

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:20:48
First Dose M/F: NA / 03/26/04
Lab: BAT

F1_R8_C_T

C Number:	C20304		
Lock Date:	10/12/2006		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25022 ACCK	25021 TSAC	25020 NATD
	25019 MSAC	25018 DACC	
Removal Date Range:	ALL		
Treatment Groups:	Include 001 0 UG/KG	Include 004 100 UG/KG	Include 005 220 UG/KG
	Include 006 460 UG/KG	Include 007 1000 UG/KG	Include 008 4600 UG/KG
Study Gender:	Female		
TDMSE Version:	2.0.0		

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF TEF evaluation (PCB 118)

FEMALE RATS

Organ

Adrenal Cortex

Adrenal Medulla

Bone Marrow

Brain

Clitoral Gland

Clitoral Gland: Duct

Esophagus: Muscularis

Eye: Retina

Harderian Gland

Kidney

Kidney: Transitional Epithelium

Liver

Liver: Bile Duct

Morphology

Atrophy

Hypertrophy

Vacuolization Cytoplasmic

Hyperplasia

Atrophy

Hyperplasia

Hemorrhage

Necrosis

Inflammation

Cyst

Inflammation

Atrophy

Infiltration Cellular Mononuclear Cell

Calculus Micro Observation Only

Mineralization

Nephropathy

Pigmentation

Hyperplasia

Basophilic Focus

Cholangiofibrosis

Clear Cell Focus

Eosinophilic Focus

Fatty Change Diffuse

Fatty Change Focal

Hyperplasia

Inflammation

Mixed Cell Focus

Necrosis

Pigmentation

Toxic Hepatopathy

Cyst

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Liver: Centrilobular	Hyperplasia
Liver: Hepatocyte	Degeneration
	Hypertrophy
	Multinucleated
Liver: Oval Cell	Hyperplasia
Lung	Metaplasia
Lung: Alveolar Epithelium	Hyperplasia
	Metaplasia Bronchiolar
Lymph Node, Mandibular	Hyperplasia
Mammary Gland	Hyperplasia
Mesentery: Artery	Inflammation Chronic
Nose	Inflammation
Nose: Respiratory Epithelium	Hyperplasia
Pancreas: Acinus	Vacuolization Cytoplasmic
Pancreas: Artery	Inflammation Chronic
Pancreas: Duct	Dilatation
	Inflammation
Skin	Inflammation
Spleen	Hematopoietic Cell Proliferation
	Pigmentation
Stomach, Forestomach	Hyperplasia
	Ulcer
Thymus	Atrophy
	Hemorrhage
Thymus: Artery	Inflammation Chronic
Thyroid Gland: Follicular Cell	Hypertrophy
Uterus	Metaplasia
Uterus: Endometrium	Hyperplasia Cystic

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Cortex
 Atrophy**

LESION RATES

OVERALL (a)	1/52 (2%)	0/52 (0%)	0/52 (0%)	2/51 (4%)	9/52 (17%)	35/49 (71%)
POLY-3 RATE (b)	1/35.12	0/35.70	0/37.83	2/41.85	9/40.13	35/41.86
POLY-3 PERCENT (g)	2.9%	0%	0%	4.8%	22.4%	83.6%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	2/30 (7%)	8/28 (29%)	24/25 (96%)
FIRST INCIDENCE	733 (T)	---	---	733 (T)	652	433

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.497N	P=0.485N	P=0.561	P=0.013*	P<0.001**
POLY 1.5	P<0.001**	P=0.501N	P=0.494N	P=0.534	P=0.011*	P<0.001**
POLY 6	P<0.001**	P=0.491N	P=0.473N	P=0.592	P=0.018*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.493	P=0.008**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.157N	P=0.157N	P=0.346	P=0.008**	P<0.001**

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Cortex
 Degeneration Cystic**

LESION RATES

OVERALL (a)	9/52 (17%)	8/52 (15%)	9/52 (17%)	12/51 (24%)	6/52 (12%)	8/49 (16%)
POLY-3 RATE (b)	9/36.70	8/37.27	9/38.25	12/42.35	6/40.55	8/40.74
POLY-3 PERCENT (g)	24.5%	21.5%	23.5%	28.3%	14.8%	19.6%
TERMINAL (d)	5/21 (24%)	4/20 (20%)	7/25 (28%)	9/30 (30%)	5/28 (18%)	2/25 (8%)
FIRST INCIDENCE	516	357	645	593	480	567

STATISTICAL TESTS

POLY 3	P=0.334N	P=0.486N	P=0.568N	P=0.449	P=0.213N	P=0.404N
POLY 1.5	P=0.396N	P=0.504N	P=0.593N	P=0.387	P=0.241N	P=0.476N
POLY 6	P=0.272N	P=0.469N	P=0.535N	P=0.520	P=0.187N	P=0.329N
COCH-ARM / FISHERS	P=0.473N	P=0.500N	P=0.602N	P=0.295	P=0.289N	P=0.554N
MAX-ISO-POLY-3	P=0.426N	P=0.377N	P=0.460N	P=0.359	P=0.149N	P=0.313N

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Cortex
 Hyperplasia**

LESION RATES

OVERALL (a)	14/52 (27%)	18/52 (35%)	13/52 (25%)	16/51 (31%)	13/52 (25%)	13/49 (27%)
POLY-3 RATE (b)	14/37.81	18/39.52	13/39.58	16/44.32	13/41.34	13/41.01
POLY-3 PERCENT (g)	37%	45.6%	32.8%	36.1%	31.5%	31.7%
TERMINAL (d)	8/21 (38%)	9/20 (45%)	6/25 (24%)	11/30 (37%)	9/28 (32%)	8/25 (32%)
FIRST INCIDENCE	495	298	545	484	531	484

STATISTICAL TESTS

POLY 3	P=0.270N	P=0.293	P=0.440N	P=0.557N	P=0.386N	P=0.396N
POLY 1.5	P=0.327N	P=0.262	P=0.481N	P=0.533	P=0.432N	P=0.481N
POLY 6	P=0.228N	P=0.331	P=0.379N	P=0.453N	P=0.334N	P=0.313N
COCH-ARM / FISHERS	P=0.403N	P=0.262	P=0.500N	P=0.390	P=0.500N	P=0.572N
MAX-ISO-POLY-3	P=0.357N	P=0.220	P=0.349N	P=0.467N	P=0.304N	P=0.316N

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Cortex
 Hypertrophy**

LESION RATES

OVERALL (a)	37/52 (71%)	37/52 (71%)	39/52 (75%)	43/51 (84%)	44/52 (85%)	34/49 (69%)
POLY-3 RATE (b)	37/42.07	37/41.76	39/44.00	43/45.42	44/47.87	34/43.84
POLY-3 PERCENT (g)	88%	88.6%	88.6%	94.7%	91.9%	77.6%
TERMINAL (d)	21/21 (100%)	20/20 (100%)	23/25 (92%)	30/30 (100%)	28/28 (100%)	22/25 (88%)
FIRST INCIDENCE	443	357	229	571	298	433

STATISTICAL TESTS

POLY 3	P=0.007N**	P=0.627	P=0.615	P=0.153	P=0.365	P=0.131N
POLY 1.5	P=0.056N	P=0.545	P=0.473	P=0.111	P=0.192	P=0.294N
POLY 6	P<0.001N**	P=0.718N	P=0.542N	P=0.287	P=0.639	P=0.044N*
COCH-ARM / FISHERS	P=0.279N	P=0.586N	P=0.413	P=0.085	P=0.078	P=0.509N
MAX-ISO-POLY-3	P=0.012N*	P=0.453	P=0.453	P=0.068	P=0.226	P=0.081N

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Cortex
 Necrosis**

LESION RATES

OVERALL (a)	0/52 (0%)	1/52 (2%)	2/52 (4%)	0/51 (0%)	3/52 (6%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	1/35.92	2/39.57	0/41.85	3/40.94	0/39.16
POLY-3 PERCENT (g)	0%	2.8%	5.1%	0%	7.3%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	674	197	---	480	---

STATISTICAL TESTS

POLY 3	P=0.368N	P=0.505	P=0.264	(e)	P=0.148	(e)
POLY 1.5	P=0.389N	P=0.499	P=0.251	(e)	P=0.135	(e)
POLY 6	P=0.348N	P=0.512	P=0.281	(e)	P=0.165	(e)
COCH-ARM / FISHERS	P=0.413N	P=0.500	P=0.248	(e)	P=0.121	(e)
MAX-ISO-POLY-3	P=0.321	P=0.163	P=0.101	(e)	P=0.063	(e)

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Cortex
 Vacuolization Cytoplasmic**

LESION RATES

OVERALL (a)	10/52 (19%)	12/52 (23%)	13/52 (25%)	12/51 (24%)	12/52 (23%)	18/49 (37%)
POLY-3 RATE (b)	10/37.43	12/37.37	13/40.26	12/43.12	12/42.12	18/40.99
POLY-3 PERCENT (g)	26.7%	32.1%	32.3%	27.8%	28.5%	43.9%
TERMINAL (d)	6/21 (29%)	6/20 (30%)	6/25 (24%)	7/30 (23%)	7/28 (25%)	9/25 (36%)
FIRST INCIDENCE	378	575	453	484	64	567

STATISTICAL TESTS

POLY 3	P=0.048*	P=0.397	P=0.385	P=0.556	P=0.530	P=0.083
POLY 1.5	P=0.036*	P=0.380	P=0.340	P=0.487	P=0.483	P=0.054
POLY 6	P=0.066	P=0.427	P=0.458	P=0.563N	P=0.591	P=0.133
COCH-ARM / FISHERS	P=0.027*	P=0.405	P=0.319	P=0.385	P=0.405	P=0.040*
MAX-ISO-POLY-3	P=0.088	P=0.301	P=0.300	P=0.458	P=0.432	P=0.062

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Medulla
 Hyperplasia**

LESION RATES

OVERALL (a)	11/52 (21%)	12/52 (23%)	14/52 (27%)	16/52 (31%)	10/52 (19%)	1/49 (2%)
POLY-3 RATE (b)	11/36.89	12/37.85	14/41.03	16/43.60	10/40.78	1/39.37
POLY-3 PERCENT (g)	29.8%	31.7%	34.1%	36.7%	24.5%	2.5%
TERMINAL (d)	6/21 (29%)	6/20 (30%)	6/25 (24%)	12/30 (40%)	7/28 (25%)	0/25 (0%)
FIRST INCIDENCE	561	503	393	575	484	677

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.530	P=0.435	P=0.338	P=0.393N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.499	P=0.372	P=0.272	P=0.435N	P=0.002N**
POLY 6	P<0.001N**	P=0.567	P=0.518	P=0.419	P=0.351N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.500	P=0.323	P=0.186	P=0.500N	P=0.003N**
MAX-ISO-POLY-3	P<0.001N**	P=0.429	P=0.347	P=0.271	P=0.306N	P<0.001N**

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Bone Marrow
 Atrophy**

LESION RATES

OVERALL (a)	4/52 (8%)	1/52 (2%)	1/52 (2%)	0/52 (0%)	1/52 (2%)	0/52 (0%)
POLY-3 RATE (b)	4/36.16	1/35.95	1/38.23	0/42.41	1/40.45	0/39.93
POLY-3 PERCENT (g)	11.1%	2.8%	2.6%	0%	2.5%	0%
TERMINAL (d)	2/21 (10%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	440	665	617	---	530	---

STATISTICAL TESTS

POLY 3	P=0.153N	P=0.177N	P=0.160N	P=0.042N*	P=0.145N	P=0.048N*
POLY 1.5	P=0.154N	P=0.183N	P=0.172N	P=0.049N*	P=0.159N	P=0.056N
POLY 6	P=0.155N	P=0.170N	P=0.144N	P=0.036N*	P=0.130N	P=0.040N*
COCH-ARM / FISHERS	P=0.153N	P=0.181N	P=0.181N	P=0.059N	P=0.181N	P=0.059N
MAX-ISO-POLY-3	P=0.007N**	P=0.082N	P=0.077N	P=0.018N*	P=0.074N	P=0.018N*

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Bone Marrow
 Hyperplasia**

LESION RATES

OVERALL (a)	31/52 (60%)	30/52 (58%)	30/52 (58%)	32/52 (62%)	34/52 (65%)	47/52 (90%)
POLY-3 RATE (b)	31/49.00	30/48.13	30/49.00	32/49.24	34/49.79	47/49.78
POLY-3 PERCENT (g)	63.3%	62.3%	61.2%	65%	68.3%	94.4%
TERMINAL (d)	6/21 (29%)	10/20 (50%)	9/25 (36%)	16/30 (53%)	15/28 (54%)	23/25 (92%)
FIRST INCIDENCE	291	28	183	238	64	65

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.546N	P=0.500N	P=0.513	P=0.376	P<0.001**
POLY 1.5	P<0.001**	P=0.509N	P=0.505N	P=0.523	P=0.377	P<0.001**
POLY 6	P<0.001**	P=0.559	P=0.494N	P=0.502	P=0.374	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.500	P=0.343	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.461N	P=0.416N	P=0.429	P=0.300	P<0.001**

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Brain
 Hemorrhage**

LESION RATES

OVERALL (a)	3/52 (6%)	0/52 (0%)	0/52 (0%)	1/52 (2%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	3/37.05	0/35.70	0/37.83	1/42.74	0/39.83	0/39.93
POLY-3 PERCENT (g)	8.1%	0%	0%	2.3%	0%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	119	---	---	643	---	---

STATISTICAL TESTS

POLY 3	P=0.258N	P=0.124N	P=0.114N	P=0.255N	P=0.105N	P=0.105N
POLY 1.5	P=0.259N	P=0.126N	P=0.119N	P=0.276N	P=0.112N	P=0.116N
POLY 6	P=0.258N	P=0.122N	P=0.107N	P=0.232N	P=0.098N	P=0.095N
COCH-ARM / FISHERS	P=0.267N	P=0.121N	P=0.121N	P=0.309N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.007N**	P=0.043N*	P=0.037N*	P=0.135N	P=0.037N*	P=0.037N*

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Brain
 Hydrocephalus**

LESION RATES

OVERALL (a)	1/52 (2%)	2/52 (4%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	1/35.24	2/36.18	1/38.15	0/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	2.8%	5.5%	2.6%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	701	665	645	---	---	---

STATISTICAL TESTS

POLY 3	P=0.268N	P=0.509	P=0.744N	P=0.463N	P=0.476N	P=0.475N
POLY 1.5	P=0.269N	P=0.499	P=0.754N	P=0.478N	P=0.486N	P=0.490N
POLY 6	P=0.268N	P=0.523	P=0.729N	P=0.447N	P=0.464N	P=0.459N
COCH-ARM / FISHERS	P=0.263N	P=0.500	P=0.752N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.181N	P=0.289	P=0.478N	P=0.157N	P=0.157N	P=0.157N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Brain
 Necrosis**

LESION RATES

OVERALL (a)	2/52 (4%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	2/35.79	0/35.70	0/37.83	0/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	5.6%	0%	0%	0%	0%	0%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	503	---	---	---	---	---

STATISTICAL TESTS

POLY 3	P=0.457N	P=0.237N	P=0.224N	P=0.201N	P=0.213N	P=0.213N
POLY 1.5	P=0.449N	P=0.241N	P=0.232N	P=0.215N	P=0.223N	P=0.228N
POLY 6	P=0.469N	P=0.232N	P=0.213N	P=0.186N	P=0.202N	P=0.198N
COCH-ARM / FISHERS	P=0.443N	P=0.248N	P=0.248N	P=0.248N	P=0.248N	P=0.248N
MAX-ISO-POLY-3	P=0.012N*	P=0.075N	P=0.075N	P=0.075N	P=0.075N	P=0.075N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Clitoral Gland
 Inflammation**

LESION RATES

OVERALL (a)	41/52 (79%)	38/52 (73%)	39/51 (76%)	40/52 (77%)	35/51 (69%)	13/49 (27%)
POLY-3 RATE (b)	41/48.75	38/47.05	39/44.81	40/50.50	35/46.28	13/41.75
POLY-3 PERCENT (g)	84.1%	80.8%	87%	79.2%	75.6%	31.1%
TERMINAL (d)	16/21 (76%)	16/20 (80%)	22/25 (88%)	23/30 (77%)	21/28 (75%)	7/25 (28%)
FIRST INCIDENCE	291	53	197	238	298	158

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.433N	P=0.454	P=0.352N	P=0.205N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.397N	P=0.543	P=0.388N	P=0.181N	P<0.001N**
POLY 6	P<0.001N**	P=0.474N	P=0.396	P=0.312N	P=0.257N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.323N	P=0.479N	P=0.500N	P=0.170N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.328N	P=0.338	P=0.262N	P=0.141N	P<0.001N**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Clitoral Gland: Duct
 Cyst**

LESION RATES

OVERALL (a)	26/52 (50%)	39/52 (75%)	31/51 (61%)	35/52 (67%)	37/51 (73%)	30/49 (61%)
POLY-3 RATE (b)	26/40.62	39/48.14	31/44.62	35/47.73	37/46.80	30/44.26
POLY-3 PERCENT (g)	64%	81%	69.5%	73.3%	79.1%	67.8%
TERMINAL (d)	14/21 (67%)	16/20 (80%)	15/25 (60%)	21/30 (70%)	21/28 (75%)	15/25 (60%)
FIRST INCIDENCE	440	53	183	457	407	158

STATISTICAL TESTS

POLY 3	P=0.298N	P=0.045*	P=0.374	P=0.227	P=0.078	P=0.443
POLY 1.5	P=0.379N	P=0.020*	P=0.276	P=0.131	P=0.036*	P=0.305
POLY 6	P=0.247N	P=0.094	P=0.510	P=0.380	P=0.166	P=0.590
COCH-ARM / FISHERS	P=0.480N	P=0.007**	P=0.183	P=0.055	P=0.016*	P=0.175
MAX-ISO-POLY-3	P=0.281	P=0.035*	P=0.296	P=0.178	P=0.059	P=0.357

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Esophagus: Muscularis
 Inflammation**

LESION RATES

OVERALL (a)	0/51 (0%)	3/52 (6%)	0/52 (0%)	1/52 (2%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	0/35.05	3/36.21	0/37.83	1/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	0%	8.3%	0%	2.4%	0%	0%
TERMINAL (d)	0/21 (0%)	2/20 (10%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	579	---	733 (T)	---	---

STATISTICAL TESTS

POLY 3	P=0.289N	P=0.123	(e)	P=0.538	(e)	(e)
POLY 1.5	P=0.298N	P=0.119	(e)	P=0.524	(e)	(e)
POLY 6	P=0.282N	P=0.129	(e)	P=0.555	(e)	(e)
COCH-ARM / FISHERS	P=0.298N	P=0.125	(e)	P=0.505	(e)	(e)
MAX-ISO-POLY-3	P=0.175N	P=0.041*	(e)	P=0.201	(e)	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Eye: Retina
 Atrophy

LESION RATES

OVERALL (a)	1/52 (2%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	1/52 (2%)	6/52 (12%)
POLY-3 RATE (b)	1/35.12	0/35.70	0/37.83	0/42.41	1/39.83	6/40.54
POLY-3 PERCENT (g)	2.9%	0%	0%	0%	2.5%	14.8%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	1/28 (4%)	3/25 (12%)
FIRST INCIDENCE	733 (T)	---	---	---	733 (T)	672

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.497N	P=0.485N	P=0.463N	P=0.733N	P=0.081
POLY 1.5	P<0.001**	P=0.501N	P=0.494N	P=0.477N	P=0.745N	P=0.065
POLY 6	P<0.001**	P=0.491N	P=0.473N	P=0.445N	P=0.717N	P=0.103
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.752N	P=0.056
MAX-ISO-POLY-3	P<0.001**	P=0.157N	P=0.157N	P=0.157N	P=0.466N	P=0.046*

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Harderian Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	0/52 (0%)	1/52 (2%)	2/52 (4%)	0/52 (0%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	0/35.12	1/35.70	2/38.59	0/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	0%	2.8%	5.2%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	1/25 (4%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	733 (T)	453	---	---	---

STATISTICAL TESTS

POLY 3	P=0.371N	P=0.503	P=0.258	(e)	(e)	(e)
POLY 1.5	P=0.379N	P=0.499	P=0.246	(e)	(e)	(e)
POLY 6	P=0.362N	P=0.509	P=0.274	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.380N	P=0.500	P=0.248	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.306N	P=0.161	P=0.095	(e)	(e)	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Harderian Gland
 Infiltration Cellular Mononuclear Cell**

LESION RATES

OVERALL (a)	7/52 (13%)	10/52 (19%)	3/52 (6%)	10/52 (19%)	4/52 (8%)	13/52 (25%)
POLY-3 RATE (b)	7/37.27	10/36.71	3/38.42	10/45.44	4/40.77	13/40.55
POLY-3 PERCENT (g)	18.8%	27.2%	7.8%	22%	9.8%	32.1%
TERMINAL (d)	3/21 (14%)	7/20 (35%)	1/25 (4%)	5/30 (17%)	2/28 (7%)	9/25 (36%)
FIRST INCIDENCE	503	503	652	300	586	652

STATISTICAL TESTS

POLY 3	P=0.038*	P=0.276	P=0.140N	P=0.465	P=0.207N	P=0.137
POLY 1.5	P=0.033*	P=0.273	P=0.152N	P=0.400	P=0.229N	P=0.110
POLY 6	P=0.042*	P=0.278	P=0.124N	P=0.539	P=0.184N	P=0.170
COCH-ARM / FISHERS	P=0.037*	P=0.298	P=0.159N	P=0.298	P=0.263N	P=0.106
MAX-ISO-POLY-3	P=0.068	P=0.191	P=0.080N	P=0.371	P=0.135N	P=0.096

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	13/52 (25%)	19/52 (37%)	14/52 (27%)	16/52 (31%)	19/52 (37%)	16/50 (32%)
POLY-3 RATE (b)	13/37.67	19/38.15	14/38.46	16/43.66	19/43.55	16/42.37
POLY-3 PERCENT (g)	34.5%	49.8%	36.4%	36.7%	43.6%	37.8%
TERMINAL (d)	7/21 (33%)	12/20 (60%)	11/25 (44%)	12/30 (40%)	12/28 (43%)	7/25 (28%)
FIRST INCIDENCE	440	265	617	582	407	459

STATISTICAL TESTS

POLY 3	P=0.468N	P=0.122	P=0.528	P=0.513	P=0.267	P=0.472
POLY 1.5	P=0.536	P=0.122	P=0.502	P=0.440	P=0.209	P=0.367
POLY 6	P=0.345N	P=0.115	P=0.564	P=0.595	P=0.337	P=0.590
COCH-ARM / FISHERS	P=0.433	P=0.144	P=0.500	P=0.331	P=0.144	P=0.286
MAX-ISO-POLY-3	P=0.537	P=0.080	P=0.430	P=0.425	P=0.210	P=0.387

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Heart: Endocardium
 Hyperplasia**

LESION RATES

OVERALL (a)	0/52 (0%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	1/52 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/35.12	1/35.70	0/37.83	0/42.41	1/39.83	2/39.26
POLY-3 PERCENT (g)	0%	2.8%	0%	0%	2.5%	5.1%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	0/25 (0%)	0/30 (0%)	1/28 (4%)	2/25 (8%)
FIRST INCIDENCE	---	733 (T)	---	---	733 (T)	733 (T)

STATISTICAL TESTS

POLY 3	P=0.095	P=0.503	(e)	(e)	P=0.525	P=0.262
POLY 1.5	P=0.089	P=0.499	(e)	(e)	P=0.515	P=0.244
POLY 6	P=0.101	P=0.509	(e)	(e)	P=0.538	P=0.284
COCH-ARM / FISHERS	P=0.086	P=0.500	(e)	(e)	P=0.500	P=0.238
MAX-ISO-POLY-3	P=0.109	P=0.161	(e)	(e)	P=0.187	P=0.101

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Intestine Large, Cecum: Artery
 Inflammation Chronic**

LESION RATES

OVERALL (a)	0/52 (0%)	0/51 (0%)	0/51 (0%)	1/52 (2%)	3/52 (6%)	1/48 (2%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.82	1/42.41	3/39.83	1/38.30
POLY-3 PERCENT (g)	0%	0%	0%	2.4%	7.5%	2.6%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	3/28 (11%)	1/25 (4%)
FIRST INCIDENCE	---	---	---	733 (T)	733 (T)	733 (T)

STATISTICAL TESTS

POLY 3	P=0.431	(e)	(e)	P=0.537	P=0.142	P=0.517
POLY 1.5	P=0.402	(e)	(e)	P=0.523	P=0.132	P=0.501
POLY 6	P=0.460	(e)	(e)	P=0.555	P=0.155	P=0.535
COCH-ARM / FISHERS	P=0.372	(e)	(e)	P=0.500	P=0.121	P=0.480
MAX-ISO-POLY-3	P=0.148	(e)	(e)	P=0.202	P=0.059	P=0.183

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Intestine Large, Colon: Artery
 Inflammation Chronic**

LESION RATES

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	1/52 (2%)	3/52 (6%)	1/48 (2%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	1/42.41	3/39.86	1/38.49
POLY-3 PERCENT (g)	0%	0%	0%	2.4%	7.5%	2.6%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	2/28 (7%)	1/25 (4%)
FIRST INCIDENCE	---	---	---	733 (T)	725	733 (T)

STATISTICAL TESTS

POLY 3	P=0.437	(e)	(e)	P=0.537	P=0.142	P=0.518
POLY 1.5	P=0.406	(e)	(e)	P=0.523	P=0.132	P=0.502
POLY 6	P=0.468	(e)	(e)	P=0.555	P=0.155	P=0.537
COCH-ARM / FISHERS	P=0.368	(e)	(e)	P=0.500	P=0.121	P=0.480
MAX-ISO-POLY-3	P=0.148	(e)	(e)	P=0.202	P=0.059	P=0.184

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Intestine Large, Rectum
 Parasite Metazoan**

LESION RATES

OVERALL (a)	2/52 (4%)	2/52 (4%)	3/52 (6%)	2/52 (4%)	1/52 (2%)	3/50 (6%)
POLY-3 RATE (b)	2/35.36	2/35.98	3/38.42	2/42.69	1/40.54	3/39.93
POLY-3 PERCENT (g)	5.7%	5.6%	7.8%	4.7%	2.5%	7.5%
TERMINAL (d)	1/21 (5%)	1/20 (5%)	2/25 (8%)	1/30 (3%)	0/28 (0%)	3/25 (12%)
FIRST INCIDENCE	669	658	545	658	484	733 (T)

STATISTICAL TESTS

POLY 3	P=0.459	P=0.689N	P=0.538	P=0.624N	P=0.452N	P=0.555
POLY 1.5	P=0.439	P=0.692	P=0.516	P=0.652N	P=0.472N	P=0.521
POLY 6	P=0.475	P=0.680N	P=0.567	P=0.591N	P=0.430N	P=0.591
COCH-ARM / FISHERS	P=0.412	P=0.691N	P=0.500	P=0.691N	P=0.500N	P=0.481
MAX-ISO-POLY-3	P=0.618	P=0.493N	P=0.362	P=0.430N	P=0.253N	P=0.382

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Intestine Large, Rectum: Artery
 Inflammation Chronic**

LESION RATES

OVERALL (a)	1/52 (2%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	5/52 (10%)	1/50 (2%)
POLY-3 RATE (b)	1/35.12	0/35.70	0/37.83	2/42.41	5/39.86	1/39.93
POLY-3 PERCENT (g)	2.9%	0%	0%	4.7%	12.5%	2.5%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	2/30 (7%)	4/28 (14%)	1/25 (4%)
FIRST INCIDENCE	733 (T)	---	---	733 (T)	725	733 (T)

STATISTICAL TESTS

POLY 3	P=0.638	P=0.497N	P=0.485N	P=0.565	P=0.131	P=0.732N
POLY 1.5	P=0.604	P=0.501N	P=0.494N	P=0.540	P=0.118	P=0.750N
POLY 6	P=0.644N	P=0.491N	P=0.473N	P=0.595	P=0.149	P=0.711N
COCH-ARM / FISHERS	P=0.554	P=0.500N	P=0.500N	P=0.500	P=0.102	P=0.743
MAX-ISO-POLY-3	P=0.155	P=0.157N	P=0.157N	P=0.350	P=0.072	P=0.466N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Kidney
 Calculus Micro Observation Only**

LESION RATES

OVERALL (a)	3/52 (6%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	1/52 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/35.76	0/35.70	0/37.83	2/42.42	1/40.32	0/39.93
POLY-3 PERCENT (g)	8.4%	0%	0%	4.7%	2.5%	0%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	624	---	---	731	586	---

STATISTICAL TESTS

POLY 3	P=0.229N	P=0.117N	P=0.108N	P=0.423N	P=0.262N	P=0.099N
POLY 1.5	P=0.238N	P=0.121N	P=0.114N	P=0.452N	P=0.280N	P=0.111N
POLY 6	P=0.221N	P=0.114N	P=0.100N	P=0.391N	P=0.244N	P=0.089N
COCH-ARM / FISHERS	P=0.257N	P=0.121N	P=0.121N	P=0.500N	P=0.309N	P=0.129N
MAX-ISO-POLY-3	P=0.028N*	P=0.037N*	P=0.037N*	P=0.272N	P=0.137N	P=0.038N*

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Kidney
 Cyst**

LESION RATES

OVERALL (a)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/35.12	2/35.81	0/37.83	0/42.41	0/39.83	1/40.16
POLY-3 PERCENT (g)	0%	5.6%	0%	0%	0%	2.5%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	706	---	---	---	672

STATISTICAL TESTS

POLY 3	P=0.531	P=0.240	(e)	(e)	(e)	P=0.527
POLY 1.5	P=0.523	P=0.235	(e)	(e)	(e)	P=0.510
POLY 6	P=0.538	P=0.247	(e)	(e)	(e)	P=0.544
COCH-ARM / FISHERS	P=0.518	P=0.248	(e)	(e)	(e)	P=0.490
MAX-ISO-POLY-3	P=0.351	P=0.079	(e)	(e)	(e)	P=0.192

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Kidney
 Mineralization**

LESION RATES

OVERALL (a)	25/52 (48%)	28/52 (54%)	30/52 (58%)	18/52 (35%)	22/52 (42%)	25/50 (50%)
POLY-3 RATE (b)	25/43.21	28/43.56	30/43.47	18/47.35	22/44.02	25/44.40
POLY-3 PERCENT (g)	57.9%	64.3%	69%	38%	50%	56.3%
TERMINAL (d)	10/21 (48%)	11/20 (55%)	15/25 (60%)	10/30 (33%)	12/28 (43%)	15/25 (60%)
FIRST INCIDENCE	320	265	183	238	298	158

STATISTICAL TESTS

POLY 3	P=0.474N	P=0.341	P=0.186	P=0.041N*	P=0.294N	P=0.528N
POLY 1.5	P=0.516N	P=0.320	P=0.175	P=0.058N	P=0.312N	P=0.581
POLY 6	P=0.461N	P=0.367	P=0.234	P=0.030N*	P=0.278N	P=0.487N
COCH-ARM / FISHERS	P=0.532	P=0.348	P=0.216	P=0.116N	P=0.347N	P=0.502
MAX-ISO-POLY-3	P=0.116N	P=0.262	P=0.130	P=0.031N*	P=0.224N	P=0.441N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	42/52 (81%)	40/52 (77%)	46/52 (88%)	44/52 (85%)	44/52 (85%)	46/50 (92%)
POLY-3 RATE (b)	42/46.10	40/44.03	46/48.94	44/49.86	44/49.27	46/46.96
POLY-3 PERCENT (g)	91.1%	90.8%	94%	88.2%	89.3%	98%
TERMINAL (d)	20/21 (95%)	19/20 (95%)	23/25 (92%)	26/30 (87%)	25/28 (89%)	25/25 (100%)
FIRST INCIDENCE	378	265	229	300	298	158

STATISTICAL TESTS

POLY 3	P=0.076	P=0.652N	P=0.437	P=0.446N	P=0.522N	P=0.108
POLY 1.5	P=0.055	P=0.575N	P=0.275	P=0.582N	P=0.628N	P=0.066
POLY 6	P=0.096	P=0.685	P=0.660	P=0.301N	P=0.436N	P=0.182
COCH-ARM / FISHERS	P=0.063	P=0.405N	P=0.208	P=0.398	P=0.398	P=0.086
MAX-ISO-POLY-3	P=0.141	P=0.478N	P=0.282	P=0.316N	P=0.374N	P=0.038*

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Kidney
 Pigmentation**

LESION RATES

OVERALL (a)	2/52 (4%)	3/52 (6%)	3/52 (6%)	4/52 (8%)	6/52 (12%)	42/50 (84%)
POLY-3 RATE (b)	2/35.50	3/36.38	3/37.98	4/42.41	6/40.74	42/44.04
POLY-3 PERCENT (g)	5.6%	8.3%	7.9%	9.4%	14.7%	95.4%
TERMINAL (d)	1/21 (5%)	1/20 (5%)	2/25 (8%)	4/30 (13%)	4/28 (14%)	24/25 (96%)
FIRST INCIDENCE	624	575	694	733 (T)	487	567

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.511	P=0.531	P=0.422	P=0.179	P<0.001**
POLY 1.5	P<0.001**	P=0.499	P=0.512	P=0.388	P=0.159	P<0.001**
POLY 6	P<0.001**	P=0.527	P=0.556	P=0.461	P=0.206	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500	P=0.339	P=0.135	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.333	P=0.354	P=0.284	P=0.112	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Kidney: Pelvis
 Inflammation**

LESION RATES

OVERALL (a)	0/52 (0%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/35.12	1/35.86	0/37.83	0/42.41	2/40.33	2/40.09
POLY-3 PERCENT (g)	0%	2.8%	0%	0%	5%	5%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	1/25 (4%)
FIRST INCIDENCE	---	692	---	---	652	692

STATISTICAL TESTS

POLY 3	P=0.134	P=0.504	(e)	(e)	P=0.269	P=0.268
POLY 1.5	P=0.123	P=0.499	(e)	(e)	P=0.255	P=0.248
POLY 6	P=0.144	P=0.511	(e)	(e)	P=0.287	P=0.290
COCH-ARM / FISHERS	P=0.112	P=0.500	(e)	(e)	P=0.248	P=0.238
MAX-ISO-POLY-3	P=0.157	P=0.162	(e)	(e)	P=0.105	P=0.106

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Kidney: Transitional Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	3/52 (6%)	3/50 (6%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	0/42.41	3/40.03	3/40.09
POLY-3 PERCENT (g)	0%	0%	0%	0%	7.5%	7.5%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	2/28 (7%)	2/25 (8%)
FIRST INCIDENCE	---	---	---	---	680	692

STATISTICAL TESTS

POLY 3	P=0.016*	(e)	(e)	(e)	P=0.143	P=0.144
POLY 1.5	P=0.013*	(e)	(e)	(e)	P=0.132	P=0.128
POLY 6	P=0.018*	(e)	(e)	(e)	P=0.157	P=0.163
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	(e)	P=0.121	P=0.114
MAX-ISO-POLY-3	P=0.028*	(e)	(e)	(e)	P=0.059	P=0.061

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
 Angiectasis**

LESION RATES

OVERALL (a)	0/52 (0%)	1/51 (2%)	1/52 (2%)	2/52 (4%)	0/52 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/35.12	1/35.95	1/37.83	2/42.41	0/39.83	2/39.26
POLY-3 PERCENT (g)	0%	2.8%	2.6%	4.7%	0%	5.1%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	2/30 (7%)	0/28 (0%)	2/25 (8%)
FIRST INCIDENCE	---	665	733 (T)	733 (T)	---	733 (T)

STATISTICAL TESTS

POLY 3	P=0.305	P=0.505	P=0.515	P=0.281	(e)	P=0.263
POLY 1.5	P=0.285	P=0.499	P=0.506	P=0.263	(e)	P=0.243
POLY 6	P=0.326	P=0.512	P=0.527	P=0.304	(e)	P=0.285
COCH-ARM / FISHERS	P=0.262	P=0.495	P=0.500	P=0.248	(e)	P=0.233
MAX-ISO-POLY-3	P=0.188	P=0.164	P=0.176	P=0.117	(e)	P=0.102

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	15/52 (29%)	7/51 (14%)	11/52 (21%)	6/52 (12%)	9/52 (17%)	1/49 (2%)
POLY-3 RATE (b)	15/38.72	7/36.49	11/39.42	6/42.41	9/42.03	1/39.26
POLY-3 PERCENT (g)	38.7%	19.2%	27.9%	14.2%	21.4%	2.6%
TERMINAL (d)	7/21 (33%)	5/20 (25%)	6/25 (24%)	6/30 (20%)	4/28 (14%)	1/25 (4%)
FIRST INCIDENCE	503	575	575	733 (T)	530	733 (T)

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.048N*	P=0.214N	P=0.009N**	P=0.068N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.049N*	P=0.237N	P=0.013N*	P=0.086N	P<0.001N**
POLY 6	P<0.001N**	P=0.050N*	P=0.187N	P=0.007N**	P=0.053N	P<0.001N**
COCH-ARM / FISHERS	P=0.002N**	P=0.051N	P=0.249N	P=0.024N*	P=0.122N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.030N*	P=0.151N	P=0.006N**	P=0.047N*	P<0.001N**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
 Cholangiofibrosis**

LESION RATES

OVERALL (a)	0/52 (0%)	2/51 (4%)	2/52 (4%)	3/52 (6%)	2/52 (4%)	22/49 (45%)
POLY-3 RATE (b)	0/35.12	2/36.51	2/38.57	3/42.70	2/40.75	22/42.19
POLY-3 PERCENT (g)	0%	5.5%	5.2%	7%	4.9%	52.1%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	2/30 (7%)	0/28 (0%)	11/25 (44%)
FIRST INCIDENCE	---	484	469	655	531	433

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.245	P=0.258	P=0.157	P=0.271	P<0.001**
POLY 1.5	P<0.001**	P=0.238	P=0.246	P=0.141	P=0.256	P<0.001**
POLY 6	P<0.001**	P=0.254	P=0.274	P=0.179	P=0.291	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.243	P=0.248	P=0.121	P=0.248	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.084	P=0.095	P=0.072	P=0.107	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Clear Cell Focus

LESION RATES

OVERALL (a)	15/52 (29%)	10/51 (20%)	7/52 (13%)	14/52 (27%)	5/52 (10%)	0/49 (0%)
POLY-3 RATE (b)	15/38.48	10/36.65	7/38.96	14/43.97	5/40.57	0/39.26
POLY-3 PERCENT (g)	39%	27.3%	18%	31.8%	12.3%	0%
TERMINAL (d)	9/21 (43%)	7/20 (35%)	5/25 (20%)	11/30 (37%)	3/28 (11%)	0/25 (0%)
FIRST INCIDENCE	495	575	183	412	602	---

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.197N	P=0.031N*	P=0.325N	P=0.005N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.200N	P=0.037N*	P=0.386N	P=0.007N**	P<0.001N**
POLY 6	P<0.001N**	P=0.194N	P=0.026N*	P=0.268N	P=0.003N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.194N	P=0.046N*	P=0.500N	P=0.012N*	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.138N	P=0.017N*	P=0.259N	P=0.003N**	P<0.001N**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Degeneration Cystic

LESION RATES

OVERALL (a)	1/52 (2%)	0/51 (0%)	1/52 (2%)	0/52 (0%)	1/52 (2%)	2/49 (4%)
POLY-3 RATE (b)	1/35.63	0/35.70	1/37.83	0/42.41	1/40.32	2/39.82
POLY-3 PERCENT (g)	2.8%	0%	2.6%	0%	2.5%	5%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	575	---	733 (T)	---	586	617

STATISTICAL TESTS

POLY 3	P=0.185	P=0.500N	P=0.748N	P=0.465N	P=0.733N	P=0.539
POLY 1.5	P=0.174	P=0.503N	P=0.756N	P=0.479N	P=0.745N	P=0.510
POLY 6	P=0.196	P=0.496N	P=0.737N	P=0.450N	P=0.718N	P=0.570
COCH-ARM / FISHERS	P=0.163	P=0.505N	P=0.752N	P=0.500N	P=0.752N	P=0.478
MAX-ISO-POLY-3	P=0.283	P=0.158N	P=0.483N	P=0.157N	P=0.466N	P=0.324

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
 Eosinophilic Focus**

LESION RATES

OVERALL (a)	5/52 (10%)	8/51 (16%)	9/52 (17%)	15/52 (29%)	25/52 (48%)	41/49 (84%)
POLY-3 RATE (b)	5/36.65	8/36.30	9/39.40	15/44.27	25/45.21	41/45.25
POLY-3 PERCENT (g)	13.6%	22%	22.8%	33.9%	55.3%	90.6%
TERMINAL (d)	1/21 (5%)	5/20 (25%)	5/25 (20%)	7/30 (23%)	13/28 (46%)	23/25 (92%)
FIRST INCIDENCE	495	658	412	571	421	433

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.262	P=0.229	P=0.030*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.258	P=0.207	P=0.020*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.267	P=0.258	P=0.047*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.265	P=0.195	P=0.012*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.172	P=0.156	P=0.024*	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Fatty Change Diffuse

LESION RATES

OVERALL (a)	1/52 (2%)	2/51 (4%)	1/52 (2%)	9/52 (17%)	39/52 (75%)	48/49 (98%)
POLY-3 RATE (b)	1/35.28	2/36.27	1/38.23	9/43.97	39/46.53	48/48.86
POLY-3 PERCENT (g)	2.8%	5.5%	2.6%	20.5%	83.8%	98.2%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	3/30 (10%)	24/28 (86%)	25/25 (100%)
FIRST INCIDENCE	692	571	617	582	298	54

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.510	P=0.743N	P=0.021*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.754N	P=0.014*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.522	P=0.729N	P=0.033*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.493	P=0.752N	P=0.008**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.291	P=0.477N	P=0.015*	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Fatty Change Focal

LESION RATES

OVERALL (a)	2/52 (4%)	1/51 (2%)	6/52 (12%)	4/52 (8%)	3/52 (6%)	0/49 (0%)
POLY-3 RATE (b)	2/35.50	1/35.98	6/38.21	4/42.93	3/40.48	0/39.26
POLY-3 PERCENT (g)	5.6%	2.8%	15.7%	9.3%	7.4%	0%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	3/25 (12%)	3/30 (10%)	1/28 (4%)	0/25 (0%)
FIRST INCIDENCE	624	658	694	575	530	---

STATISTICAL TESTS

POLY 3	P=0.057N	P=0.495N	P=0.154	P=0.428	P=0.560	P=0.215N
POLY 1.5	P=0.069N	P=0.503N	P=0.140	P=0.392	P=0.535	P=0.231N
POLY 6	P=0.048N*	P=0.486N	P=0.175	P=0.471	P=0.589	P=0.199N
COCH-ARM / FISHERS	P=0.086N	P=0.507N	P=0.135	P=0.339	P=0.500	P=0.263N
MAX-ISO-POLY-3	P=0.105N	P=0.277N	P=0.088	P=0.290	P=0.385	P=0.078N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	19/52 (37%)	20/51 (39%)	21/52 (40%)	28/52 (54%)	19/52 (37%)	21/49 (43%)
POLY-3 RATE (b)	19/43.02	20/41.21	21/43.43	28/48.03	19/43.61	21/41.61
POLY-3 PERCENT (g)	44.2%	48.5%	48.4%	58.3%	43.6%	50.5%
TERMINAL (d)	3/21 (14%)	9/20 (45%)	9/25 (36%)	17/30 (57%)	11/28 (39%)	15/25 (60%)
FIRST INCIDENCE	378	341	183	300	484	433

STATISTICAL TESTS

POLY 3	P=0.495	P=0.426	P=0.429	P=0.122	P=0.565N	P=0.355
POLY 1.5	P=0.469	P=0.440	P=0.428	P=0.099	P=0.567N	P=0.335
POLY 6	P=0.491	P=0.391	P=0.424	P=0.138	P=0.577N	P=0.345
COCH-ARM / FISHERS	P=0.465	P=0.469	P=0.420	P=0.057	P=0.581N	P=0.328
MAX-ISO-POLY-3	P=0.479	P=0.343	P=0.345	P=0.095	P=0.477N	P=0.277

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	0/52 (0%)	1/51 (2%)	2/52 (4%)	1/52 (2%)	0/52 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	1/35.70	2/37.98	1/42.44	0/39.83	0/39.26
POLY-3 PERCENT (g)	0%	2.8%	5.3%	2.4%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	1/25 (4%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	733 (T)	694	727	---	---

STATISTICAL TESTS

POLY 3	P=0.309N	P=0.503	P=0.254	P=0.537	(e)	(e)
POLY 1.5	P=0.323N	P=0.499	P=0.244	P=0.523	(e)	(e)
POLY 6	P=0.294N	P=0.509	P=0.269	P=0.555	(e)	(e)
COCH-ARM / FISHERS	P=0.337N	P=0.495	P=0.248	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.371N	P=0.162	P=0.092	P=0.202	(e)	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
Hyperplasia**

LESION RATES

OVERALL (a)	0/52 (0%)	0/51 (0%)	0/52 (0%)	0/52 (0%)	12/52 (23%)	43/49 (88%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	0/42.41	12/41.24	43/44.40
POLY-3 PERCENT (g)	0%	0%	0%	0%	29.1%	96.8%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	8/28 (29%)	25/25 (100%)
FIRST INCIDENCE	---	---	---	---	593	433

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
 Inflammation**

LESION RATES

OVERALL (a)	21/52 (40%)	30/51 (59%)	35/52 (67%)	36/52 (69%)	43/52 (83%)	44/49 (90%)
POLY-3 RATE (b)	21/39.27	30/41.86	35/43.46	36/46.02	43/48.62	44/48.47
POLY-3 PERCENT (g)	53.5%	71.7%	80.5%	78.2%	88.4%	90.8%
TERMINAL (d)	14/21 (67%)	14/20 (70%)	22/25 (88%)	25/30 (83%)	26/28 (93%)	22/25 (88%)
FIRST INCIDENCE	320	341	393	457	64	54

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.056	P=0.004**	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.041*	P=0.002**	P=0.004**	P<0.001**	P<0.001**
POLY 6	P=0.007**	P=0.097	P=0.009**	P=0.023*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.047*	P=0.005**	P=0.003**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.038*	P=0.003**	P=0.007**	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Mixed Cell Focus

LESION RATES

OVERALL (a)	21/52 (40%)	19/51 (37%)	29/52 (56%)	36/52 (69%)	31/52 (60%)	7/49 (14%)
POLY-3 RATE (b)	21/36.44	19/37.91	29/41.50	36/45.96	31/44.39	7/39.32
POLY-3 PERCENT (g)	57.6%	50.1%	69.9%	78.3%	69.8%	17.8%
TERMINAL (d)	17/21 (81%)	13/20 (65%)	19/25 (76%)	26/30 (87%)	22/28 (79%)	6/25 (24%)
FIRST INCIDENCE	575	495	183	412	484	718

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.328N	P=0.166	P=0.024*	P=0.163	P<0.001N**
POLY 1.5	P<0.001N**	P=0.397N	P=0.106	P=0.008**	P=0.083	P<0.001N**
POLY 6	P<0.001N**	P=0.242N	P=0.313	P=0.090	P=0.338	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.451N	P=0.085	P=0.003**	P=0.039*	P=0.003N**
MAX-ISO-POLY-3	P<0.001N**	P=0.248N	P=0.123	P=0.021*	P=0.129	P<0.001N**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver
 Necrosis

LESION RATES

OVERALL (a)	1/52 (2%)	2/51 (4%)	1/52 (2%)	2/52 (4%)	20/52 (38%)	22/49 (45%)
POLY-3 RATE (b)	1/35.59	2/36.46	1/38.62	2/42.92	20/45.61	22/44.52
POLY-3 PERCENT (g)	2.8%	5.5%	2.6%	4.7%	43.9%	49.4%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	8/28 (29%)	11/25 (44%)
FIRST INCIDENCE	593	482	433	582	298	54

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.508	P=0.743N	P=0.565	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.499	P=0.753N	P=0.540	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.519	P=0.730N	P=0.594	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.493	P=0.752N	P=0.500	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.290	P=0.477N	P=0.349	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
 Pigmentation**

LESION RATES

OVERALL (a)	1/52 (2%)	5/51 (10%)	12/52 (23%)	41/52 (79%)	50/52 (96%)	48/49 (98%)
POLY-3 RATE (b)	1/35.63	5/36.17	12/39.16	41/47.28	50/50.07	48/48.00
POLY-3 PERCENT (g)	2.8%	13.8%	30.6%	86.7%	99.9%	100%
TERMINAL (d)	0/21 (0%)	2/20 (10%)	8/25 (32%)	27/30 (90%)	28/28 (100%)	25/25 (100%)
FIRST INCIDENCE	575	637	589	300	407	54

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.101	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.098	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.107	P=0.002**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.098	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.046*	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver
 Toxic Hepatopathy**

LESION RATES

OVERALL (a)	0/52 (0%)	0/51 (0%)	3/52 (6%)	14/52 (27%)	33/52 (63%)	46/49 (94%)
POLY-3 RATE (b)	0/35.12	0/35.70	3/37.98	14/44.40	33/43.17	46/47.00
POLY-3 PERCENT (g)	0%	0%	7.9%	31.5%	76.4%	97.9%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	2/25 (8%)	7/30 (23%)	23/28 (82%)	24/25 (96%)
FIRST INCIDENCE	---	---	694	571	530	158

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	P=0.132	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.124	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.145	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.121	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.050*	P<0.001**	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver: Bile Duct
 Cyst

LESION RATES

OVERALL (a)	2/52 (4%)	3/51 (6%)	5/52 (10%)	6/52 (12%)	6/52 (12%)	21/49 (43%)
POLY-3 RATE (b)	2/35.12	3/36.15	5/37.98	6/42.79	6/40.13	21/40.86
POLY-3 PERCENT (g)	5.7%	8.3%	13.2%	14%	15%	51.4%
TERMINAL (d)	2/21 (10%)	1/20 (5%)	4/25 (16%)	5/30 (17%)	5/28 (18%)	16/25 (64%)
FIRST INCIDENCE	733 (T)	637	694	627	652	433

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.513	P=0.246	P=0.205	P=0.177	P<0.001**
POLY 1.5	P<0.001**	P=0.499	P=0.228	P=0.174	P=0.157	P<0.001**
POLY 6	P<0.001**	P=0.532	P=0.274	P=0.247	P=0.205	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.491	P=0.218	P=0.135	P=0.135	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.336	P=0.147	P=0.135	P=0.110	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver: Bile Duct
 Fibrosis**

LESION RATES

OVERALL (a)	2/52 (4%)	1/51 (2%)	0/52 (0%)	3/52 (6%)	2/52 (4%)	0/49 (0%)
POLY-3 RATE (b)	2/35.12	1/35.92	0/37.83	3/42.41	2/40.04	0/39.26
POLY-3 PERCENT (g)	5.7%	2.8%	0%	7.1%	5%	0%
TERMINAL (d)	2/21 (10%)	0/20 (0%)	0/25 (0%)	3/30 (10%)	1/28 (4%)	0/25 (0%)
FIRST INCIDENCE	733 (T)	674	---	733 (T)	678	---

STATISTICAL TESTS

POLY 3	P=0.209N	P=0.492N	P=0.220N	P=0.585	P=0.647N	P=0.213N
POLY 1.5	P=0.226N	P=0.501N	P=0.230N	P=0.552	P=0.667N	P=0.230N
POLY 6	P=0.194N	P=0.480N	P=0.207N	P=0.624	P=0.620N	P=0.195N
COCH-ARM / FISHERS	P=0.251N	P=0.507N	P=0.248N	P=0.500	P=0.691N	P=0.263N
MAX-ISO-POLY-3	P=0.198N	P=0.275N	P=0.075N	P=0.412	P=0.450N	P=0.078N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	5/52 (10%)	6/51 (12%)	7/52 (13%)	8/52 (15%)	21/52 (40%)	40/49 (82%)
POLY-3 RATE (b)	5/35.36	6/35.95	7/37.83	8/42.93	21/41.34	40/43.82
POLY-3 PERCENT (g)	14.1%	16.7%	18.5%	18.6%	50.8%	91.3%
TERMINAL (d)	4/21 (19%)	5/20 (25%)	7/25 (28%)	6/30 (20%)	17/28 (61%)	24/25 (96%)
FIRST INCIDENCE	669	665	733 (T)	582	586	459

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.512	P=0.425	P=0.411	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.495	P=0.397	P=0.355	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.533	P=0.465	P=0.479	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.486	P=0.380	P=0.277	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.383	P=0.312	P=0.314	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver: Centrilobular
 Degeneration**

LESION RATES

OVERALL (a)	1/52 (2%)	2/51 (4%)	4/52 (8%)	3/52 (6%)	6/52 (12%)	1/49 (2%)
POLY-3 RATE (b)	1/35.59	2/36.04	4/39.07	3/43.87	6/41.73	1/39.48
POLY-3 PERCENT (g)	2.8%	5.6%	10.2%	6.8%	14.4%	2.5%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	1/25 (4%)	1/30 (3%)	2/28 (7%)	0/25 (0%)
FIRST INCIDENCE	593	637	589	300	551	673

STATISTICAL TESTS

POLY 3	P=0.266N	P=0.504	P=0.206	P=0.383	P=0.084	P=0.737N
POLY 1.5	P=0.298N	P=0.497	P=0.190	P=0.353	P=0.071	P=0.755N
POLY 6	P=0.237N	P=0.514	P=0.231	P=0.418	P=0.104	P=0.717N
COCH-ARM / FISHERS	P=0.336N	P=0.493	P=0.181	P=0.309	P=0.056	P=0.737
MAX-ISO-POLY-3	P=0.341	P=0.285	P=0.109	P=0.230	P=0.050*	P=0.472N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver: Hepatocyte
 Hypertrophy

LESION RATES

OVERALL (a)	0/52 (0%)	12/51 (24%)	15/52 (29%)	20/52 (38%)	44/52 (85%)	48/49 (98%)
POLY-3 RATE (b)	0/35.12	12/38.34	15/43.07	20/46.36	44/48.68	48/48.00
POLY-3 PERCENT (g)	0%	31.3%	34.8%	43.1%	90.4%	100%
TERMINAL (d)	0/21 (0%)	5/20 (25%)	4/25 (16%)	10/30 (33%)	25/28 (89%)	25/25 (100%)
FIRST INCIDENCE	---	341	183	300	298	54

STATISTICAL TESTS

POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver: Hepatocyte
 Multinucleated**

LESION RATES

OVERALL (a)	0/52 (0%)	1/51 (2%)	3/52 (6%)	21/52 (40%)	40/52 (77%)	43/49 (88%)
POLY-3 RATE (b)	0/35.12	1/35.70	3/37.93	21/45.38	40/46.95	43/47.35
POLY-3 PERCENT (g)	0%	2.8%	7.9%	46.3%	85.2%	90.8%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	2/25 (8%)	12/30 (40%)	23/28 (82%)	23/25 (92%)
FIRST INCIDENCE	---	733 (T)	707	457	421	54

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.503	P=0.132	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.499	P=0.124	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.509	P=0.144	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.495	P=0.121	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.162	P=0.050*	P<0.001**	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver: Oval Cell
 Hyperplasia

LESION RATES

OVERALL (a)	0/52 (0%)	12/51 (24%)	9/52 (17%)	29/52 (56%)	40/52 (77%)	46/49 (94%)
POLY-3 RATE (b)	0/35.12	12/36.45	9/38.57	29/44.44	40/44.34	46/46.01
POLY-3 PERCENT (g)	0%	32.9%	23.3%	65.3%	90.2%	100%
TERMINAL (d)	0/21 (0%)	9/20 (45%)	6/25 (24%)	20/30 (67%)	27/28 (96%)	25/25 (100%)
FIRST INCIDENCE	---	658	645	571	480	433

STATISTICAL TESTS

POLY 3	P<0.001**	P<0.001**	P=0.002**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P=0.002**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.003**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Lung
 Inflammation**

LESION RATES

OVERALL (a)	5/51 (10%)	3/52 (6%)	5/52 (10%)	3/52 (6%)	2/52 (4%)	2/50 (4%)
POLY-3 RATE (b)	5/35.33	3/36.75	5/39.75	3/43.14	2/40.16	2/39.35
POLY-3 PERCENT (g)	14.2%	8.2%	12.6%	7%	5%	5.1%
TERMINAL (d)	4/21 (19%)	1/20 (5%)	1/25 (4%)	1/30 (3%)	1/28 (4%)	1/25 (4%)
FIRST INCIDENCE	658	265	229	575	642	711

STATISTICAL TESTS

POLY 3	P=0.206N	P=0.332N	P=0.556N	P=0.252N	P=0.165N	P=0.172N
POLY 1.5	P=0.221N	P=0.346N	P=0.589N	P=0.289N	P=0.184N	P=0.201N
POLY 6	P=0.193N	P=0.315N	P=0.508N	P=0.210N	P=0.143N	P=0.143N
COCH-ARM / FISHERS	P=0.230N	P=0.347N	P=0.617N	P=0.347N	P=0.210N	P=0.226N
MAX-ISO-POLY-3	P=0.175N	P=0.211N	P=0.424N	P=0.169N	P=0.096N	P=0.101N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Lung
 Metaplasia**

LESION RATES

OVERALL (a)	1/51 (2%)	0/52 (0%)	0/52 (0%)	1/52 (2%)	1/52 (2%)	13/50 (26%)
POLY-3 RATE (b)	1/35.05	0/35.70	0/37.83	1/42.41	1/40.03	13/40.02
POLY-3 PERCENT (g)	2.9%	0%	0%	2.4%	2.5%	32.5%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	8/25 (32%)
FIRST INCIDENCE	733 (T)	---	---	733 (T)	680	672

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.496N	P=0.485N	P=0.717N	P=0.731N	P<0.001**
POLY 1.5	P<0.001**	P=0.500N	P=0.493N	P=0.733N	P=0.743N	P<0.001**
POLY 6	P<0.001**	P=0.491N	P=0.473N	P=0.695N	P=0.715N	P=0.002**
COCH-ARM / FISHERS	P<0.001**	P=0.495N	P=0.495N	P=0.748N	P=0.748N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.156N	P=0.156N	P=0.450N	P=0.464N	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Lung: Alveolar Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	4/51 (8%)	2/52 (4%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/35.21	2/36.22	0/37.83	0/42.41	0/39.83	0/39.26
POLY-3 PERCENT (g)	11.4%	5.5%	0%	0%	0%	0%
TERMINAL (d)	3/21 (14%)	1/20 (5%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	692	575	---	---	---	---

STATISTICAL TESTS

POLY 3	P=0.139N	P=0.322N	P=0.050N*	P=0.039N*	P=0.045N*	P=0.047N*
POLY 1.5	P=0.136N	P=0.334N	P=0.055N	P=0.046N*	P=0.050N*	P=0.055N
POLY 6	P=0.145N	P=0.306N	P=0.044N*	P=0.033N*	P=0.039N*	P=0.038N*
COCH-ARM / FISHERS	P=0.135N	P=0.330N	P=0.057N	P=0.057N	P=0.057N	P=0.061N
MAX-ISO-POLY-3	P=0.003N**	P=0.188N	P=0.018N*	P=0.018N*	P=0.018N*	P=0.019N*

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Lung: Alveolar Epithelium
 Metaplasia Bronchiolar**

LESION RATES

OVERALL (a)	6/51 (12%)	7/52 (13%)	14/52 (27%)	18/52 (35%)	24/52 (46%)	40/50 (80%)
POLY-3 RATE (b)	6/35.05	7/37.08	14/39.86	18/43.69	24/42.76	40/44.86
POLY-3 PERCENT (g)	17.1%	18.9%	35.1%	41.2%	56.1%	89.2%
TERMINAL (d)	6/21 (29%)	2/20 (10%)	7/25 (28%)	12/30 (40%)	15/28 (54%)	23/25 (92%)
FIRST INCIDENCE	733 (T)	503	504	593	551	459

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.545	P=0.063	P=0.017*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.515	P=0.047*	P=0.010**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.591	P=0.098	P=0.034*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.515	P=0.044*	P=0.006**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.424	P=0.044*	P=0.015*	P<0.001**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Lung: Alveolus
 Infiltration Cellular Histiocyte**

LESION RATES

OVERALL (a)	36/51 (71%)	35/52 (67%)	37/52 (71%)	39/52 (75%)	34/52 (65%)	40/50 (80%)
POLY-3 RATE (b)	36/44.55	35/42.94	37/46.38	39/48.18	34/44.72	40/44.32
POLY-3 PERCENT (g)	80.8%	81.5%	79.8%	80.9%	76%	90.3%
TERMINAL (d)	16/21 (76%)	16/20 (80%)	19/25 (76%)	25/30 (83%)	22/28 (79%)	22/25 (88%)
FIRST INCIDENCE	320	341	197	300	407	484

STATISTICAL TESTS

POLY 3	P=0.081	P=0.581	P=0.559N	P=0.604	P=0.377N	P=0.148
POLY 1.5	P=0.059	P=0.581	P=0.597	P=0.522	P=0.377N	P=0.099
POLY 6	P=0.126	P=0.610	P=0.509N	P=0.548N	P=0.383N	P=0.243
COCH-ARM / FISHERS	P=0.117	P=0.442N	P=0.561	P=0.389	P=0.362N	P=0.194
MAX-ISO-POLY-3	P=0.149	P=0.464	P=0.448N	P=0.493	P=0.278N	P=0.085

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Lymph Node, Mandibular
 Hyperplasia**

LESION RATES

OVERALL (a)	24/51 (47%)	34/51 (67%)	36/52 (69%)	33/51 (65%)	30/52 (58%)	19/51 (37%)
POLY-3 RATE (b)	24/39.84	34/40.71	36/44.06	33/44.96	30/43.10	19/40.86
POLY-3 PERCENT (g)	60.2%	83.5%	81.7%	73.4%	69.6%	46.5%
TERMINAL (d)	13/21 (62%)	18/20 (90%)	22/25 (88%)	25/30 (83%)	22/28 (79%)	14/25 (56%)
FIRST INCIDENCE	495	341	183	412	64	652

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.009**	P=0.016*	P=0.129	P=0.238	P=0.145N
POLY 1.5	P<0.001N**	P=0.011*	P=0.013*	P=0.090	P=0.225	P=0.188N
POLY 6	P<0.001N**	P=0.010**	P=0.022*	P=0.187	P=0.252	P=0.114N
COCH-ARM / FISHERS	P=0.002N**	P=0.036*	P=0.018*	P=0.055	P=0.189	P=0.211N
MAX-ISO-POLY-3	P<0.001N**	P=0.005**	P=0.010**	P=0.096	P=0.176	P=0.100N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Mammary Gland
 Cyst**

LESION RATES

OVERALL (a)	1/52 (2%)	2/51 (4%)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/35.12	2/35.72	0/37.83	2/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	2.9%	5.6%	0%	4.7%	0%	0%
TERMINAL (d)	1/21 (5%)	1/20 (5%)	0/25 (0%)	2/30 (7%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	733 (T)	728	---	733 (T)	---	---

STATISTICAL TESTS

POLY 3	P=0.235N	P=0.506	P=0.485N	P=0.565	P=0.475N	P=0.474N
POLY 1.5	P=0.244N	P=0.498	P=0.494N	P=0.540	P=0.485N	P=0.490N
POLY 6	P=0.227N	P=0.516	P=0.473N	P=0.595	P=0.462N	P=0.458N
COCH-ARM / FISHERS	P=0.258N	P=0.493	P=0.500N	P=0.500	P=0.500N	P=0.510N
MAX-ISO-POLY-3	P=0.227N	P=0.287	P=0.157N	P=0.350	P=0.157N	P=0.160N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Mammary Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	4/52 (8%)	5/51 (10%)	4/52 (8%)	5/52 (10%)	0/52 (0%)	1/50 (2%)
POLY-3 RATE (b)	4/35.52	5/36.39	4/37.83	5/43.29	0/39.83	1/39.93
POLY-3 PERCENT (g)	11.3%	13.7%	10.6%	11.6%	0%	2.5%
TERMINAL (d)	2/21 (10%)	4/20 (20%)	4/25 (16%)	3/30 (10%)	0/28 (0%)	1/25 (4%)
FIRST INCIDENCE	658	495	733 (T)	582	---	733 (T)

STATISTICAL TESTS

POLY 3	P=0.055N	P=0.516	P=0.610N	P=0.622	P=0.046N*	P=0.144N
POLY 1.5	P=0.063N	P=0.499	P=0.631N	P=0.575	P=0.052N	P=0.165N
POLY 6	P=0.049N*	P=0.533	P=0.583N	P=0.599N	P=0.040N*	P=0.125N
COCH-ARM / FISHERS	P=0.074N	P=0.488	P=0.642N	P=0.500	P=0.059N	P=0.194N
MAX-ISO-POLY-3	P=0.087N	P=0.377	P=0.463N	P=0.485	P=0.018N*	P=0.075N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Mammary Gland
 Inflammation Granulomatous**

LESION RATES

OVERALL (a)	0/52 (0%)	0/51 (0%)	2/52 (4%)	1/52 (2%)	0/52 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/35.12	0/35.70	2/38.52	1/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	0%	0%	5.2%	2.4%	0%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	545	733 (T)	---	---

STATISTICAL TESTS

POLY 3	P=0.403N	(e)	P=0.258	P=0.537	(e)	(e)
POLY 1.5	P=0.419N	(e)	P=0.246	P=0.523	(e)	(e)
POLY 6	P=0.385N	(e)	P=0.275	P=0.555	(e)	(e)
COCH-ARM / FISHERS	P=0.438N	(e)	P=0.248	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.448N	(e)	P=0.095	P=0.202	(e)	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Mesentery: Artery
 Inflammation Chronic

LESION RATES

OVERALL (a)	1/2 (50%)	0/1 (0%)	0/3 (0%)	2/3 (67%)	5/9 (56%)	8/9 (89%)
POLY-3 RATE (b)	1/1.00	0/0.96	0/2.31	2/2.50	5/8.54	8/8.25
POLY-3 PERCENT (g)	99.6%	0%	0%	80%	58.6%	97%
TERMINAL (d)	1/1 (100%)	0/0 (0%)	0/0 (0%)	2/2 (100%)	4/6 (67%)	4/4 (100%)
FIRST INCIDENCE	733 (T)	---	---	733 (T)	725	672

STATISTICAL TESTS

POLY 3	P=0.006**	P=0.515N	P=0.272N	P=0.876N	P=0.585N	P=1.000N
POLY 1.5	P=0.008**	P=0.525N	P=0.270N	P=0.793N	P=0.594N	P=0.989
POLY 6	P=0.008**	P=0.528N	P=0.312N	P=0.995N	P=0.604N	P=1.000N
COCH-ARM / FISHERS	P=0.022*	P=0.667N	P=0.400N	P=0.700	P=0.727	P=0.345
MAX-ISO-POLY-3	P=0.012*	P=0.075N	P=0.042N*	P=0.360N	P=0.331N	P=0.439N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Nose
 Inflammation**

LESION RATES

OVERALL (a)	1/52 (2%)	5/52 (10%)	5/52 (10%)	3/52 (6%)	5/52 (10%)	23/52 (44%)
POLY-3 RATE (b)	1/35.77	5/37.88	5/40.04	3/43.66	5/41.56	23/41.99
POLY-3 PERCENT (g)	2.8%	13.2%	12.5%	6.9%	12%	54.8%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	2/25 (8%)	0/30 (0%)	1/28 (4%)	14/25 (56%)
FIRST INCIDENCE	516	265	163	582	298	484

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.112	P=0.127	P=0.380	P=0.138	P<0.001**
POLY 1.5	P<0.001**	P=0.104	P=0.114	P=0.349	P=0.123	P<0.001**
POLY 6	P<0.001**	P=0.123	P=0.146	P=0.418	P=0.158	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.102	P=0.102	P=0.309	P=0.102	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.055	P=0.069	P=0.227	P=0.078	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Nose: Respiratory Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	5/52 (10%)	5/52 (10%)	7/52 (13%)	7/52 (13%)	14/52 (27%)	27/52 (52%)
POLY-3 RATE (b)	5/38.42	5/36.60	7/42.49	7/43.65	14/41.93	27/43.18
POLY-3 PERCENT (g)	13%	13.7%	16.5%	16%	33.4%	62.5%
TERMINAL (d)	1/21 (5%)	4/20 (20%)	2/25 (8%)	4/30 (13%)	9/28 (32%)	19/25 (76%)
FIRST INCIDENCE	119	341	163	571	407	75

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.602	P=0.451	P=0.471	P=0.026*	P<0.001**
POLY 1.5	P<0.001**	P=0.599	P=0.421	P=0.428	P=0.022*	P<0.001**
POLY 6	P<0.001**	P=0.605	P=0.488	P=0.528	P=0.034*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.629N	P=0.380	P=0.380	P=0.020*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.467	P=0.338	P=0.357	P=0.017*	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Ovary
 Cyst**

LESION RATES

OVERALL (a)	8/52 (15%)	10/52 (19%)	14/52 (27%)	14/52 (27%)	14/52 (27%)	7/48 (15%)
POLY-3 RATE (b)	8/37.29	10/38.46	14/39.30	14/43.58	14/42.71	7/38.60
POLY-3 PERCENT (g)	21.5%	26%	35.6%	32.1%	32.8%	18.1%
TERMINAL (d)	4/21 (19%)	4/20 (20%)	9/25 (36%)	9/30 (30%)	7/28 (25%)	5/25 (20%)
FIRST INCIDENCE	446	302	433	593	421	677

STATISTICAL TESTS

POLY 3	P=0.123N	P=0.422	P=0.127	P=0.203	P=0.186	P=0.470N
POLY 1.5	P=0.154N	P=0.397	P=0.113	P=0.163	P=0.152	P=0.520N
POLY 6	P=0.100N	P=0.456	P=0.151	P=0.261	P=0.237	P=0.417N
COCH-ARM / FISHERS	P=0.199N	P=0.398	P=0.115	P=0.115	P=0.115	P=0.568N
MAX-ISO-POLY-3	P=0.227N	P=0.321	P=0.086	P=0.156	P=0.140	P=0.362N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Ovary
 Inflammation**

LESION RATES

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	1/52 (2%)	2/48 (4%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	2/42.43	1/40.16	2/38.30
POLY-3 PERCENT (g)	0%	0%	0%	4.7%	2.5%	5.2%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	2/25 (8%)
FIRST INCIDENCE	---	---	---	730	642	733 (T)

STATISTICAL TESTS

POLY 3	P=0.145	(e)	(e)	P=0.281	P=0.527	P=0.257
POLY 1.5	P=0.130	(e)	(e)	P=0.263	P=0.515	P=0.238
POLY 6	P=0.161	(e)	(e)	P=0.304	P=0.541	P=0.278
COCH-ARM / FISHERS	P=0.113	(e)	(e)	P=0.248	P=0.500	P=0.228
MAX-ISO-POLY-3	P=0.141	(e)	(e)	P=0.117	P=0.189	P=0.098

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas
 Inflammation Chronic**

LESION RATES

OVERALL (a)	0/52 (0%)	1/52 (2%)	2/52 (4%)	2/52 (4%)	3/52 (6%)	2/47 (4%)
POLY-3 RATE (b)	0/35.12	1/36.55	2/37.98	2/42.41	3/39.86	2/38.61
POLY-3 PERCENT (g)	0%	2.7%	5.3%	4.7%	7.5%	5.2%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	2/30 (7%)	2/28 (7%)	0/25 (0%)
FIRST INCIDENCE	---	386	694	733 (T)	725	459

STATISTICAL TESTS

POLY 3	P=0.440	P=0.508	P=0.254	P=0.281	P=0.142	P=0.259
POLY 1.5	P=0.401	P=0.502	P=0.244	P=0.263	P=0.132	P=0.237
POLY 6	P=0.483	P=0.515	P=0.269	P=0.304	P=0.155	P=0.285
COCH-ARM / FISHERS	P=0.355	P=0.500	P=0.248	P=0.248	P=0.121	P=0.223
MAX-ISO-POLY-3	P=0.198	P=0.167	P=0.092	P=0.117	P=0.059	P=0.101

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Pancreas: Acinus
 Atrophy Focal

LESION RATES

OVERALL (a)	4/52 (8%)	2/52 (4%)	3/52 (6%)	4/52 (8%)	3/52 (6%)	1/47 (2%)
POLY-3 RATE (b)	4/35.79	2/36.55	3/37.98	4/42.88	3/39.86	1/38.03
POLY-3 PERCENT (g)	11.2%	5.5%	7.9%	9.3%	7.5%	2.6%
TERMINAL (d)	3/21 (14%)	1/20 (5%)	2/25 (8%)	3/30 (10%)	2/28 (7%)	0/25 (0%)
FIRST INCIDENCE	503	386	694	593	725	617

STATISTICAL TESTS

POLY 3	P=0.166N	P=0.325N	P=0.467N	P=0.541N	P=0.441N	P=0.159N
POLY 1.5	P=0.186N	P=0.337N	P=0.488N	P=0.582N	P=0.466N	P=0.183N
POLY 6	P=0.146N	P=0.312N	P=0.437N	P=0.491N	P=0.411N	P=0.134N
COCH-ARM / FISHERS	P=0.212N	P=0.339N	P=0.500N	P=0.642N	P=0.500N	P=0.214N
MAX-ISO-POLY-3	P=0.171N	P=0.191N	P=0.320N	P=0.403N	P=0.302N	P=0.082N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas: Acinus
 Hyperplasia**

LESION RATES

OVERALL (a)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/52 (0%)	1/52 (2%)	0/47 (0%)
POLY-3 RATE (b)	0/35.12	2/35.70	0/37.83	0/42.41	1/39.83	0/37.63
POLY-3 PERCENT (g)	0%	5.6%	0%	0%	2.5%	0%
TERMINAL (d)	0/21 (0%)	2/20 (10%)	0/25 (0%)	0/30 (0%)	1/28 (4%)	0/25 (0%)
FIRST INCIDENCE	---	733 (T)	---	---	733 (T)	---

STATISTICAL TESTS

POLY 3	P=0.485N	P=0.240	(e)	(e)	P=0.525	(e)
POLY 1.5	P=0.493N	P=0.235	(e)	(e)	P=0.515	(e)
POLY 6	P=0.478N	P=0.246	(e)	(e)	P=0.538	(e)
COCH-ARM / FISHERS	P=0.497N	P=0.248	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.297N	P=0.078	(e)	(e)	P=0.187	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas: Acinus
 Vacuolization Cytoplasmic**

LESION RATES

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	4/52 (8%)	42/47 (89%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	0/42.41	4/39.86	42/43.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	97.1%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	3/28 (11%)	24/25 (96%)
FIRST INCIDENCE	---	---	---	---	725	433

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	(e)	(e)	P=0.077	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.070	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.087	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.059	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.033*	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas: Artery
 Inflammation Chronic**

LESION RATES

OVERALL (a)	1/52 (2%)	2/52 (4%)	1/52 (2%)	7/52 (13%)	7/52 (13%)	12/47 (26%)
POLY-3 RATE (b)	1/35.12	2/35.81	1/38.12	7/42.90	7/39.86	12/38.70
POLY-3 PERCENT (g)	2.9%	5.6%	2.6%	16.3%	17.6%	31%
TERMINAL (d)	1/21 (5%)	1/20 (5%)	0/25 (0%)	5/30 (17%)	6/28 (21%)	9/25 (36%)
FIRST INCIDENCE	733 (T)	706	652	593	725	567

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.507	P=0.743N	P=0.056	P=0.044*	P<0.001**
POLY 1.5	P<0.001**	P=0.498	P=0.754N	P=0.044*	P=0.037*	P<0.001**
POLY 6	P<0.001**	P=0.518	P=0.727N	P=0.075	P=0.053	P=0.003**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.752N	P=0.030*	P=0.030*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.287	P=0.477N	P=0.036*	P=0.024*	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas: Duct
 Dilatation**

LESION RATES

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	3/47 (6%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	0/42.41	0/39.83	3/38.92
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	7.7%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	---	---	---	459

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.138
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.119
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.162
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.103
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.059

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas: Duct
 Inflammation**

LESION RATES

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	2/47 (4%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	0/42.41	0/39.83	2/38.16
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	5.2%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	---	---	---	617

STATISTICAL TESTS

POLY 3	P=0.008**	(e)	(e)	(e)	(e)	P=0.256
POLY 1.5	P=0.007**	(e)	(e)	(e)	(e)	P=0.235
POLY 6	P=0.009**	(e)	(e)	(e)	(e)	P=0.282
COCH-ARM / FISHERS	P=0.007**	(e)	(e)	(e)	(e)	P=0.223
MAX-ISO-POLY-3	P=0.015*	(e)	(e)	(e)	(e)	P=0.098

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pituitary Gland: Pars Distalis
 Hyperplasia**

LESION RATES

OVERALL (a)	10/52 (19%)	6/52 (12%)	13/52 (25%)	13/52 (25%)	16/52 (31%)	10/52 (19%)
POLY-3 RATE (b)	10/36.06	6/37.36	13/40.90	13/42.71	16/41.01	10/40.49
POLY-3 PERCENT (g)	27.7%	16.1%	31.8%	30.4%	39%	24.7%
TERMINAL (d)	8/21 (38%)	3/20 (15%)	5/25 (20%)	10/30 (33%)	12/28 (43%)	6/25 (24%)
FIRST INCIDENCE	516	386	453	658	531	623

STATISTICAL TESTS

POLY 3	P=0.455N	P=0.173N	P=0.444	P=0.494	P=0.205	P=0.484N
POLY 1.5	P=0.512N	P=0.196N	P=0.374	P=0.422	P=0.167	P=0.558N
POLY 6	P=0.404N	P=0.147N	P=0.543	P=0.582	P=0.262	P=0.401N
COCH-ARM / FISHERS	P=0.532N	P=0.208N	P=0.319	P=0.319	P=0.129	P=0.598N
MAX-ISO-POLY-3	P=0.330	P=0.112N	P=0.355	P=0.403	P=0.156	P=0.386N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Skin
 Hyperplasia**

LESION RATES

OVERALL (a)	0/52 (0%)	2/51 (4%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/51 (0%)
POLY-3 RATE (b)	0/35.12	2/35.70	0/37.83	0/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	0%	5.6%	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	2/20 (10%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	733 (T)	---	---	---	---

STATISTICAL TESTS

POLY 3	P=0.485N	P=0.240	(e)	(e)	(e)	(e)
POLY 1.5	P=0.485N	P=0.235	(e)	(e)	(e)	(e)
POLY 6	P=0.488N	P=0.246	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.481N	P=0.243	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.203N	P=0.079	(e)	(e)	(e)	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Skin
 Inflammation**

LESION RATES

OVERALL (a)	0/52 (0%)	3/51 (6%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/51 (0%)
POLY-3 RATE (b)	0/35.12	3/35.74	0/37.83	0/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	0%	8.4%	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	2/20 (10%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	723	---	---	---	---

STATISTICAL TESTS

POLY 3	P=0.350N	P=0.120	(e)	(e)	(e)	(e)
POLY 1.5	P=0.352N	P=0.117	(e)	(e)	(e)	(e)
POLY 6	P=0.352N	P=0.125	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.350N	P=0.118	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.118N	P=0.040*	(e)	(e)	(e)	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Spleen
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	42/52 (81%)	39/52 (75%)	39/52 (75%)	39/52 (75%)	32/52 (62%)	34/47 (72%)
POLY-3 RATE (b)	42/48.24	39/45.21	39/48.76	39/49.31	32/44.18	34/41.98
POLY-3 PERCENT (g)	87.1%	86.3%	80%	79.1%	72.4%	81%
TERMINAL (d)	17/21 (81%)	19/20 (95%)	18/25 (72%)	24/30 (80%)	21/28 (75%)	21/25 (84%)
FIRST INCIDENCE	291	302	183	238	484	433

STATISTICAL TESTS

POLY 3	P=0.402N	P=0.583N	P=0.243N	P=0.204N	P=0.052N	P=0.297N
POLY 1.5	P=0.407N	P=0.525N	P=0.276N	P=0.220N	P=0.036N*	P=0.307N
POLY 6	P=0.411N	P=0.635	P=0.213N	P=0.209N	P=0.077N	P=0.306N
COCH-ARM / FISHERS	P=0.320N	P=0.319N	P=0.319N	P=0.319N	P=0.025N*	P=0.226N
MAX-ISO-POLY-3	P=0.180N	P=0.452N	P=0.163N	P=0.134N	P=0.034N*	P=0.209N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Spleen
 Pigmentation**

LESION RATES

OVERALL (a)	39/52 (75%)	35/52 (67%)	31/52 (60%)	36/52 (69%)	40/52 (77%)	28/47 (60%)
POLY-3 RATE (b)	39/46.36	35/44.42	31/45.53	36/49.18	40/47.54	28/45.26
POLY-3 PERCENT (g)	84.1%	78.8%	68.1%	73.2%	84.1%	61.9%
TERMINAL (d)	18/21 (86%)	16/20 (80%)	16/25 (64%)	22/30 (73%)	23/28 (82%)	12/25 (48%)
FIRST INCIDENCE	320	265	229	238	298	54

STATISTICAL TESTS

POLY 3	P=0.017N*	P=0.338N	P=0.048N*	P=0.131N	P=0.621	P=0.010N**
POLY 1.5	P=0.036N*	P=0.339N	P=0.062N	P=0.180N	P=0.565	P=0.021N*
POLY 6	P=0.008N**	P=0.312N	P=0.029N*	P=0.092N	P=0.559N	P=0.004N**
COCH-ARM / FISHERS	P=0.160N	P=0.258N	P=0.071N	P=0.331N	P=0.500	P=0.077N
MAX-ISO-POLY-3	P=0.008N**	P=0.241N	P=0.028N*	P=0.089N	P=0.499	P=0.006N**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Spleen: Lymphoid Follicle
 Atrophy**

LESION RATES

OVERALL (a)	3/52 (6%)	4/52 (8%)	2/52 (4%)	2/52 (4%)	3/52 (6%)	3/47 (6%)
POLY-3 RATE (b)	3/36.51	4/37.61	2/38.37	2/43.60	3/41.39	3/38.54
POLY-3 PERCENT (g)	8.2%	10.6%	5.2%	4.6%	7.3%	7.8%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	512	265	595	457	480	620

STATISTICAL TESTS

POLY 3	P=0.575	P=0.516	P=0.477N	P=0.420N	P=0.604N	P=0.638N
POLY 1.5	P=0.549	P=0.503	P=0.492N	P=0.450N	P=0.628N	P=0.653
POLY 6	P=0.601	P=0.531	P=0.457N	P=0.387N	P=0.576N	P=0.598N
COCH-ARM / FISHERS	P=0.521	P=0.500	P=0.500N	P=0.500N	P=0.661N	P=0.612
MAX-ISO-POLY-3	P=0.553N	P=0.362	P=0.306N	P=0.271N	P=0.440N	P=0.473N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Spleen: Red Pulp
 Atrophy**

LESION RATES

OVERALL (a)	0/52 (0%)	2/52 (4%)	2/52 (4%)	1/52 (2%)	1/52 (2%)	3/47 (6%)
POLY-3 RATE (b)	0/35.12	2/36.67	2/38.88	1/43.17	1/40.55	3/38.54
POLY-3 PERCENT (g)	0%	5.5%	5.1%	2.3%	2.5%	7.8%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	265	229	457	480	620

STATISTICAL TESTS

POLY 3	P=0.169	P=0.246	P=0.260	P=0.541	P=0.529	P=0.136
POLY 1.5	P=0.152	P=0.239	P=0.248	P=0.525	P=0.517	P=0.118
POLY 6	P=0.189	P=0.254	P=0.276	P=0.559	P=0.543	P=0.160
COCH-ARM / FISHERS	P=0.137	P=0.248	P=0.248	P=0.500	P=0.500	P=0.103
MAX-ISO-POLY-3	P=0.101	P=0.084	P=0.097	P=0.206	P=0.192	P=0.057

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Stomach, Forestomach
 Hyperplasia**

LESION RATES

OVERALL (a)	0/52 (0%)	3/52 (6%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	3/51 (6%)
POLY-3 RATE (b)	0/35.12	3/36.55	0/37.83	0/42.41	2/39.83	3/40.68
POLY-3 PERCENT (g)	0%	8.2%	0%	0%	5%	7.4%
TERMINAL (d)	0/21 (0%)	2/20 (10%)	0/25 (0%)	0/30 (0%)	2/28 (7%)	1/25 (4%)
FIRST INCIDENCE	---	386	---	---	733 (T)	567

STATISTICAL TESTS

POLY 3	P=0.109	P=0.124	(e)	(e)	P=0.266	P=0.147
POLY 1.5	P=0.099	P=0.119	(e)	(e)	P=0.253	P=0.129
POLY 6	P=0.119	P=0.130	(e)	(e)	P=0.281	P=0.168
COCH-ARM / FISHERS	P=0.095	P=0.121	(e)	(e)	P=0.248	P=0.118
MAX-ISO-POLY-3	P=0.096	P=0.043*	(e)	(e)	P=0.102	P=0.063

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Stomach, Forestomach
 Inflammation**

LESION RATES

OVERALL (a)	2/52 (4%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	1/51 (2%)
POLY-3 RATE (b)	2/35.62	1/36.55	0/37.83	0/42.41	0/39.83	1/39.93
POLY-3 PERCENT (g)	5.6%	2.7%	0%	0%	0%	2.5%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	1/25 (4%)
FIRST INCIDENCE	662	386	---	---	---	733 (T)

STATISTICAL TESTS

POLY 3	P=0.659	P=0.491N	P=0.223N	P=0.200N	P=0.212N	P=0.460N
POLY 1.5	P=0.658	P=0.499N	P=0.231N	P=0.214N	P=0.222N	P=0.485N
POLY 6	P=0.657	P=0.483N	P=0.213N	P=0.186N	P=0.202N	P=0.436N
COCH-ARM / FISHERS	P=0.659	P=0.500N	P=0.248N	P=0.248N	P=0.248N	P=0.507N
MAX-ISO-POLY-3	P=0.111N	P=0.274N	P=0.075N	P=0.075N	P=0.075N	P=0.258N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Stomach, Forestomach
 Ulcer**

LESION RATES

OVERALL (a)	2/52 (4%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/51 (0%)
POLY-3 RATE (b)	2/35.62	0/35.70	0/37.83	0/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	5.6%	0%	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	662	---	---	---	---	---

STATISTICAL TESTS

POLY 3	P=0.461N	P=0.236N	P=0.223N	P=0.200N	P=0.212N	P=0.212N
POLY 1.5	P=0.453N	P=0.240N	P=0.231N	P=0.214N	P=0.222N	P=0.227N
POLY 6	P=0.471N	P=0.232N	P=0.213N	P=0.186N	P=0.202N	P=0.198N
COCH-ARM / FISHERS	P=0.447N	P=0.248N	P=0.248N	P=0.248N	P=0.248N	P=0.252N
MAX-ISO-POLY-3	P=0.012N*	P=0.075N	P=0.075N	P=0.075N	P=0.075N	P=0.076N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Thymus
 Atrophy**

LESION RATES

OVERALL (a)	41/51 (80%)	38/51 (75%)	44/51 (86%)	44/50 (88%)	46/50 (92%)	44/49 (90%)
POLY-3 RATE (b)	41/47.18	38/45.53	44/47.58	44/48.04	46/46.79	44/44.79
POLY-3 PERCENT (g)	86.9%	83.5%	92.5%	91.6%	98.3%	98.2%
TERMINAL (d)	17/21 (81%)	15/20 (75%)	22/25 (88%)	27/30 (90%)	27/27 (100%)	24/24 (100%)
FIRST INCIDENCE	320	265	183	412	407	433

STATISTICAL TESTS

POLY 3	P=0.018*	P=0.427N	P=0.278	P=0.331	P=0.025*	P=0.033*
POLY 1.5	P=0.014*	P=0.425N	P=0.239	P=0.287	P=0.030*	P=0.024*
POLY 6	P=0.026*	P=0.432N	P=0.349	P=0.378	P=0.028*	P=0.051
COCH-ARM / FISHERS	P=0.103	P=0.318N	P=0.298	P=0.220	P=0.080	P=0.150
MAX-ISO-POLY-3	P=0.013*	P=0.314N	P=0.173	P=0.217	P=0.008**	P=0.013*

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Thymus
 Cyst**

LESION RATES

OVERALL (a)	0/51 (0%)	2/51 (4%)	1/51 (2%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/35.05	2/36.31	1/38.33	0/41.78	0/38.07	0/38.26
POLY-3 PERCENT (g)	0%	5.5%	2.6%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	0/25 (0%)	0/30 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	503	453	---	---	---

STATISTICAL TESTS

POLY 3	P=0.370N	P=0.244	P=0.518	(e)	(e)	(e)
POLY 1.5	P=0.375N	P=0.237	P=0.507	(e)	(e)	(e)
POLY 6	P=0.366N	P=0.252	P=0.532	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.371N	P=0.248	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.300N	P=0.082	P=0.179	(e)	(e)	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Thymus
 Hemorrhage**

LESION RATES

OVERALL (a)	0/51 (0%)	1/51 (2%)	1/51 (2%)	0/50 (0%)	1/50 (2%)	3/49 (6%)
POLY-3 RATE (b)	0/35.05	1/36.14	1/38.54	0/41.78	1/38.65	3/41.26
POLY-3 PERCENT (g)	0%	2.8%	2.6%	0%	2.6%	7.3%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	579	229	---	551	54

STATISTICAL TESTS

POLY 3	P=0.044*	P=0.506	P=0.519	(e)	P=0.519	P=0.150
POLY 1.5	P=0.040*	P=0.500	P=0.509	(e)	P=0.509	P=0.134
POLY 6	P=0.048*	P=0.514	P=0.532	(e)	P=0.534	P=0.171
COCH-ARM / FISHERS	P=0.034*	P=0.500	P=0.500	(e)	P=0.495	P=0.114
MAX-ISO-POLY-3	P=0.063	P=0.165	P=0.180	(e)	P=0.182	P=0.067

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Thymus: Artery
 Inflammation Chronic

LESION RATES

OVERALL (a)	0/51 (0%)	0/51 (0%)	0/51 (0%)	0/50 (0%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/35.05	0/35.63	0/37.57	0/41.78	0/38.07	2/38.79
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	5.2%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	---	---	567

STATISTICAL TESTS

POLY 3	P=0.010**	(e)	(e)	(e)	(e)	P=0.260
POLY 1.5	P=0.009**	(e)	(e)	(e)	(e)	P=0.241
POLY 6	P=0.010**	(e)	(e)	(e)	(e)	P=0.283
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	(e)	(e)	P=0.238
MAX-ISO-POLY-3	P=0.017*	(e)	(e)	(e)	(e)	P=0.099

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Thyroid Gland: C-Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	10/51 (20%)	14/51 (27%)	10/51 (20%)	6/51 (12%)	12/52 (23%)	11/49 (22%)
POLY-3 RATE (b)	10/36.01	14/37.26	10/38.88	6/42.98	12/42.15	11/40.25
POLY-3 PERCENT (g)	27.8%	37.6%	25.7%	14%	28.5%	27.3%
TERMINAL (d)	8/21 (38%)	8/20 (40%)	7/25 (28%)	3/30 (10%)	7/28 (25%)	9/25 (36%)
FIRST INCIDENCE	503	495	595	571	407	433

STATISTICAL TESTS

POLY 3	P=0.538	P=0.254	P=0.525N	P=0.106N	P=0.573	P=0.585N
POLY 1.5	P=0.492	P=0.227	P=0.568N	P=0.143N	P=0.509	P=0.539
POLY 6	P=0.569	P=0.305	P=0.457N	P=0.070N	P=0.552N	P=0.500N
COCH-ARM / FISHERS	P=0.442	P=0.242	P=0.598N	P=0.207N	P=0.425	P=0.459
MAX-ISO-POLY-3	P=0.343N	P=0.183	P=0.422N	P=0.078N	P=0.473	P=0.483N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Thyroid Gland: Follicular Cell Hypertrophy

LESION RATES

OVERALL (a)	6/51 (12%)	7/51 (14%)	13/51 (25%)	18/51 (35%)	21/52 (40%)	23/49 (47%)
POLY-3 RATE (b)	6/37.84	7/38.02	13/44.06	18/44.00	21/45.41	23/43.61
POLY-3 PERCENT (g)	15.9%	18.4%	29.5%	40.9%	46.3%	52.7%
TERMINAL (d)	1/21 (5%)	3/20 (15%)	3/25 (12%)	11/30 (37%)	10/28 (36%)	13/25 (52%)
FIRST INCIDENCE	446	28	183	571	298	54

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.504	P=0.114	P=0.010**	P=0.002**	P<0.001**
POLY 1.5	P<0.001**	P=0.493	P=0.090	P=0.007**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.518	P=0.148	P=0.018*	P=0.004**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.063	P=0.005**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.383	P=0.085	P=0.008**	P=0.002**	P<0.001**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Tooth: Peridental Tissue
 Inflammation

LESION RATES

OVERALL (a)	7/10 (70%)	5/5 (100%)	5/5 (100%)	5/5 (100%)	4/4 (100%)	6/7 (86%)
POLY-3 RATE (b)	7/7.98	5/5.00	5/5.00	5/5.00	4/4.00	6/7.00
POLY-3 PERCENT (g)	87.7%	100%	100%	100%	100%	85.7%
TERMINAL (d)	4/4 (100%)	5/5 (100%)	4/4 (100%)	2/2 (100%)	4/4 (100%)	4/5 (80%)
FIRST INCIDENCE	516	733 (T)	707	593	733 (T)	718

STATISTICAL TESTS

POLY 3	P=0.398N	P=0.617	P=0.617	P=0.617	P=0.668	P=0.744N
POLY 1.5	P=0.466N	P=0.494	P=0.494	P=0.494	P=0.555	P=0.732
POLY 6	P=0.346N	P=0.732	P=0.732	P=0.732	P=0.775	P=0.700N
COCH-ARM / FISHERS	P=0.693N	P=0.264	P=0.264	P=0.264	P=0.330	P=0.441
MAX-ISO-POLY-3	P=0.366N	P=0.190	P=0.190	P=0.190	P=0.226	P=0.456N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Uterus
 Inflammation**

LESION RATES

OVERALL (a)	4/52 (8%)	6/52 (12%)	6/52 (12%)	8/52 (15%)	8/52 (15%)	4/49 (8%)
POLY-3 RATE (b)	4/36.67	6/38.94	6/40.26	8/43.41	8/40.93	4/39.16
POLY-3 PERCENT (g)	10.9%	15.4%	14.9%	18.4%	19.6%	10.2%
TERMINAL (d)	1/21 (5%)	1/20 (5%)	2/25 (8%)	4/30 (13%)	5/28 (18%)	3/25 (12%)
FIRST INCIDENCE	446	302	433	627	531	711

STATISTICAL TESTS

POLY 3	P=0.297N	P=0.406	P=0.428	P=0.267	P=0.230	P=0.608N
POLY 1.5	P=0.325N	P=0.383	P=0.396	P=0.229	P=0.207	P=0.642N
POLY 6	P=0.278N	P=0.432	P=0.470	P=0.317	P=0.260	P=0.573N
COCH-ARM / FISHERS	P=0.358N	P=0.371	P=0.371	P=0.179	P=0.179	P=0.608
MAX-ISO-POLY-3	P=0.469N	P=0.288	P=0.309	P=0.192	P=0.158	P=0.462N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Uterus
 Metaplasia**

LESION RATES

OVERALL (a)	29/52 (56%)	26/52 (50%)	27/52 (52%)	34/52 (65%)	35/52 (67%)	5/49 (10%)
POLY-3 RATE (b)	29/45.63	26/44.12	27/44.17	34/48.76	35/47.92	5/39.87
POLY-3 PERCENT (g)	63.6%	58.9%	61.1%	69.7%	73%	12.5%
TERMINAL (d)	11/21 (52%)	9/20 (45%)	14/25 (56%)	19/30 (63%)	18/28 (64%)	3/25 (12%)
FIRST INCIDENCE	291	302	433	238	298	484

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.405N	P=0.492N	P=0.334	P=0.214	P<0.001N**
POLY 1.5	P<0.001N**	P=0.407N	P=0.492N	P=0.288	P=0.187	P<0.001N**
POLY 6	P<0.001N**	P=0.397N	P=0.473N	P=0.405	P=0.252	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.347N	P=0.422N	P=0.211	P=0.157	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.324N	P=0.405N	P=0.263	P=0.158	P<0.001N**

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Uterus
 Thrombosis**

LESION RATES

OVERALL (a)	1/52 (2%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	1/52 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/35.42	0/35.70	0/37.83	2/42.41	1/40.28	0/39.07
POLY-3 PERCENT (g)	2.8%	0%	0%	4.7%	2.5%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	2/30 (7%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	651	---	---	733 (T)	602	---

STATISTICAL TESTS

POLY 3	P=0.405N	P=0.498N	P=0.487N	P=0.562	P=0.732N	P=0.480N
POLY 1.5	P=0.422N	P=0.502N	P=0.495N	P=0.538	P=0.744N	P=0.495N
POLY 6	P=0.389N	P=0.494N	P=0.476N	P=0.589	P=0.717N	P=0.465N
COCH-ARM / FISHERS	P=0.450N	P=0.500N	P=0.500N	P=0.500	P=0.752N	P=0.515N
MAX-ISO-POLY-3	P=0.357N	P=0.157N	P=0.157N	P=0.347	P=0.465N	P=0.161N

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:20:48
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Uterus
 Ulcer

LESION RATES

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	0/35.70	0/37.83	0/42.41	2/40.45	0/39.07
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.9%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	1/28 (4%)	0/25 (0%)
FIRST INCIDENCE	---	---	---	---	531	---

STATISTICAL TESTS

POLY 3	P=0.756N	(e)	(e)	(e)	P=0.269	(e)
POLY 1.5	P=0.769N	(e)	(e)	(e)	P=0.256	(e)
POLY 6	P=0.744N	(e)	(e)	(e)	P=0.287	(e)
COCH-ARM / FISHERS	P=0.782N	(e)	(e)	(e)	P=0.248	(e)
MAX-ISO-POLY-3	P=0.255	(e)	(e)	(e)	P=0.106	(e)

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Uterus: Endometrium
 Hyperplasia Cystic**

LESION RATES

OVERALL (a)	28/52 (54%)	27/52 (52%)	22/52 (42%)	23/52 (44%)	13/52 (25%)	9/49 (18%)
POLY-3 RATE (b)	28/41.37	27/41.29	22/41.19	23/45.21	13/42.79	9/40.28
POLY-3 PERCENT (g)	67.7%	65.4%	53.4%	50.9%	30.4%	22.4%
TERMINAL (d)	15/21 (71%)	13/20 (65%)	13/25 (52%)	17/30 (57%)	8/28 (29%)	4/25 (16%)
FIRST INCIDENCE	320	357	504	238	298	484

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.505N	P=0.122N	P=0.074N	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.549N	P=0.152N	P=0.112N	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P=0.429N	P=0.084N	P=0.047N*	P<0.001N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.500N	P=0.163N	P=0.216N	P=0.002N**	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.407N	P=0.080N	P=0.054N	P<0.001N**	P<0.001N**

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

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TEF evaluation (PCB 118)
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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
 - (e) Value of Statistic cannot be computed.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***