONS</b>           |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |
| Multiple Organ                    |                        | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |   |
| Lymphoma Malignant                |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |   |
| Mesothelioma Malignant            |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |   |
|                                   |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |   |
|                                   |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |   |
|                                   |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |   |

\* .. 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 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |      |      |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|
|   | 0683        | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | 0700 | 0701 | 0702 |           |                    | 0703 | 0704 | 0705 | 0706 | 0707 | 0708 |
|   | 0           | 0    | 0    | 0    | 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    | 2    | 7    | 7    | 7    | 7    | 7    | 7    | 6    | 7    | 6    | 7    | 6    | 7    | 5    | 6    | 5    | 7    | 7    | 7         | 7                  | 7    | 6    | 6    | 6    | 6    | 6    |
|   | 8           | 1    | 9    | 3    | 3    | 3    | 3    | 3    | 3    | 5    | 3    | 3    | 1    | 9    | 3    | 9    | 9    | 7    | 0    | 3    | 3         | 1                  | 3    | 1    | 5    | 5    | 5    | 5    |
|   | 3           | 4    | 1    | 3    | 2    | 3    | 4    | 1    | 4    | 7    | 0    | 9    | 3    | 4    | 1    | 1    | 6    | 6    | 9    | 1    | 0         | 5                  | 0    | 5    | 5    | 5    | 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    | 0    |
|   | 0           | 0    | 0    | 0    | 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    | 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    | 1    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3    | 3         | 3                  | 3    | 3    | 3    | 3    | 3    | 3    |
|   | 2           | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 1    | 2    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 3         | 4                  | 5    | 6    | 7    | 8    | 8    | 8    |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma              |   |   |   | X | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma, Multiple    |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Tooth                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### CARDIOVASCULAR SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Blood Vessel                      |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Endocardium, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Cell Phone Radiation: GSM

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|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0683 | 0684 | 0291 | 0733 | 0773 | 0773 | 0773 | 0773 | 0773 | 0676 | 0766 | 0776 | 0676 | 0776 | 0599 | 0657 | 0773 | 0773 | 0773 | 0773 | 0676 | 0665 |
|  | ANIMAL ID   | 0071 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 |
|  |             | 12   | 34   | 45   | 67   | 78   | 89   | 12   | 21   | 22   | 24   | 56   | 78   | 90   | 01   | 02   | 03   | 03   | 04   | 05   | 06   | 07   | 08   |

males (cont...)

Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

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

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+ .. Tissue examined microscopically  
X .. Lesion present  
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M .. Missing tissue  
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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|   | 0683        | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | 0700 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 |                    |
| ANIMAL ID   | 0071        | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095               |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant, Metastatic, Tissue Nos |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| C-cell, Adenoma                                |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   | X |   |   |   |   |   |   |
| Follicular Cell, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Follicular Cell, Adenoma, Multiple             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chemodectoma Malignant          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Fat, Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Preputial Gland        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0683 | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | 0700 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 | 0707 | 0708 | 0709 | males<br>(cont...) |
|   | ANIMAL ID   | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 |                    |

Mesothelioma Malignant  
Interstitial Cell, Adenoma

### HEMATOPOIETIC SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymph Node  |   |   | + |   | + |   |   | + |   |   |   | + |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Bronchial, Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Pancreatic, Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymph Node, Mandibular                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Schwannoma Malignant, Metastatic, Salivary Glands |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Thymus  | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Thymoma 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)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   | 6 | 6 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 |
|   |             | 8 | 1 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 1 | 9 | 3 | 9 | 9 | 7 | 0 | 3 | 3 | 1 | 3 | 1 | 5 | 5 | 5 |
|   |             | 3 | 4 | 1 | 3 | 2 | 3 | 4 | 1 | 4 | 7 | 0 | 9 | 3 | 4 | 1 | 1 | 6 | 6 | 9 | 1 | 0 | 5 | 0 | 5 | 5 | 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 |
|   |             | 0 | 0 | 0 | 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 | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|   |             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 |

**males (cont...)**

**INTEGUMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Fibroadenoma        | M | + | + | + | + | + | + | + | + | + | + | M | I | + | + | + | + | + | + | + | M | + | M | + | + |   |   |
|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma                |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Subcutaneous Tissue, Fibrosarcoma |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Subcutaneous Tissue, Sarcoma      |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant                     |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Nerve Trigeminal                     | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST                                       | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |      |      |  |  |
|---|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|--|--|
|   | 0683                            | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | 0700 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 |           |                 | 0707 | 0708 |  |  |
| 1.5W/kg(GSM)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               | 0071 | 0072 |  |  |
| Peripheral Nerve, Tibial                          | +                               | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +               |      |      |  |  |
| Spinal Cord, Cervical Lymphoma Malignant          | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +               | +    |      |  |  |
| Spinal Cord, Lumbar Lymphoma Malignant            | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +               | +    |      |  |  |
| Spinal Cord, Thoracic Lymphoma Malignant          | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +               | +    |      |  |  |
| Trigeminal Ganglion                               | +                               | +    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +         | I               | +    |      |  |  |
| <b>RESPIRATORY SYSTEM</b>                         |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |      |      |  |  |
| Lung  | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +               | +    |      |  |  |
| Alveolar/Bronchiolar Adenoma                      |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |      |      |  |  |
| Alveolar/Bronchiolar Carcinoma                    |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |      |      |  |  |
| Carcinoma, Metastatic, Uncertain Primary Site     |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |      |      |  |  |
| Lymphoma Malignant                                |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |      |      |  |  |
| Schwannoma Malignant, Metastatic, Salivary Glands |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |      |      |  |  |
| Nose  | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +               | +    | +    |  |  |
| Trachea   | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +               | +    | +    |  |  |
| Chemodectoma Malignant, Metastatic, Tissue Nos    |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |      |      |  |  |

**SPECIAL SENSES SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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M .. Missing tissue  
A .. Autolysis precludes evaluation  
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Experiment Number: 20105 - 59

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Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |      |      |      |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|
|                 | 0683                            | 0684 | 0689 | 0683 | 0682 | 0683 | 0684 | 0681 | 0684 | 0687 | 0680 | 0689 | 0683 | 0684 | 0681 | 0681 | 0686 | 0685 | 0687 | 0687 | 0683 | 0683 | 0681 | 0683 |           |                 | 0680 | 0685 | 0686 |
| 1.5W/kg(GSM)chr | 0071                            | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0076 | 0077 | 0076 | 0077 | 0076 | 0077 | 0075 | 0076 | 0075 | 0077 | 0077 | 0077 | 0073 | 0073 | 0071 | 0073      | 0070            | 0075 | 0076 | 0075 |
|                 | 0077                            | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077      | 0077            | 0077 | 0077 | 0077 |
|                 | 1111                            | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122      | 1122            | 1122 | 1122 | 1122 |
|                 | 2345                            | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345 | 2345      | 2345            | 2345 | 2345 | 2345 |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

**URINARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hemangioma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lipoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Perirenal Tissue, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Ureter                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| 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 - 59  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 01/02/2018  
**Time Report Requested:** 11:58:55  
**First Dose M/F:** 09/16/12 / 09/16/12  
**Lab:** IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |      |      |      |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|
|                 | 0510                            | 0713 | 0733 | 0731 | 0738 | 0573 | 0730 | 0734 | 0732 | 0730 | 0732 | 0736 | 0730 | 0733 | 0731 | 0733 | 0732 | 0734 | 0734 | 0734 | 0372 | 0733 | 0732 | 0674 |           |                 | 0679 | 0077 | 0076 |
| 1.5W/kg(GSM)chr | 0077                            | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077      | 0077            | 0077 | 0077 | 0077 |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoma Malignant                         | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |   |   |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |   |   |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A |   |   |   |
| Intestine Small, Duodenum<br>Adenocarcinoma<br>Lymphoma Malignant    | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Intestine Small, Ileum   | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A |   |   |   |
| Intestine Small, Jejunum<br>Adenocarcinoma                           | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |
| Liver<br>Cholangioma<br>Hepatocellular Adenoma<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Mesentery<br>Lymphoma Malignant                                      | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa<br>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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |      |      |      |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|
|                 | 0510                            | 0713 | 0713 | 0713 | 0713 | 0518 | 0713 | 0302 | 0703 | 0703 | 0503 | 0703 | 0502 | 0702 | 0502 | 0703 | 0703 | 0703 | 0703 | 0703 | 0302 | 0703 | 0703 | 0604 |           |                 | 0604 | 0605 | 0606 |
| 1.5W/kg(GSM)chr | 00                              | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00        | 00              | 00   | 00   | 00   |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas             | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenoma              |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma, Multiple    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tooth                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Blood Vessel                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endocardium, Schwannoma 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 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

|                                 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| DAY ON TEST                     |  | 0510 | 0713 | 0733 | 0778 | 0751 | 0773 | 0730 | 0774 | 0772 | 0753 | 0775 | 0773 | 0771 | 0773 | 0773 | 0773 | 0773 | 0773 | 0732 | 0773 | 0773 | 0764 | 0773 | 0776 |
| HARLAN SPRAGUE DAWLEY RATS MALE |  | 110  | 133  | 133  | 133  | 131  | 133  | 030  | 333  | 333  | 333  | 636  | 030  | 233  | 331  | 333  | 333  | 333  | 333  | 334  | 344  | 200  | 332  | 333  | 49   |
| 1.5W/kg(GSM)chr                 |  | 0074 | 0074 | 0074 | 0074 | 0074 | 0074 | 0074 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0066 | 0066 | 0066 | 0066 | 0066 |
| ANIMAL ID                       |  | 740  | 743  | 744  | 747  | 748  | 749  | 750  | 751  | 752  | 753  | 754  | 755  | 756  | 757  | 758  | 759  | 760  | 761  | 762  | 763  | 764  | 765  | 766  | 767  |
| <b>males (cont...)</b>          |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Myocardium, Schwannoma Malignant

### ENDOCRINE SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Benign               |   |   |   |   |   |   |   | X |   |   |   | X |   |   | X |   | X |   |   |   |   | X |   |   |
| Pheochromocytoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Pheochromocytoma Benign    |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Pheochromocytoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                    | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                               |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Adenoma, Multiple                     |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                             |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Carcinoma, Multiple                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Adenoma                |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0510        | 0718 | 0733 | 0731 | 0733 | 0738 | 0732 | 0739 | 0734 | 0732 | 0730 | 0732 | 0732 | 0736 | 0730 | 0733 | 0731 | 0733 | 0732 | 0734 | 0734 | 0730 | 0737 | 0733 | 0732 |           |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                    |
|   | 0           | 0    | 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    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7         |                    |
|   | 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         |                    |
|   | 0           | 2    | 3    | 4    | 4    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9         |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland                                  | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Chemodectoma Malignant, Metastatic, Tissue Nos |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| C-cell, Adenoma                                |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |  |
| C-cell, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Follicular Cell, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Follicular Cell, Adenoma, Multiple             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

GENERAL BODY SYSTEM

|                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chemodectoma Malignant          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Fat, Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |      |      |      |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
|                 | 0510                            | 0718 | 0733 | 0733 | 0733 | 0731 | 0733 | 0730 | 0734 | 0732 | 0730 | 0732 | 0732 | 0736 | 0730 | 0733 | 0731 | 0733 | 0732 | 0734 | 0734 | 0732 | 0730 |           |                    | 0733 | 0732 | 0734 | 0730 | 0733 |
| 1.5W/kg(GSM)chr | 0070                            | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070      | 0070               | 0070 | 0070 | 0070 | 0070 | 0070 |

Mesothelioma Malignant  
Interstitial Cell, Adenoma

HEMATOPOIETIC SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node  |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bronchial, Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Mediastinal, Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pancreatic, Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mandibular                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Schwannoma Malignant, Metastatic, Salivary Glands |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mesenteric                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thymus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thymoma 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                            |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|--|
|  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                            |  |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE<br/>1.5W/kg(GSM)chr</b> | 0           | 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 | 5 | 7 | 3 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6                          |  |
|  | 1           | 1 | 3 | 3 | 3 | 1 | 3 | 0 | 3 | 3 | 3 | 3 | 6 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4                          |  |
|  | 0           | 8 | 3 | 1 | 3 | 8 | 2 | 9 | 4 | 2 | 0 | 2 | 2 | 3 | 3 | 1 | 3 | 2 | 3 | 4 | 4 | 0 | 0 | 2 | 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 | 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 | 7 |                            |  |
|  | 4           | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |                            |  |
|  | 0           | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | <b>males<br/>(cont...)</b> |  |

**INTEGUMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Fibroadenoma     | M | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | X |   |   |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Sarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)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 | 0 | 0 | males<br>(cont...) |
|---|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| ANIMAL ID   |  | 5           | 7 | 7 | 7 | 7 | 5 | 7 | 3 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |                    |
|   |  | 1           | 1 | 3 | 3 | 3 | 1 | 3 | 0 | 3 | 3 | 3 | 3 | 6 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                    |
|   |  | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |                    |
|   |  | 0           | 2 | 3 | 4 | 4 | 7 | 8 | 4 | 9 | 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9                  |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Tibial                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                         | + | I | + | + | I | + | + | + | M | + | M | + | + | + | + | I | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |   |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung<br>Alveolar/Bronchiolar Adenoma<br>Alveolar/Bronchiolar Carcinoma<br>Carcinoma, Metastatic, Uncertain Primary Site<br>Lymphoma Malignant<br>Schwannoma Malignant, Metastatic, Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea<br>Chemodectoma Malignant, Metastatic, Tissue Nos  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0510                            | 0711 | 0713 | 0713 | 0713 | 0718 | 0722 | 0729 | 0734 | 0733 | 0733 | 0733 | 0736 | 0730 | 0733 | 0731 | 0733 | 0732 | 0734 | 0734 | 0733 | 0732 | 0733 | 0734 |           |                 |
| 1.5W/kg(GSM)chr | 007                             | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007  | 007       |                 |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

URINARY SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangioma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Perirenal Tissue, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ureter                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 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 | ANIMAL ID | males<br>(cont...) |   |
|------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE | 1.5W/kg(GSM)chr | 6 | 6 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 0 |           |                    | 0 |
|                                    |                 | 3 | 8 | 8 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 5 | 3 | 3 | 0 | 3 | 3 | 6 | 3 | 3 | 0 |           |                    | 0 |
|                                    |                 | 8 | 7 | 7 | 3 | 5 | 5 | 0 | 2 | 1 | 4 | 4 | 8 | 0 | 1 | 3 | 5 | 2 | 3 | 6 | 1 | 1 | 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 | 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 | 7         |                    |   |
|                                    |                 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 8 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7         | 7                  |   |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoma Malignant                         | A | + | + | + | A | A | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + |   |
| Intestine Large, Colon   | + | + | A | + | A | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Rectum  | A | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum<br>Adenocarcinoma<br>Lymphoma Malignant    | + | + | A | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Ileum   | A | + | A | + | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | + | A | + | + | + | + |   |
| Intestine Small, Jejunum<br>Adenocarcinoma                           | A | + | A | + | A | + | + | + | X | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + |   |
| Liver<br>Cholangioma<br>Hepatocellular Adenoma<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mesentery<br>Lymphoma Malignant                                      |   | + | + |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   | + |   |   |   |   |   |
| Oral Mucosa<br>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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0638                            | 0687 | 0687 | 0733 | 0775 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |           |                 |
| 1.5W/kg(GSM)chr | 0077                            | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077      |                 |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma              |   | X |   |   | X |   |   |   |   | X |   | X |   |   | X |   |   |   |   | X | X |   |   |   |   |
| Adenoma, Multiple    |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Carcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tooth                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Blood Vessel                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endocardium, 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                          |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|--|
| DAY ON TEST                            | 6 | 6 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7                          |  |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 3 | 8 | 8 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 7 | 3 | 5 | 3 | 3 | 0 | 3 | 3 | 6 | 3 | 6 | 3 | 3                          |  |
| <b>1.5W/kg(GSM)chr</b>                 | 8 | 7 | 7 | 3 | 5 | 5 | 0 | 2 | 1 | 4 | 4 | 8 | 0 | 1 | 3 | 5 | 2 | 3 | 6 | 1 | 1 | 5 | 0 | 0 | 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 | 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 | 7 | 7 | 7                          |  |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 7 | <b>males<br/>(cont...)</b> |  |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant, Metastatic, Tissue Nos |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |
| C-cell, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Adenoma, Multiple             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

|                                 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |   |
|---------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS                      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |   |
| Chemodectoma Malignant          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  | X |
| Abdominal, Fat, Hemangiosarcoma |   |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |   |

**GENITAL SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Preputial Gland        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Seminal Vesicle        | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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  
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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0638 | 0678 | 0678 | 0705 | 0745 | 0772 | 0773 | 0773 | 0774 | 0777 | 0778 | 0778 | 0780 | 0781 | 0783 | 0785 | 0786 | 0787 | 0787 | 0789 | 0790 | 0793 | 0793 | 0795 | 0797 | 0797 |
|  | ANIMAL ID   | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 |

males  
(cont...)

Mesothelioma Malignant  
Interstitial Cell, Adenoma

X

X

HEMATOPOIETIC SYSTEM

Bone Marrow  
Lymphoma Malignant

+ +

Lymph Node  
Bronchial, Lymphoma Malignant  
Mediastinal, Lymphoma Malignant  
Pancreatic, Lymphoma Malignant

+ + + + + + + +

Lymph Node, Mandibular  
Lymphoma Malignant  
Schwannoma Malignant, Metastatic, Salivary Glands

+ +

Lymph Node, Mesenteric  
Lymphoma Malignant

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

Spleen  
Lymphoma Malignant

+ +

Thymus  
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  
Lymphoma Malignant  
Thymoma Benign

+ X  
X X

\* .. 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...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0638                            | 0687 | 0687 | 0733 | 0775 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |           |                 |
| 1.5W/kg(GSM)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         |                 |
|                 | 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         |                 |
|                 | 0                               | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 0    | 1    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 5    | 6    | 7    | 9         |                 |

**INTEGUMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Fibroadenoma        | + | + | + | + | + | M | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |   |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Subcutaneous Tissue, Sarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Nerve Trigeminal                     | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--------------------|
|   | 0638        | 0687  | 0687  | 0733  | 0775  | 0745  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  | 0772  |  |                    |
| ANIMAL ID   | 00770       | 00771 | 00772 | 00773 | 00774 | 00775 | 00776 | 00777 | 00778 | 00779 | 00780 | 00781 | 00782 | 00783 | 00784 | 00785 | 00786 | 00787 | 00788 | 00789 | 00790 | 00791 |  |                    |
| Peripheral Nerve, Tibial                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |  |                    |
| Spinal Cord, Cervical<br>Lymphoma Malignant           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |  |                    |
| Spinal Cord, Lumbar<br>Lymphoma Malignant             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |  |                    |
| Spinal Cord, Thoracic<br>Lymphoma Malignant           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |  |                    |
| Trigeminal Ganglion                                   | +           | +     | +     | +     | +     | M     | M     | +     | +     | +     | +     | +     | +     | +     | M     | M     | +     | +     | +     | +     | +     | +     |  |                    |
| <b>RESPIRATORY SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |                    |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |  |                    |
| Alveolar/Bronchiolar Adenoma                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |  |                    |
| Alveolar/Bronchiolar Carcinoma                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |  |                    |
| Carcinoma, Metastatic, Uncertain Primary Site         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |                    |
| Lymphoma Malignant                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |                    |
| Schwannoma Malignant, Metastatic, Salivary Glands     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |                    |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |  |                    |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |  |                    |
| Chemodectoma Malignant, Metastatic, Tissue Nos        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |  |                    |

**SPECIAL SENSES 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 - 59

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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

Species/Strain: RATS/HSD

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                            |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
|  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                            |
|  | 0638        | 0667  | 0668  | 0733  | 0770  | 0774  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  |                            |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 38          | 87    | 87    | 33    | 05    | 25    | 32    | 33    | 33    | 33    | 33    | 28    | 30    | 31    | 33    | 33    | 57    | 66    | 77    | 66    | 77    | 66    | 77    | 66    | 77    |                            |
| <b>1.5W/kg(GSM)chr</b>                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                            |
|  | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                            |
|  | 00770       | 00771 | 00772 | 00773 | 00774 | 00775 | 00776 | 00777 | 00778 | 00779 | 00780 | 00781 | 00783 | 00784 | 00785 | 00786 | 00787 | 00788 | 00789 | 00790 | 00791 | 00792 | 00793 | 00795 | 00796 | <b>males<br/>(cont...)</b> |

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

Harderian Gland +

Lacrimal Gland

URINARY SYSTEM

Kidney +

Hemangioma

Lipoma

Lymphoma Malignant

Perirenal Tissue, Lymphoma Malignant

Renal Tubule, Adenoma

Ureter

Urinary Bladder +

SYSTEMIC LESIONS

Multiple Organ +

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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 6 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 |   |   |
|  | <b>1.5W/kg(GSM)chr</b> | 7 | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 |   |
|  |                        | 0 | 2 | 6 | 3 | 6 | 0 | 5 | 0 | 4 | 2 | 3 | 4 | 9 | 6 | 2 |   |
|  | 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 |
|  |                        | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |                        | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |                        | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 |   |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b>                                     |
| Intestine Large, Cecum<br>Lymphoma Malignant                         | A | + | + | + | + | + | + | + | + | + | + | + | A | A | A |   | <b>75</b><br><b>1</b>                         |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |   | <b>83</b>                                     |
| Intestine Large, Rectum  | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + |   | <b>81</b>                                     |
| Intestine Small, Duodenum<br>Adenocarcinoma<br>Lymphoma Malignant    | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |   | <b>82</b><br><b>1</b><br><b>1</b>             |
| Intestine Small, Ileum   | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + |   | <b>76</b>                                     |
| Intestine Small, Jejunum<br>Adenocarcinoma                           | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |   | <b>76</b><br><b>1</b>                         |
| Liver<br>Cholangioma<br>Hepatocellular Adenoma<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | <b>90</b><br><b>1</b><br><b>1</b><br><b>4</b> |
| Mesentery<br>Lymphoma Malignant                                      |   | + | + |   |   |   | + |   |   |   |   |   |   |   |   |   | <b>19</b><br><b>1</b>                         |
| Oral Mucosa<br>Squamous Cell Carcinoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   | <b>2</b><br><b>1</b>                          |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 |   |   |  |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | 7 | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 |   |  |
|   | 0 | 2 | 6 | 3 | 6 | 0 | 5 | 0 | 4 | 2 | 3 | 4 | 9 | 6 | 2 |   |  |
| 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 |   |  |
|   | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |   |  |
|   | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |  |
|   | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 |   |  |
| <b>* TOTALS</b>                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |           |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Pancreas             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>89</b> |
| Adenoma              |   |   |   |   |   |   | X | X |   |   | X |   |   |   |   |  | <b>17</b> |
| Adenoma, Multiple    |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |  | <b>4</b>  |
| Carcinoma            | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>2</b>  |
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Schwannoma Malignant |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |  | <b>88</b> |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Tooth                |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |  | <b>1</b>  |

**CARDIOVASCULAR SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |           |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Blood Vessel                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>2</b>  |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Endocardium, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                    | 6 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 | 7 | 8 | 0 |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE | 7 | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 |   |   |
|                                    | 0 | 2 | 6 | 3 | 6 | 0 | 5 | 0 | 4 | 2 | 3 | 4 | 9 | 6 | 2 |   |   |
| ANIMAL ID                          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.5W/kg(GSM)chr                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                    | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|                                    | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                    | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 |   |   |
| <b>* TOTALS</b>                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Myocardium, Schwannoma Malignant

X

1

**ENDOCRINE SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma                               |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   | 4  |
| Carcinoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adrenal Medulla                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pheochromocytoma Benign               | X |   |   |   |   |   |   |   | X | X | X | X | X |   | X |   | 21 |
| Pheochromocytoma Malignant            |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |
| Bilateral, Pheochromocytoma Benign    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Bilateral, Pheochromocytoma Malignant |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Islets, Pancreatic                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Adenoma                               |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   | 12 |
| Adenoma, Multiple                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Carcinoma                             |   |   | X |   | X | X |   |   |   |   | X |   |   |   | X |   | 13 |
| Carcinoma, Multiple                   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Parathyroid Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |   | 87 |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pituitary Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pars Distalis, Adenoma                |   |   | X | X | X |   |   |   | X |   |   |   |   | X |   |   | 28 |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                    | 6 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 | 7 | 8 | 3 |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE | 7 | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 | 0 | 0 |
|                                    | 0 | 2 | 6 | 3 | 6 | 0 | 5 | 0 | 4 | 2 | 3 | 4 | 9 | 6 | 2 | 0 | 0 |
| ANIMAL ID                          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                    | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1.5W/kg(GSM)chr                    | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                    | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 0 |
| <b>* TOTALS</b>                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Thyroid Gland                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Chemodectoma Malignant, Metastatic, Tissue Nos |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| C-cell, Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9  |
| C-cell, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Follicular Cell, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Follicular Cell, Adenoma, Multiple             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |

**GENERAL BODY SYSTEM**

|                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
| Chemodectoma Malignant          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Abdominal, Fat, Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

**GENITAL SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Preputial Gland        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Prostate               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |
| Seminal Vesicle        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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               |
|------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                        | <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 6 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 |   |                 |
| <b>1.5W/kg(GSM)chr</b> | 7                                      | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 |   |   |                 |
| <b>ANIMAL ID</b>       | 0                                      | 0 | 0 | 0 | 0 | 0 | 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 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |   |   |                 |
|                        | 9                                      | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |                 |
|                        | 8                                      | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 |   |   |                 |
|                        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

Mesothelioma Malignant  
Interstitial Cell, Adenoma

X

1  
2

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|-----------|
| Bone Marrow                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>90</b> |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>2</b>  |
| Lymph Node  |   | + |   |   |   |   |   |   |   | + | + |   | + |   |   |  |  | <b>22</b> |
| Bronchial, Lymphoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Mediastinal, Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |  |  | <b>2</b>  |
| Pancreatic, Lymphoma Malignant                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Lymph Node, Mandibular                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>90</b> |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |  |  | <b>2</b>  |
| Schwannoma Malignant, Metastatic, Salivary Glands |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Lymph Node, Mesenteric                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>89</b> |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |  |  | <b>2</b>  |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>90</b> |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |  |  | <b>4</b>  |
| Thymus  | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |  |  | <b>86</b> |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Lymphoma Malignant                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>2</b>  |
| Thymoma Benign                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>2</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |  |
|--|------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | <b>1.5W/kg(GSM)chr</b> | 6     | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 |   |   |  |
|  |                        | 7     | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 |   |  |
|  |                        | 0     | 2 | 6 | 3 | 6 | 0 | 5 | 0 | 4 | 2 | 3 | 4 | 9 | 6 | 2 |   |  |
|  |                        | <hr/> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|  | 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 |  |
|  |                        | 7     | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |  |
|  |                        | 9     | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
|  |                        | 8     | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 |   |  |
| <b>* TOTALS</b>                            |                        |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**INTEGUMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Mammary Gland<br>Fibroadenoma     | + | + | M | + | + | + | + | + | + | + | M | + | + | + | M | <b>76</b><br><b>3</b> |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b>             |
| Basal Cell Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>              |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | <b>3</b>              |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | <b>5</b>              |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>              |
| Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | <b>3</b>              |
| Subcutaneous Tissue, Sarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>              |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

**NERVOUS SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

\* .. 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 - 59

Test Type: CHRONIC

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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       |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|   | 6               | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 | 7 | 8 | 3 | 3       |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | 7               | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 | 0 | 0 | 0       |
|   | 0               | 2 | 6 | 3 | 6 | 0 | 5 | 0 | 4 | 2 | 3 | 4 | 9 | 6 | 2 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|   | 7               | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8       |
|   | 9               | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1       |
|   | 8               | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 5 | 5       |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Peripheral Nerve, Tibial                              | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89      |
| Spinal Cord, Cervical<br>Lymphoma Malignant           | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90<br>1 |
| Spinal Cord, Lumbar<br>Lymphoma Malignant             | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90<br>1 |
| Spinal Cord, Thoracic<br>Lymphoma Malignant           | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90<br>1 |
| Trigeminal Ganglion                                   | +               | + | + | + | + | M | + | + | M | + | + | + | M | + | + | + | + | 73      |
| <b>RESPIRATORY SYSTEM</b>                             |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Lung  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90      |
| Alveolar/Bronchiolar Adenoma                          |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Alveolar/Bronchiolar Carcinoma                        |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Carcinoma, Metastatic, Uncertain Primary Site         |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Lymphoma Malignant                                    |                 |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 3       |
| Schwannoma Malignant, Metastatic, Salivary Glands     |                 |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Nose  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90      |
| Trachea   | +               | + | + | + | + | + | + | + | + | + | + | + | A | + | A |   |   | 88      |
| Chemodectoma Malignant, Metastatic, Tissue Nos        |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |

**SPECIAL SENSES 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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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               | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 |   |   |           |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | 7               | 8 | 3 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 9 | 8 | 0 |   |           |
|   | 0               | 2 | 6 | 3 | 6 | 0 | 5 | 0 | 4 | 2 | 3 | 4 | 9 | 6 | 2 |   |           |
| 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 |   |           |
|   | 7               | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |   |           |
|   | 9               | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |           |
|   | 8               | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 |   |           |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Eye   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | A |   | <b>86</b> |
| Harderian Gland                                       | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | <b>90</b> |
| Lacrimal Gland  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>URINARY SYSTEM</b>                                 |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Kidney  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | <b>90</b> |
| Hemangioma  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lipoma  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Perirenal Tissue, Lymphoma Malignant                  |                 |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | <b>1</b>  |
| Renal Tubule, Adenoma                                 |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Ureter  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Urinary Bladder                                       | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | <b>89</b> |
| <b>SYSTEMIC LESIONS</b>                               |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Multiple Organ  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | <b>90</b> |
| Lymphoma Malignant                                    |                 |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | <b>4</b>  |
| Mesothelioma Malignant                                |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum   | A | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum  | A | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum   | A | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma   | A | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Mesentery  | + | + |   |   |   |   |   |   |   |   |   |   | + |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Pancreas   | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma  |   |   |   | X | X |   |   |   |   |   |   |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0636                            | 0773 | 0573 | 0773 | 0773 | 0773 | 0773 | 0773 | 0664 | 0773 | 0664 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0664 | 0773 | 0773 | 0773 | 0773 | 0773 |           |                 |
| 3.0W/kg(GSM)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    | 00923     |                 |

Adenoma, Multiple  
 Carcinoma  
 Lymphoma Malignant  
 Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

X

X

Salivary Glands  
 Lymphoma Malignant

+  
 X

Stomach, Forestomach  
 Lymphoma Malignant

+  
 X

Stomach, Glandular  
 Lymphoma Malignant

A +  
 X

Tooth  
 Odontoma

**CARDIOVASCULAR SYSTEM**

Aorta

+ +

Blood Vessel

Heart

Lymphoma Malignant  
 Endocardium, Schwannoma Malignant

+  
 X X

**ENDOCRINE SYSTEM**

Adrenal Cortex

+ +

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|   | 0636        | 0773  | 0573  | 0773  | 0773  | 0773  | 0773  | 0773  | 0664  | 0763  | 0667  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0669  | 0773  | 0773  | 0773  | 0773  |                    |
| ANIMAL ID   | 00923       | 00924 | 00926 | 00927 | 00928 | 00929 | 00930 | 00931 | 00932 | 00933 | 00934 | 00935 | 00936 | 00937 | 00938 | 00939 | 00940 | 00941 | 00942 | 00943 | 00944 | 00945 | 00946 | 00947 |                    |

Adenoma  
Lymphoma Malignant  
Capsule, Lymphoma Malignant

X X

Adrenal Medulla  
Pheochromocytoma Benign  
Pheochromocytoma Malignant, Multiple  
Pheochromocytoma Benign  
Bilateral, Pheochromocytoma Benign

+  
X  
X  
X X

Islets, Pancreatic  
Adenoma  
Adenoma, Multiple  
Carcinoma

A + A +  
X  
X X

Parathyroid Gland

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

Pituitary Gland  
Sarcoma, Metastatic, Eye  
Schwannoma Malignant, Metastatic, Trigeminal  
Ganglion  
Pars Distalis, Adenoma  
Pars Distalis, Adenoma, Multiple

+  
X  
X  
X X

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

A +  
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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr                   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|   | 0636        | 0773  | 0573  | 0773  | 0773  | 0773  | 0773  | 0773  | 0676  | 0776  | 0677  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0676  | 0777  | 0777  | 0777  | 0777  |                    |
| ANIMAL ID   | 00923       | 00924 | 00926 | 00927 | 00928 | 00930 | 00931 | 00932 | 00933 | 00934 | 00935 | 00937 | 00938 | 00939 | 00940 | 00941 | 00942 | 00943 | 00944 | 00945 | 00946 | 00947 | 00949 | 00950 |                    |
| Bone Marrow   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Lymph Node  | +           |       |       |       |       |       |       | +     |       | +     |       |       |       |       |       |       |       |       |       |       |       |       | +     | +     |                    |
| Bronchial, Lymphoma Malignant   |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Lumbar, Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Mediastinal, Lymphoma Malignant   |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |                    |
| Mediastinal, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |                    |
| Pancreatic, Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Pancreatic, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |                    |
| Renal, Lymphoma Malignant   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Lymph Node, Mandibular  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |                    |
| Lymph Node, Mesenteric  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |                    |
| Spleen  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |                    |
| Thymus  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Thymoma Benign  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| <b>INTEGUMENTARY SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Mammary Gland   | 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

| 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   |
|---|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | ANIMAL ID | 636 | 709 | 570 | 734 | 772 | 771 | 772 | 633 | 764 | 767 | 673 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 |
|   |           | 0   | 0   | 0   | 0   | 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...)

Adenocarcinoma  
Fibroadenoma

X

Skin  
Basal Cell Carcinoma  
Keratoacanthoma  
Neural Crest Tumor  
Sarcoma  
Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Fibrosarcoma  
Subcutaneous Tissue, Hemangiopericytoma  
Subcutaneous Tissue, Lipoma  
Subcutaneous Tissue, Lymphoma Malignant  
Subcutaneous Tissue, Malignant Fibrous  
Histiocytoma  
Subcutaneous Tissue, Myxosarcoma

+  
+  
X X  
X  
X X  
X  
X  
X

MUSCULOSKELETAL SYSTEM

Bone  
Skeletal Muscle  
Lymphoma Malignant

+  
+  
X

NERVOUS SYSTEM

Brain  
Glioma Malignant  
Lymphoma Malignant  
Sarcoma, Metastatic, Eye

+  
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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0636                            | 0773 | 0573 | 0773 | 0773 | 0773 | 0773 | 0773 | 0664 | 0763 | 0763 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0669 | 0773 | 0773 | 0773 | 0773 |           |                 |
| 3.0W/kg(GSM)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    | 00923     |                 |

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

Meninges, Granular Cell Tumor Benign

Meninges, Granular Cell Tumor Malignant

X

X

Nerve Trigeminal

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

+ +

Peripheral Nerve, Sciatic

Lymphoma Malignant

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

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

Lymphoma Malignant

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

Spinal Cord, Lumbar

Lymphoma Malignant

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

Spinal Cord, Thoracic

+ +

Trigeminal Ganglion

Sarcoma, Metastatic, Eye

Schwannoma Malignant

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

X

RESPIRATORY SYSTEM

Lung

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

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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

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Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0636  | 0709  | 0570  | 0774  | 0772  | 0771  | 0772  | 0773  | 0643  | 0765  | 0764  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0679  | 0773  | 0777  | 0777  | 0777  | 0777  |
|  | ANIMAL ID   | 00923 | 00924 | 00926 | 00927 | 00928 | 00930 | 00931 | 00932 | 00933 | 00934 | 00935 | 00937 | 00938 | 00939 | 00941 | 00942 | 00943 | 00944 | 00945 | 00946 | 00947 | 00949 | 00950 | 00951 |
|  |             | 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...)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Eye                              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea   | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye   | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant  |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Choroid, Schwannoma Malignant   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Retrobulbar, Sarcoma  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Schwannoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site              |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

URINARY SYSTEM

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0636  | 0709  | 0570  | 0774  | 0772  | 0771  | 0772  | 0663  | 0776  | 0674  | 0773  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0676  | 0776  | 0777  | 0777  | 0777  |
|  | ANIMAL ID   | 00923 | 00924 | 00926 | 00927 | 00928 | 00930 | 00931 | 00933 | 00934 | 00935 | 00937 | 00938 | 00939 | 00941 | 00942 | 00943 | 00944 | 00945 | 00946 | 00947 | 00949 | 00951 |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

males  
(cont...)

Lymphoma Malignant  
 Oncocytoma Benign  
 Sarcoma  
 Renal Tubule, Adenoma

X  
 X

Urethra  
 Transitional Epithelium, Papilloma

+  
 X

Urinary Bladder  
 Carcinoma, Metastatic, Prostate

+  
 X

**SYSTEMIC LESIONS**

Multiple Organ  
 Lymphoma Malignant  
 Mesothelioma Malignant

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

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

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|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0699 | 0731 | 0730 | 0454 | 0728 | 0773 | 0663 | 0593 | 0628 | 0722 | 0676 | 0778 | 0770 | 0570 | 0772 | 0773 | 0676 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | <b>males</b><br><b>(cont...)</b> |
|  | ANIMAL ID   | 0954 | 0095 | 0097 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 |                                  |
|  |             | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                                  |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | A | + | + | + | + | A | A | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Large, Colon<br>Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla                          | + | + | + | + | + | + | A | A | + | + | + | A | A | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | A | + | + | + | A | A | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma  | + | + | + | + | A | + | A | A | + | + | + | A | A | A | + | + | + | + | A | + | + | + | + | + | + |
| Liver<br>Hepatocellular Carcinoma<br>Lymphoma Malignant<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>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 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0699        | 0731 | 0730 | 0454 | 0728 | 0733 | 0639 | 0533 | 0628 | 0722 | 0630 | 0720 | 0770 | 0575 | 0733 | 0733 | 0636 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 |           |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                    |
|   | 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         |                    |
|   | 5           | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 8    | 8    | 8         |                    |
|   | 4           | 5    | 7    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 8    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 0    | 1    | 2    |           |                    |

Adenoma, Multiple X  
 Carcinoma  
 Lymphoma Malignant  
 Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Salivary Glands Lymphoma Malignant +

Stomach, Forestomach Lymphoma Malignant +

Stomach, Glandular Lymphoma Malignant + + + + + + + + + + + A + + + + + + + + + + + + + +

Tooth Odontoma

CARDIOVASCULAR SYSTEM

Aorta +

Blood Vessel +

Heart +

Lymphoma Malignant  
 Endocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex +

\* .. 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 - 59

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST   | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|---|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|   | 0699                            | 0731 | 0730 | 0454 | 0728 | 0733 | 0693 | 0533 | 0628 | 0568 | 0722 | 0636 | 0778 | 0770 | 0550 | 0733 | 0731 | 0663 | 0733 | 0730 | 0733 | 0733 | 0733 | 0733 |           |                 |
|   | 0                               | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 00954     |                 |
| Adenoma   |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | X               |
| Lymphoma Malignant                                    |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Capsule, Lymphoma Malignant                           |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Adrenal Medulla                                       | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |           |                 |
| Pheochromocytoma Benign                               |                                 |      |      |      | X    |      |      |      | X    |      |      | X    |      |      |      |      |      | X    |      |      |      | X    | X    |      |           |                 |
| Pheochromocytoma Benign, Multiple                     |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Pheochromocytoma Malignant                            |                                 |      |      |      |      |      |      |      |      |      | X    |      |      | X    |      |      |      |      |      |      |      |      |      |      |           |                 |
| Bilateral, Pheochromocytoma Benign                    |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Islets, Pancreatic                                    | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |           |                 |
| Adenoma   |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Adenoma, Multiple                                     |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Carcinoma   |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |      |      |           |                 |
| Parathyroid Gland                                     | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    |      |           |                 |
| Pituitary Gland                                       | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |           |                 |
| Sarcoma, Metastatic, Eye                              |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Pars Distalis, Adenoma                                | X                               |      |      |      |      |      |      | X    |      | X    |      |      |      |      |      |      |      |      | X    | X    | X    |      | X    |      |           |                 |
| Pars Distalis, Adenoma, Multiple                      |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                 |
| Thyroid Gland   | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |           |                 |
| Bilateral, C-cell, Adenoma                            |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| C-cell, Adenoma                                       |                                 |      |      |      |      | X    |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      | X    |      |           |                 |
| C-cell, Carcinoma                                     |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                 |
| Follicular Cell, Adenoma                              |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |           |                 |

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

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0699        | 0731 | 0770 | 0744 | 0778 | 0773 | 0693 | 0533 | 0659 | 0668 | 0722 | 0672 | 0770 | 0777 | 0770 | 0575 | 0773 | 0773 | 0663 | 0773 | 0773 | 0773 | 0773 | 0773 |           |                    |
|   | 0090        | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090 | 0090      |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow<br>Lymphoma Malignant              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node<br>Bronchial, Lymphoma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mandibular<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node, Mesenteric<br>Lymphoma Malignant   | + | + | + | + | + | + | A | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spleen<br>Lymphoma Malignant                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Thymus<br>Lymphoma Malignant<br>Thymoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

INTEGUMENTARY SYSTEM

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 6 | 7 | 7 | 4 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>3.0W/kg(GSM)chr</b>                 | 9 | 3 | 3 | 5 | 2 | 3 | 9 | 3 | 2 | 2 | 3 | 0 | 2 | 0 | 5 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID                              | 9 | 1 | 0 | 4 | 8 | 3 | 3 | 9 | 8 | 2 | 6 | 8 | 7 | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 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 |
|  | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  | 4 | 5 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 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 |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

males (cont...)

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

Meninges, Granular Cell Tumor Benign

Meninges, Granular Cell Tumor Malignant

X

Nerve Trigeminal

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

+ + + + + M + + I +

Peripheral Nerve, Sciatic Lymphoma Malignant

+ +

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical Lymphoma Malignant

+ +

Spinal Cord, Lumbar Lymphoma Malignant

+ +

Spinal Cord, Thoracic

+ +

Trigeminal Ganglion Sarcoma, Metastatic, Eye Schwannoma Malignant

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

**RESPIRATORY SYSTEM**

Lung 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0699  | 0731  | 0730  | 0454  | 0728  | 0773  | 0663  | 0593  | 0629  | 0678  | 0722  | 0760  | 0770  | 0770  | 0550  | 0733  | 0733  | 0663  | 0733  | 0770  | 0770  | 0770  | 0770  | 0770  | 0770  |
|  | ANIMAL ID   | 00954 | 00955 | 00957 | 00959 | 00960 | 00961 | 00962 | 00963 | 00964 | 00965 | 00966 | 00967 | 00968 | 00969 | 00970 | 00971 | 00972 | 00973 | 00974 | 00975 | 00976 | 00977 | 00978 | 00979 | 00980 |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

males  
(cont...)

Lymphoma Malignant

Oncocytoma Benign

Sarcoma

Renal Tubule, Adenoma

X

X

X

Urethra

Transitional Epithelium, Papilloma

Urinary Bladder

Carcinoma, Metastatic, Prostate

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

SYSTEMIC LESIONS

Multiple Organ

Lymphoma Malignant

Mesothelioma Malignant

+ +

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

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|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0731  | 0673  | 0773  | 0674  | 0774  | 0572  | 0773  | 0774  | 0773  | 0772  | 0772  | 0575  | 0772  | 0773  | 0773  | 0774  | 0774  | 0677  | 0773  | 0773  | 0673  | 0673  | 0671  | 0675  | 0773  | <b>males</b><br><b>(cont...)</b> |
|  | ANIMAL ID   | 00983 | 00984 | 00985 | 00986 | 00987 | 00988 | 00989 | 00990 | 00991 | 00992 | 00993 | 00994 | 00995 | 00996 | 00997 | 00998 | 00999 | 00100 | 00101 | 00102 | 00103 | 00104 | 00105 | 00106 | 00107 |                                  |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + |   |
| Intestine Large, Colon<br>Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + |   |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |   |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |   |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | A | + |   |
| Intestine Small, Jejunum<br>Adenocarcinoma  | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | A | + |   |
| Liver<br>Hepatocellular Carcinoma<br>Lymphoma Malignant<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mesentery<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla   |   |   |   |   |   | + |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>Adenoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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                            | 0673  | 0773  | 0773  | 0612  | 0723  | 0733  | 0733  | 0733  | 0733  | 0733  | 0503  | 0733  | 0733  | 0733  | 0733  | 0733  | 0673  | 0733  | 0733  | 0663  | 0663  | 0731  |       |           |                 |       |
| 3.0W/kg(GSM)chr | 00983                           | 00984 | 00985 | 00986 | 00987 | 00988 | 00989 | 00990 | 00991 | 00992 | 00993 | 00994 | 00995 | 00996 | 00997 | 00998 | 00999 | 00000 | 00001 | 00002 | 00003 | 00004 | 00005 | 00006 | 00007     | 00008           | 00009 |

Adenoma, Multiple X X X  
 Carcinoma X X  
 Lymphoma Malignant  
 Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Salivary Glands Lymphoma Malignant +

Stomach, Forestomach Lymphoma Malignant +

Stomach, Glandular Lymphoma Malignant + A + +

Tooth Odontoma

CARDIOVASCULAR SYSTEM

Aorta +

Blood Vessel

Heart Lymphoma Malignant Endocardium, Schwannoma Malignant +

ENDOCRINE SYSTEM

Adrenal Cortex +

\* .. 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 - 59

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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

Species/Strain: RATS/HSD

Lab: IIT

|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |       |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0731  | 0673  | 0773  | 0674  | 0752  | 0573  | 0773  | 0773  | 0773  | 0773  | 0575  | 0773  | 0773  | 0773  | 0773  | 0676  | 0773  | 0773  | 0676  | 0676  | 0773  | males<br>(cont...) |       |
|   | ANIMAL ID   | 00983 | 00984 | 00985 | 00986 | 00987 | 00988 | 00989 | 00990 | 00991 | 00992 | 00993 | 00994 | 00995 | 00996 | 00997 | 00998 | 00999 | 00100 | 00101 | 00102 | 00103 |                    | 00104 |
|   |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                    | 0     |

GENERAL BODY SYSTEM

Tissue NOS +  
 Abdominal, Fat, Pheochromocytoma Malignant,  
 Metastatic, Adrenal Medulla

GENITAL SYSTEM

Epididymis +  
 Lymphoma Malignant  
 Mesothelioma Malignant X

Preputial Gland +  
 Lymphoma Malignant

Prostate +  
 Adenoma  
 Carcinoma  
 Lymphoma Malignant

Seminal Vesicle +  
 Lymphoma Malignant

Testis +  
 Lymphoma Malignant  
 Mesothelioma Malignant  
 Interstitial Cell, Adenoma X

HEMATOPOIETIC 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|   | 0731        | 0673  | 0773  | 0674  | 0774  | 0572  | 0773  | 0774  | 0773  | 0772  | 0575  | 0772  | 0773  | 0771  | 0774  | 0774  | 0677  | 0773  | 0772  | 0674  | 0773  | 0671  | 0675  | 0771  |                    |
| ANIMAL ID   | 00983       | 00984 | 00985 | 00986 | 00987 | 00988 | 00989 | 00990 | 00991 | 00992 | 00993 | 00994 | 00995 | 00996 | 00997 | 00998 | 00999 | 00000 | 00001 | 00002 | 00003 | 00004 | 00005 | 00006 | 00007              |
| Bone Marrow<br>Lymphoma Malignant                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Lymph Node<br>Bronchial, Lymphoma Malignant           |             | +     |       |       | +     |       |       |       |       | +     |       |       | +     | +     | +     |       |       |       |       |       |       | +     |       |       |                    |
| Lymph Node, Mandibular<br>Lymphoma Malignant          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Lymph Node, Mesenteric<br>Lymphoma Malignant          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Spleen<br>Lymphoma Malignant                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Thymus<br>Lymphoma Malignant<br>Thymoma Benign        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| <b>INTEGUMENTARY SYSTEM</b>                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Mammary Gland   | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |

\* .. 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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First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

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 |  |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> |                        | 7           | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7                      |   |  |
|  | <b>3.0W/kg(GSM)chr</b> | 3           | 7 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 2 | 3 | 7 | 3 | 3 | 3 | 6 | 6                      |   |  |
|  |                        | 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                      |   |  |
|  |                        | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9                      |   |  |
|  |                        | 8           | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8                      |   |  |
|  |                        | 3           | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | <b>males (cont...)</b> |   |  |

Adenocarcinoma  
Fibroadenoma

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Carcinoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                                     |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |
| Neural Crest Tumor                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma                        |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Hemangiopericytoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lipoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lymphoma Malignant             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Malignant Fibrous Histiocytoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Myxosarcoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma, Metastatic, Eye |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST<br><b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b><br><b>3.0W/kg(GSM)chr</b> | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|   | 0731      | 0673 | 0773 | 0764 | 0774 | 0572 | 0773 | 0774 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 |                    |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion                               |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                    |
| Meninges, Granular Cell Tumor Benign  |           |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Meninges, Granular Cell Tumor Malignant   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Nerve Trigeminal  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion                               |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |                    |
| Peripheral Nerve, Sciatic   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Lymphoma Malignant  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Peripheral Nerve, Tibial  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Spinal Cord, Cervical   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Lymphoma Malignant  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Spinal Cord, Lumbar   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Lymphoma Malignant  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Spinal Cord, Thoracic   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| Trigeminal Ganglion   | +         | +    | +    | +    | +    | +    | M    | +    | +    | +    | M    | M    | +    | +    | +    | +    | M    | M    | M    | +    | +    | +    | +    |      |                    |
| Sarcoma, Metastatic, Eye  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Schwannoma Malignant  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |                    |
| <b>RESPIRATORY SYSTEM</b>   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Lung  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |                    |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

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Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0731                            | 0673 | 0733 | 0734 | 0674 | 0752 | 0773 | 0773 | 0773 | 0773 | 0755 | 0777 | 0777 | 0773 | 0773 | 0773 | 0773 | 0773 | 0677 | 0773 | 0773 | 0676 | 0676 | 0773 |           |                 |
| 3.0W/kg(GSM)chr | 0093                            | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0093      |                 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Sarcoma, Metastatic, Eye                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

**SPECIAL SENSES SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Choroid, Schwannoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Retrobulbar, Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

\* .. 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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|   |  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |       |       |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-------|
| <p>DAY ON TEST</p> <p><b>HARLAN SPRAGUE DAWLEY RATS</b></p> <p><b>MALE</b></p> <p><b>3.0W/kg(GSM)chr</b></p> <p>ANIMAL ID</p> |  | 0731  | 0673  | 0773  | 0674  | 0774  | 0572  | 0773  | 0774  | 0773  | 0772  | 0575  | 0772  | 0771  | 0774  | 0774  | 0677  | 0774  | 0772  | 0673  | 0671  | 0675  | 0673  | 0671  | <p><b>males</b></p> <p><b>(cont...)</b></p> |       |       |
|   |  | 00983 | 00984 | 00985 | 00986 | 00987 | 00988 | 00989 | 00990 | 00991 | 00992 | 00993 | 00994 | 00995 | 00996 | 00997 | 00998 | 00999 | 00000 | 00001 | 00002 | 00003 | 00004 | 00005 |   | 00007 | 00008 |
|   |  | 07    | 06    | 07    | 07    | 06    | 07    | 05    | 07    | 07    | 07    | 07    | 05    | 07    | 07    | 07    | 07    | 06    | 07    | 07    | 06    | 06    | 06    | 06    |   | 06    | 07    |

Lymphoma Malignant  
Oncocytoma Benign  
Sarcoma  
Renal Tubule, Adenoma

Urethra  
Transitional Epithelium, Papilloma

Urinary Bladder  
Carcinoma, Metastatic, Prostate

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

**SYSTEMIC LESIONS**

Multiple Organ  
Lymphoma Malignant  
Mesothelioma Malignant

+ +

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. 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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 5 | 5 |   |
|  | <b>3.0W/kg(GSM)chr</b> | 0 | 3 | 7 | 1 | 4 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 9 | 2 |   |
|  |                        | 1 | 1 | 9 | 7 | 9 | 2 | 3 | 6 | 4 | 7 | 4 | 0 | 1 | 4 | 6 |   |
|  | 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 |   |
|  |                        | 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 | 2 | 2 | 2 | 2 | 2 |   |
|  |                        | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Intestine Large, Cecum   | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | <b>79</b> |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | <b>81</b> |
| Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | <b>85</b> |
| Intestine Small, Duodenum  | + | + | + | + | A | + | + | + | + | A | + | + | + | + | A | + | <b>79</b> |
| Intestine Small, Ileum   | + | + | + | A | + | + | + | + | + | A | + | + | + | + | A | + | <b>78</b> |
| Intestine Small, Jejunum   | + | + | + | A | A | + | + | A | + | A | + | + | + | + | A | + | <b>70</b> |
| Adenocarcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hepatocellular Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Mesentery  |   |   |   |   |   | + |   |   |   |   |   |   |   |   | + |   | <b>17</b> |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Pancreas   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>14</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 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 | ANIMAL ID       |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
|  | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 5 | 5 |   |                 |  |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 0 | 3 | 7 | 1 | 4 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 9 | 2 |   |                 |  |
| <b>3.0W/kg(GSM)chr</b>                 | 1 | 1 | 9 | 7 | 9 | 2 | 3 | 6 | 4 | 7 | 4 | 0 | 1 | 4 | 6 |   |                 |  |
|  | 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 |   |                 |  |
|  | 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 | 2 | 2 | 2 | 2 | 2 |   |                 |  |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |                 |  |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |  |

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Adenoma, Multiple                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>4</b> |
| Carcinoma   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>2</b> |
| Lymphoma Malignant                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b> |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b> |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Salivary Glands    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymphoma Malignant |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>87</b> |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

|          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Tooth    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b> |
| Odontoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b> |

**CARDIOVASCULAR SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

|              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Blood Vessel |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b> |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymphoma Malignant                |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Endocardium, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**ENDOCRINE SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |          |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|
|   | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 5 | 5 |   |          |    |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE                    | 0 | 3 | 7 | 1 | 4 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 9 | 2 |   |          |    |
|   | 1 | 1 | 9 | 7 | 9 | 2 | 3 | 6 | 4 | 7 | 4 | 0 | 1 | 4 | 6 |   |          |    |
| 3.0W/kg(GSM)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   | 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 |   |          |    |
|   | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |   |          |    |
|   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |          |    |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |    |
| Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X        | 2  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2  |
| Capsule, Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X        | 1  |
| Adrenal Medulla                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | 89       |    |
| Pheochromocytoma Benign                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X X      | 19 |
| Pheochromocytoma Benign, Multiple                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2  |
| Pheochromocytoma Malignant                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 4  |
| Bilateral, Pheochromocytoma Benign                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X        | 4  |
| Islets, Pancreatic                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |   | 86       |    |
| Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X        | 9  |
| Adenoma, Multiple                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |
| Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 10 |
| Parathyroid Gland                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | 87       |    |
| Pituitary Gland                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | 90       |    |
| Sarcoma, Metastatic, Eye                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |
| Pars Distalis, Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X        | 25 |
| Pars Distalis, Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | 89       |    |
| Bilateral, C-cell, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |
| C-cell, Adenoma                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X        | 7  |
| C-cell, Carcinoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X        | 2  |
| Follicular Cell, 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

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

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

GENERAL BODY SYSTEM

|  |   |
|--|---|
| Tissue NOS   | 4 |
| Abdominal, Fat, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla | 1 |

GENITAL SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesothelioma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6  |
| Preputial Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Prostate                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma                    |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   | 6  |
| Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant         |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Seminal Vesicle            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant         |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Testis                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesothelioma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Interstitial Cell, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |

HEMATOPOIETIC SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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M .. Missing tissue  
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BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr                   | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|   | 05          | 07 | 05 | 07 | 06 | 07 | 07 | 06 | 07 | 05 | 06 | 07 | 07 | 05 | 05 |          |
| ANIMAL ID   | 01          | 03 | 07 | 01 | 04 | 03 | 03 | 03 | 03 | 02 | 01 | 03 | 03 | 09 | 02 |          |
| Bone Marrow   | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 90       |
| Lymphoma Malignant  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Lymph Node  |             |    |    | +  |    |    |    |    |    |    |    | +  |    |    |    | 18       |
| Bronchial, Lymphoma Malignant   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Lumbar, Lymphoma Malignant  |             |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Mediastinal, Lymphoma Malignant   |             |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 2        |
| Mediastinal, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Pancreatic, Lymphoma Malignant  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Pancreatic, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Renal, Lymphoma Malignant   |             |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Lymph Node, Mandibular  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | M  | 89       |
| Lymphoma Malignant  |             |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 3        |
| Lymph Node, Mesenteric  | +           | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 86       |
| Lymphoma Malignant  |             |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 3        |
| Spleen  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | 89       |
| Lymphoma Malignant  |             |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 3        |
| Thymus  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 88       |
| Lymphoma Malignant  |             |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Thymoma Benign  |             |    |    |    |    |    | X  |    |    |    |    |    |    |    |    | 1        |
| <b>INTEGUMENTARY SYSTEM</b>   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| Mammary Gland   | +           | +  | +  | M  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | M  | 82       |

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 BLANK .. Not examined microscopically

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

Lab: IIT

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

|                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Adenocarcinoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b> |
| Fibroadenoma   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>4</b> |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Basal Cell Carcinoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Keratoacanthoma                                     |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>9</b>  |
| Neural Crest Tumor                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Sarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Fibroma                        | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | <b>7</b>  |
| Subcutaneous Tissue, Fibrosarcoma                   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Hemangiopericytoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Lipoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Lymphoma Malignant             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Malignant Fibrous Histiocytoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Myxosarcoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

MUSCULOSKELETAL SYSTEM

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

NERVOUS SYSTEM

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Glioma Malignant         |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Lymphoma Malignant       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Sarcoma, Metastatic, Eye |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. 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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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         |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
|   | 5               | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 5 | 5 | 5 | 5 | 5         |
| <b>HARLAN SPRAGUE DAWLEY RATS</b>                     | 0               | 3 | 7 | 1 | 4 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 9 | 2 | 2 | 2 | 2         |
| <b>MALE</b>   | 1               | 1 | 9 | 7 | 9 | 2 | 3 | 6 | 4 | 7 | 4 | 0 | 1 | 4 | 6 |   |   |           |
| <b>3.0W/kg(GSM)chr</b>                                | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |
| <b>ANIMAL ID</b>                                      | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1         |
|   | 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         |
|   | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |   |           |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Meninges, Granular Cell Tumor Benign                  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Meninges, Granular Cell Tumor Malignant               |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Nerve Trigeminal                                      | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>87</b> |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Peripheral Nerve, Sciatic                             | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant                                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Peripheral Nerve, Tibial                              | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
| Spinal Cord, Cervical                                 | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant                                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Spinal Cord, Lumbar                                   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant                                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Spinal Cord, Thoracic                                 | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
| Trigeminal Ganglion                                   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Sarcoma, Metastatic, Eye                              |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>77</b> |
| Schwannoma Malignant                                  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>RESPIRATORY SYSTEM</b>                             |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Lung  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant                                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr                 | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>5<br>0<br>1      | 0<br>7<br>3<br>1      | 0<br>5<br>7<br>9      | 0<br>7<br>1<br>7      | 0<br>6<br>4<br>9      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>3<br>6      | 0<br>7<br>3<br>4      | 0<br>5<br>2<br>7      | 0<br>6<br>1<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>1      | 0<br>5<br>9<br>4      | 0<br>5<br>2<br>6      |          |
| ANIMAL ID   | 0<br>1<br>0<br>1<br>0 | 0<br>1<br>0<br>1<br>0 | 0<br>1<br>0<br>1<br>2 | 0<br>1<br>0<br>1<br>3 | 0<br>1<br>0<br>1<br>4 | 0<br>1<br>0<br>1<br>5 | 0<br>1<br>0<br>1<br>6 | 0<br>1<br>0<br>1<br>7 | 0<br>1<br>0<br>1<br>8 | 0<br>1<br>0<br>1<br>9 | 0<br>1<br>0<br>2<br>0 | 0<br>1<br>0<br>2<br>1 | 0<br>1<br>0<br>2<br>2 | 0<br>1<br>0<br>2<br>3 | 0<br>1<br>0<br>2<br>4 |          |
|   | Nose                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Sarcoma, Metastatic, Eye  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Trachea   | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| <b>SPECIAL SENSES SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Eye   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | 87                    |          |
| Lymphoma Malignant  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Choroid, Schwannoma Malignant   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Retrobulbar, Sarcoma  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Harderian Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Lymphoma Malignant  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Schwannoma Malignant  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Lacrimal Gland  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| <b>URINARY SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Kidney  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |          |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST   |  | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 5 | 5 |          |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr |  | 0 | 3 | 7 | 1 | 4 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 9 | 2 |          |
| ANIMAL ID   |  | 1 | 1 | 9 | 7 | 9 | 2 | 3 | 6 | 4 | 7 | 4 | 0 | 1 | 4 | 6 |          |
|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|   |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | 2 | 2 | 2 | 2 | 2 |          |
|   |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |          |
| Lymphoma Malignant                                    |  |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Oncocytoma Benign                                     |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Sarcoma   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Renal Tubule, Adenoma                                 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3        |
| Urethra   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Transitional Epithelium, Papilloma                    |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Urinary Bladder                                       |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 86       |
| Carcinoma, Metastatic, Prostate                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| <b>SYSTEMIC LESIONS</b>                               |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Multiple Organ  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Lymphoma Malignant                                    |  |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 4        |
| Mesothelioma Malignant                                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6        |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS MALE | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | males (cont...) |
|---------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|
|                                 | 07          | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 | 03 | 07 |                 |
| 6.0W/kg(GSM)chr                 | 37          | 84 | 33 | 31 | 34 | 16 | 34 | 32 | 00 | 33 | 11 | 82 | 72 | 32 | 87 | 42 | 94 | 02 | 30 | 33 | 37 | 33 | 37 | 19 | 19 | 57              |
| ANIMAL ID                       | 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              |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                  | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                  | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Adenocarcinoma                | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                  | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | A | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Adenocarcinoma                 | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | A | A | + | + | + | + | + | + | + | + | + |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

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<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|   | 0737        | 0384 | 0733 | 0771 | 0774 | 0776 | 0777 | 0778 | 0500 | 0703 | 0663 | 0668 | 0473 | 0584 | 0227 | 0694 | 0772 | 0773 | 0777 | 0679 | 0771 | 0779 | 0675 | 0776 |                    |
| ANIMAL ID   | 0111        | 0113 | 0114 | 0115 | 0116 | 0117 | 0118 | 0119 | 0110 | 0111 | 0112 | 0113 | 0114 | 0115 | 0116 | 0117 | 0118 | 0119 | 0110 | 0111 | 0112 | 0113 | 0114 | 0115 | 0116               |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma, Multiple                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Adrenal Cortex |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endocardium, Schwannoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |
| Myocardium, Schwannoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ENDOCRINE SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Adenoma        |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

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<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0737        | 0384 | 0733 | 0731 | 0774 | 0776 | 0777 | 0778 | 0500 | 0733 | 0631 | 0668 | 0472 | 0738 | 0524 | 0699 | 0700 | 0703 | 0703 | 0707 | 0679 | 0711 | 0679 | 0709 | 0709 |           |                    |
| Adrenal Medulla                                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |
| Pheochromocytoma Benign                               | X           |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |           | X                  |
| Islets, Pancreatic                                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |
| Adenoma   | X           |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      | X    |      |      |      |           |                    |
| Adenoma, Multiple                                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Carcinoma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Parathyroid Gland                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | M    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +         |                    |
| Adenoma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Pituitary Gland                                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |
| Schwannoma Malignant, Metastatic, Harderian Gland     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Pars Distalis, Adenoma                                |             | X    |      |      | X    | X    |      | X    | X    | X    | X    |      |      | X    |      |      |      |      | X    |      |      | X    |      |      |      |           |                    |
| Thyroid Gland   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |
| Bilateral, C-cell, Adenoma                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| C-cell, Adenoma                                       |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| C-cell, Carcinoma                                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Follicular Cell, Carcinoma                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |

GENERAL BODY SYSTEM

Tissue NOS  
Mediastinum, Chemodectoma Benign

+  
X

GENITAL SYSTEM

Coagulating 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|   | 0737        | 0384 | 0733 | 0771 | 0774 | 0776 | 0777 | 0777 | 0777 | 0500 | 0703 | 0621 | 0663 | 0473 | 0584 | 0227 | 0694 | 0770 | 0773 | 0773 | 0679 | 0771 | 0679 | 0765 |           |                    | 0776 |
|   | 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               |      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis<br>Mesothelioma Malignant                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Penis  |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Preputial Gland<br>Squamous Cell Carcinoma                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate<br>Adenoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testis<br>Mesothelioma Malignant<br>Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow<br>Hemangioma<br>Leukemia Mononuclear<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node<br>Mediastinal, Lymphoma Malignant                           |   |   | + |   |   |   |   |   | + |   |   |   |   |   | + |   | + |   | + |   |   |   |   |   |   | + |
| Lymph Node, Mandibular<br>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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|   | 0737        | 0384 | 0733 | 0771 | 0774 | 0776 | 0777 | 0777 | 0570 | 0730 | 0663 | 0473 | 0758 | 0243 | 0722 | 0664 | 0770 | 0773 | 0773 | 0773 | 0671 | 0771 | 0671 | 0765 |                    |
| ANIMAL ID   | 0111        | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric<br>Carcinoma, Metastatic, Intestine Small,<br>Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Capsule, Carcinoma, Metastatic, Intestine<br>Small, Jejunum                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

INTEGUMENTARY SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Fibroadenoma     | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | M | + | M | + | + | + | + | + | + |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Hibernoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Sarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                    |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 07 | 03 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 06 | 06 | 04 | 07 | 05 | 02 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 07 | 06 | males<br>(cont...) |
|   | ANIMAL ID   | 37 | 84 | 33 | 31 | 34 | 36 | 34 | 32 | 00 | 33 | 21 | 38 | 22 | 22 | 84 | 94 | 02 | 33 | 33 | 37 | 37 | 33 | 19 | 19 | 57 |                    |
|   |             | 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 |                    |

MUSCULOSKELETAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle<br>Diaphragm, Carcinoma, Metastatic, Intestine<br>Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain<br>Glioma Malignant<br>Leukemia Mononuclear<br>Meninges, Granular Cell Tumor Benign | + | + | + | X | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nerve Trigeminal  | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Spinal Cord, Cervical<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion   | + | + | 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  
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Experiment Number: 20105 - 59

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

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Lab: IIT

|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 07 | 03 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 06 | 06 | 04 | 07 | 05 | 02 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 07 | 06 |
|  | ANIMAL ID   | 37 | 84 | 33 | 31 | 34 | 16 | 34 | 32 | 00 | 33 | 21 | 38 | 72 | 32 | 82 | 47 | 94 | 02 | 33 | 33 | 37 | 37 | 31 | 19 | 19 | 57 |
|  |             | 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 |

males  
(cont...)

**RESPIRATORY SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant          |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma, Metastatic, Kidney |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lacrimal Gland       |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Renal Tubule, Adenoma   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Renal Tubule, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                    | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                    |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 07 | 03 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 06 | 06 | 04 | 07 | 05 | 02 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 07 | 06 | males<br>(cont...) |
|   | ANIMAL ID   | 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 |                    |
|   |             | 37 | 84 | 33 | 31 | 34 | 64 | 34 | 22 | 00 | 33 | 21 | 38 | 73 | 84 | 97 | 44 | 22 | 03 | 33 | 33 | 37 | 37 | 19 | 19 | 57 |                    |

SYSTEMIC LESIONS

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                  |   |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------------|---|--|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>6.0W/kg(GSM)chr</b> | 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 | <b>males</b><br><b>(cont...)</b> |   |  |
|  | ANIMAL ID   | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 |                                  | 7 |  |
|  |             | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3                                |   |  |
|  |             | 2 | 1 | 7 | 9 | 1 | 1 | 4 | 0 | 4 | 0 | 3 | 4 | 4 | 7 | 2 | 1 | 1 | 3 | 0 | 2 | 2 | 5 | 1 | 1 | 1 | 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 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                                |   |  |
|  |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8                                |   |  |
|  |             | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7                                | 8 |  |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                     | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                     | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma                | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Small, Ileum                                     | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma                 | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Carcinoma, Metastatic, Intestine Small,<br>Jejunum |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery  |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   | + | + |   |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

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

Pancreas  
Adenoma  
Adenoma, Multiple  
Carcinoma, Metastatic, Intestine Small, Jejunum

+ A +  
 X X X

Salivary Glands

+ +

Stomach, Forestomach  
Sarcoma  
Squamous Cell Carcinoma

+ +

Stomach, Glandular

+ A +

**CARDIOVASCULAR SYSTEM**

Aorta

+ +

Heart  
Carcinoma, Metastatic, Adrenal Cortex  
Leukemia Mononuclear  
Endocardium, Schwannoma Malignant  
Myocardium, Schwannoma Malignant

+  
 X

**ENDOCRINE SYSTEM**

Adrenal Cortex  
Adenoma  
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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

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

Adrenal Medulla  
Pheochromocytoma Benign

+ + + I +  
X X

Islets, Pancreatic  
Adenoma  
Adenoma, Multiple  
Carcinoma

+ A +  
X  
X X

Parathyroid Gland  
Adenoma

+ M M + M  
X X

Pituitary Gland  
Schwannoma Malignant, Metastatic, Harderian  
Gland  
Pars Distalis, Adenoma

+  
X  
X X

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

+ A +  
X  
X X

GENERAL BODY SYSTEM

Tissue NOS  
Mediastinum, Chemodectoma Benign

+ +

GENITAL SYSTEM

Coagulating 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 - 59

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Lab: IIT

|  |  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...) |                       |                       |                       |                       |   |   |   |   |   |   |   |   |   |
|--|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr          |  | 0<br>7<br>3<br>2      | 0<br>6<br>3<br>1      | 0<br>7<br>3<br>7      | 0<br>4<br>8<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>5<br>9<br>5      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       |                       |                    |                       |                       |                       |                       |   |   |   |   |   |   |   |   |   |
| ANIMAL ID  |  | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>1<br>6<br>3 | 0<br>1<br>1<br>6<br>4 | 0<br>1<br>1<br>6<br>5 | 0<br>1<br>1<br>6<br>6 | 0<br>1<br>1<br>6<br>7 | 0<br>1<br>1<br>6<br>8 | 0<br>1<br>1<br>6<br>9 | 0<br>1<br>1<br>7<br>0 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>7<br>2 | 0<br>1<br>1<br>7<br>3 | 0<br>1<br>1<br>7<br>4 | 0<br>1<br>1<br>7<br>5 | 0<br>1<br>1<br>7<br>6 | 0<br>1<br>1<br>7<br>7 | 0<br>1<br>1<br>7<br>8 | 0<br>1<br>1<br>7<br>9 | 0<br>1<br>1<br>8<br>0 | 0<br>1<br>1<br>8<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>1<br>1<br>8<br>3 | 0<br>1<br>1<br>8<br>4 |                    | 0<br>1<br>1<br>8<br>5 | 0<br>1<br>1<br>8<br>6 | 0<br>1<br>1<br>8<br>7 | 0<br>1<br>1<br>8<br>8 |   |   |   |   |   |   |   |   |   |
| Epididymis<br>Mesothelioma Malignant                           |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  | +                     | +                     | +                     | +                     | + | + | + | + | + | + | + | + | + |
| Penis  |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |                       |                       |                       |                       |   |   |   |   |   |   |   |   |   |
| Preputial Gland<br>Squamous Cell Carcinoma                     |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  | +                     | +                     | +                     | +                     | + | + | + | + | + | + | + | + | + |
| Prostate<br>Adenoma  |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  | +                     | +                     | +                     | +                     | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle  |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  | +                     | +                     | +                     | +                     | + | + | + | + | + | + | + | + | + |
| Testis<br>Mesothelioma Malignant<br>Interstitial Cell, Adenoma |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  | +                     | +                     | +                     | +                     | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

|   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow<br>Hemangioma<br>Leukemia Mononuclear<br>Lymphoma Malignant |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node<br>Mediastinal, Lymphoma Malignant                           |  | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular<br>Lymphoma Malignant                            |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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Lab: IIT

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

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Lymph Node, Mesenteric<br>Carcinoma, Metastatic, Intestine Small,<br>Jejunum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
| Hemangiosarcoma<br>Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | X |
| Spleen<br>Hemangiosarcoma<br>Leukemia Mononuclear<br>Lymphoma Malignant<br>Capsule, Carcinoma, Metastatic, Intestine<br>Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
| Thymus<br>Lymphoma Malignant<br>Thymoma Malignant  | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | X |

INTEGUMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Fibroadenoma   | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Skin<br>Basal Cell Adenoma<br>Keratoacanthoma<br>Subcutaneous Tissue, Fibroma<br>Subcutaneous Tissue, Fibrosarcoma<br>Subcutaneous Tissue, Hibernoma<br>Subcutaneous Tissue, Lipoma<br>Subcutaneous Tissue, Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                                  |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0732   | 0631   | 0737   | 0489   | 0731   | 0774   | 0777   | 0777   | 0777   | 0777   | 0676   | 0773   | 0773   | 0777   | 0777   | 0777   | 0777   | 0777   | 0777   | 0575   | 0777   | 0777   | <b>males</b><br><b>(cont...)</b> |
|  | ANIMAL ID   | 011161 | 011166 | 011163 | 011164 | 011165 | 011166 | 011167 | 011168 | 011169 | 011170 | 011171 | 011172 | 011173 | 011174 | 011175 | 011176 | 011177 | 011178 | 011179 | 011180 | 011181 | 011182 |                                  |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Diaphragm, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

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

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

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

**RESPIRATORY SYSTEM**

|                             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|-----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Lung                        | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Leukemia Mononuclear        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Lymphoma Malignant          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Sarcoma, Metastatic, Kidney |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |
| Nose                        | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Trachea                     | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |

**SPECIAL SENSES SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye                  | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Harderian Gland      | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lacrimal Gland       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**URINARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney                             | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Mononuclear               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |  |
| Bilateral, Renal Tubule, Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bilateral, Renal Tubule, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Renal Tubule, Adenoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |  |
| Urinary Bladder                    | + | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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Lab: IIT

|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                    |    |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 07 | 06 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | males<br>(cont...) |    |
|   | ANIMAL ID   | 32 | 31 | 37 | 38 | 33 | 33 | 33 | 33 | 33 | 33 | 37 | 33 | 33 | 31 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 39 | 33 |                    | 33 |
|   |             | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01                 |    |
|   |             | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11                 |    |
|   |             | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | 68 | 68 | 68                 |    |
|   |             | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 00 | 01 | 02 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 07 | 08                 |    |

**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 - 59

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Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

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Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0397 | 0732 | 0733 | 0737 | 0544 | 0733 | 0559 | 0553 | 0719 | 0772 | 0770 | 0774 | 0556 | 0764 | 0688 | 0731 | 0774 | 0773 | 0773 | 0733 | 0733 | 0734 | 0732 | 0443 | 0730 | <b>males</b><br><b>(cont...)</b> |
|  | ANIMAL ID   | 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 |                                  |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                     | A | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                     | A | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                    | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma                | A | + | + | + | A | + | + | A | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                     | A | + | + | + | + | + | + | A | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma                 | A | + | + | + | A | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Carcinoma, Metastatic, Intestine Small,<br>Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

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

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |
| Adenoma, Multiple                               |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma                         |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Adrenal Cortex |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                  |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endocardium, Schwannoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myocardium, Schwannoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |

ENDOCRINE SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma      |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Species/Strain: RATS/HSD

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0397        | 0732 | 0733 | 0737 | 0544 | 0733 | 0559 | 0553 | 0711 | 0713 | 0713 | 0713 | 0579 | 0764 | 0768 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0447 | 0730 |           |                    |
|   | 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 |           |                    |
|   | 1118        | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 | 1119 |           |                    |

Adrenal Medulla  
Pheochromocytoma Benign

+ + + + + I + + + + + A + + + + + + + + + + + + + + +

Islets, Pancreatic  
Adenoma  
Adenoma, Multiple  
Carcinoma

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

Parathyroid Gland  
Adenoma

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

Pituitary Gland  
Schwannoma Malignant, Metastatic, Harderian  
Gland  
Pars Distalis, Adenoma

+  
X  
X X X X X

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

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

**GENERAL BODY SYSTEM**

Tissue NOS  
Mediastinum, Chemodectoma Benign

+ +

**GENITAL SYSTEM**

Coagulating 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 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>6.0W/kg(GSM)chr</b> |  | 3 | 7 | 7 | 7 | 5 | 7 | 5 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 |   |
|  |  | 9 | 3 | 3 | 3 | 4 | 3 | 9 | 3 | 1 | 3 | 3 | 9 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 |   |
|  |  | 7 | 2 | 3 | 7 | 4 | 3 | 7 | 4 | 9 | 2 | 0 | 4 | 6 | 4 | 8 | 1 | 4 | 1 | 7 | 0 | 0 | 4 | 2 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|  |  | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|  |  | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 |   |
|  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

males  
(cont...)

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Penis                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Preputial Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                    |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Seminal Vesicle            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testis                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Interstitial Cell, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangioma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear            |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   | + |   |   |   | + |   |   |   |   |   |   |   |   |   | + |
| Lymph Node, Mandibular          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|   | 0397        | 0732 | 0733 | 0733 | 0544 | 0733 | 0553 | 0553 | 0771 | 0771 | 0771 | 0771 | 0557 | 0766 | 0767 | 0767 | 0767 | 0767 | 0767 | 0767 | 0767 | 0767 | 0447 | 0743 |           |                    | 0743 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 011189             |      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric<br>Carcinoma, Metastatic, Intestine Small,<br>Jejunum<br>Hemangiosarcoma<br>Lymphoma Malignant                  | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Spleen<br>Hemangiosarcoma<br>Leukemia Mononuclear<br>Lymphoma Malignant<br>Capsule, Carcinoma, Metastatic, Intestine<br>Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Thymus<br>Lymphoma Malignant<br>Thymoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | X |   |

**INTEGUMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|
| Mammary Gland<br>Fibroadenoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |                  |
| Skin<br>Basal Cell Adenoma<br>Keratoacanthoma<br>Subcutaneous Tissue, Fibroma<br>Subcutaneous Tissue, Fibrosarcoma<br>Subcutaneous Tissue, Hibernoma<br>Subcutaneous Tissue, Lipoma<br>Subcutaneous Tissue, Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X<br>X<br>X<br>X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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|   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                    |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 03797  | 07733  | 07733  | 0544   | 0737   | 0593   | 0534   | 0719   | 0732   | 0730   | 0734   | 0576   | 0734   | 0688   | 0731   | 0774   | 0773   | 0773   | 0773   | 0733   | 0733   | 0742   | 0743   | 0443   | 0730   | males<br>(cont...) |
|   | ANIMAL ID   | 011189 | 011190 | 011191 | 011192 | 011193 | 011194 | 011195 | 011196 | 011197 | 011198 | 011199 | 011200 | 011201 | 011202 | 011203 | 011204 | 011205 | 011206 | 011207 | 011208 | 011209 | 011210 | 011211 | 011212 | 011213 |                    |

MUSCULOSKELETAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle<br>Diaphragm, Carcinoma, Metastatic, Intestine<br>Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain<br>Glioma Malignant<br>Leukemia Mononuclear<br>Meninges, Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nerve Trigeminal  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial  | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Spinal Cord, Lumbar   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion   | + | + | + | + | + | + | M | + | + | M | M | + | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0397 | 0732 | 0733 | 0737 | 0544 | 0733 | 0559 | 0553 | 0711 | 0773 | 0773 | 0773 | 0593 | 0733 | 0683 | 0733 | 0773 | 0773 | 0773 | 0733 | 0733 | 0733 | 0733 | 0443 | 0730 | <b>males</b><br><b>(cont...)</b> |
|  | ANIMAL ID   | 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 |                                  |

**RESPIRATORY SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear        |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma, Metastatic, Kidney |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                     | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                  | A | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lacrimal Gland       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

**URINARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear               |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Renal Tubule, Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Renal Tubule, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                    | + | + | + | + | + | + | + | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0377 | 0777 | 0577 | 0755 | 0577 | 0555 | 0777 | 0777 | 0777 | 0777 | 0577 | 0777 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0477 | 0777 |     |
|  | ANIMAL ID   | 097  | 032  | 033  | 047  | 034  | 037  | 039  | 033  | 033  | 033  | 093  | 033  | 068  | 038  | 033  | 033  | 033  | 033  | 033  | 033  | 034  | 033  | 043 |
|  |             | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011  | 011 |
|  | 089         | 090  | 091  | 093  | 094  | 095  | 096  | 097  | 098  | 099  | 000  | 001  | 002  | 003  | 005  | 006  | 007  | 008  | 009  | 000  | 001  | 003  | 004  | 005 |

males  
(cont...)

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 |   |   |
|                                   | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 3 | 3 | 5 | 3 | 3 |   |   |
| <b>MALE</b>                       | 2 | 3 | 3 | 0 | 7 | 4 | 1 | 0 | 4 | 6 | 3 | 8 | 4 | 7 | 7 |   |   |
| <b>6.0W/kg(GSM)chr</b>            | 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 |   |   |
| <b>ANIMAL ID</b>                  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |
|                                   | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |   |   |
|                                   | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 |   |   |
| <b>* TOTALS</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Intestine Large, Cecum                                  | + | + | + | + | + | A | + | + | + | A | + | A | + | + | + |  | <b>80</b> |
| Intestine Large, Colon                                  | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |  | <b>82</b> |
| Intestine Large, Rectum                                 | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + |  | <b>87</b> |
| Intestine Small, Duodenum                               | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |  | <b>79</b> |
| Adenocarcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Intestine Small, Ileum                                  | + | + | + | + | + | A | + | + | + | A | + | A | + | + | + |  | <b>76</b> |
| Intestine Small, Jejunum                                | + | + | + | + | + | A | + | + | + | A | + | A | + | + | + |  | <b>76</b> |
| Adenocarcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Hepatocellular Adenoma                                  |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |  | <b>2</b>  |
| Leukemia Mononuclear                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Lymphoma Malignant                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Serosa, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>7</b>  |
| Oral Mucosa   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>2</b>  |
| Squamous Cell Carcinoma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |          |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|   | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 |          |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 3 | 3 | 5 | 3 | 3 |          |
|   | 2 | 3 | 3 | 0 | 7 | 4 | 1 | 0 | 4 | 6 | 3 | 8 | 4 | 7 | 7 |          |
| 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 |          |
|   | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |          |
|   | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |          |
|   | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 |          |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |
| Pancreas  | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 86       |
| Adenoma   | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   | 12       |
| Adenoma, Multiple                                     |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   | 4        |
| Carcinoma, Metastatic, Intestine Small, Jejunum       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Salivary Glands                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Stomach, Forestomach                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Sarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Squamous Cell Carcinoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Stomach, Glandular                                    | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | 86       |
| <b>CARDIOVASCULAR SYSTEM</b>                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Aorta   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Heart   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Carcinoma, Metastatic, Adrenal Cortex                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Leukemia Mononuclear                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Endocardium, Schwannoma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |
| Myocardium, Schwannoma Malignant                      |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 3        |
| <b>ENDOCRINE SYSTEM</b>                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Adrenal Cortex  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88       |
| Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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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Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>7      | 0<br>6<br>7<br>4      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>6      | 0<br>7<br>3<br>3      | 0<br>6<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>7      |          |
| ANIMAL ID   | 0<br>1<br>2<br>1<br>8 | 0<br>1<br>2<br>1<br>9 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>2<br>2<br>2 | 0<br>1<br>2<br>2<br>3 | 0<br>1<br>2<br>2<br>4 | 0<br>1<br>2<br>2<br>5 | 0<br>1<br>2<br>2<br>6 | 0<br>1<br>2<br>2<br>7 | 0<br>1<br>2<br>2<br>8 | 0<br>1<br>2<br>2<br>9 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>2<br>3<br>1 | 0<br>1<br>2<br>3<br>4 | 0<br>1<br>2<br>3<br>5 |          |
| Adrenal Medulla                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87       |
| Pheochromocytoma Benign                               |                       |                       |                       |                       |                       |                       | X                     | X                     |                       |                       | X                     |                       |                       |                       | X                     | 14       |
| Islets, Pancreatic                                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | 85       |
| Adenoma   |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       | 10       |
| Adenoma, Multiple                                     |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       | 1        |
| Carcinoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5        |
| Parathyroid Gland                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 81       |
| Adenoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Pituitary Gland                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Schwannoma Malignant, Metastatic, Harderian Gland     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Pars Distalis, Adenoma                                |                       |                       | X                     |                       |                       |                       | X                     | X                     | X                     |                       |                       |                       |                       |                       |                       | 26       |
| Thyroid Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87       |
| Bilateral, C-cell, Adenoma                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| C-cell, Adenoma                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       | 7        |
| C-cell, Carcinoma                                     |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       | 3        |
| Follicular Cell, Carcinoma                            |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       | 1        |
| <b>GENERAL BODY SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Tissue NOS  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5        |
| Mediastinum, Chemodectoma Benign                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| <b>GENITAL SYSTEM</b>                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Coagulating 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>7      | 0<br>6<br>7<br>4      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>6      | 0<br>7<br>3<br>3      | 0<br>6<br>3<br>8      | 0<br>5<br>5<br>4      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>7      |          |
| ANIMAL ID   | 0<br>1<br>2<br>1<br>8 | 0<br>1<br>2<br>1<br>9 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>2<br>2<br>2 | 0<br>1<br>2<br>2<br>3 | 0<br>1<br>2<br>2<br>4 | 0<br>1<br>2<br>2<br>5 | 0<br>1<br>2<br>2<br>6 | 0<br>1<br>2<br>2<br>7 | 0<br>1<br>2<br>2<br>8 | 0<br>1<br>2<br>2<br>9 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>2<br>3<br>1 | 0<br>1<br>2<br>3<br>4 | 0<br>1<br>2<br>3<br>5 |          |
| Epididymis  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Mesothelioma Malignant                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Penis   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Preputial Gland                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Squamous Cell Carcinoma                               |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Prostate  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Adenoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3        |
| Seminal Vesicle                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Testis  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Mesothelioma Malignant                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Interstitial Cell, Adenoma                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2        |
| <b>HEMATOPOIETIC SYSTEM</b>                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Bone Marrow   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90       |
| Hemangioma  |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Leukemia Mononuclear                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Lymphoma Malignant                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Lymph Node  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       | 12       |
| Mediastinal, Lymphoma Malignant                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Lymph Node, Mandibular                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 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

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 3 | 3 | 5 | 3 | 3 | 3 | 3 |
|                                    | 2 | 3 | 3 | 0 | 7 | 4 | 1 | 0 | 4 | 6 | 3 | 8 | 4 | 7 | 7 | 7 | 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 |
|                                    | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                                    | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                    | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 | 5 | 5 |
| <b>* TOTALS</b>                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Lymph Node, Mesenteric                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b> |
| Carcinoma, Metastatic, Intestine Small, Jejunum          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Hemangiosarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hemangiosarcoma  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | <b>1</b>  |
| Leukemia Mononuclear                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Capsule, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Thymus   | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | <b>86</b> |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Thymoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**INTEGUMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland                     | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + |   |   | <b>82</b> |
| Fibroadenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Basal Cell Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>  |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Subcutaneous Tissue, Hibernoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Subcutaneous Tissue, Sarcoma      |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> |  | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 |   |
|  |  | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 3 | 3 | 5 | 3 | 3 |   |
| <b>6.0W/kg(GSM)chr</b>                 |  | 2 | 3 | 3 | 0 | 7 | 4 | 1 | 0 | 4 | 6 | 3 | 8 | 4 | 7 | 7 |   |
|  |  | 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 |   |
|  |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|  |  | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |   |
|  |  | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 |   |
| <b>* TOTALS</b>                        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Diaphragm, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**NERVOUS SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Leukemia Mononuclear                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | <b>3</b>  |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Leukemia Mononuclear                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Spinal Cord, Thoracic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Leukemia Mononuclear                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Trigeminal Ganglion                  | + | + | + | M | + | + | + | + | M | M | + | I | + | + | + | + | <b>77</b> |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 |   |   |
|                                   | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 3 | 3 | 5 | 3 | 3 |   |   |
| <b>MALE</b>                       | 2 | 3 | 3 | 0 | 7 | 4 | 1 | 0 | 4 | 6 | 3 | 8 | 4 | 7 | 7 |   |   |
| <b>6.0W/kg(GSM)chr</b>            | 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 |   |   |
| <b>ANIMAL ID</b>                  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |
|                                   | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |   |   |
|                                   | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 |   |   |
| <b>* TOTALS</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |           |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Lung                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Leukemia Mononuclear        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Lymphoma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Sarcoma, Metastatic, Kidney |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Nose                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>89</b> |
| Trachea                     | + | + | + | + | + | + | + | + | A | + | + | + | + | + |   |  | <b>86</b> |

**SPECIAL SENSES SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |           |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|-----------|
| Eye                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>83</b> |
| Harderian Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>90</b> |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>2</b>  |
| Lacrimal Gland       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>2</b>  |

**URINARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |           |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|-----------|
| Kidney                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>90</b> |
| Leukemia Mononuclear               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Sarcoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Bilateral, Renal Tubule, Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Bilateral, Renal Tubule, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Renal Tubule, Adenoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | <b>1</b>  |
| Urinary Bladder                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | <b>85</b> |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 |                 |
|  | ANIMAL ID   | 32 | 33 | 33 | 30 | 37 | 44 | 11 | 00 | 44 | 66 | 33 | 88 | 44 | 77 | 77 |                 |
|  |             | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |                 |
|  |             | 21 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |                 |
|  |             | 11 | 11 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 |                 |
|  |             | 89 | 90 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 04 | 05 |    |                 |
|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | <b>* TOTALS</b> |

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Leukemia Mononuclear   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\*\*\* 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  
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|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 050   | 062   | 073   | 073   | 074   | 077   | 066   | 022   | 077   | 057   | 077   | 077   | 077   | 055   | 066   | 055   | 077   | 077   | 077   | 044   | 077   | 077   | 055   | females<br>(cont...) |
|  | ANIMAL ID   | 00607 | 00669 | 00660 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 |                      |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Large, Colon                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                             | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>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

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Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | ANIMAL ID | females<br>(cont...) |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|----------------------|
|   | 050         | 062 | 073 | 073 | 077 | 049 | 074 | 066 | 022 | 077 | 055 | 077 | 077 | 077 | 055 | 066 | 055 | 055 | 077 | 077 | 049 | 077 | 077 | 055 | 077 |           |                      |
|   | 0           | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |           |                      |
|   | 0           | 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   | 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   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |           |                      |

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

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Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|---|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 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 | 5 | 5 |   |
|  | 6 | 6                        | 3 | 3 | 4 | 9 | 4 | 6 | 6 | 4 | 0 | 4 | 4 | 1 | 6 | 2 | 7 | 3 | 1 | 3 | 1 | 6 | 3 | 3 | 4 | 6 | 3 |   |
|  | 0 | 2                        | 9 | 8 | 0 | 3 | 5 | 0 | 8 | 1 | 8 | 4 | 5 | 2 | 5 | 2 | 8 | 1 | 1 | 8 | 9 | 4 | 8 | 7 | 7 | 4 | 7 |   |
| <b>0.0W/kg(GSM)chr</b>                   | 0 | 0                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  | 0 | 0                        | 0 | 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 |   |
|  | 0 | 0                        | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 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 | 5 | 6 |   |   |
|  |   | <b>females (cont...)</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

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 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | 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 | 00613 | 00614 | 00615 | 00616 | 00618 | 00619 | 00621 | 00622 | 00623 | 00624 | 00625 | 00627 | 00628 | 00629 | 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

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

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

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

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I .. Insufficient tissue

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

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST<br>HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | ANIMAL ID |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | females<br>(cont...) |
|--|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------------|
|  | 05006607  | 06666666 | 07777777 | 08888888 | 09999999 | 10000000 | 11111111 | 12222222 | 13333333 | 14444444 | 15555555 | 16666666 | 17777777 | 18888888 | 19999999 | 20000000 | 21111111 | 22222222 | 23333333 | 24444444 | 25555555 | 26666666 | 27777777 | 28888888 |                      |

Lymph Node, Mandibular  
Lymphoma Malignant

+  
X

Lymph Node, Mesenteric  
Lymphoma Malignant

+  
X

Spleen  
Hemangiosarcoma  
Lymphoma Malignant

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

Skin  
Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Malignant Fibrous  
Histiocytoma

+  
X X X

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

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|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 050   | 062   | 073   | 073   | 074   | 077   | 066   | 022   | 077   | 057   | 077   | 077   | 057   | 066   | 055   | 055   | 077   | 077   | 077   | 044   | 077   | 077   | 055   | females (cont...) |
|  | ANIMAL ID   | 00607 | 00669 | 00660 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 | 00661 |                   |

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
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr                                     | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|
|   | 0500        | 0600 | 0700 | 0703 | 0704 | 0707 | 0709 | 0711 | 0713 | 0715 | 0716 | 0718 | 0720 | 0722 | 0724 | 0726 | 0728 | 0730 | 0732 | 0734 | 0736 | 0738 | 0740 | 0742 | 0744 |           |                      | 0746 | 0748 | 0750 |
| Lung<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | X    |      |
| Nose  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    |      |
| Trachea   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    |      |
| <b>SPECIAL SENSES SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |
| Eye   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    |      |
| Harderian Gland   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    |      |
| <b>URINARY SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |
| Kidney<br>Lymphoma Malignant<br>Bilateral, Renal Tubule, Carcinoma<br>Renal Tubule, Adenoma | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | X    |
| Urinary Bladder<br>Leiomyosarcoma<br>Schwannoma Malignant, Metastatic, Tissue<br>Nos        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | A    | +    |
| <b>SYSTEMIC LESIONS</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |
| Multiple Organ<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | X    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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I .. Insufficient tissue

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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|   | 0737        | 0738  | 0749  | 0761  | 0744  | 0766  | 0775  | 0774  | 0777  | 0777  | 0766  | 0774  | 0774  | 0771  | 0755  | 0766  | 0774  | 0773  | 0753  | 0774  | 0774  | 0774  | 0720  | 0773  |                      |
| ANIMAL ID   | 00635       | 00636 | 00637 | 00639 | 00641 | 00642 | 00643 | 00644 | 00645 | 00646 | 00647 | 00648 | 00649 | 00650 | 00651 | 00652 | 00653 | 00654 | 00655 | 00656 | 00657 | 00658 | 00659 | 00660 |                      |

**ALIMENTARY SYSTEM**

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

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+ .. Tissue examined microscopically  
X .. Lesion present  
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M .. Missing tissue  
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|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
|   | 0<br>7<br>3<br>7 | 0<br>7<br>3<br>8 | 0<br>4<br>8<br>9 | 0<br>7<br>4<br>1 | 0<br>6<br>1<br>4 | 0<br>4<br>6<br>4 | 0<br>6<br>5<br>6 | 0<br>7<br>4<br>1 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>0 | 0<br>6<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>5<br>5<br>0 | 0<br>6<br>9<br>0 | 0<br>7<br>4<br>5 | 0<br>7<br>4<br>1 | 0<br>3<br>3<br>8 | 0<br>5<br>7<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>2<br>0<br>2 | 0<br>7<br>3<br>9 |           |                      |
| Lymphoma Malignant                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Salivary Glands   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Stomach, Forestomach                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Lymphoma Malignant                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Sarcoma   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Stomach, Glandular                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Sarcoma, Metastatic, Stomach, Forestomach               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Tongue  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Squamous Cell Carcinoma                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| <b>CARDIOVASCULAR SYSTEM</b>                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Aorta   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Heart   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Lymphoma Malignant                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| <b>ENDOCRINE SYSTEM</b>                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Adrenal Cortex  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Adenoma   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Carcinoma   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Lymphoma Malignant                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Adrenal Medulla   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Pheochromocytoma Benign                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|   | 0737        | 0738 | 0748 | 0764 | 0766 | 0767 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |                      |
|   | ANIMAL ID   | 0065 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 |                      |

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

GENERAL BODY SYSTEM

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS<br>Abdominal, Schwannoma Malignant<br>Abdominal, Fat, Lymphoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

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

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X .. Lesion present  
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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...) |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                 | 0737                              | 0738 | 0748 | 0749 | 0761 | 0764 | 0765 | 0771 | 0774 | 0777 | 0778 | 0779 | 0780 | 0781 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | 0790 | 0791 |           |                   |
| 0.0W/kg(GSM)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         |                   |
|                 | 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    | 6    | 7    | 8    | 9    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 3         |                   |

Sertoli Cell Tumor Benign

Oviduct +

Uterus +

Adenocarcinoma

Hemangiosarcoma X

Lymphoma Malignant X

Polyp Stromal X X X

Polyp Stromal, Multiple

Schwannoma Malignant

Cervix, Leiomyosarcoma

Cervix, Schwannoma Malignant

Vagina +

Schwannoma Malignant X

Schwannoma Malignant, Metastatic, Uterus

HEMATOPOIETIC SYSTEM

Bone Marrow +

Lymph Node + + +

Lymphoma Malignant

Bronchial, Lymphoma Malignant X

Lumbar, Lymphoma Malignant X

Mediastinal, Lymphoma Malignant X

Pancreatic, Lymphoma Malignant X

Renal, 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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  | 0748  | 0774  | 0761  | 0746  | 0765  | 0774  | 0777  | 0777  | 0777  | 0766  | 0777  | 0777  | 0777  | 0755  | 0766  | 0777  | 0777  | 0777  | 0755  | 0777  | 0777  | 0777  |           |                   | 0722 |
| 0.0W/kg(GSM)chr | 00635                             | 00633 | 00637 | 00639 | 00641 | 00642 | 00643 | 00644 | 00644 | 00645 | 00646 | 00646 | 00647 | 00648 | 00649 | 00651 | 00652 | 00653 | 00654 | 00655 | 00655 | 00656 | 00657 | 00658 | 00659     | 00660             |      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin Subcutaneous Tissue, Fibroma Subcutaneous Tissue, Malignant Fibrous Histiocytoma                               | 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 |   |   |   | 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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Date Report Requested: 01/02/2018

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Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0737  | 0738  | 0749  | 0761  | 0744  | 0766  | 0777  | 0777  | 0777  | 0766  | 0777  | 0777  | 0555  | 0666  | 0777  | 0777  | 0555  | 0777  | 0777  | 0777  | 0222  | 0777  | females<br>(cont...) |       |
|  | ANIMAL ID   | 00635 | 00633 | 00637 | 00639 | 00641 | 00642 | 00644 | 00644 | 00645 | 00646 | 00647 | 00648 | 00649 | 00652 | 00653 | 00654 | 00655 | 00655 | 00656 | 00657 | 00658 | 00659 |                      | 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

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | females<br>(cont...) |       |      |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|-------|------|
|   | 0737        | 0738  | 0749  | 0761  | 0764  | 0765  | 0774  | 0777  | 0777  | 0777  | 0766  | 0777  | 0777  | 0777  | 0550  | 0667  | 0774  | 0777  | 0553  | 0774  | 0777  | 0777  | 0552  | 0774  | 0777  |           |                      | 0777  | 0227 |
|   | 00635       | 00633 | 00637 | 00639 | 00641 | 00642 | 00643 | 00644 | 00644 | 00645 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646 | 00646     | 00646                | 00646 |      |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +                    | +     |      |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       | X    |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +                    | +     |      |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +                    | +     |      |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       |      |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +                    | +     |      |
| Harderian Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +                    | +     |      |
| <b>URINARY SYSTEM</b>                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       |      |
| Kidney  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +                    | +     |      |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       | X    |
| Bilateral, Renal Tubule, Carcinoma                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       |      |
| Renal Tubule, Adenoma                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       | X    |
| Urinary Bladder   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +                    | +     |      |
| Leiomyosarcoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       |      |
| Schwannoma Malignant, Metastatic, Tissue Nos            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       | M    |
| <b>SYSTEMIC LESIONS</b>                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                      |       |      |
| 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

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|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females<br/>(cont...)</b> |
|  | 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 | 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                            |
|  | 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 | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9                            |
|  | 4           | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 |   |   |   |   |   |   |   |   |   |   |   |   |                              |

**ALIMENTARY SYSTEM**

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

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+ .. Tissue examined microscopically  
X .. Lesion present  
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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0353        | 0662 | 0531 | 0744 | 0774 | 0777 | 0664 | 0466 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0575 | 0777 | 0666 | 0555 | 0666 | 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 |           |                      |
|   | 6644        | 6655 | 6666 | 6688 | 6699 | 6677 | 6600 | 6611 | 6622 | 6633 | 6644 | 6655 | 6666 | 6677 | 6688 | 6699 | 6600 | 6611 | 6622 | 6633 | 6644 | 6655 | 6666 | 6677 |           |                      |

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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0353        | 0662 | 0531 | 0774 | 0774 | 0776 | 0644 | 0663 | 0492 | 0632 | 0744 | 0771 | 0777 | 0777 | 0777 | 0777 | 0777 | 0574 | 0773 | 0773 | 0668 | 0551 | 0662 | 0774 |           |                      |
|   | 0063        | 0062 | 0061 | 0064 | 0064 | 0063 | 0066 | 0093 | 0034 | 0044 | 0019 | 0044 | 0044 | 0034 | 0044 | 0009 | 0044 | 0024 | 0033 | 0033 | 0008 | 0013 | 0022 | 0044 | 0044      | 0044                 |
|   | 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      | 0066                 |
|   | 64          | 65   | 66   | 68   | 69   | 70   | 71   | 72   | 74   | 75   | 77   | 78   | 79   | 80   | 81   | 83   | 84   | 86   | 87   | 88   | 88   | 89   | 90   | 91   | 92        | 93                   |

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

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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0353        | 0662 | 0531 | 0744 | 0774 | 0777 | 0646 | 0464 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0575 | 0777 | 0666 | 0565 | 0666 | 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 |           |                      |
|   | 664         | 665  | 666  | 668  | 669  | 667  | 661  | 662  | 664  | 665  | 667  | 668  | 669  | 660  | 661  | 663  | 664  | 666  | 667  | 668  | 669  | 660  | 661  | 663  |           |                      |

Sertoli Cell Tumor Benign

X

Oviduct

Uterus

Adenocarcinoma

X

Hemangiosarcoma

X

Lymphoma Malignant

Polyp Stromal

X X

X

Polyp Stromal, Multiple

X

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

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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-------------------|
|                 | 0353                              | 0662   | 0531   | 0774   | 0774   | 0776   | 0644   | 0663   | 0492   | 0632   | 0744   | 0771   | 0773   | 0774   | 0774   | 0774   | 0774   | 0572   | 0773   | 0773   | 0668   | 0561   | 0662   | 0774   |           |                   |
| 0.0W/kg(GSM)chr | 006664                            | 006665 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666 | 006666    | 006666            |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular Lymphoma Malignant                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric Lymphoma Malignant                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Subcutaneous Tissue, Fibroma Subcutaneous Tissue, Malignant Fibrous Histiocytoma                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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X .. Lesion present  
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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | 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 |
|  |             | 3 | 6 | 5 | 7 | 7 | 7 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 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 |
| 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 | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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 | 9 | 0 | 1 | 2 | 3 |   |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

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 - 59

Test Type: CHRONIC

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Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

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Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr                                     | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |  |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|--|
|   | 0353        | 0662 | 0531 | 0744 | 0774 | 0776 | 0644 | 0669 | 0434 | 0674 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0524 | 0733 | 0733 | 0600 | 0561 | 0622 | 0744 | 0774 |                      | 0774 |  |
| ANIMAL ID   | 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                 | 0066 |  |
| Lung<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |      |  |
| Nose  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |      |  |
| Trachea   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |      |  |
| <b>SPECIAL SENSES SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |  |
| Eye   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    |  |
| Harderian Gland   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    |  |
| <b>URINARY SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |  |
| Kidney<br>Lymphoma Malignant<br>Bilateral, Renal Tubule, Carcinoma<br>Renal Tubule, Adenoma | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    |  |
| Urinary Bladder<br>Leiomyosarcoma<br>Schwannoma Malignant, Metastatic, Tissue<br>Nos        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | X    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |      |  |
| <b>SYSTEMIC LESIONS</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |  |
| Multiple Organ<br>Lymphoma Malignant  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 7 | 6 | 7 | 4 | 7 | 7 | 4 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 6 |   |
|                                   | 3 | 6 | 4 | 8 | 3 | 0 | 9 | 3 | 3 | 3 | 5 | 3 | 4 | 3 | 2 | 9 |   |
| <b>FEMALE</b>                     | 9 | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 9 |   |   |
| <b>0.0W/kg(GSM)chr</b>            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |   |
|                                   | 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 |   |   |
| <b>* TOTALS</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

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

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0739        | 0668  | 0760  | 0489  | 0739  | 0777  | 0442  | 0666  | 0777  | 0666  | 0777  | 0550  | 0778  | 0778  | 0778  |          |
| ANIMAL ID   | 00694       | 00695 | 00696 | 00697 | 00698 | 00699 | 00700 | 00701 | 00702 | 00703 | 00704 | 00705 | 00706 | 00707 | 00708 | 00709    |
| 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        |
| <b>CARDIOVASCULAR SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Aorta   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90       |
| Heart   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90       |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| <b>ENDOCRINE SYSTEM</b>                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Adrenal Cortex  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90       |
| Adenoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Carcinoma   |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |
| Adrenal Medulla   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 86       |
| Pheochromocytoma Benign                                 |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       | 1        |

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Experiment Number: 20105 - 59

Test Type: CHRONIC

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Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

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

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Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 3               | 6 | 4 | 8 | 3 | 0 | 9 | 3 | 3 | 5 | 3 | 4 | 3 | 2 |   |   |
| <b>FEMALE</b>                     | 9               | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 9 |   |
| <b>0.0W/kg(GSM)chr</b>            | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>ANIMAL ID</b>                  | 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 | 1 |
|                                   | 4               | 5 | 6 | 7 | 8 | 9 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |
|                                   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

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Lab: IIT

| DAY ON TEST<br><b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>0.0W/kg(GSM)chr</b> | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS          |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
|   | 0739      | 0668 | 0740 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 |                   |
| Lymph Node, Mandibular<br>Lymphoma Malignant                                    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 90<br>1           |
| Lymph Node, Mesenteric<br>Lymphoma Malignant                                    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 90<br>3           |
| Spleen<br>Hemangiosarcoma<br>Lymphoma Malignant                                 | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 90<br>1<br>3      |
| Thymus<br>Lymphoma Malignant<br>Thymoma Benign<br>Thymoma Malignant             | +         | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 87<br>1<br>1<br>1 |

**INTEGUMENTARY SYSTEM**

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

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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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> |                        | 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 |   |
|  | <b>0.0W/kg(GSM)chr</b> | 9 | 8 | 0 | 9 | 9 | 7 | 2 | 6 | 7 | 9 | 0 | 8 | 0 | 8 | 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 |   |
|  |                        | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|  |                        | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
|  |                        | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |
| <b>* TOTALS</b>                              |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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**

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
|   | 0739        | 0668  | 0740  | 0479  | 0779  | 0472  | 0666  | 0776  | 0667  | 0777  | 0479  | 0660  | 0778  | 0470  | 0668  |          |    |
| ANIMAL ID   | 00694       | 00665 | 00666 | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679    |    |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 90 |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2  |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 90 |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A        | 89 |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A        | 88 |
| Harderian Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 90 |
| <b>URINARY SYSTEM</b>                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| 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  |
| <b>SYSTEMIC LESIONS</b>                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Multiple Organ  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 90 |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 5  |

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Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |  | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| 1.5W/kg(GSM)chr                   |  | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 8 | 3 | 4 | 4 | 4 | 4 | 1 | 6 | 4 | 0 | 4 | 4 | 2 | 3 |
| ANIMAL ID                         |  | 5 | 1 | 4 | 7 | 8 | 0 | 9 | 4 | 0 | 9 | 2 | 8 | 4 | 1 | 5 | 0 | 4 | 4 | 4 | 2 | 5 | 0 | 6 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   |  | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
|                                   |  | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 | 6 | 7 | 8 | 2 |
| <b>females (cont...)</b>          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + |
| Intestine Large, Colon Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Rectum Lymphoma Malignant Serosa, Sarcoma, Metastatic, Uterus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Intestine Small, Duodenum Adenocarcinoma Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Intestine Small, Ileum Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | A | + | + | A | + |
| Intestine Small, Jejunum Leiomyosarcoma Lymphoma Malignant Serosa, Sarcoma Stromal, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Liver Adenocarcinoma, Metastatic, Intestine Small, Duodenum Carcinoma, Metastatic, Kidney              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(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           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 |           |                      |
|   | 4           | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 8 | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 6 | 4 | 0 | 4 | 4 | 2 | 3 |           |                      |
|   | 5           | 1 | 4 | 7 | 8 | 0 | 9 | 4 | 0 | 9 | 2 | 8 | 4 | 1 | 5 | 0 | 4 | 8 | 4 | 4 | 2 | 5 | 0 | 6 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      |
|   | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |   |           |                      |
|   | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 2 |   |           |                      |

Carcinoma, Metastatic, Uncertain Primary Site  
Hepatocellular Adenoma X  
Hepatocellular Adenoma, Multiple  
Hepatocellular Carcinoma  
Histiocytic Sarcoma  
Leukemia Mononuclear  
Lymphoma Malignant  
Sarcoma Stromal, Metastatic, Uterus  
Serosa, Adenocarcinoma, Metastatic, Uterus

Mesentery  
Adenocarcinoma, Metastatic, Intestine Small, Duodenum X  
Sarcoma Stromal, Metastatic, Uterus

Pancreas  
Adenocarcinoma, Metastatic, Intestine Small, Duodenum X  
Adenocarcinoma, Metastatic, Uterus  
Carcinoma, Metastatic, Uncertain Primary Site  
Histiocytic Sarcoma  
Lymphoma Malignant  
Sarcoma Stromal, Metastatic, Uterus

Salivary Glands  
Histiocytic Sarcoma  
Lymphoma Malignant

Stomach, Forestomach  
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 - 59

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Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)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 | females<br>(cont...) |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|---|---|---|---|
|  | 5           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |           |                      |   |   |   |   |   |   |   |
|  | 4           | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 8 | 3 | 4 | 4 | 4 | 4 | 1 | 6 | 4 | 0 | 4 | 4 | 2 | 5 | 0 | 0         | 6                    | 7 | 3 | 9 |   |   |   |   |
|  | 5           | 1 | 4 | 7 | 8 | 0 | 9 | 4 | 0 | 9 | 2 | 8 | 4 | 1 | 5 | 0 | 4 | 8 | 4 | 4 | 4 | 2 | 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 |   |   |   |
|  | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 3                    | 3 | 3 | 3 | 3 |   |   |   |
|  | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3         | 6                    | 7 | 8 | 9 | 0 |   |   |   |
| Stomach, Glandular<br>Lymphoma Malignant                                   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + |   |   |   |
| <b>CARDIOVASCULAR SYSTEM</b>   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |
| Aorta<br>Lymphoma Malignant  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + |   |   |   |
| Heart<br>Lymphoma Malignant  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + |   |   |   |
| <b>ENDOCRINE SYSTEM</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |
| Adrenal Cortex<br>Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + |   | X |   |
| Adenoma<br>Lymphoma Malignant<br>Sarcoma Stromal, Metastatic, Uterus       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Pheochromocytoma Complex     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + |   | X |   |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma                                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + |   | X |
| Parathyroid Gland  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + |   | 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  
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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
|   | 0<br>5<br>4<br>5 | 0<br>7<br>4<br>1 | 0<br>7<br>4<br>4 | 0<br>7<br>3<br>7 | 0<br>7<br>3<br>8 | 0<br>7<br>4<br>0 | 0<br>7<br>3<br>9 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>0 | 0<br>7<br>3<br>9 | 0<br>6<br>8<br>2 | 0<br>7<br>3<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>1 | 0<br>7<br>4<br>5 | 0<br>7<br>4<br>0 | 0<br>7<br>4<br>4 | 0<br>4<br>6<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>0<br>2 | 0<br>7<br>4<br>5 | 0<br>7<br>4<br>0 | 0<br>6<br>2<br>6 | 0<br>7<br>4<br>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<br>0<br>8<br>1<br>6 |           |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pituitary Gland                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pars Distalis, Adenoma                                |   |   |   |   |   |   | X |   |   | X |   |   | X |   |   | X |   |   |   |   |   |   |   |  |
| Pars Distalis, Adenoma, Multiple                      |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pars Distalis, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Kidney                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bilateral, C-cell, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bilateral, C-cell, Adenoma, Multiple                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| C-cell, Adenoma                                       |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |  |

GENERAL BODY SYSTEM

|                            |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                 |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mediastinum, Paraganglioma |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland  | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ovary   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Lymphangiosarcoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sex Cord Stromal Tumor, 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  
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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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | <b>1.5W/kg(GSM)chr</b> | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 |
|  |                        | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 8 | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 6 | 4 | 0 | 4 | 4 | 2 | 5 | 0 | 6 | 4 | 2 | 6 | 3 | 9 | 3 | 9 |
| <b>ANIMAL ID</b>                             |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 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 | 8 |
|  |                        | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  |                        | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

females (cont...)

Periovarian Tissue, Sarcoma Stromal, Metastatic, Uterus

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemangioma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal               |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal, Multiple     |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Polyp Stromal       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Sarcoma             |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vagina                      |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Granular Cell Tumor Benign  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Sarcoma, Metastatic, Uterus |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Bronchial, Adenocarcinoma, Metastatic, Intestine Small, Duodenum   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Iliac, Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Basal Cell Carcinoma, Metastatic, Skin                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Mediastinal, Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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                              | 0774 | 0774 | 0773 | 0773 | 0774 | 0773 | 0774 | 0774 | 0770 | 0779 | 0774 | 0770 | 0779 | 0672 | 0778 | 0774 | 0771 | 0775 | 0770 | 0774 | 0476 | 0770 | 0776 |           |                   |
| 1.5W/kg(GSM)chr | 0081                              | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088      | 0088              |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mediastinal, Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal, Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus Capsule, Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Thymus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymoma Benign   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

INTEGUMENTARY SYSTEM

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma           |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Adenocarcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                  |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Fibroadenoma             | X |   |   |   |   | X |   |   |   |   |   | X | X | X | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
|   | 0<br>5<br>4<br>5 | 0<br>7<br>4<br>1 | 0<br>7<br>4<br>4 | 0<br>7<br>3<br>7 | 0<br>7<br>3<br>8 | 0<br>7<br>4<br>0 | 0<br>7<br>3<br>9 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>0 | 0<br>7<br>3<br>9 | 0<br>6<br>8<br>2 | 0<br>7<br>3<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>1 | 0<br>7<br>4<br>5 | 0<br>7<br>4<br>0 | 0<br>7<br>4<br>4 | 0<br>4<br>1<br>6 | 0<br>7<br>4<br>4 | 0<br>6<br>0<br>2 | 0<br>7<br>4<br>5 | 0<br>7<br>4<br>0 | 0<br>6<br>2<br>6 | 0<br>7<br>2<br>6      |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>8<br>1<br>6 |           |                      |

Fibroadenoma, Multiple

X

X

X

X

Skin

+

+

+

+

+

+

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+

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+

Basal Cell Carcinoma

X

Subcutaneous Tissue, Fibroma

X

Subcutaneous Tissue, Fibrosarcoma

Subcutaneous Tissue, Histiocytic Sarcoma

Subcutaneous Tissue, Lymphoma Malignant

### MUSCULOSKELETAL SYSTEM

Bone

+

+

+

+

+

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Skeletal Muscle

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Lymphoma Malignant

Sarcoma Stromal, Metastatic, Uterus

Diaphragm, Adenocarcinoma, Metastatic,

Intestine Small, Duodenum

X

Diaphragm, Carcinoma, Metastatic, Uncertain

Primary Site

### NERVOUS SYSTEM

Brain

+

+

+

+

+

+

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+

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Carcinoma, Metastatic, Pituitary Gland

Histiocytic Sarcoma

Lymphoma Malignant

Schwannoma Malignant, Metastatic, Trigeminal

Ganglion

Meninges, Carcinoma, Metastatic, Kidney

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)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<br>(cont...) |   |   |  |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|--|
|   | 5           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |           |                      | 6 | 7 |  |
|   | 4           | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 8 | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 6 | 4 | 0 | 4 | 4 | 2 | 5 | 0 | 4         | 3                    |   |   |  |
|   | 5           | 1 | 4 | 7 | 8 | 0 | 9 | 4 | 0 | 9 | 2 | 8 | 4 | 1 | 5 | 0 | 4 | 8 | 4 | 4 | 2 | 5 | 0 | 6 | 7 | 6 | 7         | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 |   |  |
|   | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4         | 4                    | 4 |   |  |
|   | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4         | 4                    | 2 |   |  |

Meninges, Granular Cell Tumor Benign

X

Nerve Trigeminal

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

Peripheral Nerve, Sciatic

Peripheral Nerve, Tibial

Spinal Cord, Cervical

Spinal Cord, Lumbar  
Meninges, Carcinoma, Metastatic, Kidney

Spinal Cord, Thoracic

Trigeminal Ganglion  
Schwannoma Malignant

RESPIRATORY SYSTEM

Lung

Alveolar/Bronchiolar Carcinoma

Basal Cell Carcinoma, Metastatic, Skin

Carcinoma, Metastatic, Uncertain Primary Site

Histiocytic Sarcoma

Lymphoma Malignant

Sarcoma Stromal, Metastatic, Uterus

Nose

\* .. 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 - 59

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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

Species/Strain: RATS/HSD

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 | females<br>(cont...) |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 |   |                      |
| 1.5W/kg(GSM)chr                   | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 8 | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 6 | 4 | 0 | 4 | 4 | 2 | 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 |                      |
|                                   | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |                      |
|                                   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |                      |

Histiocytic Sarcoma

Trachea +

SPECIAL SENSES SYSTEM

Eye + + + + + + + + + + + + + + + A + + + + + A +  
Retrolubar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion

Harderian Gland +  
Lymphoma Malignant

URINARY SYSTEM

Kidney +  
Adenocarcinoma, Metastatic, Intestine Small, Duodenum X  
Carcinoma, Metastatic, Uncertain Primary Site  
Histiocytic Sarcoma  
Lymphoma Malignant  
Sarcoma Stromal, Metastatic, Uterus  
Bilateral, Renal Tubule, Carcinoma  
Bilateral, Renal Tubule, Carcinoma, Multiple  
Renal Tubule, Adenoma

Urinary Bladder + A +  
Lymphoma Malignant  
Urothelium, 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 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 |
|  | ANIMAL ID   | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 |
|  |             | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

females (cont...)

**SYSTEMIC LESIONS**

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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Experiment Number: 20105 - 59  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Cell Phone Radiation: GSM  
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Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 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<br>FEMALE |                 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7                | 3 | 7 |
|                                      | 1.5W/kg(GSM)chr | 1 | 2 | 4 | 9 | 5 | 9 | 3 | 9 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 7 | 4 | 1 | 3                | 3 | 3 |
|                                      |                 | 6 | 2 | 0 | 0 | 7 | 9 | 9 | 3 | 8 | 2 | 4 | 8 | 7 | 8 | 0 | 7 | 5 | 1 | 6 | 1 | 3 | 7                | 1 | 2 |
|                                      | 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 |
|                                      |                 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8                | 8 | 8 |
|                                      |                 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6                | 7 | 7 |
|                                      |                 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6                | 1 | 8 |
|                                      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females</b>   |   |   |
|                                      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>(cont...)</b> |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | A | + | + |
| Intestine Large, Colon<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X | + | + | + | + | + |
| Intestine Large, Rectum<br>Lymphoma Malignant<br>Serosa, Sarcoma, Metastatic, Uterus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma<br>Lymphoma Malignant   | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Ileum<br>Lymphoma Malignant  | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Jejunum<br>Leiomyosarcoma<br>Lymphoma Malignant<br>Serosa, Sarcoma Stromal, Metastatic, Uterus | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Liver<br>Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum<br>Carcinoma, Metastatic, Kidney              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                 | 0716                              | 0724 | 0749 | 0759 | 0799 | 0743 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 |           |                   |
| 1.5W/kg(GSM)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         |                   |
|                 | 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         |                   |
|                 | 4                                 | 4    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    |           |                   |
|                 | 3                                 | 4    | 5    | 6    | 7    | 8    | 1    | 2    | 3    | 4    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 8    | 9    | 1    |           |                   |

Carcinoma, Metastatic, Uncertain Primary Site  
 Hepatocellular Adenoma  
 Hepatocellular Adenoma, Multiple  
 Hepatocellular Carcinoma  
 Histiocytic Sarcoma  
 Leukemia Mononuclear  
 Lymphoma Malignant  
 Sarcoma Stromal, Metastatic, Uterus  
 Serosa, Adenocarcinoma, Metastatic, Uterus

X

X

X

X

X

Mesentery  
 Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
 Sarcoma Stromal, Metastatic, Uterus

+

+

X

Pancreas  
 Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
 Adenocarcinoma, Metastatic, Uterus  
 Carcinoma, Metastatic, Uncertain Primary Site  
 Histiocytic Sarcoma  
 Lymphoma Malignant  
 Sarcoma Stromal, Metastatic, Uterus

+ +

X

X

X

X

X

Salivary Glands  
 Histiocytic Sarcoma  
 Lymphoma Malignant

+ M + +

X

X

Stomach, Forestomach  
 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 - 59

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(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 |                      |
|  | 7           | 6 | 7 | 6 | 6 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 3 |                      |
| ANIMAL ID  | 1           | 2 | 4 | 9 | 5 | 9 | 3 | 9 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 7 | 4 | 1 | 3 | 3 | 3 | 3 | 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                    |
|  | 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                    |
|  | 4           | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 1                    |
|  | 3           | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 8 | 9 | 0 | 1 | 8                    |
| Stomach, Glandular<br>Lymphoma Malignant                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | X | + | A | + | + |                      |
| <b>CARDIOVASCULAR SYSTEM</b>                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Aorta<br>Lymphoma Malignant                              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |
| Heart<br>Lymphoma Malignant                              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |
| <b>ENDOCRINE SYSTEM</b>                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Adrenal Cortex   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |
| Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Adenoma  |             |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X                    |
| Lymphoma Malignant                                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |                      |
| Sarcoma Stromal, Metastatic, Uterus                      |             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Adrenal Medulla  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |
| Pheochromocytoma Benign                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Pheochromocytoma Complex                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Islets, Pancreatic                                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |
| Adenoma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Carcinoma  |             |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Parathyroid 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|   | 0716        | 0724  | 0730  | 0736  | 0742  | 0748  | 0754  | 0760  | 0766  | 0772  | 0778  | 0784  | 0790  | 0796  | 0802  | 0808  | 0814  | 0820  | 0826  | 0832  | 0838  | 0844  | 0850  | 0856  |                      |
| ANIMAL ID   | 00843       | 00844 | 00845 | 00846 | 00847 | 00848 | 00849 | 00850 | 00851 | 00852 | 00853 | 00854 | 00855 | 00856 | 00857 | 00858 | 00859 | 00860 | 00861 | 00862 | 00863 | 00864 | 00865 | 00866 |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Adenoma                                | X |   |   |   |   |   |   |   |   |   | X | X |   | X |   |   | X | X |   |   | X | X |   |   |
| Pars Distalis, Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Carcinoma                              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Kidney                         |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, C-cell, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Bilateral, C-cell, Adenoma, Multiple                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Adenoma                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|                            |   |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                 | + |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mediastinum, Paraganglioma |   |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland  | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Ovary   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphangiosarcoma                                     |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |
| Sex Cord Stromal Tumor, 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|   | 0716        | 0724  | 0730  | 0736  | 0742  | 0748  | 0754  | 0760  | 0766  | 0772  | 0778  | 0784  | 0790  | 0796  | 0802  | 0808  | 0814  | 0820  | 0826  | 0832  | 0838  | 0844  | 0850  | 0856  |                      |
| ANIMAL ID   | 00843       | 00844 | 00845 | 00846 | 00847 | 00848 | 00849 | 00850 | 00851 | 00852 | 00853 | 00854 | 00855 | 00856 | 00857 | 00858 | 00859 | 00860 | 00861 | 00862 | 00863 | 00864 | 00865 | 00866 |                      |

Mediastinal, Lymphoma Malignant  
Renal, Lymphoma Malignant

X  
X

Lymph Node, Mandibular  
Histiocytic Sarcoma  
Lymphoma Malignant

+ M + +  
X  
X

Lymph Node, Mesenteric  
Adenocarcinoma, Metastatic, Intestine Small,  
Duodenum  
Lymphoma Malignant

+  
X X

Spleen  
Lymphoma Malignant  
Sarcoma Stromal, Metastatic, Uterus  
Capsule, Adenocarcinoma, Metastatic,  
Intestine Small, Duodenum

+  
X X  
X

Thymus  
Lymphoma Malignant  
Thymoma Benign  
Thymoma Malignant

+  
X X  
X

INTEGUMENTARY SYSTEM

Mammary Gland  
Adenocarcinoma  
Adenocarcinoma, Multiple  
Adenoma  
Fibroadenoma

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|   | 0716        | 0722  | 0700  | 0706  | 0706  | 0706  | 0707  | 0704  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  |                      |
| ANIMAL ID   | 00843       | 00844 | 00844 | 00844 | 00844 | 00845 | 00846 | 00847 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848 | 00848                |

Fibroadenoma, Multiple

X X X X X X X X

Skin

+ +

Basal Cell Carcinoma

Subcutaneous Tissue, Fibroma

X

Subcutaneous Tissue, Fibrosarcoma

Subcutaneous Tissue, Histiocytic Sarcoma

X

Subcutaneous Tissue, Lymphoma Malignant

X

**MUSCULOSKELETAL SYSTEM**

Bone

+ +

Skeletal Muscle

+ +

Lymphoma Malignant

X

Sarcoma Stromal, Metastatic, Uterus

X

Diaphragm, Adenocarcinoma, Metastatic,

Intestine Small, Duodenum

Diaphragm, Carcinoma, Metastatic, Uncertain

Primary Site

**NERVOUS SYSTEM**

Brain

+ +

Carcinoma, Metastatic, Pituitary Gland

X

Histiocytic Sarcoma

X

Lymphoma Malignant

X

Schwannoma Malignant, Metastatic, Trigeminal

Ganglion

Meninges, Carcinoma, Metastatic, Kidney

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 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0716        | 0724 | 0740 | 0769 | 0766 | 0766 | 0774 | 0744 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 | 0774 |           |                      |
|   | 0           | 0    | 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           | 6    | 7    | 6    | 6    | 6    | 7    | 4    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7         | 7                    |
|   | 1           | 2    | 4    | 9    | 5    | 9    | 3    | 9    | 3    | 3    | 4    | 3    | 3    | 3    | 4    | 3    | 4    | 4    | 4    | 7    | 4    | 1    | 3    | 3    | 3         | 3                    |
|   | 6           | 2    | 0    | 0    | 7    | 9    | 9    | 3    | 8    | 2    | 4    | 8    | 7    | 8    | 0    | 7    | 5    | 1    | 6    | 1    | 3    | 7    | 1    | 2    | 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    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    |
|   | 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                    |
|   | 4           | 4    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7         |                      |
|   | 3           | 4    | 5    | 6    | 7    | 8    | 1    | 2    | 3    | 4    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 6    | 8    | 9    | 1         |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Meninges, Granular Cell Tumor Benign                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nerve Trigeminal Schwannoma Malignant, Metastatic, Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + |  |
| Peripheral Nerve, Sciatic  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Peripheral Nerve, Tibial   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Cervical  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Lumbar<br>Meninges, Carcinoma, Metastatic, Kidney         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Thoracic  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trigeminal Ganglion Schwannoma Malignant                               | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | I | + | + | I | M | I | + |  |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Basal Cell Carcinoma, Metastatic, Skin Carcinoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Histiocytic Sarcoma  |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus  |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST   | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |      |
|---|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|
|   | 0716                              | 0724 | 0749 | 0759 | 0769 | 0774 | 0783 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 | 0793 |           |                   | 0793 |
| 1.5W/kg(GSM)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         | 00843             |      |
| Histiocytic Sarcoma   |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Trachea   | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                   |      |
| <b>SPECIAL SENSES SYSTEM</b>  |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Eye   | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                   |      |
| Retrolbulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Harderian Gland   | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                   |      |
| Lymphoma Malignant  |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| <b>URINARY SYSTEM</b>   |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Kidney  | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                   |      |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum               |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Carcinoma, Metastatic, Uncertain Primary Site                       |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Histiocytic Sarcoma   |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Lymphoma Malignant  |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Sarcoma Stromal, Metastatic, Uterus                                 |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Bilateral, Renal Tubule, Carcinoma                                  |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Bilateral, Renal Tubule, Carcinoma, Multiple                        |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Renal Tubule, Adenoma   |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Urinary Bladder   | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                   |      |
| Lymphoma Malignant  |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |
| Urothelium, Carcinoma   |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                   |      |

\* .. 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 - 59

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Cell Phone Radiation: GSM

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Lab: IIT

|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 07 | 06 | 07 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 03 | 07 | females<br>(cont...) |
|   | ANIMAL ID   | 01 | 02 | 04 | 09 | 05 | 09 | 03 | 09 | 03 | 03 | 04 | 03 | 03 | 04 | 03 | 04 | 04 | 07 | 04 | 01 | 03 | 03 | 03 | 03 |                      |
|   |             | 6  | 2  | 0  | 0  | 7  | 9  | 9  | 3  | 8  | 2  | 4  | 8  | 7  | 8  | 0  | 7  | 5  | 1  | 6  | 1  | 3  | 7  | 1  | 2  |                      |

SYSTEMIC LESIONS

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0123  | 0774  | 0773  | 0773  | 0669  | 0669  | 0744  | 0744  | 0773  | 0773  | 0665  | 0744  | 0744  | 0773  | 0773  | 0574  | 0744  | 0773  | 0574  | 0669  | 0669  | 0449  | 0669  | 0449  |
|  | ANIMAL ID   | 00872 | 00883 | 00884 | 00885 | 00886 | 00887 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 |

females (cont...)

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + |   |   |
| Intestine Large, Colon<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Lymphoma Malignant<br>Serosa, Sarcoma, Metastatic, Uterus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |   |   |
| Intestine Small, Ileum<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |   |   |
| Intestine Small, Jejunum<br>Leiomyosarcoma<br>Lymphoma Malignant<br>Serosa, Sarcoma Stromal, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + |   |   |
| Liver<br>Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum<br>Carcinoma, Metastatic, Kidney              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |      |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|
|                 | 0738                              | 0123 | 0739 | 0774 | 0778 | 0779 | 0669 | 0666 | 0774 | 0774 | 0777 | 0777 | 0666 | 0777 | 0777 | 0555 | 0777 | 0777 | 0555 | 0777 | 0444 | 0777 | 0555 | 0666 |           |                   | 0444 |
| 1.5W/kg(GSM)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         | 0087              |      |
|                 | 0                                 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 8888              |      |
|                 | 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         | 7777              |      |
|                 | 2                                 | 3    | 4    | 5    | 6    | 8    | 9    | 0    | 1    | 4    | 5    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 6    | 7    | 9    | 0    | 0    | 0         | 2345              |      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Hepatocellular Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Hepatocellular Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Hepatocellular Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Histiocytic Sarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Mononuclear                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Serosa, Adenocarcinoma, Metastatic, Uterus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |  |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Adenocarcinoma, Metastatic, Uterus                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Histiocytic Sarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Salivary Glands                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Histiocytic Sarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Stomach, Forestomach                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                 | 0738                              | 0123 | 0739 | 0774 | 0773 | 0779 | 0669 | 0666 | 0774 | 0746 | 0773 | 0773 | 0771 | 0665 | 0774 | 0774 | 0774 | 0774 | 0574 | 0774 | 0478 | 0773 | 0579 | 0669 |           |                   |
| 1.5W/kg(GSM)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    | 00872     |                   |

Stomach, Glandular  
Lymphoma Malignant

+ +

**CARDIOVASCULAR SYSTEM**

Aorta  
Lymphoma Malignant

+ +

Heart  
Lymphoma Malignant

+ +

**ENDOCRINE SYSTEM**

Adrenal Cortex  
Adenocarcinoma, Metastatic, Intestine Small,  
Duodenum  
Adenoma  
Lymphoma Malignant  
Sarcoma Stromal, Metastatic, Uterus

+  
X X X

Adrenal Medulla  
Pheochromocytoma Benign  
Pheochromocytoma Complex

+  
X

Islets, Pancreatic  
Adenoma  
Carcinoma

+  
X X

Parathyroid Gland

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

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

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| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                 | 0738                              | 0123 | 0739 | 0741 | 0778 | 0779 | 0669 | 0666 | 0774 | 0774 | 0777 | 0771 | 0665 | 0774 | 0774 | 0774 | 0774 | 0574 | 0774 | 0478 | 0773 | 0599 | 0699 | 0499 |           |                   |
| 1.5W/kg(GSM)chr | 008                               | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 008  | 0082      |                   |

|   |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
|---|---|--|---|---|--|--|---|---|--|--|---|---|---|--|--|---|---|---|--|---|---|---|---|---|
| Pituitary Gland                                       | + |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| Lymphoma Malignant                                    |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   | X |   |   |   |
| Pars Distalis, Adenoma                                | X |  |   | X |  |  |   |   |  |  | X | X | X |  |  | X | X | X |  | X |   | X | X | X |
| Pars Distalis, Adenoma, Multiple                      |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| Pars Distalis, Carcinoma                              |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| Thyroid Gland   | + |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| Carcinoma, Metastatic, Kidney                         |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| Bilateral, C-cell, Adenoma                            |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| Bilateral, C-cell, Adenoma, Multiple                  |   |  |   |   |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |
| C-cell, Adenoma                                       |   |  | X |   |  |  | X | X |  |  |   |   |   |  |  |   |   |   |  |   |   |   |   |   |

GENERAL BODY SYSTEM

|                            |   |  |  |  |  |  |  |  |  |  |  |  |   |  |   |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                 | + |  |  |  |  |  |  |  |  |  |  |  |   |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Mediastinum, Paraganglioma |   |  |  |  |  |  |  |  |  |  |  |  | + |  | + |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland  | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                    | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphangiosarcoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sex Cord Stromal Tumor, Benign                        |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| DAY ON TEST<br><b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>1.5W/kg(GSM)chr</b> | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|   | 0738      | 0123 | 0073 | 0774 | 0775 | 0776 | 0666 | 0667 | 0774 | 0774 | 0777 | 0777 | 0666 | 0777 | 0777 | 0666 | 0777 | 0777 | 0777 | 0557 | 0774 | 0777 | 0556 | 0664 |                      |
|   | 0087      | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 |                      |

Periovarian Tissue, Sarcoma Stromal, Metastatic, Uterus

|                         |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Uterus                  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adenocarcinoma          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hemangioma              |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymphoma Malignant      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Polyp Stromal           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Polyp Stromal, Multiple |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sarcoma Stromal         |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cervix, Polyp Stromal   | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cervix, Sarcoma         |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Vagina  
 Granular Cell Tumor Benign  
 Sarcoma, Metastatic, Uterus

### HEMATOPOIETIC SYSTEM

|  |   |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Bone Marrow  | + |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Histiocytic Sarcoma  |   |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Lymphoma Malignant   |   |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Lymph Node   |   |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  | + |
| Bronchial, Adenocarcinoma, Metastatic, Intestine Small, Duodenum   |   |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Iliac, Lymphoma Malignant  |   |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Lumbar, Basal Cell Carcinoma, Metastatic, Skin                     |   |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Mediastinal, Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |

\* .. 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 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

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Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0123  | 0731  | 0778  | 0779  | 0669  | 0666  | 0774  | 0776  | 0777  | 0666  | 0777  | 0777  | 0666  | 0777  | 0777  | 0557  | 0774  | 0777  | 0556  | 0775  | 0666  | 0444  | 0777  | 0556  | 0666  | 0444  |
|  | ANIMAL ID   | 00872 | 00884 | 00885 | 00887 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 | 00888 |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

females (cont...)

Mediastinal, Lymphoma Malignant  
Renal, Lymphoma Malignant

Lymph Node, Mandibular  
Histiocytic Sarcoma  
Lymphoma Malignant

Lymph Node, Mesenteric  
Adenocarcinoma, Metastatic, Intestine Small,  
Duodenum  
Lymphoma Malignant

Spleen  
Lymphoma Malignant  
Sarcoma Stromal, Metastatic, Uterus  
Capsule, Adenocarcinoma, Metastatic,  
Intestine Small, Duodenum

Thymus  
Lymphoma Malignant  
Thymoma Benign  
Thymoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland  
Adenocarcinoma  
Adenocarcinoma, Multiple  
Adenoma  
Fibroadenoma

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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| DAY ON TEST<br>HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |
|--|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
|  | 0738      | 0733 | 0739 | 0774 | 0773 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 |                      | 0779 |
|  | 0         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                    |      |
|  | 8         | 3    | 9    | 1    | 8    | 9    | 9    | 6    | 4    | 4    | 8    | 9    | 1    | 0    | 5    | 4    | 4    | 4    | 1    | 5    | 1    | 0    | 7    | 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                    |      |
|  | 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                    |      |
|  | 7         | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 8    | 8    | 8    | 8    | 8    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9                    |      |
|  | 2         | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 4    | 5    | 7    | 8    | 8    | 8    | 8    | 9    | 1    | 2    | 3    | 4    | 6    | 7    |                      |      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fibroadenoma, Multiple                   |   |   | X |   |   |   |   |   | X |   | X | X |   |   | X |   | X | X | X | X | X |   |   |   |   |
| Skin                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma        |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### MUSCULOSKELETAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Diaphragm, Adenocarcinoma, Metastatic,<br>Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Diaphragm, Carcinoma, Metastatic, Uncertain<br>Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |

### NERVOUS SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Histiocytic Sarcoma                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal<br>Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Meninges, Carcinoma, Metastatic, Kidney                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0738        | 0123 | 0739 | 0741 | 0778 | 0779 | 0669 | 0666 | 0774 | 0744 | 0773 | 0771 | 0665 | 0774 | 0774 | 0664 | 0774 | 0754 | 0774 | 0478 | 0753 | 0669 | 0669 | 0479 |           |                      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 008872    |                      |

Meninges, Granular Cell Tumor Benign

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nerve Trigeminal Schwannoma Malignant, Metastatic, Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord, Lumbar<br>Meninges, Carcinoma, Metastatic, Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trigeminal Ganglion Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung<br>Alveolar/Bronchiolar Carcinoma<br>Basal Cell Carcinoma, Metastatic, Skin<br>Carcinoma, Metastatic, Uncertain Primary Site<br>Histiocytic Sarcoma<br>Lymphoma Malignant<br>Sarcoma Stromal, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                 | 0738                              | 0123 | 0739 | 0741 | 0773 | 0779 | 0699 | 0696 | 0744 | 0746 | 0773 | 0771 | 0675 | 0774 | 0774 | 0774 | 0754 | 0774 | 0744 | 0748 | 0773 | 0759 | 0699 | 0749 |           |                   |
| 1.5W/kg(GSM)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    | 0087      |                   |
|                 | 0                                 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0088      |                   |
|                 | 7                                 | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 0089      |                   |
|                 | 2                                 | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 1    | 4    | 5    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 6    | 7    | 9    | 0    | 0    | 0090      |                   |

Histiocytic Sarcoma

Trachea

SPECIAL SENSES SYSTEM

Eye

Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion

Harderian Gland

Lymphoma Malignant

URINARY SYSTEM

Kidney

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

Carcinoma, Metastatic, Uncertain Primary Site

Histiocytic Sarcoma

Lymphoma Malignant

Sarcoma Stromal, Metastatic, Uterus

Bilateral, Renal Tubule, Carcinoma

Bilateral, Renal Tubule, Carcinoma, Multiple

Renal Tubule, Adenoma

Urinary Bladder

Lymphoma Malignant

Urothelium, 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0738 | 0123 | 0771 | 0778 | 0779 | 0669 | 0666 | 0774 | 0776 | 0773 | 0771 | 0665 | 0774 | 0774 | 0774 | 0574 | 0774 | 0478 | 0773 | 0579 | 0669 | 0479 |      |
|  | ANIMAL ID   | 0087 | 0083 | 0084 | 0085 | 0086 | 0088 | 0089 | 0080 | 0081 | 0084 | 0085 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0096 | 0097 | 0099 | 0090 |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

females  
(cont...)

**SYSTEMIC LESIONS**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                        | <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 7 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 6 |
| <b>1.5W/kg(GSM)chr</b> | 2  | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 | 9 | 9 |
| <b>ANIMAL ID</b>       | 2  | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 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 |
|                        | 9  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                        | 0  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 |
|                        | 4  | 5 | 7 | 8 | 9 | 0 | 1 | 1 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |
|                        | <b>* TOTALS</b>                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 90 |
| Intestine Large, Cecum<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 83 | 1  |
| Intestine Large, Colon<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 88 | 2  |
| Intestine Large, Rectum<br>Lymphoma Malignant<br>Serosa, Sarcoma, Metastatic, Uterus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 | 1  |
| Intestine Small, Duodenum<br>Adenocarcinoma<br>Lymphoma Malignant   | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 85 | 1  |
| Intestine Small, Ileum<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 82 | 1  |
| Intestine Small, Jejunum<br>Leiomyosarcoma<br>Lymphoma Malignant<br>Serosa, Sarcoma Stromal, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | 82 | 1  |
| Liver<br>Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum<br>Carcinoma, Metastatic, Kidney              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | * TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|   | 7 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 6 | 6 |          |
| <b>HARLAN SPRAGUE DAWLEY RATS</b>                     | 2 | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 | 9 |   |          |
| <b>FEMALE</b>   | 2 | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 9 | 9 |   |          |
| <b>1.5W/kg(GSM)chr</b>                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| 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 |          |
|   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |          |
|   | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |   |          |
|   | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 0 |   |          |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Hepatocellular Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Hepatocellular Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Hepatocellular Carcinoma                              |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 1        |
| Histiocytic Sarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Leukemia Mononuclear                                  |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3        |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Serosa, Adenocarcinoma, Metastatic, Uterus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Mesentery   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   | 5        |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | 90       |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Adenocarcinoma, Metastatic, Uterus                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Histiocytic Sarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Salivary Glands                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | 89       |
| Histiocytic Sarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Stomach, Forestomach                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | 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  
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Experiment Number: 20105 - 59

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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  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
|  | 7 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 5 | 6 | 6  |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE                     | 2 | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 | 9 | 9 | 9  |
|  | 2 | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 9 | 9 | 9 | 9  |
| 1.5W/kg(GSM)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  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9  |
|  | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0  |
| <b>* TOTALS</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Stomach, Glandular                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| <b>CARDIOVASCULAR SYSTEM</b>                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Aorta  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Heart  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| <b>ENDOCRINE SYSTEM</b>                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Adrenal Cortex   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Sarcoma Stromal, Metastatic, Uterus                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adrenal Medulla  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pheochromocytoma Benign                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Pheochromocytoma Complex                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Islets, Pancreatic                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 4  |
| Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Parathyroid Gland  | + | I | M | + | + | + | + | + | + | M | + | M | + | + | + | + | + | 79 |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 6 |                 |           |  |           |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b>          | 2 | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 | 9 |                 |           |  |           |
|   | 2 | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 9 | 9 |                 |           |  |           |
| <b>1.5W/kg(GSM)chr</b>                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |           |  |           |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |           |  |           |
|   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                 |           |  |           |
|   | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |                 |           |  |           |
|   | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 |   |                 |           |  |           |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |           |  |           |
| Pituitary Gland                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |           |  | <b>90</b> |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>2</b>  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| Pars Distalis, Adenoma                                |   | X | X | X |   | X |   |   | X |   |   |   |   |   |   |   |                 |           |  | <b>30</b> |
| Pars Distalis, Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>3</b>  |
| Pars Distalis, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| Thyroid Gland   | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |           |  | <b>88</b> |
| Carcinoma, Metastatic, Kidney                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>2</b>  |
| Bilateral, C-cell, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| Bilateral, C-cell, Adenoma, Multiple                  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| C-cell, Adenoma                                       |   |   |   |   |   | X |   |   |   | X |   |   |   | X |   |   |                 |           |  | <b>9</b>  |
| <b>GENERAL BODY SYSTEM</b>                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  |           |
| Tissue NOS  |   |   | + |   | + |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>10</b> |
| Mediastinum, Paraganglioma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| <b>GENITAL SYSTEM</b>                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  |           |
| Clitoral Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |           |  | <b>85</b> |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| Ovary   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |           |  | <b>90</b> |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| Lymphangiosarcoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>2</b>  |
| Sex Cord Stromal Tumor, Benign                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  | <b>1</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> |                        | 7 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 |   |
|  |                        | 2 | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 |   |
|  |                        | 2 | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 9 |   |
|  | <b>1.5W/kg(GSM)chr</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |   |
|  |                        | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |
|  |                        | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 |   |
|  |                        | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 |   |
| <b>* TOTALS</b>                              |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Periovarian Tissue, Sarcoma Stromal, Metastatic, Uterus

1

Uterus

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

89

Adenocarcinoma

1

Hemangioma

1

Lymphoma Malignant

2

Polyp Stromal

X

11

Polyp Stromal, Multiple

6

Sarcoma Stromal

1

Cervix, Polyp Stromal

1

Cervix, Sarcoma

1

Vagina

+

3

Granular Cell Tumor Benign

1

Sarcoma, Metastatic, Uterus

1

**HEMATOPOIETIC SYSTEM**

Bone Marrow

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

90

Histiocytic Sarcoma

1

Lymphoma Malignant

1

Lymph Node

+

14

Bronchial, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

1

Iliac, Lymphoma Malignant

1

Lumbar, Basal Cell Carcinoma, Metastatic, Skin

1

Mediastinal, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

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 - 59

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Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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               | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 5 | 6 | 6         |
| <b>HARLAN SPRAGUE DAWLEY RATS</b>                              | 2               | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 | 9 | 9 | 9         |
|  | 2               | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 9 | 9 | 9 | 9         |
| <b>FEMALE</b>  | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |
|  | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |
| <b>1.5W/kg(GSM)chr</b>   | 9               | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9         |
|  | 0               | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2         |
| ANIMAL ID  | 4               | 5 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 0 | 0         |
|  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Mediastinal, Lymphoma Malignant                                |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Renal, Lymphoma Malignant                                      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymph Node, Mandibular   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Histiocytic Sarcoma  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>89</b> |
| Lymphoma Malignant   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymph Node, Mesenteric   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum          |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
| Lymphoma Malignant   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Spleen   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
| Sarcoma Stromal, Metastatic, Uterus                            |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Capsule, Adenocarcinoma, Metastatic, Intestine Small, Duodenum |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Thymus   | M               | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>86</b> |
| Thymoma Benign   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Thymoma Malignant  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
|  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>INTEGUMENTARY SYSTEM</b>                                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Mammary Gland  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Adenocarcinoma   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>89</b> |
| Adenocarcinoma, Multiple                                       |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>  |
| Adenoma  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Fibroadenoma   |                 | X |   | X |   | X |   | X | X | X | X | X | X | X | X |   |   |           |
|  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>  |
|  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>43</b> |

\* .. 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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Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 6 |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE | 2 | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 | 9 |
|                                      | 2 | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 9 | 9 |
| ANIMAL ID                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1.5W/kg(GSM)chr                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 |
| <b>* TOTALS</b>                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                        |   |  |  |  |   |  |   |  |  |  |  |  |  |  |   |  |           |
|------------------------|---|--|--|--|---|--|---|--|--|--|--|--|--|--|---|--|-----------|
| Fibroadenoma, Multiple | X |  |  |  | X |  | X |  |  |  |  |  |  |  | X |  | <b>25</b> |
|------------------------|---|--|--|--|---|--|---|--|--|--|--|--|--|--|---|--|-----------|

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Basal Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Fibroma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Subcutaneous Tissue, Fibrosarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

MUSCULOSKELETAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Sarcoma Stromal, Metastatic, Uterus                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Diaphragm, Adenocarcinoma, Metastatic,<br>Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Diaphragm, Carcinoma, Metastatic, Uncertain<br>Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

NERVOUS SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Carcinoma, Metastatic, Pituitary Gland                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Histiocytic Sarcoma                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Schwannoma Malignant, Metastatic, Trigeminal<br>Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Meninges, Carcinoma, Metastatic, Kidney                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 |                 |           |  |
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b>              | 2 | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 |                 |           |  |
| <b>1.5W/kg(GSM)chr</b>                                | 2 | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 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 |                 |           |  |
|   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                 |           |  |
|   | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |                 |           |  |
|   | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 |                 |           |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |           |  |
| Meninges, Granular Cell Tumor Benign                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| Nerve Trigeminal                                      | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + |                 | <b>88</b> |  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| Peripheral Nerve, Sciatic                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>90</b> |  |
| Peripheral Nerve, Tibial                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>90</b> |  |
| Spinal Cord, Cervical                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>90</b> |  |
| Spinal Cord, Lumbar                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>90</b> |  |
| Meninges, Carcinoma, Metastatic, Kidney               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| Spinal Cord, Thoracic                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>90</b> |  |
| Trigeminal Ganglion                                   | + | M | M | + | + | + | + | + | + | + | + | + | + | + | I |                 | <b>79</b> |  |
| Schwannoma Malignant                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| <b>RESPIRATORY SYSTEM</b>                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |  |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>90</b> |  |
| Alveolar/Bronchiolar Carcinoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| Basal Cell Carcinoma, Metastatic, Skin                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |           |  |
| Histiocytic Sarcoma                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| Lymphoma Malignant                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |           |  |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |           |  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>90</b> |  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6         |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b>                          | 2 | 7 | 5 | 4 | 4 | 3 | 9 | 4 | 9 | 3 | 4 | 3 | 3 | 8 | 9 | 9 | 9 | 9         |
|   | 2 | 8 | 4 | 0 | 1 | 7 | 3 | 4 | 6 | 9 | 0 | 1 | 1 | 4 | 9 | 9 | 9 | 9         |
| <b>1.5W/kg(GSM)chr</b>  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9         |
|   | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2         |
|   | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0         |
| <b>* TOTALS</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Histiocytic Sarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| <b>90</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| <b>SPECIAL SENSES SYSTEM</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Eye   | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |   |   |           |
| Retrobulbar, Schwannoma Malignant,<br>Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>85</b> |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Harderian Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>URINARY SYSTEM</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Kidney  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>90</b> |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Carcinoma, Metastatic, Uncertain Primary Site                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Histiocytic Sarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Sarcoma Stromal, Metastatic, Uterus                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Bilateral, Renal Tubule, Carcinoma                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Bilateral, Renal Tubule, Carcinoma, Multiple                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Renal Tubule, Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Urinary Bladder   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>88</b> |
| Urothelium, Carcinoma   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0722 | 0578 | 0654 | 0744 | 0741 | 0737 | 0493 | 0744 | 0696 | 0773 | 0543 | 0631 | 0558 | 0669 |   |  |
|  | ANIMAL ID   | 0094 | 0095 | 0097 | 0098 | 0099 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 |   |  |
|  |             | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0 |  |
|  |             | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0 |  |
| <b>* TOTALS</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |

**SYSTEMIC LESIONS**

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

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+ .. Tissue examined microscopically  
X .. Lesion present  
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Experiment Number: 20105 - 59

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)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<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|   |             | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |           |                      |
|   | 8           | 4 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 4 | 3 | 4 | 6 | 7 | 9 | 2 | 4 | 3 | 9 |   |           |                      |
|   | 9           | 4 | 9 | 4 | 7 | 7 | 6 | 9 | 9 | 4 | 0 | 8 | 7 | 9 | 0 | 5 | 0 | 4 | 1 | 2 | 1 | 5 | 8 | 5 | 3 | 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 |   |           |                      |
|   | 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 |   |           |                      |
|   | 0           | 0 | 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           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |           |                      |
|   | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 8 | 0 | 1 | 2 | 3 |   |           |                      |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | A | + | A | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |   |
| Lymphoma Malignant<br>Serosa, Adenocarcinoma, Metastatic,<br>Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Intestine Large, Colon  | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum   | + | + | + | + | + | + | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + |   |
| Intestine Small, Ileum  | + | + | A | + | + | + | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + |   |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | A | + | A | + | + | + |   |
| Peyer's Patch, Lymphoma Malignant                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma, Metastatic, Pancreas                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Hepatocellular Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Leukemia Mononuclear  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery   |   |   |   |   |   |   | + |   |   |   |   | + |   |   |   |   |   |   |   |   | + | + | + |   |   |   |
| Adenocarcinoma, Metastatic, Pancreas                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Schwannoma Malignant, Metastatic, Ovary                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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A .. Autolysis precludes evaluation  
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Experiment Number: 20105 - 59

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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Date Report Requested: 01/02/2018

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0489        | 0744 | 0739 | 0744 | 0727 | 0777 | 0676 | 0747 | 0433 | 0733 | 0742 | 0722 | 0732 | 0723 | 0743 | 0744 | 0744 | 0744 | 0663 | 0744 | 0666 | 0667 | 0669 | 0668 |           |                      |
|   | 0100        | 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                 |
|   | 0026        | 0072 | 0028 | 0029 | 0030 | 0031 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033      | 0033                 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Acinus, Adenocarcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myoepithelioma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parotid Gland, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tooth  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endocardium, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epicardium, Paraganglioma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myocardium, 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                      |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0<br>4 | 0<br>7 | 0<br>7 | 0<br>7 | 0<br>7 | 0<br>7 | 0<br>6 | 0<br>7 | 0<br>4 | 0<br>7 | 0<br>7 | 0<br>7 | 0<br>7 | 0<br>7 | 0<br>7 | 0<br>6 | 0<br>7 | 0<br>6 | 0<br>6 | 0<br>6 | 0<br>6 | 0<br>7 | 0<br>7 | females<br>(cont...) |
|   | ANIMAL ID   | 8<br>9 | 4<br>4 | 3<br>9 | 4<br>4 | 2<br>7 | 3<br>7 | 3<br>6 | 3<br>9 | 3<br>9 | 2<br>4 | 2<br>0 | 3<br>8 | 2<br>7 | 3<br>9 | 4<br>0 | 4<br>5 | 4<br>0 | 3<br>4 | 6<br>1 | 6<br>2 | 7<br>1 | 9<br>5 | 2<br>8 |                      |

ENDOCRINE SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Pheochromocytoma Benign              |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Complex             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Pituitary Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Adenoma               |   |   | X | X | X | X |   | X |   | X |   |   | X |   |   |   |   | X | X |   | X | X |   |   |
| Pars Distalis, Adenoma, Multiple     |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma                      |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |
| C-cell, Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|            |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |   |
|------------|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|
| Tissue NOS |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  | + |
|------------|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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I .. Insufficient tissue

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

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | 4         | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |   |
|  | 8         | 4 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 4 | 3 | 4 | 6 | 7 | 9 | 2 | 4 | 3 |   |
| <b>3.0W/kg(GSM)chr</b>                       | 9         | 4 | 9 | 4 | 7 | 7 | 6 | 9 | 9 | 4 | 0 | 8 | 7 | 9 | 0 | 5 | 0 | 4 | 1 | 2 | 1 | 5 | 8 | 5 | 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 |   |
|  | 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 |   |
|  | 0         | 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         | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |   |
|  | 6         | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 8 | 0 | 1 | 2 | 3 |   |

females  
(cont...)

Chemodectoma Benign  
Fat, Adenocarcinoma, Metastatic, Uterus

**GENITAL SYSTEM**

Clitoral Gland  
Lymphoma Malignant

M +

Ovary  
Adenocarcinoma, Metastatic, Pancreas  
Cystadenoma  
Granulosa Cell Tumor Malignant  
Lymphoma Malignant  
Schwannoma Malignant  
Sex Cord Stromal Tumor, Benign

+  
X  
X

Uterus  
Adenocarcinoma  
Adenocarcinoma, Metastatic, Pancreas  
Leiomyosarcoma  
Lymphoma Malignant  
Polyp Stromal  
Polyp Stromal, Multiple  
Sarcoma Stromal  
Schwannoma Malignant  
Squamous Cell Carcinoma

+  
X  
X  
X  
X  
X  
X

Vagina

**HEMATOPOIETIC 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 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | females<br>(cont...) |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|
|   | 04          | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 06 | 06 | 07 | 07 |           |                      |
|   | 8           | 4  | 3  | 4  | 2  | 3  | 3  | 3  | 3  | 2  | 2  | 3  | 2  | 3  | 4  | 4  | 4  | 3  | 4  | 6  | 7  | 9  | 2  | 4  | 3         |                      |
|   | 9           | 4  | 9  | 4  | 7  | 7  | 6  | 9  | 9  | 4  | 0  | 8  | 7  | 9  | 0  | 5  | 0  | 4  | 1  | 2  | 1  | 5  | 8  | 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         |                      |
|   | 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         |                      |
|   | 0           | 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           | 2  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 5  | 5  | 5  | 5  | 5         |                      |
|   | 6           | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 5  | 6  | 8  | 0  | 1  | 2  | 3         |                      |
| Bone Marrow   | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         |                      |
| Lymphoma Malignant                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Lymph Node  |             |    |    |    |    |    |    | +  |    |    |    | +  |    |    |    |    |    |    | +  |    | +  | +  | +  |    |           |                      |
| Bronchial, Lymphoma Malignant                           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Iliac, Lymphoma Malignant                               |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Mediastinal, Adenocarcinoma, Metastatic, Pancreas       |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X         |                      |
| Lymph Node, Mandibular                                  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         |                      |
| Lymphoma Malignant                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Lymph Node, Mesenteric                                  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         |                      |
| Hemangiosarcoma   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Lymphoma Malignant                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Spleen  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         |                      |
| Leukemia Mononuclear                                    |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Lymphoma Malignant                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Thymus  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         |                      |
| Lymphoma Malignant                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |
| Schwannoma Malignant                                    |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                      |

INTEGUMENTARY SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland  | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-------------------|
|             | 04                                | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 06 | 06 | 07 | 07 |           |                   |
| 89          | 4                                 | 4  | 3  | 4  | 2  | 3  | 3  | 3  | 3  | 2  | 2  | 3  | 2  | 3  | 4  | 4  | 4  | 3  | 4  | 6  | 7  | 9  | 2  | 4  | 011026    |                   |
| 9           | 4                                 | 4  | 9  | 4  | 7  | 7  | 6  | 9  | 4  | 0  | 8  | 7  | 9  | 0  | 5  | 0  | 4  | 1  | 2  | 1  | 5  | 8  | 5  | 3  | 011027    |                   |
|             | 0                                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 011028    |                   |
|             | 1                                 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 011029    |                   |
|             | 0                                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 011030    |                   |
|             | 2                                 | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 5  | 5  | 5  | 5  | 5  | 011031    |                   |
|             | 6                                 | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 011032    |                   |

Fibroadenoma, Multiple  
Lymphoma Malignant

X X X X X X X X

Skin  
Pilomatrixoma  
Squamous Cell Carcinoma  
Squamous Cell Papilloma  
Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Lipoma

+ + + + + X +

MUSCULOSKELETAL SYSTEM

Bone  
Skeletal Muscle  
Diaphragm, Adenocarcinoma, Metastatic, Pancreas

+  
+ X + + + + +

NERVOUS SYSTEM

Brain  
Leukemia Mononuclear  
Lymphoma Malignant  
Meninges, Granular Cell Tumor Benign  
Nerve Trigeminal  
Lymphoma Malignant  
Peripheral Nerve, Sciatic

+  
+  
+ +

\* .. 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<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>4<br>8<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>2<br>7      | 0<br>7<br>3<br>7      | 0<br>6<br>3<br>6      | 0<br>7<br>3<br>9      | 0<br>4<br>3<br>9      | 0<br>7<br>2<br>4      | 0<br>7<br>2<br>0      | 0<br>7<br>3<br>8      | 0<br>7<br>2<br>7      | 0<br>7<br>3<br>9      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>5      | 0<br>6<br>4<br>0      | 0<br>7<br>4<br>1      | 0<br>6<br>6<br>2      | 0<br>6<br>7<br>1      | 0<br>6<br>9<br>5      | 0<br>6<br>2<br>8      | 0<br>7<br>4<br>5      | 0<br>7<br>3<br>9      |                       |                      |
|   | 0<br>1<br>0<br>2<br>6 | 0<br>1<br>0<br>2<br>7 | 0<br>1<br>0<br>2<br>8 | 0<br>1<br>0<br>2<br>9 | 0<br>1<br>0<br>3<br>0 | 0<br>1<br>0<br>3<br>1 | 0<br>1<br>0<br>3<br>2 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>4<br>3 | 0<br>1<br>0<br>4<br>4 | 0<br>1<br>0<br>4<br>4 | 0<br>1<br>0<br>4<br>4 | 0<br>1<br>0<br>4<br>4 | 0<br>1<br>0<br>4<br>4 | 0<br>1<br>0<br>5<br>5 | 0<br>1<br>0<br>5<br>5 | 0<br>1<br>0<br>5<br>5 | 0<br>1<br>0<br>5<br>5 | 0<br>1<br>0<br>5<br>5 | 0<br>1<br>0<br>5<br>5 |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Tibial  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical<br>Lymphoma Malignant                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar<br>Leukemia Mononuclear<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic<br>Leukemia Mononuclear<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion<br>Lymphoma Malignant                           | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + |

RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung<br>Adenocarcinoma, Metastatic, Uterus<br>Carcinoma, Metastatic, Thyroid Gland<br>Leukemia Mononuclear<br>Lymphoma Malignant<br>Squamous Cell Carcinoma, Metastatic, Skin<br>Mediastinum, Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea  | + | + | + | + | + | + | 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                    |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0744  | 0764  | 0774  | 0775  | 0777  | 0777  | 0747  | 0774  | 0777  | 0777  | 0777  | 0757  | 0776  | 0777  | 0777  | 0777  | 0757  | 0776  | 0777  | 0777  | 0757  | 0767  | 0777  | 0757  | <b>females</b><br><b>(cont...)</b> |
|  | ANIMAL ID   | 01055 | 01157 | 01158 | 01159 | 01161 | 01162 | 01163 | 01164 | 01165 | 01166 | 01167 | 01168 | 01169 | 01171 | 01174 | 01175 | 01176 | 01178 | 01179 | 01180 | 01181 | 01182 | 01183 | 01184 |                                    |
|  |             | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  | 0000  |                                    |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoma Malignant<br>Serosa, Adenocarcinoma, Metastatic,<br>Pancreas                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum   | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Peyer's Patch, Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Adenocarcinoma, Metastatic, Pancreas<br>Hepatocellular Adenoma<br>Leukemia Mononuclear<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Adenocarcinoma, Metastatic, Pancreas<br>Schwannoma Malignant, Metastatic, 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  
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CAS Number: CELLPRADGSM

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(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 | 6 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 6 | 7 | 7 | 5         |                      |
|   | 4           | 4 | 6 | 4 | 4 | 9 | 4 | 3 | 6 | 4 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 4 | 4 | 7 | 3 | 0 | 1 | 4 | 7 |           |                      |
|   | 4           | 0 | 1 | 4 | 4 | 3 | 1 | 8 | 4 | 1 | 9 | 9 | 7 | 5 | 8 | 1 | 9 | 1 | 0 | 8 | 8 | 6 | 3 | 4 | 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 |           |                      |
|   | 0           | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 |           |                      |
|   | 5           | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 |           |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Acinus, Adenocarcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myoepithelioma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parotid Gland, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tooth  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endocardium, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epicardium, Paraganglioma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myocardium, 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  
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Experiment Number: 20105 - 59

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Date Report Requested: 01/02/2018

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Lab: IIT

|  |             |                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0744                     | 0764 | 0774 | 0759 | 0774 | 0773 | 0746 | 0774 | 0777 | 0773 | 0773 | 0754 | 0773 | 0766 | 0777 | 0777 | 0757 | 0773 | 0766 | 0777 | 0777 | 0757 |
|  | ANIMAL ID   | 0105                     | 0117 | 0118 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |
|  |             | 55                       | 67   | 78   | 89   | 11   | 22   | 33   | 44   | 55   | 66   | 77   | 88   | 99   | 00   | 11   | 22   | 33   | 44   | 55   | 66   | 77   | 88   |
|  |             | <b>females (cont...)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**ENDOCRINE SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Benign              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Complex             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                              |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Carcinoma                            |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |
| Parathyroid Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | M | + | + | + |
| Pituitary Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Adenoma               |   | X | X | X | X |   | X | X |   | X |   | X |   | X | X |   | X |   |   |   | X |   | X |
| Pars Distalis, Adenoma, Multiple     | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma                      |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| C-cell, Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |

**GENERAL BODY SYSTEM**

|            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 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 |           | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 5 |
|                                   | ANIMAL ID | 4 | 4 | 6 | 4 | 4 | 9 | 4 | 3 | 6 | 4 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 4 | 4 | 4 | 7 | 3 | 0 | 1 | 4 |
| 3.0W/kg(GSM)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 |
|                                   |           | 0 | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 |   |
|                                   |           | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 |

females (cont...)

Chemodectoma Benign  
 Fat, Adenocarcinoma, Metastatic, Uterus

**GENITAL SYSTEM**

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

Ovary +  
 Adenocarcinoma, Metastatic, Pancreas  
 Cystadenoma  
 Granulosa Cell Tumor Malignant X  
 Lymphoma Malignant  
 Schwannoma Malignant  
 Sex Cord Stromal Tumor, Benign

Uterus +  
 Adenocarcinoma  
 Adenocarcinoma, Metastatic, Pancreas  
 Leiomyosarcoma  
 Lymphoma Malignant  
 Polyp Stromal X  
 Polyp Stromal, Multiple X  
 Sarcoma Stromal X X  
 Schwannoma Malignant  
 Squamous Cell Carcinoma

Vagina

**HEMATOPOIETIC 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0744        | 0740 | 0661 | 0744 | 0774 | 0573 | 0774 | 0474 | 0774 | 0473 | 0773 | 0773 | 0574 | 0773 | 0662 | 0773 | 0771 | 0770 | 0775 | 0773 | 0667 | 0776 | 0773 | 0775 | 0778 |           |                      |
|   | 0           | 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    |           |                      |
|   | 0           | 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    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 8    | 8    | 8    |           |                      |
|   | 5           | 6    | 7    | 8    | 9    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 3    |           |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node<br>Bronchial, Lymphoma Malignant<br>Iliac, Lymphoma Malignant<br>Mediastinal, Adenocarcinoma, Metastatic,<br>Pancreas |   |   | + | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   | + |   |   |   | + |
| Lymph Node, Mandibular<br>Lymphoma Malignant   | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric<br>Hemangiosarcoma<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen<br>Leukemia Mononuclear<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + |
| Thymus<br>Lymphoma Malignant<br>Schwannoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Adenocarcinoma<br>Adenoma<br>Fibroadenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                 | 0744                              | 0740 | 0661 | 0744 | 0744 | 0593 | 0774 | 0773 | 0464 | 0773 | 0773 | 0773 | 0544 | 0738 | 0661 | 0773 | 0774 | 0774 | 0578 | 0763 | 0670 | 0713 | 0744 | 0578 |           |                   |
| 3.0W/kg(GSM)chr | 0100                              | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 000555    |                   |

Fibroadenoma, Multiple  
Lymphoma Malignant

X X X X X X X X

Skin  
Pilomatrixoma  
Squamous Cell Carcinoma  
Squamous Cell Papilloma  
Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Lipoma

+ +

MUSCULOSKELETAL SYSTEM

Bone  
Skeletal Muscle  
Diaphragm, Adenocarcinoma, Metastatic,  
Pancreas

+  
+ +

NERVOUS SYSTEM

Brain  
Leukemia Mononuclear  
Lymphoma Malignant  
Meninges, Granular Cell Tumor Benign

+  
X

Nerve Trigeminal  
Lymphoma Malignant

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

Peripheral Nerve, Sciatic

+ +

\* .. 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 - 59

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
|--|-------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0737 | 0741 | 0733 | 0778 | 0640 | 0756 | 0383 | 0333 | 0444 | 0343 | 0440 | 0669 | 0489 | 0744 | 0738 | 0774 | 0744 | 0493 | 0699 | 0739 | 0772 | 00   | females<br>(cont...) |
|  | ANIMAL ID   | 01084 | 0115 | 0116 | 0117 | 0118 | 0119 | 0120 | 0121 | 0122 | 0123 | 0124 | 0125 | 0126 | 0127 | 0128 | 0129 | 0130 | 0131 | 0132 | 0133 | 0134 | 0135 | 0136 |                      |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoma Malignant<br>Serosa, Adenocarcinoma, Metastatic,<br>Pancreas                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Lymphoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Peyer's Patch, Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Adenocarcinoma, Metastatic, Pancreas<br>Hepatocellular Adenoma<br>Leukemia Mononuclear<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Adenocarcinoma, Metastatic, Pancreas<br>Schwannoma Malignant, Metastatic, Ovary                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0738        | 0737 | 0741 | 0733 | 0738 | 0700 | 0706 | 0703 | 0703 | 0704 | 0703 | 0704 | 0706 | 0704 | 0707 | 0704 | 0707 | 0707 | 0704 | 0706 | 0707 | 0704 | 0706 | 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    | 010084    |                      |

Pancreas  
Lymphoma Malignant  
Schwannoma Malignant, Metastatic, Ovary  
Acinus, Adenocarcinoma

Salivary Glands  
Lymphoma Malignant  
Myoepithelioma  
Parotid Gland, Adenoma

Stomach, Forestomach  
Lymphoma Malignant  
Squamous Cell Papilloma

Stomach, Glandular  
Lymphoma Malignant  
Serosa, Adenocarcinoma, Metastatic,  
Pancreas

Tooth

**CARDIOVASCULAR SYSTEM**

Aorta

Heart  
Endocardium, Schwannoma Malignant  
Epicardium, Paraganglioma  
Myocardium, Schwannoma Malignant

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+ .. Tissue examined microscopically  
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Experiment Number: 20105 - 59

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Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0737  | 0741  | 0733  | 0778  | 0640  | 0735  | 0383  | 0333  | 0443  | 0343  | 0466  | 0489  | 0744  | 0773  | 0774  | 0744  | 0493  | 0699  | 0739  | 0772  | 0770  | females<br>(cont...) |
|  | ANIMAL ID   | 01084 | 01156 | 01167 | 01178 | 01188 | 01199 | 01202 | 01213 | 01226 | 01237 | 01248 | 01259 | 01271 | 01282 | 01293 | 01304 | 01315 | 01326 | 01337 | 01348 | 01359 | 01370 |                      |

**ENDOCRINE SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Benign              |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Complex             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Carcinoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Parathyroid Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Pituitary Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Adenoma               | X | X |   |   |   | X |   |   |   |   |   |   |   | X |   |   | X |   | X |   |   | X | X |   |
| Pars Distalis, Adenoma, Multiple     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

|            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

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Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>1      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>8      | 0<br>7<br>4<br>0      | 0<br>6<br>5<br>6      | 0<br>7<br>3<br>8      | 0<br>3<br>8<br>3      | 0<br>3<br>8<br>3      | 0<br>4<br>6<br>4      | 0<br>3<br>8<br>3      | 0<br>4<br>5<br>0      | 0<br>6<br>6<br>9      | 0<br>4<br>8<br>4      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>2      | 0<br>4<br>3<br>8      | 0<br>7<br>4<br>0      | 0<br>4<br>4<br>4      | 0<br>6<br>9<br>3      | 0<br>7<br>9<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>2<br>0      |                       |                      |
|   | 0<br>1<br>0<br>8<br>4 | 0<br>1<br>0<br>8<br>5 | 0<br>1<br>0<br>8<br>6 | 0<br>1<br>0<br>8<br>7 | 0<br>1<br>0<br>8<br>8 | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>1<br>0<br>9<br>3 | 0<br>1<br>0<br>9<br>6 | 0<br>1<br>0<br>9<br>7 | 0<br>1<br>0<br>9<br>8 | 0<br>1<br>0<br>9<br>9 | 0<br>1<br>0<br>0<br>0 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>0<br>0<br>2 | 0<br>1<br>0<br>0<br>3 | 0<br>1<br>0<br>0<br>4 | 0<br>1<br>0<br>0<br>5 | 0<br>1<br>0<br>0<br>7 | 0<br>1<br>0<br>0<br>8 | 0<br>1<br>0<br>0<br>9 | 0<br>1<br>0<br>1<br>0 | 0<br>1<br>0<br>1<br>1 | 0<br>1<br>0<br>1<br>2 | 0<br>1<br>0<br>1<br>3 |                      |

Chemodectoma Benign  
Fat, Adenocarcinoma, Metastatic, Uterus

**GENITAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| Ovary<br>Adenocarcinoma, Metastatic, Pancreas<br>Cystadenoma<br>Granulosa Cell Tumor Malignant<br>Lymphoma Malignant<br>Schwannoma Malignant<br>Sex Cord Stromal Tumor, Benign   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus<br>Adenocarcinoma<br>Adenocarcinoma, Metastatic, Pancreas<br>Leiomyosarcoma<br>Lymphoma Malignant<br>Polyp Stromal<br>Polyp Stromal, Multiple<br>Sarcoma Stromal<br>Schwannoma Malignant<br>Squamous Cell Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |
| Vagina   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

**HEMATOPOIETIC 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0738        | 0737 | 0741 | 0733 | 0738 | 0740 | 0676 | 0733 | 0738 | 0733 | 0744 | 0733 | 0744 | 0666 | 0748 | 0744 | 0774 | 0774 | 0744 | 0774 | 0449 | 0634 | 0679 | 0773 |           |                      |
| Bone Marrow<br>Lymphoma Malignant                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | X         |                      |
| Lymph Node<br>Bronchial, Lymphoma Malignant             | +           |      |      |      |      | +    |      | +    |      | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Iliac, Lymphoma Malignant                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                      |
| Mediastinal, Adenocarcinoma, Metastatic,<br>Pancreas    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Lymph Node, Mandibular<br>Lymphoma Malignant            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | X         |                      |
| Lymph Node, Mesenteric<br>Hemangiosarcoma               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                      |
| Lymphoma Malignant                                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                      |
| Spleen<br>Leukemia Mononuclear                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                      |
| Lymphoma Malignant                                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                      |
| Thymus<br>Lymphoma Malignant                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | X         |                      |
| Schwannoma Malignant                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |

**INTEGUMENTARY SYSTEM**

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Adenocarcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenoma                         | X |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma                    | X | X |   |   | X | X | X |   | X | X | X | 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

| 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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | <b>3.0W/kg(GSM)chr</b> | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 3 | 3 | 4 | 3 | 4 | 6 | 4 | 7 | 7 | 4 | 7 | 7 | 4 | 6 | 7 |
|  |                        | 3 | 3 | 4 | 3 | 3 | 4 | 5 | 3 | 8 | 8 | 6 | 8 | 5 | 6 | 8 | 4 | 4 | 9 | 3 | 4 | 4 | 9 | 9 |
| <b>ANIMAL ID</b>                         |                        | 8 | 7 | 1 | 7 | 8 | 0 | 6 | 8 | 3 | 3 | 4 | 3 | 0 | 9 | 9 | 4 | 1 | 2 | 8 | 0 | 4 | 3 | 9 |
|  |                        | 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 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |                        | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
|  |                        | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

females (cont...)

Fibroadenoma, Multiple  
Lymphoma Malignant

X X X

Skin  
Pilomatrixoma  
Squamous Cell Carcinoma  
Squamous Cell Papilloma  
Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Lipoma

+  
X  
X

**MUSCULOSKELETAL SYSTEM**

Bone  
Skeletal Muscle  
Diaphragm, Adenocarcinoma, Metastatic, Pancreas

+  
+ +

**NERVOUS SYSTEM**

Brain  
Leukemia Mononuclear  
Lymphoma Malignant  
Meninges, Granular Cell Tumor Benign  
Nerve Trigeminal  
Lymphoma Malignant  
Peripheral Nerve, Sciatic

+  
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  
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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
|   | 0738        | 0737 | 0741 | 0733 | 0738 | 0740 | 0676 | 0737 | 0733 | 0738 | 0733 | 0734 | 0733 | 0734 | 0734 | 0736 | 0744 | 0737 | 0737 | 0737 | 0744 | 0734 | 0734 | 0734 |           |                      | 0736 |
|   | 0           | 0    | 0    | 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    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    |
|   | 8           | 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    |
|   | 4           | 5    | 6    | 7    | 8    | 1    | 2    | 3    | 6    | 7    | 8    | 9    | 9    | 0    | 0    | 1    | 2    | 3    | 4    | 5    | 7    | 8    | 9    | 0    | 1         | 2                    | 3    |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Tibial  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical<br>Lymphoma Malignant                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar<br>Leukemia Mononuclear<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic<br>Leukemia Mononuclear<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion<br>Lymphoma Malignant                           | + | + | + | + | + | + | + | M | I | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung<br>Adenocarcinoma, Metastatic, Uterus<br>Carcinoma, Metastatic, Thyroid Gland<br>Leukemia Mononuclear<br>Lymphoma Malignant<br>Squamous Cell Carcinoma, Metastatic, Skin<br>Mediastinum, Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

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Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0738 | 0737 | 0741 | 0733 | 0738 | 0740 | 0676 | 0733 | 0733 | 0434 | 0343 | 0446 | 0046 | 0747 | 0744 | 0073 | 0774 | 0774 | 0449 | 0643 | 0767 | 0773 | 0077 | 0077 |
|  | ANIMAL ID   | 0108 | 0108 | 0108 | 0108 | 0108 | 0109 | 0109 | 0109 | 0109 | 0109 | 0110 | 0110 | 0110 | 0110 | 0110 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |

females (cont...)

Lymphoma Malignant

**SPECIAL SENSES SYSTEM**

Eye +

Harderian Gland +  
Lymphoma Malignant

**URINARY SYSTEM**

Kidney +  
Lymphoma Malignant X  
Renal Tubule, Lymphoma Malignant X

Urinary Bladder +  
Lymphoma Malignant  
Schwannoma Malignant, Metastatic, Ovary  
Serosa, Adenocarcinoma, Metastatic, Pancreas

**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  
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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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | 6                      | 7 | 5 | 7 | 7 | 4 | 7 | 1 | 6 | 7 | 7 | 6 | 4 | 7 | 5 |   |   |
|  | 1                      | 4 | 4 | 3 | 4 | 5 | 3 | 4 | 4 | 4 | 0 | 6 | 8 | 4 | 7 |   |   |
|  | 9                      | 1 | 5 | 7 | 0 | 0 | 9 | 2 | 0 | 1 | 6 | 9 | 2 | 0 | 9 |   |   |
|  | <b>3.0W/kg(GSM)chr</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |   |
|  | 1                      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|  | 1                      | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |   |   |
|  | 4                      | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 |   |
| <b>* TOTALS</b>                              |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Intestine Large, Cecum                       | + | + | + | + | + | + | + | A | A | + | + | + | A | + | + |   | <b>83</b> |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | <b>1</b>  |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Intestine Large, Colon                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b> |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | <b>1</b>  |
| Intestine Large, Rectum                      | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | <b>89</b> |
| Intestine Small, Duodenum                    | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + |   | <b>83</b> |
| Intestine Small, Ileum                       | A | + | + | + | + | + | + | A | A | + | + | + | A | + | + |   | <b>81</b> |
| Intestine Small, Jejunum                     | A | + | + | + | + | + | + | A | A | + | + | + | A | + | A |   | <b>81</b> |
| Peyer's Patch, Lymphoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | <b>1</b>  |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenocarcinoma, Metastatic, Pancreas         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Hepatocellular Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Leukemia Mononuclear                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | <b>2</b>  |
| Mesentery                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>  |
| Adenocarcinoma, Metastatic, Pancreas         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. 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

| DAY ON TEST                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
|  | 6 | 7 | 5 | 7 | 7 | 4 | 7 | 1 | 6 | 7 | 7 | 6 | 4 | 7 | 5 | 5 | 5 | 5  |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE         | 1 | 4 | 4 | 3 | 4 | 5 | 3 | 4 | 4 | 4 | 0 | 6 | 8 | 4 | 7 | 7 | 7 | 7  |
|  | 9 | 1 | 5 | 7 | 0 | 0 | 9 | 2 | 0 | 1 | 6 | 9 | 2 | 0 | 9 | 9 | 9 | 9  |
| 3.0W/kg(GSM)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                                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |
|  | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 0 | 0  |
| <b>* TOTALS</b>                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Pancreas                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 2  |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Acinus, Adenocarcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Salivary Glands                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Myoepithelioma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Parotid Gland, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Stomach, Forestomach                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Squamous Cell Papilloma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Stomach, Glandular                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Tooth  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| <b>CARDIOVASCULAR SYSTEM</b>                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Aorta  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Heart  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Endocardium, Schwannoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Epicardium, Paraganglioma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Myocardium, 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 6                      | 7 | 5 | 7 | 7 | 4 | 7 | 1 | 6 | 7 | 7 | 6 | 4 | 7 | 5 |   |   |
|  | 1                      | 4 | 4 | 3 | 4 | 5 | 3 | 4 | 4 | 4 | 0 | 6 | 8 | 4 | 7 |   |   |
|  | 9                      | 1 | 5 | 7 | 0 | 0 | 9 | 2 | 0 | 1 | 6 | 9 | 2 | 0 | 9 |   |   |
|  | <b>3.0W/kg(GSM)chr</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |   |
|  | 1                      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|  | 1                      | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |   |   |
|  | 4                      | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 |   |   |
| <b>* TOTALS</b>                          |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ENDOCRINE SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex                       | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b> |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Adenoma                              |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | <b>2</b>  |
| Adrenal Medulla                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Pheochromocytoma Benign              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Pheochromocytoma Complex             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Islets, Pancreatic                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Carcinoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>4</b>  |
| Parathyroid Gland                    | + | + | M | M | + | M | + | + | + | + | + | + | + | M | + |   | <b>82</b> |
| Pituitary Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | <b>2</b>  |
| Pars Distalis, Adenoma               |   |   |   |   |   |   |   |   |   |   | X |   |   | X | X |   | <b>35</b> |
| Pars Distalis, Adenoma, Multiple     |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Thyroid Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| C-cell, Adenoma                      |   | X |   | X |   |   |   |   |   |   |   |   |   | X |   |   | <b>8</b>  |
| C-cell, Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**GENERAL BODY SYSTEM**

|            |  |  |  |  |   |  |  |  |  |   |  |  |  |  |  |  |          |
|------------|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|----------|
| Tissue NOS |  |  |  |  | + |  |  |  |  | + |  |  |  |  |  |  | <b>8</b> |
|------------|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|----------|

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 6               | 7 | 5 | 7 | 7 | 4 | 7 | 1 | 6 | 7 | 7 | 6 | 4 | 7 | 5 | 5 | 9 |
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 1               | 4 | 4 | 3 | 4 | 5 | 3 | 4 | 4 | 4 | 0 | 6 | 8 | 4 | 7 | 9 |   |
| <b>3.0W/kg(GSM)chr</b>                   | 9               | 1 | 5 | 7 | 0 | 0 | 9 | 2 | 0 | 1 | 6 | 9 | 2 | 0 | 9 |   |   |
| 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 |
|  | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 0 |
|  | 4               | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 |   |
|  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Chemodectoma Benign

X

1

Fat, Adenocarcinoma, Metastatic, Uterus

X

1

**GENITAL SYSTEM**

Clitoral Gland

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

86

Lymphoma Malignant

X

1

Ovary

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

90

Adenocarcinoma, Metastatic, Pancreas

1

Cystadenoma

X

1

Granulosa Cell Tumor Malignant

1

Lymphoma Malignant

X

2

Schwannoma Malignant

1

Sex Cord Stromal Tumor, Benign

1

Uterus

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

90

Adenocarcinoma

X

2

Adenocarcinoma, Metastatic, Pancreas

1

Leiomyosarcoma

X

1

Lymphoma Malignant

X

1

Polyp Stromal

10

Polyp Stromal, Multiple

1

Sarcoma Stromal

2

Schwannoma Malignant

1

Squamous Cell Carcinoma

X

2

Vagina

1

**HEMATOPOIETIC 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0619        | 0741  | 0545  | 0737  | 0744  | 0475  | 0734  | 0164  | 0674  | 0774  | 0664  | 0484  | 0744  | 0574  | 0957  |          |
| ANIMAL ID   | 01114       | 01115 | 01116 | 01117 | 01118 | 01119 | 01120 | 01121 | 01122 | 01123 | 01124 | 01125 | 01126 | 01127 | 01128 | 01129    |
| Bone Marrow<br>Lymphoma Malignant                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90<br>1  |
| Lymph Node<br>Bronchial, Lymphoma Malignant             |             |       |       | +     |       |       |       |       |       |       |       |       | +     |       |       | 21<br>1  |
| Iliac, Lymphoma Malignant                               |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 1        |
| Mediastinal, Adenocarcinoma, Metastatic,<br>Pancreas    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymph Node, Mandibular<br>Lymphoma Malignant            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 89<br>2  |
| Lymph Node, Mesenteric<br>Hemangiosarcoma               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90<br>1  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 2        |
| Spleen<br>Leukemia Mononuclear                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90<br>1  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 2        |
| Thymus<br>Lymphoma Malignant                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 88<br>2  |
| Schwannoma Malignant                                    |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 1        |
| <b>INTEGUMENTARY SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Mammary Gland<br>Adenocarcinoma                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 89<br>8  |
| Adenoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Fibroadenoma  |             |       | X     | X     | X     |       |       | X     |       |       | X     |       |       | X     |       | 38       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0619        | 0741  | 0545  | 0737  | 0744  | 0470  | 0719  | 0162  | 0670  | 0776  | 0776  | 0669  | 0482  | 0740  | 0579  |          |
| ANIMAL ID   | 01114       | 01115 | 01116 | 01117 | 01118 | 01119 | 01120 | 01121 | 01122 | 01123 | 01124 | 01125 | 01126 | 01127 | 01128 | 01129    |
| Fibroadenoma, Multiple                                  | X           |       |       |       | X     | X     |       |       | X     |       |       |       |       | X     |       |          |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |          |
| Skin  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |
| Pilomatrixoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Squamous Cell Carcinoma                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Squamous Cell Papilloma                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Subcutaneous Tissue, Fibroma                            |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |          |
| Subcutaneous Tissue, Lipoma                             |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |          |
| <b>MUSCULOSKELETAL SYSTEM</b>                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Bone  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |
| Skeletal Muscle   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |
| Diaphragm, Adenocarcinoma, Metastatic, Pancreas         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| <b>NERVOUS SYSTEM</b>                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Brain   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |
| Leukemia Mononuclear                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |          |
| Meninges, Granular Cell Tumor Benign                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Nerve Trigeminal  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |          |
| Peripheral Nerve, Sciatic                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |

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 X .. Lesion present  
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 A .. Autolysis precludes evaluation  
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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

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<br>FEMALE<br>3.0W/kg(GSM)chr             | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|   | 0619        | 0741  | 0545  | 0737  | 0744  | 0475  | 0734  | 0169  | 0672  | 0744  | 0601  | 0469  | 0844  | 0709  | 0579  |              |
| ANIMAL ID   | 01114       | 01115 | 01116 | 01117 | 01118 | 01119 | 01120 | 01121 | 01122 | 01123 | 01124 | 01125 | 01126 | 01127 | 01128 | 01129        |
| Peripheral Nerve, Tibial  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90           |
| Spinal Cord, Cervical<br>Lymphoma Malignant                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     | 90<br>2      |
| Spinal Cord, Lumbar<br>Leukemia Mononuclear<br>Lymphoma Malignant   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90<br>1<br>1 |
| Spinal Cord, Thoracic<br>Leukemia Mononuclear<br>Lymphoma Malignant | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90<br>1<br>1 |
| Trigeminal Ganglion<br>Lymphoma Malignant                           | +           | +     | +     | +     | M     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | 80<br>2      |
| <b>RESPIRATORY SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90           |
| Adenocarcinoma, Metastatic, Uterus                                  |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       | 1            |
| Carcinoma, Metastatic, Thyroid Gland                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1            |
| Leukemia Mononuclear  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1            |
| Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 2            |
| Squamous Cell Carcinoma, Metastatic, Skin                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1            |
| Mediastinum, Lymphoma Malignant                                     |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 1            |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90           |
| Lymphoma Malignant  |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 2            |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 89           |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Time Report Requested: 11:58:55

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 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 6 | 7 | 5 | 7 | 7 | 4 | 7 | 1 | 6 | 7 | 7 | 6 | 4 | 7 | 5 | 5 | 9 |
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 1 | 4 | 4 | 3 | 4 | 5 | 3 | 4 | 4 | 4 | 0 | 6 | 8 | 4 | 7 | 9 |   |
| <b>3.0W/kg(GSM)chr</b>                   | 9 | 1 | 5 | 7 | 0 | 0 | 9 | 2 | 0 | 1 | 6 | 9 | 2 | 0 | 9 |   |   |
| 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 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 0 |
|  | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 |   |
| <b>* TOTALS</b>                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Lymphoma Malignant

X

1

**SPECIAL SENSES SYSTEM**

Eye

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

87

Harderian Gland

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

90

Lymphoma Malignant

X

1

**URINARY SYSTEM**

Kidney

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

90

Lymphoma Malignant

X

2

Renal Tubule, Lymphoma Malignant

1

Urinary Bladder

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

90

Lymphoma Malignant

X

1

Schwannoma Malignant, Metastatic, Ovary

1

Serosa, Adenocarcinoma, Metastatic, Pancreas

1

**SYSTEMIC LESIONS**

Multiple Organ

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

90

Leukemia Mononuclear

1

Lymphoma Malignant

X

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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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                              | 0738   | 0771   | 0645   | 0548   | 0622   | 0741   | 0773   | 0636   | 0733   | 0784   | 0730   | 0779   | 0771   | 0773   | 0774   | 0774   | 0294   | 0744   | 0774   | 0488   | 0733   | 0778   |        |           |                   |        |
| 6.0W/kg(GSM)chr | 01237                             | 011337 | 011440 | 011441 | 011442 | 011443 | 011444 | 011445 | 011446 | 011447 | 011448 | 011449 | 011450 | 011451 | 011452 | 011453 | 011454 | 011455 | 011456 | 011457 | 011458 | 011459 | 011460 | 011461 | 011462    | 011463            | 011464 |

Stomach, Forestomach Lymphoma Malignant

+ +

Stomach, Glandular Lymphoma Malignant

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

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart Lymphoma Malignant

+ +

ENDOCRINE SYSTEM

Adrenal Cortex Adenoma Lymphoma Malignant

+ X X + + + + X

Adrenal Medulla Pheochromocytoma Benign Bilateral, Pheochromocytoma Benign

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

Islets, Pancreatic Adenoma Carcinoma

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

Parathyroid Gland

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

Pituitary Gland

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
|   | 0<br>5<br>4<br>5 | 0<br>7<br>3<br>8 | 0<br>7<br>4<br>1 | 0<br>6<br>5<br>6 | 0<br>5<br>4<br>8 | 0<br>6<br>2<br>2 | 0<br>7<br>4<br>1 | 0<br>7<br>3<br>8 | 0<br>6<br>6<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>6<br>8<br>7 | 0<br>7<br>4<br>0 | 0<br>7<br>3<br>9 | 0<br>7<br>4<br>1 | 0<br>7<br>3<br>7 | 0<br>7<br>4<br>0 | 0<br>2<br>9<br>0 | 0<br>7<br>4<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>1 | 0<br>4<br>8<br>9 | 0<br>7<br>3<br>8 | 0<br>7<br>3<br>8 |           |                      |
| Adenocarcinoma  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                | X                |                  |           |                      |
| Adenoma   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X         |                      |
| Fibroadenoma  |                  |                  | X                | X                |                  |                  |                  |                  |                  | X                | X                | X                |                  |                  |                  |                  | X                |                  | X                |                  |                  |                  |                  | X                |           |                      |
| Fibroadenoma, Multiple                                  | X                | X                |                  |                  |                  |                  |                  | X                | X                | X                |                  |                  |                  | X                | X                |                  |                  |                  | X                | X                |                  |                  |                  |                  |           |                      |
| Myoepithelioma  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |           |                      |
| Skin  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Keratoacanthoma   |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Squamous Cell Carcinoma                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Subcutaneous Tissue, Fibroma                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |           |                      |
| Subcutaneous Tissue, Fibrosarcoma                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| <b>MUSCULOSKELETAL SYSTEM</b>                           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Bone  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Skeletal Muscle   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| <b>NERVOUS SYSTEM</b>                                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Brain   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Carcinoma, Metastatic, Pituitary Gland                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Glioma Malignant  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Lymphoma Malignant                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |           |                      |
| Meninges, Granular Cell Tumor Malignant                 |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Nerve Trigeminal  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Peripheral Nerve, Sciatic                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |

\* .. 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<br>FEMALE<br>6.0W/kg(GSM)chr            | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>5<br>4<br>5      | 0<br>7<br>3<br>8      | 0<br>7<br>4<br>1      | 0<br>6<br>5<br>6      | 0<br>5<br>4<br>8      | 0<br>6<br>2<br>2      | 0<br>7<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>6<br>6<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>6<br>8<br>7      | 0<br>7<br>4<br>0      | 0<br>7<br>3<br>9      | 0<br>7<br>4<br>1      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>0      | 0<br>2<br>9<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>8<br>9      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      |                       |                      |
| ANIMAL ID  | 0<br>1<br>2<br>3<br>7 | 0<br>1<br>2<br>3<br>8 | 0<br>1<br>2<br>4<br>0 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>4<br>3 | 0<br>1<br>2<br>4<br>4 | 0<br>1<br>2<br>4<br>4 | 0<br>1<br>2<br>4<br>5 | 0<br>1<br>2<br>4<br>6 | 0<br>1<br>2<br>4<br>7 | 0<br>1<br>2<br>4<br>8 | 0<br>1<br>2<br>4<br>9 | 0<br>1<br>2<br>5<br>0 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>5<br>2 | 0<br>1<br>2<br>5<br>3 | 0<br>1<br>2<br>5<br>4 | 0<br>1<br>2<br>5<br>5 | 0<br>1<br>2<br>5<br>6 | 0<br>1<br>2<br>5<br>7 | 0<br>1<br>2<br>5<br>8 | 0<br>1<br>2<br>6<br>9 | 0<br>1<br>2<br>6<br>0 |                      |
| Peripheral Nerve, Tibial   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Spinal Cord, Cervical<br>Lymphoma Malignant                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Spinal Cord, Lumbar  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Spinal Cord, Thoracic  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Trigeminal Ganglion  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | I                     | +                     | +                     | +                     | +                     | +                     |                      |
| <b>RESPIRATORY SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Lung<br>Carcinoma, Metastatic, Thyroid Gland<br>Lymphoma Malignant | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     |                      |
| Nose   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Trachea<br>Lymphoma Malignant                                      | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| <b>SPECIAL SENSES SYSTEM</b>                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| Eye<br>Lymphoma Malignant  | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     |                      |
| Harderian Gland  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                      |
| Zymbal's Gland   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---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|             | 0740                              | 0624 | 0745 | 0739 | 0283 | 0658 | 0773 | 0774 | 0777 | 0778 | 0644 | 0743 | 0744 | 0773 | 0299 | 0744 | 0737 | 0773 | 0347 | 0565 | 0773 | 0774 | 0777 | 0778 |           |                   | 0011 | 0122 | 0226 | 0227 | 0228 | 0229 | 0270 | 0271 | 0272 | 0273 | 0274 | 0275 | 0276 | 0277 | 0278 | 0279 | 0300 | 0301 | 0302 | 0303 | 0304 | 0305 | 0306 | 0307 | 0308 | 0309 | 0310 | 0311 | 0312 | 0313 | 0314 | 0315 | 0316 | 0317 | 0318 | 0319 | 0320 | 0321 | 0322 | 0323 | 0324 | 0325 | 0326 | 0327 | 0328 | 0329 | 0330 | 0331 | 0332 | 0333 | 0334 | 0335 | 0336 | 0337 | 0338 | 0339 | 0340 | 0341 | 0342 | 0343 | 0344 | 0345 | 0346 | 0347 | 0348 | 0349 | 0350 | 0351 | 0352 | 0353 | 0354 | 0355 | 0356 | 0357 | 0358 | 0359 | 0360 | 0361 | 0362 | 0363 | 0364 | 0365 | 0366 | 0367 | 0368 | 0369 | 0370 | 0371 | 0372 | 0373 | 0374 | 0375 | 0376 | 0377 | 0378 | 0379 | 0380 | 0381 | 0382 | 0383 | 0384 | 0385 | 0386 | 0387 | 0388 | 0389 | 0390 | 0391 | 0392 | 0393 | 0394 | 0395 | 0396 | 0397 | 0398 | 0399 | 0400 | 0401 | 0402 | 0403 | 0404 | 0405 | 0406 | 0407 | 0408 | 0409 | 0410 | 0411 | 0412 | 0413 | 0414 | 0415 | 0416 | 0417 | 0418 | 0419 | 0420 | 0421 | 0422 | 0423 | 0424 | 0425 | 0426 | 0427 | 0428 | 0429 | 0430 | 0431 | 0432 | 0433 | 0434 | 0435 | 0436 | 0437 | 0438 | 0439 | 0440 | 0441 | 0442 | 0443 | 0444 | 0445 | 0446 | 0447 | 0448 | 0449 | 0450 | 0451 | 0452 | 0453 | 0454 | 0455 | 0456 | 0457 | 0458 | 0459 | 0460 | 0461 | 0462 | 0463 | 0464 | 0465 | 0466 | 0467 | 0468 | 0469 | 0470 | 0471 | 0472 | 0473 | 0474 | 0475 | 0476 | 0477 | 0478 | 0479 | 0480 | 0481 | 0482 | 0483 | 0484 | 0485 | 0486 | 0487 | 0488 | 0489 | 0490 | 0491 | 0492 | 0493 | 0494 | 0495 | 0496 | 0497 | 0498 | 0499 | 0500 | 0501 | 0502 | 0503 | 0504 | 0505 | 0506 | 0507 | 0508 | 0509 | 0510 | 0511 | 0512 | 0513 | 0514 | 0515 | 0516 | 0517 | 0518 | 0519 | 0520 | 0521 | 0522 | 0523 | 0524 | 0525 | 0526 | 0527 | 0528 | 0529 | 0530 | 0531 | 0532 | 0533 | 0534 | 0535 | 0536 | 0537 | 0538 | 0539 | 0540 | 0541 | 0542 | 0543 | 0544 | 0545 | 0546 | 0547 | 0548 | 0549 | 0550 | 0551 | 0552 | 0553 | 0554 | 0555 | 0556 | 0557 | 0558 | 0559 | 0560 | 0561 | 0562 | 0563 | 0564 | 0565 | 0566 | 0567 | 0568 | 0569 | 0570 | 0571 | 0572 | 0573 | 0574 | 0575 | 0576 | 0577 | 0578 | 0579 | 0580 | 0581 | 0582 | 0583 | 0584 | 0585 | 0586 | 0587 | 0588 | 0589 | 0590 | 0591 | 0592 | 0593 | 0594 | 0595 | 0596 | 0597 | 0598 | 0599 | 0600 | 0601 | 0602 | 0603 | 0604 | 0605 | 0606 | 0607 | 0608 | 0609 | 0610 | 0611 | 0612 | 0613 | 0614 | 0615 | 0616 | 0617 | 0618 | 0619 | 0620 | 0621 | 0622 | 0623 | 0624 | 0625 | 0626 | 0627 | 0628 | 0629 | 0630 | 0631 | 0632 | 0633 | 0634 | 0635 | 0636 | 0637 | 0638 | 0639 | 0640 | 0641 | 0642 | 0643 | 0644 | 0645 | 0646 | 0647 | 0648 | 0649 | 0650 | 0651 | 0652 | 0653 | 0654 | 0655 | 0656 | 0657 | 0658 | 0659 | 0660 | 0661 | 0662 | 0663 | 0664 | 0665 | 0666 | 0667 | 0668 | 0669 | 0670 | 0671 | 0672 | 0673 | 0674 | 0675 | 0676 | 0677 | 0678 | 0679 | 0680 | 0681 | 0682 | 0683 | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | 0700 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 | 0707 | 0708 | 0709 | 0710 | 0711 | 0712 | 0713 | 0714 | 0715 | 0716 | 0717 | 0718 | 0719 | 0720 | 0721 | 0722 | 0723 | 0724 | 0725 | 0726 | 0727 | 0728 | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 | 0756 | 0757 | 0758 | 0759 | 0760 | 0761 | 0762 | 0763 | 0764 | 0765 | 0766 | 0767 | 0768 | 0769 | 0770 | 0771 | 0772 | 0773 | 0774 | 0775 | 0776 | 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 | 0998 | 0999 | 1000 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1437 | 1438 | 1439 | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 | 1451 | 1452 | 1453 | 1454 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1474 | 1475 | 1476 | 1477 | 1478 | 1479 | 1480 | 1481 | 1482 | 1483 | 1484 | 1485 | 1486 | 1487 | 1488 | 1489 | 1490 | 1491 | 1492 | 1493 | 1494 | 1495 | 1496 | 1497 | 1498 | 1499 | 1500 | 1501 | 1502 | 1503 | 1504 | 1505 | 1506 | 1507 | 1508 | 1509 | 1510 | 1511 | 1512 | 1513 | 1514 | 1515 | 1516 | 1517 | 1518 | 1519 | 1520 | 1521 | 1522 | 1523 | 1524 | 1525 | 1526 | 1527 | 1528 | 1529 | 1530 | 1531 | 1532 | 1533 | 1534 | 1535 | 1536 | 1537 | 1538 | 1539 | 1540 | 1541 | 1542 | 1543 | 1544 | 1545 | 1546 | 1547 | 1548 | 1549 | 1550 | 1551 | 1552 | 1553 | 1554 | 1555 | 1556 | 1557 | 1558 | 1559 | 1560 | 1561 | 1562 | 1563 | 1564 |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0740        | 0624 | 0745 | 0739 | 0283 | 0658 | 0777 | 0777 | 0777 | 0777 | 0664 | 0774 | 0774 | 0773 | 0299 | 0744 | 0773 | 0774 | 0370 | 0556 | 0773 | 0774 | 0773 | 0773 |           |                      |
|   | 0126        | 0112 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111      | 0111                 |
|   | 2264        | 2265 | 2266 | 2267 | 2268 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289      | 2290                 |

Stomach, Forestomach  
Lymphoma Malignant

+  
X

Stomach, Glandular  
Lymphoma Malignant

+  
X

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart  
Lymphoma Malignant

+  
X

ENDOCRINE SYSTEM

Adrenal Cortex  
Adenoma  
Lymphoma Malignant

+  
X X

Adrenal Medulla  
Pheochromocytoma Benign  
Bilateral, Pheochromocytoma Benign

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

Islets, Pancreatic  
Adenoma  
Carcinoma

+ +

Parathyroid Gland

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

Pituitary 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|--|
|   | 0740        | 0624  | 0745  | 0739  | 0283  | 0658  | 0777  | 0774  | 0773  | 0777  | 0676  | 0777  | 0774  | 0773  | 0299  | 0744  | 0737  | 0770  | 0375  | 0576  | 0773  | 0774  | 0738  | 0777  | 0739  |                      |  |
| ANIMAL ID   | 01264       | 01265 | 01266 | 01267 | 01268 | 01269 | 01270 | 01271 | 01272 | 01273 | 01274 | 01275 | 01276 | 01277 | 01278 | 01279 | 01280 | 01281 | 01282 | 01283 | 01284 | 01285 | 01286 | 01287 | 01288 |                      |  |
| Pars Distalis, Adenoma                                  | X           |       | X     |       |       | X     |       |       |       |       |       |       | X     |       |       |       |       | X     |       | X     |       |       |       |       |       |                      |  |
| Pars Distalis, Carcinoma                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Thyroid Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     |                      |  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Bilateral, C-cell, Adenoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| C-cell, Adenoma   | X           |       |       | X     |       |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |                      |  |
| C-cell, Carcinoma                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| <b>GENERAL BODY SYSTEM</b>                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Tissue NOS  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Abdominal, Fat, Lymphoma Malignant                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| <b>GENITAL SYSTEM</b>                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Clitoral Gland  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +                    |  |
| Squamous Cell Carcinoma                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Ovary   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +                    |  |
| Lymphoma Malignant                                      |             | X     |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Tubulostromal Carcinoma                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Bilateral, Rete Ovarii, Adenoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Uterus  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +                    |  |
| Adenocarcinoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Adenoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X                    |  |
| Histiocytic Sarcoma                                     |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Polyp Stromal   |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Polyp Stromal, 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

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

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

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0740  | 0624  | 0745  | 0739  | 0283  | 0658  | 0770  | 0774  | 0778  | 0674  | 0774  | 0779  | 0299  | 0744  | 0737  | 0370  | 0555  | 0773  | 0774  | 0777  | 0773  | 0773  | 0779  |       |
|  | ANIMAL ID   | 01264 | 01265 | 01266 | 01267 | 01268 | 01269 | 01270 | 01271 | 01272 | 01273 | 01274 | 01275 | 01276 | 01277 | 01278 | 01279 | 01280 | 01281 | 01282 | 01283 | 01284 | 01285 | 01286 | 01287 |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

females (cont...)

Cervix, Malignant Mixed Mullerian Tumor  
Cervix, Schwannoma Malignant

X

Vagina

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ +

Deep Cervical, Lymphoma Malignant  
Inguinal, Lymphoma Malignant  
Mediastinal, Lymphoma Malignant  
Pancreatic, Lymphoma Malignant

X X

Lymph Node, Mandibular  
Lymphoma Malignant

+  
X X

Lymph Node, Mesenteric  
Lymphoma Malignant

+  
X X

Spleen  
Hemangiosarcoma  
Lymphoma Malignant

+  
X X X

Thymus  
Lymphoma Malignant

I + M + + + + + + + + + + + + + + I M + + + + + +  
X X

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0740        | 0624 | 0745 | 0773 | 0283 | 0658 | 0777 | 0777 | 0777 | 0674 | 0774 | 0774 | 0774 | 0299 | 0744 | 0773 | 0773 | 0374 | 0565 | 0773 | 0774 | 0777 | 0777 | 0777 | 0777 |           |                      |
| Adenocarcinoma  |             |      |      | X    |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Adenoma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Fibroadenoma  |             |      |      |      | X    | X    |      | X    | X    |      | X    |      | X    | X    |      |      |      |      | X    | X    |      |      |      |      | X    |           |                      |
| Fibroadenoma, Multiple                                  | X           |      | X    | X    |      |      |      |      |      | X    |      |      |      |      |      |      |      | X    | X    |      |      | X    |      | X    | X    |           |                      |
| Myoepithelioma  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Skin  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |           |                      |
| Keratoacanthoma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Squamous Cell Carcinoma                                 |             |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Subcutaneous Tissue, Fibroma                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |           |                      |
| Subcutaneous Tissue, Fibrosarcoma                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| <b>MUSCULOSKELETAL SYSTEM</b>                           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Bone  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                      |
| Skeletal Muscle   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                      |
| <b>NERVOUS SYSTEM</b>                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Brain   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                      |
| Carcinoma, Metastatic, Pituitary Gland                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Glioma Malignant  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Lymphoma Malignant                                      |             |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Meninges, Granular Cell Tumor Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Nerve Trigeminal  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                      |
| Peripheral Nerve, Sciatic                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                      |

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0740        | 0624 | 0745 | 0739 | 0283 | 0658 | 0777 | 0774 | 0774 | 0774 | 0675 | 0774 | 0774 | 0774 | 0299 | 0744 | 0773 | 0773 | 0347 | 0565 | 0773 | 0774 | 0773 | 0773 |           |                      |
|   | 0126        | 0112 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111      |                      |
|   | 2264        | 2265 | 2266 | 2267 | 2268 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289      |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Tibial                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                         | + | + | + | M | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | M | + | + | + |

RESPIRATORY SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                   |   | X |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Nose                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |

SPECIAL SENSES SYSTEM

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Zymbal's Gland     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 07 | 06 | 07 | 07 | 02 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 02 | 07 | 07 | 07 | 03 | 05 | 07 | 07 | 07 | 07 | 07 | 07 |
|  | ANIMAL ID   | 40 | 42 | 44 | 45 | 48 | 49 | 43 | 44 | 43 | 44 | 43 | 45 | 44 | 41 | 49 | 49 | 44 | 43 | 44 | 47 | 46 | 43 | 44 | 43 | 43 | 43 |
|  |             | 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 |

females  
(cont...)

Squamous Cell Papilloma

URINARY SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma, Multiple   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Carcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                   | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant  |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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I .. Insufficient tissue

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

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0744  | 0720  | 0739  | 0744  | 0774  | 0756  | 0767  | 0766  | 0777  | 0777  | 0777  | 0777  | 0766  | 0777  | 0777  | 0777  | 0766  | 0777  | 0766  | 0755  | 0777  | 0777  | 0777  | 0777  | females<br>(cont...) |
|  | ANIMAL ID   | 01294 | 01156 | 01167 | 01178 | 01189 | 01190 | 01201 | 01213 | 01224 | 01235 | 01246 | 01257 | 01268 | 01279 | 01280 | 01291 | 01302 | 01313 | 01324 | 01335 | 01346 | 01357 | 01368 | 01379 |                      |

ALIMENTARY SYSTEM

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   | females<br>(cont...) |
|---|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|----------------------|
|   | 0744        | 0742 | 0773      | 0774 | 0775 | 0756 | 0767 | 0766 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 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 |                      |
|   | 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 |                      |
|   | 2           | 2    | 2         | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3 |                      |
|   | 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 |                      |
|   | 4           | 5    | 6         | 7    | 8    | 9    | 0    | 1    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 2 |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Adenoma<br>Lymphoma Malignant                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma                                       | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland  | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
|   | 0744        | 0720 | 0773 | 0774 | 0774 | 0774 | 0759 | 0760 | 0774 | 0764 | 0767 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0766 | 0777 | 0776 | 0765 | 0777 | 0777 | 0777 |           |                      | 0777 |
| Pars Distalis, Adenoma                                  | X           |      | X    | X    |      | X    | X    | X    |      | X    | X    |      | X    | X    |      | X    | X    |      | X    | X    |      | X    | X    |      | X         |                      |      |
| Pars Distalis, Carcinoma                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Thyroid Gland   | +           | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                      |      |
| Lymphoma Malignant                                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Bilateral, C-cell, Adenoma                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| C-cell, Adenoma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| C-cell, Carcinoma                                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| <b>GENERAL BODY SYSTEM</b>                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Tissue NOS  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Abdominal, Fat, Lymphoma Malignant                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| <b>GENITAL SYSTEM</b>                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Clitoral Gland  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |      |
| Squamous Cell Carcinoma                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Ovary   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |      |
| Lymphoma Malignant                                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Tubulostromal Carcinoma                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Bilateral, Rete Ovarii, Adenoma                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Uterus  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |      |
| Adenocarcinoma  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Adenoma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Histiocytic Sarcoma                                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Polyp Stromal   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Polyp Stromal, Multiple                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0744        | 0742 | 0773 | 0774 | 0775 | 0756 | 0767 | 0766 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 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         |                      |
|   | 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         |                      |
|   | 2           | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3         |                      |
|   | 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         |                      |
|   | 4           | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 6    | 7    | 8    | 9    | 0    | 0    | 2         |                      |

|                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adenocarcinoma         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adenoma                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibroadenoma           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibroadenoma, Multiple |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Myoepithelioma         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Squamous Cell Carcinoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Pituitary Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Glioma Malignant                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Meninges, Granular Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nerve Trigeminal                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Peripheral Nerve, Sciatic               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

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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

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0744        | 0742 | 0773 | 0774 | 0775 | 0756 | 0767 | 0766 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 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    | 012294    |                      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0112294   |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Peripheral Nerve, Tibial                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Cervical<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Lumbar                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Thoracic                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trigeminal Ganglion                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung<br>Carcinoma, Metastatic, Thyroid Gland<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trachea<br>Lymphoma Malignant                                      | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |  |

SPECIAL SENSES SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye<br>Lymphoma Malignant | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Harderian Gland           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Zymbal's 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> |                        | 7 | 4 | 7 | 6 | 5 | 6 | 4 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 4 | 3 | 6 | 1 | 9 | 8 | 3 | 4 | 9 | 0 | 4 | 3 | 2 | 2 | 2 |
|  |                        | 7 | 3 | 8 | 9 | 4 | 7 | 7 | 8 | 4 | 3 | 0 | 0 | 9 | 7 | 0 | 0 |
|  | <b>6.0W/kg(GSM)chr</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |                        | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
|  |                        | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 9 | 0 | 0 |
| <b>* TOTALS</b>                              |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 3  |
| Lymphoma Malignant        |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Lymphoma Malignant        |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Malignant      |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 1  |

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 I .. Insufficient tissue

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr                          | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|  | 0<br>7<br>3<br>7      | 0<br>4<br>4<br>3      | 0<br>7<br>3<br>8      | 0<br>6<br>6<br>9      | 0<br>5<br>1<br>4      | 0<br>6<br>9<br>7      | 0<br>4<br>8<br>7      | 0<br>7<br>3<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>3      | 0<br>3<br>0<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>3<br>9      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>0      |          |
| ANIMAL ID  | 0<br>1<br>3<br>2<br>3 | 0<br>1<br>3<br>2<br>4 | 0<br>1<br>3<br>2<br>6 | 0<br>1<br>3<br>2<br>7 | 0<br>1<br>3<br>2<br>8 | 0<br>1<br>3<br>2<br>9 | 0<br>1<br>3<br>3<br>0 | 0<br>1<br>3<br>3<br>1 | 0<br>1<br>3<br>3<br>2 | 0<br>1<br>3<br>3<br>3 | 0<br>1<br>3<br>3<br>5 | 0<br>1<br>3<br>3<br>7 | 0<br>1<br>3<br>3<br>8 | 0<br>1<br>3<br>3<br>9 | 0<br>1<br>3<br>3<br>0 |          |
| Stomach, Forestomach<br>Lymphoma Malignant                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90<br>1               |          |
| Stomach, Glandular<br>Lymphoma Malignant   | +                     | +                     | +                     | +                     | +                     | X                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89<br>2               |          |
| <b>CARDIOVASCULAR SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Aorta  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Heart<br>Lymphoma Malignant  | +                     | +                     | +                     | +                     | +                     | X                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90<br>2               |          |
| <b>ENDOCRINE SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Adrenal Cortex<br>Adenoma<br>Lymphoma Malignant                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90<br>5<br>2          |          |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 86<br>1<br>1          |          |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87<br>4<br>4          |          |
| Parathyroid Gland  | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | 79                    |          |
| Pituitary Gland  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |

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|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
|   | 07<br>37       | 04<br>44       | 07<br>33       | 06<br>66       | 05<br>11       | 06<br>69       | 04<br>47       | 07<br>78       | 07<br>73       | 05<br>54       | 03<br>30       | 07<br>74       | 07<br>73       | 07<br>72       | 07<br>70       |          |
| ANIMAL ID   | 01<br>33<br>23 | 01<br>33<br>24 | 01<br>33<br>26 | 01<br>33<br>27 | 01<br>33<br>28 | 01<br>33<br>29 | 01<br>33<br>30 | 01<br>33<br>31 | 01<br>33<br>32 | 01<br>33<br>33 | 01<br>33<br>34 | 01<br>33<br>35 | 01<br>33<br>37 | 01<br>33<br>38 | 01<br>33<br>39 |          |
| Pars Distalis, Adenoma                                  | X              |                |                |                |                | X              | X              | X              |                |                |                |                | X              |                |                | 32       |
| Pars Distalis, Carcinoma                                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| Thyroid Gland   | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | 88       |
| Lymphoma Malignant                                      |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| Bilateral, C-cell, Adenoma                              |                |                |                |                |                |                |                |                |                |                |                |                | X              |                |                | 1        |
| C-cell, Adenoma   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 12       |
| C-cell, Carcinoma                                       |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| <b>GENERAL BODY SYSTEM</b>                              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |          |
| Tissue NOS  |                |                |                |                | +              |                |                |                | +              |                |                |                | +              |                |                | 10       |
| Abdominal, Fat, Lymphoma Malignant                      |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| <b>GENITAL SYSTEM</b>                                   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |          |
| Clitoral Gland  | +              | +              | +              | +              | M              | +              | +              | +              | +              | +              | +              | +              | +              | +              | M              | 87       |
| Squamous Cell Carcinoma                                 |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| Ovary   | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | 90       |
| Lymphoma Malignant                                      |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 2        |
| Tubulostromal Carcinoma                                 |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| Bilateral, Rete Ovarii, Adenoma                         |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| Uterus  | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | +              | 90       |
| Adenocarcinoma  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 5        |
| Adenoma   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| Histiocytic Sarcoma                                     |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |
| Polyp Stromal   |                |                |                |                |                | X              |                | X              |                |                |                |                |                |                |                | 16       |
| Polyp Stromal, Multiple                                 |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 1        |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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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 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                      | 7 | 4 | 7 | 6 | 5 | 6 | 4 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE | 3 | 4 | 3 | 6 | 1 | 9 | 8 | 3 | 4 | 9 | 0 | 4 | 3 | 2 | 2 | 2 | 0 |
|                                      | 7 | 3 | 8 | 9 | 4 | 7 | 7 | 8 | 4 | 3 | 0 | 0 | 9 | 7 | 0 | 0 | 0 |
| ANIMAL ID                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.0W/kg(GSM)chr                      | 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 |
|                                      | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
|                                      | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 9 | 0 | 0 | 0 |
| <b>* TOTALS</b>                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Cervix, Malignant Mixed Mullerian Tumor

1

Cervix, Schwannoma Malignant

1

Vagina

+

1

**HEMATOPOIETIC SYSTEM**

Bone Marrow

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

90

Lymph Node

+ + +

14

Deep Cervical, Lymphoma Malignant

X

1

Inguinal, Lymphoma Malignant

1

Mediastinal, Lymphoma Malignant

2

Pancreatic, Lymphoma Malignant

1

Lymph Node, Mandibular

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

90

Lymphoma Malignant

X

4

Lymph Node, Mesenteric

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

90

Lymphoma Malignant

X

5

Spleen

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

90

Hemangiosarcoma

1

Lymphoma Malignant

X

5

Thymus

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

86

Lymphoma Malignant

X

3

**INTEGUMENTARY SYSTEM**

Mammary Gland

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

90

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

+ .. Tissue 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 | 0         |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
|  | 7               | 4 | 7 | 6 | 5 | 6 | 4 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7         |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | 3               | 4 | 3 | 6 | 1 | 9 | 8 | 3 | 4 | 9 | 0 | 4 | 3 | 2 | 2 | 2 | 2 | 2         |
|  | 7               | 3 | 8 | 9 | 4 | 7 | 7 | 8 | 4 | 3 | 0 | 0 | 9 | 7 | 0 | 0 | 0 | 0         |
| <b>6.0W/kg(GSM)chr</b>                       | 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                                    | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         |
|  | 2               | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2         |
|  | 3               | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 9 | 0 |   |   |           |
|  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Adenocarcinoma                               |                 |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | <b>6</b>  |
| Adenoma                                      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Fibroadenoma                                 |                 | X |   | X | X | X | X |   |   | X | X | X | X |   |   |   |   | <b>32</b> |
| Fibroadenoma, Multiple                       |                 |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   | X | <b>30</b> |
| Myoepithelioma                               |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Skin   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Keratoacanthoma                              |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma                      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Fibroma                 |                 |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | <b>4</b>  |
| Subcutaneous Tissue, Fibrosarcoma            |                 |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>MUSCULOSKELETAL SYSTEM</b>                |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Bone   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle                              | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| <b>NERVOUS SYSTEM</b>                        |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Brain  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Carcinoma, Metastatic, Pituitary Gland       |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Glioma Malignant                             |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                           |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Meninges, Granular Cell Tumor Malignant      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Nerve Trigeminal                             | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Peripheral Nerve, Sciatic                    | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

\* .. 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 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>3<br>7      | 0<br>4<br>4<br>3      | 0<br>7<br>3<br>8      | 0<br>6<br>6<br>9      | 0<br>5<br>1<br>4      | 0<br>6<br>9<br>7      | 0<br>4<br>8<br>7      | 0<br>7<br>3<br>8      | 0<br>7<br>4<br>3      | 0<br>5<br>9<br>0      | 0<br>3<br>0<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>3<br>9      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>0      |          |
| ANIMAL ID   | 0<br>1<br>3<br>2<br>3 | 0<br>1<br>3<br>2<br>4 | 0<br>1<br>3<br>2<br>6 | 0<br>1<br>3<br>2<br>7 | 0<br>1<br>3<br>2<br>8 | 0<br>1<br>3<br>2<br>9 | 0<br>1<br>3<br>3<br>0 | 0<br>1<br>3<br>3<br>1 | 0<br>1<br>3<br>3<br>2 | 0<br>1<br>3<br>3<br>3 | 0<br>1<br>3<br>3<br>5 | 0<br>1<br>3<br>3<br>7 | 0<br>1<br>3<br>3<br>8 | 0<br>1<br>3<br>3<br>9 | 0<br>1<br>3<br>3<br>0 |          |
| Peripheral Nerve, Tibial                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89                    |          |
| Spinal Cord, Cervical<br>Lymphoma Malignant             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90<br>1               |          |
| Spinal Cord, Lumbar                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Spinal Cord, Thoracic                                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Trigeminal Ganglion                                     | M                     | +                     | +                     | +                     | I                     | +                     | I                     | M                     | M                     | +                     | +                     | +                     | +                     | +                     | 79                    |          |
| <b>RESPIRATORY SYSTEM</b>                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Lung  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Carcinoma, Metastatic, Thyroid Gland                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Lymphoma Malignant                                      |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5                     |          |
| Nose  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Trachea   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| Lymphoma Malignant                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>SPECIAL SENSES SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Eye   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| Lymphoma Malignant                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Harderian Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Zymbal's Gland  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |

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Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  |             | 7 | 4 | 7 | 6 | 5 | 6 | 4 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |  |
|  |             | 3 | 4 | 3 | 6 | 1 | 9 | 8 | 3 | 4 | 9 | 0 | 4 | 3 | 2 | 2 |  |
|  |             | 7 | 3 | 8 | 9 | 4 | 7 | 7 | 8 | 4 | 3 | 0 | 0 | 9 | 7 | 0 |  |
|  | 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 |  |
|  |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
|  |             | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |  |
|  |             | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 7 | 8 | 9 | 0 |  |
| <b>* TOTALS</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

Squamous Cell Papilloma

1

**URINARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Lymphoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Renal Tubule, Adenoma, Multiple   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Renal Tubule, Carcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urinary Bladder                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |

**SYSTEMIC LESIONS**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant  |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 5  |

\*\*\* END OF REPORT \*\*\*

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