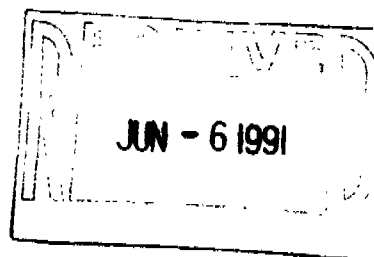




HALOGENATED SOLVENTS INDUSTRY ALLIANCE

1225 19th Street, N.W., Suite 300, Washington, D.C. 20036-2411 • (202) 223-5890

May 23, 1991



TSCA Document Processing Center (TS-790)
Room 201
Office of Pesticides and Toxic Substances
U. S. Environmental Protection Agency
401 M Street, S.W.
Washington, D. C. 20460

Re: Final Report of the Rat Neurotoxicological Study under
the Consent Order for 1,1,1-Trichloroethane, 54 Federal
Register 34991 (August 23, 1989); Docket No OPTS -
42059C

In accordance with the terms of the above-referenced consent
order, HSIA submits six copies of the enclosed final report of
the rat neurotoxicological study on 1,1,1-trichloroethane.

Sincerely,

Thomas A. Cortina
Director of Administration

Enclosures

cc: F. Benenati (OTS)
C. Roman (OTS)

SL 030708

Volume 1: Main Report, 129 pages
Volume 2: In-life Data, 209 pages
Volume 3: Pathology Data, 83 pages

STUDY TITLE

Neurotoxicologic Examination of Rats Exposed to
1,1,1-Trichloroethane Vapor for 13 Weeks

AUTHORS

J. L. Mattsson, R. R. Albee, L. G. Lomax, M. J. Beekman and P. J. Spencer

FINAL REPORT

May 21, 1991

SPONSORED BY

Halogenated Solvents Industry Alliance

PERFORMING LABORATORY

The Toxicology Research Laboratory
Health and Environmental Sciences
The Dow Chemical Company
Midland, Michigan 48674

LABORATORY PROJECT IDENTIFICATION

K-001716-091, K-001716-091A, K-001716-091A2
K-001716-091B, K-001716-091B2

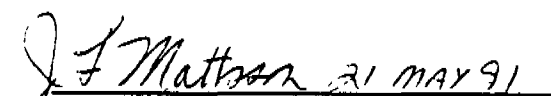
COMPLIANCE WITH GOOD LABORATORY PRACTICE STANDARDS

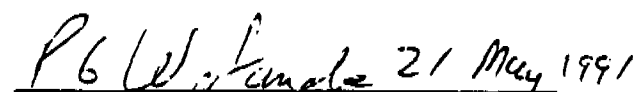
To the best of my knowledge and belief the study described in this report was conducted in compliance with the following Good Laboratory Practice Standards

United States Environmental Protection Agency,
Title 40 Code of Federal Regulations Part 792,
1 July 1989 Edition

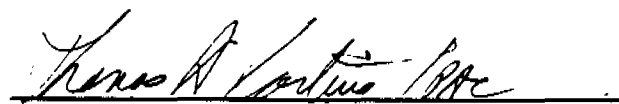
Japan Ministry of Agriculture, Forestry and Fisheries,
59 NohSan, Notification No. 3850,
Agricultural Production Bureau,
10 August 1984

Organization for Economic Co-Operation and Development
ISBN 92-64-12367-9, Paris 1982


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QUALITY ASSURANCE STATEMENT

STUDY TITLE: Neurotoxicologic Examination of Rats Exposed to
1,1,1-Trichloroethane Vapor for 13 Weeks.

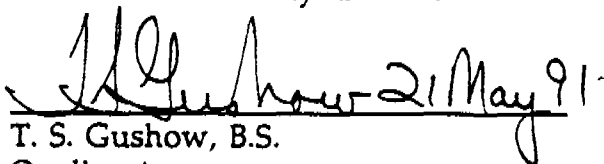
This study was examined for conformance with Good Laboratory Practices as published by the U.S. Environmental Protection Agency, and the Food and Drug Administration. The final report was determined to be an accurate reflection of the data obtained. The dates of Quality Assurance activities on this study are listed below.

Study Initiation Date: 9-15-89

Study Completion Date: 5-21-91

TYPE OF AUDIT:	DATE OF AUDIT:	DATE FINDINGS REPORTED TO STUDY DIRECTOR/MANAGEMENT:
Preliminary protocol	9-15-89	9-15-89
Final protocol	9-21-89	9-21-89
Facility Inspection	5-21-90	5-25-90
Study Conduct	6-12-90	6-13-90
Addendum 1	10-23-90	10-24-90
Protocol, data		
Draft report	5-13-91	5-16-91

ARCHIVING: Raw data and a copy of the final report are filed in the testing facility archives.


T. S. Gushow, B.S.

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SUMMARY

Male and female Fischer 344 rats were exposed to 1,1,1-trichloroethane vapors for 6 hrs/day, 5 days/wk, for 13 weeks. Exposure levels were 200 ppm, 630 ppm and 2000 ppm. Rats were clinically examined regularly and were given a functional observational battery monthly (FOB, including forelimb and hindlimb grip performance testing). After 13 weeks of exposure, the functional integrity of the nervous system was evaluated by FOB and by visual, auditory, somatosensory and caudal nerve evoked potentials. After functional testing, a subgroup of rats had histopathologic examination of brain, spinal cord, peripheral nerves and limb muscles. No treatment related findings were discovered in any parameter except for a slightly smaller forelimb grip performance in the 2000-ppm exposure group.

A subgroup of rats were examined for grip performance 6 weeks postexposure; forelimb grip performance was still smaller in 2000-ppm rats. Forelimb nerves and muscles from these rats then were examined histopathologically, and no treatment-related lesions found.

No reason was discovered for this difference in forelimb grip performance. Forelimb grip performance normally decreases (habituates) over time as a function of experimental conditions, and it is speculated that the daily acute-sedative effects of 2000 ppm 1,1,1-trichloroethane had an interaction with the habituation process. Other than a possible indicator of acute sedation, there was no recognized toxicologic significance to this difference in forelimb grip performance.

CONSENT AGREEMENT

A consent agreement between several companies represented by the Halogenated Solvents Industry Alliance and USEPA (Federal Register, Vol 54, No. 162, 40 CFR Part 799.5000, August 23, 1989) required several studies be performed on rats to determine the neurotoxic potential of 1,1,1-trichloroethane (1,1,1-T):

- Acute motor activity study (inhalation exposure, with motor activity to be evaluated promptly postexposure). Information to be used for dose-setting for a subsequent subchronic neurotoxicity study.
- Acute neurophysiology study (data collected during inhalation exposure). Information to be used for dose-setting for a subsequent subchronic neurotoxicity study.
- Acute neurophysiology and functional observational battery (gavage treatment, tested at time of maximal effects). Information to be used for dose-setting for a subsequent developmental neurotoxicity study.
- Subchronic neurotoxicity study (inhalation exposure).
- Memory task development and validation.
- Developmental neurotoxicity study.

The subchronic neurotoxicity test requirement is the subject of this report.

The USEPA originally proposed that subchronic neurotoxicity be evaluated by Functional Observational Battery, Motor Activity, Schedule Controlled Operant Behavior, and Neuropathology. As a result of the negotiation process, the final test agreement required a subchronic neurotoxicity study that included a Functional Observational Battery, a Sensory Evoked Potential Battery, and Neuropathology.

The emphasis on electrophysiologic techniques for the evaluation of 1,1,1-T was predicated on its general utility in animal neurotoxicology (Dyer, 1985; Rebert, 1983), its use to characterize the acute effects of 1,1,1-T (Albee et al., 1990a), toluene and dichloromethane (Rebert et al., 1989a,b,c), and our experience with this technology (Albee et al., 1987; Albee et al., 1990b; Mattsson and Albee, 1988; Mattsson et al., 1988; Mattsson et al., 1989a,b; Mattsson et al., 1990a,b). In addition, evoked potentials are used in psychiatric diagnostic differentiation (Shagass et al., 1988), are effective for early detection of neurotoxicity in humans, including solvent neurotoxicity (Seppalainen, 1988), and have readily detected persistent changes in evoked potentials in rats after subchronic toluene 'abuse' (Mattsson et al., 1990b).

INTRODUCTION

The dose-setting goal, as stated in the consent agreement protocols, was to select exposure concentrations based on acute nervous system effects and on existing literature concerning classical toxicity endpoints from subchronic and chronic studies. The highest dose selected was to have a clearly demonstrable neurobehavioral effect. The acute neurobehavioral effects, however, should not be of such severity as to cause persistent non-CNS health complications that will compromise the interpretability of the neurotoxicity data. This defines, in a sense, a neurofunctional maximum tolerated dose.

The acute nervous system effects element of dose-setting was accomplished in the acute effects studies required by the test agreement. Acute neurophysiological effects were demonstrated in rats exposed to 2000 or 1000 ppm 1,1,1-T for 6 hrs/day. Large flash evoked potential and electroencephalogram (EEG) changes were apparent in rats exposed to 2000 ppm for 6 hrs, and minor somatosensory changes also occurred. Smaller changes in evoked potentials and EEG were apparent at 1000 ppm (Albee et al., 1990a).

The systemic toxicity element of dose-setting was addressed by literature review. Repetitive exposure studies indicate altered neurochemistry at concentrations of 1000 ppm or less (Karlsson et al., 1987; Rosengren et al., 1985; Savolainen et al., 1977), the presence of mild hepatic and olfactory mucosal changes after subchronic exposure to 1500 to 2000 ppm (Quast et al., 1988; Calhoun et al., 1981), and developmental delay in pups of dams exposed to 2100 ppm (York et al., 1982).

TEST PROCEDURES

TEST SPECIES AND HUSBANDRY:

Species: Fischer 344 rats were used in the study.

Age: Approximately 16 weeks old.

Sex: Equal numbers of male and nulliparous and nonpregnant female rats were put on study.

Husbandry: The study rats were purchased from the Charles River Breeding Laboratory, Kingston, New York. This strain of rat was chosen because of its general use in toxicity testing, availability of historical data and a reliable commercial supplier. Shortly after arrival at the laboratory¹ the animals were checked for health status by a veterinarian and determined to be in good health. Rats were housed one per cage in suspended stainless steel cages which have wire-mesh floors. The holding room was maintained at approximately 22° C, 50% humidity, and a 12-hour light-dark cycle.

¹Fully accredited by the American Association for Accreditation of Laboratory Animal Care (AAALAC).

Purina Certified Rodent Chow (#5002) and municipal drinking water were available *ad libitum* throughout the study except during exposure. Analysis of the Purina Certified Chow was performed by the Purina Mills Inc. to confirm that the diet provided adequate nutrition and to quantify the levels of selected contaminants. Analysis of the tap water was performed according to the Standard Operating Procedures of The Toxicology Research Laboratory (Appendix A). Analyses indicated that feed and water were within acceptable limits.

Numbers: Fourteen per sex per group were put on study. The animals were stratified by weight and then randomly assigned to an exposure group using a computer program. Animals that were placed on study were identified by a uniquely numbered metal ear tag. Animals not placed on study were removed from the study room.

A subsample of 24 (12 males and 12 females, factorial ANOVA) should be able to detect a one standard deviation change in the dependent variables with 90% power at $\alpha=0.05$. Previous experience indicates the following coefficients of variation (CV) for the tests employed: Grip strength = 20%; Latency difference < 10%; Correlation = 10%; Power = 35%; Body weight < 5%; Temperature < 5%.

Controls: A concurrent air control was used.

DOSE LEVELS AND DOSE SELECTION: A control and three levels of treatment were used. The USEPA and HSIA had a subchronic neurotoxicity dose-setting meeting on March 22, 1990. Based on the presence of large acute pharmacologic changes in CNS function at 2000 ppm 1,1,1-T, and the findings of mild systemic toxicity at about 2000 ppm in previous repetitive dose studies, a subchronic top exposure level of 2000 ppm was selected. Lower exposures were selected at half log and log intervals. The intermediate exposure level was 630 ppm, and the low exposure level was 200 ppm.

Duration: 13 weeks.

Route: Rats were exposed to 1,1,1-T vapors for 6 hr/day, 5 days/week, for 13 weeks.

TEST MATERIAL: 1,1,1-Trichloroethane, stabilized with 0.1% butylene oxide, lot number TA9003051, was obtained from The Dow Chemical Company. The identity of the test material was confirmed by gas chromatography with thermal conductivity detection (GC/TCD) and infrared spectroscopy (IR). The sample of 1,1,1-T was determined, by GC, to be 99.9% pure with no impurities $\geq 0.1\%$ (Heimerl, 1990; Putzig, 1990).

EXPOSURE CHAMBERS AND ATMOSPHERE GENERATION: Stainless steel and glass 4.1 m³ Rochester-type exposure chambers (square with pyramidal top and bottom) were used with the airflow maintained at 800 l/min. Vapor distribution was evaluated prior to animal exposures by comparing the concentration at 4 points within the animal breathing zone with the primary sampling line (reference point). The concentration at all points was within 8% of the reference. The minimum and maximum chamber temperature and the relative humidity were recorded at the end of each exposure period.

Test atmospheres of 1,1,1-T were generated according to the method of Miller et al. (1980). 1,1,1-T was metered (Fluid Metering Inc., Oyster Bay, NY) at a uniform rate into a glass J-tube filled with 6-mm glass beads. Compressed air, heated with a flameless heat torch (Master Appliance Corp., Racine, WI) to the minimum extent necessary (max. 42°C), passed through the J-tube to volatilize the test material prior to entering the main chamber air stream.

The concentration of 1,1,1-T in the chamber was monitored 1-2 times per hour with a Miran 1A infrared spectrometer. Calibration was performed with

air standards prepared by dilution of measured volumes of 1,1,1-T with metered volumes of compressed air in Saran² bags. The concentration of 1,1,1-T in the chamber was determined by interpolation from standards via a data acquisition and computation system (Camile², The Dow Chemical Company, Midland, MI). The analytical system was evaluated with at least one 1,1,1-T standard prior to each day of exposure. The nominal concentration (ratio of amount of test material vaporized to the total amount of air through the chamber) was calculated daily for each chamber.

DESIGN SUMMARY: The combined protocol includes the functional observational battery, grip performance, electrophysiology and neuropathology. Fourteen rats of each sex were randomly selected for each treatment group. Exposure duration was approximately 13 weeks. The work volume (implantation, testing, perfusion) required that the rats be divided into two subgroups that started one week apart. Each subgroup was counterbalanced for numbers of rats per dose level. Functional observational battery and grip testing were conducted on all rats before exposure and monthly thereafter. An electrophysiological test battery was conducted on 12/sex/group after 13 weeks of exposure. Ten rats (5 males and 5 females) per exposure level were necropsied after electrophysiological testing, and the remaining rats were held postexposure. Since forelimb grip performance was lower in 2000-ppm rats after 13 weeks of exposure, the postexposure rats were retested for grip performance (retested 7 weeks postexposure). Forelimb muscles and nerves of postexposure rats were examined histopathologically. Counterbalancing: Testing was counterbalanced across dose groups. Each animal was tested individually.

BODY WEIGHTS: Body weights were taken at preexposure and weekly during exposure.

² Registered Trademark of The Dow Chemical Company.

OBSERVATIONS:

Daily Observations: Cage-side observations for general health status were conducted twice daily.

Weekly Observations: Each rat was removed from its cage and physically examined for changes in general health, which included specific observations on respiration, muscle tone, movement, tremor, skin and haircoat condition, salivation, lacrimation, urine staining and fecal staining.

Monthly Observations: A Functional Observational Battery (FOB, Table 1) was conducted on all rats of both subgroups at preexposure and monthly thereafter. The evaluation was done before daily treatment. All animals were carefully examined by the same trained technician. The handler presented the rats to the observer in a random order and in such a way that the observer did not know the identity of the rat nor the exposure level. Observations noted: (a) any unusual responses with respect to body position, activity level, coordination of movement, and gait; (b) any unusual or bizarre behavior including but not limited to headflicking, head searching, compulsive biting or licking, selfmutilation, circling, and walking backwards; (c) the presence of convulsions, tremors, increased levels of lacrimation and/or red-colored tears, increased levels of salivation, piloerection, pupillary dilation or constriction, unusual respiration (shallow, labored, dyspneic, gasping, and retching) and/or mouth breathing, diarrhea, excessive or diminished urination, vocalization; (d) forelimb and hindlimb grip performance; (e) sensory function (audition, pain perception; visual placing not done since flash evoked potentials were accomplished and visual placing is a questionable response in albino rats).

Table 1 - Functional Observational Battery (Methods):

<u>Hand-Held Observations</u>	<u>Recorded As</u>
Pupil Size	N, I, or D
Respiration (increased, wheezing, etc.)	N or A
Movement (bizarre behavior, vocalization tremors, convulsions, etc.)	N or A
Skin and Haircoat (poor grooming, piloerection, etc.)	N or A
Salivation	N or I
Lacrimation	N or I
Urine Staining	+ or -
Fecal Staining	+ or -

Observations in 50 cm x 50 cm clear plastic box:

Locomotor Behavior (gait, pattern, activity level, coordination, etc.)	N or A
Responsiveness to Touch	N, I, or D
Responsiveness to Sharp Noise	N, I, or D
Responsiveness to Tail Pinch	N, I, or D

N = normal; A = abnormal, accompanied with description; I = increased;
D = decreased; + = present; - = absent

Grip Performance: Grip performance was tested at the same time as the FOB according to the procedure described by Mattsson *et al.* (1986). Briefly, the rats were selected in a random manner and given to the observer in such a way that the observer did not know the treatment status of the animal. The observer then placed the rat's forelegs on a bench and the hindfeet were set on a horizontal screen attached to a strain gauge. The observer then smoothly but firmly pulled backward on the tail until the rat's grip on the screen was broken. The strain gauge recorded the rat's resistance to the pull in grams. The strongest response of three trials was used for statistical analysis. Forelimb grip performance was tested similarly. In this application, the bench was removed from the apparatus, and the rats were placed so that the forefeet were on the screen and the hindfeet on the smooth horizontal plastic surface. The test sequence was the same as for hindlimb testing.

SURGERY: Surgical implantation of epidural electrodes was performed 10 weeks into the study. Surgery was completed in counterbalanced order. Surgery for each half of the study was accomplished in five days. Anesthesia was induced by methoxyflurane and maintained with isoflurane. Once an animal was anesthetized, the eyes were treated with an ophthalmic ointment and the eyelids were closed with skin clips to prevent corneal drying and retinal damage by the lights. Once placed in the stereotaxic instrument (#900, David Kopf Instruments, Tujunga, CA), the rat had a rectal thermistor inserted 7 cm into the rectum to monitor core temperature during surgery. Body temperature was supported with a warm water blanket.

Epidural electrodes (7-mm long, #0-80, stainless-steel set screws) were inserted into the skull and supported with dental acrylic. The top 3 mm of the set screws remained exposed above the acrylic so recording leads could be directly attached to the screws (an electrical plug was not used). The somatosensory electrode was placed 2.0 mm posterior and 2.0 mm lateral left of bregma, the visual cortex electrode was placed 1.5 mm anterior and 3.0 mm lateral right of lambda, and the cerebellar electrode was located 3.0 mm posterior and 0.0 mm

lateral of lambda. A reference electrode was placed 8.0 mm anterior and 1.0 mm lateral left of bregma.

POSTEXPOSURE TESTS: The following data were collected beginning 65 or more hours after 13 weeks of exposure: functional observational battery (FOB), grip performance, flash evoked potential (FEP), cortical flicker response (CFR), auditory brainstem response to clicks (ABR_C), auditory brainstem response to tone pips at 10 kHz (ABR₁₀) and 30 kHz (ABR₃₀), somatosensory evoked potentials recorded from the sensory cortex (SEP-S) and from the cerebellum (SEP-C), and caudal nerve action potentials to single stimulus (CNAP₁) and paired stimuli (CNAP₂). Rats were physically restrained during electrophysiological testing, which took about 35 min for the test battery.

Electrophysiological System: The electrophysiological system was a Nicolet Pathfinder II (Nicolet Biomedical Instruments, Madison, WI). Data sweeps (msec segments of EEG) were digitally sampled 512 times and averaged by an online computer. Rectal temperature was recorded prior to each electrophysiological test except the caudal nerve test, when tail temperatures were taken.

The physical parameters for the different evoked potential tests are listed in Table 2. Rats were physically restrained during electrophysiological testing. Several tests were conducted:

- (1) Flash Evoked Potential (FEP, medium intensity) was recorded from the visual cortex (FEP-V) and from the cerebellum (FEP-C). The FEP-C was considered ancillary data only, was qualitatively evaluated, and was placed in the study file.
- (2) Cortical Flicker Response (CFR): A CFR, at a flash rate of 48 flashes/second, was collected. A simultaneous plus-minus average was recorded to provide a reference or baseline (noise) to which the signal (normal average) was compared. The variance of the voltage

across each response was determined and the signal variance to noise variance ratio was calculated.

(3) Auditory Brainstem Response to Clicks (ABR_C).

Table 2: Physical parameters of electrophysiological tests.

Test	Stimulus	Stimulus Intensity	Stimulus Rate/sec	Amplifier Filters (Hz)	Sweep Duration (msec)	Number of Sweeps
FEP*	Flash	1.3 cd-s/m ²	0.7	0.5 - 500	150 & 750	200
CFR	Flash	1.3 cd-s/m ²	48	0.5 - 500	25	200
ABR _C †	Click	75 dB linear	29.1	100 - 3000	12	2,000
ABR ₁₀ †	10 kHz tone	70 dB linear	29.1	100 - 3000	12	2,000
ABR ₃₀ †	30 kHz tone	80 dB linear	29.1	100 - 3000	12	2,000
SEP	Electrical	3 mA, 50 μsec	1.1	1 - 1500	35 & 150	200
CNAP	Electrical	3 mA, 20 μsec	10.1	1 - 3000	20	200

* Calibrated with a United Detector Technology 350 photodetector (plus 111 filter and lumilens 1153) placed in the same position as the rat, facing a white reflective surface (cubicle wall) opposite the strobe.

† The distance from speaker to ears was about 17 cm. Sound pressure level calibrated on linear scale with a Bruel & Kjaer Model 2230 with 1/4 inch condenser microphone model 4135 placed in the restrainer at the location of the ears (rat removed).

(4) Auditory Brainstem Response to Tone Pips (ABR₁₀ and ABR₃₀):

Auditory brainstem responses to tone pips were tested at middle and high frequencies (10 kHz and 30 kHz). Each tone pip had a 2.25-msec rise/fall ramp and no plateau (4.5-msec total duration).

(5) Somatosensory Evoked Potentials (SEP-S and SEP-C): Ventrolateral caudal nerves were stimulated at the base of the tail and a response was recorded at the somatosensory cortex (SEP-S) and from the cerebellum

(SEP-C). The stimulating electrodes were small needles set into the bottom of a plastic tray that fit the tail (Rebert, 1983).

- (6) Caudal Nerve Action Potentials (CNAP): Ventrolateral caudal nerves were stimulated near the tip of the tail and mixed nerve action potentials from single stimuli (CNAP₁) were recorded at the base of the tail (Rebert, 1983). The stimulating and recording electrodes (separated by 9 cm) were mounted in a plastic tray. Subsequently, the nerves were stimulated with a pair of pulses (CNAP₂ with interstimulus interval of 3 msec).

WAVEFORM ANALYSES:

Digital Filtering: A computer routine (Nicolet Biomedical Instruments, Madison, WI) digitally filters each of the waveforms that were collected with a broad-band analog filter. Digital filter settings are as follows: FEP 1-250 Hz; SEP-S and SEP-C with a 35-msec data sweep filtered at 85-750 Hz; SEP-S and SEP-C recorded with a 150-msec data sweep filtered at 1-500 Hz. The early components of the SEP were high-pass filtered above 85 Hz to cause the computerized cross-correlation/latency calculations to emphasize the higher frequency components. This high-pass filtration causes the computer to simulate more accurately human waveform evaluations, which emphasize the details contained in the higher frequency components.

Waveform Illustrations: Figures were prepared of group composites, by sex, of all evoked potentials at all dose levels.

Quantitative Analyses: Evoked potential waveforms were collected from all test animals, and individual and group composite waveforms visually examined. Waveforms from all treatment groups and control animals were statistically evaluated.

An automated computer technique analyzed the FEP-V, SEP-S, SEP-C, ABR_C, ABR₁₀, ABR₃₀ and CNAP single and paired pulse data by quantification of differences from a template in waveform shape, latency and power. A template for each type of response was created by making a 'grand average' of all the control records for each sex. A window (starting and ending point in msec) was established for each type of response. The window widths for automated computer scoring were: FEP = 35-95.1 msec, FEP 94.5-280, ABR (click) = 1.0-5.0 msec, ABR₁₀ = 1.5-5.9 msec, ABR₃₀ = 1.5-5.5 msec, SEP-C = 4-18 and 18-70 msec, SEP-S 4.0-16.5 and 16.5-90.0 msec, CNAP (single stimulus) = 2.8-7.4 msec, CNAP (paired stimuli) = 6.0-10.0 msec.

The computerized analysis included optimal correlation of an individual waveform to the template waveform, the latency difference (phase shift in msec required to reach optimal correlation), and total power in the window (RMS volts). Subsequent to computerized waveform evaluation, the computers' measurements of latency difference for each waveform for each animal were visually confirmed by an experienced auditor having no knowledge of animal identity or treatment. When the computerized analysis was determined to be in error (usually due to mismatching of peaks), the auditor's value was accepted and a new cross-correlation coefficient was calculated.

An alternative to power analysis was conducted on the N₃ component of the FEP waveform. The baseline-to-peak amplitude for the N₃ component was determined and statistically analyzed.

Statistical Analyses: Electrophysiology data (optimal correlation, latency difference and power) were analyzed by a factorial multivariate analysis of variance (MANOVA), using the general linear model (GLM) procedure of SAS (SAS Institute Incorporated, Cary, NC). The factors were treatment, sex and group. The main effects of treatment, sex, group, and interactions of sex-by-treatment and group-by-treatment were assessed by an F-test based on the

Hotelling-Lawley trace statistics. Multivariate contrasts of each treatment level versus control were conducted using the overall variance/covariance structure (pooled variance). Body weight and body temperature were used as covariates for electrophysiological measures.

The statistical procedure also provided analogous univariate analyses of variance (ANOVA) for the 3 dependent variables of the MANOVA: optimal correlation, latency difference and power. The series of temperatures collected during electrophysiological testing were analyzed by factorial MANOVA/ANOVA. Grip performance data (forelimb and hindlimb) were analyzed by factorial MANOVA/ANOVA, and body weight was used as a covariate. Body weight was analyzed by factorial repeated-measure ANOVA (rep-ANOVA; preexposure, 1 mo., 2 mo., and 3 mo.). Brain weights and cortical flicker response (CFR) were tested with the factorial ANOVA.

Because correlation values are often high (0.8 to 1.0) and, therefore, not well distributed for parametric analysis, the r values were arcsine transformed before statistical analysis. On the other hand, *post hoc* transformations were not conducted since they would weaken the integrity of the probability values derived from such data (Muller et al., 1984).

Each variable was tested for homogeneity of variance by the F-max test (Bruning and Kintz, 1977). If heterogeneity of variance occurred and was attributable to one or two outlying data points, then these data were removed from parametric analysis and the data from these animals were discussed separately.

Alpha adjustment for multiple statistical tests: This was an exploratory study in which numerous measurements were statistically compared in the same group of animals (Table 3). For this reason, a modest alpha correction was made to adjust for repetitive testing. Probability values, however, are reported uncorrected.

Table 3. List of Tests that Require Statistical Analysis

<u>TESTS</u>	<u>TEST STATISTIC</u>
Body weight (weekly, test days)	rep-ANOVA (T,S,G)
Grip performance (4x)	MANOVA (T,S,G)/2 ANOVAs
Flash Evoked Potential	
Early latency (3 var)	MANOVA (T,S,G)/3 ANOVAs
Long latency (3 var)	MANOVA (T,S,G)/3 ANOVAs
Cortical Flicker Response	ANOVA (T,S,G)
Auditory Brainstem Response	
Click (3 var)	MANOVA (T,S,G)/3 ANOVAs
10 kHz (3 var)	MANOVA (T,S,G)/3 ANOVAs
30 kHz (3 var)	MANOVA (T,S,G)/3 ANOVAs
Somatosensory Evoked Potential	
Sensory Cortex	
Early latency (3 var)	MANOVA (T,S,G)/3 ANOVAs
Long latency (3 var)	MANOVA (T,S,G)/3 ANOVAs
Cerebellar Cortex	
Early latency (3 var)	MANOVA (T,S,G)/3 ANOVAs
Long latency (3 var)	MANOVA (T,S,G)/3 ANOVAs
Caudal Nerve Action Potential	
Single pulse (3 var)	MANOVA (T,S,G)/3 ANOVAs
Second of pair (3 var)	MANOVA (T,S,G)/3 ANOVAs
Temperatures during electrophysiology (6 times)	MANOVA (T,S,G)/6 ANOVAs
Brain weight	ANOVA (T,S)

(T,S,G) are factors: T=treatment, S=sex, G=group

Body weight and body temperature were used as covariates for evoked potential analyses, and body weight was used as a covariate for grip performance and brain weight analyses.

If one were to consider only the first level of statistical analysis (one overall ANOVA or MANOVA for each test), and not consider the statistical analyses of different doses vs control nor the individual variables within each MANOVA, then there were about 17 primary statistical analyses. A

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Bonferroni correction would lead to a corrected alpha of $0.05 \div 17 = 0.0029$. Obviously, little statistical power would remain if one used a Bonferroni correction.

Tukey et al. (1985) recommended a more modest correction, wherein alpha (0.05) is divided by the square root of the number of variables in a group of tests. If, to be more conservative, alpha were divided by the square root of the number of tests rather than the number of variables, then test alpha would equal $0.05 \div \sqrt{17} = 0.0121$. To be more conservative yet, and remain in general accord to the alpha correction concepts of Tukey et al. (1985), a test level alpha of 0.02 was selected, and variables within MANOVAs have an alpha of 0.01. Tests were body weights, grip performance, and the specific electrophysiologic tests listed in Table 3.

The final interpretation of the numerical data considered statistical analyses along with other factors such as dose-response relationships, waveform shapes, and whether the results were meaningful in light of other biologic findings.

NEUROPATHOLOGY: After completion of 90 days on study, 10 rats per group (5 rats of each sex) were randomly selected for neuropathology. Animals were perfused *in situ* by the following method.

Rats were heparinized 10 minutes before perfusion with 0.2 ml (10000 USP/ml) per kg body weight followed by methoxyflurane anesthesia. While under anesthesia, the rats were perfused with 0.05M phosphate buffer followed by a phosphate-buffered (0.5M) solution of 1.5% glutaraldehyde - 4% formaldehyde. The brains of perfused rats were weighed. Tissues (Table 4) were collected and stored in phosphate buffered glutaraldehyde/formaldehyde solution.

Gross pathological examination by a veterinary pathologist was as thorough as possible for perfused tissues. Animals that dislodged implants were euthanatized and necropsied, but were not perfused.

Because of forelimb grip performance findings, of the rats held 7 weeks postexposure, 10 control and 10 high concentration rats (5 rats of each sex) were randomly selected for necropsy, perfusion fixation and histopathologic examination of forelimb nerves (median and digital) and muscles. Five rats of each sex from intermediate exposure levels were necropsied and immersion fixed. No tissues were examined in these postexposure intermediate exposure level rats.

The following tissues, from the control and high concentration groups, were examined with light microscopy: forebrain, center of cerebrum, midbrain, cerebellum and pons, and medulla oblongata, Gasserian ganglion, spinal cord (cervical and lumbar enlargements), dorsal and ventral roots (C₃-C₆ and L₁-L₄; at least 2 from each region), dorsal root ganglia (C₃-C₆ and L₁-L₄; at least 2 from each region), peripheral nerves [sciatic, tibial, sural and digital (recovery only)] and eyes with optic nerves. Forelimb muscles (deep digital flexor), and median and digital nerves were examined in control and high concentration groups held 7 weeks postexposure. Tissues from animals exposed to lower concentrations were not examined because of a lack of treatment-related histologic findings at the top exposure level.

Tissue were sectioned and routinely stained with hematoxylin and eosin (H & E). Because no treatment-related lesions were seen, special stains (Table 4) for myelin (LFB-PAS), axons (silver), and neurons (cresyl echt violet) were performed on nervous system tissue.

Table 4. Tissue List and Stains

	<u>Stains</u>			
	<u>General</u> ^a	<u>Myelin</u> ^b	<u>Axons</u> ^c	<u>Cell bodies</u> ^d
Forebrain	+	+	+	+
Center of Cerebrum	+	+	+	+
Cerebellum and Pons	+	+	+	+
Midbrain	+	+	+	+
Medulla oblongata	+	+	+	+
Spinal cord (cross section and tangential)				
Cervical Swelling (C ₃ -C ₆)	+	+	+	+
Lumbar Swelling (L ₁ -L ₄)	+	+	+	+
Dorsal Root Ganglia (C ₃ -C ₆);(L ₁ -L ₄)	+	+	+	+
Dorsal and Ventral Root (C ₃ -C ₆);(L ₁ -L ₄)	+	+	+	+
Gasserian ganglia	+	+	+	+
Proximal sciatic nerve*	+	+	+	-
Tibial nerve*	+	+	+	-
Eyes	+	-	-	-
Optic nerve	+	-	-	-
Sural nerve	+	+	+	+
Median nerve (recovery only)	+	+	+	+
Digital (recovery only)	+	+	+	+
Caudal nerve (saved)	-	-	-	-
Head (saved)	-	-	-	-
Skeletal muscle (gastrocnemius)	+	-	-	-

+ procedure performed; - procedure not performed

*Both legs saved but only right leg nerves collected.

^a Hematoxylin and eosin^b Luxol fast blue - periodic acid-Schiff^c Silver^d Cresyl echt violet

RESULTS

TEST ATMOSPHERE: The mean analytical concentrations of 1,1,1-T in the chambers during exposures were 0, 209, 620, and 2016 ppm for the targeted levels of 0, 200, 630 and 2000 ppm, respectively. Mean nominal concentrations were 224, 656 and 2207 ppm. The temperature and relative humidity in all chambers were comparable (Table 5).

OVERALL PERSPECTIVE: Although evoked potentials were significantly altered during acute exposure to 1,1,1-T at 1000 and 2000 ppm, no persistent treatment-related differences in evoked potential waveforms were discovered after 13 weeks of 1,1,1-T exposure. Of specific interest in solvent studies was the lack of a persistent effect on cortically generated components of the waveforms. The only statistically significant finding was a smaller forelimb grip performance for 2000-ppm rats after 13 weeks of exposure and again 7 weeks postexposure. Although forelimb grip performance was smaller in 2000-ppm rats, all groups, including controls, had a markedly increased forelimb grip performance at 7 weeks postexposure. The cause of these forelimb grip performance differences, and postexposure rebound, was not determined. No alterations in hindlimb grip performance occurred. No alterations were noted in electrophysiology of peripheral nerves, spinal cord or brain. No alterations were noted in the weekly clinical examinations or in the monthly functional observational batteries. No treatment-related lesions were noted in brain, spinal cord, peripheral nerves (including forelimb digital nerves), or limb muscles.

WEEKLY CLINICAL OBSERVATIONS: Rats remained in very good health throughout the study, and there were no treatment-related clinical observations (Tables 6 and 7).

BODY WEIGHTS: Body weights were virtually unaffected by treatment

(Tables 8 and 9). Top exposure level males weighed 3% more than controls, and top exposure level females weighed 1.5% more than controls. Although body weights were comparable between treated and control rats, body weight (independent of treatment) was a significant covariate in SEP-C (Table 40), and for preexposure grip performance (Table 14).

FUNCTIONAL OBSERVATIONAL BATTERY: No treatment-related effects were seen on the FOB (Tables 10 and 11). No differences were noted in gait or posture, in muscle tone, or in hindlimb extensor thrust responses. Sensory responses were judged normal, as were overall activity and reactivity.

GRIP PERFORMANCE: Hindlimb grip performance gradually increased (Figure 1; Table 12), while forelimb grip performance slightly decreased throughout exposure (Figure 2; Table 13). Forelimb grip performance showed a remarkable increase in all test groups 7 weeks postexposure. This forelimb 'rebound' effect was greatest in control female rats, but was apparent in all test groups.

There were no significant treatment-related differences in hindlimb grip performance at any time in the study (Tables 14-18), but forelimb grip performance was 9% less in male and 20% less in female 2000-ppm rats after 13 weeks of treatment (Table 13). These differences were statistically significant (Table 17). Forelimb grip performance of 2000-ppm rats was less than controls again at 7 weeks postexposure (Table 13 and 18). There were no correlative findings in any of the other measures in evoked potentials, clinical observations, FOBs or pathology to explain the forelimb grip differences.

BODY AND TAIL TEMPERATURES: Body temperatures were taken just before each electrophysiological test (Tables 19 and 20). No statistically significant differences were found. Body temperatures of male rats from the 2000-ppm group were slightly higher than those of controls (0.2 to 0.4°C,

depending on the test). Body temperatures from 2000-ppm females were approximately 0.1° less than controls. Tail temperatures of both male and female rats from the 2000-ppm group were only 0.1°C different from controls. Although body temperatures were comparable between treated and control rats, temperature was a significant covariate (independent of treatment) on numerous evoked potential tests: FEP (Table 22); ABRs, both for clicks and tone-pips (Table 30, 32 and 34); SEP (Table 36).

FLASH EVOKED POTENTIALS (FEPs): FEP-Vs from control and treated rats were very similar (Figure 3 and 4), although careful examination of 200-ppm female FEPs (Figure 4) reveals a faster waveform at 95 to 280 msec (peaks P3-N3). Overall, this area of the 200-ppm female FEP is about 13 msec faster than controls ($p = 0.006$; Tables 23, 24). No other significant treatment-related findings occurred at any exposure level (Tables 21-24), there was no dose-response relationship, and males did not respond similarly. Thus, there was no supporting data to conclude that the faster FEPs in 200-ppm females were a treatment-related effect.

The baseline-to-peak amplitudes of N3 were somewhat larger in males than females (independent of treatment), but were very similar in amplitude across treatment groups. No statistically significant N3 amplitude differences were detected (Table 25 and 26). FEP-Cs (cerebellar lead) showed no qualitative differences between treatment groups, and FEP-C individual animal waveforms and group composite waveforms were placed in the study file.

CORTICAL FLICKER RESPONSE (CFR): The cortical flicker response was very similar across all treatment groups (Table 27). No statistically significant differences were found (Table 28).

AUDITORY BRAINSTEM RESPONSES (ABRs): Neither visual examination nor statistical analyses of ABR_C, ABR₁₀ or ABR₃₀ waveforms revealed any evidence of treatment (Figures 5-10; Tables 29-34).

SOMATOSENSORY EVOKED POTENTIALS: Neither visual examination nor statistical analyses of SEP-Ss or SEP-Cs revealed any evidence of treatment (Figures 11-14; Tables 35-42).

CAUDAL NERVE ACTION POTENTIALS: Neither visual examination nor statistical analyses of CNAPs (single or paired pulses) revealed any evidence of treatment-related effects (Figures 15-18; Tables 43-46).

OUTLIERS: No treatment-related pattern was discerned in data from outliers, which are identified in Table 47. Overall, 14 values were outliers, one each from 14 different rats; controls had 3/14; 200 ppm had 3/14; 630 ppm had 4/14 and 2000 ppm had 4/14. Females had 8/14 and males had 6/14. Statistics in the tables are marked and footnoted when outliers had been removed.

ANIMALS REMOVED FROM STUDY: Four rats per dose level, 16 rats total, were removed from the study for miscellaneous reasons (Table 48). One rat died of accidental trauma, one was found dead, one moribund, and one rat had no diagnostic classification. Four rats died from the anesthetic procedure. A methods change was instituted to insure that the tongue is clear of the airway when the head is in the stereotaxic apparatus. There were no subsequent anesthetic problems. Eight rats were removed from the study because of dislodgement of the electrode implants; five implants were lost during the exposure/testing portion of the study, and three were lost during the postexposure period. This rate of implant loss was unexpectedly high, and appeared to be due to a surgical technique change that diminished the bone-acrylic bond (the moisture content of bone at the acrylic interface was too high). This bonding problem has been solved.

GROSS PATHOLOGY: None of the gross pathologic observations (Tables 49 and 50) were related to treatment with 1,1,1-T. Some gross observations were associated with the electrode implant or the implant surgical procedure. Other gross observations were incidental and represented background findings for F344 rats of a similar age. Brain weights collected at the end of 13 weeks of exposure were unaffected by treatment (Table 51).

MICROSCOPIC PATHOLOGY: None of the histopathologic observations in rats exposed to 2000 ppm 1,1,1-T for 13 weeks were attributed to the test compound (Tables 52 and 53). Observations in control and treated animals were similar in incidence. Most observations represented background findings of F344 rats of similar age or were attributed to the electrode implant or the implant surgical procedure.

DISCUSSION

Rats in this subchronic inhalation neurotoxicity study were exposed to 1,1,1-trichloroethane (1,1,1-T) at concentrations up to 2000 ppm, levels high enough to alter CNS function acutely (Kjellstrand et al., 1985; Albee et al., 1990a), and high enough to cause mild systemic toxicity (Quast et al., 1988; Calhoun et al., 1981). Although exposure of rats to 1000 ppm alters EEG and evoked potentials, the neurofunctional effects of lower 1,1,1-T exposures have not been carefully evaluated in experimental animals. Task performance of human beings, however, appeared to be affected during exposure to 350 ppm, and perhaps as low as 175 ppm (Mackay et al., 1987).

In spite of subchronic exposure to 1,1,1-T at levels sufficient to alter acutely CNS function, no persistent changes were noted in evoked potentials. Of indirect relevance to questions of higher order CNS dysfunction (i.e., cognitive effects of solvent exposure) was the lack of treatment-related differences in flash evoked potentials, which are generated entirely in the cerebral cortex, and a lack of change in the longer latency components of the

somatosensory evoked potential, which also are generated in the cerebral cortex (Mattsson et al., 1991). Because of very complex cortical-cortical loops, and cortical-subcortical-cortical loops, evoked cortical activity lasts for up to hundreds of milliseconds. It is these longer latency potentials that are most affected by differences in attention, alertness, and many other psychological states and mental disorders (Shagass et al., 1986; Spehlmann, 1985). Thus, CNS conditions associated with psychiatric and cognitive dysfunction also cause alterations in evoked potentials, indirectly via altered attentional states, and directly via altered processing of sensory information.

The lack of evoked potential effects raises a question of statistical and experimental power. Although statistical power for MANOVA is unknown (due to the complexity of the calculations), our coefficients of variation were reasonably small, and sample sizes reasonably large (see Results). Thus, reasonable statistical power was likely present. Experimental power is best demonstrated in other studies in our laboratory, which have detected psychophysiological, pharmacological, and pathological changes in evoked potentials.

Transient changes in control rat evoked potentials have occurred after 6 hrs exposure to air, presumably from psychophysiological effects due to experimental conditions (Albee et al., 1990a). In the same study, different effects on evoked potentials were seen during exposure to 1,1,1-T (pharmacological effects). Mild diet restriction for one month, causing a 9% decrease in body weight compared to free fed controls, was associated with evoked potential differences that probably were psychologically associated rather than evidence of nutritional pathology (Albee et al., 1987). Subchronic exposure of rats to toluene in an 'abuse' paradigm (repeated, short, high-level exposures) caused dramatic slowing and disorganization of the flash evoked potential, severe flattening of high frequency auditory brainstem responses, and smaller effects on somatosensory evoked potentials (Mattsson et al., 1990b). These toluene effects occurred in the absence of neuropathologic changes (perfusion, extensive light microscopy). Subchronic

exposure to 100 ppm sulfuryl fluoride, a level too low to create brain lesions, caused slowing of visual, auditory and somatosensory evoked potentials (Mattsson et al., 1988). A rat model of cretinism, caused by very mild congenital hypothyroidism, also demonstrated evoked potential changes (Albee et al., 1990b). Thus, the general experimental design used in this 1,1,1-T study can detect CNS changes from many different etiologies.

Although no changes in evoked potentials were detected in this subchronic 1,1,1-T study, rats exposed to 2000 ppm 1,1,1-T had a decreased forelimb grip performance (Table 15). Hindlimb grip performance and virtually all other neurofunctional and neuromorphologic measures were within normal limits.

In the absence of correlative information, the meaning of the decreased forelimb grip performance was obscure. Consequently, several potential interpretations of decreased forelimb grip performance will be discussed: (1) A statistically false positive finding (unlikely); (2) An indicator of systemic toxicity (considered unlikely); (3) An indicator of neuropathy (extremely unlikely); (4) An indicator of myopathy (unlikely); (5) A natural but modified consequence of repetitive testing (most likely); (6) An effect of unknown origin (also correct).

(1) Decreased forelimb grip performance as a statistically false positive finding: Control vs 2000 ppm forelimb grip differences had ANOVA $p = 0.0004$, females had an apparent dose-response relationship, and the results were substantially repeated 7 weeks postexposure. Although the grip differences were not large, it appears that they were real.

(2) Decreased forelimb grip performance as an indicator of systemic toxicity: The top 1,1,1-T exposure level of 2000 ppm may have caused mild systemic toxicity as indicated by previous subchronic and chronic studies (Quast et al., 1988; Calhoun et al., 1981). Mild systemic toxicity is, however, an unlikely

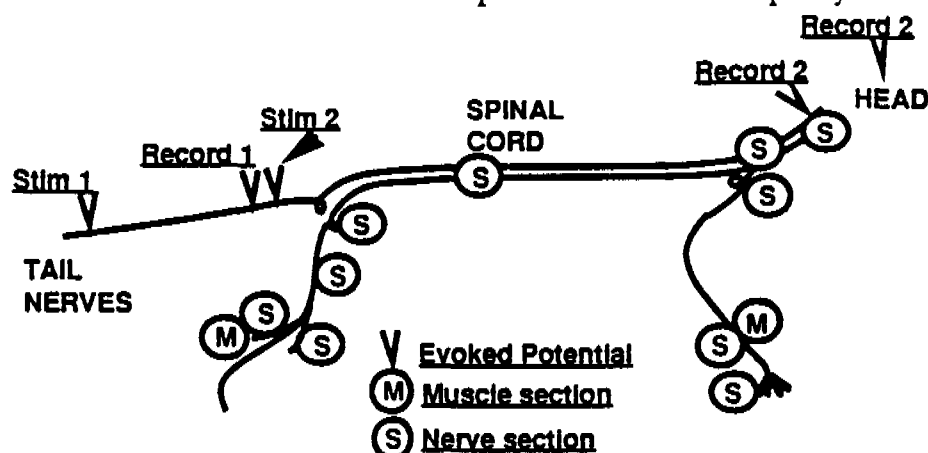
cause of a differential effect only on forelimb grip performance. Tilson et al. (1979) postulated that systemic toxicity should affect both forelimb and hindlimb function. This opinion was supported by their polybrominated biphenyl (PBB) study (Tilson et al., 1979). Rats were treated with PBB to cause systemic toxicity and PBB treated rats did have decreases in motor activity and decreased forelimb and hindlimb grip performance.

(3) Decreased forelimb grip performance as an indicator of neuropathy: This 1,1,1-T neurotoxicity study had a large number of clinical observations, evoked potential measures, and nervous system histologic evaluations that converge on the question of neuropathy (Figure 19). There was no convergence of findings supportive of a diagnosis of neuropathy, and it was concluded that the forelimb grip differences were not the result of neuropathy.

Central-peripheral distal axonopathy, by definition, affects the longest axonal pathways first. The longest axonal pathways are in the tail of rats, and in the hindlimbs and spinal cord dorsal column. Consistent with this model, neuropathy, as caused by CS₂, acrylamide, 2,5-hexanedione and zinc pyridinethione all affect hindlimb grip performance before forelimb grip performance (Tilson et al., 1979; O'Donoghue, 1989; Ross and Lawhorn, 1990). Hindlimb grip performance was unaffected by subchronic exposure to 1,1,1-T (Table 15), and therefore was non-supportive of a diagnosis of distal axonopathy.

The central component of central-peripheral distal axonopathy lies in the dorsal column of the spinal cord. Because of the length of the pathway, the distal extreme of the dorsal-column pathway, the area of the gracile nucleus, was particularly important in neurotoxicity evaluations (Arezzo et al., 1982). Gracile components of the somatosensory evoked potential (SEP) show the

Figure 19: Examination for Central-Peripheral Distal Neuropathy

**Evoked Potentials**

somatosensory evoked potential
peaks at proximal spinal cord
and midbrain
caudal nerve potentials from single
and paired pulses

Observations

coordination and posture
responsiveness of tail to light touch
muscle tone
extensor thrust reflex
reaction to tail pinch
grip performance

Histopathology

lower brain stem (nucleus gracilis)
upper spinal cord
lower spinal cord
spinal roots and ganglia (cervical
& lumbar)
sciatic nerve
tibial nerve (to calf muscles)
sural nerve
calf muscle
median nerve (7 wks postexposure)
forefoot digital nerves (7 wks post.)
forearm muscles (7 wks postexposure)

initial dysfunction from acrylamide neuropathy, and SEP changes precede behavioral alterations and appear coincident with the earliest detectable morphological changes (Arezzo et al., 1982). For these reasons, the dorsal column and gracile area were evaluated in the 1,1,1-T study by SEPs and by histopathological examination. Exposure to 1,1,1-T had no effect on either the SEPs or dorsal column morphology (Tables 35, 36, 39, 40, 50; Figures 11-14).

The peripheral components of central-peripheral distal axonopathy are the peripheral nerves, and the longest peripheral nerves are in the tail and

hindlimbs. For this reason, caudal nerve action potentials (CNAPs) were evaluated, and hindlimb nerves and muscle were histopathologically examined. CNAPs and hindlimb nerve and muscle morphology were not affected by 1,1,1-T (Tables 43-46, 50; Figures 15, 16).

Forelimb tissues are not routinely examined nor saved because of the affinity of distal axonopathy for the hindlimb. With the advent of forelimb grip testing, however, it is likely that forelimb tissues will, at the least, be saved in future neurotoxicity studies. In this 1,1,1-T study, the realization of forelimb grip differences occurred after the 13-week necropsy, and forelimb tissues were not saved at necropsy. The forelimb grip effect was present, however, in the rats kept 7 weeks postexposure, and forelimbs from those rats were examined carefully at necropsy and histopathologically. Muscle, median nerve, and digital nerves from the forelimbs were normal.

Finally, neuropathies are characterized by a considerable amount of recovery postexposure (Tilson et al., 1979; Maurissen et al., 1983; Ross and Lawhorn, 1990). The persistence of the forelimb grip effect for 7 wks postexposure, therefore, is nonsupportive of a diagnosis of neuropathy.

(4) Decreased forelimb grip performance as an indicator of myopathy: Myopathy would be expected to alter clinical observations of muscle tone, posture and gait, to affect grip performance, and to cause morphologic muscle changes. Except for forelimb grip differences, none of these other events occurred. It is difficult to generate a hypothesis of myopathy affecting only the forelimb, and in the absence of any other measures indicative of myopathy, it was concluded that myopathy was not the cause of the forelimb grip effect.

(5) Decreased forelimb grip performance as a natural but modified consequence of repetitive testing: Grip performance requires some degree of 'cooperation' by the rat (O'Donoghue, 1989), and therefore has both a behavioral element and a physiological element (integrity of nerve, muscle

and digits). Grip performance is not placed under control of any obvious positive reinforcement. In fact, jarring a firm grip may negatively reinforce the rat's gripping behavior and decrease the probability of such behavior. Failure to grip may have less aversive properties. Thus, with repetitive testing (three valid trials per test per limb, plus a trial or two ruled invalid due to incorrect posture, repeated several times per study), the rat has an opportunity to develop a new behavioral pattern during the grip test.

Alternatively, it is a common observation in longer duration studies that the rats get much easier to handle. Perhaps, therefore, rats simply develop an overall habituation to experimental manipulation and handling. Whether the rats simply habituate to the experiment, or alter their behavior specifically towards forelimb grip performance is not known, but grip-performance changes over time are different between forelimb and hindlimb.

In control data from repetitive test studies, hindlimb grip performance tends to increase with growth. In contrast, forelimb grip performance tends to either increase more slowly than hindlimb performance, or actually to decrease. The result is a decrease in forelimb performance relative to hindlimb performance (Table 54).

Data from several studies indicate, therefore, that a decrease in forelimb grip performance during a repetitive testing study is a normal event. An additional question in the 1,1,1-T study, however, is why the forelimb grip decrease was greater in the 2000 ppm group than in the other groups or controls. This is a moot point, for there is no clear answer.

One can speculate that the sedative properties of 2000 ppm 1,1,1-T exposures altered the rats' interactions with their environment. Conceivably, the high-exposure rats were less stressed than controls by experimental procedures (placement into chambers, no access to food or water, other chamber experiences, etc.), and became more habituated to experimental conditions,

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including grip testing. That the overall experiment must have had some effect on behavior can be seen in the postexposure forelimb grip performances (Figure 2). Forelimb grip performance increased dramatically in all groups at the 7-week postexposure test. A comparable effect did not occur for hindlimb grip performance.

Table 54: Rat forelimb:hindlimb grip ratio, preexposure and at end of treatment or end of experiment.

	(1) CM	(2) CM	(3) CM	1,1,1-T CM	1,1,1-T TM	1,1,1-T CF	1,1,1-T TF
preexp	~ 3.1	~ 2.0	~ 1.4	~ 1.4	~ 1.3	~ 1.8	~ 1.6
end exp	~ 2.6	~ 1.3	~ 0.8	~ 1.1	~ 0.9	~ 1.2	~ 1.0
% decr.	16	35	42	21	31	33	38
Duration	~ 5 wk	~ 10 wk	~ 13 wk	~ 13 wk	~ 13 wk	~ 13 wk	~ 13 wk
# tests	6	22	9	4	4	4	4

CM=control males; CF=control females; TM=2000 ppm males; TF=2000 ppm females

- (1) Squibb et al., 1983; F344 males, apparatus of Meyer et al., 1979. Control hindlimb grip performance remained relatively constant over time, while forelimb grip slightly decreased.
- (2) Ross and Lawhorn, 1990; F344 males, apparatus of Meyer et al., 1979. Control forelimb and hindlimb grip decreased dramatically with repetitive testing; a plateau grip performance, with forelimb less than hindlimb, was reached about 50 days into the study.
- (3) O'Donoghue, 1989; Male rats, strain unknown, apparatus of Mattsson et al., 1986. Control forelimb grip was greater than hindlimb at -3 hr, 1 hr, 6 hr, 1 day, but hindlimb grip was somewhat greater than forelimb on days 7 and 14, and hindlimb grip was clearly greater than forelimb on days 30, 60 and 90. Both forelimb and hindlimb grip increased with age and body weight, forelimb less than hindlimb.

It appears, therefore, that forelimb grip performance habituates over time as a function of experimental conditions, and that the daily sedative effects of 2000 ppm 1,1,1-T may have had an interaction with the habituation process.

(6) Decreased forelimb grip performance as an effect of unknown origin: Systemic toxicity, peripheral neuropathy, and myopathy were systematically excluded from the list of differential diagnoses, and a plausible hypothesis of altered habituation to experimental conditions was advanced. In the final analysis, however, the reason for a smaller forelimb grip performance in 2000 ppm rats is unknown.

As mentioned above, forelimb grip behavior depends on two factors, the physiological ability to grip the screen, and the probability of gripping it. No findings in this 1,1,1-T study point to a decreased ability of the rat, but there were indications that the 2000-ppm rats were less prone to grasp the screen. Since decreases in forelimb grip performance occur naturally in subchronic studies (Table 54), and the rat's gripping behavior is not placed under any positive contingencies of reinforcement, it would be difficult to construe that these differences in grip performance are adverse. It is possible, however, that a decrease in forelimb grip performance minimizes physical strain on the forelimbs and paws, as well as discomfort or injury to digital skin and toenails.

In conclusion, evoked potentials were unaffected in this 1,1,1-T study, and the only treatment related finding was a slightly smaller forelimb grip performance in the 2000-ppm exposure group. Forelimb grip performance normally decreases (habituates) over time as a function of experimental conditions, and it is speculated that the daily acute-sedative effects of 2000 ppm 1,1,1-T may have had an interaction with the habituation process. Other than a possible indicator of acute sedation, there was no recognized toxicologic significance to this difference in forelimb grip performance.

Acknowledgements

This 1,1,1-trichloroethane study was complicated and required a large amount of support. In particular, we wish to express our great appreciation to the animal care personnel, and to Lee Ann Pugh, Thomas G. Sanderson, and Deborah L. Winieckie for the neurohistology.

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³ Registered Trademark of The Dow Chemical Company

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TABLE 5: Chamber Exposure Concentrations, Temperature and Relative Humidity

<u>TARGET CONCENTRATION, ppm</u>	<u>0</u>	<u>200</u>	<u>630</u>	<u>2000</u>
Number of Exposures	68	68	68	68
Time-Weighted Average				
Analytical Concentration, ppm ^a	ND	209.0± 4.9	620.2± 18.4	2016.3± 52.1
Range of Analytical				
Concentrations, ppm	ND	190.1-219.9	526.3-640.5	1744.6-2206.0
Nominal Concentration, ppm ^a	ND	224.4± 4.4	656.3± 14.06	2207.2± 111.8
Range of Nominal				
Concentrations, ppm	ND	205.6-233.1	592.2-699.0	1990 - 2622
Temperature, °C ^a				
MIN.	21.1± 0.7	21.2± 0.7	20.6± 0.5	20.9± 0.5
MAX.	21.9± 0.3	22.1± 0.5	21.7± 0.5	21.9± 0.6
Relative Humidity, % ^a	62.7± 6.1	52.8± 2.4	53.1± 2.2	51.4± 2.0

ND = Not Determined.

^a Mean ± Standard Deviation for 68 values

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TABLE 6: Inlife Observations Summary^a - Clinical Exam

SEX: MALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 0 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	14	13	13	13	13
EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS,
ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

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1,1,1-T subchronic neurotoxicity

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TABLE 6, continued: Inlife Observations Summary^a - Clinical Exam

SEX: MALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 200 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	14	14	14	14	14
EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS, ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

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1,1,1-T subchronic neurotoxicity

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TABLE 6, continued: Inlife Observations Summary@ - Clinical Exam

SEX: MALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 630 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	14	13	13	13	13

EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	11
EXCESSIVE CHROMODACRYORRHEA	0	0	0	0	0	0	0	0	0	0	0	0	2
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13

@ DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS,
 ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

1,1,1-T subchronic neurotoxicity

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TABLE 6, continued: Inlife Observations Summary@ - Clinical Exam

SEX: MALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 2000 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	13	13	13	13	13
EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	13	13	13	13	13
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	13	13	13	13	13
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	13	13	13	13	13
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	13	13	13	13	13
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	13	13	13	13	13
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	13	13	13	13	13
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	12	12	12	12	12	14	13	13	12	13	13
PERINEAL SOILING	0	0	2	2	2	2	2	0	0	0	1	0	0

@ DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS,
ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

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1,1,1-T subchronic neurotoxicity

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TABLE 7: Inlife Observations Summary⁰ - Clinical Exam

SEX: FEMALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 0 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	14	14	14	14	14

EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	13	13
EXCESSIVE CHROMODACRYORRHEA	0	0	0	0	0	0	0	0	0	0	0	1	0
EYELIDS CLOSED	0	0	0	0	0	0	0	0	0	0	0	0	1
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14

⁰ DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS,
 ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

1,1,1-T subchronic neurotoxicity

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TABLE 7, continued: Inlife Observations Summary⁰ - Clinical Exam

SEX: FEMALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 200 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	14	13	13	13	13
EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	12
EYELIDS CLOSED	0	0	0	0	0	0	0	0	0	0	0	0	1
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	11	11	11	13
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	13	13	13

⁰ DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS,
ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

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1,1,1-T subchronic neurotoxicity

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TABLE 7, continued: Inlife Observations Summary^a - Clinical Exam

SEX: FEMALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 630 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	14	14	14	14	14
EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	13	14	14	14
EYELIDS SQUINTED	0	0	0	0	0	0	0	0	0	1	0	0	0
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	14	14	14	14

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS.
 ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

1,1,1-T subchronic neurotoxicity

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TABLE 7, continued: In-life Observations Summary[®] - Clinical Exam

SEX: FEMALE	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK	WEEK
SPECIES: RAT	001	002	003	004	005	006	007	008	009	010	011	012	013
CONC: 2000 PPM													
NUMBER OF ANIMALS OBSERVED	14	14	14	14	14	14	14	14	14	12	12	12	12
EYES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	12	12	12	12
FECES AND URINE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	12	12	12	12
GENERAL													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	12	12	12	12
MASS/NODULE													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	12	12	12	12
MOVEMENT/BEHAVIOR													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	12	12	12	12
RESPIRATION													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	12	12	12	12
SKIN, FUR AND MUCOUS MEMBRANES													
WITHIN NORMAL LIMITS	14	14	14	14	14	14	14	14	14	12	12	12	12

[®] DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION RECORDED DURING SCHEDULED CLINICAL EXAMS,
ALL OTHER OBSERVATIONS ARE LISTED ON THE INDIVIDUAL ANIMAL REPORTS.

SL 030762

Table 8: Body Weights (grams), Descriptive Statistics

<u>Conc.</u>		<u>Pre-Exp.</u>	<u>Day 23</u>	<u>Day 51</u>	<u>Day 93</u>	<u>Day 128</u>
<u>Male</u>						
0 ppm	Mean	296.5	317.5	328.8	335.7	356.8
	SD	13.2	16.0	23.1	21.7	21.1
	N	14	14	14	13	7
200 ppm	Mean	295.7	319.9	337.9	339.8	364.6
	SD	12.9	16.7	21.1	29.9	27.2
	N	14	14	14	14	7
630 ppm	Mean	296.6	320.9	341.9	337.3	375.9
	SD	12.2	11.0	17.3	25.1	11.7
	N	14	14	14	13	6
2000 ppm	Mean	298.0	323.5	339.9	346.2	351.3
	SD	12.0	18.7	20.7	25.6	39.0
	N	14	14	14	13	6
<u>Female</u>						
0 ppm	Mean	167.5	178.6	186.4	191.5	196.1
	SD	3.5	5.6	4.7	8.0	7.9
	N	14	14	14	14	7
200 ppm	Mean	167.6	179.0	186.5	189.8	193.3
	SD	3.2	3.5	4.1	4.3	5.4
	N	14	14	14	13	7
630 ppm	Mean	167.3	179.3	186.2	193.3	199.6
	SD	3.6	7.3	7.4	8.5	6.0
	N	14	14	14	14	8
2000 ppm	Mean	167.4	182.6	190.5	194.4	194.7
	SD	3.0	6.3	6.3	7.1	4.3
	N	14	14	14	12	5

Table 9: Body Weights, Statistical Analyses^a

<u>Level</u>	<u>Repeated Measures</u> <u>ANOVA</u>
<u>Between Subjects Effects</u>	
Treatment (T)	0.376
Sex (S)	0.0001
<u>Within Subjects Effects</u>	
Time (t)	0.0001
t X T	0.530
t X S	0.0001

^a Values are actual p values; highlighted values are ANOVA $\alpha < 0.01$.

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TABLE 10: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED	DAY -04 [®]			
	MALES			
	0 14	200 14	630 14	2000 14
EYES (PUPIL SIZE, LACRIMATION, ETC.)	0	0	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)	0	0	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	0	0	0	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	0	0	0	0
SKIN, FUR AND MUCOUS MEMBRANES PAPULES, MUZZLE, RIGHT	0	0	0	1
SENSORY RESPONSIVENESS (TOUCH), AUDITORY, NOCICEPTIVE, VISUAL) AUDITORY RESPONSIVENESS - DECREASED	0	1	0	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0

[®] DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

SL 030765

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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TABLE 10, continued: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED	MONTH 1 ^a			
	MALES			
	0 14	200 14	630 14	2000 14
-----	-----	-----	-----	-----
EYES (PUPIL SIZE, LACRIMATION, ETC.)	0	0	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)	0	0	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	0	0	0	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)				
RESPIRATION SLOW	0	0	0	1
SKIN, FUR AND MUCOUS MEMBRANES	0	0	0	0
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)				
AUDITORY RESPONSIVENESS - DECREASED	1	1	0	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

SL 030766

1,1,1-T subchronic neurotoxicity

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TABLE 10, continued: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED	MONTH 2 ^e			
	MALES			
	0	200	630	2000
	14	14	14	14
-----	-----	-----	-----	-----
EYES (PUPIL SIZE, LACRIMATION, ETC.)	0	0	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)	0	0	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	0	0	0	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	0	0	0	0
SKIN, FUR AND MUCOUS MEMBRANES	0	0	0	0
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)	0	0	0	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0

0 DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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TABLE 10, continued: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED	MONTH 3 ⁸			
	MALES			
	0 13	200 14	630 13	2000 13
EYES (PUPIL SIZE, LACRIMATION, ETC.)	0	0	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.) EMACIATED	0	1	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	0	0	0	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	0	0	0	0
SKIN, FUR AND MUCOUS MEMBRANES	0	0	0	0
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)	0	0	0	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0
ANIMAL: 90A3810 DOSE: 200 COMMENT: THIN, NOT EMACIATED				

⁸ DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

SL 030768

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1,1,1-T subchronic neurotoxicity

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TABLE 11: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED	DAY -04 [®]			
	FEMALES			
	0	200	630	2000
	14	14	14	14
-----	-----	-----	-----	-----
EYES (PUPIL SIZE, LACRIMATION, ETC.)	0	0	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)	0	0	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	0	0	0	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	0	0	0	0
SKIN, FUR AND MUCOUS MEMBRANES	0	0	0	0
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)	0	0	0	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0

® DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

1,1,1-T subchronic neurotoxicity

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TABLE 11, continued: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED	MONTH 1 ⁰			
	FEMALES			
	0 14	200 14	630 14	2000 14
-----	-----	-----	-----	-----
EYES (PUPIL SIZE, LACRIMATION, ETC.)	0	0	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESSE, NASAL DISCHARGE, ETC.)	0	0	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	0	0	0	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	0	0	0	0
SKIN, FUR AND MUCOUS MEMBRANES	0	0	0	0
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)	0	0	0	0
AUDITORY RESPONSIVENESS - DECREASED	2	0	0	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0

⁰ DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

SL 030770

1,1,1-T subchronic neurotoxicity

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TABLE 11, continued: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED -----	MONTH 2 ^e			
	FEMALES			
	0	200	630	2000
	14	14	14	14

EYES (PUPIL SIZE, LACRIMATION, ETC.)	0	0	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)	0	0	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	0	0	0	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	0	0	0	0
SKIN, FUR AND MUCOUS MEMBRANES	0	0	0	0
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)	0	0	0	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0

^e DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

1,1,1-T subchronic neurotoxicity

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TABLE 11, continued: FUNCTIONAL OBSERVATIONAL BATTERY

SEX PPM NUMBER OF ANIMALS OBSERVED	MONTH 3 ⁸			
	FEMALES			
	0	200	630	2000
	14	13	14	12
EYES (PUPIL SIZE, LACRIMATION, ETC.)				
EXCESSIVE CHROMODACRYORRHEA, LEFT	1	0	1	0
EXCESSIVE CHROMODACRYORRHEA, RIGHT	0	1	0	0
EXCESSIVE CHROMODACRYORRHEA, BILATERAL	0	1	0	0
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	0	0	0	0
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)	0	0	0	0
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)				
AGGRESSIVE	0	0	1	0
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	0	0	0	0
SKIN, FUR AND MUCOUS MEMBRANES	0	0	0	0
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)				
AUDITORY RESPONSIVENESS - DECREASED	0	0	1	0
DISPOSITION (MISSING, MORIBUND, ETC.)	0	0	0	0

⁸ DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

SL 030772

Figure 1: Hindlimb Grip Performance of Rats Exposed to 1,1,1-Trichloroethane Vapors for 13 Weeks.

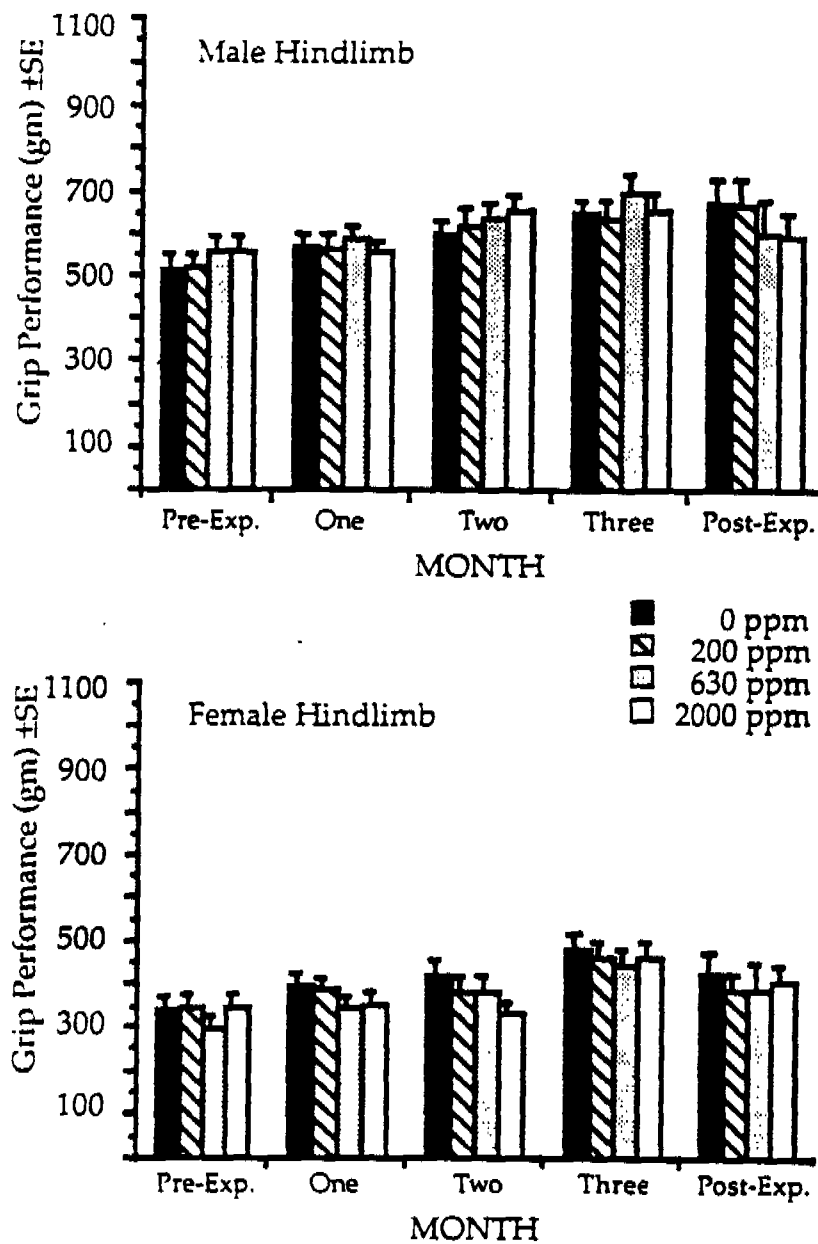
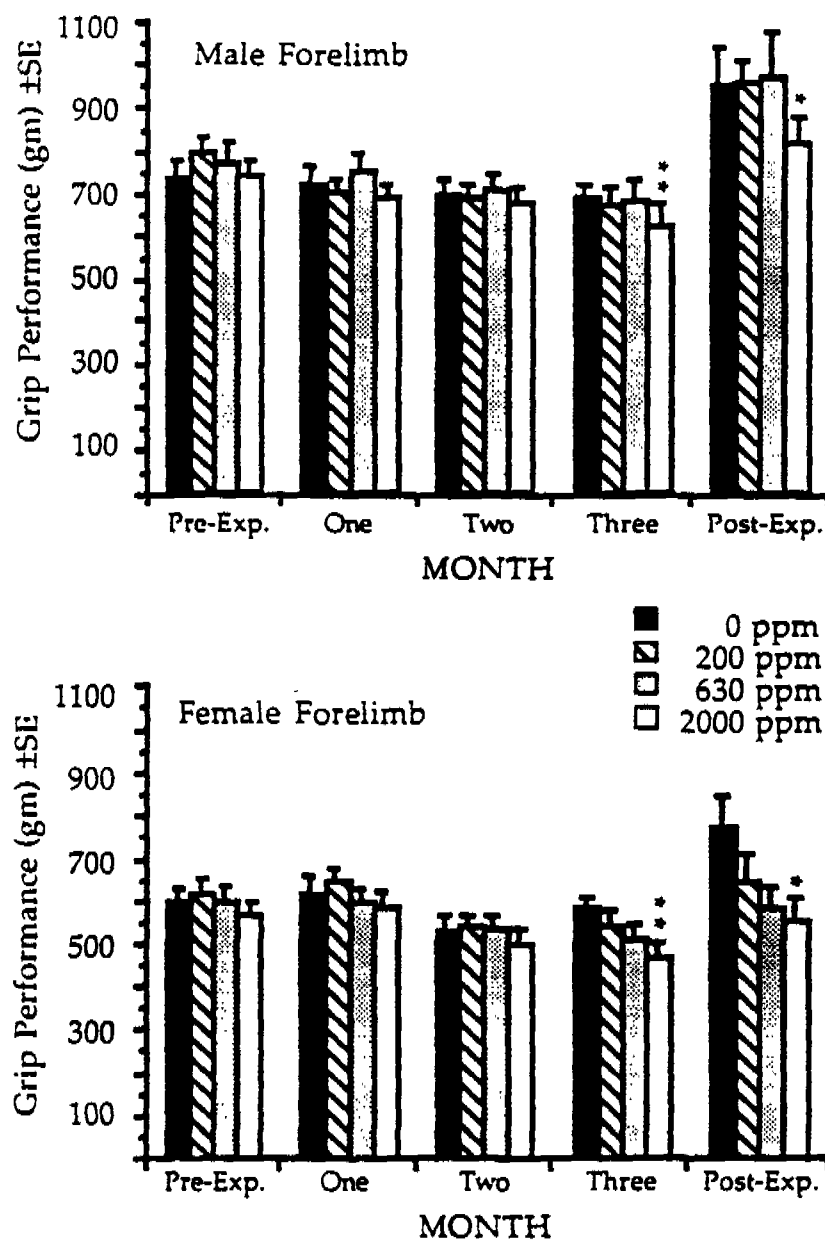


Figure 2: Forelimb Grip Performance of Rats Exposed to 1,1,1-Trichloroethane Vapors for 13 Weeks.



* p = 0.004

** p = 0.012

Table 12: Hindlimb Grip Performance (g), Descriptive Statistics

<u>Conc.</u>		<u>Pre-Exp.</u>	<u>1Month</u>	<u>2Month</u>	<u>3Month</u>	<u>Post-Exp.</u>
<u>Male,</u>						
0 ppm	Mean	514.6	564.6	602.1	646.3	672.9
	SD	83.3	82.3	65.7	72.8	117.4
	N	14	14	14	12 ^a	7
200 ppm	Mean	516.4	561.4	614.6	632.7	668.6
	SD	79.9	81.4	114.5	129.4	128.6
	N	14	14	14	13	7
630 ppm	Mean	557.5	584.6	633.6	698.1	601.7
	SD	82.7	70.9	96.9	94.2	151.5
	N	14	14	14	13	6
2000 ppm	Mean	555.0	554.6	653.2	654.6	593.3
	SD	89.6	52.5	85.0	112.1	105.2
	N	14	14	14	13	6
<u>Female,</u>						
0 ppm	Mean	340.7	391.8	419.3	479.6	426.4
	SD	65.2	72.8	80.0	85.8	96.6
	N	14	14	14	13	7
200 ppm	Mean	343.6	386.8	380.7	457.9	390.7
	SD	74.1	60.2	96.1	95.0	63.9
	N	14	14	14	12	7
630 ppm	Mean	297.9	347.1	381.4	447.5	386.9
	SD	60.5	40.3	91.9	69.1	143.6
	N	14	14	14	14	8
2000 ppm	Mean	350.4	352.9	335.0	460.0	407.1
	SD	56.4	67.3	54.9	92.7	70.5
	N	14	14	14	12	7

^a Testing error, one data point missing.

Table 13: Forelimb Grip Performance (g), Descriptive Statistics

<u>Conc.</u>		<u>Pre-Exp.</u>	<u>1Month</u>	<u>2Month</u>	<u>3Month</u>	<u>Post-Exp.</u>
<u>Male</u>						
0 ppm	Mean	728.6	719.3	692.5	683.3	948.6
	SD	112.8	92.8	79.3	85.5	207.2
	N	14	14	14	12 ^a	7
200 ppm	Mean	792.1	698.2	683.6	668.8	954.3
	SD	95.3	57.9	83.6	98.2	111.0
	N	14	14	14	13	7
630 ppm	Mean	768.6	750.0	706.8	681.5	967.5
	SD	138.0	107.8	74.6	115.4	241.0
	N	14	14	14	13	6
2000 ppm	Mean	732.9	682.9	670.4	619.6	815.0
	SD	95.9	82.2	104.6	148.7	127.8
	N	14	14	14	13	6
<u>Female</u>						
0 ppm	Mean	596.4	616.8	532.1	581.9	775.0
	SD	68.0	127.6	80.2	60.1	171.2
	N	14	14	14	13	7
200 ppm	Mean	618.9	645.7	542.5	541.3	646.4
	SD	73.4	61.2	53.8	88.8	154.2
	N	14	14	14	12	7
630 ppm	Mean	602.5	596.4	538.9	514.3	583.1
	SD	71.2	88.0	61.8	96.1	115.8
	N	14	14	14	14	8
2000 ppm	Mean	564.3	585.4	500.7	467.5	553.6
	SD	81.6	94.4	85.1	96.3	121.7
	N	14	14	14	12	7

^a Testing error, one data point missing.

SL 030776

Table 14: Grip Performance Pre-Exposure, Statistical Analyses^a

<u>Level/Covariate</u>		<u>MANCOVA</u>	<u>ANCOVA</u>	
			<u>HLGP^b</u>	<u>FLGP^c</u>
Overall	Treatment (T)	0.128	0.576	0.118
	Sex (S)	0.191	0.221	0.353
	Group (G)	0.094	0.091	0.065
	T X G	0.792	0.879	0.482
	T X S	0.307	0.105	0.841
Contrasts	200 vs 0	0.224	0.875	0.090
	630 vs 0	0.636	0.997	0.363
	2000 vs 0	0.313	0.234	0.577
Covariate	/Body weight	0.006	0.002	0.798

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b HLGP Hindlimb Grip Performance

^c FLGP Forelimb Grip Performance

Table 15: Grip Performance 1 Month, Statistical Analyses^a

<u>Level/Covariate</u>		<u>MANCOVA</u>	<u>ANCOVA</u>	
			<u>HLGP^b</u>	<u>FLGP^c</u>
Overall	Treatment (T)	0.560	0.523	0.391
	Sex (S)	0.068	0.060	0.123
	Group (G)	0.752	0.790	0.466
	T X G	0.795	0.775	0.572
	T X S	0.276	0.265	0.244
Contrasts	200 vs 0	0.950	0.806	0.851
	630 vs 0	0.746	0.483	0.802
	2000 vs 0	0.204	0.166	0.212
Covariate	/Body weight	0.698	0.617	0.519

^a Values are actual p values

^b HLGP Hindlimb Grip Performance

^c FLGP Forelimb Grip Performance

Table 16: Grip Performance 2 Month, Statistical Analyses^a

<u>Level/Covariate</u>		<u>MANCOVA</u>	<u>ANCOVA</u>	
			<u>HLGP^b</u>	<u>FLGP^c</u>
Overall	Treatment (T)	0.686	0.911	0.312
	Sex (S)	0.003	0.001	0.151
	Group (G)	0.835	0.557	0.858
	T X G	0.460	0.930	0.154
	T X S	0.190	0.042	0.901
Contrasts	200 vs 0	0.892	0.632	0.975
	630 vs 0	0.921	0.965	0.689
	2000 vs 0	0.362	0.563	0.178
Covariate	/Body weight	0.695	0.566	0.555

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b HLGP Hindlimb Grip Performance

^c FLGP Forelimb Grip Performance

Table 17: Grip Performance 3 Month, Statistical Analyses^a

<u>Level/Covariate</u>		<u>MANCOVA</u>	<u>ANCOVA</u>	
			<u>HLGP^b</u>	<u>FLGP^c</u>
Overall	Treatment (T)	0.110	0.711	0.034
	Sex (S)	0.078	0.179	0.036
	Group (G)	0.053	0.020	0.220
	T X G	0.431	0.197	0.878
	T X S	0.620	0.310	0.692
Contrasts	200 vs 0	0.556	0.462	0.342
	630 vs 0	0.378	0.700	0.222
	2000 vs 0	0.015	0.779	0.004
Covariate	/Body weight	0.323	0.211	0.593

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b HLGP Hindlimb Grip Performance

^c FLGP Forelimb Grip Performance

Table 18: Grip Performance Post-Exposure, Statistical Analyses^a

<u>Level/Covariate</u>		<u>MANCOVA</u>	<u>ANCOVA</u>	
			<u>HLGP^b</u>	<u>FLGP^c</u>
Overall	Treatment (T)	0.302	0.642	0.086
	Sex (S)	0.300	0.151	0.235
	Group (G)	0.940	0.733	0.952
	T X G	0.574	0.528	0.538
	T X S	0.417	0.661	0.342
Contrasts	200 vs 0	0.584	0.716	0.299
	630 vs 0	0.333	0.265	0.167
	2000 vs 0	0.044	0.347	0.012
Covariate	/Body weight	0.999	0.993	0.998

^a Values are actual p values

^b HLGP Hindlimb Grip Performance

^c FLGP Forelimb Grip Performance

Table 19: Body Temperatures (°C), Descriptive Statistics

<u>Concentration</u>		<u>FEPT</u>	<u>SEPT</u>	<u>ABRCT</u>
<u>Male</u> , 0 ppm	Mean	37.6	37.8	37.8
	SD	0.6	0.6	0.5
	N	12	12	12
200 ppm	Mean	38.1	38.1	38.1
	SD	0.6	0.5	0.5
	N	12	12	12
630 ppm	Mean	37.9	38.0	38.0
	SD	0.5	0.4	0.4
	N	12	12	12
2000 ppm	Mean	37.8	38.2	38.2
	SD	0.5	0.5	0.5
	N	11 ^a	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	37.9	37.9	38.1
	SD	0.5	0.5	0.6
	N	12	12	12
200 ppm	Mean	37.9	38.0	38.0
	SD	0.3	0.3	0.3
	N	12	12	12
630 ppm	Mean	37.8	37.9	37.9
	SD	0.6	0.7	0.6
	N	12	12	12
2000 ppm	Mean	37.8	38.0	38.0
	SD	0.5	0.5	0.5
	N	11 [*]	12	12

* One temperature inadvertently not recorded.

^a Sample size one less due to animal death.

FEPT Body temperature before FEP recording.

SEPT Body temperature before SEP recording.

ABRCT Body temperature before ABR click recording.

Table 19, continued: Body Temperatures (°C), Descriptive Statistics

<u>Concentration</u>		<u>ABRTT</u>	<u>CNAPT</u>	<u>CFRT</u>
<u>Male</u> , 0 ppm	Mean	37.8	25.0	37.8
	SD	0.5	0.2	0.6
	N	12	12	12
	200 ppm	Mean	25.1	38.2
		SD	0.4	0.5
		N	12	12
	630 ppm	Mean	25.2	38.0
		SD	0.4	0.4
		N	12	12
	2000 ppm	Mean	25.1	38.1
		SD	0.5	0.5
		N	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	38.1	25.0	38.1
	SD	0.6	0.3	0.6
	N	12	12	12
	200 ppm	Mean	24.9	37.9
		SD	0.2	0.4
		N	12	12
	630 ppm	Mean	25.0	37.9
		SD	0.2	0.7
		N	12	12
	2000 ppm	Mean	24.9	38.0
		SD	0.2	0.3
		N	12	12

^a Sample size one less due to animal death.

ABRTT Body temperature before ABR tone recordings.
 CNAPT Tail temperature before CNAP recording.
 CFRT Body temperature before CFR recording.

Table 20: Body Temperatures, Statistical Analyses^a

		ANCOVA		
	<u>Level/Covariate</u>	<u>FEPT</u>	<u>SEPT</u>	<u>ABRCT</u>
Overall	Treatment (T)	0.350	0.381	0.668
	Sex (S)	0.644	0.886	0.931
	Group (G)	0.931	0.858	0.801
	T X G	0.458	0.311	0.753
	T X S	0.584	0.689	0.461
Contrasts	200 vs 0	0.096	0.193	0.377
	630 vs 0	0.659	0.460	0.782
	2000 vs 0	0.800	0.105	0.279
Covariate	/Body weight	0.640	0.984	0.961

^a Values are actual p values.

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Table 20, continued: Body Temperatures, Statistical Analyses^a

		ANCOVA		
	<u>Level/Covariate</u>	<u>ABRTT</u>	<u>CNAPT</u>	<u>CFRT</u>
Overall	Treatment (T)	0.574	0.884	0.631
	Sex (S)	0.937	0.530	0.443
	Group (G)	0.984	0.224	0.873
	T X G	0.522	0.410	0.625
	T X S	0.443	0.369	0.244
Contrasts	200 vs 0	0.353	0.929	0.277
	630 vs 0	0.652	0.592	0.661
	2000 vs 0	0.187	0.794	0.277
Covariate	/Body weight	0.906	0.982	0.468

^a Values are actual p values.

Table 20, continued: Body Temperatures, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA^b</u>
Overall	Treatment (T)	0.858
	Sex (S)	0.633
	Group (G)	0.884
	T X G	0.648
	T X S	0.800
Contrasts	200 vs 0	0.512
	630 vs 0	0.903
	2000 vs 0	0.615
Covariate	/Body weight	0.729

^a Values are actual p values.^b MANCOVA includes: FEPT, CFRT, ABRCT, ABRTT, SEPT, CNAPT

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Figure 3: Flash Evoked Potentials (FEP)

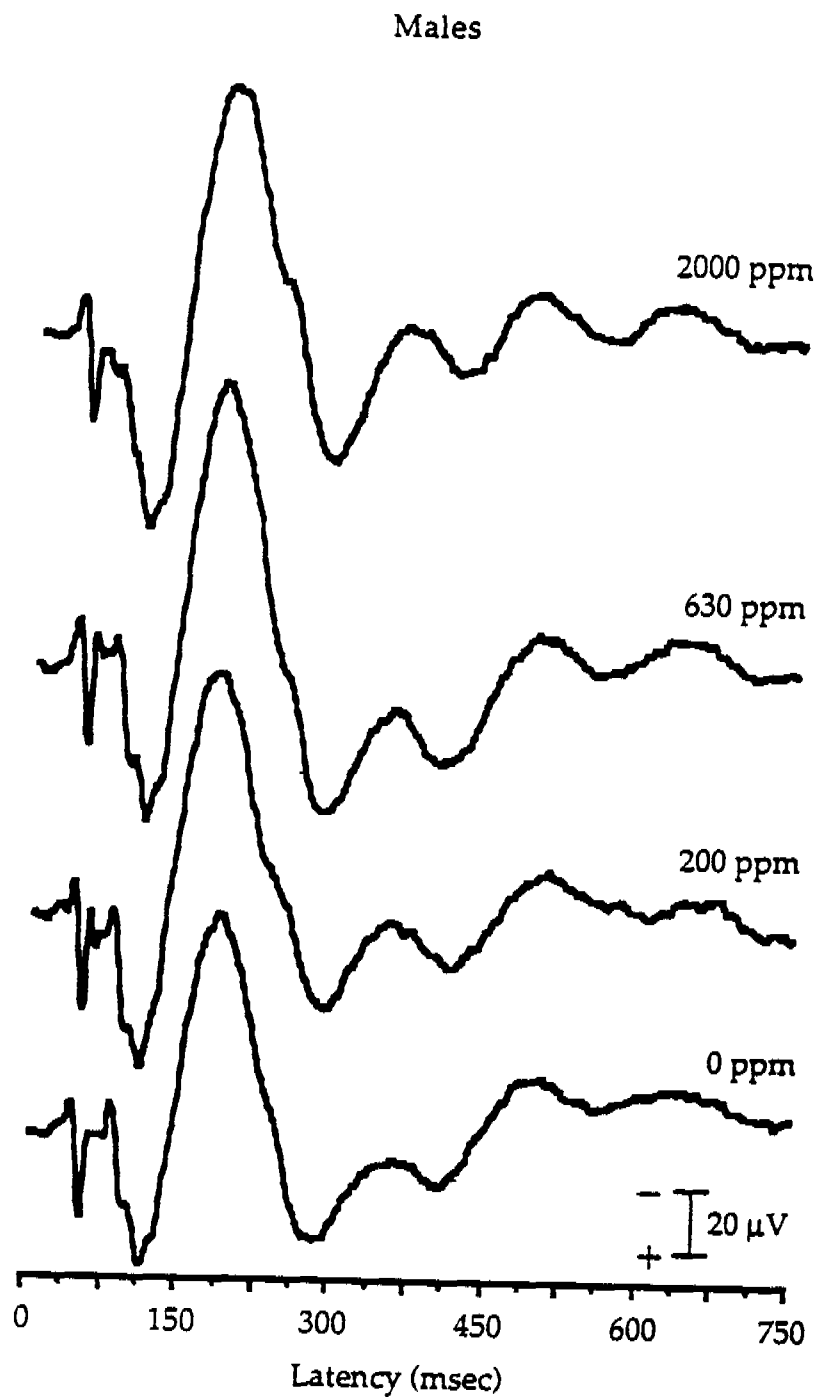
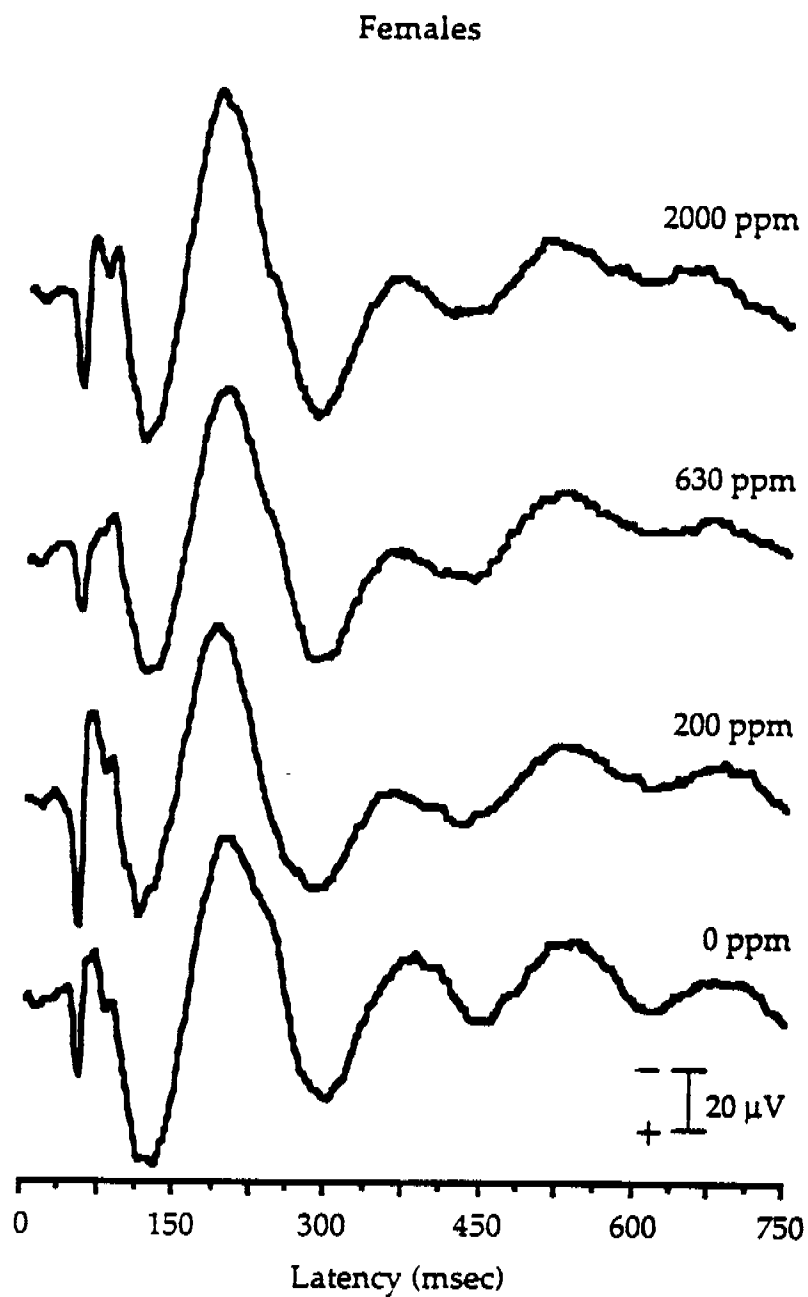


Figure 4: Flash Evoked Potentials (FEP)



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Table 21: FEP early latency, data window=35-95.1 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male</u> , 0 ppm	Mean	0.65	0.69	18.70
	SD	2.41	0.16	5.61
	N	12	12	12
	200 ppm	Mean	0.61	21.38
		SD	0.18	7.67
		N	12	12
	630 ppm	Mean	0.68	20.85
		SD	0.18	12.36
		N	12	12
	2000 ppm	Mean	0.58	23.15
		SD	0.31	12.38
		N	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	1.03	0.68	23.03
	SD	3.27	0.30	13.42
	N	12	12	12
	200 ppm	Mean	0.82	22.65
		SD	0.12	10.40
		N	12	12
	630 ppm	Mean	0.67	16.00
		SD	0.18	5.03
		N	12	12
	2000 ppm	Mean	0.74	19.67
		SD	0.12	8.20
		N	12	12

* One data point removed to establish homogeneity of variance.

^a Sample size one less due to animal death.

Table 22: FEP early latency, data window=35-95.1 msec, Statistical Analyses^a

		ANCOVA			
	Level/Covariate	MANCOVA	Lat Diff	Correl ^b	Power
Overall	Treatment (T)	0.616	0.363	0.555	0.717
	Sex (S)	0.371	0.638	0.267	0.439
	Group (G)	0.004	0.054	0.005	0.683
	T X G	0.099	0.010	0.811	0.431
	T X S	0.293	0.449	0.209	0.438
Contrasts	200 vs 0	0.353	0.109	0.432	0.931
	630 vs 0	0.563	0.426	0.981	0.307
	2000 vs 0	0.444	0.155	0.500	0.879
Covariates	/Body weight	0.626	0.789	0.620	0.367
	/Temperature	0.001	0.001	0.059	0.007

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

Table 23: FEP midlatency, data window=94.5-280 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male, 0 ppm</u>	Mean	0.50	0.96**	43.56
	SD	9.81	0.06	21.35
	N	12	10	12
200 ppm	Mean	-3.63	0.93	45.79
	SD	9.63	0.08	18.04
	N	12	12	12
630 ppm	Mean	-0.88	0.97	51.44
	SD	6.81	0.04	23.73
	N	12	12	12
2000 ppm	Mean	1.23	0.94	50.98
	SD	10.24	0.04	29.06
	N	11 ^a	11 ^a	11 ^a
<u>Female, 0 ppm</u>	Mean	-0.88	0.97*	40.45
	SD	6.15	0.03	16.37
	N	12	11	12
200 ppm	Mean	-13.13	0.91**	34.51
	SD	7.35	0.08	14.23
	N	12	10	12
630 ppm	Mean	-3.00	0.90	36.27
	SD	12.42	0.09	15.47
	N	12	12	12
2000 ppm	Mean	-7.75	0.93*	40.72
	SD	9.22	0.07	19.79
	N	12	11	12

* One data point removed to establish homogeneity of variance.

** Two data points removed to establish homogeneity of variance.

^a Sample size one less due to animal death.

Table 24: FEP midlatency, data window=94.5-280 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.085	0.064	0.132	0.441
	Sex (S)	0.822	0.634	0.434	0.744
	Group (G)	0.099	0.020	0.642	0.451
	T X G	0.092	0.900	0.501	0.020
	T X S	0.545	0.287	0.238	0.929
Contrasts	200 vs 0	0.005	0.011	0.021	0.140
	630 vs 0	0.469	0.477	0.174	0.567
	2000 vs 0	0.310	0.377	0.109	0.881
Covariates	/Body weight	0.953	0.893	0.724	0.736
	/Temperature	0.005	0.113	0.676	0.002

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

Table 25: FEP N₃ Amplitude μ V, Descriptive Statistics

<u>Concentration</u>		<u>Amplitude</u>
<u>Male, 0 ppm</u>	Mean	82.58
	SD	45.99
	N	12
200 ppm	Mean	86.75
	SD	37.27
	N	12
630 ppm	Mean	98.36
	SD	45.83
	N	12
2000 ppm	Mean	85.96
	SD	51.42
	N	11 ^a
<u>Female, 0 ppm</u>	Mean	60.48
	SD	37.51
	N	12
200 ppm	Mean	62.74
	SD	37.79
	N	12
630 ppm	Mean	63.81
	SD	34.64
	N	12
2000 ppm	Mean	70.83
	SD	44.26
	N	12

^a Sample size one less due to animal death.

Table 26: FEP N₃ Amplitude, Statistical Analyses^a

<u>Level/Covariate</u>		<u>ANCOVA</u>
Overall	Treatment (T)	0.836
	Sex (S)	0.258
	Group (G)	0.991
	T X G	0.059
	T X S	0.896
Contrasts	200 vs 0	0.921
	630 vs 0	0.471
	2000 vs 0	0.702
Covariates	/Body weight	0.655
	/Temperature	0.050

^a Values are actual p values.

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Table 27: CFR Signal to Noise Ratio, Descriptive Statistics

<u>Concentration</u>		<u>Ratio</u>
<u>Male, 0 ppm</u>	Mean	1.52
	SD	0.70
	N	12
200 ppm	Mean	1.03
	SD	0.64
	N	12
630 ppm	Mean	1.30
	SD	1.28
	N	12
2000 ppm	Mean	1.59
	SD	0.98
	N	11 ^a
<u>Female, 0 ppm</u>	Mean	1.59
	SD	1.46
	N	12
200 ppm	Mean	2.17
	SD	2.08
	N	12
630 ppm	Mean	1.61
	SD	1.51
	N	12
2000 ppm	Mean	1.52
	SD	1.76
	N	12

^a Sample size one less due to animal death.

Table 28: CFR Signal to Noise Ratio, Statistical Analyses^a

<u>Level/Covariate</u>		<u>ANCOVA</u>
Overall	Treatment (T)	0.985
	Sex (S)	0.657
	Group (G)	0.627
	T X G	0.769
	T X S	0.516
Contrasts	200 vs 0	0.873
	630 vs 0	0.831
	2000 vs 0	0.944
Covariates	/Body weight	0.446
	/Temperature	0.677

^a Values are actual p values.

Figure 5: Auditory Brainstem Responses to Clicks

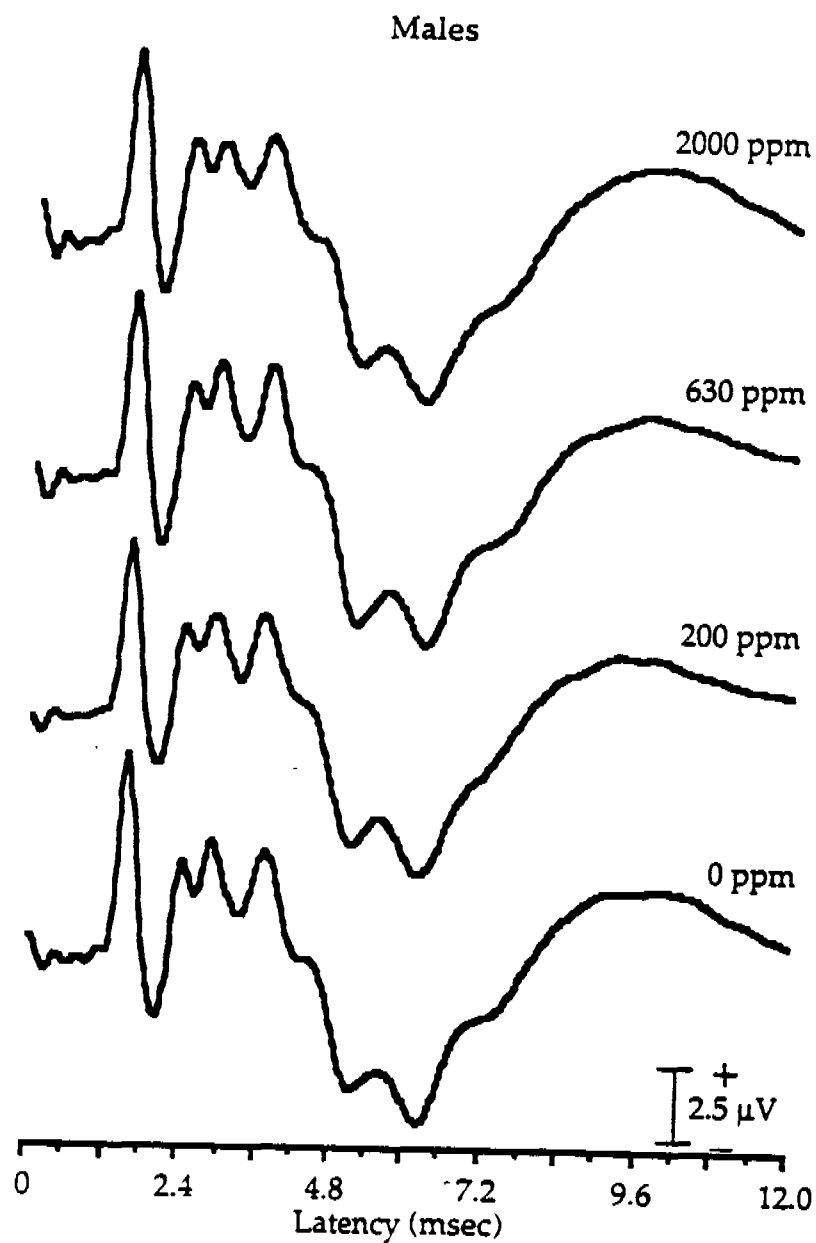
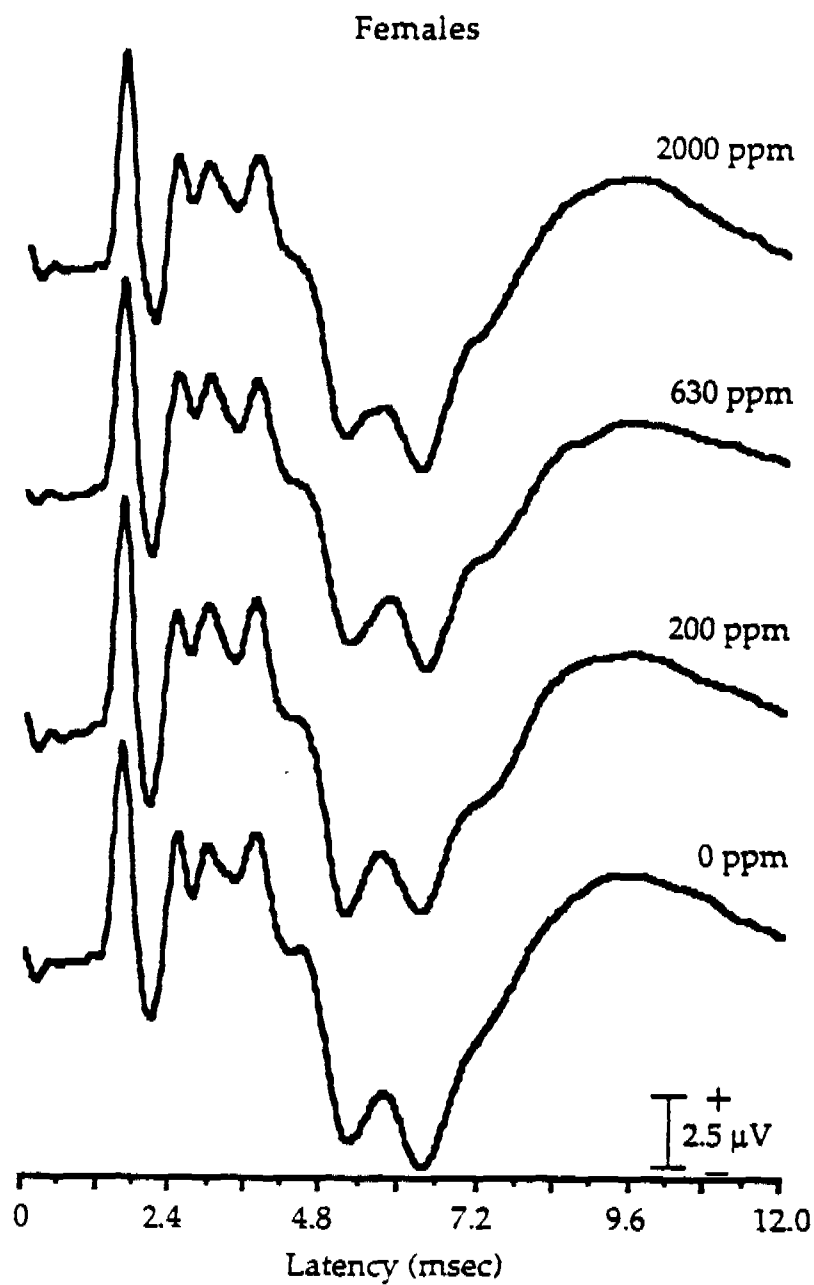


Figure 6: Auditory Brainstem Responses to Clicks



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Table 29: ABR Click, Data Window=1-5 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male</u> , 0 ppm	Mean	0.02	0.94	2.36
	SD	0.06	0.04	0.66
	N	12	12	12
200 ppm	Mean	0.01	0.91	2.27
	SD	0.06	0.09	0.75
	N	12	12	12
630 ppm	Mean	0.02	0.93	2.31
	SD	0.03	0.09	0.44
	N	12	12	12
2000 ppm	Mean	0.03	0.93	2.24
	SD	0.07	0.05	0.70
	N	11 ^a	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	0.04	0.93	2.62
	SD	0.04	0.03	0.66
	N	12	12	12
200 ppm	Mean	0.02	0.95	2.76
	SD	0.03	0.02	0.28
	N	12	12	12
630 ppm	Mean	0.02	0.93*	2.58
	SD	0.05	0.03	0.57
	N	12	11	12
2000 ppm	Mean	0.03	0.93	2.66
	SD	0.05	0.04	0.68
	N	12	12	12

* One data point removed to establish homogeneity of variance.

^a Sample size one less due to animal death.

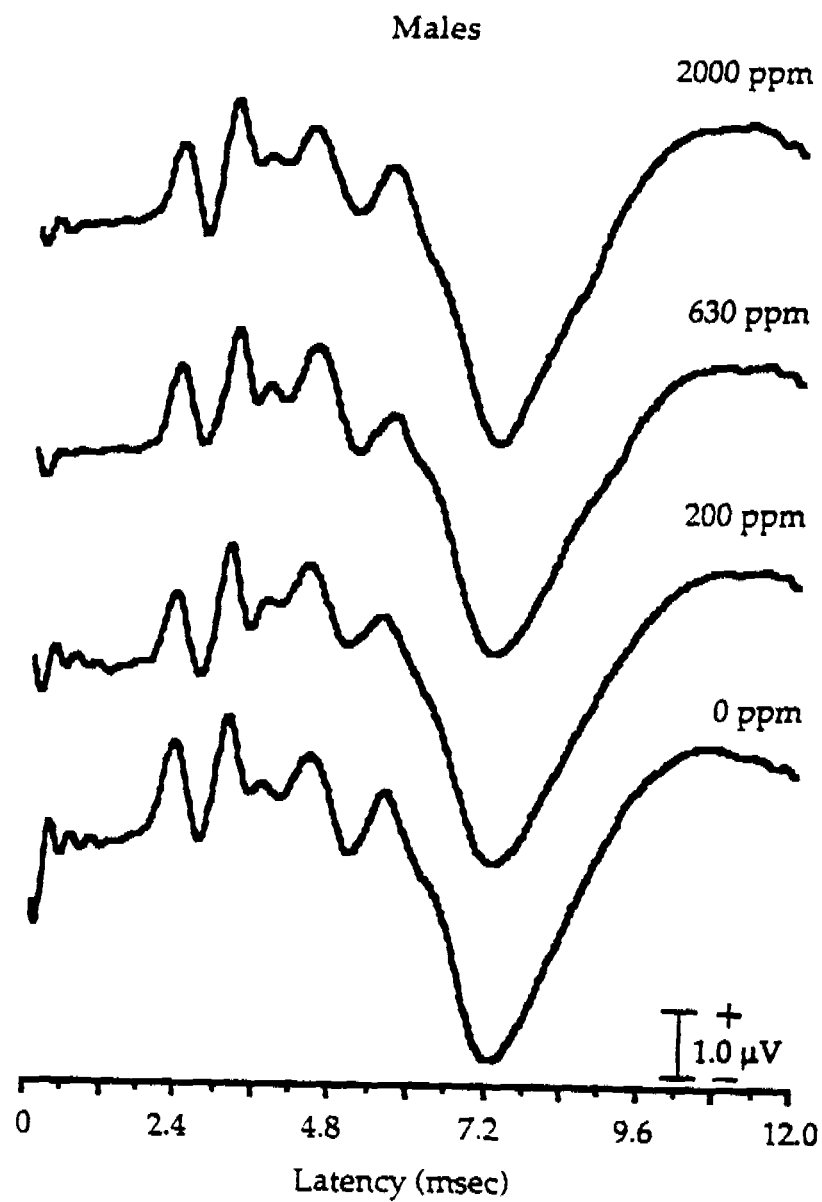
Table 30: ABR Click, Data Window=1-5 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.988	0.676	0.956	0.978
	Sex (S)	0.705	0.291	0.846	0.841
	Group (G)	0.026	0.020	0.090	0.004
	T X G	0.306	0.184	0.824	0.110
	T X S	0.893	0.612	0.501	0.856
Contrasts	200 vs 0	0.881	0.482	0.943	0.950
	630 vs 0	0.955	0.753	0.943	0.873
	2000 vs 0	0.945	0.623	0.681	0.735
Covariates	/Body weight	0.737	0.398	0.895	0.317
	/Temperature	0.0003	0.0001	0.954	0.488

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

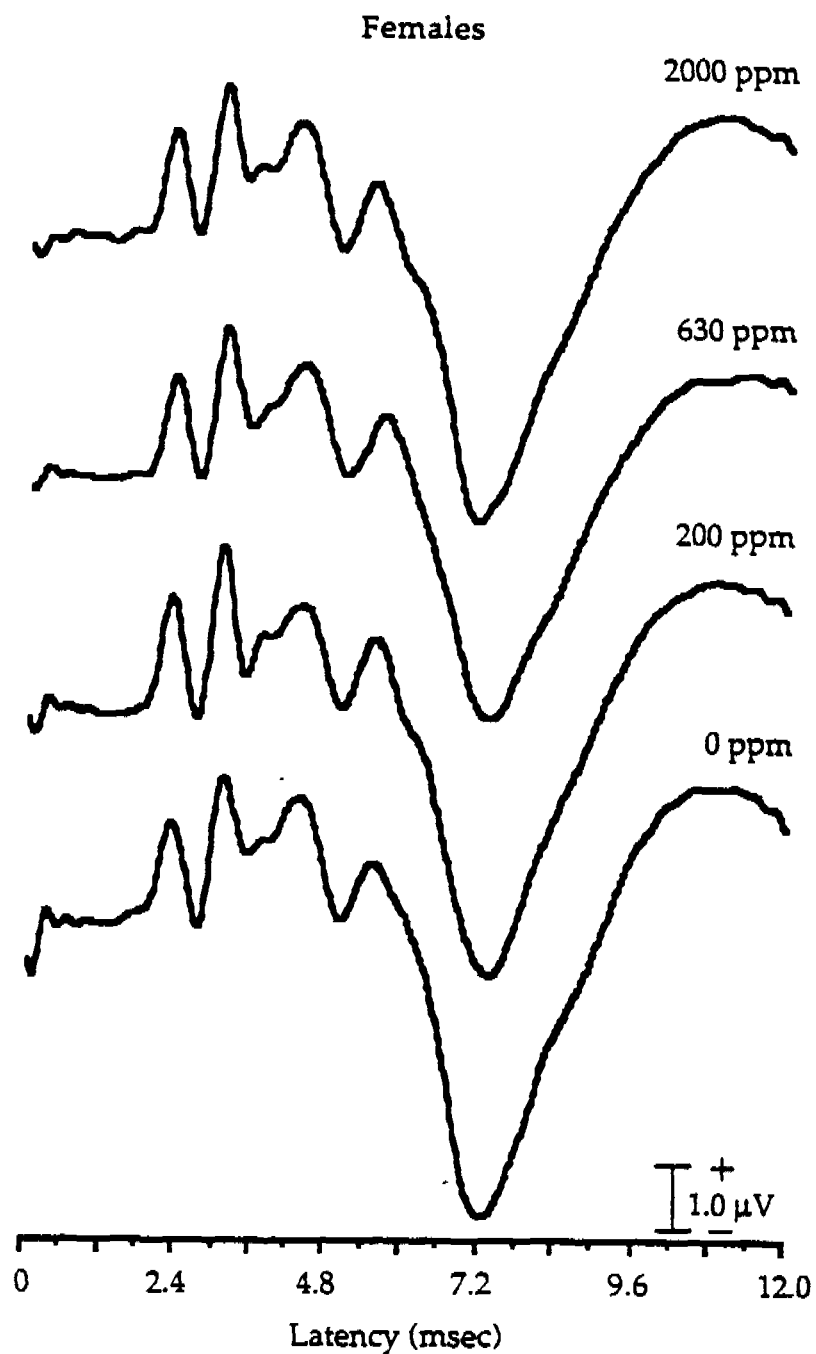
^b Arcsine transformation was performed on correlation data before statistical analysis.

Figure 7: Auditory Brainstem Responses to 10 kHz Tone Pips



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Figure 8: Auditory Brainstem Responses to 10 kHz Tone Pips



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Table 31: ABR tone 10 kHz, Data Window=1.5-5.9 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male, 0 ppm</u>	Mean	0.03	0.85	0.63
	SD	0.09	0.11	0.17
	N	12	12	12
200 ppm	Mean	0.01	0.69*	0.62
	SD	0.07	0.24	0.18
	N	12	11	12
630 ppm	Mean	0.05	0.84	0.63
	SD	0.06	0.09	0.12
	N	12	12	12
2000 ppm	Mean	0.01	0.78	0.63
	SD	0.10	0.20	0.11
	N	11 ^a	11 ^a	11 ^a
<u>Female, 0 ppm</u>	Mean	0.01	0.83	0.77
	SD	0.05	0.11	0.20
	N	12	12	12
200 ppm	Mean	-0.01	0.81	0.75
	SD	0.04	0.11	0.10
	N	12	12	12
630 ppm	Mean	0.00	0.82	0.76
	SD	0.08	0.08	0.10
	N	12	12	12
2000 ppm	Mean	0.01	0.82	0.82
	SD	0.10	0.14	0.24
	N	12	12	12

* One data point removed to establish homogeneity of variance.

^a Sample size one less due to animal death.

Table 32: ABR tone 10 kHz, Data Window=1.5-5.9 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.392	0.700	0.177	0.917
	Sex (S)	0.620	0.671	0.997	0.237
	Group (G)	0.214	0.245	0.051	0.110
	T X G	0.564	0.355	0.251	0.818
	T X S	0.479	0.455	0.335	0.840
Contrasts	200 vs 0	0.109	0.545	0.041	0.898
	630 vs 0	0.947	0.599	0.753	0.968
	2000 vs 0	0.521	0.769	0.328	0.605
Covariates	/Body weight	0.987	0.973	0.821	0.876
	/Temperature	0.0001	0.0001	0.771	0.413

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

Figure 9: Auditory Brainstem Responses to 30 kHz Tone Pips

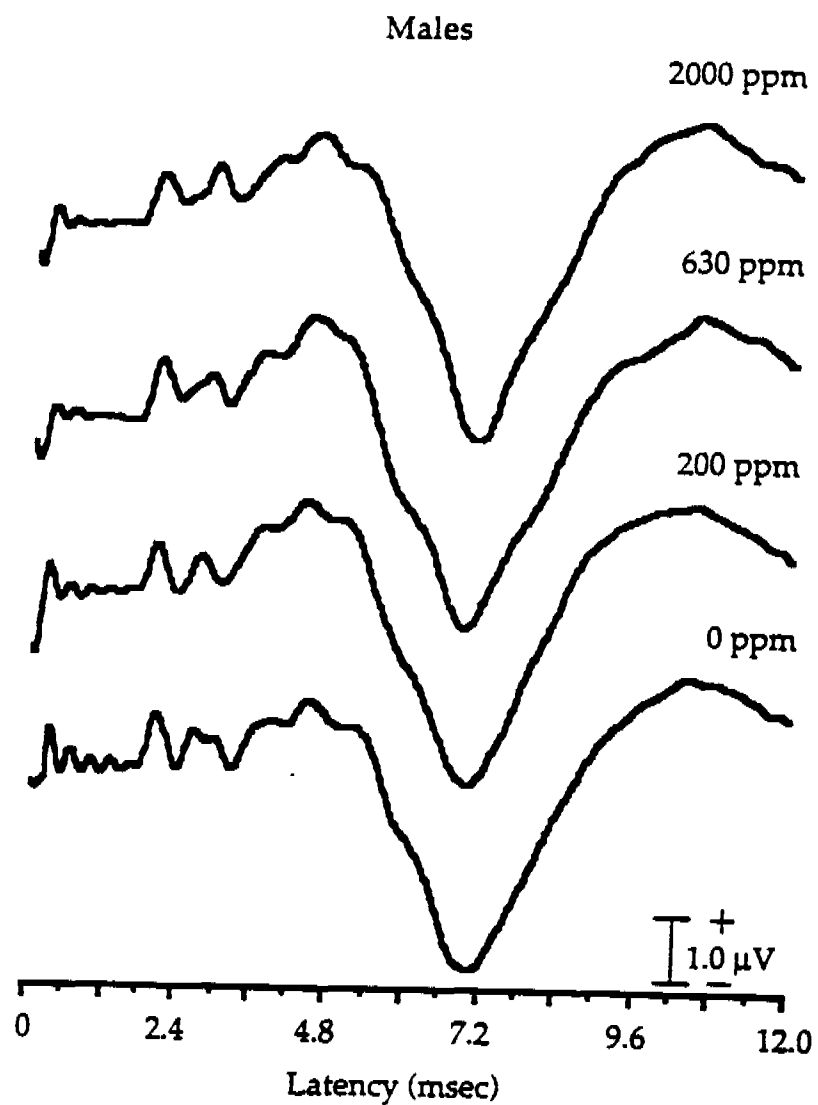


Figure 10: Auditory Brainstem Responses to 30 kHz Tone Pips

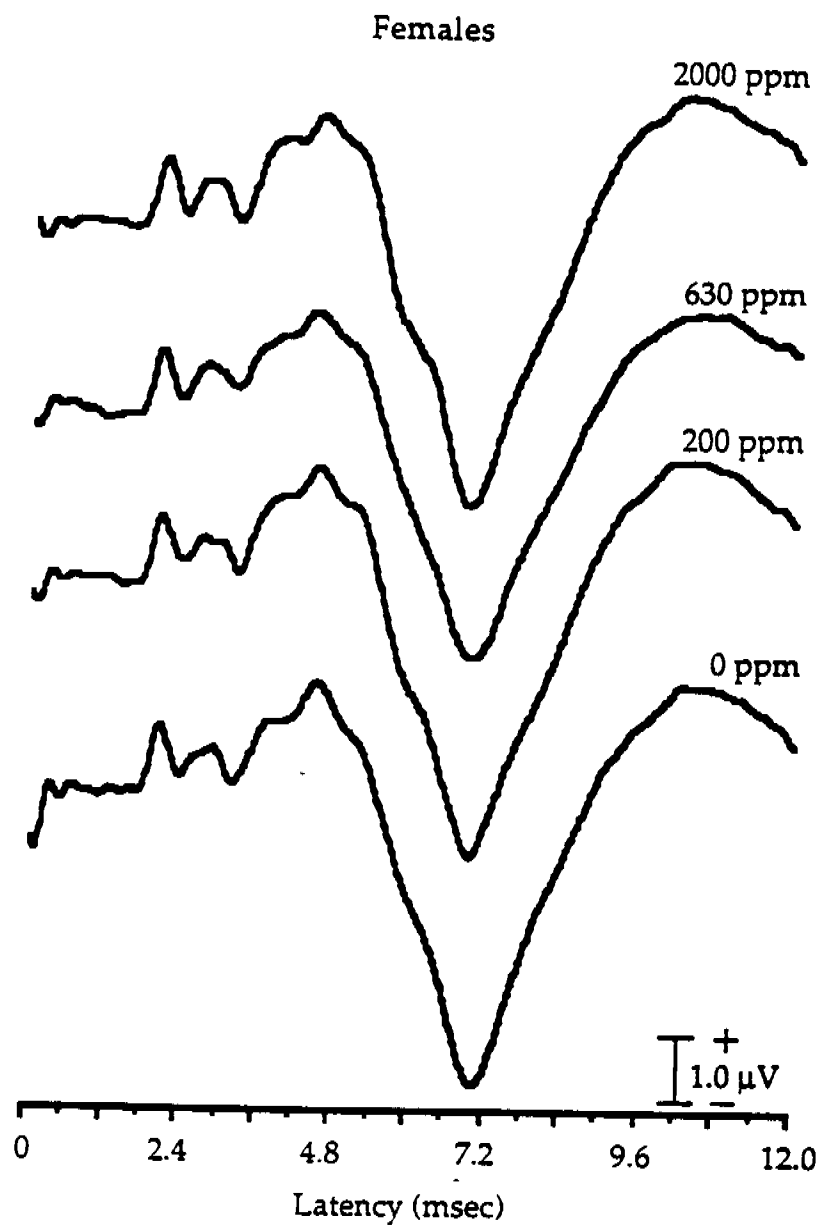


Table 33: ABR tone 30 kHz, Data Window=1.5-5.5 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male, 0 ppm</u>	Mean	0.02	0.65	0.47
	SD	0.09	0.24	0.14
	N	12	12	12
200 ppm	Mean	0.00	0.74	0.56
	SD	0.11	0.13	0.19
	N	12	12	12
630 ppm	Mean	0.01	0.76	0.55
	SD	0.07	0.13	0.12
	N	12	12	12
2000 ppm	Mean	0.09	0.77	0.50
	SD	0.17	0.13	0.14
	N	11 ^a	11 ^a	11 ^a
<u>Female, 0 ppm</u>	Mean	0.05	0.76	0.59
	SD	0.06	0.15	0.19
	N	12	12	12
200 ppm	Mean	0.09	0.77	0.65
	SD	0.10	0.14	0.18
	N	12	12	12
630 ppm	Mean	0.04	0.71	0.63
	SD	0.11	0.12	0.19
	N	12	12	12
2000 ppm	Mean	0.07	0.79	0.65
	SD	0.11	0.15	0.16
	N	12	12	12

^a Sample size one less due to animal death.

Table 34: ABR tone 30 kHz, Data Window=1.5-5.5 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.168	0.155	0.447	0.501
	Sex (S)	0.308	0.163	0.483	0.656
	Group (G)	0.185	0.163	0.098	0.091
	T X G	0.958	0.605	0.829	0.738
	T X S	0.341	0.234	0.313	0.815
Contrasts	200 vs 0	0.189	0.375	0.227	0.159
	630 vs 0	0.629	0.954	0.488	0.229
	2000 vs 0	0.026	0.045	0.130	0.465
Covariates	/Body weight	0.550	0.267	0.645	0.730
	/Temperature	0.001	0.0001	0.690	0.095

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

Figure 11: Somatosensory Evoked Potential Recorded from the Sensory Cortex (SEP-S)

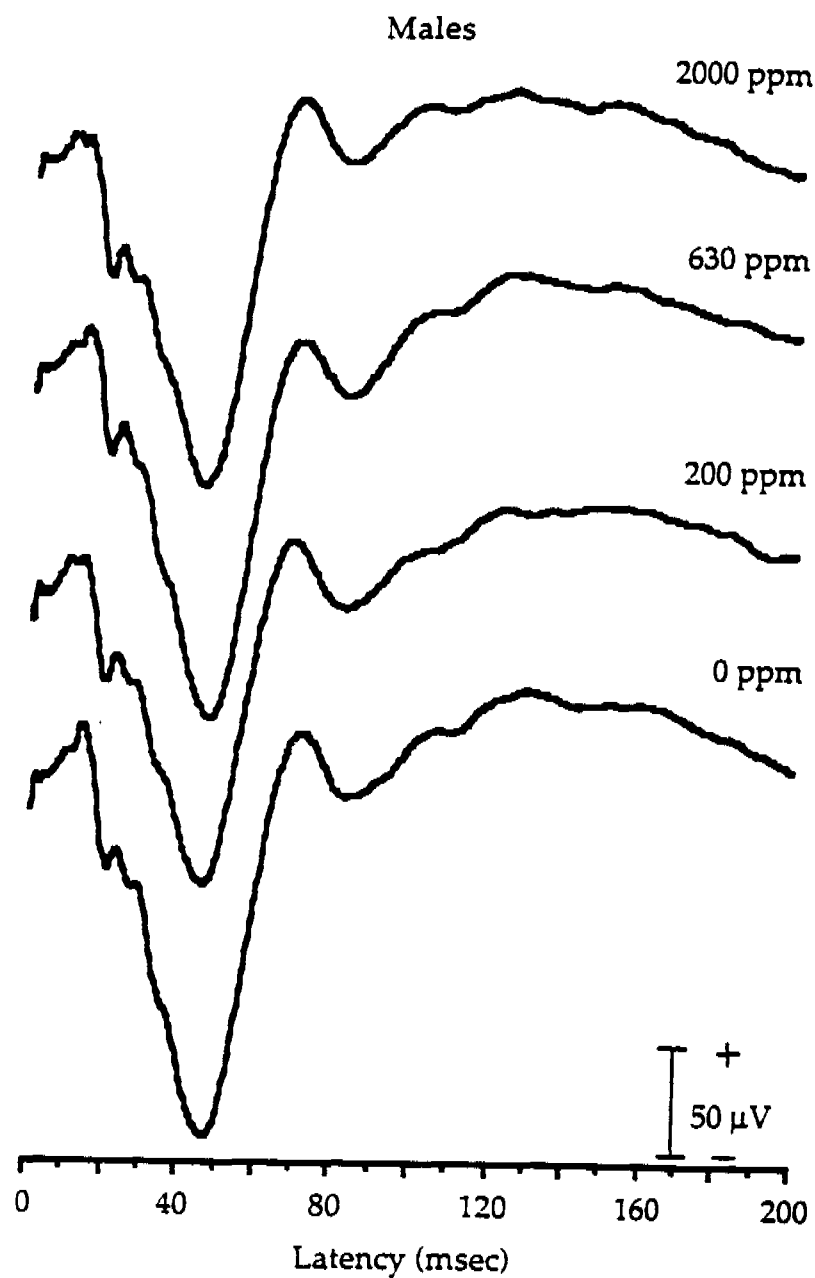
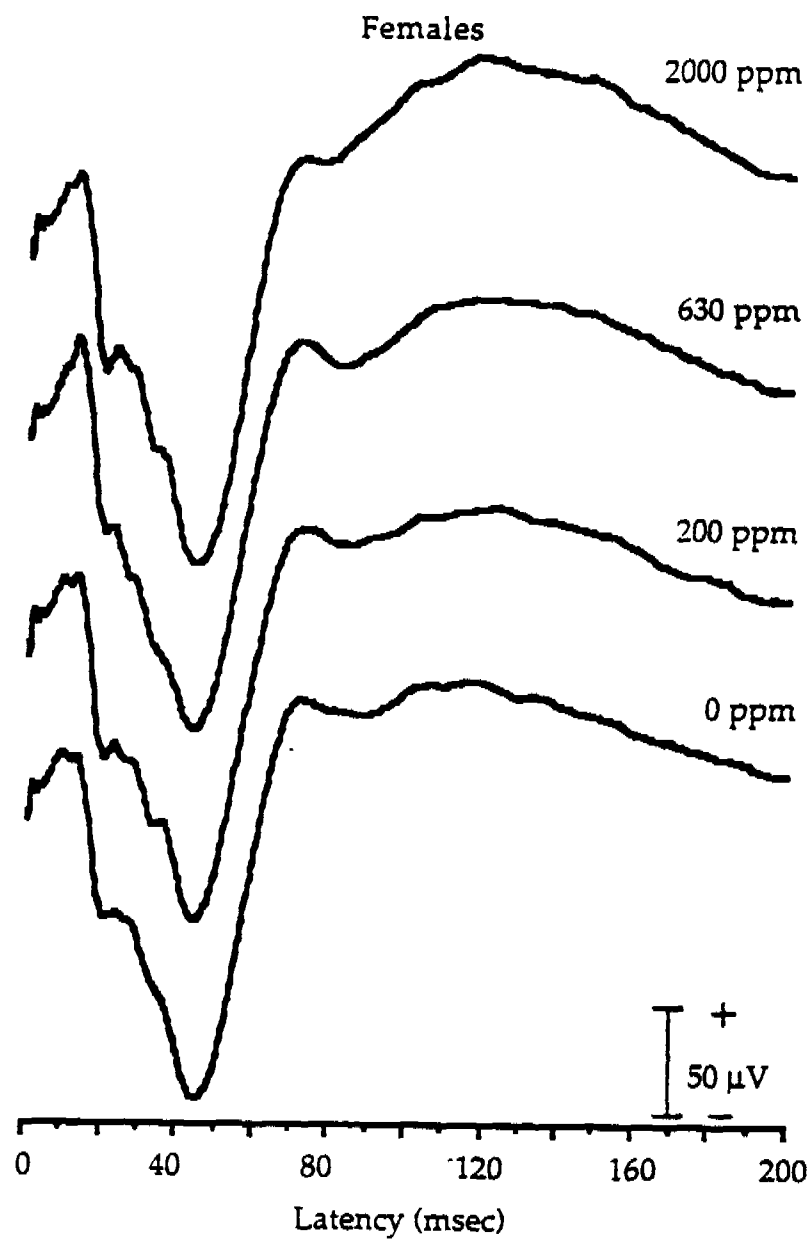


Figure 12: Somatosensory Evoked Potential Recorded from the Sensory Cortex (SEP-S)



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Table 35: SEP-S early latency, data window=4-16.5 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male, 0 ppm</u>	Mean	0.13	0.82	7.24
	SD	0.72	0.30	2.92
	N	12	12	12
200 ppm	Mean	-0.44	0.60	7.08
	SD	1.03	0.45	3.38
	N	12	12	12
630 ppm	Mean	0.28	0.67	7.37
	SD	0.61	0.41	3.38
	N	12	12	12
2000 ppm	Mean	-0.52	0.69	6.96
	SD	1.02	0.38	2.78
	N	11 ^a	11 ^a	11 ^a
<u>Female, 0 ppm</u>	Mean	-0.04	0.60	8.12
	SD	0.51	0.32	3.05
	N	12	12	12
200 ppm	Mean	0.03	0.71	8.67
	SD	0.24	0.33	3.58
	N	12	12	12
630 ppm	Mean	-0.07	0.68	10.92
	SD	0.62	0.33	4.80
	N	12	12	12
2000 ppm	Mean	0.17*	0.66	8.28
	SD	0.43	0.31	3.23
	N	11	12	12

* One data point removed to establish homogeneity of variance.

^a Sample size one less due to animal death.

Table 36: SEP-S early latency, data window=4-16.5 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.717	0.428	0.938	0.268
	Sex (S)	0.360	0.171	0.470	0.918
	Group (G)	0.194	0.160	0.101	0.132
	T X G	0.311	0.057	0.678	0.551
	T X S	0.118	0.033	0.579	0.363
Contrasts	200 vs 0	0.833	0.405	0.543	0.685
	630 vs 0	0.527	0.490	0.712	0.213
	2000 vs 0	0.915	0.556	0.860	0.590
Covariates	/Body weight	0.324	0.235	0.552	0.352
	/Temperature	0.0001	0.0001	0.785	0.0001

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

Table 37: SEP-S midlatency, data window=16.5-90 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male</u> , 0 ppm	Mean	0.10	0.97	62.57
	SD	2.36	0.02	15.30
	N	12	12	12
	200 ppm	Mean	0.96	52.40
		SD	0.02	10.57
		N	12	12
	630 ppm	Mean	0.96	60.30
		SD	0.04	11.66
		N	12	12
	2000 ppm	Mean	0.96	62.43
		SD	0.04	14.27
		N	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	0.07	0.96	69.50
	SD	3.20	0.06	14.68
	N	12	12	12
	200 ppm	Mean	0.96	67.82
		SD	0.03	13.66
		N	12	12
	630 ppm	Mean	0.96	67.08
		SD	0.02	20.47
		N	12	12
	2000 ppm	Mean	0.97	70.94
		SD	0.03	17.84
		N	12	12

^a Sample size one less due to animal death.

Table 38: SEP-S midlatency, data window=16.5-90 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.492	0.593	0.582	0.236
	Sex (S)	0.722	0.788	0.310	0.868
	Group (G)	0.024	0.404	0.727	0.006
	T X G	0.925	0.418	0.920	0.779
	T X S	0.732	0.603	0.686	0.500
Contrasts	200 vs 0	0.071	0.187	0.277	0.052
	630 vs 0	0.577	0.466	0.394	0.387
	2000 vs 0	0.698	0.324	0.998	0.668
Covariates	/Body weight	0.671	0.986	0.288	0.468
	/Temperature	0.008	0.234	0.710	0.001

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

Figure 13: Somatosensory Evoked Potential Recorded from the Cerebellum (SEP-C)

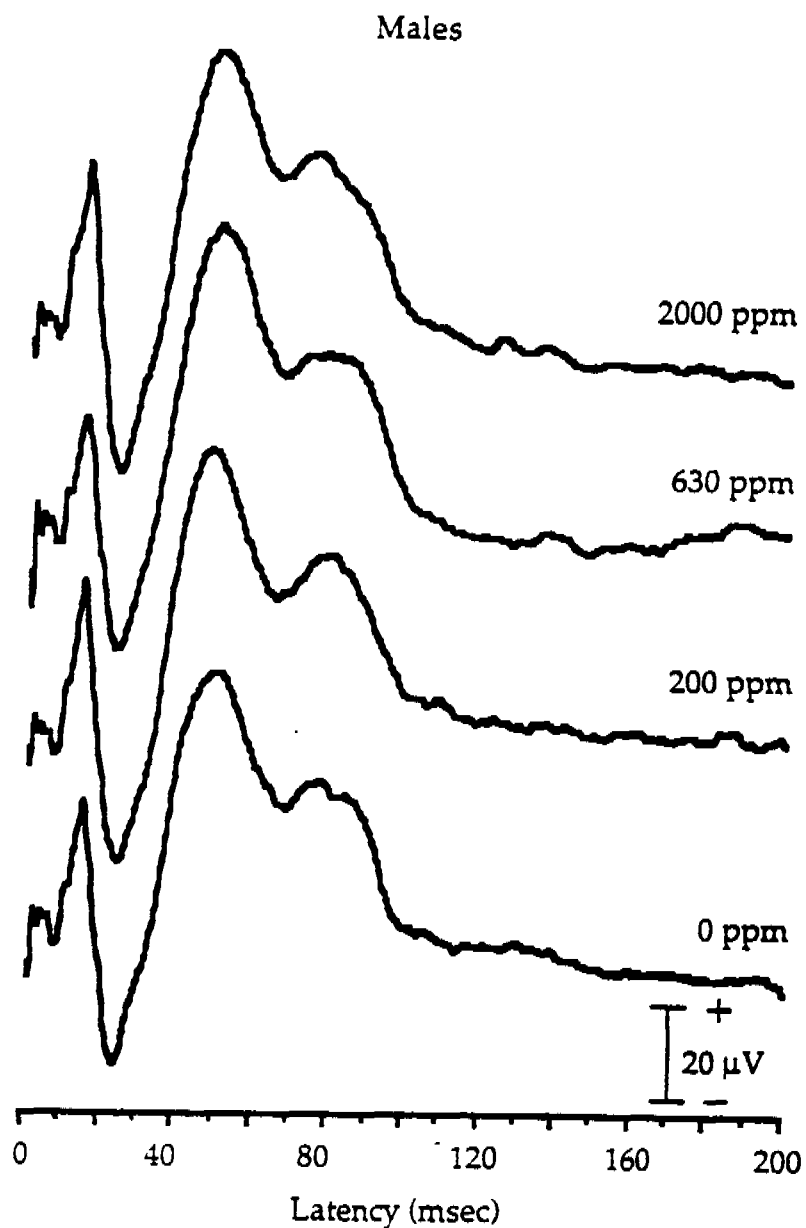
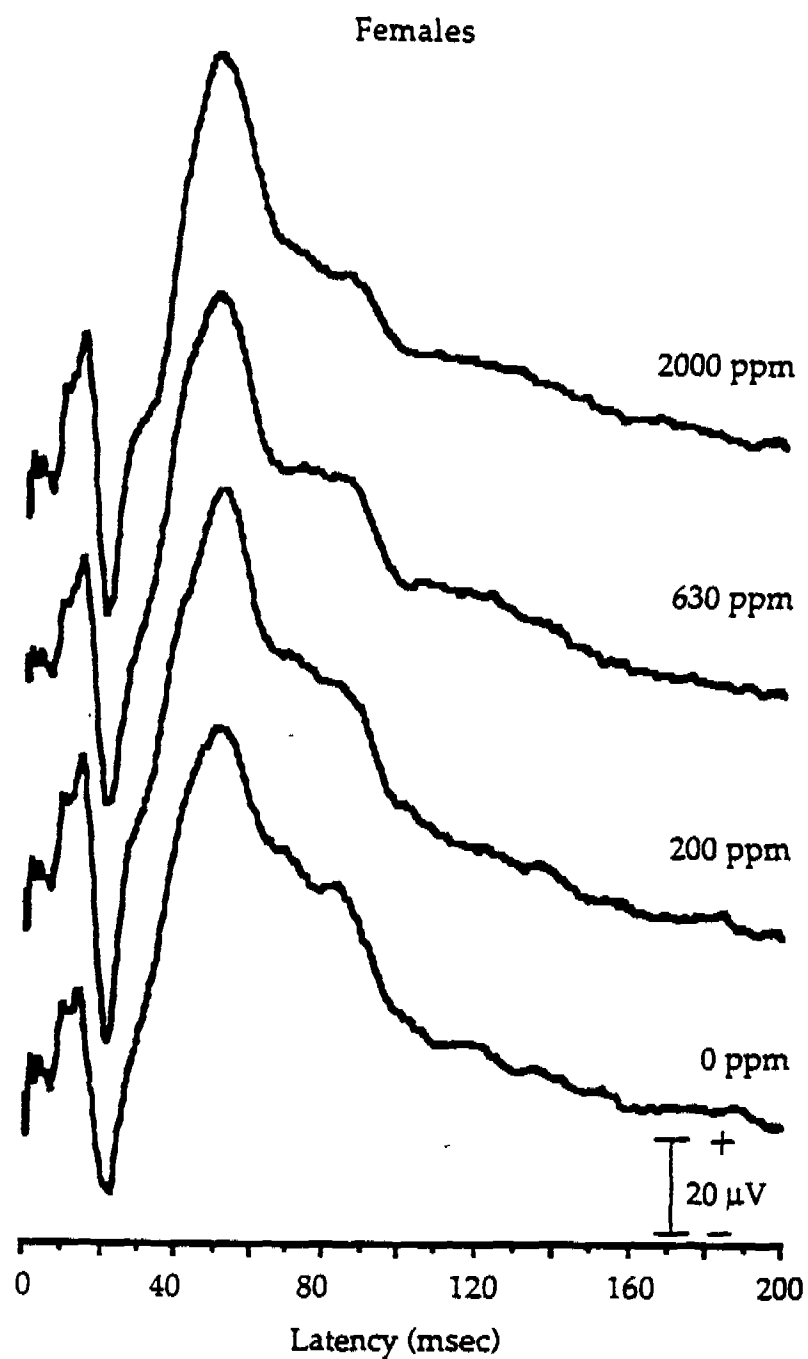


Figure 14: Somatosensory Evoked Potential Recorded from the Cerebellum (SEP-C)



SL 030816

Table 39: SEP-C early latency, data window=4-18 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male</u> , 0 ppm	Mean	-0.01	0.89	7.31
	SD	0.40	0.05	2.11
	N	12	12	12
	200 ppm	Mean	0.89	8.35
		SD	0.06	3.25
		N	12	12
	630 ppm	Mean	0.85	6.86
		SD	0.07	2.09
		N	12	12
	2000 ppm	Mean	0.85	8.74
		SD	0.11	3.62
		N	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	0.10	0.71	6.69
	SD	0.31	0.19	1.89
	N	12	12	12
	200 ppm	Mean	0.79	7.50
		SD	0.07	2.86
		N	12	12
	630 ppm	Mean	0.77	6.35
		SD	0.11	2.42
		N	12	12
	2000 ppm	Mean	0.79	8.19
		SD	0.17	2.60
		N	12	12

^a Sample size one less due to animal death.

Table 40: SEP-C early latency, data window=4-18 msec, Statistical Analyses^a

		ANCOVA			
	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.317	0.211	0.806	0.141
	Sex (S)	0.0001	0.0001	0.234	0.478
	Group (G)	0.892	0.567	0.683	0.687
	T X G	0.870	0.817	0.970	0.292
	T X S	0.340	0.164	0.189	0.866
Contrasts	200 vs 0	0.830	0.738	0.467	0.562
	630 vs 0	0.394	0.140	0.835	0.300
	2000 vs 0	0.406	0.273	0.876	0.219
Covariates	/Body weight	0.001	0.0001	0.906	0.334
	/Temperature	0.0001	0.018	0.016	0.0001

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

Table 41: SEP-C midlatency, data window=18-70 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male, 0 ppm</u>	Mean	-0.10	0.98	27.94
	SD	1.36	0.01	4.75
	N	12	12	12
200 ppm	Mean	-0.10	0.97	30.20
	SD	1.26	0.02	4.84
	N	12	12	12
630 ppm	Mean	0.37	0.97	31.26
	SD	1.56	0.03	5.25
	N	12	12	12
2000 ppm	Mean	0.62	0.97	30.53
	SD	0.79	0.03	6.85
	N	11 ^a	11 ^a	11 ^a
<u>Female, 0 ppm</u>	Mean	-0.13	0.95	33.23
	SD	1.20	0.04	8.73
	N	12	12	12
200 ppm	Mean	-0.27	0.96	36.10
	SD	1.25	0.04	8.14
	N	12	12	12
630 ppm	Mean	-0.20	0.97	34.82
	SD	0.93	0.03	10.65
	N	12	12	12
2000 ppm	Mean	0.10	0.96	37.74
	SD	1.20	0.03	9.26
	N	12	12	12

^a Sample size one less due to animal death.

Table 42: SEP-C midlatency, data window=18-70 msec, Statistical Analyses^a

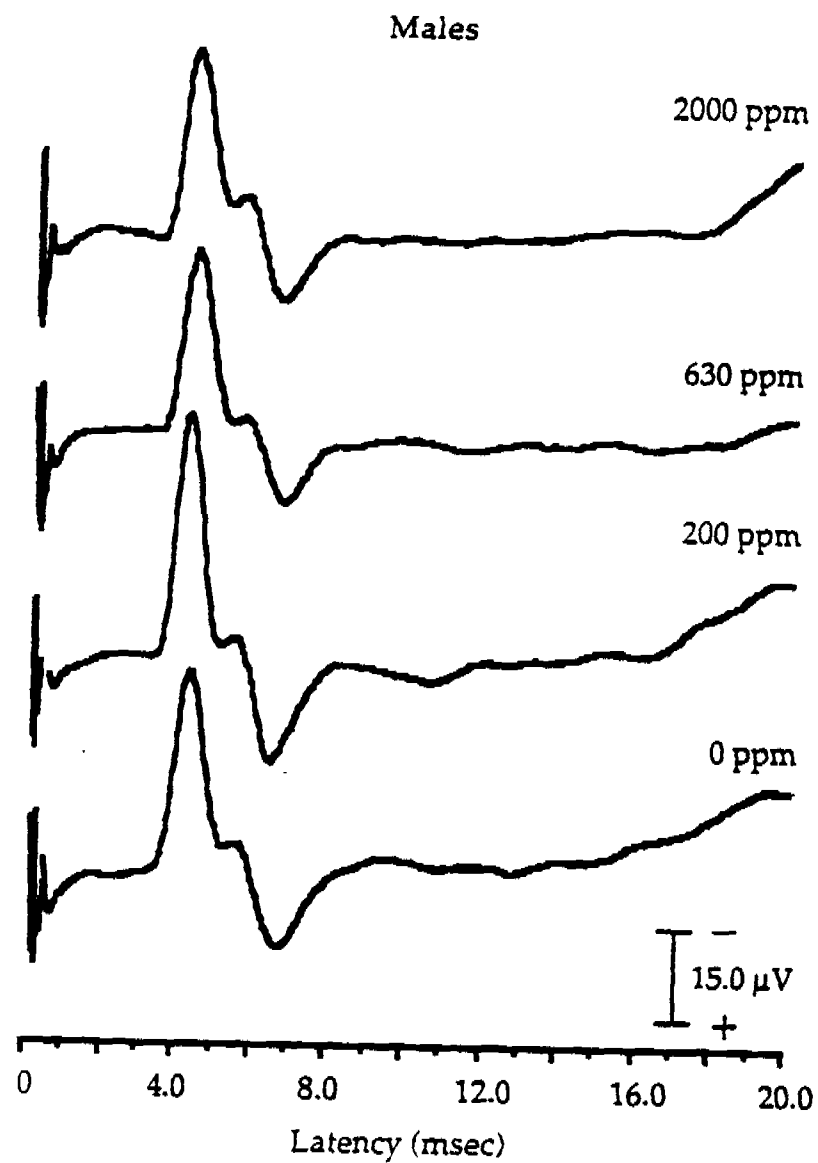
	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.867	0.493	0.783	0.777
	Sex (S)	0.245	0.062	0.334	0.539
	Group (G)	0.633	0.444	0.627	0.478
	T X G	0.892	0.978	0.680	0.550
	T X S	0.806	0.880	0.422	0.587
Contrasts	200 vs 0	0.843	0.910	0.632	0.567
	630 vs 0	0.815	0.553	0.710	0.406
	2000 vs 0	0.393	0.210	0.607	0.337
Covariates	/Body weight	0.043	0.025	0.118	0.664
	/Temperature	0.0001	0.742	0.504	0.0001

^a Values are actual p values; highlighted values are MANCOVA $\alpha < 0.02$, ANCOVA $\alpha < 0.01$.

^b Arcsine transformation was performed on correlation data before statistical analysis.

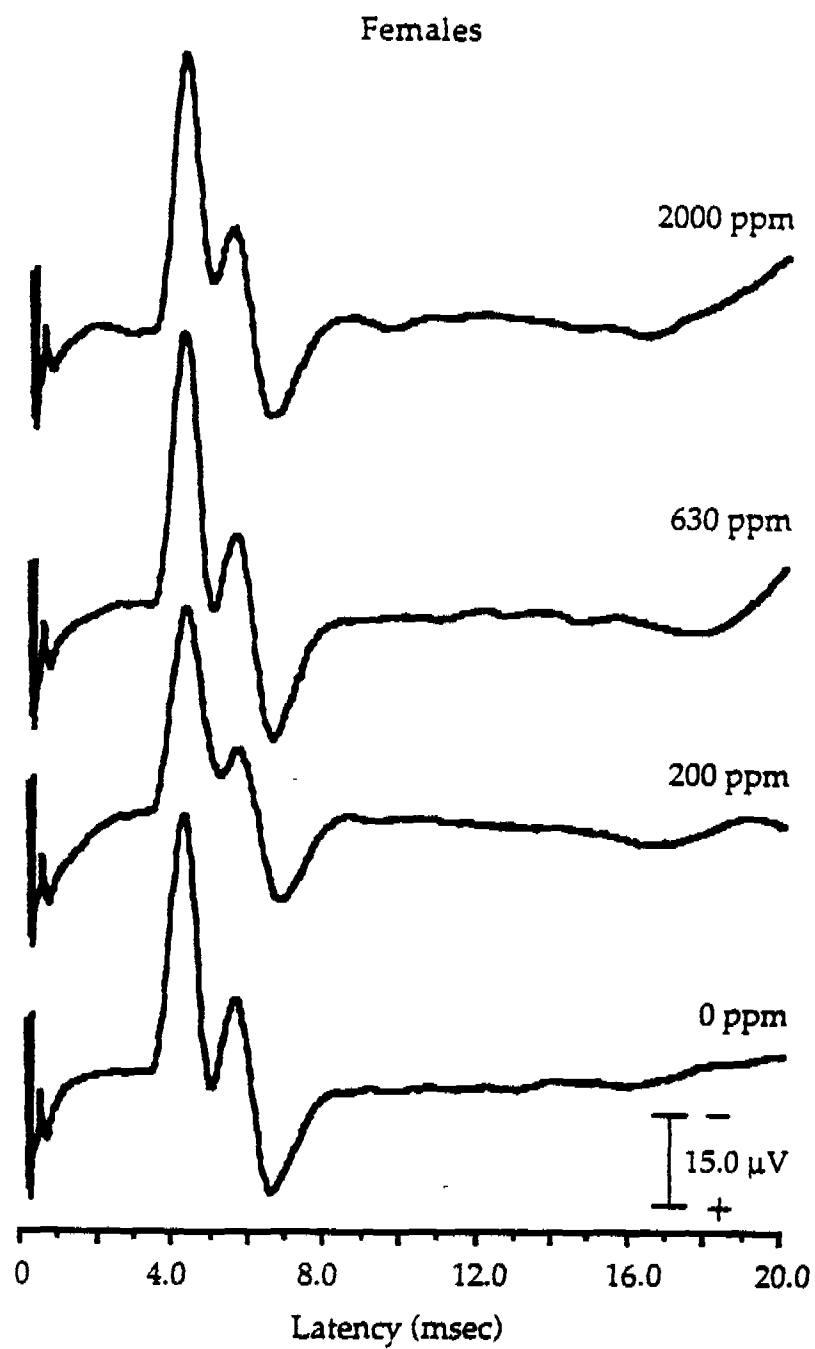
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Figure 15: Caudal Nerve Action Potential, Single-Stimulus



SL 030821

Figure 16: Caudal Nerve Action Potential, Single-Stimulus



SL 030822

Table 43: CNAP single stimulus, data window=2.8-7.4 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male</u> , 0 ppm	Mean	0.08	0.94	15.34
	SD	0.30	0.04	5.33
	N	12	12	12
200 ppm	Mean	-0.08	0.95	16.77
	SD	0.15	0.03	4.26
	N	12	12	12
630 ppm	Mean	0.12	0.95	12.83
	SD	0.26	0.04	4.56
	N	12	12	12
2000 ppm	Mean	0.07	0.94	13.12
	SD	0.30	0.03	3.74
	N	11 ^a	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	0.02	0.98	17.72
	SD	0.16	0.02	3.96
	N	12	12	12
200 ppm	Mean	0.13	0.94	16.99
	SD	0.30	0.07	4.38
	N	12	12	12
630 ppm	Mean	0.03	0.97	19.99
	SD	0.22	0.02	6.48
	N	12	12	12
2000 ppm	Mean	-0.02	0.95	17.80
	SD	0.16	0.04	8.45
	N	12	12	12

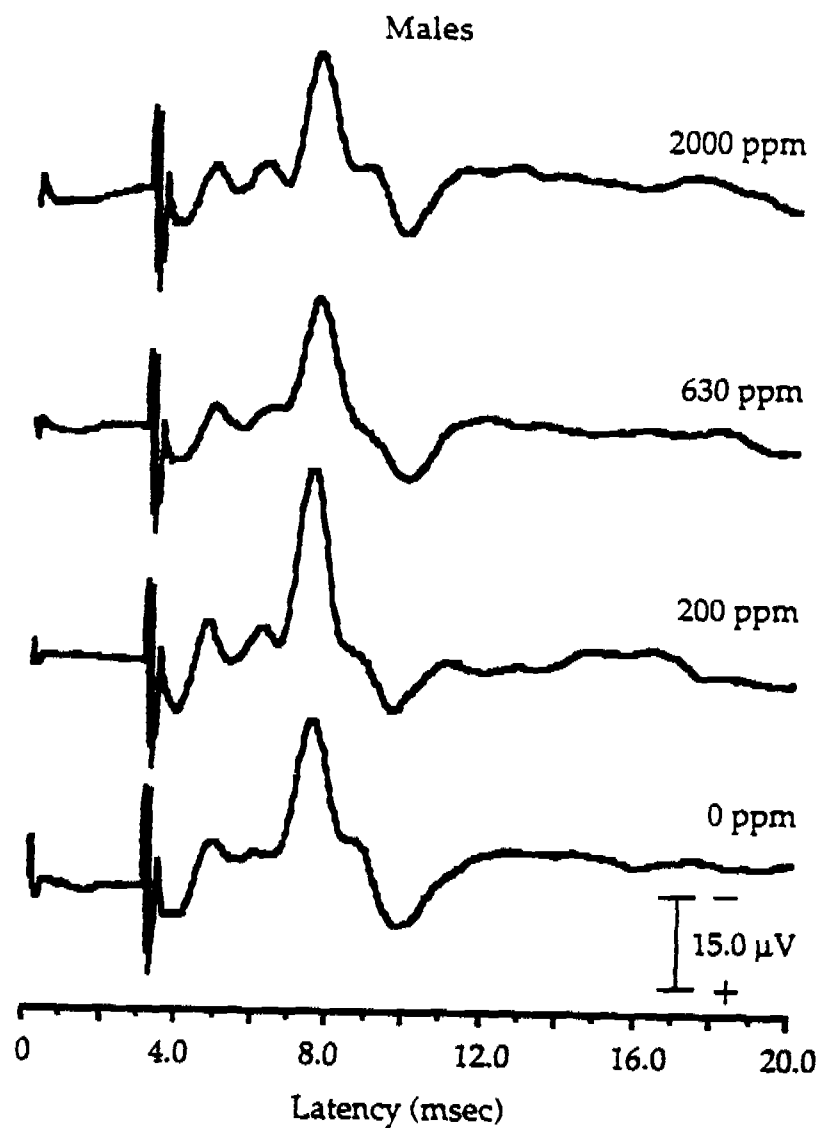
^a Sample size one or two less due to animal death.

Table 44: CNAP, single stimulus, data window=2.8-7.4 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.572	0.797	0.180	0.827
	Sex (S)	0.902	0.583	0.556	0.817
	Group (G)	0.149	0.328	0.294	0.024
	T X G	0.414	0.091	0.793	0.236
	T X S	0.073	0.061	0.127	0.129
Contrasts	200 vs 0	0.385	0.853	0.102	0.820
	630 vs 0	0.911	0.497	0.990	0.938
	2000 vs 0	0.432	0.851	0.132	0.497
Covariates	/Body weight	0.793	0.721	0.794	0.547
	/Temperature	0.092	0.074	0.148	0.976

^a Values are actual p values.^b Arcsine transformation was performed on correlation data before statistical analysis.

Figure 17: Caudal Nerve Action Potential, Second of Paired Stimuli



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Figure 18: Caudal Nerve Action Potential, Second of Paired Stimuli

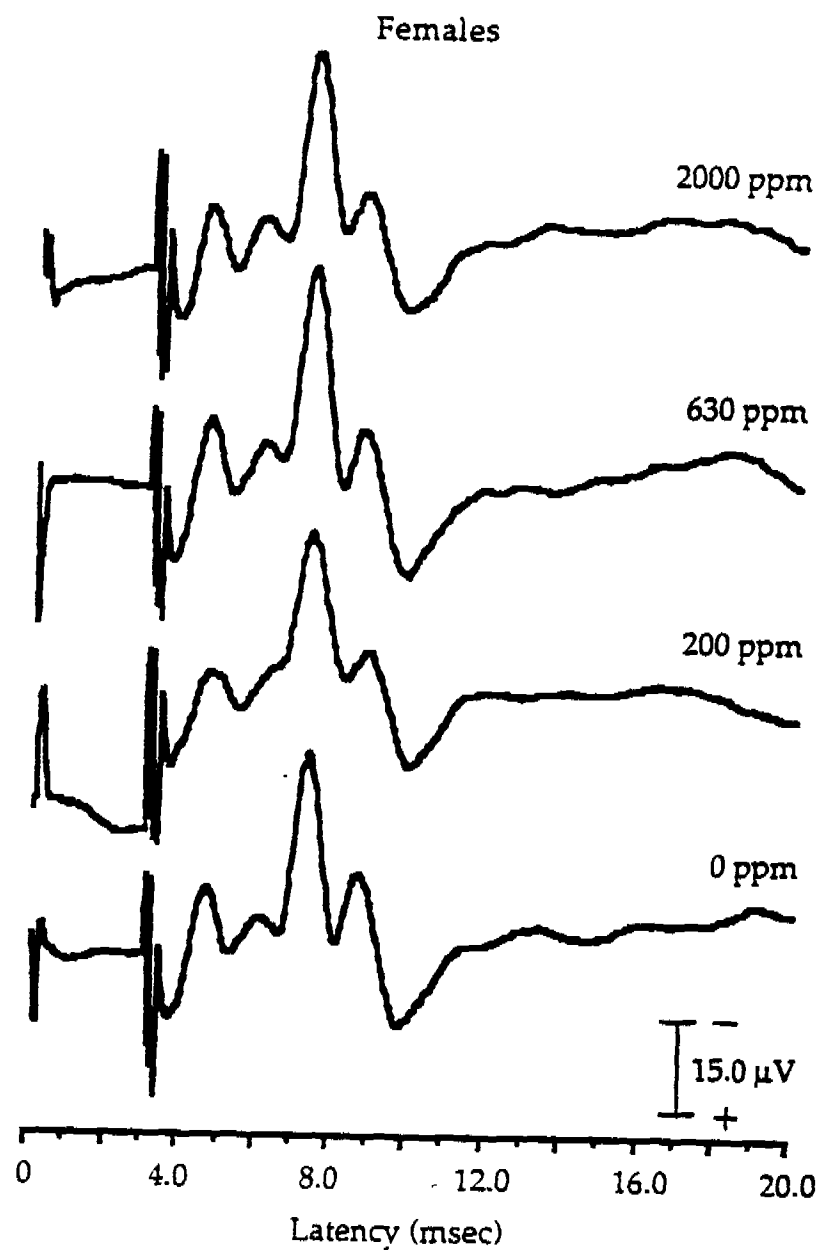


Table 45: CNAP paired stimulus, data window=6-10 msec, Descriptive Statistics

<u>Concentration</u>		<u>Lat Diff (msec)</u>	<u>Correl (r)</u>	<u>Power (RMS μV)</u>
<u>Male</u> , 0 ppm	Mean	0.16	0.94	11.92
	SD	0.39	0.04	4.59
	N	12	12	12
	200 ppm	Mean	0.93	13.02
		SD	0.03	4.12
		N	12	12
	630 ppm	Mean	0.95**	9.80
		SD	0.05	4.35
		N	10	12
	2000 ppm	Mean	0.91*	9.66
		SD	0.08	3.87
		N	11 ^a	11 ^a
<u>Female</u> , 0 ppm	Mean	0.04	0.96	12.96
	SD	0.20	0.04	4.61
	N	12	12	12
	200 ppm	Mean	0.94	12.73
		SD	0.04	3.99
		N	12	12
	630 ppm	Mean	0.95	15.54
		SD	0.06	6.23
		N	12	12
	2000 ppm	Mean	0.91*	13.06
		SD	0.09	7.13
		N	11	12

* One data point removed to establish homogeneity of variance.

** Two data points removed to establish homogeneity of variance.

^a Sample size one less due to animal death.

Table 46: CNAP paired stimulus, data window=6-10 msec, Statistical Analyses^a

	<u>Level/Covariate</u>	<u>MANCOVA</u>	<u>ANCOVA</u>		
			<u>Lat Diff</u>	<u>Correl^b</u>	<u>Power</u>
Overall	Treatment (T)	0.358	0.802	0.086	0.901
	Sex (S)	0.792	0.320	0.593	0.524
	Group (G)	0.088	0.136	0.259	0.112
	T X G	0.219	0.031	0.137	0.020
	T X S	0.353	0.339	0.868	0.190
Contrasts	200 vs 0	0.559	0.475	0.330	0.749
	630 vs 0	0.968	0.667	0.910	0.648
	2000 vs 0	0.060	0.348	0.028	0.802
Covariates	/Body weight	0.733	0.349	0.843	0.991
	/Temperature	0.291	0.080	0.672	0.757

^a Values are actual p values.^b Arcsine transformation was performed on correlation data before statistical analysis.

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Table 47: Outliers as Identified by the F-Max Test for Homogeneity

Animal ID SEX	Conc ppm	Variable	Mean*	Value removed
90A3799 M	0	FEP-V, 94.5-280.0 ms, correlation	0.96	0.604
90A3792 M				0.656
90A3857 F		FEP-V, 94.5-280.0 ms, correlation	0.97	0.000
90A3868 F	200	FEP-V, 94.5-280.0 ms, correlation	0.91	0.364
90A3862 F				0.431
90A3811 M		ABR 10kHz, 1.5-5.9 ms, correlation	0.69	0.248
90A3885 F	630	FEP-V, 35-95.1 ms, latency difference	-0.90	7.50
90A3887 F		ABR click, 1-5 ms, correlation	0.93	0.617
90A3828 M		CNAP paired, 6-10 ms, correlation	0.95	0.202
90A3824 M				0.643
90A3901 F	2000	FEP-V, 94.5-280.0 ms, correlation	0.93	0.366
90A3895 F		SEP-S, 4-16.5 ms, latency difference	0.17	-2.80
90A3845 M		CNAP paired, 6-10 ms, correlation	0.91	0.172
90A3893 F		CNAP paired, 6-10 ms, correlation	0.91	0.589

*Mean of group after outlier was removed.

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Table 48: Spontaneous or moribund animals submitted for necropsy.

Animal ID	Sex	Dose (ppm)	Reason for removal
90A3794	M	0	Anesthetic related death; day 64
90A3801	M	0	Lost implant; day 93
90A3810	M	200	Spont. death (no diagnosis; day 126)
90A3816	M	200	Lost implant; day 94
90A3822	M	630	Moribund (loss of upper incisors; day 126)
90A3827	M	630	Anesthetic related death; day 63
90A3831	M	630	Lost implant; day 128
90A3836	M	2000	Lost implant; day 93
90A3846	M	2000	Congested viscera, no diagnosis; day 59
90A3858	F	0	Lost implant; day 94
90A3859	F	0	Lost implant; day 121
90A3866	F	200	Anesthetic related death; day 66
90A3871	F	200	Lost implant; day 93
90A3880	F	630	Lost implant; day 113
90A3894	F	2000	Anesthetic related death; day 66
90A3896	F	2000	Accident (trauma); day 67

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TABLE 49: GROSS PATHOLOGIC OBSERVATIONS^a - MAIN STUDY

GROSS PATHOLOGIC OBSERVATIONS ^a - MAIN STUDY										
SEX	EXPOSURE CONCENTRATION IN PPM	NUMBER OF RATS EXAMINED	MALES				FEMALES			
			0	200	630	2000	0	200	630	2000
			5	5	5	5	5	5	5	5
<u>EXTERNAL AND SKIN</u>										
WITHIN NORMAL LIMITS.			5	5	4	5	5	5	4	5
ABSCESS, HEAD, FOCAL:			0	0	1	0	0	0	1	0
<u>ALL OTHER TISSUES</u> (COMPLETE NECROPSY PERFORMED)										
WITHIN NORMAL LIMITS.			5	5	5	5	5	5	5	5

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

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TABLE 50: GROSS PATHOLOGIC OBSERVATIONS^Q - RECOVERY PORTION

<u>SEX</u>	<u>MALES</u>				<u>FEMALES</u>			
	<u>0</u>	<u>200</u>	<u>630</u>	<u>2000</u>	<u>0</u>	<u>200</u>	<u>630</u>	<u>2000</u>
<u>EXPOSURE CONCENTRATION IN PPM</u>								
<u>NUMBER OF RATS EXAMINED</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>
<u>EXTERNAL AND SKIN</u>								
WITHIN NORMAL LIMITS.	6	6	7	6	7	7	7	7
ABSCESS, HEAD, FOCAL:	1	1	0	1	0	0	0	0
<u>EYES</u>								
WITHIN NORMAL LIMITS.	7	7	7	7	6	7	7	7
OPACITY, LENS, LEFT:	0	0	0	0	1	0	0	0
<u>PREPUTIAL OR CLITORAL GLANDS</u>								
WITHIN NORMAL LIMITS	7	7	7	7	7	6	7	7
ABSCESS, UNILATERAL	0	0	0	0	0	1	0	0
<u>URINARY BLADDER</u>								
WITHIN NORMAL LIMITS	7	7	7	7	7	7	7	6
CALCULUS(I), LUMEN:	0	0	0	0	0	0	0	1
THICKENED, WALL:	0	0	0	0	0	0	0	1
<u>ALL OTHER TISSUES (COMPLETE NECROPSY PERFORMED)</u>								
WITHIN NORMAL LIMITS.	7	7	7	7	7	7	7	7

^Q DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.
FIVE MALE AND FIVE FEMALE RATS FROM EACH GROUP WERE RANDOMLY SELECTED BY THE NEUROTOXICOLOGY GROUP FOR POSSIBLE NEUROPATHOLOGIC EVALUATION.

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Table 51: Brain Weights^a

<u>Concentration</u>		<u>Brain Weight (g)</u>
<u>Male</u> , 0 ppm 200 ppm 630 ppm 2000 ppm <u>Female</u> , 0 ppm 200 ppm 630 ppm 2000 ppm	Mean	1.87
	SD	0.07
	N	5
	Mean	1.82
	SD	0.04
	N	5
	Mean	1.81
	SD	0.07
	N	5
	Mean	1.88
	SD	0.05
	N	5
	Mean	1.69
	SD	0.05
	N	5
	Mean	1.70
	SD	0.04
	N	5
	Mean	1.68
	SD	0.03
	N	5
	Mean	1.71
	SD	0.04
	N	5

a No significant differences (ANOVA $\alpha < 0.02$). Body weight was used as a covariate and sex was used as a factor.

1,1,1-T subchronic neurotoxicity

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TABLE 52: HISTOPATHOLOGIC OBSERVATIONS^a - MAIN STUDY

<u>SEX</u> <u>EXPOSURE CONCENTRATION IN PPM</u> <u>NUMBER OF RATS EXAMINED</u>	<u>MALES</u>		<u>FEMALES</u>	
	<u>0</u>	<u>2000</u>	<u>0</u>	<u>2000</u>
	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
BRAIN - CEREBELLUM (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
BRAIN - CEREBRUM (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
BRAIN - FOREBRAIN (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	4	5	3	5
ATROPHY, GRAY MATTER, UNILATERAL, FOCAL:	0	0	1	0
INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL:	1	0	0	0
INFLAMMATION - CHRONIC, MENINGES, BILATERAL, MULTIFOCAL:	0	0	1	0
BRAIN - MEDULLA OBLONGATA (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
BRAIN - MIDBRAIN (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	2	3	2	5
INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL:	3	2	2	0
INFLAMMATION - CHRONIC, MENINGES, BILATERAL, MULTIFOCAL:	0	0	1	0
BRAIN - PONS (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
DORSAL ROOT GANGLIA (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

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TABLE 52, continued: HISTOPATHOLOGIC OBSERVATIONS^a - MAIN STUDY

<u>SEX</u> <u>EXPOSURE CONCENTRATION IN PPM</u> <u>NUMBER OF RATS EXAMINED</u>	<u>MALES</u>		<u>FEMALES</u>	
	<u>0</u>	<u>2000</u>	<u>0</u>	<u>2000</u>
	5	5	5	5
EYES (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
GASSERIAN GANGLIA (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
PERIPHERAL NERVE - OPTIC (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
PERIPHERAL NERVE - SCIATIC (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
PERIPHERAL NERVE - SURAL (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
PERIPHERAL NERVE - TIBIAL (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
SKELETAL MUSCLE (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
SPINAL CORD - CERVICAL (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5
SPINAL CORD - LUMBAR (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

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TABLE 52, continued: HISTOPATHOLOGIC OBSERVATIONS^a - MAIN STUDY

<u>SEX</u>	<u>MALES</u>		<u>FEMALES</u>	
<u>EXPOSURE CONCENTRATION IN PPM</u>	<u>0</u>	<u>2000</u>	<u>0</u>	<u>2000</u>
<u>NUMBER OF RATS EXAMINED</u>	5	5	5	5
SPINAL NERVE ROOTS (NO. OF TISSUES EXAMINED)	5	5	5	5
WITHIN NORMAL LIMITS:	5	5	5	5

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

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TABLE 53: HISTOPATHOLOGIC OBSERVATIONS^a - RECOVERY PORTION

SEX EXPOSURE CONCENTRATION IN PPM NUMBER OF RATS EXAMINED	MALES		FEMALES	
	0	2000	0	2000
	5	5	5	5
DIGITS (NO. OF TISSUES EXAMINED) WITHIN NORMAL LIMITS:	5	5	5	5
PERIPHERAL NERVE - MEDIAN (NO. OF TISSUES EXAMINED) WITHIN NORMAL LIMITS:	5	5	5	5
SKELETAL MUSCLE (NO. OF TISSUES EXAMINED) WITHIN NORMAL LIMITS:	5	5	5	5

^a DATA ARE THE NUMBER OF ANIMALS WITH THE SPECIFIED OBSERVATION.

Appendix A, Water Analyses

MIDLAND WATER PURIFICATION PLANT

DOMESTIC WATER LABORATORY ANALYSES[®]

	<u>JUNE 1990</u>	<u>JULY 1990</u>	<u>AUGUST 1990</u>	<u>SEPTEMBER 1990</u>
SAMPLE TEMP., °C	14	17	19	19
TURBIDITY, NTU	0.09	0.09	0.13	0.18
pH	9.2	9.0	8.8	8.9
CONDUCTANCE, MICROMHOS/CM	173	172	171	170
HARDNESS TOTAL (MG/L)	75	74	74	74
NON-CARBONATE (MG/L)	31	31	32	32
ALKALINITY TOTAL (MG/L)	44	43	42	42
CARBONATE (MG/L)	9	7	4	4
BICARBONATE (MG/L)	35	36	37	38
CALCIUM (MG/L)	18.0	17.9	17.7	17.6
MAGNESIUM (MG/L)	7.4	7.3	7.3	7.2
CHLORIDES (MG/L)	18	18	19	18
FLUORIDES (MG/L)	1.08	1.09	1.15	1.10
CHLORINE FREE (MG/L)	0.98	0.94	0.98	0.99
TOTAL (MG/L)	---	1.24	1.20	1.25
PHOSPHATE ORTHO (MG/L)	0.02	0.06	0.07	0.08
TOTAL (MG/L)	0.37	0.51	0.40	0.35
IRON (MG/L)	0.06	0.05	0.06	0.07
LANGELIER STABILITY INDEX	+0.4	+0.4	+0.2	+0.2

[®] STANDARD METHODS FOR EXAMINATION OF WATER AND WASTE WATER, 16TH ED. (1985), AMERICAN PUBLIC HEALTH ASSOCIATION AND AMERICAN WATER WORKS; WASHINGTON, D.C.
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SL 030838

Appendix B: Chamber Analyses

Temperature and Relative Humidity - Control

DATE	R.H.	MIN TEMP.	MAX. TEMP.
29-May-90	44	20	22
30-May-90	43	20	22
31-May-90	50	20	22
1-Jun-90	55	21	22
4-Jun-90	50	20	22
5-Jun-90	53	20	22
6-Jun-90	57	19	22
7-Jun-90	54	20	21
8-Jun-90	63	21	22
11-Jun-90	56	21	21
12-Jun-90	63	22	22
13-Jun-90	65	21	22
14-Jun-90	65	22	22
15-Jun-90	60	21	22
18-Jun-90	63	21	22
19-Jun-90	54	21	22
20-Jun-90	59	21	22
21-Jun-90	63	21	22
22-Jun-90	66	22	22
25-Jun-90	59	22	22
26-Jun-90	68	22	22
27-Jun-90	67	22	22
28-Jun-90	66	22	22
29-Jun-90	65	22	22
2-Jul-90	63	22	22
3-Jul-90	65	21	22
5-Jul-90	66	21	22
6-Jul-90	52	21	21
9-Jul-90	65	21	21

SL 030839

Appendix B, continued: Chamber Analyses

Temperature and Relative Humidity - Control

DATE	R.H.	MIN TEMP.	MAX. TEMP.
10-Jul-90	66	21	21
11-Jul-90	63	22	22
12-Jul-90	61	22	22
13-Jul-90	53	21	22
16-Jul-90	58	22	22
17-Jul-90	68	21	21
18-Jul-90	66	22	22
19-Jul-90	68	22	22
20-Jul-90	72	20	22
23-Jul-90	67	22	22
24-Jul-90	68	22	22
25-Jul-90	63	21	22
26-Jul-90	65	21	22
27-Jul-90	65	20	22
30-Jul-90	68	21	22
31-Jul-90	58	21	22
1-Aug-90	62	21	22
2-Aug-90	64	21	21
3-Aug-90	65	21	22
6-Aug-90	66	21	22
7-Aug-90	61	21	22
8-Aug-90	64	21	22
9-Aug-90	63	20	22
10-Aug-90	63	21	22
13-Aug-90	65	21	22
14-Aug-90	60	21	22
15-Aug-90	68	22	22
16-Aug-90	68	21	22
17-Aug-90	67	21	22
20-Aug-90	67	21	22
21-Aug-90	68	21	22
22-Aug-90	68	21	22
23-Aug-90	69	21	22
24-Aug-90	67	21	22
27-Aug-90	70	22	22
28-Aug-90	72	21	22
29-Aug-90	65	21	22
30-Aug-90	65	21	22
31-Aug-90	66	21	22
N=	68	68	68
MEAN	62.7	21.1	21.9
S.D.	6.1	0.7	0.3
MIN.	43	19	21
MAX.	72	22	22

SL 030840

Appendix B, continued: Chamber Analyses

Temperature and Relative Humidity - 200 ppm

DATE	R.H.	MIN TEMP.	MAX. TEMP.
29-May-90	50	20	22
30-May-90	50	21	23
31-May-90	50	21	22
1-Jun-90	48	21	22
4-Jun-90	50	21	22
5-Jun-90	50	19	21
6-Jun-90	50	18	21
7-Jun-90	50	21	22
8-Jun-90	51	22	22
11-Jun-90	50	21	22
12-Jun-90	52	21	22
13-Jun-90	53	21	22
14-Jun-90	55	22	22
15-Jun-90	50	21	22
18-Jun-90	52	21	22
19-Jun-90	50	21	22
20-Jun-90	53	22	22
21-Jun-90	53	21	22
22-Jun-90	53	22	22
25-Jun-90	51	21	22
26-Jun-90	52	22	22
27-Jun-90	54	22	22
28-Jun-90	52	21	22
29-Jun-90	55	21	22
2-Jul-90	52	21	22
3-Jul-90	53	21	22
5-Jul-90	53	22	23
6-Jul-90	51	21	22
9-Jul-90	54	21	22

SL 030841

Appendix B, continued: Chamber Analyses

Temperature and Relative Humidity - 200 ppm

DATE	R.H.	MIN TEMP.	MAX. TEMP.
10-Jul-90	54	22	22
11-Jul-90	50	21	22
12-Jul-90	50	21	22
13-Jul-90	50	21	22
16-Jul-90	53	22	23
17-Jul-90	57	22	22
18-Jul-90	55	21	22
19-Jul-90	56	22	22
20-Jul-90	56	21	22
23-Jul-90	53	21	22
24-Jul-90	52	21	22
25-Jul-90	52	21	22
26-Jul-90	52	20	21
27-Jul-90	53	21	21
30-Jul-90	57	21	22
31-Jul-90	50	21	22
1-Aug-90	51	22	22
2-Aug-90	51	21	22
3-Aug-90	52	23	24
6-Aug-90	53	21	22
7-Aug-90	53	21	22
8-Aug-90	54	21	22
9-Aug-90	52	21	22
10-Aug-90	52	21	22
13-Aug-90	53	21	23
14-Aug-90	50	22	22
15-Aug-90	55	22	22
16-Aug-90	55	21	22
17-Aug-90	55	21	22
20-Aug-90	56	22	22
21-Aug-90	56	21	22
22-Aug-90	56	21	22
23-Aug-90	57	22	23
24-Aug-90	56	22	23
27-Aug-90	58	21	22
28-Aug-90	58	21	22
29-Aug-90	55	21	22
30-Aug-90	54	21	22
31-Aug-90	54	21	22
N=	68	68	68
MEAN	52.8	21.2	22.1
S.D.	2.4	0.7	0.5
MIN.	48	18	21
MAX.	58	23	24

Appendix B, continued: Chamber Analyses

Temperature and Relative Humidity - 630 ppm

DATE	R.H.	MIN TEMP.	MAX. TEMP.
29-May-90	50	20	22
30-May-90	52	20	22
31-May-90	51	20	22
1-Jun-90	49	20	21
4-Jun-90	52	21	22
5-Jun-90	51	20	21
6-Jun-90	50	19	21
7-Jun-90	51	20	21
8-Jun-90	53	21	22
11-Jun-90	51	20	22
12-Jun-90	53	20	21
13-Jun-90	54	20	21
14-Jun-90	55	21	22
15-Jun-90	51	20	21
18-Jun-90	53	21	21
19-Jun-90	51	21	22
20-Jun-90	54	21	21
21-Jun-90	54	21	21
22-Jun-90	54	21	22
25-Jun-90	52	21	22
26-Jun-90	53	21	21
27-Jun-90	51	21	22
28-Jun-90	54	21	22
29-Jun-90	55	21	22
2-Jul-90	54	21	21
3-Jul-90	51	20	21
5-Jul-90	54	21	22
6-Jul-90	51	21	21
9-Jul-90	54	20	22

Appendix B, continued: Chamber Analyses

Temperature and Relative Humidity - 630 ppm

DATE	R.H.	MIN TEMP.	MAX. TEMP.
10-Jul-90	54	21	22
11-Jul-90	51	21	22
12-Jul-90	50	21	22
13-Jul-90	50	21	22
16-Jul-90	54	21	23
17-Jul-90	55	21	22
18-Jul-90	54	21	22
19-Jul-90	56	21	22
20-Jul-90	56	20	22
23-Jul-90	54	21	22
24-Jul-90	53	20	21
25-Jul-90	53	20	21
26-Jul-90	54	20	21
27-Jul-90	54	20	21
30-Jul-90	55	21	22
31-Jul-90	50	20	22
1-Aug-90	51	21	22
2-Aug-90	51	21	21
3-Aug-90	53	20	21
6-Aug-90	54	21	22
7-Aug-90	50	21	22
8-Aug-90	51	21	22
9-Aug-90	51	20	22
10-Aug-90	52	21	22
13-Aug-90	53	20	22
14-Aug-90	50	21	22
15-Aug-90	56	21	22
16-Aug-90	55	21	22
17-Aug-90	55	20	21
20-Aug-90	56	21	22
21-Aug-90	55	21	22
22-Aug-90	55	21	22
23-Aug-90	56	21	22
24-Aug-90	55	21	22
27-Aug-90	58	21	22
28-Aug-90	61	21	22
29-Aug-90	54	20	21
30-Aug-90	54	20	21
31-Aug-90	54	20	21
N=	68	68	68
MEAN	53.1	20.6	21.7
S.D.	2.2	0.5	0.5
MIN.	49	19	21
MAX.	61	21	23

Appendix B, continued: Chamber Analyses

Temperature and Relative Humidity - 2000 ppm

DATE	R.H.	MIN TEMP.	MAX. TEMP.
29-May-90	49	20	23
30-May-90	51	21	22
31-May-90	50	20	22
1-Jun-90	48	20	21
4-Jun-90	51	19	21
5-Jun-90	50	21	22
6-Jun-90	48	19	21
7-Jun-90	50	21	22
8-Jun-90	52	21	22
11-Jun-90	50	21	22
12-Jun-90	52	21	22
13-Jun-90	53	21	22
14-Jun-90	53	21	22
15-Jun-90	50	20	21
18-Jun-90	50	21	22
19-Jun-90	50	21	22
20-Jun-90	53	21	22
21-Jun-90	50	21	21
22-Jun-90	52	22	22
25-Jun-90	50	21	22
26-Jun-90	51	22	22
27-Jun-90	54	21	22
28-Jun-90	53	21	22
29-Jun-90	52	21	22
2-Jul-90	50	21	22
3-Jul-90	52	20	22
5-Jul-90	51	21	22
6-Jul-90	50	21	22
9-Jul-90	52	21	22

Appendix B, continued: Chamber Analyses

Temperature and Relative Humidity - 2000 ppm

DATE	R.H.	MIN TEMP.	MAX. TEMP.
10-Jul-90	51	21	22
11-Jul-90	50	21	22
12-Jul-90	49	21	22
13-Jul-90	50	21	22
16-Jul-90	51	20	25
17-Jul-90	53	21	22
18-Jul-90	52	21	21
19-Jul-90	54	21	22
20-Jul-90	54	21	22
23-Jul-90	52	21	22
24-Jul-90	51	21	21
25-Jul-90	50	21	22
26-Jul-90	51	21	22
27-Jul-90	51	20	22
30-Jul-90	53	21	21
31-Jul-90	59	21	22
1-Aug-90	50	21	22
2-Aug-90	50	21	21
3-Aug-90	51	21	21
6-Aug-90	53	21	22
7-Aug-90	50	21	21
8-Aug-90	51	21	22
9-Aug-90	50	21	22
10-Aug-90	50	21	22
13-Aug-90	51	21	22
14-Aug-90	46	21	22
15-Aug-90	54	21	22
16-Aug-90	53	22	22
17-Aug-90	52	21	22
20-Aug-90	53	21	22
21-Aug-90	53	21	22
22-Aug-90	53	21	22
23-Aug-90	53	21	22
24-Aug-90	53	21	22
27-Aug-90	55	21	22
28-Aug-90	57	21	22
29-Aug-90	51	21	21
30-Aug-90	50	21	21
31-Aug-90	51	20	21
N=	68	68	68
MEAN	51.4	20.9	21.9
S.D.	2.0	0.5	0.6
MIN.	46	19	21
MAX.	59	22	25

Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - CONTROL

DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.						
29-May-90	8:43	9:21	0.0	11:22	0.0	10:22	0.0	10:52	0.0	11:22	0.0	11:52	0.0	0.0	0.0	11			
		12:23	0.0	12:53	0.0	13:23	0.0	13:53	0.0	14:24	0.0								
30-May-90	7:44	9:22	0.0	9:52	0.0	10:22	0.0	10:53	0.0	11:23	0.0	11:53	0.0	0.0	0.0	11			
		12:23	0.0	12:54	0.0	13:24	0.0	13:54	0.0	14:24	0.0								
31-May-90	9:05	9:43	0.0	10:13	0.0	10:44	0.0	11:14	0.0	11:44	0.0	12:15	0.0	0.0	0.0	11			
		12:45	0.0	13:15	0.0	13:45	0.0	14:15	0.0	14:46	0.0								
1-Jun-90	8:43	9:21	0.0	9:51	0.0	10:21	0.0	10:51	0.0	11:22	0.0	11:52	0.0	0.0	0.0	11			
		12:22	0.0	12:52	0.0	13:23	0.0	13:53	0.0	14:23	0.0								
4-Jun-90	9:00	9:40	0.0	10:10	0.0	10:41	0.0	11:11	0.0	11:41	0.0	12:11	0.0	0.0	0.0	11			
		12:42	0.0	13:12	0.0	13:42	0.0	14:13	0.0	14:43	0.0								
5-Jun-90	8:57	9:35	0.0	10:05	0.0	10:35	0.0	11:05	0.0	11:36	0.0	12:06	0.0	0.0	0.0	11			
		12:36	0.0	13:06	0.0	13:37	0.0	14:07	0.0	14:37	0.0								
6-Jun-90	9:00	9:36	0.0	10:07	0.0	10:37	0.0	11:07	0.0	11:37	0.0	12:08	0.0	0.0	0.0	11			
		12:38	0.0	13:08	0.0	13:39	0.0	14:09	0.0	14:39	0.0								
7-Jun-90	8:47	9:27	0.0	9:57	0.0	10:27	0.0	10:58	0.0	11:28	0.0	11:58	0.0	0.0	0.0	11			
		12:29	0.0	12:59	0.0	13:29	0.0	13:59	0.0	14:30	0.0								
8-Jun-90	8:43	9:21	0.0	9:51	0.0	10:22	0.0	10:52	0.0	11:22	0.0	11:52	0.0	0.0	0.0	11			
		12:23	0.0	12:53	0.0	13:23	0.0	13:53	0.0	14:24	0.0								
11-Jun-90	8:45	9:24	0.0	9:55	0.0	10:26	0.0	10:57	0.0	11:28	0.0	11:59	0.0	0.0	0.0	11			
		12:30	0.0	13:01	0.0	13:32	0.0	14:03	0.0	14:34	0.0								
12-Jun-91	8:36	9:14	0.0	9:44	0.0	10:14	0.0	10:44	0.0	11:15	0.0	11:45	0.0	0.0	0.0	11			
		12:15	0.0	12:46	0.0	13:16	0.0	13:46	0.0	14:16	0.0								
13-Jun-90	8:46	9:24	0.0	9:54	0.0	10:24	0.0	10:55	0.0	11:25	0.0	11:55	0.0	0.0	0.0	11			
		12:25	0.0	12:56	0.0	13:26	0.0	13:56	0.0	14:26	0.0								
14-Jun-90	8:46	9:24	0.0	9:54	0.0	10:24	0.0	10:55	0.0	11:25	0.0	11:55	0.0	0.0	0.0	11			
		12:25	0.0	12:56	0.0	13:26	0.0	13:56	0.0	14:26	0.0								
15-Jun-90	8:48	9:25	0.0	9:55	0.0	10:26	0.0	10:56	0.0	11:26	0.0	11:56	0.0	0.0	0.0	11			
		12:27	0.0	12:57	0.0	13:27	0.0	13:57	0.0	14:28	0.0								

1,1,1-T subchronic neurotoxicity

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Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - CONTROL (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA													
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.	N
18-Jun-90	8:43	9:21	0.0	9:51	0.0	10:21	0.0	10:51	0.0	11:22	0.0	11:52	0.0	0.0	0.0	11
		12:22	0.0	12:52	0.0	13:23	0.0	13:53	0.0	14:23	0.0					
19-Jun-90	8:37	9:15	0.0	9:45	0.0	10:15	0.0	10:46	0.0	11:16	0.0	11:46	0.0	0.0	0.0	11
		12:16	0.0	12:47	0.0	13:17	0.0	13:47	0.0	14:17	0.0					
20-Jun-90	8:36	9:13	0.0	9:44	0.0	10:14	0.0	10:44	0.0	11:15	0.0	11:45	0.0	0.0	0.0	11
		12:15	0.0	12:45	0.0	13:16	0.0	13:46	0.0	14:16	0.0					
21-Jun-90	8:37	9:15	0.0	9:45	0.0	10:16	0.0	10:46	0.0	11:16	0.0	11:46	0.0	0.0	0.0	11
		12:16	0.0	12:47	0.0	13:17	0.0	13:47	0.0	14:18	0.0					
22-Jun-90	8:38	9:16	0.0	9:46	0.0	10:16	0.0	10:47	0.0	11:17	0.0	11:47	0.0	0.0	0.0	11
		12:18	0.0	12:48	0.0	13:18	0.0	13:49	0.0	14:19	0.0					
25-Jun-90	8:48	9:26	0.0	9:56	0.0	10:26	0.0	10:56	0.0	11:27	0.0	11:57	0.0	0.0	0.0	11
		12:27	0.0	12:58	0.0	13:28	0.0	13:58	0.0	14:28	0.0					
26-Jun-90	8:23	9:00	0.0	9:31	0.0	10:01	0.0	10:31	0.0	11:01	0.0	11:32	0.0	0.0	0.0	11
		12:02	0.0	12:32	0.0	13:02	0.0	13:33	0.0	14:03	0.0					
27-Jun-90	8:30	9:13	0.0	9:43	0.0	10:13	0.0	10:43	0.0	11:14	0.0	11:44	0.0	0.0	0.0	11
		12:14	0.0	12:44	0.0	13:15	0.0	13:45	0.0	14:15	0.0					
28-Jun-90	8:38	9:16	0.0	9:46	0.0	10:17	0.0	10:47	0.0	11:17	0.0	11:47	0.0	0.0	0.0	11
		12:18	0.0	12:48	0.0	13:18	0.0	13:48	0.0	14:19	0.0					
29-Jun-90	8:30	9:07	0.0	9:37	0.0	10:08	0.0	10:38	0.0	11:08	0.0	11:39	0.0	0.0	0.0	11
		12:09	0.0	12:39	0.0	13:09	0.0	13:40	0.0	14:10	0.0					
2-Jul-90	8:32	9:09	0.0	9:40	0.0	10:10	0.0	10:40	0.0	11:11	0.0	11:41	0.0	0.0	0.0	11
		12:11	0.0	12:41	0.0	13:12	0.0	13:42	0.0	14:12	0.0					
3-Jul-90	8:48	9:26	0.0	9:56	0.0	10:27	0.0	10:57	0.0	11:27	0.0	11:57	0.0	0.0	0.0	11
		12:28	0.0	12:58	0.0	13:28	0.0	13:59	0.0	14:29	0.0					
5-Jul-90	8:40	9:17	0.0	9:47	0.0	10:17	0.0	10:48	0.0	11:18	0.0	11:48	0.0	0.0	0.0	11
		12:18	0.0	12:49	0.0	13:19	0.0	13:49	0.0	14:19	0.0					
6-Jul-90	8:34	9:11	0.0	9:42	0.0	10:12	0.0	10:42	0.0	11:12	0.0	11:43	0.0	0.0	0.0	11
		12:13	0.0	12:43	0.0	13:14	0.0	13:44	0.0	14:14	0.0					

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1,1,1-T subchronic neurotoxicity

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Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - CONTROL (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA													
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.	N
9-Jul-90	8:33	9:11	0.0	9:41	0.0	10:11	0.0	10:42	0.0	11:12	0.0	11:42	0.0	0.0	0.0	11
		12:12	0.0	12:43	0.0	13:13	0.0	13:43	0.0	14:14	0.0					
10-Jul-90	8:52	9:28	0.0	9:58	0.0	10:28	0.0	10:58	0.0	11:28	0.0	11:59	0.0	0.0	0.0	11
		12:29	0.0	12:59	0.0	13:29	0.0	14:00	0.0	14:30	0.0					
11-Jul-90	8:30	9:07	0.0	9:38	0.0	10:08	0.0	10:38	0.0	11:08	0.0	11:39	0.0	0.0	0.0	11
		12:09	0.0	12:39	0.0	13:10	0.0	13:40	0.0	14:10	0.0					
12-Jul-90	8:45	9:22	0.0	9:52	0.0	10:22	0.0	10:52	0.0	11:23	0.0	11:53	0.0	0.0	0.0	11
		12:23	0.0	12:53	0.0	13:23	0.0	13:53	0.0	14:23	0.0					
13-Jul-90	8:37	9:13	0.0	9:44	0.0	10:14	0.0	10:44	0.0	11:14	0.0	11:44	0.0	0.0	0.0	11
		12:14	0.0	12:44	0.0	13:14	0.0	13:45	0.0	14:15	0.0					
16-Jul-90	8:52	9:30	0.0	10:00	0.0	10:30	0.0	11:00	0.0	11:30	0.0	12:00	0.0	0.0	0.0	11
		12:31	0.0	13:01	0.0	13:31	0.0	14:01	0.0	14:31	0.0					
17-Jul-90	8:58	9:36	0.0	10:06	0.0	10:36	0.0	11:06	0.0	11:36	0.0	12:06	0.0	0.0	0.0	11
		12:37	0.0	13:07	0.0	13:37	0.0	14:07	0.0	14:37	0.0					
18-Jul-90	8:20	8:58	0.0	9:28	0.0	9:58	0.0	10:28	0.0	10:58	0.0	11:29	0.0	0.0	0.0	11
		11:59	0.0	12:29	0.0	12:59	0.0	13:29	0.0	13:59	0.0					
19-Jul-90	8:45	9:22	0.0	9:52	0.0	10:23	0.0	10:53	0.0	11:23	0.0	11:53	0.0	0.0	0.0	11
		12:23	0.0	12:53	0.0	13:23	0.0	13:53	0.0	14:24	0.0					
20-Jul-90	8:42	9:19	0.0	9:49	0.0	10:19	0.0	10:49	0.0	11:20	0.0	11:50	0.0	0.0	0.0	11
		12:20	0.0	12:50	0.0	13:20	0.0	13:50	0.0	14:20	0.0					
23-Jul-90	8:36	9:13	0.0	9:43	0.0	10:14	0.0	10:44	0.0	11:14	0.0	11:44	0.0	0.0	0.0	11
		12:14	0.0	12:44	0.0	13:14	0.0	13:45	0.0	14:15	0.0					
24-Jul-90	8:48	9:26	0.0	9:56	0.0	10:26	0.0	10:56	0.0	11:26	0.0	11:57	0.0	0.0	0.0	11
		12:27	0.0	12:57	0.0	13:27	0.0	13:57	0.0	14:27	0.0					
25-Jul-90	8:16	8:54	0.0	9:24	0.0	9:54	0.0	10:24	0.0	10:54	0.0	11:24	0.0	0.0	0.0	11
		11:55	0.0	12:25	0.0	12:55	0.0	13:25	0.0	13:55	0.0					
26-Jul-90	8:44	9:22	0.0	9:52	0.0	10:22	0.0	10:52	0.0	11:22	0.0	11:52	0.0	0.0	0.0	11
		12:22	0.0	12:53	0.0	13:23	0.0	13:53	0.0	14:23	0.0					

SL 030849

1,1,1-T subchronic neurotoxicity

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ANALYTICAL AND NOMINAL CONCENTRATION - CONTROL (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.						
27-Jul-90	8:41	9:19	0.0	9:49	0.0	10:19	0.0	10:49	0.0	11:19	0.0	11:50	0.0	0.0	0.0	11			
30-Jul-90	8:50	12:20	0.0	12:50	0.0	13:20	0.0	13:50	0.0	14:20	0.0								
		9:27	0.0	9:57	0.0	10:27	0.0	10:58	0.0	11:28	0.0	11:58	0.0	0.0	0.0	11			
31-Jul-90	8:25	12:28	0.0	12:58	0.0	13:28	0.0	13:58	0.0	14:28	0.0								
		9:03	0.0	9:33	0.0	10:03	0.0	10:33	0.0	11:03	0.0	11:34	0.0	0.0	0.0	11			
1-Aug-90	8:25	12:04	0.0	12:34	0.0	13:04	0.0	13:34	0.0	14:04	0.0								
		9:03	0.0	9:33	0.0	10:03	0.0	10:33	0.0	11:04	0.0	11:34	0.0	0.0	0.0	11			
2-Aug-90	8:29	12:04	0.0	12:34	0.0	13:04	0.0	13:34	0.0	14:04	0.0								
		9:07	0.0	9:37	0.0	10:07	0.0	10:37	0.0	11:07	0.0	11:37	0.0	0.0	0.0	11			
3-Aug-90	8:26	12:07	0.0	12:38	0.0	13:08	0.0	13:38	0.0	14:08	0.0								
		9:03	0.0	9:33	0.0	10:04	0.0	10:34	0.0	11:04	0.0	11:34	0.0	0.0	0.0	11			
6-Aug-90	7:28	12:04	0.0	12:34	0.0	13:04	0.0	13:35	0.0	14:05	0.0								
		8:06	0.0	8:36	0.0	9:06	0.0	9:37	0.0	10:07	0.0	10:37	0.0	0.0	0.0	11			
7-Aug-90	7:40	11:07	0.0	11:37	0.0	12:07	0.0	12:37	0.0	13:07	0.0								
		8:18	0.0	8:48	0.0	9:18	0.0	9:48	0.0	10:19	0.0	10:49	0.0	0.0	0.0	11			
8-Aug-90	8:04	11:19	0.0	11:49	0.0	12:19	0.0	12:49	0.0	13:19	0.0								
		8:41	0.0	9:12	0.0	9:42	0.0	10:12	0.0	10:42	0.0	11:12	0.0	0.0	0.0	11			
9-Aug-90	7:35	11:42	0.0	12:12	0.0	12:43	0.0	13:13	0.0	13:43	0.0								
		8:13	0.0	8:43	0.0	9:13	0.0	9:43	0.0	10:13	0.0	10:43	0.0	0.0	0.0	11			
10-Aug-90	7:56	11:14	0.0	11:44	0.0	12:14	0.0	12:44	0.0	13:14	0.0								
		8:33	0.0	9:03	0.0	9:34	0.0	10:04	0.0	10:34	0.0	11:04	0.0	0.0	0.0	11			
13-Aug-90	7:59	11:34	0.0	12:04	0.0	12:34	0.0	13:05	0.0	13:35	0.0								
		8:36	0.0	9:06	0.0	9:36	0.0	10:07	0.0	10:37	0.0	11:07	0.0	0.0	0.0	11			
14-Aug-90	7:46	11:37	0.0	12:07	0.0	12:37	0.0	13:07	0.0	13:38	0.0								
		8:24	0.0	8:54	0.0	9:24	0.0	9:54	0.0	10:24	0.0	10:54	0.0	0.0	0.0	11			
15-Aug-90	8:21	11:25	0.0	11:55	0.0	12:25	0.0	12:55	0.0	13:25	0.0								
		8:58	0.0	9:28	0.0	9:59	0.0	10:29	0.0	10:59	0.0	11:29	0.0	0.0	0.0	11			
		11:59	0.0	12:29	0.0	12:59	0.0	13:30	0.0	14:00	0.0								

1,1,1-T subchronic neurotoxicity

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ANALYTICAL AND NOMINAL CONCENTRATION - CONTROL (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.						
16-Aug-90	7:36	8:13	0.0	8:43	0.0	9:13	0.0	9:43	0.0	10:14	0.0	10:44	0.0	0.0	0.0	11			
17-Aug-90	7:34	11:14	0.0	11:44	0.0	12:14	0.0	12:44	0.0	13:14	0.0	10:42	0.0	0.0	0.0	11			
		8:11	0.0	8:41	0.0	9:11	0.0	9:41	0.0	10:12	0.0								
20-Aug-90	8:22	11:12	0.0	11:42	0.0	12:12	0.0	12:42	0.0	13:12	0.0	11:31	0.0	0.0	0.0	11			
		9:00	0.0	9:30	0.0	10:00	0.0	10:30	0.0	11:01	0.0								
21-Aug-90	8:00	12:01	0.0	12:31	0.0	13:01	0.0	13:31	0.0	14:01	0.0	11:08	0.0	0.0	0.0	11			
		8:37	0.0	9:07	0.0	9:38	0.0	10:08	0.0	10:38	0.0								
22-Aug-90	8:30	11:38	0.0	12:08	0.0	12:38	0.0	13:08	0.0	13:39	0.0	11:38	0.0	0.0	0.0	11			
		9:08	0.0	9:38	0.0	10:08	0.0	10:38	0.0	11:08	0.0								
23-Aug-90	8:15	12:09	0.0	12:39	0.0	13:09	0.0	13:39	0.0	14:09	0.0	11:23	0.0	0.0	0.0	11			
		8:52	0.0	9:22	0.0	9:52	0.0	10:23	0.0	10:53	0.0								
24-Aug-90	8:14	11:53	0.0	12:23	0.0	12:53	0.0	13:23	0.0	13:53	0.0	11:22	0.0	0.0	0.0	11			
		8:51	0.0	9:21	0.0	9:52	0.0	10:22	0.0	10:52	0.0								
27-Aug-90	8:24	11:52	0.0	12:22	0.0	12:52	0.0	13:23	0.0	13:53	0.0	11:32	0.0	0.0	0.0	11			
		9:02	0.0	9:32	0.0	10:02	0.0	10:32	0.0	11:02	0.0								
28-Aug-90	8:38	12:02	0.0	12:32	0.0	13:03	0.0	13:33	0.0	14:03	0.0	11:46	0.0	0.0	0.0	11			
		9:15	0.0	9:45	0.0	10:15	0.0	10:45	0.0	11:16	0.0								
29-Aug-90	8:23	12:16	0.0	12:46	0.0	13:16	0.0	13:46	0.0	14:16	0.0	11:31	0.0	0.0	0.0	11			
		9:01	0.0	9:31	0.0	10:01	0.0	10:31	0.0	11:01	0.0								
30-Aug-90	8:23	12:02	0.0	12:32	0.0	13:02	0.0	13:32	0.0	14:02	0.0	11:31	0.0	0.0	0.0	11			
		9:00	0.0	9:30	0.0	10:00	0.0	10:30	0.0	11:01	0.0								
31-Aug-90	8:19	12:01	0.0	12:31	0.0	13:01	0.0	13:31	0.0	14:01	0.0	11:27	0.0	0.0	0.0	11			
		8:57	0.0	9:27	0.0	9:57	0.0	10:27	0.0	10:57	0.0								
		11:58	0.0	12:28	0.0	12:58	0.0	13:28	0.0	13:58	0.0								

N= 68
MEAN T.W.A. 0.0
S.D. 0
RANGE 0 0

SL 030851

1,1,1-T subchronic neurotoxicity

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ANALYTICAL AND NOMINAL CONCENTRATION - LOW DOSE

DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.					
29-May-90	8:43	9:29	217.3	9:59	212.7	10:29	215.8	10:59	209.7	11:30	209.0	12:00	211.1	210.7	3.3	11	226.8			
		12:30	208.8	13:00	209.7	13:31	207.5	14:01	208.1	14:31	207.8									
30-May-90	7:44	9:29	219.1	10:00	217.9	10:30	209.4	11:00	205.3	11:30	204.6	12:01	202.9	205.5	7.2	11	218.1			
		12:31	201.8	13:01	202.9	13:32	200.0	14:02	197.8	14:32	198.7									
31-May-90	9:05	9:51	209.5	10:21	208.1	10:51	207.9	11:21	209.1	11:52	208.2	12:22	205.2	205.7	3.0	11	220.1			
		12:52	205.2	13:22	202.8	13:53	204.1	14:23	201.7	14:53	201.2									
1-Jun-90	8:43	9:28	211.5	9:58	210.1	10:29	209.6	10:59	210.2	11:29	210.8	11:59	208.1	207.8	2.9	11	222.8			
		12:30	205.9	13:00	202.7	13:30	206.6	14:00	205.1	14:31	204.9									
4-Jun-90	9:00	9:48	211.7	10:18	210.5	10:48	210.6	11:18	212.5	11:49	210.5	12:19	210.3	209.0	3.0	11	224.4			
		12:49	210.3	13:20	208.5	13:50	204.5	14:20	204.1	14:51	205.1									
5-Jun-90	8:57	9:42	216.7	10:12	216.1	10:43	210.3	11:13	208.2	11:43	208.6	12:13	207.8	190.1	63.2	11	231.7			
		12:44	206.7	13:14	206.6	13:44	205.4	14:14	204.7	0:00	0.0									
6-Jun-90	9:00	9:44	197.9	10:14	198.1	10:44	198.3	11:15	200.4	11:45	202.7	12:15	198.6	199.7	1.6	11	222.5			
		12:45	200.7	13:16	201.0	13:46	200.0	14:16	198.5	14:47	200.7									
7-Jun-90	8:47	9:34	206.2	10:05	209.5	10:35	209.2	11:05	207.5	11:36	206.0	12:06	206.4	205.8	3.6	11	224.4			
		12:36	207.1	13:06	206.6	13:37	206.1	14:07	196.2	14:37	203.5									
8-Jun-90	8:43	9:29	213.0	9:59	214.4	10:29	212.2	10:59	211.8	11:30	211.1	12:00	212.3	212.2	1.9	11	225.0			
		12:30	213.3	13:00	211.8	13:31	212.2	14:01	214.9	14:31	207.5									
11-Jun-90	8:45	9:31	195.6	10:02	192.9	10:33	192.5	11:04	192.9	11:35	193.4	12:06	192.1	190.9	3.0	11	205.6			
		12:37	191.2	13:08	188.5	13:39	187.8	14:10	186.7	14:41	186.8									
12-Jun-91	8:36	9:21	208.7	9:51	207.4	10:22	208.6	10:52	204.6	11:22	207.9	11:53	207.6	206.4	1.9	11	218.6			
		12:23	206.6	12:53	204.5	13:23	206.1	13:54	203.3	14:24	204.8									
13-Jun-90	8:46	9:31	215.6	10:02	213.5	10:32	210.1	11:02	199.2	11:32	212.1	12:03	210.3	209.6	4.9	11	222.7			
		12:33	212.1	13:03	212.1	13:33	210.4	14:04	208.5	14:34	201.8									
14-Jun-90	8:46	9:31	210.9	10:01	207.8	10:32	207.3	11:02	206.4	11:32	206.4	12:03	207.2	206.2	2.3	11	224.7			
		12:33	204.9	13:03	204.6	13:33	203.7	14:04	202.6	14:34	206.1									
15-Jun-90	8:48	9:33	210.0	10:03	208.9	10:33	206.7	11:03	207.4	11:34	204.8	12:04	204.9	206.4	2.0	11	225.8			
		12:34	208.2	13:04	204.2	13:35	205.1	14:05	205.1	14:35	205.2									

SL 030852

Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - LOW DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA														
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.	N	NOMINAL
18-Jun-90	8:43	9:28	205.2	9:58	204.6	10:29	203.3	10:59	205.6	11:29	203.2	11:59	202.6	202.3	2.6	11	218.3
19-Jun-90	8:37	12:30	202.2	13:00	199.7	13:30	198.8	14:01	201.7	14:31	197.9						
		9:22	212.7	9:53	213.1	10:23	207.2	10:53	209.4	11:24	208.9	11:54	210.3	208.5	3.3	11	223.1
20-Jun-90	8:36	12:24	208.3	12:54	210.5	13:24	207.6	13:55	202.5	14:25	203.4						
		9:21	211.7	9:51	208.6	10:21	210.3	10:52	210.6	11:22	212.1	11:52	209.7	209.3	1.8	11	227.1
21-Jun-90	8:37	12:23	207.5	12:53	207.7	13:23	208.3	13:53	209.9	14:24	206.3						
		9:22	213.0	9:53	209.3	10:23	208.7	10:53	210.7	11:23	209.5	11:54	208.7	209.0	2.1	11	227.9
22-Jun-90	8:38	12:24	208.1	12:54	204.2	13:25	208.8	13:55	209.3	14:25	208.5						
		9:24	211.0	9:54	208.9	10:24	206.6	10:54	209.9	11:24	208.6	11:55	205.8	207.4	2.1	11	225.6
25-Jun-90	8:48	12:25	203.8	12:55	207.1	13:26	208.0	13:56	207.0	14:26	205.1						
		9:33	212.5	10:03	217.0	10:34	213.7	11:04	214.7	11:34	213.3	12:05	211.5	212.6	2.0	11	227.0
26-Jun-90	8:23	12:35	211.8	13:05	211.7	13:35	210.2	14:06	211.8	14:36	210.5						
		9:08	208.5	9:38	208.6	10:08	208.5	10:39	208.0	11:09	207.0	11:39	208.4	207.1	1.8	11	224.7
27-Jun-90	8:30	12:09	206.9	12:40	206.9	13:10	207.3	13:40	205.3	14:10	202.6						
		9:20	215.5	9:50	215.9	10:21	215.3	10:51	213.7	11:21	211.2	11:51	N.D.	212.4	2.7	10	224.1
28-Jun-90	8:38	12:22	211.9	12:52	208.2	13:22	212.2	13:52	209.1	14:23	210.5						
		9:24	215.4	9:54	213.1	10:24	210.7	10:54	210.0	11:25	210.8	11:55	210.1	210.7	2.0	11	223.3
29-Jun-90	8:30	12:25	209.9	12:55	209.8	13:26	209.3	13:56	209.9	14:26	208.2						
		9:15	216.1	9:45	213.2	10:15	213.9	10:46	214.8	11:16	211.2	11:46	N.D.	212.8	2.3	7	226.8
2-Jul-90	8:32	12:16	N.D.	12:47	N.D.	13:17	210.6	13:47	210.0	14:17	N.D.						
		9:17	214.0	9:47	212.5	10:17	213.0	10:48	212.9	11:18	210.1	11:48	N.D.	210.7	2.4	10	223.1
3-Jul-90	8:48	12:19	208.7	12:49	210.9	13:19	209.7	13:49	207.4	14:20	207.4						
		9:34	214.3	10:04	212.6	10:34	211.5	11:04	213.6	11:35	N.D.	12:05	208.3	211.5	2.2	7	220.8
5-Jul-90	8:40	12:35	210.3	13:06	N.D.	13:36	N.D.	14:06	N.D.	14:36	209.7						
		9:24	214.7	9:55	213.5	10:25	214.1	10:55	212.7	11:25	212.0	11:56	213.7	212.2	1.9	11	226.1
6-Jul-90	8:34	12:26	213.2	12:56	210.7	13:26	210.3	13:57	210.3	14:27	208.7						
		9:19	215.2	9:49	215.0	10:19	214.7	10:50	212.0	11:20	213.8	11:50	211.7	212.3	2.2	11	230.0
		12:21	213.2	12:51	210.2	13:21	210.0	13:51	210.4	14:22	209.3						

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Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - LOW DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA											MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.				
9-Jul-90	8:33	9:18	217.1	9:49	214.8	10:19	213.8	10:49	214.5	11:19	213.7	11:50	211.9	212.4	2.7	11	223.7
		12:20	212.8	12:50	210.6	13:21	210.0	13:51	209.3	14:21	208.2						
10-Jul-90	8:52	9:35	207.3	10:05	206.9	10:36	206.5	11:06	208.2	11:36	206.8	12:06	204.5	206.2	1.4	8	223.6
		12:36	205.4	13:07	N.D.	13:37	N.D.	14:07	N.D.	14:38	204.1						
11-Jul-90	8:30	9:15	208.8	9:45	208.7	10:15	208.6	10:46	205.5	11:16	205.0	11:46	205.3	205.5	2.2	11	222.2
		12:16	204.3	12:47	204.5	13:17	203.8	13:47	202.2	14:18	204.1						
12-Jul-90	8:45	9:30	212.0	10:00	210.1	10:30	208.8	11:00	208.1	11:30	209.1	12:00	208.8	207.8	2.2	11	224.7
		12:30	206.3	13:00	206.6	13:31	206.0	14:01	206.0	14:31	204.6						
13-Jul-90	8:37	9:21	216.3	9:51	213.2	10:21	211.9	10:51	211.0	11:21	210.6	11:52	210.9	210.7	2.5	11	228.2
		12:22	210.4	12:52	208.7	13:22	209.5	13:52	208.7	14:22	206.8						
16-Jul-90	8:52	9:37	208.9	10:07	207.7	10:38	209.2	11:08	208.1	11:38	204.6	12:08	202.7	205.5	2.5	11	232.8
		12:38	203.4	13:08	205.7	13:38	204.2	14:08	203.1	14:39	203.1						
17-Jul-90	8:58	9:43	212.1	10:13	212.7	10:43	211.9	11:14	211.9	11:44	211.9	12:14	211.2	210.6	1.6	11	225.5
		12:44	209.1	13:14	209.7	13:44	209.3	14:14	209.5	14:45	207.8						
18-Jul-90	8:20	9:05	214.4	9:35	214.1	10:06	211.9	10:36	212.3	11:06	211.9	11:36	211.0	211.3	2.1	11	223.5
		12:06	211.2	12:36	211.9	13:06	208.3	13:37	209.7	14:07	207.7						
19-Jul-90	8:45	9:30	214.2	10:00	214.1	10:30	211.6	11:00	214.6	11:30	212.8	12:00	212.5	212.3	2.2	11	223.5
		12:31	212.2	13:01	214.2	13:31	211.0	14:01	211.1	14:31	207.1						
20-Jul-90	8:42	9:27	209.5	9:57	211.1	10:27	207.6	10:57	206.9	11:27	207.3	11:57	207.1	207.3	1.7	11	224.0
		12:27	206.6	12:57	206.9	13:28	207.0	13:58	205.4	14:28	205.2						
23-Jul-90	8:36	9:21	214.0	9:51	211.9	10:21	210.0	10:51	210.0	11:21	211.9	11:52	210.3	210.7	1.5	11	223.2
		12:22	211.2	12:52	209.3	13:22	209.4	13:52	209.6	14:22	209.6						
24-Jul-90	8:48	9:33	216.0	10:03	214.1	10:34	211.2	11:04	212.8	11:34	213.7	12:04	212.1	211.9	2.1	11	227.5
		12:34	211.3	13:04	210.7	13:34	211.2	14:05	209.1	14:35	208.8						
25-Jul-90	8:16	9:01	209.0	9:31	210.0	10:02	209.4	10:32	207.4	11:02	208.9	11:32	208.2	208.3	1.0	11	226.0
		12:02	208.5	12:32	208.6	13:02	206.7	13:33	207.9	14:03	207.0						
26-Jul-90	8:44	9:29	209.2	9:59	209.7	10:29	209.5	11:00	210.0	11:30	209.0	12:00	209.4	208.4	1.3	11	222.7
		12:30	207.7	13:00	207.4	13:30	207.3	14:00	207.3	14:30	206.0						

Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - LOW DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA														N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.			
27-Jul-90	8:41	9:26	208.9	9:56	208.4	10:27	206.9	10:57	208.0	11:27	206.9	11:57	208.6	207.4	0.9	11	227.8	
		12:27	206.8	12:57	207.3	13:27	207.0	13:58	205.8	14:28	206.6							
30-Jul-90	8:50	9:35	201.1	10:05	202.9	10:35	202.1	11:05	200.9	11:35	199.7	12:05	202.7	200.4	1.7	11	219.4	
		12:35	200.1	13:06	198.5	13:36	199.1	14:06	198.4	14:36	198.4							
31-Jul-90	8:25	9:10	N.D.	9:41	N.D.	10:11	213.5	10:41	212.8	11:11	211.3	11:41	213.4	212.5	1.0	9	227.7	
		12:11	213.7	12:41	211.3	13:11	211.4	13:42	212.4	14:12	213.0							
1-Aug-90	8:25	9:10	212.7	9:41	213.7	10:11	N.D.	10:41	211.5	11:11	210.5	11:41	209.9	211.5	1.5	8	225.4	
		12:11	211.7	12:41	N.D.	13:12	212.4	13:42	209.4	14:12	N.D.							
2-Aug-90	8:29	9:14	216.3	9:44	214.5	10:14	217.6	10:44	212.6	11:15	214.8	11:45	218.8	214.7	2.5	11	223.2	
		12:15	216.8	12:45	211.8	13:15	214.5	13:45	211.0	14:15	213.2							
3-Aug-90	8:26	9:11	211.3	9:41	214.7	10:11	210.5	10:41	211.1	11:11	214.6	11:42	215.1	212.4	2.0	11	225.0	
		12:12	212.9	12:42	214.5	13:12	209.7	13:42	210.5	14:12	211.4							
6-Aug-90	7:28	8:14	216.2	8:44	214.9	9:14	213.7	9:44	212.0	10:14	210.6	10:44	213.1	213.1	1.7	11	222.3	
		11:14	213.5	11:45	213.9	12:15	212.6	12:45	213.6	13:15	210.3							
7-Aug-90	7:40	8:25	212.5	8:55	212.1	9:26	209.0	9:56	212.1	10:26	210.5	10:56	209.9	210.3	1.4	11	226.2	
		11:26	209.6	11:56	209.5	12:27	209.4	12:57	208.5	13:27	210.2							
8-Aug-90	8:04	8:49	225.8	9:19	225.4	9:49	221.4	10:19	219.9	10:50	222.5	11:20	220.9	219.9	4.4	11	232.8	
		11:50	222.4	12:20	218.8	12:50	214.3	13:20	213.8	13:50	213.4							
9-Aug-90	7:35	8:20	212.4	8:50	217.4	9:21	216.2	9:51	214.1	10:21	211.3	10:51	212.8	211.7	3.3	11	221.4	
		11:21	209.7	11:51	209.8	12:21	207.2	12:51	210.4	13:22	207.0							
10-Aug-90	7:56	8:41	N.D.	9:11	212.2	9:41	217.2	10:11	215.8	10:41	211.1	11:12	211.3	211.9	2.9	10	225.1	
		11:42	213.0	12:12	212.0	12:42	208.6	13:12	208.7	13:42	209.1							
13-Aug-90	7:59	8:44	211.4	9:14	211.3	9:44	203.9	10:14	207.6	10:44	209.1	11:14	209.7	208.3	2.1	11	223.5	
		11:44	207.3	12:15	207.1	12:45	208.4	13:15	207.3	13:45	208.4							
14-Aug-90	7:46	8:31	212.0	9:02	211.2	9:32	209.0	10:02	209.2	10:32	206.7	11:02	207.6	208.3	2.0	11	223.2	
		11:32	209.1	12:02	207.7	12:32	205.9	13:03	206.0	13:33	207.0							
15-Aug-90	8:21	9:06	213.8	9:36	215.9	10:06	213.8	10:36	213.0	11:06	212.1	11:36	210.0	211.9	2.3	11	225.1	
		12:07	208.4	12:37	210.1	13:07	213.5	13:37	209.4	14:07	210.6							

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ANALYTICAL AND NOMINAL CONCENTRATION - LOW DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.					
16-Aug-90	7:36	8:21	215.0	8:51	213.0	9:21	212.9	9:51	210.8	10:21	213.0	10:51	213.8	210.2	3.8	11	224.4			
		11:21	209.3	11:51	204.7	12:22	207.0	12:52	208.6	13:22	203.6									
17-Aug-90	7:34	8:19	217.0	8:49	212.6	9:19	218.0	9:49	214.5	10:19	213.4	10:49	213.7	213.8	2.6	11	230.2			
		11:19	215.7	11:50	209.7	12:20	213.2	12:50	209.9	13:20	213.5									
20-Aug-90	8:22	9:08	216.6	9:38	214.2	10:08	212.3	10:38	213.0	11:08	213.8	11:38	215.3	213.6	1.7	11	226.5			
		12:08	214.2	12:39	214.3	13:09	214.0	13:39	211.7	14:09	210.6									
21-Aug-90	8:00	8:45	211.1	9:15	214.2	9:45	209.8	10:15	211.9	10:45	210.8	11:15	209.2	209.9	2.1	11	226.7			
		11:46	207.6	12:16	208.7	12:46	207.5	13:16	210.7	13:46	207.2									
22-Aug-90	8:30	9:15	211.3	9:45	210.8	10:16	211.3	10:46	209.8	11:16	210.7	11:46	207.9	209.2	1.9	11	225.2			
		12:16	208.2	12:46	206.3	13:16	207.9	13:46	206.3	14:17	210.3									
23-Aug-90	8:15	9:00	218.0	9:30	210.8	10:00	N.D.	10:30	255.2	11:00	213.1	11:30	211.8	218.2	13.2	10	225.9			
		12:00	216.7	12:31	213.9	13:01	214.6	13:31	215.6	14:01	212.6									
24-Aug-90	8:14	8:59	217.1	9:29	220.4	9:59	215.7	10:29	217.7	10:59	214.0	11:30	211.3	214.6	3.4	11	225.0			
		12:00	213.6	12:30	215.5	13:00	215.0	13:30	211.6	14:00	208.3									
27-Aug-90	8:24	9:09	203.0	9:39	201.4	10:09	207.3	10:39	199.8	11:10	201.2	11:40	N.D.	202.4	2.5	10	210.7			
		12:10	205.5	12:40	201.8	13:10	200.0	13:40	203.8	14:10	200.4									
28-Aug-90	8:38	9:23	212.4	9:53	213.5	10:23	208.0	10:53	212.3	11:23	214.4	11:53	210.7	209.7	4.0	11	220.3			
		12:23	209.1	12:54	210.0	13:24	210.5	13:54	202.7	14:24	202.5									
29-Aug-90	8:23	9:08	213.0	9:38	209.8	10:09	209.1	10:39	210.9	11:09	210.7	11:39	210.7	210.1	1.5	11	231.7			
		12:09	209.2	12:39	210.8	13:10	209.3	13:40	210.5	14:10	206.9									
30-Aug-90	8:23	9:07	214.2	9:38	214.5	10:08	213.3	10:38	212.8	11:08	212.1	11:38	211.8	212.2	1.7	11	233.1			
		12:08	212.3	12:39	212.8	13:09	210.5	13:39	211.6	14:09	208.6									
31-Aug-90	8:19	9:04	206.4	9:34	203.6	10:04	206.8	10:35	202.8	11:05	204.0	11:35	202.4	202.7	2.4	11	222.0			
		12:05	199.5	12:35	203.2	13:05	201.2	13:35	200.1	14:06	200.0									
														N=	68					
														MEAN T.W.A.	209.0	224.4				
														S.D.	4.893	4.363				
														RANGE	190.1	220	205.6			

Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - MIDDLE DOSE

DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.							
29-May-90	8:43	9:36	634.8	10:06	633.9	10:37	637.2	11:07	633.4	11:37	630.6	12:07	632.0	627.3	7.5	11	651.1			
		12:38	621.7	13:08	620.3	13:38	619.4	14:09	618.2	14:39	618.9									
30-May-90	7:44	9:37	641.3	10:07	638.7	10:37	637.6	11:08	633.5	11:38	632.0	12:08	632.2	632.8	5.3	11	653.3			
		12:38	630.6	13:09	635.4	13:39	628.7	14:09	624.6	14:39	625.8									
31-May-90	9:05	9:58	652.3	10:28	638.5	10:59	629.8	11:29	631.4	11:59	629.1	12:30	624.2	629.0	9.4	11	652.2			
		13:00	621.9	13:30	626.9	14:00	622.9	14:31	620.5	15:01	621.6									
1-Jun-90	8:43	9:36	638.2	10:06	635.2	10:36	625.0	11:06	625.9	11:37	620.9	12:07	615.9	620.0	9.9	11	648.2			
		12:37	612.3	13:07	610.5	13:38	611.6	14:08	613.4	14:38	610.8									
4-Jun-90	9:00	9:55	611.2	10:25	610.0	10:56	625.3	11:26	630.7	11:56	628.8	12:26	627.3	620.6	13.8	11	648.8			
		12:57	620.5	13:27	620.2	13:57	604.6	14:28	599.8	14:58	648.5									
5-Jun-90	8:57	9:50	674.9	10:20	646.6	10:50	639.5	11:20	641.4	11:51	640.3	12:21	639.4	576.1	201.0	10	601.2			
		12:51	635.2	13:21	634.5	13:52	6.3	14:22	602.6											
6-Jun-90	9:00	9:51	640.7	10:22	640.8	10:52	642.8	11:22	641.4	11:52	638.1	12:23	638.5	637.1	4.8	10	668.0			
		12:53	634.4	13:23	635.2	13:54	630.0	14:24	629.2											
7-Jun-90	8:47	9:42	647.7	10:12	646.0	10:42	644.8	11:13	645.5	11:43	641.2	12:13	639.3	587.7	175.2	11	635.2			
		12:44	637.6	13:14	636.7	13:44	633.9	14:14	633.3	14:45	59.6									
8-Jun-90	8:43	9:36	643.6	10:06	647.5	10:37	645.8	11:07	642.7	11:37	643.5	12:07	639.9	640.5	4.8	11	669.0			
		12:38	637.2	13:08	637.9	13:38	634.6	14:08	640.3	14:39	632.0									
11-Jun-90	8:45	9:39	650.3	10:10	646.5	10:41	644.9	11:12	642.1	11:43	645.0	12:14	642.9	638.9	15.0	11	667.7			
		12:45	643.2	13:16	639.0	13:47	641.2	14:18	637.6	14:49	594.7									
12-Jun-91	8:36	9:29	633.3	9:59	638.8	10:29	631.6	10:59	629.6	11:30	634.9	12:00	630.4	628.0	6.4	11	662.6			
		12:30	623.2	13:01	624.0	13:31	620.6	14:01	621.0	14:31	621.2									
13-Jun-90	8:46	9:39	649.9	10:09	642.9	10:39	N.D.	11:10	284.7	11:40	638.2	12:10	632.5	544.2	198.3	10	634.8			
		12:40	635.7	13:11	635.5	13:41	631.0	14:11	615.8	14:41	75.6									
14-Jun-90	8:46	9:39	622.6	10:09	622.0	10:39	624.3	11:10	620.9	11:40	621.4	12:10	619.4	618.8	3.8	11	671.3			
		12:40	618.2	13:11	616.4	13:41	612.4	14:11	615.1	14:41	614.4									
15-Jun-90	8:48	9:40	632.4	10:10	627.4	10:41	625.4	11:11	624.5	11:41	619.2	12:11	620.9	622.8	4.3	11	668.8			
		12:42	621.5	13:12	618.9	13:42	621.3	14:13	618.7	14:43	620.3									

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ANALYTICAL AND NOMINAL CONCENTRATION - MIDDLE DOSE (CONT.)

EXPOSURE			INDIVIDUAL DATA															
DATE	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.	N	NOMINAL	
18-Jun-90	8:43	9:36	629.1	10:06	628.3	10:36	626.0	11:06	628.2	11:37	623.6	12:07	625.4	622.6	5.3	11	657.2	
		12:37	622.1	13:08	618.9	13:38	617.9	14:08	616.1	14:38	613.7							
19-Jun-90	8:37	9:30	641.2	10:00	636.3	10:30	630.8	11:01	629.1	11:31	625.7	12:01	630.6	526.3	232.7	11	592.1	
		12:31	627.2	13:02	625.8	13:32	625.1	14:02	116.8	14:33	0.5							
20-Jun-90	8:36	9:28	628.7	9:59	629.4	10:29	625.7	10:59	623.6	11:30	624.4	12:00	620.6	620.1	6.9	11	669.4	
		12:30	617.8	13:00	616.3	13:31	613.3	14:01	611.4	14:31	609.5							
21-Jun-90	8:37	9:30	636.4	10:00	631.3	10:31	631.1	11:01	626.5	11:31	621.0	12:01	622.2	620.0	10.2	11	668.0	
		12:32	612.5	13:02	611.3	13:32	608.9	14:02	610.1	14:33	608.7							
22-Jun-90	8:38	9:31	622.4	10:01	617.9	10:31	620.9	11:02	622.5	11:32	617.1	12:02	614.1	616.2	4.7	11	662.6	
		12:33	610.4	13:03	609.9	13:33	618.8	14:04	613.2	14:34	611.5							
25-Jun-90	8:48	9:41	641.9	10:11	646.0	10:41	640.2	11:12	636.1	11:42	633.7	12:12	629.7	629.1	11.2	11	663.2	
		12:42	622.5	13:13	619.9	13:43	618.7	14:13	616.3	14:43	614.9							
26-Jun-90	8:23	9:15	635.6	9:46	633.9	10:16	628.6	10:46	628.9	11:16	629.6	11:47	627.5	625.6	6.6	11	664.0	
		12:17	622.4	12:47	623.3	13:18	617.0	13:48	617.1	14:18	617.2							
27-Jun-90	8:30	9:28	646.0	9:58	644.7	10:28	641.0	10:58	628.5	11:29	627.7	11:59	N.D.	629.8	10.3	10	661.3	
		12:29	625.8	12:59	622.0	13:30	620.8	14:00	622.1	14:30	619.0							
28-Jun-90	8:38	9:31	635.5	10:01	628.5	10:32	626.3	11:02	626.5	11:32	626.5	12:02	625.9	623.4	6.3	11	659.8	
		12:33	619.7	13:03	619.5	13:33	618.5	14:04	617.0	14:34	613.7							
29-Jun-90	8:30	9:22	636.7	9:53	632.0	10:23	630.0	10:53	631.6	11:23	626.4	11:54	N.D.	628.3	6.1	7	659.8	
		12:24	N.D.	12:54	N.D.	13:24	619.4	13:55	621.6	14:25	N.D.							
2-Jul-90	8:32	9:24	638.9	9:55	631.9	10:25	628.1	10:55	628.5	11:26	630.2	11:56	N.D.	619.2	13.6	10	657.0	
		12:26	612.5	12:56	610.8	13:27	605.7	13:57	604.2	14:27	601.6							
3-Jul-90	8:48	9:41	629.9	10:11	625.4	10:42	621.2	11:12	619.3	11:42	N.D.	12:13	613.4	618.3	8.2	7	649.2	
		12:43	613.7	13:13	N.D.	13:43	N.D.	14:14	N.D.	14:44	605.4							
5-Jul-90	8:40	9:32	633.5	10:02	629.8	10:32	627.4	11:03	620.5	11:33	620.0	12:03	618.1	618.0	10.4	11	654.3	
		12:33	618.9	13:04	614.7	13:34	610.4	14:04	606.2	14:35	598.3							
6-Jul-90	8:34	9:26	621.0	9:57	619.3	10:27	617.2	10:57	611.0	11:28	609.4	11:58	608.6	610.0	6.5	11	659.6	
		12:28	606.6	12:58	606.6	13:29	604.8	13:59	601.6	14:29	604.1							

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ANALYTICAL AND NOMINAL CONCENTRATION - MIDDLE DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.					
9-Jul-90	8:33	9:26	627.1	9:56	624.9	10:26	625.2	10:57	624.0	11:27	620.3	11:57	618.1	617.7	7.3	11	659.0			
		12:28	614.2	12:58	615.1	13:28	612.0	13:58	608.1	14:29	605.9									
10-Jul-90	8:52	9:43	630.7	10:13	629.6	10:43	625.1	11:13	626.8	11:43	622.5	12:14	619.2	621.6	9.1	8	667.4			
		12:44	616.3	13:14	N.D.	13:45	N.D.	14:15	N.D.	14:45	602.5									
11-Jul-90	8:30	9:23	632.3	9:53	632.3	10:23	630.9	10:53	622.9	11:23	614.8	11:54	616.6	617.2	10.7	11	664.3			
		12:24	612.2	12:54	608.3	13:25	606.7	13:55	607.8	14:25	604.3									
12-Jul-90	8:45	9:37	624.8	10:07	621.6	10:37	616.2	11:07	614.7	11:38	614.1	12:08	613.2	611.8	7.7	11	665.1			
		12:38	611.1	13:08	605.7	13:38	604.3	14:08	601.8	14:38	602.1									
13-Jul-90	8:37	9:28	640.3	9:59	636.4	10:29	629.9	10:59	628.7	11:29	625.3	11:59	620.5	622.4	10.8	11	666.5			
		12:29	619.3	12:59	616.8	13:29	612.1	14:00	611.0	14:30	605.8									
16-Jul-90	8:52	9:45	635.5	10:15	626.0	10:45	632.0	11:15	627.0	11:45	622.8	12:15	621.8	621.7	8.2	11	699.0			
		12:46	619.7	13:16	619.1	13:46	613.9	14:16	610.5	14:46	610.2									
17-Jul-90	8:58	9:51	638.0	10:21	638.3	10:51	637.8	11:21	636.5	11:51	635.9	12:21	633.8	630.5	8.1	11	665.6			
		12:52	629.4	13:22	626.9	13:52	623.4	14:22	619.1	14:52	615.9									
18-Jul-90	8:20	9:13	650.1	9:43	645.5	10:13	640.6	10:43	642.1	11:13	640.0	11:44	637.6	636.7	8.6	11	665.5			
		12:14	636.4	12:44	633.7	13:14	631.9	13:44	626.1	14:14	620.1									
19-Jul-90	8:45	9:37	642.3	10:07	645.7	10:38	641.8	11:08	638.0	11:38	637.0	12:08	635.2	634.5	7.9	11	661.9			
		12:38	631.9	13:08	635.6	13:38	628.0	14:09	623.6	14:39	620.1									
20-Jul-90	8:42	9:34	641.2	10:04	640.1	10:34	634.2	11:04	636.1	11:35	633.9	12:05	629.6	629.1	8.8	11	655.8			
		12:35	625.1	13:05	625.7	13:35	619.0	14:05	620.7	14:35	615.0									
23-Jul-90	8:36	9:28	643.8	9:58	640.9	10:29	633.3	10:59	630.1	11:29	634.4	11:59	636.1	635.0	4.3	11	666.6			
		12:29	634.7	12:59	633.6	13:29	634.2	14:00	634.7	14:30	628.9									
24-Jul-90	8:48	9:41	653.9	10:11	650.4	10:41	645.3	11:11	644.4	11:41	641.6	12:12	634.1	635.6	12.0	11	659.7			
		12:42	630.0	13:12	626.8	13:42	624.3	14:12	621.7	14:42	619.5									
25-Jul-90	8:16	9:09	642.5	9:39	644.6	10:09	641.7	10:39	636.3	11:09	630.7	11:40	626.6	629.0	10.8	11	661.2			
		12:10	621.2	12:40	621.4	13:10	620.3	13:40	620.7	14:10	613.1									
26-Jul-90	8:44	9:37	642.2	10:07	635.1	10:37	632.6	11:07	633.5	11:37	628.0	12:07	626.6	627.2	8.3	11	652.7			
		12:37	627.3	13:08	623.2	13:38	617.2	14:08	618.7	14:38	615.1									

SL 030859

1,1,1-T subchronic neurotoxicity

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DATE	EXPOSURE		INDIVIDUAL DATA														MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.					
27-Jul-90	8:41	9:34	633.7	10:04	637.4	10:34	632.8	11:04	627.2	11:34	628.8	12:05	626.9	624.4	8.7	11	664.1			
30-Jul-90	8:50	12:35	623.2	13:05	617.9	13:35	615.1	14:05	614.1	14:35	611.6									
		9:42	624.0	10:12	622.6	10:42	624.1	11:13	622.7	11:43	620.9	12:13	618.0	616.2	7.4	11	650.3			
31-Jul-90	8:25	12:43	614.7	13:13	610.9	13:43	610.0	14:13	606.2	14:43	604.0									
		9:18	N.D.	9:48	N.D.	10:18	627.6	10:48	627.8	11:18	629.1	11:49	624.2	620.4	6.8	9	656.0			
1-Aug-90	8:25	12:19	618.8	12:49	615.1	13:19	614.0	13:49	613.7	14:19	613.1									
		9:18	635.0	9:48	634.8	10:18	N.D.	10:48	628.5	11:19	630.2	11:49	623.4	624.7	8.6	8	653.8			
2-Aug-90	8:29	12:19	616.6	12:49	N.D.	13:19	614.5	13:49	614.8	14:19	N.D.									
		9:22	652.5	9:52	650.6	10:22	638.8	10:52	634.3	11:22	641.7	11:52	634.1	631.7	13.6	11	650.7			
3-Aug-90	8:26	12:22	626.0	12:53	624.6	13:23	617.5	13:53	615.4	14:23	613.1									
		9:18	633.1	9:48	632.5	10:19	627.8	10:49	624.8	11:19	623.6	11:49	621.1	618.2	11.3	11	651.1			
6-Aug-90	7:28	12:19	611.2	12:49	613.8	13:19	606.1	13:50	601.2	14:20	605.3									
		8:21	633.5	8:51	633.6	9:21	633.3	9:52	620.6	10:22	626.7	10:52	623.8	621.2	10.0	11	654.9			
7-Aug-90	7:40	11:22	619.3	11:52	617.9	12:22	610.0	12:52	607.6	13:22	607.3									
		8:33	633.5	9:03	638.0	9:33	634.4	10:03	631.8	10:34	623.4	11:04	624.1	623.2	10.3	11	654.7			
8-Aug-90	8:04	11:34	621.1	12:04	618.1	12:34	612.3	13:04	611.8	13:34	607.1									
		8:56	659.5	9:27	661.7	9:57	655.6	10:27	650.0	10:57	644.8	11:27	641.3	635.0	21.4	11	658.6			
9-Aug-90	7:35	11:57	627.9	12:27	621.2	12:58	610.6	13:28	608.2	13:58	604.8									
		8:28	635.8	8:58	648.3	9:28	639.8	9:58	637.9	10:28	632.2	10:58	637.0	629.4	11.8	11	650.9			
10-Aug-90	7:56	11:29	627.7	11:59	623.1	12:29	614.4	12:59	613.7	13:29	613.7									
		8:48	N.D.	9:19	633.0	9:49	631.9	10:19	624.1	11:19	621.1	11:19	619.9	618.2	10.7	10	652.5			
13-Aug-90	7:59	11:49	623.2	12:19	613.4	12:49	605.7	13:20	605.9	13:50	603.4									
		8:51	626.4	9:21	628.6	9:51	625.4	10:22	622.3	10:52	621.6	11:22	617.0	616.8	8.4	11	653.0			
14-Aug-90	7:46	11:52	610.9	12:22	609.5	12:52	609.9	13:22	607.0	13:53	606.4									
		8:39	626.1	9:09	631.9	9:39	626.6	10:09	626.4	10:39	616.3	11:10	619.7	614.9	12.4	11	646.3			
15-Aug-90	8:21	11:40	613.3	12:10	606.8	12:40	600.4	13:10	599.3	13:40	597.7									
		9:13	627.2	9:43	621.3	10:14	618.1	10:44	614.1	11:14	617.9	11:44	608.6	611.2	9.1	11	646.4			
		12:14	606.9	12:44	602.0	13:14	604.6	13:45	603.0	14:15	599.0									

SL 030860

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ANALYTICAL AND NOMINAL CONCENTRATION - MIDDLE DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA															
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.	N	NOMINAL	
16-Aug-90	7:36	8:28	624.1	8:58	626.3	9:28	625.9	9:58	626.4	10:29	620.2	10:59	620.6	615.5	11.5	11	650.6	
		11:29	621.1	11:59	606.0	12:29	602.5	12:59	599.4	13:29	598.3							
17-Aug-90	7:34	8:26	627.4	8:56	621.0	9:26	623.9	9:56	626.6	10:27	622.1	10:57	626.4	618.2	8.8	11	651.3	
		11:27	617.5	11:57	617.7	12:27	611.4	12:57	604.1	13:27	602.3							
20-Aug-90	8:22	9:15	624.8	9:45	634.0	10:15	622.1	10:45	618.2	11:16	612.2	11:46	603.6	607.1	16.1	11	643.4	
		12:16	599.4	12:46	594.8	13:16	592.5	13:46	591.1	14:17	585.4							
21-Aug-90	8:00	8:52	627.7	9:22	625.8	9:53	617.9	10:23	616.5	10:53	614.9	11:23	609.8	610.2	11.5	11	650.6	
		11:53	607.1	12:23	602.1	12:53	596.5	13:24	601.8	13:54	592.5							
22-Aug-90	8:30	9:23	627.9	9:53	623.6	10:23	617.3	10:53	617.9	11:23	609.9	11:53	609.8	612.0	9.1	11	652.0	
		12:24	604.8	12:54	603.7	13:24	596.4	13:54	609.8	14:24	611.4							
23-Aug-90	8:15	9:07	638.3	9:37	631.9	10:07	N.D.	10:38	670.1	11:08	631.1	11:38	629.4	632.9	14.3	10	661.4	
		12:08	633.1	12:38	630.5	13:08	624.0	13:38	622.1	14:09	618.3							
24-Aug-90	8:14	9:06	645.1	9:37	639.0	10:07	641.7	10:37	641.8	11:07	630.8	11:37	630.9	629.8	11.5	11	654.5	
		12:07	629.1	12:37	625.9	13:07	615.9	13:38	615.4	14:08	612.5							
27-Aug-90	8:24	9:17	648.9	9:47	638.5	10:17	638.5	10:47	632.2	11:17	630.0	11:47	N.D.	629.4	10.5	10	653.2	
		12:17	627.8	12:47	622.5	13:18	622.5	13:48	620.5	14:18	612.9							
28-Aug-90	8:38	9:30	657.6	10:00	655.4	10:30	649.7	11:00	648.3	11:31	646.7	12:01	640.9	637.2	16.8	11	664.9	
		12:31	635.6	13:01	628.6	13:31	627.1	14:01	610.1	14:31	609.5							
29-Aug-90	8:23	9:16	647.4	9:46	644.0	10:16	645.3	10:46	637.2	11:16	639.1	11:47	629.8	628.7	15.4	11	664.3	
		12:17	629.9	12:47	616.4	13:17	612.4	13:47	609.5	14:17	605.3							
30-Aug-90	8:23	9:15	648.7	9:45	648.6	10:15	651.2	10:45	641.2	11:16	638.1	11:46	633.1	633.1	14.4	11	666.5	
		12:16	635.4	12:46	625.0	13:16	619.1	13:46	611.5	14:16	612.3							
31-Aug-90	8:19	9:12	640.2	9:42	634.2	10:12	628.6	10:42	619.6	11:12	622.1	11:42	613.6	616.2	13.6	11	649.0	
		12:13	606.5	12:43	602.4	13:13	602.0	13:43	605.4	14:13	603.8							
														N=	68			
														MEAN T.W.A.	620.2	656.3		
														S.D.	18.38	14.06		
														RANGE	526.3 640.5	592.1		

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SL 030862

Appendix B, continued: Chamber Analyses

INDIVIDUAL DATA

DATE	EXPOSURE		DATA														MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.							
29-May-90	8:43	9:44	1892.8	10:14	2111.1	10:44	2076.1	11:14	2087.4	11:45	2090.1	12:15	2091.1	2071.8	63.5	10	2622.5			
30-May-90	7:44	12:45	2095.7	13:16	2093.0	13:46	2090.5	13:46	2090.5											
		9:44	2044.0	10:15	2055.5	10:45	2034.3	11:15	2025.0	11:45	2021.7	12:16	2019.7	2026.6	14.5	10	2597.5			
31-May-90	9:05	12:46	2024.7	13:16	2023.4	13:47	2009.2	13:47	2009.2											
		10:06	1972.2	10:36	2020.6	11:06	2037.5	11:37	2105.1	12:07	2050.4	12:37	2051.2	2044.4	33.0	10	2571.4			
1-Jun-90	8:43	13:07	2052.8	13:37	2052.1	14:08	2050.9	14:08	2050.9											
		9:43	1946.4	10:13	2012.1	10:44	2019.4	11:14	2040.4	11:44	2046.4	12:14	2041.2	2023.8	29.0	10	2554.1			
4-Jun-90	9:00	12:45	2035.4	13:15	2031.8	13:45	2032.6	13:45	2032.6											
		10:03	1925.4	10:33	1938.7	11:03	1931.5	11:33	1924.9	12:04	1918.1	12:34	1914.3	1934.1	35.5	10	2488.0			
5-Jun-90	8:57	13:04	1907.9	13:35	1887.8	14:05	1996.1	14:05	1996.1											
		9:57	1993.7	10:27	2447.4	10:58	2303.7	11:28	2305.0	11:58	2244.7	12:28	2233.5	2205.5	133.1	10	2408.0			
6-Jun-90	9:00	12:59	2228.5	13:29	2090.1	13:59	2102.8	14:29	2106.0											
		9:59	2064.0	10:29	2113.3	10:59	2069.3	11:30	2044.3	12:00	2043.8	12:30	2039.6	2051.5	25.4	10	1990.0			
7-Jun-90	8:47	13:01	2039.0	13:31	2044.6	14:01	2025.5	14:31	2031.9											
		9:49	2016.2	10:20	2024.2	10:50	2015.5	11:20	2033.7	11:51	1923.9	12:21	2030.5	2014.5	32.4	10	2191.6			
8-Jun-90	8:43	12:51	2024.0	13:21	2030.8	13:52	2023.2	14:22	2023.2											
		9:44	2007.1	10:14	2014.5	10:44	2013.9	11:14	2014.3	11:45	2021.0	12:15	2023.2	2019.5	7.1	10	2177.9			
11-Jun-90	8:45	12:45	2022.2	13:15	2020.5	13:46	2028.2	14:16	2030.1											
		9:47	2046.6	10:18	2050.4	10:49	2062.6	11:20	2073.8	11:51	2064.6	12:22	2062.9	2060.9	8.5	10	2202.0			
12-Jun-91	8:36	12:53	2061.9	13:24	2068.5	13:55	2052.0	14:26	2065.3											
		9:36	2047.5	10:06	2060.8	10:37	2055.4	11:07	2063.4	11:37	2073.1	12:08	2074.0	1744.6	774.1	13	2180.2			
13-Jun-90	8:46	12:38	2058.6	13:08	2059.7	13:38	2057.1	14:09	2066.5											
		9:46	2066.7	10:17	2064.5	10:47	N.D.	11:17	N.D.	11:47	2076.1	12:18	2077.8	2072.1	15.5	8	2172.9			
14-Jun-90	8:46	12:48	2081.5	13:18	2089.5	13:48	2081.4	14:19	2039.3											
		9:46	2013.1	10:17	2010.2	10:47	2010.3	11:17	2021.2	11:47	2023.3	12:18	2022.4	2018.5	7.2	10	2204.7			
15-Jun-90	8:48	12:48	2020.4	13:18	2027.2	13:48	2027.5	14:19	2009.0											
		9:48	2050.3	10:18	2049.1	10:48	2059.5	11:18	2060.6	11:49	2054.6	12:19	2056.3	2056.9	4.6	10	2188.1			
		12:49	2055.4	13:20	2063.5	13:50	2059.7	14:20	2060.2											

Appendix B, continued: Chamber Analyses

ANALYTICAL AND NOMINAL CONCENTRATION - HIGH DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA														
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.	N	NOMINAL
18-Jun-90	8:43	9:43	2055.5	10:13	2057.2	10:44	2024.3	11:14	2023.3	11:44	2019.1	12:15	2032.7	2029.4	14.9	10	2174.9
		12:45	2025.5	13:15	2017.0	13:45	2016.6	14:16	2023.3								
19-Jun-90	8:37	9:37	2041.8	10:08	2044.3	10:38	2054.9	11:08	2063.2	11:39	2057.1	12:09	2061.4	2055.0	7.5	10	2187.2
		12:39	2053.1	13:09	2052.1	13:40	2058.0	14:10	2063.9								
20-Jun-90	8:36	9:36	2034.2	10:06	2038.9	10:37	2045.7	11:07	2053.2	11:37	2013.6	12:07	2002.6	2018.3	22.3	10	2221.6
		12:38	1999.4	13:08	2001.5	13:38	1998.0	14:08	1995.5								
21-Jun-90	8:37	9:38	2026.3	10:08	2028.2	10:38	2036.3	11:08	2041.1	11:38	2030.6	12:09	2038.9	2032.0	5.4	10	2178.8
		12:39	2033.3	13:09	2029.7	13:40	2024.5	14:10	2031.3								
22-Jun-90	8:38	9:39	2002.5	10:09	2006.0	10:39	2014.5	11:09	2015.1	11:40	2014.9	12:10	2022.6	2015.7	7.4	10	2155.7
		12:40	2025.6	13:11	2022.8	13:41	2012.7	14:11	2020.3								
25-Jun-90	8:48	9:48	1968.3	10:19	1970.4	10:49	1963.8	11:19	1958.2	11:49	1956.2	12:20	1957.0	1956.4	9.0	10	2083.3
		12:50	1947.5	13:20	1948.5	13:50	1949.8	14:21	1944.1								
26-Jun-90	8:23	9:23	2013.8	9:53	2013.8	10:23	2003.8	10:54	2018.6	11:24	2025.0	11:54	2023.7	2019.0	7.1	10	2174.0
		12:25	2022.9	12:55	2023.0	13:25	2018.2	13:55	2027.6								
27-Jun-90	8:30	9:35	2041.8	10:05	2046.1	10:36	2050.5	11:06	2046.5	11:36	2063.6	12:06	N.D.	2053.8	7.9	9	2162.9
		12:37	2055.0	13:07	2060.4	13:37	2062.6	14:08	2057.5								
28-Jun-90	8:38	9:39	2030.8	10:09	2033.7	10:39	2034.0	11:09	2044.3	11:40	2052.5	12:10	2049.3	2045.7	10.9	10	2158.8
		12:40	2039.9	13:11	2053.7	13:41	2063.9	14:11	2054.5								
29-Jun-90	8:30	9:30	2050.0	10:00	2051.4	10:30	2062.2	11:01	2058.0	11:31	2070.4	12:01	N.D.	2058.4	8.3	7	2173.6
		12:31	N.D.	13:02	N.D.	13:32	2066.5	14:02	2050.2								
2-Jul-90	8:32	9:32	2068.2	10:02	2059.3	10:33	2069.7	11:03	2072.7	11:33	2072.7	12:03	N.D.	2067.4	5.1	9	2170.4
		12:34	2067.1	13:04	2072.5	13:34	2061.6	14:04	2062.8								
3-Jul-90	8:48	9:49	2066.6	10:19	2055.4	10:49	2071.7	11:19	2075.7	11:50	N.D.	12:20	2082.1	2071.7	9.6	6	2140.3
		12:50	2078.6	13:21	N.D.	13:51	N.D.	14:21	N.D.								
5-Jul-90	8:40	9:39	2014.2	10:10	2017.9	10:40	2021.8	11:10	2023.1	11:40	2017.4	12:11	2021.9	2021.7	4.3	10	2170.2
		12:41	2024.2	13:11	2024.6	13:41	2029.3	14:12	2022.9								
6-Jul-90	8:34	9:34	1977.4	10:04	1986.0	10:34	1986.6	11:05	1990.6	11:35	1992.6	12:05	1993.9	1988.3	5.0	10	2177.1
		12:36	1993.2	13:06	1990.0	13:36	1983.9	14:06	1989.2								

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DATE	EXPOSURE		INDIVIDUAL DATA												MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.					
9-Jul-90	8:33	9:33	1995.3	10:04	1997.4	10:34	2007.5	11:04	2014.7	11:35	2015.1	12:05	2012.8	2006.2	6.7	10	2171.6	
		12:35	2005.4	13:05	2005.7	13:36	2003.3	14:06	2004.5									
10-Jul-90	8:52	9:50	1992.2	10:20	1998.9	10:51	2002.9	11:21	2005.5	11:51	2008.1	12:21	1998.6	2001.5	5.3	7	2196.1	
		12:51	2004.0	13:22	N.D.	13:52	N.D.	14:22	N.D.									
11-Jul-90	8:30	9:30	1991.9	10:00	1996.0	10:30	2009.6	11:01	2007.3	11:31	2003.1	12:01	2010.6	2003.6	5.8	10	2156.2	
		12:32	2004.7	13:02	2003.3	13:32	2003.6	14:02	2006.1									
12-Jul-90	8:45	9:45	1975.3	10:15	1984.0	10:45	1987.5	11:15	1986.8	11:45	1992.2	12:15	1990.1	1987.9	5.3	10	2169.0	
		12:45	1990.4	13:16	1995.0	13:46	1988.7	14:16	1988.7									
13-Jul-90	8:37	9:36	2010.4	10:06	2017.6	10:36	2014.8	11:06	2016.1	11:37	2024.7	12:07	2022.3	2017.6	4.2	10	2184.5	
		12:37	2020.6	13:07	2017.5	13:37	2014.1	14:07	2017.6									
16-Jul-90	8:52	9:52	1999.2	10:22	2007.3	10:53	2001.5	11:23	2003.8	11:53	2016.5	12:23	2016.2	2015.2	11.5	10	2274.3	
		12:53	2025.0	13:23	2026.2	13:53	2030.1	14:23	2026.4									
17-Jul-90	8:58	9:58	1988.6	10:28	1990.7	10:58	1994.7	11:29	2002.3	11:59	2004.1	12:29	2002.7	2000.6	7.1	10	2161.2	
		12:59	2005.2	13:29	2003.2	13:59	2002.9	14:29	2011.5									
18-Jul-90	8:20	9:20	1998.9	9:50	1994.6	10:21	1991.0	10:51	1996.0	11:21	2003.4	11:51	1999.9	1999.3	4.3	10	2180.2	
		12:21	2003.4	12:51	2002.9	13:21	2003.7	13:52	1999.6									
19-Jul-90	8:45	9:45	1989.6	10:15	1994.2	10:45	1996.5	11:15	2000.8	11:45	2006.0	12:15	2008.2	2000.8	5.9	10	2166.8	
		12:46	2001.0	13:16	2002.3	13:46	2006.9	14:16	2002.5									
20-Jul-90	8:42	9:42	1966.4	10:12	1965.5	10:42	1976.6	11:12	1982.4	11:42	1984.6	12:12	1976.0	1975.9	6.1	10	2156.9	
		12:42	1974.0	13:13	1979.5	13:43	1976.3	14:13	1977.6									
23-Jul-90	8:36	9:36	1964.5	10:06	1966.5	10:36	1967.6	11:06	1969.5	11:36	1994.9	12:07	2000.7	1983.9	15.0	10	2176.1	
		12:37	1988.7	13:07	1997.7	13:37	1991.2	14:07	1997.8									
24-Jul-90	8:48	9:48	1978.9	10:18	1995.0	10:49	1993.7	11:19	1999.1	11:49	1998.9	12:19	2002.8	1995.8	6.6	10	2183.2	
		12:49	1999.4	13:19	1999.3	13:49	1993.6	14:20	1996.8									
25-Jul-90	8:16	9:16	1976.5	9:46	1982.7	10:17	1977.3	10:47	1976.6	11:17	1986.5	11:47	1987.4	1978.9	5.5	10	2185.9	
		12:17	1976.9	12:47	1977.1	13:18	1979.4	13:48	1968.4									
26-Jul-90	8:44	9:44	1968.4	10:14	1969.6	10:44	1980.3	11:15	1978.4	11:45	1976.9	12:15	1982.0	1977.1	4.8	10	2165.0	
		12:45	1980.3	13:15	1975.4	13:45	1977.0	14:15	1982.2									

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EXPOSURE			INDIVIDUAL DATA														
DATE	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	MEAN	S.D.	N	NOMINAL
27-Jul-90	8:41	9:41	1977.0	10:12	1968.2	10:42	1970.4	11:12	1983.8	11:42	1989.7	12:12	1983.4	1979.9	6.5	10	2199.6
		12:42	1982.8	13:12	1983.8	13:42	1980.5	14:13	1979.4								
30-Jul-90	8:50	9:50	1975.8	10:20	1987.0	10:50	1991.1	11:20	1995.6	11:50	2004.3	12:20	1999.4	1992.3	8.1	10	2173.6
		12:51	2000.1	13:21	1990.2	13:51	1987.5	14:21	1992.4								
31-Jul-90	8:25	9:25	N.D.	9:56	2029.2	10:26	2012.0	10:56	2014.5	11:26	2025.5	11:56	2014.2	2013.4	9.0	9	2191.5
		12:26	2005.7	12:56	2008.1	13:26	2010.0	13:57	2001.1								
1-Aug-90	8:25	9:25	1979.5	9:56	1987.9	10:26	N.D.	10:56	1998.5	11:26	1994.6	11:56	1992.2	1989.4	7.1	8	2172.5
		12:26	1989.6	12:56	N.D.	13:27	1993.9	13:57	1978.8								
2-Aug-90	8:29	9:29	1984.5	9:59	2015.8	10:29	1995.0	11:00	2006.1	11:30	2012.8	12:00	2023.8	2004.1	11.2	10	2155.9
		12:30	2000.4	13:00	1997.6	13:30	2003.8	14:00	2000.8								
3-Aug-90	8:26	9:26	1980.3	9:56	1980.4	10:26	1985.3	10:56	1985.3	11:26	2021.9	11:57	2021.2	2002.3	18.4	10	2188.3
		12:27	1996.3	12:57	2019.0	13:27	2021.4	13:57	2012.1								
6-Aug-90	7:28	8:29	1915.1	8:59	1919.6	9:29	1910.4	9:59	1915.4	10:29	1907.3	10:59	1908.5	1937.4	39.4	10	2094.8
		11:29	1915.3	12:00	1999.8	12:30	1991.6	13:00	1991.2								
7-Aug-90	7:40	8:40	1987.0	9:11	1997.3	9:41	2005.4	10:11	2008.8	10:41	1994.4	11:11	2006.5	2002.7	7.9	10	2179.5
		11:41	2009.5	12:11	2001.0	12:42	2013.0	13:12	2004.5								
8-Aug-90	8:04	9:04	2021.1	9:34	2031.0	10:04	2043.4	10:34	2035.2	11:05	2027.3	11:35	2030.6	2015.9	21.3	10	2173.0
		12:05	1999.0	12:35	1997.9	13:05	1985.3	13:35	1987.8								
9-Aug-90	7:35	8:35	1988.1	9:05	2013.3	9:36	2006.4	10:06	2011.9	10:36	2019.7	11:06	2006.6	2004.6	10.5	10	2146.3
		11:36	1999.3	12:06	2010.8	12:36	1987.9	13:06	2002.2								
10-Aug-90	7:56	8:56	N.D.	9:26	1976.1	9:56	1981.8	10:26	1980.6	10:56	1981.8	11:27	1986.4	1984.4	7.4	9	2152.1
		11:57	2001.2	12:27	1989.0	12:57	1978.3	13:27	1984.9								
13-Aug-90	7:59	8:59	1986.3	9:29	1997.2	9:59	1998.9	10:29	1995.6	10:59	1998.8	11:29	1994.4	2000.7	8.0	10	2180.9
		11:59	2012.0	12:30	2008.1	13:00	2009.3	13:30	2006.4								
14-Aug-90	7:46	8:46	1985.0	9:17	2002.6	9:47	1989.9	10:17	1991.0	10:47	2004.3	11:17	2013.1	1999.7	8.4	10	2169.1
		11:47	2002.6	12:17	2002.1	12:47	2003.1	13:18	2003.4								
15-Aug-90	8:21	9:21	1996.3	9:51	1992.3	10:21	2005.8	10:51	2003.3	11:21	2007.5	11:51	2023.5	2009.5	10.7	10	2185.9
		12:22	2022.8	12:52	2008.3	13:22	2017.3	13:52	2017.5								

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ANALYTICAL AND NOMINAL CONCENTRATION - HIGH DOSE (CONT.)

DATE	EXPOSURE		INDIVIDUAL DATA												MEAN	S.D.	N	NOMINAL
	BEGAN	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.	TIME	CONC.					
16-Aug-90	7:36	8:36	1998.7	9:06	2002.6	9:36	2006.2	10:06	2014.8	10:36	2014.4	11:06	2009.0	2008.8	6.0	10	2197.2	
		11:36	2003.5	12:06	2009.2	12:37	2016.6	13:07	2013.1									
17-Aug-90	7:34	8:34	1998.5	9:04	1999.0	9:34	1995.6	10:04	2006.4	10:34	2007.1	11:04	2004.0	2003.2	5.4	10	2178.5	
		11:34	2013.9	12:05	2004.3	12:35	1998.6	13:05	2004.3									
20-Aug-90	8:22	9:23	1975.9	9:53	1996.7	10:23	1992.8	10:53	2004.5	11:23	2003.1	11:53	2008.0	1997.3	10.2	10	2174.9	
		12:23	2008.7	12:54	1999.7	13:24	1997.7	13:54	1986.4									
21-Aug-90	8:00	9:00	1995.7	9:30	1994.3	10:00	1996.2	10:30	2014.0	11:00	2025.0	11:30	2013.4	2010.0	11.0	10	2204.2	
		12:01	2019.5	12:31	2007.7	13:01	2016.5	13:31	2017.8									
22-Aug-90	8:30	9:30	2009.6	10:00	2014.0	10:31	2035.4	11:01	2030.4	11:31	2032.2	12:01	2038.0	2028.0	10.0	10	2196.1	
		12:31	2037.3	13:01	2034.3	13:31	2020.1	14:02	2029.0									
23-Aug-90	8:15	9:15	2027.3	9:45	2031.0	10:15	N.D.	10:45	2150.6	11:15	2105.0	11:45	2119.7	2097.8	41.4	9	2216.6	
		12:15	2108.7	12:46	2122.8	13:16	2106.2	13:46	2109.2									
24-Aug-90	8:14	9:14	2044.7	9:44	2080.4	10:14	2084.5	10:44	2101.3	11:15	2105.3	11:45	2093.2	2084.0	17.5	10	2208.7	
		12:15	2092.8	12:45	2091.3	13:15	2076.9	13:45	2070.3									
27-Aug-90	8:24	9:24	2052.9	9:54	2068.0	10:24	2088.4	10:54	2071.6	11:25	2064.9	11:55	N.D.	2074.3	11.2	9	2194.2	
		12:25	2085.1	12:55	2075.9	13:25	2081.5	13:55	2080.8									
28-Aug-90	8:38	9:38	2057.6	10:08	2066.4	10:38	2054.3	11:08	2062.2	11:38	2073.8	12:08	2078.9	2064.6	8.5	10	2189.1	
		12:39	2072.3	13:09	2067.4	13:39	2055.9	14:09	2057.4									
29-Aug-90	8:23	9:23	2005.5	9:53	2002.6	10:24	2026.3	10:54	2022.9	11:24	2031.0	11:54	2029.6	2021.9	9.8	10	2189.1	
		12:24	2029.2	12:54	2024.9	13:25	2024.4	13:55	2022.2									
30-Aug-90	8:23	9:22	2019.9	9:53	2029.2	10:23	2032.3	10:53	2025.7	11:23	2018.1	11:53	2032.5	2030.4	8.5	10	2193.9	
		12:23	2042.2	12:54	2040.3	13:24	2039.6	13:54	2024.3									
31-Aug-90	8:19	9:19	2019.1	9:49	2020.6	10:19	2035.2	10:50	2027.2	11:20	2031.2	11:50	2047.0	2031.4	8.5	10	2183.6	
		12:20	2031.6	12:50	2026.9	13:20	2034.8	13:50	2040.3									
N=														68		68		
MEAN T.W.A.														2016.3		2207.2		
S.D.														52.09		111.8		
RANGE														1745	2206	1990		

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Appendix C, Clinical Observations

INLIFE OBSERVATIONS - MALE

CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE#	OBSERVATION/COMMENT
0	90A3792	1-133		NO REMARKABLE OBSERVATIONS.
	90A3793	1-100		NO REMARKABLE OBSERVATIONS.
	90A3794	64		SPONTANEOUS
	90A3795	1-87 88 89-133	CL	NO REMARKABLE OBSERVATIONS. COMMENT: SWELLING AROUND RIGHT EYE NO REMARKABLE OBSERVATIONS.
	90A3796	1-100		NO REMARKABLE OBSERVATIONS.
	90A3797	1-133		NO REMARKABLE OBSERVATIONS.
	90A3798	1-66 67 68-100	CL	NO REMARKABLE OBSERVATIONS. COMMENT: BLEEDING SLIGHTLY AT SITE OF SURGERY NO REMARKABLE OBSERVATIONS.
	90A3799	1-133		NO REMARKABLE OBSERVATIONS.
	90A3800	1-133		NO REMARKABLE OBSERVATIONS.
	90A3801	1-92		NO REMARKABLE OBSERVATIONS.
	90A3802	1-133		NO REMARKABLE OBSERVATIONS.
	90A3803	1-133		NO REMARKABLE OBSERVATIONS.
	90A3804	1-100		NO REMARKABLE OBSERVATIONS.
	90A3805	1-100		NO REMARKABLE OBSERVATIONS.

EXAM TYPES: CG = CAGESIDE, CL = CLINICAL, CG* = CAGESIDE, NOTED ON CLINICAL EXAM, CL* = CLINICAL, NOTED ON CAGESIDE EXAM.

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Appendix C, continued: Clinical Observations

INLIFE OBSERVATIONS - MALE

CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE#	OBSERVATION/COMMENT
200	90A3806	1-133		NO REMARKABLE OBSERVATIONS.
	90A3807	1-100		NO REMARKABLE OBSERVATIONS.
	90A3808	1-133		NO REMARKABLE OBSERVATIONS.
	90A3809	1-133		NO REMARKABLE OBSERVATIONS.
	90A3810	123		SPONTANEOUS DEATH
	90A3811	1-100		NO REMARKABLE OBSERVATIONS.
	90A3812	67 1-66 68-133	CL	COMMENT: BLEEDING SLIGHTLY AT SITE OF SURGERY NO REMARKABLE OBSERVATIONS. NO REMARKABLE OBSERVATIONS.
	90A3813	1-100		NO REMARKABLE OBSERVATIONS.
	90A3814	1-100		NO REMARKABLE OBSERVATIONS.
	90A3815	1-133		NO REMARKABLE OBSERVATIONS.
	90A3816	1-93		NO REMARKABLE OBSERVATIONS.
	90A3817	1-133		NO REMARKABLE OBSERVATIONS.
	90A3818	1-133		NO REMARKABLE OBSERVATIONS.
	90A3819	67 1-66 68-100	CL	COMMENT: BLEEDING SLIGHTLY AT SITE OF SURGERY NO REMARKABLE OBSERVATIONS. NO REMARKABLE OBSERVATIONS.

EXAM TYPES: CG = CAGESIDE, CL = CLINICAL, CG* = CAGESIDE, NOTED ON CLINICAL EXAM, CL* = CLINICAL, NOTED ON CAGESIDE EXAM.

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TABLE
Appendix C, continued: Clinical Observations

INLIFE OBSERVATIONS - MALE

CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE#	OBSERVATION/COMMENT
630	90A3820	88-133 1-87	CL	EXCESSIVE CHROMODACYORRHEA, RIGHT NO REMARKABLE OBSERVATIONS.
	90A3821	74 1-73 75-100	CL	COMMENT: BLACK CRUST AROUND RIGHT EYE NO REMARKABLE OBSERVATIONS. NO REMARKABLE OBSERVATIONS.
	90A3822	126		MORIBUND
	90A3823	1-133		NO REMARKABLE OBSERVATIONS.
	90A3824	1-133		NO REMARKABLE OBSERVATIONS.
	90A3825	1-100		NO REMARKABLE OBSERVATIONS.
	90A3826	67 1-66 68-100	CL	COMMENT: BLEEDING SLIGHTLY AT SITE OF SURGERY NO REMARKABLE OBSERVATIONS. NO REMARKABLE OBSERVATIONS.
	90A3827	63		SPONTANEOUS
	90A3828	1-133		NO REMARKABLE OBSERVATIONS.
	90A3829	1-133		NO REMARKABLE OBSERVATIONS.
	90A3830	1-100		NO REMARKABLE OBSERVATIONS.
	90A3831	1-127		NO REMARKABLE OBSERVATIONS.
	90A3832	1-133		NO REMARKABLE OBSERVATIONS.
	90A3833	88-100 1-87	CL	EXCESSIVE CHROMODACYORRHEA, RIGHT NO REMARKABLE OBSERVATIONS.

EXAM TYPES: CG = CAGESIDE, CL = CLINICAL, CG* = CAGESIDE, NOTED ON CLINICAL EXAM, CL* = CLINICAL, NOTED ON CAGESIDE EXAM.

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INLIFE OBSERVATIONS - MALE

CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE#	OBSERVATION/COMMENT
2000	90A3834	11	CL	COMMENT: SWELLING AROUND RIGHT EYE
		19-46	CL	PERINEAL SOILING
		19	CL	COMMENT: SWELLING IS NO LONGER FOUND
		25	CL	COMMENT: PSL NO LONGER FOUND
		74-81	CL	PERINEAL SOILING
	90A3835	1-10		NO REMARKABLE OBSERVATIONS.
		1-18		NO REMARKABLE OBSERVATIONS.
		19-53	CL	PERINEAL SOILING
	90A3836	54-133		NO REMARKABLE OBSERVATIONS.
		1-92		NO REMARKABLE OBSERVATIONS.
	90A3837	1-100		NO REMARKABLE OBSERVATIONS.
	90A3838	1-100		NO REMARKABLE OBSERVATIONS.
	90A3839	46-53	CL	PERINEAL SOILING
		1-45		NO REMARKABLE OBSERVATIONS.
		54-121		NO REMARKABLE OBSERVATIONS.
	90A3840	67	CL	COMMENT: BLEEDING SLIGHTLY AT SITE OF SURGERY
		1-66		NO REMARKABLE OBSERVATIONS.
		1-133		NO REMARKABLE OBSERVATIONS.
	90A3841	1-133		NO REMARKABLE OBSERVATIONS.
	90A3842	1-133		NO REMARKABLE OBSERVATIONS.
	90A3843	1-133		NO REMARKABLE OBSERVATIONS.
	90A3844	1-100		NO REMARKABLE OBSERVATIONS.
	90A3845	1-100		NO REMARKABLE OBSERVATIONS.
	90A3846	58	CG	COMMENT: FOOD AND WATER CHECKED- BOTH AVAILABLE
		58		SPONTANEOUS DEATH
		1-57		NO REMARKABLE OBSERVATIONS.
	90A3847	1-133		NO REMARKABLE OBSERVATIONS.

EXAM TYPES: CG = CAGESIDE, CL = CLINICAL, CG* = CAGESIDE, NOTED ON CLINICAL EXAM, CL* = CLINICAL, NOTED ON CAGESIDE EXAM.

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INLIFE OBSERVATIONS - FEMALE				
CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE#	OBSERVATION/COMMENT
0	90A3848	1-133		NO REMARKABLE OBSERVATIONS.
	90A3849	1-133		NO REMARKABLE OBSERVATIONS.
	90A3850	81-88	CL	EXCESSIVE CHROMODACYORRHEA, RIGHT
		1-80		NO REMARKABLE OBSERVATIONS.
		89-133		NO REMARKABLE OBSERVATIONS.
	90A3851	1-133		NO REMARKABLE OBSERVATIONS.
	90A3852	1-100		NO REMARKABLE OBSERVATIONS.
	90A3853	1-133		NO REMARKABLE OBSERVATIONS.
	90A3854	88-100	CL	EYELIDS CLOSED, LEFT
		1-87		NO REMARKABLE OBSERVATIONS.
	90A3855	1-100		NO REMARKABLE OBSERVATIONS.
	90A3856	1-100		NO REMARKABLE OBSERVATIONS.
	90A3857	1-100		NO REMARKABLE OBSERVATIONS.
	90A3858	1-93		NO REMARKABLE OBSERVATIONS.
	90A3859	1-120		NO REMARKABLE OBSERVATIONS.
	90A3860	1-133		NO REMARKABLE OBSERVATIONS.
	90A3861	119-133	CG	EYE OPAQUE, LEFT
		1-118		NO REMARKABLE OBSERVATIONS.

! EXAM TYPES: CG = CAGESIDE, CL = CLINICAL, CG* = CAGESIDE, NOTED ON CLINICAL EXAM, CL* = CLINICAL, NOTED ON CAGESIDE EXAM.

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INLIFE OBSERVATIONS - FEMALE

CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE#	OBSERVATION/COMMENT
200	90A3862	1-100		NO REMARKABLE OBSERVATIONS.
	90A3863	1-133		NO REMARKABLE OBSERVATIONS.
	90A3864	74	CL	COMMENT: RIGHT EYE SWOLLEN - SLIGHTLY CLOSED
		1-73		NO REMARKABLE OBSERVATIONS.
		1-100		NO REMARKABLE OBSERVATIONS.
	90A3865	1-100		NO REMARKABLE OBSERVATIONS.
	90A3866	66		SPONTANEOUS
	90A3867	1-133		NO REMARKABLE OBSERVATIONS.
	90A3868	1-133		NO REMARKABLE OBSERVATIONS.
	90A3869	1-100		NO REMARKABLE OBSERVATIONS.
	90A3870	1-133		NO REMARKABLE OBSERVATIONS.
	90A3871	1-92		NO REMARKABLE OBSERVATIONS.
	90A3872	1-133		NO REMARKABLE OBSERVATIONS.
	90A3873	1-133		NO REMARKABLE OBSERVATIONS.
	90A3874	1-133		NO REMARKABLE OBSERVATIONS.
	90A3875	39	CL	COMMENT: BLACK CRUST AROUND LEFT EYE
		52	CL	COMMENT: REDDISH CRUST AND SWELLING AROUND LEFT EYE
		88-100	CL	EYELIDS CLOSED, RIGHT
		1-38		NO REMARKABLE OBSERVATIONS.
		40-51		NO REMARKABLE OBSERVATIONS.
		53-87		NO REMARKABLE OBSERVATIONS.

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INLIFE OBSERVATIONS - FEMALE

CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE ¹	OBSERVATION/COMMENT
630	90A3876	1-133		NO REMARKABLE OBSERVATIONS.
	90A3877	1-100		NO REMARKABLE OBSERVATIONS.
	90A3878	1-133		NO REMARKABLE OBSERVATIONS.
	90A3879	67-74	CL	EYELIDS SQUINTED, LEFT
		1-66		NO REMARKABLE OBSERVATIONS.
		75-133		NO REMARKABLE OBSERVATIONS.
	90A3880	1-112		NO REMARKABLE OBSERVATIONS.
	90A3881	1-133		NO REMARKABLE OBSERVATIONS.
	90A3882	1-100		NO REMARKABLE OBSERVATIONS.
	90A3883	1-100		NO REMARKABLE OBSERVATIONS.
	90A3884	1-133		NO REMARKABLE OBSERVATIONS.
	90A3885	1-100		NO REMARKABLE OBSERVATIONS.
	90A3886	67	CL	COMMENT: LEFT EYE CLOSED
		1-66		NO REMARKABLE OBSERVATIONS.
		68-100		NO REMARKABLE OBSERVATIONS.
	90A3887	1-133		NO REMARKABLE OBSERVATIONS.
	90A3888	60	CL	COMMENT: SLIGHT SWELLING AROUND LEFT EYE
		1-59		NO REMARKABLE OBSERVATIONS.
	90A3889	39	CL	COMMENT: BLACK CRUST AROUND LEFT EYE
		46	CL	COMMENT: SLIGHT SWELLING AROUND LEFT EYE-CRUST NFR
		88	CL	COMMENT: BLACK CRUST AROUND RIGHT EYE
		1-38		NO REMARKABLE OBSERVATIONS.
		40-45		NO REMARKABLE OBSERVATIONS.
		47-87		NO REMARKABLE OBSERVATIONS.
		89-133		NO REMARKABLE OBSERVATIONS.

¹ EXAM TYPES: CG = CAGESIDE, CL = CLINICAL, CG* = CAGESIDE, NOTED ON CLINICAL EXAM, CL* = CLINICAL, NOTED ON CAGESIDE EXAM.

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INLIFE OBSERVATIONS - FEMALE			
CONC. PPM	ANIMAL NUMBER	TEST DAY	EXAM TYPE# OBSERVATION/COMMENT
2000	90A3890	1-133	NO REMARKABLE OBSERVATIONS.
	90A3891	1-100	NO REMARKABLE OBSERVATIONS.
	90A3892	74 101	CL COMMENT: BLACK CRUST AROUND LEFT EYE SACRIFICED
	90A3893	1-100	NO REMARKABLE OBSERVATIONS.
	90A3894	66	SPONTANEOUS
	90A3895	1-133	NO REMARKABLE OBSERVATIONS.
	90A3896	67	SPONTANEOUS
	90A3897	12	CL COMMENT: REDDISH MATERIAL AROUND LEFT EYE
		52	CL COMMENT: REDDISH MATERIAL/SLIGHT SWELLING BOTH EYES
		1-11	NO REMARKABLE OBSERVATIONS.
		13-51	NO REMARKABLE OBSERVATIONS.
		53-100	NO REMARKABLE OBSERVATIONS.
	90A3898	67	CL COMMENT: RIGHT EYE CLOSED
		81	CL COMMENT: SWELLING AROUND LEFT EYE
		1-66	NO REMARKABLE OBSERVATIONS.
		68-80	NO REMARKABLE OBSERVATIONS.
		82-133	NO REMARKABLE OBSERVATIONS.
	90A3899	1-133	NO REMARKABLE OBSERVATIONS.
	90A3900	1-133	NO REMARKABLE OBSERVATIONS.
	90A3901	88	CL COMMENT: BLACK CRUST - LEFT EYE
		1-87	NO REMARKABLE OBSERVATIONS.
		89-100	NO REMARKABLE OBSERVATIONS.
	90A3902	1-133	NO REMARKABLE OBSERVATIONS.
	90A3903	1-133	NO REMARKABLE OBSERVATIONS.

EXAM TYPES: CG = CAGESIDE, CL = CLINICAL, CG* = CAGESIDE, NOTED ON CLINICAL EXAM, CL* = CLINICAL, NOTED ON CAGESIDE EXAM.

Appendix D: Body Weights

ID	Sex	Conc	Group	Test Day								
				-6	2	9	16	23	30	37	44	51
90A3792	Male	0 ppm	A	292.5	294.4	297.3	301.8	309.0	308.4	306.9	308.9	310.8
90A3793	Male	0 ppm	A	276.5	289.2	297.7	302.9	311.1	310.3	307.6	310.6	309.6
90A3794	Male	0 ppm	A	307.1	311.6	319.8	332.3	339.0	341.9	346.8	351.5	356.8
90A3795	Male	0 ppm	A	290.2	294.4	296.6	307.0	316.4	316.0	327.0	333.8	336.8
90A3796	Male	0 ppm	A	284.4	288.6	279.1	280.8	287.3	287.2	290.6	289.0	290.3
90A3797	Male	0 ppm	A	299.7	301.7	301.6	305.9	311.5	311.0	315.9	319.4	323.6
90A3798	Male	0 ppm	A	297.3	307.9	324.2	330.8	337.9	336.2	341.4	349.5	348.7
90A3799	Male	0 ppm	B	320.8	329.6	329.8	336.3	340.7	347.1	344.3	346.03	53.7
90A3800	Male	0 ppm	B	309.3	291.9	319.4	321.2	329.9	335.7	343.0	349.3	353.8
90A3801	Male	0 ppm	B	281.2	288.0	293.1	298.4	302.1	301.5	300.7	293.3	297.7
90A3802	Male	0 ppm	B	284.6	287.1	291.8	296.0	299.5	302.7	304.2	308.4	310.3
90A3803	Male	0 ppm	B	293.0	293.8	302.2	306.3	318.7	320.5	331.9	338.7	344.4
90A3804	Male	0 ppm	B	298.1	300.4	312.8	321.8	328.7	331.8	335.0	349.0	351.7
90A3805	Male	0 ppm	B	316.0	311.5	314.8	309.6	312.5	316.9	314.4	315.0	314.7
Mean				296.5	299.3	305.7	310.8	317.5	319.1	322.1	325.9	328.8
SD				13.2	12.2	14.5	15.7	16.0	17.3	18.6	22.1	23.1
N				14	14	14	14	14	14	14	14	14
90A3806	Male	200 ppm	A	292.3	304.1	317.2	327.9	342.4	348.2	357.5	367.2	374.8
90A3807	Male	200 ppm	A	284.3	296.3	305.2	312.8	316.8	316.2	326.5	330.3	334.0
90A3808	Male	200 ppm	A	295.4	303.9	309.0	325.9	332.2	333.2	336.0	342.2	345.9
90A3809	Male	200 ppm	A	299.9	301.1	307.7	315.3	322.2	319.1	324.6	329.4	336.8
90A3810	Male	200 ppm	A	293.9	297.3	303.3	306.2	307.1	304.7	301.3	307.9	314.4
90A3811	Male	200 ppm	A	311.9	324.4	335.2	339.5	345.3	348.1	355.7	359.9	364.7
90A3812	Male	200 ppm	A	275.1	286.5	306.3	310.0	316.2	317.2	325.5	336.1	350.5
90A3813	Male	200 ppm	B	317.6	317.6	322.3	330.5	333.0	339.7	341.5	348.6	352.8
90A3814	Male	200 ppm	B	296.5	294.4	296.1	300.9	306.6	311.6	322.7	322.0	324.0
90A3815	Male	200 ppm	B	284.4	290.1	294.1	299.6	303.0	312.1	316.1	319.5	320.5
90A3816	Male	200 ppm	B	313.2	312.3	318.0	328.0	333.4	340.5	348.2	343.4	355.9
90A3817	Male	200 ppm	B	276.4	269.6	277.1	280.0	284.9	281.9	290.9	292.3	296.4
90A3818	Male	200 ppm	B	299.8	293.7	300.9	309.4	312.1	312.8	320.3	324.6	330.0
90A3819	Male	200 ppm	B	299.3	301.5	310.1	313.3	323.5	319.7	333.8	340.5	329.4
Mean				295.7	299.5	307.3	314.2	319.9	321.8	328.6	333.1	337.9
SD				12.9	13.5	13.9	15.4	16.7	18.4	18.9	19.8	21.1
N				14	14	14	14	14	14	14	14	14

Appendix D, continued: Body Weights

ID	Sex	Conc	Group	Test Day								
				-6	2	9	16	23	30	37	44	51
90A3820	Male	630 ppm	A	299.4	301.0	313.1	316.7	318.7	319.3	327.7	334.1	338.5
90A3821	Male	630 ppm	A	292.3	299.2	309.6	317.8	324.5	327.7	333.4	337.0	345.1
90A3822	Male	630 ppm	A	285.0	293.4	305.7	314.1	327.6	333.4	344.9	349.9	352.0
90A3823	Male	630 ppm	A	308.5	322.9	331.6	339.3	347.7	348.6	357.0	365.8	371.2
90A3824	Male	630 ppm	A	283.6	294.6	301.6	309.7	319.0	322.8	336.2	342.0	353.5
90A3825	Male	630 ppm	A	291.3	299.2	303.9	299.1	314.3	313.1	322.0	326.9	330.7
90A3826	Male	630 ppm	A	297.1	300.1	302.8	307.2	319.4	312.7	323.1	326.7	329.0
90A3827	Male	630 ppm	B	294.9	301.4	308.8	314.7	321.8	327.9	336.3	343.5	351.5
90A3828	Male	630 ppm	B	287.5	291.9	300.2	303.8	316.0	320.7	330.0	342.7	353.6
90A3829	Male	630 ppm	B	313.4	314.6	318.7	324.6	326.0	323.0	326.5	329.2	336.7
90A3830	Male	630 ppm	B	299.7	293.8	295.9	299.2	300.1	296.0	293.8	296.9	298.0
90A3831	Male	630 ppm	B	305.8	312.7	315.2	315.5	320.5	323.0	325.0	327.1	335.0
90A3832	Male	630 ppm	B	274.9	286.1	296.1	304.6	307.0	313.3	322.9	328.9	335.3
90A3833	Male	630 ppm	B	319.2	316.2	313.3	324.9	329.8	333.8	337.7	348.3	356.3
Mean				296.6	301.9	308.3	313.7	320.9	322.5	329.7	335.6	341.9
SD				12.2	10.7	9.7	11.1	11.0	12.3	14.2	15.8	17.3
N				14	14	14	14	14	14	14	14	14
90A3834	Male	2000 ppm	A	300.7	302.8	308.1	316.8	317.6	322.5	327.8	329.7	337.4
90A3835	Male	2000 ppm	A	309.5	318.9	328.9	338.6	346.4	349.9	357.5	362.4	365.4
90A3836	Male	2000 ppm	A	286.4	300.8	316.6	329.9	339.8	340.9	347.5	358.4	357.8
90A3837	Male	2000 ppm	A	283.2	303.6	312.7	323.7	342.0	319.4	359.7	364.4	368.5
90A3838	Male	2000 ppm	A	289.4	288.3	299.4	301.2	304.8	304.4	311.8	317.2	322.9
90A3839	Male	2000 ppm	A	295.2	300.8	304.8	306.7	316.6	320.7	319.9	330.3	329.8
90A3840	Male	2000 ppm	A	293.3	301.0	314.6	317.3	321.7	320.3	322.9	324.2	312.4
90A3841	Male	2000 ppm	B	310.7	311.1	318.4	332.6	336.9	347.2	351.8	356.9	362.9
90A3842	Male	2000 ppm	B	321.9	322.1	329.3	334.5	339.5	344.5	345.9	350.6	346.8
90A3843	Male	2000 ppm	B	291.1	292.7	292.0	296.3	289.4	295.5	294.9	293.6	300.9
90A3844	Male	2000 ppm	B	299.6	303.2	319.4	331.2	336.4	343.3	348.8	351.4	357.1
90A3845	Male	2000 ppm	B	282.8	292.0	305.7	316.9	323.2	329.2	335.5	336.8	337.8
90A3846	Male	2000 ppm	B	313.8	318.9	325.0	327.6	325.6	329.4	318.6	314.9	326.1
90A3847	Male	2000 ppm	B	294.3	286.2	296.2	306.6	288.6	304.8	310.6	319.7	333.1
Mean				298.0	303.0	312.2	320.0	323.5	326.6	332.4	336.5	339.9
SD				12.0	11.4	11.7	13.3	18.7	17.2	20.0	21.4	20.7
N				14	14	14	14	14	14	14	14	14

Appendix D, continued: Body Weights

ID	Sex	Conc	Group	Test Day								
				-6	2	9	16	23	30	37	44	51
90A3848 Female		0 ppm	A	162.8	173.0	172.0	176.2	179.1	177.4	181.6	183.1	184.4
90A3849 Female		0 ppm	A	166.2	172.8	176.3	174.5	181.5	185.5	188.5	192.1	192.3
90A3850 Female		0 ppm	A	169.7	173.9	174.4	182.6	188.2	188.8	189.9	193.7	193.8
90A3851 Female		0 ppm	A	165.7	171.6	163.4	177.6	177.8	177.8	178.7	184.7	187.7
90A3852 Female		0 ppm	A	168.3	170.7	175.7	178.4	183.2	183.8	184.5	186.3	187.9
90A3853 Female		0 ppm	A	170.6	174.8	178.0	177.4	179.9	181.0	184.2	184.6	185.5
90A3854 Female		0 ppm	A	163.2	163.3	166.6	166.6	171.8	171.1	172.3	178.9	180.3
90A3855 Female		0 ppm	B	168.6	167.1	166.3	172.6	174.2	180.3	180.8	185.5	189.8
90A3856 Female		0 ppm	B	171.8	171.9	173.0	177.7	178.4	180.5	184.3	188.2	185.0
90A3857 Female		0 ppm	B	165.9	164.8	166.3	167.7	169.9	172.1	174.5	179.2	179.2
90A3858 Female		0 ppm	B	169.1	170.7	170.3	174.0	176.2	178.2	178.0	179.9	182.7
90A3859 Female		0 ppm	B	173.8	175.5	179.5	181.8	187.6	184.0	188.9	190.3	190.0
90A3860 Female		0 ppm	B	166.7	170.8	171.7	176.3	180.9	182.0	184.9	192.2	191.0
90A3861 Female		0 ppm	B	162.1	164.1	169.0	171.7	171.4	174.2	173.4	173.3	180.6
Mean				167.5	170.4	171.6	175.4	178.6	179.8	181.7	185.1	186.4
SD				3.5	4.0	4.9	4.6	5.6	5.1	5.7	5.9	4.7
N				14	14	14	14	14	14	14	14	14
90A3862 Female		200 ppm	A	166.3	171.9	176.1	178.0	181.6	180.5	181.7	181.2	180.3
90A3863 Female		200 ppm	A	169.5	171.8	177.3	180.0	182.8	181.6	187.1	188.9	189.8
90A3864 Female		200 ppm	A	166.0	169.5	173.3	177.7	181.8	180.6	181.5	189.8	187.5
90A3865 Female		200 ppm	A	167.8	169.1	172.2	173.8	179.4	178.9	180.4	181.0	185.4
90A3866 Female		200 ppm	A	170.8	171.7	173.9	176.5	180.8	186.0	187.3	189.8	192.6
90A3867 Female		200 ppm	A	165.2	166.0	172.2	173.4	181.2	181.7	184.8	185.6	185.7
90A3868 Female		200 ppm	A	161.6	163.5	167.4	172.3	173.1	173.8	173.5	172.6	179.1
90A3869 Female		200 ppm	B	165.8	169.3	175.6	178.3	181.5	182.8	181.5	190.5	189.4
90A3870 Female		200 ppm	B	173.4	173.8	170.1	177.4	178.7	181.4	177.6	181.4	186.6
90A3871 Female		200 ppm	B	171.4	172.0	174.7	177.6	178.4	181.5	183.9	183.8	188.3
90A3872 Female		200 ppm	B	168.6	169.0	167.6	170.3	173.2	174.9	174.1	177.8	182.8
90A3873 Female		200 ppm	B	170.2	171.3	174.0	174.0	178.3	177.8	180.0	184.1	189.5
90A3874 Female		200 ppm	B	163.7	163.9	167.6	171.7	173.0	174.6	180.6	177.9	182.1
90A3875 Female		200 ppm	B	166.8	170.6	172.4	180.6	182.4	179.7	182.4	182.2	191.5
Mean				167.6	169.5	172.5	175.8	179.0	179.7	181.2	183.3	186.5
SD				3.2	3.1	3.2	3.2	3.5	3.4	4.1	5.3	4.1
N				14	14	14	14	14	14	14	14	14

Appendix D, continued: Body Weights

ID	Sex	Conc	Group	Test Day								
				-6	2	9	16	23	30	37	44	51
90A3876	Female	630 ppm	A	168.1	177.1	181.3	183.1	186.6	191.4	190.8	192.8	194.5
90A3877	Female	630 ppm	A	162.9	166.5	172.7	176.6	183.1	184.4	185.9	194.4	188.0
90A3878	Female	630 ppm	A	166.8	168.6	173.7	175.2	175.4	176.3	178.8	182.1	182.1
90A3879	Female	630 ppm	A	170.6	172.6	176.0	178.9	182.5	184.3	188.3	188.2	190.4
90A3880	Female	630 ppm	A	159.9	159.5	159.2	165.2	169.0	167.5	174.3	172.7	176.7
90A3881	Female	630 ppm	A	165.8	172.5	178.1	182.6	187.0	188.6	190.0	192.0	191.8
90A3882	Female	630 ppm	A	169.2	173.7	176.9	176.7	184.1	179.3	183.7	184.0	185.4
90A3883	Female	630 ppm	B	164.1	164.1	166.3	168.9	168.4	170.7	174.4	174.4	176.7
90A3884	Female	630 ppm	B	172.2	173.2	172.7	176.5	179.2	179.5	182.6	186.3	190.9
90A3885	Female	630 ppm	B	164.2	163.7	166.5	168.5	172.0	168.5	172.0	173.3	174.9
90A3886	Female	630 ppm	B	166.9	167.6	166.2	168.1	167.6	170.7	173.6	180.7	177.8
90A3887	Female	630 ppm	B	168.4	171.3	172.6	178.9	185.4	181.4	183.4	187.6	188.3
90A3888	Female	630 ppm	B	170.1	173.6	178.4	182.1	186.6	184.8	186.5	189.1	192.5
90A3889	Female	630 ppm	B	172.5	175.1	173.2	182.1	183.9	186.0	191.5	191.2	197.3
Mean				167.3	169.9	172.4	176.0	179.3	179.5	182.6	184.9	186.2
SD				3.6	5.1	6.0	6.0	7.3	7.7	6.8	7.3	7.4
N				14	14	14	14	14	14	14	14	14
90A3890	Female	2000 ppm	A	167.3	164.7	175.0	176.8	180.2	182.4	185.2	185.0	189.2
90A3891	Female	2000 ppm	A	172.1	172.2	179.5	179.7	185.7	185.7	191.3	192.2	191.1
90A3892	Female	2000 ppm	A	166.0	168.7	177.2	176.7	179.7	180.8	187.4	182.0	184.0
90A3893	Female	2000 ppm	A	165.3	172.1	178.1	182.4	189.5	192.2	195.3	197.1	198.0
90A3894	Female	2000 ppm	A	165.7	168.9	173.1	171.6	175.5	176.7	183.8	183.4	184.6
90A3895	Female	2000 ppm	A	163.2	175.2	185.5	194.0	196.2	196.8	200.7	200.9	205.1
90A3896	Female	2000 ppm	A	168.0	164.4	173.7	175.5	182.3	182.3	182.9	190.1	191.9
90A3897	Female	2000 ppm	B	172.8	168.0	166.6	170.9	180.6	180.4	185.3	185.0	191.0
90A3898	Female	2000 ppm	B	166.6	170.6	173.8	174.4	175.1	179.9	177.6	183.2	185.4
90A3899	Female	2000 ppm	B	165.0	174.7	177.5	180.7	187.5	189.2	193.5	189.0	188.6
90A3900	Female	2000 ppm	B	170.2	170.7	176.6	178.7	179.7	185.1	182.7	185.4	186.1
90A3901	Female	2000 ppm	B	169.0	163.3	166.7	168.0	173.5	178.4	181.7	184.5	186.7
90A3902	Female	2000 ppm	A	169.3	172.0	176.3	179.2	182.1	181.5	183.3	186.7	185.8
90A3903	Female	2000 ppm	A	162.8	170.5	181.1	184.9	188.3	188.0	196.9	194.0	199.5
Mean				167.4	169.7	175.8	178.1	182.6	184.2	187.7	188.5	190.5
SD				3.0	3.7	5.0	6.5	6.3	5.6	6.7	5.7	6.3
N				14	14	14	14	14	14	14	14	14

Appendix D, continued: Body Weights

ID	Sex	Conc	Group	Test Day							
				58	65	72	79	86	93	99	128
90A3792	Male	0 ppm	A	306.4	292.6	304.2	315.0	323.2	314.6	b	344.6
90A3793	Male	0 ppm	A	310.5	303.9	309.3	321.6	319.3	326.4	b	a
90A3794	Male	0 ppm	A	355.0	a	a	a	a	a	a	a
90A3795	Male	0 ppm	A	343.4	354.2	333.8	342.4	339.8	350.6	b	349.7
90A3796	Male	0 ppm	A	290.9	295.2	284.7	290.9	298.9	297.0	b	a
90A3797	Male	0 ppm	A	326.0	330.5	323.4	333.4	345.8	345.0	b	342.5
90A3798	Male	0 ppm	A	348.8	353.7	335.8	336.3	345.8	348.3	b	a
90A3799	Male	0 ppm	B	360.5	352.1	361.9	373.3	381.6	377.7	363.5	396.0
90A3800	Male	0 ppm	B	352.8	334.5	340.6	335.4	335.2	336.8	325.4	353.4
90A3801	Male	0 ppm	B	301.3	287.7	296.1	301.6	313.7	318.1	a	a
90A3802	Male	0 ppm	B	317.0	324.5	312.8	319.1	323.2	323.3	314.3	336.9
90A3803	Male	0 ppm	B	338.4	348.3	331.6	336.1	333.5	334.4	322.5	374.6
90A3804	Male	0 ppm	B	352.6	360.4	345.5	364.1	373.5	365.0	340.8	a
90A3805	Male	0 ppm	B	317.2	320.7	317.7	325.7	330.4	327.2	311.6	a
Mean				330.1	327.6	322.9	330.4	335.7	335.7	329.7	356.8
SD				22.9	25.9	21.5	22.5	22.7	21.7	19.5	21.1
N				14	13	13	13	13	13	6	7
90A3806	Male	200 ppm	A	377.6	364.6	373.7	376.0	383.4	376.3	b	411.5
90A3807	Male	200 ppm	A	339.1	325.2	331.9	337.3	340.2	343.2	b	a
90A3808	Male	200 ppm	A	347.1	334.6	342.4	347.1	352.3	354.5	b	367.5
90A3809	Male	200 ppm	A	336.9	346.7	327.2	339.7	324.1	344.3	b	351.1
90A3810	Male	200 ppm	A	311.8	320.3	287.9	273.5	273.9	264.4	b	a
90A3811	Male	200 ppm	A	367.3	370.7	362.1	372.9	381.2	383.9	b	a
90A3812	Male	200 ppm	A	345.4	353.1	331.3	345.1	348.2	335.8	b	388.2
90A3813	Male	200 ppm	B	355.2	343.6	342.3	343.0	344.7	332.3	321.5	a
90A3814	Male	200 ppm	B	330.4	315.3	314.8	321.9	327.1	324.0	308.1	a
90A3815	Male	200 ppm	B	323.7	309.4	325.9	336.6	337.5	339.6	325.8	354.9
90A3816	Male	200 ppm	B	352.6	364.3	354.5	351.0	363.5	370.0	a	a
90A3817	Male	200 ppm	B	295.7	305.4	296.5	300.6	309.4	308.0	304.7	331.6
90A3818	Male	200 ppm	B	330.8	327.7	317.5	323.5	333.3	330.8	321.5	347.3
90A3819	Male	200 ppm	B	324.0	332.3	324.3	335.6	346.1	350.2	331.0	a
Mean				338.4	336.7	330.9	336.0	340.3	339.8	318.8	364.6
SD				21.6	21.1	23.5	26.3	28.0	29.9	10.3	27.2
N				14	14	14	14	14	14	6	7

^aAnimal died;^bData not collected.

Appendix D, continued: Body Weights

ID	Sex	Conc	Group	Test Day							
				58	65	72	79	86	93	99	128
90A3820	Male	630 ppm	A	336.0	326.2	327.8	338.2	335.0	329.7	b	362.6
90A3821	Male	630 ppm	A	346.8	325.7	277.4	265.4	293.3	309.4	b	a
90A3822	Male	630 ppm	A	349.2	344.0	345.1	352.0	356.7	361.7	b	a
90A3823	Male	630 ppm	A	368.5	372.0	350.9	349.9	356.6	358.7	b	378.2
90A3824	Male	630 ppm	A	355.7	363.0	335.7	340.5	341.5	353.1	b	373.6
90A3825	Male	630 ppm	A	333.0	330.7	318.0	321.5	333.0	329.7	b	a
90A3826	Male	630 ppm	A	326.2	328.8	318.1	323.7	325.3	322.5	b	a
90A3827	Male	630 ppm	B	356.2	a	a	a	a	a	a	a
90A3828	Male	630 ppm	B	354.2	339.6	349.2	360.6	371.0	368.5	359.0	397.5
90A3829	Male	630 ppm	B	334.0	323.7	341.4	346.0	345.4	319.0	310.1	371.0
90A3830	Male	630 ppm	B	297.8	310.4	297.7	289.6	290.9	282.1	273.2	a
90A3831	Male	630 ppm	B	335.4	345.8	337.9	333.7	343.4	342.1	322.1	a
90A3832	Male	630 ppm	B	337.9	343.0	337.8	347.5	345.3	343.3	329.2	372.7
90A3833	Male	630 ppm	B	356.4	360.3	347.8	358.4	362.6	364.5	351.6	.
Mean				341.9	339.5	329.6	332.8	338.5	337.3	324.2	375.9
SD				17.5	17.7	21.9	27.7	24.1	25.1	31.0	11.7
N				14	13	13	13	13	13	6	6
90A3834	Male	2000 ppm	A	334.6	322.4	336.0	339.7	341.1	330.6	b	368.6
90A3835	Male	2000 ppm	A	363.5	347.9	345.0	353.7	354.4	364.9	b	380.0
90A3836	Male	2000 ppm	A	363.5	351.1	354.4	359.2	364.4	373.5	b	a
90A3837	Male	2000 ppm	A	373.8	383.3	359.4	374.5	381.9	390.6	b	a
90A3838	Male	2000 ppm	A	321.2	329.2	312.8	324.4	332.7	334.1	b	a
90A3839	Male	2000 ppm	A	326.0	328.0	323.3	335.0	337.5	330.6	b	a
90A3840	Male	2000 ppm	A	309.6	304.2	292.7	302.3	296.8	299.8	b	291.3
90A3841	Male	2000 ppm	B	370.5	362.6	360.1	368.1	371.9	350.2	343.9	a
90A3842	Male	2000 ppm	B	348.6	330.6	346.2	354.3	360.2	351.7	351.9	390.0
90A3843	Male	2000 ppm	B	304.0	295.7	299.8	310.2	314.4	309.8	300.6	315.9
90A3844	Male	2000 ppm	B	355.4	358.9	352.6	363.9	375.1	370.8	353.1	a
90A3845	Male	2000 ppm	B	337.0	342.2	331.3	341.3	346.9	348.9	329.7	a
90A3846	Male	2000 ppm	B	317.7	a	a	a	a	a	a	a
90A3847	Male	2000 ppm	B	331.9	333.0	325.1	337.9	347.8	345.6	328.3	362.1
Mean				339.8	337.6	333.7	343.4	348.1	346.2	334.6	351.3
SD				23.0	23.8	22.1	21.9	24.3	25.6	19.7	39.0
N				14	13	13	13	13	13	6	6

^aAnimal died;^bData not collected.

SL 030880

Appendix D, continued: Body Weights

ID	Sex	Conc	Group	Test Day							
				58	65	72	79	86	93	99	128
90A3848	Female	0 ppm	A	183.8	178.2	181.9	188.8	191.8	183.6	b	194.1
90A3849	Female	0 ppm	A	195.5	181.7	191.9	197.8	202.5	198.1	b	204.5
90A3850	Female	0 ppm	A	199.9	192.7	196.8	204.3	208.2	203.0	b	207.4
90A3851	Female	0 ppm	A	191.9	192.3	189.6	196.9	199.1	201.8	b	196.4
90A3852	Female	0 ppm	A	192.2	190.9	187.9	195.1	197.0	200.7	b	a
90A3853	Female	0 ppm	A	185.4	189.2	184.2	190.0	192.7	189.4	b	196.1
90A3854	Female	0 ppm	A	182.2	182.5	177.7	189.1	188.2	191.1	b	a
90A3855	Female	0 ppm	B	186.1	179.7	185.9	192.9	196.0	197.9	192.8	a
90A3856	Female	0 ppm	B	188.1	180.1	185.8	188.8	191.9	188.4	188.6	a
90A3857	Female	0 ppm	B	181.2	173.7	179.8	183.2	183.7	185.4	184.7	a
90A3858	Female	0 ppm	B	189.1	190.7	184.4	189.7	190.9	184.3	a	a
90A3859	Female	0 ppm	B	194.4	191.2	192.1	190.1	189.7	195.9	194.0	a
90A3860	Female	0 ppm	B	190.7	184.7	182.6	185.0	186.5	181.4	182.6	189.4
90A3861	Female	0 ppm	B	176.9	181.1	178.2	180.3	184.4	180.0	176.7	184.9
Mean				188.4	184.9	185.6	190.9	193.0	191.5	186.6	196.1
SD				6.3	6.2	5.6	6.2	6.9	8.0	6.6	7.9
N				14	14	14	14	14	14	6	7
90A3862	Female	200 ppm	A	180.3	178.8	182.8	182.8	187.9	186.7	b	a
90A3863	Female	200 ppm	A	189.0	187.0	187.5	189.1	191.6	190.0	b	198.5
90A3864	Female	200 ppm	A	188.8	183.9	187.5	196.2	188.6	185.4	b	a
90A3865	Female	200 ppm	A	186.0	188.8	184.1	185.1	187.9	186.8	b	a
90A3866	Female	200 ppm	A	189.7	192.9	a	a	a	a	a	a
90A3867	Female	200 ppm	A	187.6	189.2	183.2	190.3	198.2	197.0	b	197.9
90A3868	Female	200 ppm	A	179.1	179.6	175.1	182.4	186.4	186.2	b	185.4
90A3869	Female	200 ppm	B	187.0	185.2	189.1	195.8	199.5	191.7	191.8	a
90A3870	Female	200 ppm	B	183.5	182.6	186.1	186.3	189.2	193.6	193.1	193.9
90A3871	Female	200 ppm	B	183.9	181.8	181.5	184.7	191.4	193.5	a	a
90A3872	Female	200 ppm	B	182.2	184.6	177.7	180.5	180.7	182.7	183.1	188.7
90A3873	Female	200 ppm	B	188.4	188.6	183.6	189.5	196.2	193.5	184.7	198.8
90A3874	Female	200 ppm	B	180.8	179.8	175.9	183.6	185.0	186.9	184.9	189.8
90A3875	Female	200 ppm	B	188.8	188.3	183.7	192.4	194.4	193.9	193.0	a
Mean				185.4	185.1	182.9	187.6	190.5	189.8	188.4	193.3
SD				3.7	4.2	4.4	5.1	5.4	4.3	4.7	5.4
N				14	14	13	13	13	13	6	7

^aAnimal died;^bData not collected.

Appendix D, continued: Body Weights

ID	Sex	Conc	Group	Test Day							
				58	65	72	79	86	93	99	128
90A3876	Female	630 ppm	A	195.7	187.4	193.3	195.6	200.5	194.5	b	206.7
90A3877	Female	630 ppm	A	196.0	186.4	192.4	207.3	208.7	206.1	b	a
90A3878	Female	630 ppm	A	185.1	179.4	179.1	181.2	183.7	184.5	b	190.1
90A3879	Female	630 ppm	A	193.3	196.8	187.8	196.2	200.0	198.9	b	205.1
90A3880	Female	630 ppm	A	176.1	177.6	175.7	179.9	184.1	183.5	b	a
90A3881	Female	630 ppm	A	194.2	193.6	190.5	197.4	199.6	198.0	b	195.3
90A3882	Female	630 ppm	A	188.0	189.0	186.5	198.4	200.0	201.1	b	a
90A3883	Female	630 ppm	B	174.2	170.6	176.8	179.0	182.5	180.3	179.5	a
90A3884	Female	630 ppm	B	187.5	187.1	189.6	191.6	199.7	197.8	183.5	200.6
90A3885	Female	630 ppm	B	169.5	172.3	178.7	181.5	187.7	186.0	179.8	a
90A3886	Female	630 ppm	B	180.1	182.3	174.3	179.8	186.1	181.1	177.7	a
90A3887	Female	630 ppm	B	184.5	185.3	187.5	186.8	197.6	193.7	185.2	196.1
90A3888	Female	630 ppm	B	191.6	191.6	194.5	196.6	202.2	199.5	195.9	205.9
90A3889	Female	630 ppm	B	192.1	197.3	191.2	195.3	202.3	201.4	199.2	196.9
Mean				186.3	185.5	185.6	190.5	195.3	193.3	185.8	199.6
SD				8.5	8.3	7.1	9.0	8.6	8.5	8.5	6.0
N				14	14	14	14	14	14	7	8
90A3890	Female	2000 ppm	A	185.7	179.9	190.3	197.2	200.1	196.9	b	198.2
90A3891	Female	2000 ppm	A	194.1	185.5	188.0	193.1	198.2	192.9	b	a
90A3892	Female	2000 ppm	A	183.2	183.5	186.4	188.5	195.2	191.6	b	a
90A3893	Female	2000 ppm	A	196.4	199.2	192.3	199.1	199.4	200.7	b	a
90A3894	Female	2000 ppm	A	185.0	181.7	a	a	a	a	b	a
90A3895	Female	2000 ppm	A	209.4	205.0	196.8	204.3	206.6	213.5	b	199.4
90A3896	Female	2000 ppm	A	193.2	197.6	a	a	a	a	b	a
90A3897	Female	2000 ppm	B	183.2	178.4	186.0	191.2	191.5	188.4	181.4	a
90A3898	Female	2000 ppm	B	182.1	176.2	182.4	186.6	190.5	187.7	189.0	192.6
90A3899	Female	2000 ppm	B	191.0	185.1	188.0	186.6	195.7	194.5	187.0	194.7
90A3900	Female	2000 ppm	B	186.5	186.0	183.4	183.9	188.1	187.6	178.8	188.7
90A3901	Female	2000 ppm	B	184.1	181.7	182.5	186.0	193.2	191.3	185.8	a
90A3902	Female	2000 ppm	B	188.3	188.8	184.6	189.8	197.1	193.2	187.5	190.5
90A3903	Female	2000 ppm	B	197.6	193.7	189.1	193.4	197.6	194.3	183.9	195.9
Mean				190.0	187.3	187.5	191.6	196.1	194.4	184.8	192.5
SD				7.6	8.5	4.3	6.1	5.0	7.1	3.6	3.0
N				14	14	12	12	12	12	7	7

^aAnimal died;^bData not collected.

1,1,1-T subchronic neurotoxicity

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Appendix E: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3792

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3793

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030884

SL 030885

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3794

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

* INDICATES ANIMAL WAS NOT INCLUDED IN EXAM; ANIMAL STATUS: SP-DEATH DAY 064

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3795

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

AUDITORY RESPONSIVENESS - DECREASED

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	P	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030886

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3796

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030887

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3797

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUROID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030888

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3798

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3799

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030890

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3800

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3801

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030892

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3802

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030893

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3803

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030894

SL 030895

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3804

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3805

SEX: MALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030896

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3806

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3807

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

868080 TS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3808

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
AUDITORY RESPONSIVENESS - DECREASED
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
P	P	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3809

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-

SL 030900

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3810

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

THIN

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3811

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030902

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3812

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030903

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3813

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

SL 030904

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030905

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3814

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3815

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030906

SL 030907

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3816

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3817

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030908

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3818

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3819

SEX: MALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030910

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3820

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3821

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030912

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3822

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3823

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

SL 030914

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3824

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3825

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030916

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3826

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3827

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

* INDICATES ANIMAL WAS NOT INCLUDED IN EXAM; ANIMAL STATUS: SP-DEATH DAY 063

SL 030918

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3828

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030919

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3829

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030920

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3830

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030921

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3831

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030922

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3832

SEX: MALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030923

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3833
SEX: MALE
SPECIES: RAT
CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030924

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

Study ID: K-001716-091

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3834

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

RESPIRATION SLOW

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	P	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3835

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030926

SL 030927

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

Study ID: K-001716-091

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3836

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUROID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3837

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030928

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3838

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3839

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030930

SL 030931

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3840

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3841

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030932

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3842

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

PAPULES, MUZZLE, RIGHT

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
P	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3843

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

INDIVIDUAL ANIMAL OBSERVATIONS

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030934

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3844

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3845

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030936

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3846
SEX: MALE
SPECIES: RAT
CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

* INDICATES ANIMAL WAS NOT INCLUDED IN EXAM; ANIMAL STATUS: SP-DEATH DAY 059

SL 030937

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3847

SEX: MALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030938

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3848

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030939

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3849

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3850

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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SL 030941

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3851

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3852

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

EXCESSIVE CHROMODACYORRHEA, LEFT

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

AUDITORY RESPONSIVENESS - DECREASED

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	P
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	P	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030943

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3853
SEX: FEMALE
SPECIES: RAT
CONC: 0 PPM
OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030944

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3854

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030945

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3855

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3856

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
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-	-	-	-
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-	-	-	-
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-	-	-	-
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-	-	-	-
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P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030947

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3857

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-----	-----	-----	-----
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3858

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030949

SL 030950

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3859

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3860

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
AUDITORY RESPONSIVENESS - DECREASED
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	P	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030951

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3861

SEX: FEMALE

SPECIES: RAT

CONC: 0 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030952

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3862

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030953

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3863
SEX: FEMALE
SPECIES: RAT
CONC: 200 PPM
OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030954

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3864

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL
030955

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3865

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3866

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

* INDICATES ANIMAL WAS NOT INCLUDED IN EXAM; ANIMAL STATUS: SP-DEATH DAY 066

SL 030957

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3867

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

EXCESSIVE CHROMODACYORRHEA, RIGHT

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	P
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3868

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

656080 SL 030959

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3869

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030960

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3870

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030961

SL 030962

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3871

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

EXCESSIVE CHROMODACYORRHEA, BILATERAL

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	P
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3872

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030963

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

FUNCTIONAL OBSERVATIONAL BATTERY

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3873

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3874

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030965

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3875

SEX: FEMALE

SPECIES: RAT

CONC: 200 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3876
SEX: FEMALE
SPECIES: RAT
CONC: 630 PPM
OBSERVATION(S)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030967

SL 030968

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3877
SEX: FEMALE
SPECIES: RAT
CONC: 630 PPM
OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
AUDITORY RESPONSIVENESS - DECREASED
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	P
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3878

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030969

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3879

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

AGGRESSIVE

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
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-	-	-	P
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3880

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030971

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3881
SEX: FEMALE
SPECIES: RAT
CONC: 630 PPM
OBSERVATION(S)

DAY -04	MONTH 001	MONTH 002	MONTH 003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030972

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3882

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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-	-	-	-
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

SL 030973

INDICATES THE OBSERVATION WAS PRESENT
INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3883

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030974

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3884

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030975

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3885
SEX: FEMALE
SPECIES: RAT
CONC: 630 PPM
OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030976

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3886

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030977

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3887

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3888

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030979

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3889

SEX: FEMALE

SPECIES: RAT

CONC: 630 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

EXCESSIVE CHROMODACYORRHEA, LEFT

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	P
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3890

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030981

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3891

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030982

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3892
SEX: FEMALE
SPECIES: RAT
CONC: 2000 PPM
OBSERVATION(S)

	DAY -04	MONTH 001	MONTH 002	MONTH 003
EYES (PUPIL SIZE, LACRIMATION, ETC.)	-	-	-	-
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)	-	-	-	-
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)	-	-	-	-
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)	-	-	-	-
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)	-	-	-	-
SKIN, FUR AND MUCOUS MEMBRANES	-	-	-	-
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)	-	-	-	-
DISPOSITION (MISSING, MORIBUND, ETC.)	-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

SL 030983

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3893

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT
- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3894

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

* INDICATES ANIMAL WAS NOT INCLUDED IN EXAM; ANIMAL STATUS: SP-DEATH DAY 066

SL 030985

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3895

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030986

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3896

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*
-	-	-	*

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

* INDICATES ANIMAL WAS NOT INCLUDED IN EXAM; ANIMAL STATUS: SP-DEATH DAY 067

SL 030987

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3897

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3898

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030989

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3899

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3900

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030991 166080

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3901

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

1,1,1-T subchronic neurotoxicity

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3902

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)

FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)

GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)

MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)

RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)

SKIN, FUR AND MUCOUS MEMBRANES

SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)

DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

SL 030993

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company

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Appendix E, continued: Functional Observational Battery

INDIVIDUAL ANIMAL OBSERVATIONS

ANIMAL ID: 90A3903

SEX: FEMALE

SPECIES: RAT

CONC: 2000 PPM

OBSERVATION(S)

EYES (PUPIL SIZE, LACRIMATION, ETC.)
FECES AND URINE (DECREASED, DARK, MUCOID, REDDISH, ETC.)
GENERAL (SALIVATION, OBESE, NASAL DISCHARGE, ETC.)
MOVEMENT/BEHAVIOR (INCOORD., MUSC. TONE, AGGRESSIVE, ETC.)
RESPIRATION (DEEP, NOISY, SNEEZE, ETC.)
SKIN, FUR AND MUCOUS MEMBRANES
SENSORY RESPONSIVENESS (TOUCH, AUDITORY, NOCICEPTIVE, VISUAL)
DISPOSITION (MISSING, MORIBUND, ETC.)

DAY	MONTH	MONTH	MONTH
-04	001	002	003

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

P INDICATES THE OBSERVATION WAS PRESENT

- INDICATES NO REMARKABLE OBSERVATIONS

Appendix F: Grip Performance Data

Hindlimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3792	Male	A	0 ppm	570	570	550	500
90A3793	Male	A	0 ppm	535	700	560	710
90A3794	Male	A	0 ppm	390	550	710	a
90A3795	Male	A	0 ppm	570	550	440	650
90A3796	Male	A	0 ppm	430	450	600	610
90A3797	Male	A	0 ppm	620	650	680	720
90A3798	Male	A	0 ppm	560	560	560	730
90A3799	Male	B	0 ppm	520	580	570	590
90A3800	Male	B	0 ppm	425	475	635	610
90A3801	Male	B	0 ppm	500	510	630	b
90A3802	Male	B	0 ppm	380	560	635	585
90A3803	Male	B	0 ppm	530	580	635	650
90A3804	Male	B	0 ppm	515	450	630	650
90A3805	Male	B	0 ppm	660	720	595	750
90A3806	Male	A	200 ppm	500	455	405	555
90A3807	Male	A	200 ppm	470	390	540	610
90A3808	Male	A	200 ppm	510	630	620	850
90A3809	Male	A	200 ppm	540	485	640	670
90A3810	Male	A	200 ppm	610	625	700	670
90A3811	Male	A	200 ppm	565	580	480	730
90A3812	Male	A	200 ppm	540	530	720	810
90A3813	Male	B	200 ppm	485	550	435	480
90A3814	Male	B	200 ppm	500	490	635	450
90A3815	Male	B	200 ppm	565	640	630	700
90A3816	Male	B	200 ppm	660	660	805	b
90A3817	Male	B	200 ppm	545	620	715	680
90A3818	Male	B	200 ppm	385	630	680	440
90A3819	Male	B	200 ppm	355	575	600	580
90A3820	Male	A	630 ppm	550	550	730	750
90A3821	Male	A	630 ppm	620	640	540	810
90A3822	Male	A	630 ppm	530	600	600	780
90A3823	Male	A	630 ppm	600	610	750	660
90A3824	Male	A	630 ppm	450	490	590	660

^aAnimal died prior to testing; ^bMissing data.

Appendix F, continued: Grip Performance Data

Hindlimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3825	Male	A	630 ppm	615	580	660	590
90A3826	Male	A	630 ppm	530	595	680	595
90A3827	Male	B	630 ppm	445	500	560	a
90A3828	Male	B	630 ppm	650	520	740	750
90A3829	Male	B	630 ppm	700	670	530	800
90A3830	Male	B	630 ppm	505	710	705	650
90A3831	Male	B	630 ppm	545	640	620	660
90A3832	Male	B	630 ppm	430	470	430	540
90A3833	Male	B	630 ppm	635	610	735	830
90A3834	Male	A	2000 ppm	600	520	610	790
90A3835	Male	A	2000 ppm	695	510	450	670
90A3836	Male	A	2000 ppm	410	630	685	630
90A3837	Male	A	2000 ppm	525	590	720	840
90A3838	Male	A	2000 ppm	450	510	640	590
90A3839	Male	A	2000 ppm	600	560	745	600
90A3840	Male	A	2000 ppm	540	550	610	640
90A3841	Male	B	2000 ppm	670	625	635	670
90A3842	Male	B	2000 ppm	595	620	820	760
90A3843	Male	B	2000 ppm	610	530	650	750
90A3844	Male	B	2000 ppm	510	450	580	630
90A3845	Male	B	2000 ppm	400	540	645	450
90A3846	Male	B	2000 ppm	615	600	675	a
90A3847	Male	B	2000 ppm	550	530	680	490
90A3848	Female	A	0 ppm	450	485	490	535
90A3849	Female	A	0 ppm	250	280	410	430
90A3850	Female	A	0 ppm	350	400	410	420
90A3851	Female	A	0 ppm	340	270	430	570
90A3852	Female	A	0 ppm	290	370	390	370
90A3853	Female	A	0 ppm	310	455	375	560
90A3854	Female	A	0 ppm	470	400	410	530
90A3855	Female	B	0 ppm	345	330	510	370
90A3856	Female	B	0 ppm	400	500	600	600
90A3857	Female	B	0 ppm	320	400	245	510

^aAnimal died prior to testing.

Appendix F, continued: Grip Performance Data

Hindlimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3858	Female	B	0 ppm	340	460	380	a
90A3859	Female	B	0 ppm	315	325	395	400
90A3860	Female	B	0 ppm	240	445	385	560
90A3861	Female	B	0 ppm	350	365	440	380
90A3862	Female	A	200 ppm	420	365	440	570
90A3863	Female	A	200 ppm	410	470	470	630
90A3864	Female	A	200 ppm	440	480	550	500
90A3865	Female	A	200 ppm	215	360	235	425
90A3866	Female	A	200 ppm	380	320	380	a
90A3867	Female	A	200 ppm	315	385	450	440
90A3868	Female	A	200 ppm	300	400	260	400
90A3869	Female	B	200 ppm	390	360	310	495
90A3870	Female	B	200 ppm	315	265	305	430
90A3871	Female	B	200 ppm	250	385	420	a
90A3872	Female	B	200 ppm	280	435	445	550
90A3873	Female	B	200 ppm	300	450	470	300
90A3874	Female	B	200 ppm	335	330	275	345
90A3875	Female	B	200 ppm	460	410	320	410
90A3876	Female	A	630 ppm	305	400	450	530
90A3877	Female	A	630 ppm	290	400	270	480
90A3878	Female	A	630 ppm	230	300	355	380
90A3879	Female	A	630 ppm	265	310	315	430
90A3880	Female	A	630 ppm	300	330	450	440
90A3881	Female	A	630 ppm	400	395	500	500
90A3882	Female	A	630 ppm	300	330	260	485
90A3883	Female	B	630 ppm	240	340	300	395
90A3884	Female	B	630 ppm	325	365	480	310
90A3885	Female	B	630 ppm	300	410	450	430
90A3886	Female	B	630 ppm	285	310	260	360
90A3887	Female	B	630 ppm	420	340	420	530
90A3888	Female	B	630 ppm	320	340	500	455
90A3889	Female	B	630 ppm	190	290	330	540
90A3890	Female	A	2000 ppm	320	490	305	565

^aAnimal died prior to testing.

SL 030997

Appendix F, continued: Grip Performance Data

Hindlimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3891	Female	A	2000 ppm	300	420	335	450
90A3892	Female	A	2000 ppm	410	265	320	480
90A3893	Female	A	2000 ppm	345	335	345	600
90A3894	Female	A	2000 ppm	400	265	220	a
90A3895	Female	A	2000 ppm	450	375	410	460
90A3896	Female	A	2000 ppm	330	430	380	a
90A3897	Female	B	2000 ppm	215	250	325	590
90A3898	Female	B	2000 ppm	355	360	360	400
90A3899	Female	B	2000 ppm	370	350	330	320
90A3900	Female	B	2000 ppm	340	370	310	370
90A3901	Female	B	2000 ppm	315	380	250	510
90A3902	Female	B	2000 ppm	380	315	400	420
90A3903	Female	B	2000 ppm	375	335	400	355

^aAnimal died prior to testing.

Appendix F, continued: Grip Performance Data

Forelimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3792	Male	A	0 ppm	845	640	480	540
90A3793	Male	A	0 ppm	810	700	690	720
90A3794	Male	A	0 ppm	670	880	660	a
90A3795	Male	A	0 ppm	750	770	665	630
90A3796	Male	A	0 ppm	840	690	670	770
90A3797	Male	A	0 ppm	670	620	735	730
90A3798	Male	A	0 ppm	620	600	655	710
90A3799	Male	B	0 ppm	610	745	845	600
90A3800	Male	B	0 ppm	650	630	740	680
90A3801	Male	B	0 ppm	750	730	730	b
90A3802	Male	B	0 ppm	580	790	665	660
90A3803	Male	B	0 ppm	620	660	700	650
90A3804	Male	B	0 ppm	840	710	715	640
90A3805	Male	B	0 ppm	945	905	745	870
90A3806	Male	A	200 ppm	810	730	735	555
90A3807	Male	A	200 ppm	900	630	715	565
90A3808	Male	A	200 ppm	695	700	540	750
90A3809	Male	A	200 ppm	800	680	675	730
90A3810	Male	A	200 ppm	760	555	595	780
90A3811	Male	A	200 ppm	795	700	650	580
90A3812	Male	A	200 ppm	900	720	645	650
90A3813	Male	B	200 ppm	760	670	670	760
90A3814	Male	B	200 ppm	710	795	840	710
90A3815	Male	B	200 ppm	950	720	600	710
90A3816	Male	B	200 ppm	870	715	670	a
90A3817	Male	B	200 ppm	830	770	770	810
90A3818	Male	B	200 ppm	600	680	810	545
90A3819	Male	B	200 ppm	710	710	655	550
90A3820	Male	A	630 ppm	830	910	635	725
90A3821	Male	A	630 ppm	480	605	630	580
90A3822	Male	A	630 ppm	795	670	670	630
90A3823	Male	A	630 ppm	885	700	790	800
90A3824	Male	A	630 ppm	710	715	695	730

^aAnimal died prior to testing; ^bMissing data.

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Appendix F, continued: Grip Performance Data

Forelimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3825	Male	A	630 ppm	775	710	820	630
90A3826	Male	A	630 ppm	655	820	810	590
90A3827	Male	B	630 ppm	650	815	660	a
90A3828	Male	B	630 ppm	950	880	835	865
90A3829	Male	B	630 ppm	850	590	630	490
90A3830	Male	B	630 ppm	695	900	690	740
90A3831	Male	B	630 ppm	850	680	710	860
90A3832	Male	B	630 ppm	645	670	650	580
90A3833	Male	B	630 ppm	990	835	670	640
90A3834	Male	A	2000 ppm	870	685	570	530
90A3835	Male	A	2000 ppm	600	670	820	570
90A3836	Male	A	2000 ppm	850	670	600	510
90A3837	Male	A	2000 ppm	700	655	700	590
90A3838	Male	A	2000 ppm	650	770	560	860
90A3839	Male	A	2000 ppm	910	760	720	400
90A3840	Male	A	2000 ppm	750	865	810	625
90A3841	Male	B	2000 ppm	650	670	530	560
90A3842	Male	B	2000 ppm	725	610	650	780
90A3843	Male	B	2000 ppm	620	620	495	560
90A3844	Male	B	2000 ppm	700	745	780	930
90A3845	Male	B	2000 ppm	775	640	700	600
90A3846	Male	B	2000 ppm	790	525	720	a
90A3847	Male	B	2000 ppm	670	675	730	540
90A3848	Female	A	0 ppm	755	960	530	700
90A3849	Female	A	0 ppm	550	480	590	620
90A3850	Female	A	0 ppm	640	590	610	585
90A3851	Female	A	0 ppm	600	590	550	580
90A3852	Female	A	0 ppm	495	485	580	560
90A3853	Female	A	0 ppm	635	780	350	570
90A3854	Female	A	0 ppm	590	485	500	540
90A3855	Female	B	0 ppm	535	610	530	580
90A3856	Female	B	0 ppm	630	680	550	640
90A3857	Female	B	0 ppm	520	570	580	580

^aAnimal died prior to testing.

Appendix F, continued: Grip Performance Data

Forelimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3858	Female	B	0 ppm	555	580	460	a
90A3861	Female	B	0 ppm	610	600	650	490
90A3862	Female	A	200 ppm	660	590	620	560
90A3863	Female	A	200 ppm	610	620	480	730
90A3864	Female	A	200 ppm	660	725	545	625
90A3865	Female	A	200 ppm	660	620	540	450
90A3866	Female	A	200 ppm	700	730	530	a
90A3867	Female	A	200 ppm	530	715	485	550
90A3868	Female	A	200 ppm	700	695	655	550
90A3869	Female	B	200 ppm	565	540	550	575
90A3870	Female	B	200 ppm	630	620	470	460
90A3871	Female	B	200 ppm	515	620	565	a
90A3872	Female	B	200 ppm	670	655	590	445
90A3873	Female	B	200 ppm	620	610	530	530
90A3874	Female	B	200 ppm	465	580	485	420
90A3875	Female	B	200 ppm	680	720	550	600
90A3876	Female	A	630 ppm	620	485	545	640
90A3877	Female	A	630 ppm	580	680	550	590
90A3878	Female	A	630 ppm	690	505	440	460
90A3879	Female	A	630 ppm	500	500	520	510
90A3880	Female	A	630 ppm	640	560	610	530
90A3881	Female	A	630 ppm	760	650	550	745
90A3882	Female	A	630 ppm	620	520	565	545
90A3883	Female	B	630 ppm	635	750	650	465
90A3884	Female	B	630 ppm	640	580	550	380
90A3885	Female	B	630 ppm	525	635	535	460
90A3886	Female	B	630 ppm	600	550	560	435
90A3887	Female	B	630 ppm	565	740	400	460
90A3888	Female	B	630 ppm	530	650	560	550
90A3889	Female	B	630 ppm	530	545	510	430
90A3890	Female	A	2000 ppm	590	510	525	620
90A3891	Female	A	2000 ppm	515	565	590	570
90A3892	Female	A	2000 ppm	660	615	580	490

^aAnimal died prior to testing.

Appendix F, continued: Grip Performance Data

Forelimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>PreExp</u>	<u>Month 1</u>	<u>Month 2</u>	<u>Month 3</u>
90A3893	Female	A	2000 ppm	610	675	600	560
90A3894	Female	A	2000 ppm	560	590	425	a
90A3895	Female	A	2000 ppm	560	550	545	390
90A3896	Female	A	2000 ppm	740	345	475	a
90A3897	Female	B	2000 ppm	400	585	580	440
90A3898	Female	B	2000 ppm	505	625	465	330
90A3899	Female	B	2000 ppm	485	520	400	380
90A3900	Female	B	2000 ppm	560	655	530	495
90A3901	Female	B	2000 ppm	585	610	300	320
90A3902	Female	B	2000 ppm	610	760	530	515
90A3903	Female	B	2000 ppm	520	590	465	500

^aAnimal died prior to testing.

Appendix F, continued: Grip Performance Data

Post Exposure Body Wt., Hindlimb and Forelimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>Body Wt</u>	<u>Hindlimb</u>	<u>Forelimb</u>
90A3792	Male	A	0 ppm	344.6	735	615
90A3795	Male	A	0 ppm	349.7	1040	830
90A3797	Male	A	0 ppm	342.5	1020	750
90A3799	Male	B	0 ppm	396.0	1150	565
90A3800	Male	B	0 ppm	353.4	740	545
90A3802	Male	B	0 ppm	336.9	1215	800
90A3803	Male	B	0 ppm	374.6	740	605
90A3806	Male	A	200 ppm	411.5	785	555
90A3808	Male	A	200 ppm	367.5	865	495
90A3809	Male	A	200 ppm	351.1	940	680
90A3812	Male	A	200 ppm	388.2	940	670
90A3815	Male	B	200 ppm	354.9	1110	735
90A3817	Male	B	200 ppm	331.6	975	895
90A3818	Male	B	200 ppm	347.3	1065	650
90A3820	Male	A	630 ppm	362.6	880	640
90A3823	Male	A	630 ppm	378.2	1015	600
90A3824	Male	A	630 ppm	373.6	970	490
90A3828	Male	B	630 ppm	397.5	1405	745
90A3829	Male	B	630 ppm	371.0	835	765
90A3832	Male	B	630 ppm	372.7	700	370
90A3834	Male	A	2000 ppm	368.6	740	700
90A3835	Male	A	2000 ppm	380.0	1005	560
90A3840	Male	A	2000 ppm	291.3	780	415
90A3842	Male	B	2000 ppm	390.0	680	675
90A3843	Male	B	2000 ppm	315.9	940	650
90A3847	Male	B	2000 ppm	362.1	745	560
90A3848	Female	A	0 ppm	194.1	1025	400
90A3849	Female	A	0 ppm	204.5	585	460
90A3850	Female	A	0 ppm	207.4	655	340
90A3851	Female	A	0 ppm	196.4	625	330
90A3853	Female	A	0 ppm	196.1	830	590
90A3860	Female	B	0 ppm	189.4	965	505
90A3861	Female	B	0 ppm	184.9	740	360
90A3863	Female	A	200 ppm	198.5	800	475
90A3867	Female	A	200 ppm	197.9	650	310
90A3868	Female	A	200 ppm	185.4	575	400

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Appendix F, continued: Grip Performance Data

Post Exposure Body Wt., Hindlimb and Forelimb

<u>ID</u>	<u>Sex</u>	<u>Group</u>	<u>Conc</u>	<u>Body Wt</u>	<u>Hindlimb</u>	<u>Forelimb</u>
90A3870	Female	B	200 ppm	193.9	640	400
90A3872	Female	B	200 ppm	188.7	790	455
90A3873	Female	B	200 ppm	198.8	720	310
90A3874	Female	B	200 ppm	189.8	350	385
90A3876	Female	A	630 ppm	206.7	705	555
90A3878	Female	A	630 ppm	190.1	520	310
90A3879	Female	A	630 ppm	205.1	450	270
90A3881	Female	A	630 ppm	195.3	705	355
90A3884	Female	B	630 ppm	200.6	600	245
90A3887	Female	B	630 ppm	196.1	425	400
90A3888	Female	B	630 ppm	205.9	710	650
90A3889	Female	B	630 ppm	196.9	550	310
90A3890	Female	A	2000 ppm	198.2	750	450
90A3895	Female	A	2000 ppm	199.4	600	520
90A3898	Female	B	2000 ppm	192.6	540	425
90A3899	Female	B	2000 ppm	194.7	340	400
90A3900	Female	B	2000 ppm	188.7	510	400
90A3902	Female	B	2000 ppm	190.5	570	360
90A3903	Female	B	2000 ppm	195.9	565	295

Appendix G: Temperature Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FEPT</u>	<u>ABRCT</u>	<u>ABRTT</u>	<u>SEPT</u>
90A3792	Male	A	0 ppm	38.7	38.4	38.4	38.5
90A3793	Male	A	0 ppm	37.5	37.2	37.2	37.7
90A3795	Male	A	0 ppm	36.5	36.7	36.7	36.6
90A3796	Male	A	0 ppm	38.3	38.8	38.7	38.7
90A3797	Male	A	0 ppm	37.4	37.6	37.6	37.6
90A3798	Male	A	0 ppm	37.6	37.9	37.9	37.9
90A3799	Male	B	0 ppm	38.4	38.0	38.0	37.8
90A3800	Male	B	0 ppm	37.2	37.8	37.8	37.8
90A3802	Male	B	0 ppm	38.0	37.9	37.9	37.8
90A3803	Male	B	0 ppm	37.4	37.5	37.5	37.2
90A3804	Male	B	0 ppm	37.0	37.6	37.4	37.4
90A3805	Male	B	0 ppm	37.5	38.2	38.2	38.1
90A3806	Male	A	200 ppm	37.6	37.3	37.3	37.2
90A3807	Male	A	200 ppm	38.0	38.0	38.0	38.0
90A3808	Male	A	200 ppm	37.5	37.9	37.9	37.9
90A3809	Male	A	200 ppm	38.4	38.6	38.5	38.5
90A3810	Male	A	200 ppm	37.5	37.6	37.6	37.6
90A3811	Male	A	200 ppm	38.4	38.5	38.6	38.5
90A3813	Male	B	200 ppm	38.8	38.7	38.7	38.6
90A3814	Male	B	200 ppm	38.5	38.4	38.4	38.3
90A3815	Male	B	200 ppm	37.0	37.8	37.9	37.9
90A3817	Male	B	200 ppm	37.5	37.3	37.3	37.4
90A3818	Male	B	200 ppm	39.0	38.8	38.8	38.9
90A3819	Male	B	200 ppm	38.6	38.5	38.5	38.5
90A3820	Male	A	630 ppm	37.9	37.7	37.7	37.6
90A3821	Male	A	630 ppm	38.0	37.8	37.7	37.7
90A3822	Male	A	630 ppm	37.0	38.0	38.1	38.2
90A3823	Male	A	630 ppm	38.0	38.4	38.4	38.4
90A3824	Male	A	630 ppm	37.1	37.7	37.9	37.9
90A3825	Male	A	630 ppm	38.5	38.4	38.4	38.3
90A3828	Male	B	630 ppm	38.0	38.3	38.3	38.3
90A3829	Male	B	630 ppm	37.9	37.6	37.6	37.4

ID Animal identification
 CONC Exposure concentration
 FEPT Body temperature (°C) before FEP recording
 ABRCT Body temperature (°C) before ABR click recording
 ABRTT Body temperature (°C) before ABR tone recording
 SEPT Body temperature (°C) before SEP recording

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Appendix G: Temperature Data (cont.)

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FEPT</u>	<u>ABRCT</u>	<u>ABRTT</u>	<u>SEPT</u>
90A3830	Male	B	630 ppm	38.1	38.1	38.1	38.0
90A3831	Male	B	630 ppm	38.4	38.7	38.7	38.6
90A3832	Male	B	630 ppm	37.4	37.7	37.7	37.6
90A3833	Male	B	630 ppm	38.0	37.8	37.8	37.8
90A3834	Male	A	2000 ppm	37.5	37.7	37.7	37.7
90A3837	Male	A	2000 ppm	38.1	38.7	38.7	38.7
90A3838	Male	A	2000 ppm	38.2	37.9	37.9	37.9
90A3839	Male	A	2000 ppm	36.9	37.7	37.6	37.5
90A3840	Male	A	2000 ppm	38.4	39.0	38.9	39.0
90A3841	Male	B	2000 ppm	38.4	38.6	38.5	38.4
90A3842	Male	B	2000 ppm	38.0	38.4	38.5	38.4
90A3843	Male	B	2000 ppm	37.5	37.9	37.9	37.9
90A3844	Male	B	2000 ppm	37.8	38.2	38.3	38.3
90A3845	Male	B	2000 ppm	37.6	38.5	38.4	38.4
90A3847	Male	B	2000 ppm	37.5	37.6	37.6	37.6
90A3848	Female	A	0 ppm	37.6	37.7	37.7	37.7
90A3849	Female	A	0 ppm	38.4	38.0	38.0	37.8
90A3850	Female	A	0 ppm	37.8	38.5	38.4	38.3
90A3851	Female	A	0 ppm	38.6	39.0	39.0	37.9
90A3852	Female	A	0 ppm	37.4	37.7	37.7	37.5
90A3853	Female	A	0 ppm	37.8	37.7	37.7	37.6
90A3855	Female	B	0 ppm	37.5	37.2	37.1	37.3
90A3856	Female	B	0 ppm	38.6	39.0	39.0	39.0
90A3857	Female	B	0 ppm	37.2	37.9	38.0	38.0
90A3859	Female	B	0 ppm	38.2	38.5	38.5	38.4
90A3860	Female	B	0 ppm	37.6	37.3	37.2	37.2
90A3861	Female	B	0 ppm	37.7	38.4	38.4	38.3
90A3862	Female	A	200 ppm	37.7	38.0	38.0	37.9
90A3863	Female	A	200 ppm	38.0	37.9	37.9	37.6
90A3864	Female	A	200 ppm	38.2	38.0	38.0	37.9
90A3865	Female	A	200 ppm	38.1	38.3	38.3	38.0
90A3867	Female	A	200 ppm	37.5	37.6	37.4	37.5
90A3868	Female	A	200 ppm	38.1	38.2	38.2	38.0

ID Animal identification
 CONC Exposure concentration
 FEPT Body temperature (°C) before FEP recording
 ABRCT Body temperature (°C) before ABR click recording
 ABRTT Body temperature (°C) before ABR tone recording
 SEPT Body temperature (°C) before SEP recording

Appendix G, continued: Temperature Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FEPT</u>	<u>ABRCT</u>	<u>ABRTT</u>	<u>SEPT</u>
90A3869	Female	B	200 ppm	38.2	38.5	38.4	38.4
90A3870	Female	B	200 ppm	38.3	38.5	38.5	38.7
90A3872	Female	B	200 ppm	37.9	37.7	37.7	37.8
90A3873	Female	B	200 ppm	37.8	37.9	37.9	37.9
90A3874	Female	B	200 ppm	38.1	38.0	38.0	38.0
90A3875	Female	B	200 ppm	37.3	37.7	37.5	37.7
90A3876	Female	A	630 ppm	36.5	37.2	37.2	37.1
90A3877	Female	A	630 ppm	37.4	37.0	37.0	37.0
90A3878	Female	A	630 ppm	38.1	38.8	38.8	38.9
90A3879	Female	A	630 ppm	37.7	37.5	37.5	37.5
90A3880	Female	A	630 ppm	38.0	38.1	38.1	38.2
90A3881	Female	A	630 ppm	38.4	38.5	38.4	38.4
90A3883	Female	B	630 ppm	36.9	37.5	37.5	37.7
90A3884	Female	B	630 ppm	38.4	38.7	38.7	38.7
90A3885	Female	B	630 ppm	37.7	37.8	37.7	37.3
90A3886	Female	B	630 ppm	37.8	37.5	37.5	37.3
90A3887	Female	B	630 ppm	38.3	38.7	38.7	38.6
90A3888	Female	B	630 ppm	38.0	38.0	38.1	38.2
90A3890	Female	A	2000 ppm	a	37.5	37.2	37.4
90A3891	Female	A	2000 ppm	37.8	38.3	38.3	38.3
90A3892	Female	A	2000 ppm	37.9	37.1	38.1	38.0
90A3893	Female	A	2000 ppm	38.1	38.2	38.2	38.1
90A3895	Female	A	2000 ppm	37.4	38.0	38.0	37.9
90A3897	Female	B	2000 ppm	38.2	38.9	38.9	39.0
90A3898	Female	B	2000 ppm	38.5	38.5	38.4	38.1
90A3899	Female	B	2000 ppm	37.5	38.4	38.2	38.3
90A3900	Female	B	2000 ppm	37.9	38.0	38.0	37.9
90A3901	Female	B	2000 ppm	37.5	37.8	37.8	37.7
90A3902	Female	B	2000 ppm	37.8	37.3	37.1	37.1
90A3903	Female	B	2000 ppm	36.7	37.6	37.6	37.6

^a Temperature inadvertently not recorded

ID	Animal identification
CONC	Exposure concentration
FEPT	Body temperature (°C) before FEP recording
ABRCT	Body temperature (°C) before ABR click recording
ABRTT	Body temperature (°C) before ABR tone recording
SEPT	Body temperature (°C) before SEP recording

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Appendix G, continued: Temperature Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPT</u>	<u>CFRT</u>
90A3792	Male	A	0 ppm	25.2	38.4
90A3793	Male	A	0 ppm	25.0	37.2
90A3795	Male	A	0 ppm	25.4	36.8
90A3796	Male	A	0 ppm	25.2	38.8
90A3797	Male	A	0 ppm	24.8	37.5
90A3798	Male	A	0 ppm	24.7	37.7
90A3799	Male	B	0 ppm	24.9	38.0
90A3800	Male	B	0 ppm	25.0	37.7
90A3802	Male	B	0 ppm	24.8	38.0
90A3803	Male	B	0 ppm	25.0	37.5
90A3804	Male	B	0 ppm	25.0	37.2
90A3805	Male	B	0 ppm	25.1	38.2
90A3806	Male	A	200 ppm	25.1	37.5
90A3807	Male	A	200 ppm	25.1	38.0
90A3808	Male	A	200 ppm	25.1	37.9
90A3809	Male	A	200 ppm	25.0	38.5
90A3810	Male	A	200 ppm	24.9	38.4
90A3811	Male	A	200 ppm	25.8	38.5
90A3813	Male	B	200 ppm	25.7	38.8
90A3814	Male	B	200 ppm	24.9	38.3
90A3815	Male	B	200 ppm	25.8	37.7
90A3817	Male	B	200 ppm	25.0	37.6
90A3818	Male	B	200 ppm	24.4	38.8
90A3819	Male	B	200 ppm	24.8	38.5
90A3820	Male	A	630 ppm	25.3	37.8
90A3821	Male	A	630 ppm	26.4	38.0
90A3822	Male	A	630 ppm	25.1	38.0
90A3823	Male	A	630 ppm	25.1	38.4
90A3824	Male	A	630 ppm	24.8	37.6
90A3825	Male	A	630 ppm	25.2	38.4
90A3828	Male	B	630 ppm	25.3	38.3
90A3829	Male	B	630 ppm	25.1	37.7
90A3830	Male	B	630 ppm	25.1	38.2
90A3831	Male	B	630 ppm	25.0	38.7
90A3832	Male	B	630 ppm	25.0	37.6

ID Animal identification
 CONC Exposure concentration
 CNAPT Tail temperature (°C) before CNAP recording
 CFRT Body temperature (°C) before CFR recording

Appendix G, continued: Temperature Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPT</u>	<u>CFRT</u>
90A3833	Male	B	630 ppm	24.8	37.8
90A3834	Male	A	2000 ppm	25.1	37.5
90A3837	Male	A	2000 ppm	25.1	38.7
90A3838	Male	A	2000 ppm	25.1	37.8
90A3839	Male	A	2000 ppm	25.8	37.9
90A3840	Male	A	2000 ppm	24.6	38.9
90A3841	Male	A	2000 ppm	24.9	38.6
90A3842	Male	B	2000 ppm	24.8	38.4
90A3843	Male	B	2000 ppm	25.0	37.8
90A3844	Male	B	2000 ppm	25.0	38.2
90A3845	Male	B	2000 ppm	24.9	37.4
90A3847	Male	B	2000 ppm	26.2	37.7
90A3848	Female	A	0 ppm	25.1	37.7
90A3849	Female	A	0 ppm	24.7	38.0
90A3850	Female	A	0 ppm	25.3	38.5
90A3851	Female	A	0 ppm	25.2	38.9
90A3852	Female	A	0 ppm	25.8	37.5
90A3853	Female	A	0 ppm	25.0	37.8
90A3855	Female	B	0 ppm	25.2	37.3
90A3856	Female	B	0 ppm	24.7	39.1
90A3857	Female	B	0 ppm	24.8	37.7
90A3859	Female	B	0 ppm	25.1	38.4
90A3860	Female	B	0 ppm	24.7	37.4
90A3861	Female	B	0 ppm	24.9	38.4
90A3862	Female	A	200 ppm	25.0	37.6
90A3863	Female	A	200 ppm	25.0	38.2
90A3864	Female	A	200 ppm	24.8	37.1
90A3865	Female	A	200 ppm	25.1	38.2
90A3867	Female	A	200 ppm	24.6	37.5
90A3868	Female	A	200 ppm	25.1	38.3
90A3869	Female	B	200 ppm	25.1	38.4
90A3870	Female	B	200 ppm	25.0	38.6
90A3872	Female	B	200 ppm	24.9	37.7
90A3873	Female	B	200 ppm	25.2	38.0
90A3874	Female	B	200 ppm	24.7	38.0

ID Animal identification
 CONC Exposure concentration
 CNAPT Tail temperature (°C) before CNAP recording
 CFRT Body temperature (°C) before CFR recording

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Appendix G, continued: Temperature Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPT</u>	<u>CFRT</u>
90A3875	Female	B	200 ppm	24.7	37.6
90A3876	Female	A	630 ppm	25.0	37.2
90A3877	Female	A	630 ppm	25.1	37.0
90A3878	Female	A	630 ppm	25.0	38.7
90A3879	Female	A	630 ppm	24.8	37.4
90A3880	Female	A	630 ppm	25.2	38.0
90A3881	Female	A	630 ppm	25.1	38.9
90A3883	Female	B	630 ppm	24.8	36.8
90A3884	Female	B	630 ppm	25.1	38.7
90A3885	Female	B	630 ppm	24.5	37.9
90A3886	Female	B	630 ppm	25.0	37.5
90A3887	Female	B	630 ppm	25.3	38.7
90A3888	Female	B	630 ppm	24.7	38.0
90A3890	Female	A	2000 ppm	25.0	37.9
90A3891	Female	A	2000 ppm	24.7	38.3
90A3892	Female	A	2000 ppm	25.0	38.4
90A3893	Female	A	2000 ppm	24.8	38.1
90A3895	Female	A	2000 ppm	24.8	37.7
90A3897	Female	B	2000 ppm	24.8	38.1
90A3898	Female	B	2000 ppm	24.8	38.4
90A3899	Female	B	2000 ppm	25.0	38.5
90A3900	Female	B	2000 ppm	25.0	38.2
90A3901	Female	B	2000 ppm	25.1	37.8
90A3902	Female	B	2000 ppm	24.5	37.5
90A3903	Female	B	2000 ppm	25.0	37.6

ID Animal identification
CONC Exposure concentration
CNAPT Tail temperature (°C) before CNAP recording
CFRT Body temperature (°C) before CFR recording

Appendix H: FEP-V Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FVSP</u>	<u>FVSC</u>	<u>FVSP_w</u>
90A3792	Male	A	0 ppm	4.5	0.604	19.70
90A3793	Male	A	0 ppm	-1.8	0.638	24.77
90A3795	Male	A	0 ppm	4.5	0.919	14.44
90A3796	Male	A	0 ppm	-1.2	0.877	15.92
90A3797	Male	A	0 ppm	-0.6	0.692	28.33
90A3798	Male	A	0 ppm	0.3	0.602	17.06
90A3799	Male	B	0 ppm	1.5	0.690	18.41
90A3800	Male	B	0 ppm	2.7	0.748	12.41
90A3802	Male	B	0 ppm	-2.1	0.374	24.18
90A3803	Male	B	0 ppm	0.6	0.930	12.57
90A3804	Male	B	0 ppm	1.8	0.645	12.04
90A3805	Male	B	0 ppm	-2.4	0.614	24.60
90A3806	Male	A	200 ppm	3.3	0.799	16.35
90A3807	Male	A	200 ppm	0.3	0.798	19.83
90A3808	Male	A	200 ppm	-0.6	0.627	17.83
90A3809	Male	A	200 ppm	2.1	0.714	26.58
90A3810	Male	A	200 ppm	-1.5	0.649	13.64
90A3811	Male	A	200 ppm	-1.5	0.804	32.02
90A3813	Male	B	200 ppm	-2.4	0.387	15.94
90A3814	Male	B	200 ppm	-0.6	0.441	26.40
90A3815	Male	B	200 ppm	3.0	0.613	13.01
90A3817	Male	B	200 ppm	-3.0	0.359	20.47
90A3818	Male	B	200 ppm	-2.4	0.359	37.54
90A3819	Male	B	200 ppm	-3.3	0.803	16.97
90A3820	Male	A	630 ppm	2.4	0.724	16.53
90A3821	Male	A	630 ppm	-0.9	0.842	12.83
90A3822	Male	A	630 ppm	1.5	0.830	10.31
90A3823	Male	A	630 ppm	-0.6	0.876	25.37
90A3824	Male	A	630 ppm	-2.4	0.445	15.01
90A3825	Male	A	630 ppm	-0.3	0.730	26.49
90A3828	Male	B	630 ppm	-3.0	0.578	18.12
90A3829	Male	B	630 ppm	-0.3	0.635	16.67
90A3830	Male	B	630 ppm	-1.2	0.658	20.04
90A3831	Male	B	630 ppm	-0.9	0.642	14.27

ID Animal identification
 CONC Exposure concentration
 FVSP FEP-V 35-95.1 ms, latency difference from control template
 FVSC FEP-V 35-95.1 ms, optimized cross-correlation value (r)
 FVSP_w FEP-V 35-95.1 ms, power (RMS μ V)

Appendix H, continued: FEP-V Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FVSP</u>	<u>FVSC</u>	<u>FVSPw</u>
90A3832	Male	B	630 ppm	0.6	0.881	17.40
90A3833	Male	B	630 ppm	-2.7	0.269	57.17
90A3834	Male	A	2000 ppm	0.0	0.851	17.01
90A3837	Male	A	2000 ppm	-3.6	0.788	25.47
90A3838	Male	A	2000 ppm	-2.7	0.768	23.21
90A3839	Male	A	2000 ppm	-2.4	0.841	21.78
90A3840	Male	A	2000 ppm	-5.4	0.488	33.31
90A3841	Male	B	2000 ppm	-2.7	0.086	55.08
90A3842	Male	B	2000 ppm	3.3	0.000	20.98
90A3843	Male	B	2000 ppm	4.2	0.562	17.02
90A3844	Male	B	2000 ppm	-0.6	0.831	19.14
90A3845	Male	B	2000 ppm	4.2	0.383	10.13
90A3847	Male	B	2000 ppm	1.2	0.794	11.48
90A3848	Female	A	0 ppm	5.4	0.757	23.48
90A3849	Female	A	0 ppm	0.3	0.805	50.84
90A3850	Female	A	0 ppm	-1.2	0.722	14.69
90A3851	Female	A	0 ppm	-1.8	0.902	19.08
90A3852	Female	A	0 ppm	1.8	0.958	19.10
90A3853	Female	A	0 ppm	-0.9	0.921	15.64
90A3855	Female	B	0 ppm	4.2	0.924	16.13
90A3856	Female	B	0 ppm	-3.0	0.112	40.92
90A3857	Female	B	0 ppm	7.5	0.516	22.70
90A3859	Female	B	0 ppm	0.6	0.929	9.28
90A3860	Female	B	0 ppm	-2.4	0.286	37.94
90A3861	Female	B	0 ppm	1.8	0.316	6.51
90A3862	Female	A	200 ppm	-0.3	0.718	28.14
90A3863	Female	A	200 ppm	0.3	0.941	11.14
90A3864	Female	A	200 ppm	-0.6	0.923	19.15
90A3865	Female	A	200 ppm	0.6	0.753	8.11
90A3867	Female	A	200 ppm	-2.4	0.921	15.96
90A3868	Female	A	200 ppm	-2.4	0.803	39.86
90A3869	Female	B	200 ppm	-2.1	0.881	18.47
90A3870	Female	B	200 ppm	-0.6	0.895	17.27
90A3872	Female	B	200 ppm	1.2	0.877	38.91

ID Animal identification
 CONC Exposure concentration
 FVSP FEP-V 35-95.1 ms, latency difference from control template
 FVSC FEP-V 35-95.1 ms, optimized cross-correlation value (r)
 FVSPw FEP-V 35-95.1 ms, power (RMS μ V)

Appendix H, continued: FEP-V Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FVSP</u>	<u>FVSC</u>	<u>FVSP_w</u>
90A3873	Female	B	200 ppm	-0.6	0.895	33.54
90A3874	Female	B	200 ppm	-3.3	0.581	17.08
90A3875	Female	B	200 ppm	-0.6	0.655	24.14
90A3876	Female	A	630 ppm	6.3	0.735	10.88
90A3877	Female	A	630 ppm	-0.9	0.903	19.39
90A3878	Female	A	630 ppm	-0.3	0.634	19.72
90A3879	Female	A	630 ppm	3.0	0.735	16.40
90A3880	Female	A	630 ppm	-2.1	0.959	9.66
90A3881	Female	A	630 ppm	-6.0	0.512	24.96
90A3883	Female	B	630 ppm	0.3	0.668	11.77
90A3884	Female	B	630 ppm	1.5	0.498	21.00
90A3885	Female	B	630 ppm	7.5 ^b	0.305	16.58
90A3886	Female	B	630 ppm	6.0	0.679	19.26
90A3887	Female	B	630 ppm	0.0	0.593	13.05
90A3888	Female	B	630 ppm	2.7	0.824	9.37
90A3890	Female	A	2000 ppm	0.3	0.645	33.99
90A3891	Female	A	2000 ppm	0.9	0.648	22.49
90A3892	Female	A	2000 ppm	-0.6	0.660	14.13
90A3893	Female	A	2000 ppm	-0.9	0.850	18.38
90A3895	Female	A	2000 ppm	-3.3	0.791	13.01
90A3897	Female	B	2000 ppm	-4.8	0.845	29.79
90A3898	Female	B	2000 ppm	-1.8	0.708	10.33
90A3899	Female	B	2000 ppm	4.5	0.741	28.88
90A3900	Female	B	2000 ppm	1.8	0.869	18.74
90A3901	Female	B	2000 ppm	4.2	0.579	24.33
90A3902	Female	B	2000 ppm	0.0	0.613	11.82
90A3903	Female	B	2000 ppm	0.0	0.927	10.11

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
FVSP	FEP-V 35-95.1 ms, latency difference from control template
FVSC	FEP-V 35-95.1 ms, optimized cross-correlation value (r)
FVSP _w	FEP-V 35-95.1 ms, power (RMS μ V)

Appendix H, continued: FEP-V Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FVLP</u>	<u>FVLC</u>	<u>FVLP_w</u>	<u>N3AMP</u>
90A3792	Male	A	0 ppm	16.5	0.656 ^b	18.54	29.1
90A3793	Male	A	0 ppm	-4.5	0.989	37.48	74.1
90A3795	Male	A	0 ppm	1.5	0.988	30.47	54.9
90A3796	Male	A	0 ppm	-3.0	0.966	44.60	105.8
90A3797	Male	A	0 ppm	3.0	0.992	89.96	166.0
90A3798	Male	A	0 ppm	-7.5	0.976	52.79	105.9
90A3799	Male	B	0 ppm	-19.5	0.604 ^b	25.56	53.7
90A3800	Male	B	0 ppm	3.0	0.984	41.78	78.7
90A3802	Male	B	0 ppm	-7.5	0.983	67.33	135.3
90A3803	Male	B	0 ppm	13.5	0.970	21.60	14.7
90A3804	Male	B	0 ppm	3.0	0.967	29.69	46.0
90A3805	Male	B	0 ppm	7.5	0.804	62.93	126.8
90A3806	Male	A	200 ppm	15.0	0.753	37.05	34.1
90A3807	Male	A	200 ppm	-18.0	0.760	27.36	51.5
90A3808	Male	A	200 ppm	0.0	0.962	79.18	162.4
90A3809	Male	A	200 ppm	-18.0	0.938	28.19	51.7
90A3810	Male	A	200 ppm	-9.0	0.992	39.97	94.3
90A3811	Male	A	200 ppm	-7.5	0.968	39.46	79.9
90A3813	Male	B	200 ppm	3.0	0.979	44.61	90.4
90A3814	Male	B	200 ppm	6.0	0.914	48.41	75.5
90A3815	Male	B	200 ppm	-6.0	0.982	32.38	79.5
90A3817	Male	B	200 ppm	1.5	0.978	59.50	118.0
90A3818	Male	B	200 ppm	-9.0	0.942	79.62	137.8
90A3819	Male	B	200 ppm	-1.5	0.945	33.76	65.9
90A3820	Male	A	630 ppm	-3.0	0.940	31.99	65.5
90A3821	Male	A	630 ppm	3.0	0.967	38.18	86.6
90A3822	Male	A	630 ppm	4.5	0.989	18.69	42.0
90A3823	Male	A	630 ppm	-10.5	0.989	63.09	122.7
90A3824	Male	A	630 ppm	-6.0	0.990	40.77	80.9
90A3825	Male	A	630 ppm	0.0	0.996	42.68	85.6
90A3828	Male	B	630 ppm	-3.0	0.979	44.54	77.6
90A3829	Male	B	630 ppm	3.0	0.991	58.59	118.6

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
FVLP	FEP-V 94.5-280.0 ms, latency difference from control template
FVLC	FEP-V 94.5-280.0 ms, optimized cross-correlation value (r)
FVLP _w	FEP-V 94.5-280.0 ms, power (RMS μ V)
N3AMP	N ₃ to baseline peak amplitude

Appendix H, continued: FEP-V Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FVLP</u>	<u>FVLC</u>	<u>FVLPw</u>	<u>N3AMP</u>
90A3830	Male	B	630 ppm	-3.0	0.973	66.77	137.4
90A3831	Male	B	630 ppm	-9.0	0.976	105.97	211.0
90A3832	Male	B	630 ppm	-1.5	0.957	31.42	47.8
90A3833	Male	B	630 ppm	15.0	0.871	74.54	104.6
90A3834	Male	A	2000 ppm	6.0	0.979	38.28	71.6
90A3837	Male	A	2000 ppm	3.0	0.964	68.73	122.5
90A3838	Male	A	2000 ppm	-6.0	0.968	78.43	178.9
90A3839	Male	A	2000 ppm	-7.5	0.860	14.41	22.0
90A3840	Male	A	2000 ppm	10.5	0.921	51.67	46.9
90A3841	Male	B	2000 ppm	6.0	0.936	110.95	146.7
90A3842	Male	B	2000 ppm	-3.0	0.978	74.62	139.4
90A3843	Male	B	2000 ppm	1.5	0.949	24.09	47.9
90A3844	Male	B	2000 ppm	-21.0	0.957	28.81	61.9
90A3845	Male	B	2000 ppm	16.5	0.948	32.11	51.4
90A3847	Male	B	2000 ppm	7.5	0.898	38.66	56.4
90A3848	Female	A	0 ppm	3.0	0.976	47.23	82.8
90A3849	Female	A	0 ppm	6.0	0.912	27.66	53.8
90A3850	Female	A	0 ppm	6.0	0.994	38.40	20.3
90A3851	Female	A	0 ppm	-9.0	0.960	23.81	9.0
90A3852	Female	A	0 ppm	0.0	0.984	37.12	66.7
90A3853	Female	A	0 ppm	-13.5	0.972	29.39	71.9
90A3855	Female	B	0 ppm	1.5	0.975	30.24	51.1
90A3856	Female	B	0 ppm	1.5	0.924	64.47	126.2
90A3857	Female	B	0 ppm	-6.0	0.000 ^b	19.95	0.0
90A3859	Female	B	0 ppm	-4.5	0.982	37.66	58.8
90A3860	Female	B	0 ppm	0.0	0.952	68.79	78.9
90A3861	Female	B	0 ppm	4.5	0.982	60.71	106.2
90A3862	Female	A	200 ppm	-19.5	0.431 ^b	19.52	36.1
90A3863	Female	A	200 ppm	-13.5	0.945	23.67	45.3
90A3864	Female	A	200 ppm	-12.0	0.959	49.21	89.2
90A3865	Female	A	200 ppm	-22.5	0.858	16.81	33.1

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
FVLP	FEP-V 94.5-280.0 ms, latency difference from control template
FVLC	FEP-V 94.5-280.0 ms, optimized cross-correlation value (r)
FVLPw	FEP-V 94.5-280.0 ms, power (RMS μ V)
N3AMP	N ₃ to baseline peak amplitude

Appendix H, continued: FEP-V Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>FVLP</u>	<u>FVLC</u>	<u>FVLPw</u>	<u>N3AMP</u>
90A3867	Female	A	200 ppm	-15.0	0.972	52.76	134.9
90A3868	Female	A	200 ppm	-24.0	0.364 ^b	29.79	61.1
90A3869	Female	B	200 ppm	-1.5	0.932	22.95	19.9
90A3870	Female	B	200 ppm	-16.5	0.883	27.24	41.0
90A3872	Female	B	200 ppm	-6.0	0.727	38.96	61.8
90A3873	Female	B	200 ppm	-16.5	0.925	51.10	84.1
90A3874	Female	B	200 ppm	-3.0	0.961	26.27	23.6
90A3875	Female	B	200 ppm	-7.5	0.971	55.78	122.8
90A3876	Female	A	630 ppm	18.0	0.936	13.71	22.2
90A3877	Female	A	630 ppm	-12.0	0.950	31.21	65.8
90A3878	Female	A	630 ppm	0.0	0.810	19.57	27.7
90A3879	Female	A	630 ppm	-19.5	0.695	24.34	22.9
90A3880	Female	A	630 ppm	-19.5	0.935	32.14	65.4
90A3881	Female	A	630 ppm	-4.5	0.942	46.13	68.7
90A3883	Female	B	630 ppm	-3.0	0.987	44.51	77.3
90A3884	Female	B	630 ppm	-18.0	0.912	65.80	141.4
90A3885	Female	B	630 ppm	13.5	0.797	24.69	40.8
90A3886	Female	B	630 ppm	4.5	0.907	40.43	58.8
90A3887	Female	B	630 ppm	0.0	0.988	57.94	104.6
90A3888	Female	B	630 ppm	4.5	0.982	34.72	70.1
90A3890	Female	A	2000 ppm	-18.0	0.874	52.82	113.2
90A3891	Female	A	2000 ppm	-18.0	0.894	56.15	125.2
90A3892	Female	A	2000 ppm	-6.0	0.743	29.49	50.6
90A3893	Female	A	2000 ppm	-6.0	0.972	57.07	84.3
90A3895	Female	A	2000 ppm	-7.5	0.929	28.55	52.4
90A3897	Female	B	2000 ppm	-16.5	0.971	84.66	158.3
90A3898	Female	B	2000 ppm	-4.5	0.987	47.68	78.6
90A3899	Female	B	2000 ppm	12.0	0.922	20.92	12.8
90A3900	Female	B	2000 ppm	6.0	0.980	36.60	50.4
90A3901	Female	B	2000 ppm	-13.5	0.366 ^b	18.07	20.6
90A3902	Female	B	2000 ppm	-9.0	0.989	37.59	75.4
90A3903	Female	B	2000 ppm	-12.0	0.924	19.00	28.1

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
FVLP	FEP-V 94.5-280.0 ms, latency difference from control template
FVLC	FEP-V 94.5-280.0 ms, optimized cross-correlation value (r)
FVLPw	FEP-V 94.5-280.0 ms, power (RMS μ V)
N3AMP	N3 to baseline peak amplitude

Appendix I: SEP-C Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPCSP</u>	<u>SEPCSC</u>	<u>SEPCSP_w</u>
90A3792	Male	A	0 ppm	-0.28	0.956	8.71
90A3793	Male	A	0 ppm	-0.21	0.895	5.36
90A3795	Male	A	0 ppm	0.70	0.897	4.30
90A3796	Male	A	0 ppm	-0.35	0.857	12.02
90A3797	Male	A	0 ppm	0.28	0.808	7.54
90A3798	Male	A	0 ppm	-0.14	0.920	7.65
90A3799	Male	B	0 ppm	0.56	0.807	9.11
90A3800	Male	B	0 ppm	0.42	0.961	6.98
90A3802	Male	B	0 ppm	-0.49	0.903	5.29
90A3803	Male	B	0 ppm	-0.28	0.928	6.84
90A3804	Male	B	0 ppm	0.00	0.830	5.59
90A3805	Male	B	0 ppm	-0.35	0.855	8.38
90A3806	Male	A	200 ppm	0.42	0.922	4.35
90A3807	Male	A	200 ppm	-0.28	0.955	6.35
90A3808	Male	A	200 ppm	-0.56	0.781	9.21
90A3809	Male	A	200 ppm	-0.63	0.813	10.16
90A3810	Male	A	200 ppm	-0.28	0.935	8.89
90A3811	Male	A	200 ppm	0.14	0.902	14.07
90A3813	Male	B	200 ppm	-0.21	0.972	8.76
90A3814	Male	B	200 ppm	-0.28	0.844	8.71
90A3815	Male	B	200 ppm	-0.56	0.890	6.26
90A3817	Male	B	200 ppm	-0.56	0.883	7.39
90A3818	Male	B	200 ppm	-0.42	0.927	13.22
90A3819	Male	B	200 ppm	0.21	0.856	2.87
90A3820	Male	A	630 ppm	0.70	0.778	7.44
90A3821	Male	A	630 ppm	0.07	0.848	7.16
90A3822	Male	A	630 ppm	0.28	0.827	6.08
90A3823	Male	A	630 ppm	-0.42	0.856	6.27
90A3824	Male	A	630 ppm	-0.07	0.886	9.19
90A3825	Male	A	630 ppm	0.07	0.927	7.35
90A3828	Male	B	630 ppm	-0.28	0.901	10.88
90A3829	Male	B	630 ppm	0.21	0.890	3.49
90A3830	Male	B	630 ppm	-0.35	0.824	4.81
90A3831	Male	B	630 ppm	-0.14	0.845	8.11

ID Animal identification
 CONC Exposure concentration
 SEPCSP SEP-C 4.0-18.0 ms, latency difference from control template
 SEPCSC SEP-C 4.0-18.0 ms, optimized cross-correlation value (r)
 SEPCSP_w SEP-C 4.0-18.0 ms, power (RMS μ V)

Appendix I, continued: SEP-C Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPCSP</u>	<u>SEPCSC</u>	<u>SEPCSPw</u>
90A3832	Male	B	630 ppm	0.00	0.892	7.34
90A3833	Male	B	630 ppm	0.70	0.686	4.17
90A3834	Male	A	2000 ppm	0.00	0.925	4.74
90A3837	Male	A	2000 ppm	0.70	0.804	8.70
90A3838	Male	A	2000 ppm	0.21	0.960	7.03
90A3839	Male	A	2000 ppm	0.21	0.843	6.65
90A3840	Male	A	2000 ppm	-0.63	0.596	4.85
90A3841	Male	B	2000 ppm	0.42	0.859	8.16
90A3842	Male	B	2000 ppm	0.35	0.917	16.80
90A3843	Male	B	2000 ppm	-0.14	0.730	8.14
90A3844	Male	B	2000 ppm	0.07	0.944	11.97
90A3845	Male	B	2000 ppm	-0.42	0.887	12.31
90A3847	Male	B	2000 ppm	-0.21	0.829	6.74
90A3848	Female	A	0 ppm	0.42	0.723	6.15
90A3849	Female	A	0 ppm	0.21	0.704	8.40
90A3850	Female	A	0 ppm	0.35	0.878	4.73
90A3851	Female	A	0 ppm	-0.21	0.885	9.26
90A3852	Female	A	0 ppm	0.00	0.331	4.00
90A3853	Female	A	0 ppm	0.63	0.756	4.61
90A3855	Female	B	0 ppm	-0.35	0.765	4.82
90A3856	Female	B	0 ppm	-0.21	0.704	8.45
90A3857	Female	B	0 ppm	-0.07	0.917	8.57
90A3859	Female	B	0 ppm	0.35	0.649	6.57
90A3860	Female	B	0 ppm	0.21	0.359	6.17
90A3861	Female	B	0 ppm	-0.14	0.864	8.56
90A3862	Female	A	200 ppm	0.14	0.739	11.04
90A3863	Female	A	200 ppm	0.28	0.689	2.79
90A3864	Female	A	200 ppm	-0.07	0.825	7.96
90A3865	Female	A	200 ppm	0.00	0.865	6.38
90A3867	Female	A	200 ppm	0.70	0.841	4.66
90A3868	Female	A	200 ppm	0.63	0.742	10.86
90A3869	Female	B	200 ppm	0.14	0.868	7.01
90A3870	Female	B	200 ppm	0.14	0.879	6.72
90A3872	Female	B	200 ppm	-0.14	0.798	6.56

ID Animal identification
 CONC Exposure concentration
 SEPCSP SEP-C 4.0-18.0 ms, latency difference from control template
 SEPCSC SEP-C 4.0-18.0 ms, optimized cross-correlation value (r)
 SEPCSPw SEP-C 4.0-18.0 ms, power (RMS μ V)

Appendix I, continued: SEP-C Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPCSP</u>	<u>SEPCSC</u>	<u>SEPCSPw</u>
90A3873	Female	B	200 ppm	0.28	0.763	11.66
90A3874	Female	B	200 ppm	0.21	0.756	4.40
90A3875	Female	B	200 ppm	0.28	0.683	9.92
90A3876	Female	A	630 ppm	0.49	0.838	4.36
90A3877	Female	A	630 ppm	0.35	0.528	1.92
90A3878	Female	A	630 ppm	-0.28	0.866	9.27
90A3879	Female	A	630 ppm	0.00	0.644	7.79
90A3880	Female	A	630 ppm	0.28	0.872	7.23
90A3881	Female	A	630 ppm	0.77	0.925	6.71
90A3883	Female	B	630 ppm	0.00	0.745	6.84
90A3884	Female	B	630 ppm	0.35	0.806	5.08
90A3885	Female	B	630 ppm	0.14	0.738	5.00
90A3886	Female	B	630 ppm	0.28	0.691	3.44
90A3887	Female	B	630 ppm	0.35	0.805	9.18
90A3888	Female	B	630 ppm	0.14	0.743	9.39
90A3890	Female	A	2000 ppm	0.00	0.407	7.63
90A3891	Female	A	2000 ppm	0.35	0.927	12.09
90A3892	Female	A	2000 ppm	0.42	0.790	7.37
90A3893	Female	A	2000 ppm	0.28	0.818	7.26
90A3895	Female	A	2000 ppm	0.28	0.912	7.39
90A3897	Female	B	2000 ppm	-0.14	0.949	13.95
90A3898	Female	B	2000 ppm	0.49	0.509	7.86
90A3899	Female	B	2000 ppm	0.00	0.847	8.33
90A3900	Female	B	2000 ppm	0.35	0.846	6.92
90A3901	Female	B	2000 ppm	-0.07	0.880	4.54
90A3902	Female	B	2000 ppm	0.28	0.883	5.55
90A3903	Female	B	2000 ppm	0.14	0.676	9.35

ID	Animal identification
CONC	Exposure concentration
SEPCSP	SEP-C 4.0-18.0 ms, latency difference from control template
SEPCSC	SEP-C 4.0-18.0 ms, optimized cross-correlation value (r)
SEPCSPw	SEP-C 4.0-18.0 ms, power (RMS μ V)

Appendix I, continued: SEP-C Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPCLP</u>	<u>SEPCLC</u>	<u>SEPCLPw</u>
90A3792	Male	A	0 ppm	0.0	0.958	23.91
90A3793	Male	A	0 ppm	0.4	0.982	28.16
90A3795	Male	A	0 ppm	-1.2	0.981	21.79
90A3796	Male	A	0 ppm	-1.2	0.994	33.92
90A3797	Male	A	0 ppm	1.2	0.959	22.33
90A3798	Male	A	0 ppm	-2.0	0.982	34.46
90A3799	Male	B	0 ppm	1.6	0.979	27.50
90A3800	Male	B	0 ppm	1.6	0.980	25.92
90A3802	Male	B	0 ppm	-2.4	0.995	26.20
90A3803	Male	B	0 ppm	-0.4	0.993	24.73
90A3804	Male	B	0 ppm	0.4	0.990	30.63
90A3805	Male	B	0 ppm	0.8	0.973	35.67
90A3806	Male	A	200 ppm	1.2	0.976	22.97
90A3807	Male	A	200 ppm	-1.2	0.969	31.71
90A3808	Male	A	200 ppm	2.4	0.982	35.29
90A3809	Male	A	200 ppm	1.2	0.954	28.29
90A3810	Male	A	200 ppm	-1.2	0.973	34.63
90A3811	Male	A	200 ppm	0.0	0.983	26.02
90A3813	Male	B	200 ppm	0.0	0.978	35.00
90A3814	Male	B	200 ppm	-1.2	0.980	31.61
90A3815	Male	B	200 ppm	0.8	0.942	23.70
90A3817	Male	B	200 ppm	-0.8	0.955	29.62
90A3818	Male	B	200 ppm	-1.6	0.994	37.44
90A3819	Male	B	200 ppm	-0.8	0.985	26.11
90A3820	Male	A	630 ppm	0.4	0.996	27.96
90A3821	Male	A	630 ppm	2.4	0.910	29.67
90A3822	Male	A	630 ppm	-0.4	0.988	34.10
90A3823	Male	A	630 ppm	-1.6	0.956	28.06
90A3824	Male	A	630 ppm	-0.8	0.980	33.85
90A3825	Male	A	630 ppm	2.0	0.987	41.34
90A3828	Male	B	630 ppm	2.8	0.981	33.22
90A3829	Male	B	630 ppm	-2.0	0.972	19.64
90A3830	Male	B	630 ppm	-0.4	0.944	28.13
90A3831	Male	B	630 ppm	1.2	0.982	31.22

ID Animal identification
 CONC Exposure concentration
 SEPCLP SEP-C 18.0-70.0 ms, latency difference from control template
 SEPCLC SEP-C 18.0-70.0 ms, optimized cross-correlation value (r)
 SEPCLPw SEP-C 18.0-70.0 ms, power (RMS μ V)

Appendix I, continued: SEP-C Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPCLP</u>	<u>SEPCLC</u>	<u>SEPCLP_w</u>
90A3832	Male	B	630 ppm	-0.4	0.992	34.23
90A3833	Male	B	630 ppm	1.2	0.983	33.70
90A3834	Male	A	2000 ppm	0.8	0.946	26.45
90A3837	Male	A	2000 ppm	2.0	0.987	30.34
90A3838	Male	A	2000 ppm	0.0	0.984	33.19
90A3839	Male	A	2000 ppm	0.4	0.987	27.09
90A3840	Male	A	2000 ppm	-0.8	0.934	42.39
90A3841	Male	B	2000 ppm	1.2	0.987	29.83
90A3842	Male	B	2000 ppm	1.6	0.976	39.05
90A3843	Male	B	2000 ppm	0.4	0.986	30.65
90A3844	Male	B	2000 ppm	0.4	0.985	30.61
90A3845	Male	B	2000 ppm	0.8	0.989	30.53
90A3847	Male	B	2000 ppm	0.0	0.896	15.72
90A3848	Female	A	0 ppm	0.8	0.979	28.00
90A3849	Female	A	0 ppm	0.8	0.882	25.58
90A3850	Female	A	0 ppm	-0.4	0.989	50.36
90A3851	Female	A	0 ppm	-1.6	0.963	36.45
90A3852	Female	A	0 ppm	0.4	0.976	25.81
90A3853	Female	A	0 ppm	0.8	0.952	22.31
90A3855	Female	B	0 ppm	1.2	0.885	25.19
90A3856	Female	B	0 ppm	-1.2	0.955	44.53
90A3857	Female	B	0 ppm	-0.4	0.993	30.63
90A3859	Female	B	0 ppm	-2.8	0.912	39.78
90A3860	Female	B	0 ppm	0.4	0.970	31.58
90A3861	Female	B	0 ppm	0.4	0.978	38.58
90A3862	Female	A	200 ppm	0.4	0.947	54.60
90A3863	Female	A	200 ppm	-0.4	0.974	24.93
90A3864	Female	A	200 ppm	-2.4	0.849	32.68
90A3865	Female	A	200 ppm	-1.6	0.983	46.41
90A3867	Female	A	200 ppm	0.0	0.994	31.72
90A3868	Female	A	200 ppm	0.0	0.939	37.45
90A3869	Female	B	200 ppm	0.0	0.941	27.45
90A3870	Female	B	200 ppm	-0.8	0.959	32.28
90A3872	Female	B	200 ppm	-0.4	0.981	34.18

ID Animal identification
 CONC Exposure concentration
 SEPCLP SEP-C 18.0-70.0 ms, latency difference from control template
 SEPCLC SEP-C 18.0-70.0 ms, optimized cross-correlation value (r)
 SEPCLP_w SEP-C 18.0-70.0 ms, power (RMS μ V)

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Appendix I, continued: SEP-C Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPCLP</u>	<u>SEPCLC</u>	<u>SEPCLPw</u>
90A3873	Female	B	200 ppm	0.0	0.964	40.78
90A3874	Female	B	200 ppm	-0.8	0.984	37.24
90A3875	Female	B	200 ppm	2.8	0.976	33.43
90A3876	Female	A	630 ppm	-0.4	0.961	25.56
90A3877	Female	A	630 ppm	-0.8	0.978	32.70
90A3878	Female	A	630 ppm	1.2	0.990	48.42
90A3879	Female	A	630 ppm	0.4	0.977	31.51
90A3880	Female	A	630 ppm	-1.6	0.937	29.18
90A3881	Female	A	630 ppm	-0.8	0.969	37.11
90A3883	Female	B	630 ppm	1.2	0.992	36.91
90A3884	Female	B	630 ppm	0.4	0.991	32.64
90A3885	Female	B	630 ppm	-1.6	0.902	27.41
90A3886	Female	B	630 ppm	0.0	0.971	22.07
90A3887	Female	B	630 ppm	-0.4	0.965	33.10
90A3888	Female	B	630 ppm	0.0	0.991	61.19
90A3890	Female	A	2000 ppm	0.4	0.966	31.23
90A3891	Female	A	2000 ppm	1.6	0.955	36.00
90A3892	Female	A	2000 ppm	0.4	0.987	42.75
90A3893	Female	A	2000 ppm	0.8	0.993	45.42
90A3895	Female	A	2000 ppm	-1.6	0.967	38.51
90A3897	Female	B	2000 ppm	-0.8	0.969	42.19
90A3898	Female	B	2000 ppm	2.0	0.917	52.22
90A3899	Female	B	2000 ppm	0.4	0.981	37.94
90A3900	Female	B	2000 ppm	-0.4	0.901	24.57
90A3901	Female	B	2000 ppm	-2.0	0.948	26.51
90A3902	Female	B	2000 ppm	-0.4	0.979	25.85
90A3903	Female	B	2000 ppm	0.8	0.977	49.72

ID	Animal identification
CONC	Exposure concentration
SEPCLP	SEP-C 18.0-70.0 ms, latency difference from control template
SEPCLC	SEP-C 18.0-70.0 ms, optimized cross-correlation value (r)
SEPCLPw	SEP-C 18.0-70.0 ms, power (RMS μ V)

Appendix J: SEP-S Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPSSP</u>	<u>SEPSSC</u>	<u>SEPSSP_w</u>
90A3792	Male	A	0 ppm	-0.28	0.856	4.91
90A3793	Male	A	0 ppm	-0.14	0.958	9.15
90A3795	Male	A	0 ppm	1.47	0.863	7.30
90A3796	Male	A	0 ppm	0.07	0.964	11.27
90A3797	Male	A	0 ppm	0.35	0.978	11.93
90A3798	Male	A	0 ppm	0.70	0.968	7.12
90A3799	Male	B	0 ppm	0.91	0.000	4.61
90A3800	Male	B	0 ppm	0.84	0.975	9.00
90A3802	Male	B	0 ppm	-0.77	0.925	4.75
90A3803	Male	B	0 ppm	-0.49	0.980	9.40
90A3804	Male	B	0 ppm	-0.56	0.438	3.33
90A3805	Male	B	0 ppm	-0.56	0.891	4.08
90A3806	Male	A	200 ppm	1.61	0.000	3.13
90A3807	Male	A	200 ppm	0.70	0.960	6.28
90A3808	Male	A	200 ppm	-0.42	0.907	6.02
90A3809	Male	A	200 ppm	-0.77	0.943	6.14
90A3810	Male	A	200 ppm	-0.35	0.974	8.31
90A3811	Male	A	200 ppm	0.42	0.988	13.16
90A3813	Male	B	200 ppm	-1.40	0.152	3.96
90A3814	Male	B	200 ppm	-1.75	0.000	9.61
90A3815	Male	B	200 ppm	0.00	0.968	5.86
90A3817	Male	B	200 ppm	-1.26	0.350	3.19
90A3818	Male	B	200 ppm	-0.35	0.982	13.05
90A3819	Male	B	200 ppm	-1.75	0.000	6.25
90A3820	Male	A	630 ppm	0.56	0.978	6.46
90A3821	Male	A	630 ppm	0.77	0.928	8.71
90A3822	Male	A	630 ppm	0.77	0.978	7.16
90A3823	Male	A	630 ppm	0.21	0.976	14.27
90A3824	Male	A	630 ppm	0.56	0.906	8.40
90A3825	Male	A	630 ppm	-0.91	0.000	6.21
90A3828	Male	B	630 ppm	-0.70	0.317	3.61
90A3829	Male	B	630 ppm	0.00	0.232	1.65
90A3830	Male	B	630 ppm	0.42	0.799	5.44
90A3831	Male	B	630 ppm	0.56	0.955	11.27

ID Animal identification
 CONC Exposure concentration
 SEPSSP SEP-S 4.0-16.5 ms, latency difference from control template
 SEPSSC SEP-S 4.0-16.5 ms, optimized cross-correlation value (r)
 SEPSSP_w SEP-S 4.0-16.5 ms, power (RMS μ V)

Appendix J, continued: SEP-S Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPSSP</u>	<u>SEPSSC</u>	<u>SEPSSP_w</u>
90A3832	Male	B	630 ppm	-0.07	0.979	9.43
90A3833	Male	B	630 ppm	1.19	0.000	5.77
90A3834	Male	A	2000 ppm	0.00	0.885	3.59
90A3837	Male	A	2000 ppm	-2.80	0.587	5.87
90A3838	Male	A	2000 ppm	-0.28	0.971	9.62
90A3839	Male	A	2000 ppm	0.63	0.967	9.16
90A3840	Male	A	2000 ppm	-1.82	0.000	9.92
90A3841	Male	B	2000 ppm	-0.77	0.000	9.42
90A3842	Male	B	2000 ppm	-0.84	0.941	8.15
90A3843	Male	B	2000 ppm	0.14	0.528	2.06
90A3844	Male	B	2000 ppm	0.28	0.801	3.62
90A3845	Male	B	2000 ppm	-0.42	0.964	8.25
90A3847	Male	B	2000 ppm	0.21	0.990	6.91
90A3848	Female	A	0 ppm	0.63	0.808	7.27
90A3849	Female	A	0 ppm	0.84	0.755	9.72
90A3850	Female	A	0 ppm	0.00	0.528	4.84
90A3851	Female	A	0 ppm	-0.14	0.896	7.45
90A3852	Female	A	0 ppm	-0.28	0.442	3.92
90A3853	Female	A	0 ppm	0.00	0.668	4.71
90A3855	Female	B	0 ppm	0.00	0.527	7.42
90A3856	Female	B	0 ppm	-1.19	0.000	12.48
90A3857	Female	B	0 ppm	-0.42	0.777	13.78
90A3859	Female	B	0 ppm	0.21	0.955	6.57
90A3860	Female	B	0 ppm	0.00	0.000	9.87
90A3861	Female	B	0 ppm	-0.07	0.892	9.41
90A3862	Female	A	200 ppm	0.00	0.860	8.95
90A3863	Female	A	200 ppm	0.07	0.945	3.11
90A3864	Female	A	200 ppm	0.35	0.784	8.94
90A3865	Female	A	200 ppm	0.00	0.000	11.71
90A3867	Female	A	200 ppm	0.00	0.779	8.97
90A3868	Female	A	200 ppm	0.49	0.928	16.45
90A3869	Female	B	200 ppm	-0.42	0.816	5.96
90A3870	Female	B	200 ppm	0.00	0.766	8.10
90A3872	Female	B	200 ppm	-0.14	0.861	11.92

ID Animal identification
 CONC Exposure concentration
 SEPSSP SEP-S 4.0-16.5 ms, latency difference from control template
 SEPSSC SEP-S 4.0-16.5 ms, optimized cross-correlation value (r)
 SEPSSP_w SEP-S 4.0-16.5 ms, power (RMS μ V)

Appendix J, continued: SEP-S Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPSSP</u>	<u>SEPSSC</u>	<u>SEPSSP_w</u>
90A3873	Female	B	200 ppm	-0.21	0.851	6.75
90A3874	Female	B	200 ppm	0.00	0.000	8.77
90A3875	Female	B	200 ppm	0.21	0.874	4.41
90A3876	Female	A	630 ppm	1.40	0.891	7.33
90A3877	Female	A	630 ppm	0.21	0.723	3.02
90A3878	Female	A	630 ppm	-0.42	0.807	20.03
90A3879	Female	A	630 ppm	0.35	0.772	11.16
90A3880	Female	A	630 ppm	0.21	0.846	9.85
90A3881	Female	A	630 ppm	-1.12	0.000	8.26
90A3883	Female	B	630 ppm	-0.70	0.872	11.64
90A3884	Female	B	630 ppm	-0.35	0.701	12.87
90A3885	Female	B	630 ppm	0.00	0.872	8.52
90A3886	Female	B	630 ppm	0.00	0.000	11.57
90A3887	Female	B	630 ppm	-0.21	0.800	19.08
90A3888	Female	B	630 ppm	-0.21	0.924	7.74
90A3890	Female	A	2000 ppm	0.21	0.739	8.90
90A3891	Female	A	2000 ppm	0.14	0.834	10.19
90A3892	Female	A	2000 ppm	0.49	0.891	6.36
90A3893	Female	A	2000 ppm	-0.56	0.908	8.37
90A3895	Female	A	2000 ppm	-2.80 ^b	0.273	4.59
90A3897	Female	B	2000 ppm	-0.14	0.859	15.47
90A3898	Female	B	2000 ppm	0.70	0.861	10.52
90A3899	Female	B	2000 ppm	-0.35	0.633	8.21
90A3900	Female	B	2000 ppm	0.00	0.256	6.41
90A3901	Female	B	2000 ppm	0.00	0.777	2.90
90A3902	Female	B	2000 ppm	0.56	0.000	7.39
90A3903	Female	B	2000 ppm	0.77	0.937	10.10

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
SEPSSP	SEP-S 4.0-16.5 ms, latency difference from control template
SEPSSC	SEP-S 4.0-16.5 ms, optimized cross-correlation value (r)
SEPSSP _w	SEP-S 4.0-16.5 ms, power (RMS μ V)

Appendix J, continued: SEP-S Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPSLP</u>	<u>SEPSLC</u>	<u>SEPSLP_w</u>
90A3792	Male	A	0 ppm	-0.8	0.988	64.52
90A3793	Male	A	0 ppm	-2.4	0.965	76.79
90A3795	Male	A	0 ppm	1.2	0.972	51.03
90A3796	Male	A	0 ppm	-0.4	0.994	75.29
90A3797	Male	A	0 ppm	-0.4	0.969	96.59
90A3798	Male	A	0 ppm	2.0	0.983	63.81
90A3799	Male	B	0 ppm	0.4	0.943	58.78
90A3800	Male	B	0 ppm	6.4	0.962	57.51
90A3802	Male	B	0 ppm	-1.2	0.982	40.48
90A3803	Male	B	0 ppm	0.0	0.980	65.69
90A3804	Male	B	0 ppm	-2.0	0.909	44.29
90A3805	Male	B	0 ppm	-1.6	0.990	56.04
90A3806	Male	A	200 ppm	0.0	0.948	32.83
90A3807	Male	A	200 ppm	-0.4	0.927	41.86
90A3808	Male	A	200 ppm	-2.0	0.972	71.98
90A3809	Male	A	200 ppm	-1.2	0.991	48.79
90A3810	Male	A	200 ppm	-0.8	0.960	53.84
90A3811	Male	A	200 ppm	0.4	0.946	60.22
90A3813	Male	B	200 ppm	-1.2	0.980	46.97
90A3814	Male	B	200 ppm	-7.2	0.942	65.18
90A3815	Male	B	200 ppm	-0.8	0.964	50.67
90A3817	Male	B	200 ppm	-2.8	0.964	53.59
90A3818	Male	B	200 ppm	-1.2	0.972	57.54
90A3819	Male	B	200 ppm	-4.0	0.938	45.29
90A3820	Male	A	630 ppm	3.2	0.909	52.31
90A3821	Male	A	630 ppm	0.8	0.966	75.01
90A3822	Male	A	630 ppm	0.0	0.975	55.42
90A3823	Male	A	630 ppm	-0.4	0.982	76.77
90A3824	Male	A	630 ppm	0.0	0.967	76.18
90A3825	Male	A	630 ppm	-4.8	0.965	64.65
90A3828	Male	B	630 ppm	-1.6	0.974	46.31
90A3829	Male	B	630 ppm	-0.4	0.964	52.93
90A3830	Male	B	630 ppm	2.4	0.953	67.00
90A3831	Male	B	630 ppm	0.8	0.985	62.12

ID	Animal identification
CONC	Exposure concentration
SEPSLP	SEP-S 16.5-90.0 ms, latency difference from control template
SEPSLC	SEP-S 16.5-90.0 ms, optimized cross-correlation value (r)
SEPSLP _w	SEP-S 16.5-90.0 ms, power (RMS μ V)

Appendix J, continued: SEP-S Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPSLP</u>	<u>SEPSLC</u>	<u>SEPSLP_w</u>
90A3832	Male	B	630 ppm	-0.4	0.985	50.51
90A3833	Male	B	630 ppm	-5.2	0.853	44.35
90A3834	Male	A	2000 ppm	-1.2	0.963	47.58
90A3837	Male	A	2000 ppm	-3.2	0.971	92.52
90A3838	Male	A	2000 ppm	-0.4	0.990	55.61
90A3839	Male	A	2000 ppm	0.8	0.967	49.39
90A3840	Male	A	2000 ppm	-8.0	0.933	75.04
90A3841	Male	B	2000 ppm	-6.4	0.890	78.57
90A3842	Male	B	2000 ppm	-1.2	0.896	56.36
90A3843	Male	B	2000 ppm	0.0	0.979	55.07
90A3844	Male	B	2000 ppm	-0.4	0.970	52.43
90A3845	Male	B	2000 ppm	-0.4	0.981	68.51
90A3847	Male	B	2000 ppm	0.8	0.984	55.64
90A3848	Female	A	0 ppm	5.2	0.942	57.39
90A3849	Female	A	0 ppm	2.0	0.881	91.15
90A3850	Female	A	0 ppm	-1.6	0.987	62.52
90A3851	Female	A	0 ppm	4.4	0.979	65.35
90A3852	Female	A	0 ppm	-0.8	0.975	54.54
90A3853	Female	A	0 ppm	0.8	0.978	56.07
90A3855	Female	B	0 ppm	0.0	0.989	63.47
90A3856	Female	B	0 ppm	-2.4	0.807	91.14
90A3857	Female	B	0 ppm	1.6	0.986	86.24
90A3859	Female	B	0 ppm	-2.0	0.981	59.40
90A3860	Female	B	0 ppm	-6.8	0.967	86.90
90A3861	Female	B	0 ppm	0.4	0.989	59.72
90A3862	Female	A	200 ppm	4.4	0.968	63.18
90A3863	Female	A	200 ppm	-0.8	0.975	44.64
90A3864	Female	A	200 ppm	-0.4	0.973	85.91
90A3865	Female	A	200 ppm	-4.4	0.866	70.11
90A3867	Female	A	200 ppm	-1.2	0.967	82.84
90A3868	Female	A	200 ppm	0.8	0.985	81.73
90A3869	Female	B	200 ppm	-0.8	0.975	71.08
90A3870	Female	B	200 ppm	2.4	0.943	46.67
90A3872	Female	B	200 ppm	0.8	0.976	72.48

ID Animal identification
 CONC Exposure concentration
 SEPSLP SEP-S 16.5-90.0 ms, latency difference from control template
 SEPSLC SEP-S 16.5-90.0 ms, optimized cross-correlation value (r)
 SEPSLP_w SEP-S 16.5-90.0 ms, power (RMS μ V)

Appendix J, continued: SEP-S Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>SEPSLP</u>	<u>SEPSLC</u>	<u>SEPSLPw</u>
90A3873	Female	B	200 ppm	0.8	0.966	53.21
90A3874	Female	B	200 ppm	-8.0	0.933	74.78
90A3875	Female	B	200 ppm	1.2	0.932	67.20
90A3876	Female	A	630 ppm	2.8	0.984	55.62
90A3877	Female	A	630 ppm	-1.6	0.984	66.75
90A3878	Female	A	630 ppm	0.0	0.958	102.01
90A3879	Female	A	630 ppm	4.8	0.931	61.45
90A3880	Female	A	630 ppm	-0.8	0.953	52.25
90A3881	Female	A	630 ppm	-6.8	0.932	92.00
90A3883	Female	B	630 ppm	-1.6	0.944	54.11
90A3884	Female	B	630 ppm	-0.8	0.960	81.13
90A3885	Female	B	630 ppm	0.8	0.952	34.95
90A3886	Female	B	630 ppm	-3.6	0.980	67.39
90A3887	Female	B	630 ppm	1.2	0.972	90.77
90A3888	Female	B	630 ppm	-2.4	0.975	46.49
90A3890	Female	A	2000 ppm	2.8	0.982	88.20
90A3891	Female	A	2000 ppm	2.8	0.960	75.84
90A3892	Female	A	2000 ppm	0.4	0.961	68.46
90A3893	Female	A	2000 ppm	-0.4	0.987	83.36
90A3895	Female	A	2000 ppm	-4.4	0.950	64.76
90A3897	Female	B	2000 ppm	-0.8	0.985	90.66
90A3898	Female	B	2000 ppm	2.0	0.968	66.58
90A3899	Female	B	2000 ppm	0.8	0.992	61.73
90A3900	Female	B	2000 ppm	-2.0	0.993	97.86
90A3901	Female	B	2000 ppm	0.8	0.901	32.09
90A3902	Female	B	2000 ppm	-1.6	0.993	65.91
90A3903	Female	B	2000 ppm	-0.4	0.963	55.77

ID Animal identification
 CONC Exposure concentration
 SEPSLP SEP-S 16.5-90.0 ms, latency difference from control template
 SEPSLC SEP-S 16.5-90.0 ms, optimized cross-correlation value (r)
 SEPSLPw SEP-S 16.5-90.0 ms, power (RMS μ V)

Appendix K: ABR click Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABRCP</u>	<u>ABRCC</u>	<u>ABRCP_w</u>
90A3792	Male	A	0 ppm	0.00	0.984	3.10
90A3793	Male	A	0 ppm	0.00	0.972	3.08
90A3795	Male	A	0 ppm	0.07	0.940	2.07
90A3796	Male	A	0 ppm	0.00	0.934	2.39
90A3797	Male	A	0 ppm	0.00	0.960	2.95
90A3798	Male	A	0 ppm	0.02	0.893	1.65
90A3799	Male	B	0 ppm	-0.05	0.949	3.11
90A3800	Male	B	0 ppm	0.02	0.930	2.38
90A3802	Male	B	0 ppm	-0.02	0.961	2.49
90A3803	Male	B	0 ppm	0.02	0.932	1.73
90A3804	Male	B	0 ppm	0.17	0.836	1.02
90A3805	Male	B	0 ppm	0.02	0.960	2.36
90A3806	Male	A	200 ppm	0.10	0.940	2.27
90A3807	Male	A	200 ppm	-0.02	0.974	2.42
90A3808	Male	A	200 ppm	0.00	0.794	2.58
90A3809	Male	A	200 ppm	-0.10	0.923	3.88
90A3810	Male	A	200 ppm	-0.05	0.926	2.52
90A3811	Male	A	200 ppm	0.10	0.943	1.13
90A3813	Male	B	200 ppm	0.05	0.941	1.87
90A3814	Male	B	200 ppm	0.02	0.991	2.41
90A3815	Male	B	200 ppm	-0.02	0.963	1.89
90A3817	Male	B	200 ppm	0.05	0.934	2.69
90A3818	Male	B	200 ppm	0.00	0.971	2.53
90A3819	Male	B	200 ppm	-0.07	0.658	1.01
90A3820	Male	A	630 ppm	0.02	0.968	2.39
90A3821	Male	A	630 ppm	0.05	0.975	1.99
90A3822	Male	A	630 ppm	0.05	0.970	1.86
90A3823	Male	A	630 ppm	0.00	0.974	2.10
90A3824	Male	A	630 ppm	-0.02	0.965	2.73
90A3825	Male	A	630 ppm	0.02	0.962	2.76
90A3828	Male	B	630 ppm	0.00	0.957	2.00
90A3829	Male	B	630 ppm	0.07	0.931	2.33
90A3830	Male	B	630 ppm	-0.02	0.950	2.75
90A3831	Male	B	630 ppm	0.00	0.645	1.42

ID Animal identification
 CONC Exposure concentration
 ABRCP ABR click 1.0-5.0 ms, latency difference from control template
 ABRCC ABR click 1.0-5.0 ms, optimized cross-correlation value (r)
 ABRCP_w ABR click 1.0-5.0 ms, power (RMS μ V)

Appendix K, continued: ABR click Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABRCP</u>	<u>ABRCC</u>	<u>ABRCP_w</u>
90A3832	Male	B	630 ppm	0.00	0.946	2.68
90A3833	Male	B	630 ppm	0.07	0.968	2.73
90A3834	Male	A	2000 ppm	0.05	0.904	2.31
90A3837	Male	A	2000 ppm	-0.02	0.974	2.11
90A3838	Male	A	2000 ppm	0.00	0.979	3.24
90A3839	Male	A	2000 ppm	0.07	0.906	1.66
90A3840	Male	A	2000 ppm	-0.05	0.956	2.64
90A3841	Male	B	2000 ppm	-0.05	0.958	3.12
90A3842	Male	B	2000 ppm	-0.02	0.968	2.67
90A3843	Male	B	2000 ppm	0.12	0.839	1.54
90A3844	Male	B	2000 ppm	0.00	0.922	2.69
90A3845	Male	B	2000 ppm	0.05	0.953	1.54
90A3847	Male	B	2000 ppm	0.14	0.868	1.13
90A3848	Female	A	0 ppm	0.05	0.969	2.99
90A3849	Female	A	0 ppm	0.07	0.913	2.40
90A3850	Female	A	0 ppm	0.00	0.934	2.57
90A3851	Female	A	0 ppm	-0.02	0.913	3.28
90A3852	Female	A	0 ppm	0.00	0.921	3.56
90A3853	Female	A	0 ppm	0.05	0.947	2.83
90A3855	Female	B	0 ppm	0.02	0.891	1.74
90A3856	Female	B	0 ppm	0.02	0.895	1.44
90A3857	Female	B	0 ppm	0.00	0.940	3.36
90A3859	Female	B	0 ppm	0.07	0.922	2.04
90A3860	Female	B	0 ppm	0.10	0.970	2.36
90A3861	Female	B	0 ppm	0.07	0.947	2.83
90A3862	Female	A	200 ppm	0.02	0.940	3.01
90A3863	Female	A	200 ppm	0.02	0.963	2.34
90A3864	Female	A	200 ppm	0.00	0.951	3.04
90A3865	Female	A	200 ppm	0.00	0.967	2.69
90A3867	Female	A	200 ppm	0.05	0.954	2.77
90A3868	Female	A	200 ppm	0.02	0.957	3.05
90A3869	Female	B	200 ppm	0.00	0.921	2.46
90A3870	Female	B	200 ppm	0.00	0.975	3.19
90A3872	Female	B	200 ppm	0.07	0.943	2.73

ID Animal identification
 CONC Exposure concentration
 ABRCP ABR click 1.0-5.0 ms, latency difference from control template
 ABRCC ABR click 1.0-5.0 ms, optimized cross-correlation value (r)
 ABRCP_w ABR click 1.0-5.0 ms, power (RMS μ V)

Appendix K, continued: ABR click Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABRCP</u>	<u>ABRCC</u>	<u>ABRCP_w</u>
90A3873	Female	B	200 ppm	0.02	0.965	2.84
90A3874	Female	B	200 ppm	-0.02	0.921	2.63
90A3875	Female	B	200 ppm	0.10	0.900	2.36
90A3876	Female	A	630 ppm	0.07	0.884	2.29
90A3877	Female	A	630 ppm	0.02	0.934	2.44
90A3878	Female	A	630 ppm	-0.02	0.948	3.25
90A3879	Female	A	630 ppm	0.05	0.942	3.13
90A3880	Female	A	630 ppm	0.00	0.908	2.00
90A3881	Female	A	630 ppm	0.07	0.893	1.82
90A3883	Female	B	630 ppm	0.00	0.946	3.43
90A3884	Female	B	630 ppm	-0.02	0.950	2.60
90A3885	Female	B	630 ppm	0.07	0.907	1.76
90A3886	Female	B	630 ppm	0.05	0.967	3.10
90A3887	Female	B	630 ppm	-0.10	0.617 ^b	2.28
90A3888	Female	B	630 ppm	0.02	0.939	2.87
90A3890	Female	A	2000 ppm	0.07	0.920	2.29
90A3891	Female	A	2000 ppm	-0.02	0.934	3.27
90A3892	Female	A	2000 ppm	-0.02	0.976	3.54
90A3893	Female	A	2000 ppm	0.00	0.922	3.00
90A3895	Female	A	2000 ppm	0.00	0.943	2.82
90A3897	Female	B	2000 ppm	-0.02	0.946	3.54
90A3898	Female	B	2000 ppm	0.02	0.923	3.07
90A3899	Female	B	2000 ppm	0.02	0.961	2.84
90A3900	Female	B	2000 ppm	0.12	0.906	1.78
90A3901	Female	B	2000 ppm	0.05	0.964	2.42
90A3902	Female	B	2000 ppm	0.14	0.876	1.61
90A3903	Female	B	2000 ppm	0.00	0.829	1.77

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
ABRCP	ABR click 1.0-5.0 ms, latency difference from control template
ABRCC	ABR click 1.0-5.0 ms, optimized cross-correlation value (r)
ABRCP _w	ABR click 1.0-5.0 ms, power (RMS μ V)

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Appendix L: ABR₁₀ tone Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABR10P</u>	<u>ABR10C</u>	<u>ABR10Pw</u>
90A3792	Male	A	0 ppm	0.00	0.959	0.72
90A3793	Male	A	0 ppm	-0.02	0.892	0.80
90A3795	Male	A	0 ppm	0.12	0.818	0.56
90A3796	Male	A	0 ppm	0.05	0.875	0.57
90A3797	Male	A	0 ppm	-0.02	0.899	0.60
90A3798	Male	A	0 ppm	0.05	0.793	0.46
90A3799	Male	B	0 ppm	-0.05	0.788	0.81
90A3800	Male	B	0 ppm	-0.05	0.917	0.75
90A3802	Male	B	0 ppm	-0.05	0.906	0.52
90A3803	Male	B	0 ppm	0.05	0.542	0.43
90A3804	Male	B	0 ppm	0.26	0.852	0.38
90A3805	Male	B	0 ppm	-0.02	0.923	0.91
90A3806	Male	A	200 ppm	0.12	0.929	0.71
90A3807	Male	A	200 ppm	0.00	0.837	0.78
90A3808	Male	A	200 ppm	0.17	0.263	0.60
90A3809	Male	A	200 ppm	-0.07	0.920	0.82
90A3810	Male	A	200 ppm	-0.05	0.736	0.67
90A3811	Male	A	200 ppm	0.10	0.248 ^b	0.44
90A3813	Male	B	200 ppm	0.00	0.494	0.44
90A3814	Male	B	200 ppm	0.02	0.649	0.58
90A3815	Male	B	200 ppm	-0.07	0.789	0.47
90A3817	Male	B	200 ppm	-0.02	0.917	0.85
90A3818	Male	B	200 ppm	-0.02	0.705	0.74
90A3819	Male	B	200 ppm	-0.05	0.326	0.28
90A3820	Male	A	630 ppm	0.07	0.852	0.71
90A3821	Male	A	630 ppm	0.10	0.725	0.61
90A3822	Male	A	630 ppm	0.05	0.640	0.53
90A3823	Male	A	630 ppm	0.00	0.914	0.63
90A3824	Male	A	630 ppm	-0.02	0.883	0.75
90A3825	Male	A	630 ppm	0.05	0.873	0.60
90A3828	Male	B	630 ppm	0.00	0.842	0.58
90A3829	Male	B	630 ppm	0.14	0.921	0.76
90A3830	Male	B	630 ppm	-0.02	0.931	0.56

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
ABR10P	ABR tone 10kHz 1.5-5.9 ms, latency difference from control template
ABR10C	ABR tone 10kHz 1.5-5.9 ms, optimized cross-correlation value (r)
ABR10Pw	ABR tone 10kHz 1.5-5.9 ms, power (RMS μ V)

Appendix L, continued: ABR₁₀ tone Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABR10P</u>	<u>ABR10C</u>	<u>ABR10Pw</u>
90A3831	Male	B	630 ppm	-0.02	0.807	0.36
90A3832	Male	B	630 ppm	0.05	0.869	0.79
90A3833	Male	B	630 ppm	0.14	0.807	0.66
90A3834	Male	A	2000 ppm	0.05	0.903	0.69
90A3837	Male	A	2000 ppm	-0.07	0.921	0.62
90A3838	Male	A	2000 ppm	0.05	0.845	0.73
90A3839	Male	A	2000 ppm	0.14	0.788	0.50
90A3840	Male	A	2000 ppm	-0.12	0.879	0.50
90A3841	Male	B	2000 ppm	-0.12	0.898	0.64
90A3842	Male	B	2000 ppm	-0.05	0.833	0.72
90A3843	Male	B	2000 ppm	0.14	0.715	0.80
90A3844	Male	B	2000 ppm	-0.05	0.925	0.67
90A3845	Male	B	2000 ppm	0.00	0.684	0.66
90A3847	Male	B	2000 ppm	0.12	0.223	0.43
90A3848	Female	A	0 ppm	0.05	0.620	0.89
90A3849	Female	A	0 ppm	-0.05	0.708	0.88
90A3850	Female	A	0 ppm	-0.05	0.732	0.51
90A3851	Female	A	0 ppm	-0.07	0.930	1.12
90A3852	Female	A	0 ppm	-0.02	0.919	0.88
90A3853	Female	A	0 ppm	0.05	0.896	0.77
90A3855	Female	B	0 ppm	0.02	0.920	0.52
90A3856	Female	B	0 ppm	0.00	0.843	0.63
90A3857	Female	B	0 ppm	-0.02	0.925	0.98
90A3859	Female	B	0 ppm	0.05	0.761	0.52
90A3860	Female	B	0 ppm	0.10	0.904	0.83
90A3861	Female	B	0 ppm	0.05	0.776	0.66
90A3862	Female	A	200 ppm	-0.02	0.867	0.71
90A3863	Female	A	200 ppm	-0.02	0.947	0.75
90A3864	Female	A	200 ppm	-0.02	0.823	0.78
90A3865	Female	A	200 ppm	-0.07	0.637	0.66
90A3867	Female	A	200 ppm	0.05	0.793	0.73
90A3868	Female	A	200 ppm	0.02	0.976	0.85
90A3869	Female	B	200 ppm	-0.07	0.741	0.81
90A3870	Female	B	200 ppm	-0.05	0.867	0.83
90A3872	Female	B	200 ppm	0.05	0.635	0.56

ID Animal identification
 CONC Exposure concentration
 ABR10P ABR tone 10kHz 1.5-5.9 ms, latency difference from control template
 ABR10C ABR tone 10kHz 1.5-5.9 ms, optimized cross-correlation value (r)
 ABR10Pw ABR tone 10kHz 1.5-5.9 ms, power (RMS μ V)

Appendix L, continued: ABR₁₀ tone Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABR10P</u>	<u>ABR10C</u>	<u>ABR10Pw</u>
90A3873	Female	B	200 ppm	-0.05	0.796	0.81
90A3874	Female	B	200 ppm	0.00	0.852	0.62
90A3875	Female	B	200 ppm	0.05	0.780	0.90
90A3876	Female	A	630 ppm	0.10	0.771	0.61
90A3877	Female	A	630 ppm	-0.05	0.773	0.82
90A3878	Female	A	630 ppm	-0.05	0.840	0.92
90A3879	Female	A	630 ppm	0.07	0.867	0.80
90A3880	Female	A	630 ppm	-0.02	0.960	0.70
90A3881	Female	A	630 ppm	0.02	0.861	0.67
90A3883	Female	B	630 ppm	0.02	0.881	0.88
90A3884	Female	B	630 ppm	-0.07	0.727	0.81
90A3885	Female	B	630 ppm	0.14	0.718	0.60
90A3886	Female	B	630 ppm	0.00	0.934	0.73
90A3887	Female	B	630 ppm	-0.17	0.755	0.82
90A3888	Female	B	630 ppm	0.00	0.770	0.80
90A3890	Female	A	2000 ppm	0.10	0.864	0.89
90A3891	Female	A	2000 ppm	-0.07	0.728	0.83
90A3892	Female	A	2000 ppm	-0.02	0.940	0.94
90A3893	Female	A	2000 ppm	-0.10	0.930	1.07
90A3895	Female	A	2000 ppm	-0.05	0.912	0.84
90A3897	Female	B	2000 ppm	-0.10	0.810	0.98
90A3898	Female	B	2000 ppm	-0.10	0.879	1.14
90A3899	Female	B	2000 ppm	-0.05	0.867	0.94
90A3900	Female	B	2000 ppm	0.19	0.801	0.52
90A3901	Female	B	2000 ppm	0.00	0.923	0.86
90A3902	Female	B	2000 ppm	0.19	0.724	0.55
90A3903	Female	B	2000 ppm	0.10	0.427	0.31

ID	Animal identification
CONC	Exposure concentration
ABR10P	ABR tone 10kHz 1.5-5.9 ms, latency difference from control template
ABR10C	ABR tone 10kHz 1.5-5.9 ms, optimized cross-correlation value (r)
ABR10Pw	ABR tone 10kHz 1.5-5.9 ms, power (RMS μ V)

Appendix M: ABR₃₀ tone Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABR30P</u>	<u>ABR30C</u>	<u>ABR30Pw</u>
90A3792	Male	A	0 ppm	-0.10	0.909	0.61
90A3793	Male	A	0 ppm	0.00	0.703	0.53
90A3795	Male	A	0 ppm	0.02	0.779	0.43
90A3796	Male	A	0 ppm	0.00	0.757	0.42
90A3797	Male	A	0 ppm	0.02	0.820	0.46
90A3798	Male	A	0 ppm	-0.10	0.018	0.34
90A3799	Male	B	0 ppm	-0.07	0.643	0.78
90A3800	Male	B	0 ppm	0.07	0.641	0.54
90A3802	Male	B	0 ppm	-0.02	0.859	0.22
90A3803	Male	B	0 ppm	0.00	0.411	0.37
90A3804	Male	B	0 ppm	0.17	0.598	0.41
90A3805	Male	B	0 ppm	0.19	0.612	0.51
90A3806	Male	A	200 ppm	0.22	0.797	0.41
90A3807	Male	A	200 ppm	-0.05	0.851	0.50
90A3808	Male	A	200 ppm	0.05	0.887	0.45
90A3809	Male	A	200 ppm	-0.05	0.842	1.00
90A3810	Male	A	200 ppm	-0.14	0.777	0.58
90A3811	Male	A	200 ppm	0.14	0.595	0.67
90A3813	Male	B	200 ppm	0.05	0.447	0.39
90A3814	Male	B	200 ppm	0.05	0.746	0.52
90A3815	Male	B	200 ppm	-0.02	0.812	0.38
90A3817	Male	B	200 ppm	0.05	0.793	0.58
90A3818	Male	B	200 ppm	-0.17	0.771	0.84
90A3819	Male	B	200 ppm	-0.14	0.592	0.44
90A3820	Male	A	630 ppm	0.00	0.881	0.41
90A3821	Male	A	630 ppm	0.05	0.692	0.67
90A3822	Male	A	630 ppm	0.00	0.630	0.42
90A3823	Male	A	630 ppm	0.12	0.797	0.60
90A3824	Male	A	630 ppm	-0.07	0.843	0.66
90A3825	Male	A	630 ppm	-0.07	0.811	0.50
90A3828	Male	B	630 ppm	-0.02	0.918	0.49
90A3829	Male	B	630 ppm	0.17	0.663	0.51
90A3830	Male	B	630 ppm	-0.02	0.769	0.70
90A3831	Male	B	630 ppm	-0.02	0.481	0.35

ID	Animal identification
CONC	Exposure concentration
ABR30P	ABR tone 30kHz 1.5-5.5 ms, latency difference from control template
ABR30C	ABR tone 30kHz 1.5-5.5 ms, optimized cross-correlation value (r)
ABR30Pw	ABR tone 30kHz 1.5-5.5 ms, power (RMS μ V)

Appendix M, continued: ABR₃₀ tone Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABR30P</u>	<u>ABR30C</u>	<u>ABR30Pw</u>
90A3832	Male	B	630 ppm	-0.05	0.832	0.66
90A3833	Male	B	630 ppm	0.07	0.841	0.67
90A3834	Male	A	2000 ppm	0.07	0.777	0.42
90A3837	Male	A	2000 ppm	0.10	0.872	0.50
90A3838	Male	A	2000 ppm	-0.02	0.853	0.62
90A3839	Male	A	2000 ppm	0.43	0.560	0.44
90A3840	Male	A	2000 ppm	-0.17	0.791	0.69
90A3841	Male	B	2000 ppm	-0.10	0.882	0.43
90A3842	Male	B	2000 ppm	0.00	0.894	0.69
90A3843	Male	B	2000 ppm	0.29	0.598	0.49
90A3844	Male	B	2000 ppm	0.05	0.884	0.26
90A3845	Male	B	2000 ppm	0.05	0.719	0.62
90A3847	Male	B	2000 ppm	0.26	0.580	0.32
90A3848	Female	A	0 ppm	0.05	0.774	0.74
90A3849	Female	A	0 ppm	0.07	0.871	0.45
90A3850	Female	A	0 ppm	-0.02	0.864	0.96
90A3851	Female	A	0 ppm	-0.02	0.800	0.65
90A3852	Female	A	0 ppm	0.00	0.907	0.74
90A3853	Female	A	0 ppm	0.05	0.774	0.53
90A3855	Female	B	0 ppm	-0.02	0.784	0.48
90A3856	Female	B	0 ppm	0.05	0.578	0.38
90A3857	Female	B	0 ppm	0.00	0.942	0.80
90A3859	Female	B	0 ppm	0.12	0.793	0.46
90A3860	Female	B	0 ppm	0.17	0.546	0.47
90A3861	Female	B	0 ppm	0.10	0.495	0.39
90A3862	Female	A	200 ppm	0.05	0.573	0.59
90A3863	Female	A	200 ppm	0.10	0.761	0.43
90A3864	Female	A	200 ppm	0.10	0.855	0.92
90A3865	Female	A	200 ppm	-0.07	0.911	0.58
90A3867	Female	A	200 ppm	0.07	0.904	0.66
90A3868	Female	A	200 ppm	0.19	0.765	0.96
90A3869	Female	B	200 ppm	0.10	0.551	0.44
90A3870	Female	B	200 ppm	0.02	0.882	0.57
90A3872	Female	B	200 ppm	0.19	0.787	0.59

ID Animal identification
 CONC Exposure concentration
 ABR30P ABR tone 30kHz 1.5-5.5 ms, latency difference from control template
 ABR30C ABR tone 30kHz 1.5-5.5 ms, optimized cross-correlation value (r)
 ABR30Pw ABR tone 30kHz 1.5-5.5 ms, power (RMS μ V)

Appendix M, continued: ABR₃₀ tone Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>ABR30P</u>	<u>ABR30C</u>	<u>ABR30Pw</u>
90A3873	Female	B	200 ppm	0.10	0.861	0.46
90A3874	Female	B	200 ppm	-0.07	0.887	0.87
90A3875	Female	B	200 ppm	0.29	0.552	0.67
90A3876	Female	A	630 ppm	0.19	0.602	0.44
90A3877	Female	A	630 ppm	0.07	0.707	0.81
90A3878	Female	A	630 ppm	-0.05	0.894	0.82
90A3879	Female	A	630 ppm	0.02	0.716	0.57
90A3880	Female	A	630 ppm	-0.07	0.664	0.62
90A3881	Female	A	630 ppm	0.24	0.668	0.50
90A3883	Female	B	630 ppm	0.10	0.798	0.97
90A3884	Female	B	630 ppm	-0.07	0.755	0.48
90A3885	Female	B	630 ppm	0.14	0.566	0.36
90A3886	Female	B	630 ppm	0.02	0.842	0.49
90A3887	Female	B	630 ppm	-0.14	0.496	0.68
90A3888	Female	B	630 ppm	0.02	0.800	0.77
90A3890	Female	A	2000 ppm	0.26	0.748	0.53
90A3891	Female	A	2000 ppm	0.02	0.840	0.75
90A3892	Female	A	2000 ppm	0.02	0.889	0.74
90A3893	Female	A	2000 ppm	0.10	0.895	0.53
90A3895	Female	A	2000 ppm	-0.10	0.910	0.76
90A3897	Female	B	2000 ppm	0.00	0.777	0.82
90A3898	Female	B	2000 ppm	0.07	0.761	0.69
90A3899	Female	B	2000 ppm	0.07	0.830	0.90
90A3900	Female	B	2000 ppm	0.12	0.665	0.70
90A3901	Female	B	2000 ppm	0.00	0.866	0.51
90A3902	Female	B	2000 ppm	0.26	0.363	0.42
90A3903	Female	B	2000 ppm	-0.02	0.891	0.44

ID	Animal identification
CONC	Exposure concentration
ABR30P	ABR tone 30kHz 1.5-5.5 ms, latency difference from control template
ABR30C	ABR tone 30kHz 1.5-5.5 ms, optimized cross-correlation value (r)
ABR30Pw	ABR tone 30kHz 1.5-5.5 ms, power (RMS μ V)

Appendix N: CNAP Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPSP</u>	<u>CNAPSC</u>	<u>CNAPSPw</u>
90A3792	Male	A	0 ppm	0.04	0.948	15.59
90A3793	Male	A	0 ppm	0.00	0.964	10.95
90A3795	Male	A	0 ppm	-0.44	0.871	16.14
90A3796	Male	A	0 ppm	0.36	0.959	11.88
90A3797	Male	A	0 ppm	0.12	0.975	15.81
90A3798	Male	A	0 ppm	0.20	0.972	8.96
90A3799	Male	B	0 ppm	0.72	0.852	10.56
90A3800	Male	B	0 ppm	-0.08	0.949	20.94
90A3802	Male	B	0 ppm	-0.08	0.983	27.19
90A3803	Male	B	0 ppm	-0.28	0.933	13.93
90A3804	Male	B	0 ppm	0.16	0.951	20.66
90A3805	Male	B	0 ppm	0.28	0.949	11.45
90A3806	Male	A	200 ppm	-0.08	0.987	11.64
90A3807	Male	A	200 ppm	-0.08	0.930	20.13
90A3808	Male	A	200 ppm	-0.04	0.970	7.25
90A3809	Male	A	200 ppm	0.16	0.916	15.11
90A3810	Male	A	200 ppm	0.16	0.873	14.77
90A3811	Male	A	200 ppm	-0.16	0.931	15.02
90A3813	Male	B	200 ppm	-0.08	0.984	17.69
90A3814	Male	B	200 ppm	-0.28	0.940	19.21
90A3815	Male	B	200 ppm	-0.20	0.977	19.36
90A3817	Male	B	200 ppm	0.08	0.947	18.99
90A3818	Male	B	200 ppm	-0.28	0.962	22.82
90A3819	Male	B	200 ppm	-0.20	0.954	19.28
90A3820	Male	A	630 ppm	0.12	0.981	8.16
90A3821	Male	A	630 ppm	0.32	0.930	7.44
90A3822	Male	A	630 ppm	0.28	0.969	11.81
90A3823	Male	A	630 ppm	0.00	0.981	14.85
90A3824	Male	A	630 ppm	0.32	0.864	12.13
90A3825	Male	A	630 ppm	-0.16	0.976	14.86
90A3828	Male	B	630 ppm	0.72	0.912	6.06
90A3829	Male	B	630 ppm	-0.12	0.983	16.17
90A3830	Male	B	630 ppm	0.12	0.993	19.34
90A3831	Male	B	630 ppm	0.12	0.933	10.35

ID Animal identification
 CONC Exposure concentration
 CNAPSP CNAP single pulse 2.8-7.4 ms, latency difference from control template
 CNAPSC CNAP single pulse 2.8-7.4 ms, optimized cross-correlation value (r)
 CNAPSPw CNAP single pulse 2.8-7.4 ms, power (RMS μ V)

Appendix N, continued: CNAP Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPSP</u>	<u>CNAPSC</u>	<u>CNAPSP_w</u>
90A3832	Male	B	630 ppm	-0.04	0.953	20.69
90A3833	Male	B	630 ppm	-0.20	0.968	12.09
90A3834	Male	A	2000 ppm	-0.12	0.967	10.91
90A3837	Male	A	2000 ppm	0.16	0.945	11.24
90A3838	Male	A	2000 ppm	0.00	0.937	12.48
90A3839	Male	A	2000 ppm	-0.12	0.948	12.19
90A3840	Male	A	2000 ppm	0.16	0.892	18.79
90A3841	Male	B	2000 ppm	0.04	0.961	13.88
90A3842	Male	B	2000 ppm	-0.04	0.986	17.70
90A3843	Male	B	2000 ppm	0.04	0.951	10.89
90A3844	Male	B	2000 ppm	0.12	0.937	12.70
90A3845	Male	B	2000 ppm	0.84	0.960	5.96
90A3847	Male	B	2000 ppm	-0.36	0.905	17.61
90A3848	Female	A	0 ppm	0.40	0.955	14.22
90A3849	Female	A	0 ppm	0.16	0.987	17.32
90A3850	Female	A	0 ppm	-0.04	0.989	21.02
90A3851	Female	A	0 ppm	-0.12	0.987	25.33
90A3852	Female	A	0 ppm	-0.16	0.918	11.89
90A3853	Female	A	0 ppm	0.04	0.988	17.16
90A3855	Female	B	0 ppm	0.12	0.991	19.55
90A3856	Female	B	0 ppm	0.00	0.989	17.84
90A3857	Female	B	0 ppm	-0.12	0.991	21.16
90A3859	Female	B	0 ppm	-0.12	0.947	19.38
90A3860	Female	B	0 ppm	0.12	0.995	16.12
90A3861	Female	B	0 ppm	-0.04	0.974	11.66
90A3862	Female	A	200 ppm	0.32	0.976	18.96
90A3863	Female	A	200 ppm	0.28	0.988	17.08
90A3864	Female	A	200 ppm	0.76	0.895	10.28
90A3865	Female	A	200 ppm	-0.16	0.994	23.43
90A3867	Female	A	200 ppm	0.04	0.930	15.72
90A3868	Female	A	200 ppm	0.16	0.750	8.49
90A3869	Female	B	200 ppm	-0.28	0.928	19.77
90A3870	Female	B	200 ppm	0.00	0.988	18.36
90A3872	Female	B	200 ppm	-0.32	0.886	18.61

ID Animal identification
 CONC Exposure concentration
 CNAPSP CNAP single pulse 2.8-7.4 ms, latency difference from control template
 CNAPSC CNAP single pulse 2.8-7.4 ms, optimized cross-correlation value (r)
 CNAPSP_w CNAP single pulse 2.8-7.4 ms, power (RMS μ V)

Appendix N, continued: CNAP Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPSP</u>	<u>CNAPSC</u>	<u>CNAPSPw</u>
90A3873	Female	B	200 ppm	0.12	0.950	16.61
90A3874	Female	B	200 ppm	0.28	0.972	22.21
90A3875	Female	B	200 ppm	0.36	0.959	14.38
90A3876	Female	A	630 ppm	0.28	0.980	13.68
90A3877	Female	A	630 ppm	-0.16	0.982	21.39
90A3878	Female	A	630 ppm	0.08	0.979	21.88
90A3879	Female	A	630 ppm	-0.28	0.983	18.82
90A3880	Female	A	630 ppm	0.40	0.906	12.00
90A3881	Female	A	630 ppm	0.32	0.944	6.81
90A3883	Female	B	630 ppm	0.00	0.972	25.34
90A3884	Female	B	630 ppm	-0.08	0.961	27.63
90A3885	Female	B	630 ppm	0.08	0.975	20.00
90A3886	Female	B	630 ppm	0.04	0.967	19.08
90A3887	Female	B	630 ppm	-0.24	0.977	27.41
90A3888	Female	B	630 ppm	-0.12	0.976	25.85
90A3890	Female	A	2000 ppm	-0.20	0.926	23.60
90A3891	Female	A	2000 ppm	0.08	0.980	15.54
90A3892	Female	A	2000 ppm	0.04	0.965	17.96
90A3893	Female	A	2000 ppm	0.00	0.873	3.14
90A3895	Female	A	2000 ppm	-0.20	0.964	28.02
90A3897	Female	B	2000 ppm	-0.24	0.940	21.25
90A3898	Female	B	2000 ppm	0.04	0.989	10.95
90A3899	Female	B	2000 ppm	-0.08	0.887	31.39
90A3900	Female	B	2000 ppm	0.16	0.952	19.34
90A3901	Female	B	2000 ppm	-0.16	0.970	22.95
90A3902	Female	B	2000 ppm	0.24	0.984	13.31
90A3903	Female	B	2000 ppm	0.08	0.961	6.19

ID Animal identification
 CONC Exposure concentration
 CNAPSP CNAP single pulse 2.8-7.4 ms, latency difference from control template
 CNAPSC CNAP single pulse 2.8-7.4 ms, optimized cross-correlation value (r)
 CNAPSPw CNAP single pulse 2.8-7.4 ms, power (RMS μ V)

Appendix N, continued: CNAP Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPPP</u>	<u>CNAPPC</u>	<u>CNAPPP_w</u>
90A3792	Male	A	0 ppm	0.00	0.894	12.90
90A3793	Male	A	0 ppm	-0.08	0.940	8.75
90A3795	Male	A	0 ppm	-0.40	0.940	14.50
90A3796	Male	A	0 ppm	0.48	0.978	8.50
90A3797	Male	A	0 ppm	0.16	0.965	13.25
90A3798	Male	A	0 ppm	0.68	0.945	4.11
90A3799	Male	B	0 ppm	0.92	0.917	8.28
90A3800	Male	B	0 ppm	0.04	0.971	15.51
90A3802	Male	B	0 ppm	-0.04	0.960	21.26
90A3803	Male	B	0 ppm	-0.32	0.982	13.81
90A3804	Male	B	0 ppm	0.12	0.889	14.29
90A3805	Male	B	0 ppm	0.40	0.858	7.82
90A3806	Male	A	200 ppm	-0.16	0.965	10.43
90A3807	Male	A	200 ppm	-0.08	0.868	15.28
90A3808	Male	A	200 ppm	-0.08	0.958	5.32
90A3809	Male	A	200 ppm	0.36	0.945	11.30
90A3810	Male	A	200 ppm	0.16	0.909	11.38
90A3811	Male	A	200 ppm	-0.12	0.919	10.53
90A3813	Male	B	200 ppm	-0.12	0.967	15.22
90A3814	Male	B	200 ppm	-0.24	0.956	16.80
90A3815	Male	B	200 ppm	0.04	0.954	10.79
90A3817	Male	B	200 ppm	0.20	0.906	12.42
90A3818	Male	B	200 ppm	-0.28	0.930	21.68
90A3819	Male	B	200 ppm	-0.16	0.931	15.05
90A3820	Male	A	630 ppm	0.20	0.987	6.60
90A3821	Male	A	630 ppm	0.32	0.982	6.97
90A3822	Male	A	630 ppm	0.28	0.948	10.03
90A3823	Male	A	630 ppm	-0.12	0.960	12.60
90A3824	Male	A	630 ppm	0.40	0.643 ^b	8.12
90A3825	Male	A	630 ppm	-0.24	0.894	11.28
90A3828	Male	B	630 ppm	0.00	0.202	2.89
90A3829	Male	B	630 ppm	0.04	0.976	11.96
90A3830	Male	B	630 ppm	0.12	0.980	13.83

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
CNAPPP	CNAP paired pulse 6.0-10.0 ms, latency difference from control template
CNAPPC	CNAP paired pulse 6.0-10.0 ms, optimized cross-correlation value (r)
CNAPPP _w	CNAP paired pulse 6.0-10.0 ms, power (RMS μ V)

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Appendix N, continued: CNAP Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPPP</u>	<u>CNAPPC</u>	<u>CNAPPP_w</u>
90A3831	Male	B	630 ppm	0.32	0.845	5.60
90A3832	Male	B	630 ppm	-0.12	0.956	19.23
90A3833	Male	B	630 ppm	-0.12	0.952	8.50
90A3834	Male	A	2000 ppm	-0.12	0.950	9.18
90A3837	Male	A	2000 ppm	0.20	0.948	7.49
90A3838	Male	A	2000 ppm	0.08	0.948	10.39
90A3839	Male	A	2000 ppm	-0.08	0.923	10.27
90A3840	Male	A	2000 ppm	0.20	0.872	16.60
90A3841	Male	B	2000 ppm	0.12	0.859	9.68
90A3842	Male	B	2000 ppm	-0.04	0.987	12.65
90A3843	Male	B	2000 ppm	0.04	0.956	6.14
90A3844	Male	B	2000 ppm	0.24	0.700	7.39
90A3845	Male	B	2000 ppm	0.20	0.172 ^b	2.54
90A3847	Male	B	2000 ppm	-0.40	0.907	13.93
90A3848	Female	A	0 ppm	0.52	0.896	7.75
90A3849	Female	A	0 ppm	0.24	0.991	13.66
90A3850	Female	A	0 ppm	-0.08	0.979	14.00
90A3851	Female	A	0 ppm	-0.12	0.986	21.74
90A3852	Female	A	0 ppm	-0.16	0.979	10.70
90A3853	Female	A	0 ppm	0.04	0.986	13.03
90A3855	Female	B	0 ppm	0.08	0.979	14.20
90A3856	Female	B	0 ppm	-0.04	0.946	8.60
90A3857	Female	B	0 ppm	-0.08	0.978	19.42
90A3859	Female	B	0 ppm	-0.08	0.938	15.17
90A3860	Female	B	0 ppm	0.20	0.964	11.64
90A3861	Female	B	0 ppm	-0.04	0.869	5.63
90A3862	Female	A	200 ppm	0.36	0.960	14.70
90A3863	Female	A	200 ppm	0.28	0.979	12.60
90A3864	Female	A	200 ppm	0.88	0.863	6.30
90A3865	Female	A	200 ppm	-0.16	0.970	18.96
90A3867	Female	A	200 ppm	0.04	0.983	12.11
90A3868	Female	A	200 ppm	0.08	0.878	6.08
90A3869	Female	B	200 ppm	-0.32	0.904	15.96

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
CNAPPP	CNAP paired pulse 6.0-10.0 ms, latency difference from control template
CNAPPC	CNAP paired pulse 6.0-10.0 ms, optimized cross-correlation value (r)
CNAPPP _w	CNAP paired pulse 6.0-10.0 ms, power (RMS μ V)

Appendix N, continued: CNAP Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CNAPPP</u>	<u>CNAPPC</u>	<u>CNAPPP_w</u>
90A3870	Female	B	200 ppm	0.00	0.992	14.65
90A3872	Female	B	200 ppm	-0.24	0.929	15.83
90A3873	Female	B	200 ppm	0.16	0.919	13.26
90A3874	Female	B	200 ppm	0.28	0.906	14.09
90A3875	Female	B	200 ppm	0.28	0.965	8.20
90A3876	Female	A	630 ppm	0.32	0.969	10.32
90A3877	Female	A	630 ppm	-0.16	0.932	18.97
90A3878	Female	A	630 ppm	0.12	0.974	15.88
90A3879	Female	A	630 ppm	-0.28	0.978	13.25
90A3880	Female	A	630 ppm	0.36	0.949	7.85
90A3881	Female	A	630 ppm	0.52	0.758	2.88
90A3883	Female	B	630 ppm	0.00	0.942	20.22
90A3884	Female	B	630 ppm	-0.04	0.944	20.32
90A3885	Female	B	630 ppm	0.16	0.995	16.33
90A3886	Female	B	630 ppm	0.04	0.981	14.78
90A3887	Female	B	630 ppm	-0.28	0.983	25.07
90A3888	Female	B	630 ppm	-0.08	0.948	20.61
90A3890	Female	A	2000 ppm	-0.16	0.907	17.93
90A3891	Female	A	2000 ppm	0.04	0.981	12.16
90A3892	Female	A	2000 ppm	0.08	0.983	14.60
90A3893	Female	A	2000 ppm	0.00	0.589 ^b	2.85
90A3895	Female	A	2000 ppm	-0.16	0.989	25.20
90A3897	Female	B	2000 ppm	-0.28	0.969	15.86
90A3898	Female	B	2000 ppm	0.00	0.928	7.55
90A3899	Female	B	2000 ppm	-0.08	0.897	21.16
90A3900	Female	B	2000 ppm	0.20	0.880	13.53
90A3901	Female	B	2000 ppm	-0.08	0.963	17.06
90A3902	Female	B	2000 ppm	0.32	0.868	6.85
90A3903	Female	B	2000 ppm	0.40	0.682	1.98

^b Outlier by F-Max test, see Table 38.

ID	Animal identification
CONC	Exposure concentration
CNAPPP	CNAP paired pulse 6.0-10.0 ms, latency difference from control template
CNAPPC	CNAP paired pulse 6.0-10.0 ms, optimized cross-correlation value (r)
CNAPPP _w	CNAP paired pulse 6.0-10.0 ms, power (RMS μ V)

Appendix O: CFR Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CFRS</u>	<u>CFRN</u>	<u>CFRR</u>
90A3792	Male	A	0 ppm	5.41	3.33	2.64
90A3793	Male	A	0 ppm	2.81	2.29	1.51
90A3795	Male	A	0 ppm	3.31	2.31	2.05
90A3796	Male	A	0 ppm	3.33	2.14	2.42
90A3797	Male	A	0 ppm	4.56	3.94	1.34
90A3798	Male	A	0 ppm	3.31	3.20	1.07
90A3799	Male	B	0 ppm	2.71	3.37	0.65
90A3800	Male	B	0 ppm	3.33	3.32	1.01
90A3802	Male	B	0 ppm	2.76	2.51	1.21
90A3803	Male	B	0 ppm	3.93	3.63	1.17
90A3804	Male	B	0 ppm	3.87	4.76	0.66
90A3805	Male	B	0 ppm	4.30	2.74	2.46
90A3806	Male	A	200 ppm	3.28	2.52	1.69
90A3807	Male	A	200 ppm	2.81	3.61	0.61
90A3808	Male	A	200 ppm	2.95	3.00	0.97
90A3809	Male	A	200 ppm	2.95	2.02	2.13
90A3810	Male	A	200 ppm	3.13	2.17	2.08
90A3811	Male	A	200 ppm	3.37	4.20	0.64
90A3813	Male	B	200 ppm	2.40	2.93	0.67
90A3814	Male	B	200 ppm	2.38	2.98	0.64
90A3815	Male	B	200 ppm	2.89	6.28	0.21
90A3817	Male	B	200 ppm	3.46	3.62	0.91
90A3818	Male	B	200 ppm	2.55	3.64	0.49
90A3819	Male	B	200 ppm	3.54	3.09	1.31
90A3820	Male	A	630 ppm	3.79	2.84	1.78
90A3821	Male	A	630 ppm	3.75	1.89	3.94
90A3822	Male	A	630 ppm	3.25	3.91	0.69
90A3823	Male	A	630 ppm	3.12	3.97	0.62
90A3824	Male	A	630 ppm	3.30	1.81	3.32
90A3825	Male	A	630 ppm	2.31	3.36	0.47
90A3828	Male	B	630 ppm	3.01	1.91	2.48
90A3829	Male	B	630 ppm	2.50	4.39	0.32
90A3830	Male	B	630 ppm	3.62	3.96	0.84
90A3831	Male	B	630 ppm	2.23	3.71	0.36

ID Animal identification
CONC Exposure concentration
CFRS CFR signal
CFRN CFR noise
CFRR CFR signal to noise ratio

Appendix O, continued: CFR Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CFRS</u>	<u>CFRN</u>	<u>CFRR</u>
90A3832	Male	B	630 ppm	3.51	5.27	0.44
90A3833	Male	B	630 ppm	2.42	4.10	0.35
90A3834	Male	A	2000 ppm	4.19	2.42	3.00
90A3837	Male	A	2000 ppm	3.07	4.80	0.41
90A3838	Male	A	2000 ppm	3.21	3.55	0.82
90A3839	Male	A	2000 ppm	3.28	4.27	0.59
90A3840	Male	A	2000 ppm	5.27	4.70	1.26
90A3841	Male	B	2000 ppm	4.67	3.37	1.92
90A3842	Male	B	2000 ppm	3.46	1.92	3.25
90A3843	Male	B	2000 ppm	3.37	2.54	1.76
90A3844	Male	B	2000 ppm	4.99	3.12	2.56
90A3845	Male	B	2000 ppm	2.97	2.79	1.13
90A3847	Male	B	2000 ppm	3.78	4.13	0.84
90A3848	Female	A	0 ppm	3.28	4.10	0.64
90A3849	Female	A	0 ppm	4.17	5.21	0.64
90A3850	Female	A	0 ppm	2.35	4.63	0.26
90A3851	Female	A	0 ppm	4.94	3.05	2.62
90A3852	Female	A	0 ppm	2.67	3.02	0.78
90A3853	Female	A	0 ppm	2.78	3.64	0.58
90A3855	Female	B	0 ppm	2.93	3.34	0.77
90A3856	Female	B	0 ppm	3.66	3.39	1.17
90A3857	Female	B	0 ppm	5.96	2.62	5.17
90A3859	Female	B	0 ppm	4.24	2.87	2.18
90A3860	Female	B	0 ppm	3.31	1.85	3.20
90A3861	Female	B	0 ppm	3.76	3.73	1.02
90A3862	Female	A	200 ppm	5.06	2.08	5.92
90A3863	Female	A	200 ppm	2.78	3.62	0.59
90A3864	Female	A	200 ppm	4.10	2.77	2.19
90A3865	Female	A	200 ppm	1.96	3.83	0.26
90A3867	Female	A	200 ppm	3.51	4.17	0.71
90A3868	Female	A	200 ppm	4.64	4.12	1.27
90A3869	Female	B	200 ppm	2.78	7.95	0.12
90A3870	Female	B	200 ppm	4.83	1.88	6.60
90A3872	Female	B	200 ppm	4.32	3.51	1.51

ID Animal identification
 CONC Exposure concentration
 CFRS CFR signal
 CFRN CFR noise
 CFRR CFR signal to noise ratio

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Appendix O, continued: CFR Data

<u>ID</u>	<u>SEX</u>	<u>GROUP</u>	<u>CONC</u>	<u>CFRS</u>	<u>CFRN</u>	<u>CFRR</u>
90A3873	Female	B	200 ppm	7.28	4.87	2.23
90A3874	Female	B	200 ppm	3.67	2.43	2.28
90A3875	Female	B	200 ppm	5.09	3.32	2.35
90A3876	Female	A	630 ppm	2.82	4.35	0.42
90A3877	Female	A	630 ppm	3.82	2.87	1.77
90A3878	Female	A	630 ppm	4.91	4.04	1.48
90A3879	Female	A	630 ppm	2.30	2.75	0.70
90A3880	Female	A	630 ppm	2.73	1.53	3.18
90A3881	Female	A	630 ppm	4.13	3.79	1.19
90A3883	Female	B	630 ppm	3.88	3.48	1.24
90A3884	Female	B	630 ppm	2.73	7.78	0.12
90A3885	Female	B	630 ppm	2.65	3.82	0.48
90A3886	Female	B	630 ppm	4.33	1.82	5.66
90A3887	Female	B	630 ppm	3.35	2.91	1.33
90A3888	Female	B	630 ppm	5.10	3.88	1.73
90A3890	Female	A	2000 ppm	11.51	4.41	6.81
90A3891	Female	A	2000 ppm	2.84	3.71	0.59
90A3892	Female	A	2000 ppm	2.56	1.56	2.69
90A3893	Female	A	2000 ppm	4.03	4.51	0.80
90A3895	Female	A	2000 ppm	1.91	2.07	0.85
90A3897	Female	B	2000 ppm	5.48	5.50	0.99
90A3898	Female	B	2000 ppm	3.64	3.31	1.21
90A3899	Female	B	2000 ppm	2.59	3.02	0.74
90A3900	Female	B	2000 ppm	3.33	5.57	0.36
90A3901	Female	B	2000 ppm	2.60	2.45	1.13
90A3902	Female	B	2000 ppm	4.66	4.60	1.03
90A3903	Female	B	2000 ppm	3.03	3.03	1.00

ID Animal identification
CONC Exposure concentration
CFRS CFR signal
CFRN CFR noise
CFRR CFR signal to noise ratio

Appendix P: Brain Weight Data

<u>ID</u>	<u>SEX</u>	<u>CONC</u>	<u>GROUP</u>	<u>BWTNEC</u>	<u>BRNWT</u>
90A3793	Male	0 ppm	A	301.8	1.773
90A3796	Male	0 ppm	A	268.6	1.801
90A3798	Male	0 ppm	A	307.4	1.917
90A3804	Male	0 ppm	B	319.7	1.937
90A3805	Male	0 ppm	B	294.2	1.902
90A3807	Male	200 ppm	A	308.9	1.787
90A3811	Male	200 ppm	A	347.0	1.854
90A3813	Male	200 ppm	B	311.6	1.862
90A3814	Male	200 ppm	B	293.6	1.821
90A3819	Male	200 ppm	B	308.0	1.783
90A3821	Male	630 ppm	A	290.6	1.775
90A3825	Male	630 ppm	A	300.8	1.805
90A3826	Male	630 ppm	A	304.3	1.858
90A3830	Male	630 ppm	B	261.0	1.709
90A3833	Male	630 ppm	B	325.7	1.896
90A3837	Male	2000 ppm	A	345.1	1.873
90A3838	Male	2000 ppm	A	290.4	1.925
90A3841	Male	2000 ppm	B	328.5	1.809
90A3844	Male	2000 ppm	B	331.7	1.853
90A3845	Male	2000 ppm	B	306.7	1.928

ID Animal identification
CONC Exposure concentration
GROUP Group B started one week after Group A.
BWTNEC Body weight at necropsy
BRNWT Brain weight

Appendix P, continued: Brain Weight Data

<u>ID</u>	<u>SEX</u>	<u>CONC</u>	<u>GROUP</u>	<u>BWTNEC</u>	<u>BRNWT</u>
90A3852	Female	0 ppm	A	174.9	1.610
90A3854	Female	0 ppm	A	174.6	1.719
90A3855	Female	0 ppm	B	175.8	1.721
90A3856	Female	0 ppm	B	174.6	1.688
90A3857	Female	0 ppm	B	169.8	1.708
90A3862	Female	200 ppm	A	172.7	1.714
90A3864	Female	200 ppm	A	166.6	1.658
90A3865	Female	200 ppm	A	163.4	1.664
90A3869	Female	200 ppm	B	171.5	1.757
90A3875	Female	200 ppm	B	177.4	1.725
90A3877	Female	630 ppm	A	184.6	1.655
90A3882	Female	630 ppm	A	180.5	1.697
90A3883	Female	630 ppm	B	161.0	1.723
90A3885	Female	630 ppm	B	163.1	1.684
90A3886	Female	630 ppm	B	158.3	1.665
90A3891	Female	2000 ppm	A	173.2	1.680
90A3892	Female	2000 ppm	A	174.8	1.697
90A3893	Female	2000 ppm	A	177.3	1.782
90A3897	Female	2000 ppm	B	169.0	1.697
90A3901	Female	2000 ppm	B	172.1	1.701

ID Animal identification
CONC Exposure concentration
GROUP Group B started one week after Group A.
BWTNEC Body weight at necropsy
BRNWT Brain weight

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3792	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 319.3

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3792

ANIMAL NUMBER: 90A3793	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 301.8

ORGAN WEIGHTS (GRAMS):

BRAIN
1.773

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3793

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1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3794	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SPONTANEOUS	ROUTE: INHALATION
		NECROPSY DATE: 07/31/90 (DAY 64)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

GENERAL

CONGESTION, VISCERA

GENERAL COMMENT

CAUSE OF DEATH WAS NOT DETERMINED.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3794

ANIMAL NUMBER: 90A3795	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 325.7

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3795

SL 031050

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3796	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 268.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.801

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3796

ANIMAL NUMBER: 90A3797	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 321.2

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3797

SL 031051

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3798	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 307.4

ORGAN WEIGHTS (GRAMS):

BRAIN
1.917

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3798

ANIMAL NUMBER: 90A3806	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 383.9

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3806

SL 031052

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3807	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 308.9

ORGAN WEIGHTS (GRAMS):

BRAIN
1.787

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3807

ANIMAL NUMBER: 90A3808	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 347.4

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3808

SL 031053

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3809	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 317.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3809

ANIMAL NUMBER: 90A3810	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200	PPM	MODE OF DEATH: SPONTANEOUS	ROUTE: INHALATION
		NECROPSY DATE: 10/01/90 (DAY 126)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

GENERAL

CONGESTION, VISCERA

GENERAL COMMENT

THE CAUSE OF DEATH WAS UNDETERMINED.

THE CARCASS WAS AUTOLYZED.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3810

SL 031054

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
Study ID: K-001716-091
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3811	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 347.0

ORGAN WEIGHTS (GRAMS):

BRAIN
1.854

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3811

ANIMAL NUMBER: 90A3812	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 354.9

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN

ABSCCESS, HEAD, FOCAL

COMMENT: THERE IS PURULENT EXUDATE UNDERLYING AND
SURROUNDING THE BASE OF THE ACRYLIC CAP.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3812

SL 031055

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3820	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 333.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3820

ANIMAL NUMBER: 90A3821	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 290.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.775

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3821

SL 031056

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3822	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630	PPM	MODE OF DEATH: MORIBUND	ROUTE: INHALATION
		NECROPSY DATE: 10/01/90 (DAY 126)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

DIGESTIVE TRACT
CONTENTS - DARK
GAS

GENERAL

FAT - DECREASED AMOUNT

ORAL TISSUES

ULCER, GINGIVA

FRACTURED/MISSING TEETH, UPPER INCISORS, BILATERAL

STOMACH

EROSION(S) AND/OR ULCER(S), GLANDULAR MUCOSA, MULTIFOCAL

GENERAL COMMENT

THE MORIBUND CONDITION IS RELATED TO THE LOSS OF THE UPPER
INCISORS, AND THE GINGIVAL ULCERATION.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3822

SL 031057

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3823	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 348.9

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3823

ANIMAL NUMBER: 90A3824	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 337.6

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3824

SL 031058

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3825	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 300.8

ORGAN WEIGHTS (GRAMS):

BRAIN
1.805

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN

ABSCCESS, HEAD, FOCAL

COMMENT: THERE IS PURULENT EXUDATE UNDERLYING AND
SURROUNDING THE BASE OF ONE ELECTRODE LOCATED ON THE
ANTERIOR POLE OF THE ACRYLIC CAP. THE EXUDATE IS BETWEEN
THE DERMIS AND CALVARIAL BONE.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3825

SL 031059

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3826	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 304.3

ORGAN WEIGHTS (GRAMS):

BRAIN
1.858

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3826

ANIMAL NUMBER: 90A3834	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 341.6

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3834

SL 031060

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3835	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	SPECIES: RAT
		NECROPSY DATE: 10/09/90 (DAY 134)	

FINAL BODY WEIGHT (GRAMS): 346.9

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3835

ANIMAL NUMBER: 90A3836	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	SPECIES: RAT
		NECROPSY DATE: 08/29/90 (DAY 93)	

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN

HEMORRHAGE, HEAD

COMMENT: THE HEMORRHAGE RESULTED FROM LOSS OF THE
EPIDURAL ELECTRODES.

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO STUDY TERMINATION DUE
TO LOSS OF THE EPIDURAL ELECTRODES.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3836

SL 031061

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3837	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 345.1

ORGAN WEIGHTS (GRAMS):

BRAIN
1.873

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3837 !

ANIMAL NUMBER: 90A3838	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 290.4

ORGAN WEIGHTS (GRAMS):

BRAIN
1.925

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3838 !

SL 031062

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3839	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/27/90 (DAY 122)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO STUDY TERMINATION DUE
TO THE LOSS OF THE EPIDURAL ELECTRODE.

END OF REPORT FOR ANIMAL 90A3839

ANIMAL NUMBER: 90A3840	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 269.3

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3840

SL 031063

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3848 SEX: FEMALE TEST MATERIAL: 1,1,1-T DURATION: 19-WEEK
DOSE: 0 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 10/09/90 (DAY 134) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 175.0

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):
ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3848

ANIMAL NUMBER: 90A3849 SEX: FEMALE TEST MATERIAL: 1,1,1-T DURATION: 19-WEEK
DOSE: 0 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 10/09/90 (DAY 134) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 185.8

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):
ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3849

ANIMAL NUMBER: 90A3850 SEX: FEMALE TEST MATERIAL: 1,1,1-T DURATION: 19-WEEK
DOSE: 0 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 10/09/90 (DAY 134) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 185.3

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3850

SL 031064

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3851	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 175.3

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3851

ANIMAL NUMBER: 90A3852	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 174.9

ORGAN WEIGHTS (GRAMS):

BRAIN
1.610

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3852

SL 031065

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3853	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 181.1

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3853

ANIMAL NUMBER: 90A3854	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 174.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.719

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3854

SL 031066

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3862	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 172.7

ORGAN WEIGHTS (GRAMS):

BRAIN
1.714

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3862

ANIMAL NUMBER: 90A3863	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 180.1

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3863

SL 031067

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3864	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 166.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.658

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3864

ANIMAL NUMBER: 90A3865	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 163.4

ORGAN WEIGHTS (GRAMS):

BRAIN
1.664

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3865

SL 031068

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3866	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM	MODE OF DEATH: SPONTANEOUS	ROUTE: INHALATION	
	NECROPSY DATE: 08/02/90 (DAY 66)	SPECIES: RAT	

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

GENERAL

CONGESTION, VISCERA

GENERAL COMMENT

THE GROSS OBSERVATION OF GENERAL VISCERAL CONGESTION IS
CONSISTENT WITH THE CLINICAL DIAGNOSIS OF ANESTHETIC
DEATH.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3866

ANIMAL NUMBER: 90A3867	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 178.4

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3867

SL 031069

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3868 SEX: FEMALE TEST MATERIAL: 1,1,1-T DURATION: 19-WEEK
DOSE: 200 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 10/09/90 (DAY 134) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 167.9

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3868 !

ANIMAL NUMBER: 90A3876 SEX: FEMALE TEST MATERIAL: 1,1,1-T DURATION: 19-WEEK
DOSE: 630 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 10/09/90 (DAY 134) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 187.8

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3876 !

SL 031070

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3877	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 184.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.655

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN

ABSCCESS, HEAD, FOCAL

COMMENT: THERE IS PURULENT EXUDATE AROUND THE BASE OF THE
MOST CAUDAL ELECTRODE. THE EXUDATE IS LOCATED BETWEEN THE
DERMIS AND THE CALVARIAL BONE.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3877

ANIMAL NUMBER: 90A3878	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 172.6

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3878

SL 031071

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3879	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 190.8

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3879

ANIMAL NUMBER: 90A3880	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/18/90 (DAY 113)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO THE TERMINATION OF THE
RECOVERY PERIOD DUE TO LOSS OF THE ACRYLIC CAP.

END OF REPORT FOR ANIMAL 90A3880

SL 031072

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3881	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 177.8

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3881

ANIMAL NUMBER: 90A3882	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 180.5

ORGAN WEIGHTS (GRAMS):

BRAIN
1.697

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3882

SL 031073

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3890	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 180.1

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3890

ANIMAL NUMBER: 90A3891	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 173.2

ORGAN WEIGHTS (GRAMS):

BRAIN
1.680

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3891

SL 031074

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3892	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 174.8

ORGAN WEIGHTS (GRAMS):

BRAIN
1.697

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3892

ANIMAL NUMBER: 90A3893	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 177.3

ORGAN WEIGHTS (GRAMS):

BRAIN
1.782

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3893

SL 031075

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3894	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SPONTANEOUS	ROUTE: INHALATION
		NECROPSY DATE: 08/02/90 (DAY 66)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

GENERAL COMMENT

THE CAUSE OF DEATH WAS NOT DETERMINED.

END OF REPORT FOR ANIMAL 90A3894

ANIMAL NUMBER: 90A3895	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/09/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 187.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3895

SL 031076

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP A

ANIMAL NUMBER: 90A3896	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SPONTANEOUS	ROUTE: INHALATION	
	NECROPSY DATE: 08/03/90 (DAY 67)	SPECIES: RAT	

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

BONE

FRACTURE - RECENT, VERTEBRAL - THORACIC

HEMORRHAGE, CRANIAL CAVITY

COMMENT: THE FRACTURE IS LOCATED IN T3 AND/OR T4.

COMMENT: THERE IS A SMALL AMOUNT OF UNCLOTTED BLOOD IN
THE BASE OF THE CALVARIUM.

GENERAL

CONGESTION, VISCERA

LUNGS

CONGESTION

SPINAL CORD - THORACIC

HEMORRHAGE

THORACIC CAVITY

HEMOTHORAX

GENERAL COMMENT

TRAUMA RESULTING IN VERTEBRAL BODY FRACTURE AND HEMOTHORAX
(PROBABLY DUE TO BLOOD VESSEL RUPTURE) WAS THE CAUSE OF
DEATH.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3896

SL 031077

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3799	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 364.7

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3799

ANIMAL NUMBER: 90A3800	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 323.2

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3800

SL 031078

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3801	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/05/90 (DAY 93)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO STUDY TERMINATION DUE
TO LOSS OF THE EPIDURAL ELECTRODES.

END OF REPORT FOR ANIMAL 90A3801

ANIMAL NUMBER: 90A3802	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 306.2

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN

ABSCESS, HEAD, FOCAL

COMMENT: THERE IS PURULENT EXUDATE UNDERLYING AND
SURROUNDING THE ACRYLIC CAP. THE EXUDATE IS BETWEEN THE
DERMIS AND CALVARIAL BONE.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3802

SL 031079

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3803	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 343.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3803

ANIMAL NUMBER: 90A3804	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 319.7

ORGAN WEIGHTS (GRAMS):

BRAIN
1.937

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3804

SL 031080

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3805 SEX: MALE TEST MATERIAL: 1,1,1-T DURATION: 13-WEEK
DOSE: 0 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 09/13/90 (DAY 101) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 294.2

ORGAN WEIGHTS (GRAMS):

BRAIN
1.902

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3805

ANIMAL NUMBER: 90A3813 SEX: MALE TEST MATERIAL: 1,1,1-T DURATION: 13-WEEK
DOSE: 200 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 09/13/90 (DAY 101) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 311.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.862

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3813

SL 031081

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3814	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 293.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.821

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3814

ANIMAL NUMBER: 90A3815	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 327.0

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3815

SL 031082

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3816	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/06/90 (DAY 94)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN

PERINEAL SOILING

HEMORRHAGE, HEAD

COMMENT: THE HEMORRHAGE RESULTED FROM LOSS OF THE
EPIDURAL ELECTRODES.

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO THE STUDY TERMINATION
DUE TO THE LOSS OF THE EPIDURAL ELECTRODES.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3816

ANIMAL NUMBER: 90A3817	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 294.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3817

SL 031083

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3818	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 320.8

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

■ END OF REPORT FOR ANIMAL 90A3818 ■

ANIMAL NUMBER: 90A3819	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 308.0

ORGAN WEIGHTS (GRAMS):

BRAIN
1.783

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

■ END OF REPORT FOR ANIMAL 90A3819 ■

SL 031084

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3827	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM	MODE OF DEATH: SPONTANEOUS	ROUTE: INHALATION	
	NECROPSY DATE: 08/06/90 (DAY 63)	SPECIES: RAT	

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

GENERAL

CONGESTION, VISCERA

LARYNX

MUCUS, LUMEN

LUNGS

ATELECTASIS, BILATERAL, MULTIFOCAL

GENERAL COMMENT

THE CAUSE OF DEATH APPEARS TO BE RELATED TO DIFFICULT
BREATHING.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3827

ANIMAL NUMBER: 90A3828	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 365.7

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3828

SL 031085

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3829	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 331.1

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3829

ANIMAL NUMBER: 90A3830	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 261.0

ORGAN WEIGHTS (GRAMS):

BRAIN
1.709

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3830

SL 031086

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3831	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/10/90 (DAY 128)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO STUDY TERMINATION DUE
TO LOSS OF THE ACRYLIC CAP.

END OF REPORT FOR ANIMAL 90A3831

ANIMAL NUMBER: 90A3832	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 334.7

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3832

SL 031087

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3833	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 325.7

ORGAN WEIGHTS (GRAMS):

BRAIN
1.896

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

■ END OF REPORT FOR ANIMAL 90A3833 ■

ANIMAL NUMBER: 90A3841	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 328.5

ORGAN WEIGHTS (GRAMS):

BRAIN
1.809

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

■ END OF REPORT FOR ANIMAL 90A3841 ■

SL 031088

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3842	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 360.6

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3842

ANIMAL NUMBER: 90A3843	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 286.7

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN

ABSCESS, HEAD, FOCAL

COMMENT: THERE IS PURULENT EXUDATE UNDERLYING AND

SURROUNDING THE BASE OF THE ACRYLIC CAP. THE EXUDATE IS

BETWEEN THE DERMIS AND CALVARIAL BONE.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3843

SL 031089

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3844 SEX: MALE TEST MATERIAL: 1,1,1-T DURATION: 13-WEEK
DOSE: 2000 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 09/13/90 (DAY 101) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 331.7

ORGAN WEIGHTS (GRAMS):

BRAIN
1.853

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3844

ANIMAL NUMBER: 90A3845 SEX: MALE TEST MATERIAL: 1,1,1-T DURATION: 13-WEEK
DOSE: 2000 PPM MODE OF DEATH: SACRIFICED ROUTE: INHALATION
NECROPSY DATE: 09/13/90 (DAY 101) SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 306.7

ORGAN WEIGHTS (GRAMS):

BRAIN
1.928

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3845

SL 031090

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3846	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SPONTANEOUS	ROUTE: INHALATION
		NECROPSY DATE: 08/02/90 (DAY 59)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

GENERAL
CONGESTION, VISCERA
GENERAL COMMENT
THE CAUSE OF DEATH WAS NOT DETERMINED.
ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3846 !

ANIMAL NUMBER: 90A3847	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 329.7

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3847 !

SL 031091

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3855	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 175.8

ORGAN WEIGHTS (GRAMS):

BRAIN
1.721

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3855

ANIMAL NUMBER: 90A3856	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 174.6

ORGAN WEIGHTS (GRAMS):

BRAIN
1.688

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3856

SL 031092

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3857	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 169.8

ORGAN WEIGHTS (GRAMS):

BRAIN
1.708

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3857

ANIMAL NUMBER: 90A3858	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/06/90 (DAY 94)	SPECIES: RAT	

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EXTERNAL AND SKIN
PERINEAL SOILING
HEMORRHAGE, HEAD

COMMENT: THE HEMORRHAGE RESULTED FROM LOSS OF THE
EPIDURAL ELECTRODES.

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO STUDY TERMINATION DUE
TO THE LOSS OF THE EPIDURAL ELECTRODES.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3858

SL 031093

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3859	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/03/90 (DAY 121)	SPECIES: RAT	

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

UTERUS

STRANGULATED OR NECROTIC FAT, FOCAL

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO STUDY TERMINATION DUE
TO LOSS OF THE EPIDURAL ELECTRODES.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3859

ANIMAL NUMBER: 90A3860	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 170.2

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3860

SL 031094

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3861	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 0 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 168.4

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

EYES

OPACITY, LENS, LEFT

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3861

ANIMAL NUMBER: 90A3869	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 171.5

ORGAN WEIGHTS (GRAMS):

BRAIN

1.757

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3869

SL 031095

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3870	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 174.8

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3870

SL 031096

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3871	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/05/90 (DAY 93)	SPECIES: RAT

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

BONE

FRACTURE - RECENT, CRANIAL CAVITY

COMMENT: A 4MM X 4MM PIECE OF THE RIGHT PARIETAL BONE WAS
TRAUMATICALLY SEPARATED FROM THE SKULL DURING LOSS OF THE
EPIDURAL ELECTRODES.

BRAIN

HEMORRHAGE, CEREBRUM, RIGHT, FOCAL

EXTERNAL AND SKIN

HEMORRHAGE, HEAD

GENERAL COMMENT

THE ANIMAL WAS SACRIFICED PRIOR TO STUDY TERMINATION DUE
TO LOSS OF THE EPIDURAL ELECTRODES.

ALL LESIONS WERE THE RESULT OF TRAUMA ASSOCIATED WITH LOSS
OF THE EPIDURAL ELECTRODES.

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3871

SL 031097

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3872	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 171.3

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3872 !

ANIMAL NUMBER: 90A3873	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 180.4

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

PREPUTIAL OR CLITORAL GLANDS

ABSCCESS, UNILATERAL

ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

! END OF REPORT FOR ANIMAL 90A3873 !

SL 031098

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3874	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 171.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3874

ANIMAL NUMBER: 90A3875	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 200 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 177.4

ORGAN WEIGHTS (GRAMS):

BRAIN
1.725

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3875

SL 031099

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3883	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 161.0

ORGAN WEIGHTS (GRAMS):

BRAIN
1.723

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3883

ANIMAL NUMBER: 90A3884	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 179.2

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3884

SL 031100

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3885	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 163.1

ORGAN WEIGHTS (GRAMS):

BRAIN
1.684

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3885

ANIMAL NUMBER: 90A3886	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 158.3

ORGAN WEIGHTS (GRAMS):

BRAIN
1.665

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3886

SL 031101

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3887	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 177.1

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3887

ANIMAL NUMBER: 90A3888	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 183.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3888

SL 031102

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3889	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 630 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 177.8

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3889

ANIMAL NUMBER: 90A3897	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 169.0

ORGAN WEIGHTS (GRAMS):

BRAIN
1.697

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3897

SL 031103

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3898	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 176.2

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3898

ANIMAL NUMBER: 90A3899	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 174.4

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

URINARY BLADDER
CALCULUS(I), LUMEN
THICKENED, WALL

COMMENT: A LARGE CALCULUS FILLS THE BLADDER LUMEN. THE
THICKENED BLADDER WALL IS SECONDARY TO THE CALCULUS.
ALL OTHER TISSUES WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3899

SL 031104

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3900	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 170.5

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

■ END OF REPORT FOR ANIMAL 90A3900 ■

ANIMAL NUMBER: 90A3901	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 09/13/90 (DAY 101)	SPECIES: RAT

FINAL BODY WEIGHT (GRAMS): 172.1

ORGAN WEIGHTS (GRAMS):

BRAIN
1.701

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

■ END OF REPORT FOR ANIMAL 90A3901 ■

SL 031105

1,1,1-T subchronic neurotoxicity

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APPENDIX Q: GROSS PATHOLOGY, GROUP B

ANIMAL NUMBER: 90A3902	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 172.3

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3902

ANIMAL NUMBER: 90A3903	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 13-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 10/16/90 (DAY 134)	SPECIES: RAT	

FINAL BODY WEIGHT (GRAMS): 178.2

GROSS PATHOLOGIC OBSERVATIONS (COMPLETE NECROPSY PERFORMED):

ALL TISSUES WERE EXAMINED AND WERE WITHIN NORMAL LIMITS

END OF REPORT FOR ANIMAL 90A3903

SL 031106

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3792	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3792

ANIMAL NUMBER: 90A3793	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

GENERAL COMMENT

THE SPECIAL STAINS OF SILVER AND CRESYL ECHT
VIOLET-LFB-PAS WERE APPLIED TO EACH TISSUE WITH THE
EXCEPTION OF EYES, OPTIC NERVE (WHICH IS WITH EYE) AND
SKELETAL MUSCLE FROM EACH ANIMAL IN THIS GROUP.
UNLESS OTHERWISE SPECIFIED, NO ABNORMALITIES WERE DETECTED
IN THESE TISSUES USING THESE STAINS.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3793

SL 031107

1,1,1-T subchronic neurotoxicity

The Dow Chemical Company
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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3795	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3795

ANIMAL NUMBER: 90A3796	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3796

ANIMAL NUMBER: 90A3797	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3797

SL 031108

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3798	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL

COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF AN
ELECTRODE TOO DEEP IN THE MENINGES.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3798

SL 031109

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3799	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

■ END OF REPORT FOR ANIMAL 90A3799 ■

ANIMAL NUMBER: 90A3800	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

■ END OF REPORT FOR ANIMAL 90A3800 ■

SL 031110

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3804	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL

COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF AN
ELECTRODE TOO DEEP IN THE MENINGES.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3804

SL 031111

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3805	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - FOREBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL

COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF AN
ELECTRODE TOO DEEP IN THE MENINGES.

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL

COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF AN
ELECTRODE TOO DEEP IN THE MENINGES.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

! END OF REPORT FOR ANIMAL 90A3805 !

SL 031112

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3834	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3834

ANIMAL NUMBER: 90A3835	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3835

SL 031113

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3837	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

GENERAL COMMENT

THE SPECIAL STAINS OF SILVER AND CRESYL ECHT

VIOLET-LFB-PAS WERE APPLIED TO EACH TISSUE WITH THE
EXCEPTION OF EYES, OPTIC NERVE (WHICH IS ON THE EYE
SECTION) AND SKELETAL MUSCLE FROM EACH ANIMAL IN THIS
GROUP.

UNLESS OTHERWISE STATED, NO ABNORMALITIES WERE DETECTED IN
THESE TISSUES USING THESE STAINS.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

! END OF REPORT FOR ANIMAL 90A3837 !

SL 031114

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3838	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

! END OF REPORT FOR ANIMAL 90A3838 !

ANIMAL NUMBER: 90A3840	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

! END OF REPORT FOR ANIMAL 90A3840 !

SL 031115

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3841	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL

COMMENT: THE CHANGE IS DUE TO INADVERTENT PLACEMENT OF AN
ELECTRODE TOO DEEP INTO THE MENINGES.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3841

ANIMAL NUMBER: 90A3842	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3842

SL 031116

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3843	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT	

END OF REPORT FOR ANIMAL 90A3843

ANIMAL NUMBER: 90A3844	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT	

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3844

SL 031117

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, MALE

ANIMAL NUMBER: 90A3845	SEX: MALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION	
	NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT	

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL
COMMENT: THE INFLAMMATION IS DUE TO PLACEMENT OF AN
ELECTRODE TOO DEEP IN THE MENINGES.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3845

SL 031118

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3848	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3848

ANIMAL NUMBER: 90A3849	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3849

ANIMAL NUMBER: 90A3850	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3850

SL 031119

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3852	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL

COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF AN
ELECTRODE TOO DEEP IN THE MENINGES.

GENERAL COMMENT

THE SPECIAL STAINS OF SILVER AND CRESYL ECHT
VIOLET-LFB-PAS WERE APPLIED TO EACH TISSUE WITH THE
EXCEPTION OF EYES, OPTIC NERVE (WHICH IS ON THE EYE
SECTION) AND SKELETAL MUSCLE FROM EACH ANIMAL IN THIS
GROUP.

UNLESS OTHERWISE STATED, NO ABNORMALITIES WERE DETECTED IN
THESE TISSUES USING THESE STAINS.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3852

SL 031120

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3854	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3854

SL 031121

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3855	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, UNILATERAL, FOCAL

COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF AN
ELECTRODE TOO DEEP IN THE MENINGES.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3855

SL 031122

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3856	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

BRAIN - FOREBRAIN

ATROPHY, GRAY MATTER, UNILATERAL, FOCAL
INFLAMMATION - CHRONIC, MENINGES, BILATERAL, MULTIFOCAL
COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF
ELECTRODES TOO DEEP IN THE MENINGES.

COMMENT: THE ATROPHIED GRAY MATTER IS LOCATED IN THE
CEREBRAL CORTEX JUST BENEATH ONE OF THE INFLAMMATORY
MENINGEAL FOCI AND IS SECONDARY TO THE PRESSURE OF AN
ELECTRODE PLACED TOO DEEP.

BRAIN - MIDBRAIN

INFLAMMATION - CHRONIC, MENINGES, BILATERAL, MULTIFOCAL
COMMENT: THE INFLAMMATION IS SECONDARY TO PLACEMENT OF
ELECTRODES TOO DEEP IN THE MENINGES.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM,
BRAIN - MEDULLA OBLONGATA, BRAIN - PONS, DORSAL ROOT GANGLIA,
EYES, GASSERIAN GANGLIA, PERIPHERAL NERVE - OPTIC,
PERIPHERAL NERVE - SCIATIC, PERIPHERAL NERVE - SURAL,
PERIPHERAL NERVE - TIBIAL, SKELETAL MUSCLE,
SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3856

SL 031123

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3857	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3857

ANIMAL NUMBER: 90A3860	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3860

ANIMAL NUMBER: 90A3861	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 0	PPM	MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3861

SL 031124

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3890	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3890

ANIMAL NUMBER: 90A3891	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

GENERAL COMMENT

THE SPECIAL STAINS OF SILVER AND CRESYL ECHT
VIOLET-LFB-PAS WERE APPLIED TO EACH TISSUE WITH THE
EXCEPTION OF EYES, OPTIC NERVE (WHICH IS ON THE EYE
SECTION) AND SKELETAL MUSCLE FROM EACH ANIMAL IN THIS
GROUP.

UNLESS OTHERWISE STATED, NO ABNORMALITIES WERE DETECTED IN
THESE TISSUES USING THESE STAINS.

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3891

SL 031125

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3892	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3892

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1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3893	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

■ END OF REPORT FOR ANIMAL 90A3893 ■

ANIMAL NUMBER: 90A3895	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

■ END OF REPORT FOR ANIMAL 90A3895 ■

SL 031127

1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3897	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3897

ANIMAL NUMBER: 90A3898	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3898

ANIMAL NUMBER: 90A3899	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3899

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1,1,1-T subchronic neurotoxicity

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APPENDIX R: NEUROPATHOLOGY, FEMALE

ANIMAL NUMBER: 90A3900	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

END OF REPORT FOR ANIMAL 90A3900

ANIMAL NUMBER: 90A3901	SEX: FEMALE	TEST MATERIAL: 1,1,1-T	DURATION: 19-WEEK
DOSE: 2000 PPM		MODE OF DEATH: SACRIFICED	ROUTE: INHALATION
		NECROPSY DATE: 05/29/90 (DAY 1)	SPECIES: RAT

HISTOPATHOLOGIC OBSERVATIONS:

THE FOLLOWING TISSUES WERE WITHIN NORMAL LIMITS FOR HISTOPATHOLOGY
(EXCEPT FOR CHANGES RELATED TO ANY ABOVE OBSERVATIONS):

BRAIN - CEREBELLUM, BRAIN - CEREBRUM, BRAIN - FOREBRAIN,
BRAIN - MEDULLA OBLONGATA, BRAIN - MIDBRAIN, BRAIN - PONS,
DORSAL ROOT GANGLIA, EYES, GASSERIAN GANGLIA,
PERIPHERAL NERVE - OPTIC, PERIPHERAL NERVE - SCIATIC,
PERIPHERAL NERVE - SURAL, PERIPHERAL NERVE - TIBIAL,
SKELETAL MUSCLE, SPINAL CORD - CERVICAL, SPINAL CORD - LUMBAR,
SPINAL NERVE ROOTS

END OF REPORT FOR ANIMAL 90A3901

SL 031129