

Laboratory Report, Analysis of FCs in Samples of Children's Sera, May 21, 1999

The data submitted on perfluorooctanesulfonate contains analytic data when certain general conditions have been met. These are that final analytic data is available and that if this data is a component of a study, a report exists that combines the data and other parts of the study. Data that has not been integrated into a report, or pilot data, has generally not been included in the submission.

The attached is pilot data showing results from a limited number of human blood samples (pediatric samples from the University of Minnesota). This pilot was meant to determine that the analytic technique could be used on a small volume of serum. Although fluorochemical concentrations were above detection limits, no conclusions can be drawn from such a limited number of samples. The planned study will contain results from over 600 pediatric samples. The samples in this study will be run in a contract lab using a different blank under GLP conditions. The plan for this study has been previously submitted under cover of the April 21st letter to EPA.



Laboratory Report
Analysis of FCs in Samples of Children's Sera

Laboratory Report No. FACT-GEN-011
W1724

Testing Laboratory

3M Environmental Technology & Safety Services
3M Environmental Laboratory
Fluorine Analytical Chemistry Team (FACT)
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Requester

Geary Olsen and Jean Burris
3M Company
Occupational Medicine
220-3W-05
St. Paul, MN

1 Introduction

Samples were analyzed to provide a quantitative determination of PFOS and PFHS in a small number of samples of sera collected from children between the ages of 6 and 12. Additionally, samples were screened to provide qualitative data on the presence of several other fluorochemicals including PFDS, PFOSA, PFOSAA, M556, M570, POAA, M463, and M513 (Appendix C contains a list of acronyms).

Less than 100 μ L of sera were available for analysis. This small sample volume posed analytical restrictions and method detection limits for this study are significantly higher than reported in earlier studies.

Sera samples were extracted using an ion-pairing extraction procedure. The extracts were quantitatively analyzed for PFOS and PFHS using high-pressure liquid chromatography/electrospray tandem mass spectrometry (HPLC/ESMSMS), and evaluated versus an extracted curve. Qualitative analysis was conducted by comparing peak response in the samples to that obtained from standards, when possible. If standard material was not available, compound identification was based on reasonable HPLC-retention time and predicted mass spectrometer response. Analytical details are available in the study binder maintained by FACT.

Despite the increased detection limits that resulted from the small sample size, several fluorochemicals were detected in these sera samples. PFOS, PFHS, PFDS, POAA, and M463 were detected in each of the samples analyzed; for these analytes, the estimated detection limit is 3 ppb. PFOSAA, M556, and M570 were detected in some of the samples and the detection limit is estimated to be approximately 5 ppb. PFOSA and M513 were not detected in any sample above the estimated detection limit of 8 ppb and 12 ppb, respectively.

The average PFOS concentration was 54 ppb, covering a range of 31-115 ppb. These values are slightly higher than the average values observed previously for adults and some part of that (up to 10%) may be due to improvements to the modified method used to extract these samples.

The average PFHS level determined in these samples was 35 ppb across a range of 5-100 ppb. This average is approximately 10 times higher than the levels previously observed in a small set of adult sera samples. In those samples, the highest value determined in a non-3M worker was 13 ppb. It is unlikely that the minor modifications made to the analytical method could account for this dramatic difference between the two groups of samples.

- Although rigorous quality control measures and 3M Environmental Laboratory Standard Operating Procedures were followed, the acquisition of this data was not necessarily collected according to applicable Good Laboratory Practices. This data is not suitable for distribution to any government agency in defense of product suitability or safety. Data presented here is the highest quality data available at this time.

2 Sample Receipt

On 4/27/99, Jean Burris of 3M Occupational Medicine delivered sera samples to the Environmental Lab. Environmental Lab personnel initiated a chain-of-custody upon receipt of the samples.

3 Holding Times

There is no holding time criteria associated with these samples for LC/ESMSMS analysis.

4 Methods - Analytical and Preparatory

Analytical methods

ETS-8-4.0, Extraction of Potassium Perfluorooctanesulfonate or Other Fluorochemical Compounds from Serum or Other Fluid for Analysis Using HPLC-Electrospray/Mass Spectrometry

MODIFIED to accommodate small sample size. Reagent volumes were reduced and aqueous extracts were triple rinsed with MtBE. These modifications may result in slightly better analyte recoveries than those achieved using the original method.

ETS-8-5.0, Analysis of Potassium Perfluorooctanesulfonate or Other Fluorochemical on Serum or Other Fluid Using HPLC-Electrospray/Mass Spectrometry

MODIFIED for PFHS determination by comparing PFHS samples response to PFOS curves, as no standard PFHS was available. This substitution is likely to result in a slight UNDER estimation of PFHS levels.

Sample preparation - aqueous samples, HPLC/ESMSMS: ion-pairing extraction

Analyte is extracted from a sample matrix with ion pairing reagent [tetrabutyl ammonium hydrogen sulfate (TBA)] in a pH-controlled environment. The cationic reagent selectively targets anionic fluorochemicals. Once the anion-TBA pair is formed, the analyte is transferred into a non-polar organic solvent (methyl-*tert*-butyl ether), dried, and reconstituted in methanol for MS analysis.

HPLC/ESMSMS: for detailed qualitative work

In HPLC, an aliquot of extract is injected and passed through a reverse phase liquid chromatographic column. Based on the affinity of the analyte for the stationary phase in the column relative to the liquid mobile phase, the analyte is retained for a characteristic amount of time. For example, in a standard solution PFOS may elute at 8.0 minutes. Retention times between a standard PFOS solution and the analyte extracted from sera in this analysis were matched on the HPLC system to within 1%.

Following HPLC separation, ESMSMS provides a rapid and accurate means for analyzing a wide range of organic compounds, including fluorochemicals. Electrospray, an ionization technique used primarily for detection of molecular ions, is generally operated at relatively mild temperatures. Molecules are ionized, and a primary ion, characteristic of the analyte, is selected. This ion is bombarded with high-energy gas; subsequent collisions create smaller secondary ionic fragments unique to the primary ion, which are detected.

For example, for PFOS ($C_8F_{17}SO_3$) analysis, ion 499 is selected as the characteristic primary ion. This ion is fragmented into other ions such as 80 amu (corresponding to SO_3), and 230 amu ($C_3F_6SO_3$). Each of these secondary fragments is detected and can be used to differentiate PFOS from other compounds that might have the same characteristic 499 amu primary ion, but different chemical compositions and secondary ion fragmentation patterns.

5 Analysis

5.1 Calibration

For quantitative determinations, a mid-level, extracted matrix calibration check standard is analyzed every 5 samples to monitor instrumental drift. Calibration check standards are compliant if instrumental response is within +/- 10% of the expected value.

Quantitation of the target analytes is based on linear regression analysis (weighted 1/x) of two extracted matrix curves bracketing each group of samples. Quantitation of each analyte is based on the response of one or more specific daughter ions using the multiple response-monitoring mode of the instrument.

5.2 Blanks

Two extraction blanks, utilizing water as surrogate matrix, are extracted with each batch of samples. Additionally, two samples of blank matrix or surrogate matrix, used for the extracted calibration curves, are extracted along with each batch of samples and curves.

Blanks are compliant if no target analyte is detected above the limit of detection for a specific analyte. In this study, all blanks were compliant.

5.3 Surrogates

Tetra-hydro perfluorooctane sulfonate is used as a surrogate in this analysis. Surrogate response is monitored to confirm gross instrumental failure.

5.4 Matrix Spikes

Duplicate matrix spike analyses utilizing all target analytes for which quantitative data is presented were prepared and analyzed for one control animal. For sera analysis, recoveries were within the acceptable range of 85-115%.

5.5 Laboratory Control Samples

Laboratory Control Samples are not a component of this study.

5.6 Sample Related Comments

Due to limited sample volume, it was not possible to conduct matrix spike studies on any of these samples. Although the current understanding of the analytical methods indicate that rabbit serum is a suitable surrogate matrix, matrix spike studies for this matrix are recommended. Standard materials for PFDS and M463 were not available for compound identification at the time of analysis. Compound identification is based on reasonable retention time and mass spectral data consistent with compound structure.

6 Data Summary

Despite the increased detection limits that resulted from the small sample size, several fluorochemicals were detected in these sera samples. PFOS, PFHS, PFDS, POAA, and M463 were detected in each of the samples analyzed; for these analytes, the estimated detection limit is 3 ppb. PFOSAA, M556, and M570 were detected in some of the samples and the detection limit is estimated to be approximately 5 ppb. PFOSA and M513 were not detected in any sample above the estimated detection limit of 8 ppb and 12 ppb, respectively.

The average PFOS concentration was 54 ppb, covering a range of 31-115 ppb. These values are slightly higher than the average values observed previously for adults and may be due to improvements to the modified method used to extract these samples.

The average PFHS level determined in these samples was 35 ppb across a range of 5-100 ppb. This average is approximately 10 times higher than the levels previously observed in a small set of adult sera samples. In these samples from adults, the highest value determined in a non-3M worker was 13 ppb. It is unlikely that the minor modifications made to the analytical method could account for this dramatic difference between the two groups of samples.

This report reflects the most accurate data available at this time.

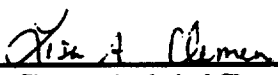
7 Data / Sample Retention

Samples and extracts will be retained for future evaluation, if necessary.

8 Attachments

- 8.1 Attachment A: Quantitative Results of PFOS and PFHS Determination
- 8.2 Attachment B: Qualitative Summary of FCs identified in Samples of Children's Sera
- 8.3 Attachment C: Table of FACT Acronyms
- 8.4 Attachment D: Chain of Custody
- 8.5 Attachment E: Analytical Data for PFOS and PFHS determination

9 Signatures

 5/21/99

Lisa Clemen, Analytical Chemist Date

 5/21/99

Kris Hansen, Ph.D., Study Director Date

Serum Data

Study: GEN011 PFOS and PFHS Extraction from serum
 Product Number(Test Substance): N/A
 Matrix: H. Serum
 Method/Revision: ETS-8-4. and ETS-8-5.0
 Analytical Equipment System Number: Amelia 062498
 Instrument Software/Version: Masslynx 3.2
 Filename: See listing to the right
 R-Squared Value: See Attachments
 Slope: See Attachments
 Y-Intercept: See Attachments
 Date of Extraction/Analyst: 04/28/99 RWW
 Date of Analysis/Analyst: 04/30/99 HOJ
 Date of Data Reduction/Analyst: 05/03/99 HOJ

FileNames

	PFOS	PFHS	Dilutions
Samples	043099018-30	043099018-30	1/1, 1/1, 1/1, 1/1
Samples	NA	NA	1/1, 1/1, 1/1, 1/1
MS/MSD	043099032-33	043099032-33	1/1, 1/1, 1/1, 1/1

Sample Data
Serum

Group Dose	Sample #	Extraction Vol. Ratio	PFOS Dilution Factor	PFOS Conc. ug/mL	PFOS Reported ug/mL	Average PFOS ug/mL	RSD Std. Dev.	PFHS Dilution Factor	PFHS Conc. ug/mL	PFHS Reported ug/mL	Average PFHS ug/mL	RSD Std. Dev.
Method Blk	H2O Blk-1	1.0	1	0.00	<MDL			1	0.00	0.00		
	H2O Blk-2	1.0	1	0.00	<MDL	<MDL	<MDL	1	0.00	0.00	0.00	0.00
Matrix Blk	RBS04289-SBlk-1	1.0	1	0.00	<MDL			1	0.00	0.00		
	RBS04289-SBlk-2	1.0	1	0.00	<MDL	<MDL	<MDL	1	0.00	0.00	0.00	0.00
QC-250 ppb	RBS04289-MS-1	1.0	1	281	113%			1	NS	NS		
	RBS04289-MSD-2	1.0	1	256	103%	106%	0.0711	1	NS	NS	NS	NS
GEN011	9394	0.5	1	14.1	0.0312			1	6.48	0.0144		
	9395	0.4	1	19.5	0.0557			1	16.7	0.0479		
	9396	0.4	1	25.5	0.0638			1	19.9	0.0498		
	9397	0.4	1	13.1	0.0327			1	5.23	0.0131		
	9398	0.4	1	12.3	0.0352			1	1.81	0.0052		
	9399	0.4	1	10.7	0.0305			1	2.39	0.0068		
	9400	0.4	1	21.0	0.0601			1	37.6	0.107		
	9401	0.4	1	15.2	0.0380			1	14.9	0.0372		
	9402	0.4	1	46.3	0.116		50.0	1	9.17	0.0229		87.4
	9403	0.4	1	26.0	0.0744	0.0537	0.0269	1	16.4	0.0469	0.0352	0.0307

Limit of Quantitation (LOQ): PFOS = 4.93 ng/mL, PFHS = 4.93 ng/mL.

Method Detection Limit (MDL): PFOS = 2.4 ng/mL, PFHS = 2.4 ng/mL.

PFOS - Perfluorooctanesulfonate

PFHS - Perfluorohexanesulfonate

Date Entered/By: 05/03/99 LAC

Date Verified/ By: 05/21/99 kjh

3M Environmental Lab - Fluorine Analytical Chemistry Team

APPENDIX B

Qualitative Summary of FCs identified in Children's Sera Samples

Sample #	PFOS (ppb)	PFHS (ppb)	PFDS	POAA	M463	PFOSAA	M556	M570
9394	31	14	X	X	X	X	**	X
9395	56	48	X	X	X	X	**	X
9396	64	50	X	X	X	X	X	**
9397	33	13	X	X	X	**	X	**
9398	35	5	X	X	X	**	X	**
9399	31	7	X	X	X	**	X	X
9400	60	107	X	X	X	X	**	X
9401	38	37	X	X	X	**	**	**
9402	116	23	X	X	X	X	X	X
9403	74	47	X	X	X	X	X	X
X = detected			** = not detected					

estimated detection limit for PFDS, POAA, M463 is 3 ppb

estimated detection limit for PFOSAA, M556, M570 is 5 ppb

estimated detection limit for PFOSA is 8 ppb

estimated detection limit for M513 is 12 ppb

3M Environmental Lab - Fluorine Analytical Chemistry Team

PFS's

PFHS	C6F13SO3-
PFOS	C8F17SO3-
PFOSA	C8F17SO2NH2
PFOSAA	C8F17SO2N((CH2CH3)(CH2COO))-
M556	C8F17SO2N((H)(CH2COO))-
M570	C8F17SO2N((CH3)(CH2COO))-

PEDS C10F21SO3- **

PFCA's

POAA	C7F15COO-
M513	C9F19COO-
M463	C8F17COO- **

PFS = perfluorinated sulfoante

PFCA = perfluorinated carboxylic acid

** no standard material available for confirmation;

Lisa A. Clemen

04/27/99 04:55 PM

Environmental Technology & Safety
Services

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PO Box 3331
St. Paul, MN 55133-3331
Fax: (651) 778-6176

To: Kris J. Hansen/US-Corporate/3M/US
Kari J. Rambo/US-Corporate/3M/US
Grant A. Paul/US-Corporate/3M/US

cc:

Subject: GEN011 Sample Receipt

On 04/27/99 we received 10 special H. samples from Jean Burris of Occ. Medical.--These samples have been given project # FACT-GEN011, Lab request number W1724. Samples were received cold and have been stored in Freezer 9 at -20.+/- 10C.

Lisa

Sample receipt verified - 4/28/99 - RWW



Date Received

Page

! of

Address		Requester			Environmental Lab	
3M Environmental Laboratory 935 Bush Ave. Building 2-3E-09 St. Paul, MN 55106 Attn: Sample Custodian Phone (612) 778-6750 Fax (612) 778-6176		Name	Location	Phone No.	Date Needed	Project Lead
		John Burns 220 22 02 737 7267		☐ Routine ☒ 7/25/99	Expected Completion Date	
		Project Description (40 Characters Max.)		Plant Code	Planning Status	Quality Review
		GENOII Special Human Search				
Is this a TSCA 8(d) project? (See back side for instructions)		Dept. No. (Main)	Sub. Acct.	Class/Job/Project No.		Class/Priority
MUST BE CHECKED ☐ Yes ☒ No		4291		0010535009		Date Shipped
Purpose of Testing						
☐ RCRA ☐ TSCA ☐ CWA ☐ CAA ☐ SDWA ☐ MSDS ☐						

Safety Concerns/Special Handling

Comments

See corresponding chain of custody #1437, for sample numbers etc 4/24/99

[illegible]

Chain of Custody Record

3M Environmental Laboratory

11437

Form 35176 - PWO

3M Facility		3M Project Title		3M Requester	
Address		3M Facility Contact		3M Project Lead	
City, State, Zip Code		3M Telephone Number		3M Project Number	
				3M Department Number	
				Lab Request/Template Number	

Sampled By (Print)		Contractor			Number Containers of each							Total Containers of Each Item	☐ Samples Split See Attachment	
Sampler Signature		Date			Preservatives								Comments	
Item #	Sample Description	Date	Time	Matrix	None	HNO ₃	H ₂ SO ₄	NaOH	VOC					
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

Item #	Relinquished By/Affiliation	Time	Date	Shipped Via	Received By/Affiliation	Time	Date
14							

Extraction Worksheet ETS-8-4.0

Study # <u>GEN011</u>	Surrogate Std	FC-Mix	FC-Mix	FC-Mix	Date and
Box # <u>99-C78</u>	approx. ppm	approx. 0.5 ppm	approx. 5 ppm	approx. 50 ppm	Initials for
Matrix <u>Humus Soil</u>	actual 100 ppm	actual ppm	actual ppm	actual ppm	Std. or
	# <u>99012-324</u>	# <u>99012-29-2</u>	# <u>99012-29-1</u>	# <u>99011-100</u>	Comments
<u>1925-4287-1.5LxK-142</u>	<u>5ul</u>	-	-	-	<u>4/28/99-RW</u>
- <u>5BxK-142</u>		-	-	-	
- <u>5gph-142</u>		<u>10ul</u>			
- <u>10gph-142</u>		<u>20ul</u>			
- <u>25gph-142</u>			<u>5ul</u>		
- <u>50gph-142</u>			<u>10ul</u>		
- <u>100gph-142</u>			<u>20ul</u>		
- <u>250gph-142</u>				<u>5ul</u>	
- <u>500gph-142</u>				<u>10ul</u>	
- <u>750gph-142</u>		-	-	<u>15ul</u>	
- <u>1000gph-142</u>		-	-	<u>20ul</u>	
- <u>250gph-CC1</u>		-	-	<u>5ul</u>	
- <u>250gph-CC2</u>		-	-	<u>5ul</u>	
- <u>175</u>	<u>1ul</u>	-	<u>10ul</u>	-	
- <u>175D</u>		-	<u>10ul</u>	-	
<u>9394-0.09m</u>		-	-	-	
<u>9395-0.07m</u>		-	-	-	
<u>9396-0.08m</u>		-	-	-	
<u>9397-0.08m</u>		-	-	-	
<u>9398-0.07m</u>		-	-	-	
<u>9399-0.07m</u>		-	-	-	
<u>9400-0.07m</u>		-	-	-	
<u>9401-0.08m</u>		-	-	-	
<u>9402-0.08m</u>		-	-	-	
<u>9403-0.07m</u>		-	-	-	
		-	-	-	
		-	-	-	
		-	-	-	
		-	-	-	

¹ Study number where the original worksheet is located.

Blank	Ribb. / SCS	Std #	TN-A-2391	amount =	1.0	mL
-------	-------------	-------	-----------	----------	-----	----

Serum Extraction Method : 155-8-4.0

Date & Initials

Vortex 15 sec.

Pipette Matrix Volume 10 ml

Pipette 1 ml of 0.5 M TBA, pH 10. (2nd Row) 4/25/99 Std. # 99011-4-17

Pipette 2 ml of 0.25 Na_2CO_3 /0.25M NaHCO_3 buffer Std. # 99011-150

Dispense 5 ml of methyl-t-butyl ether (2) TN-A- 2259

Shake 30 min	Feed 300 (2)	last shake ascotaph
--------------	--------------	---------------------

Centrifuge 20-25 min Centrifuge speed: 3500

Remove a 4 ml. aliquot of organic layer (2)

Put on Nitrogen Evaporator to dryness Evaporator #: Temperature:

Volume 23 File 3 TN-A:

Add methanol Volume 1.31 ml

Vortex 30 sec.

Filter using a 3cc B-D syringe with a 0.2µm filter into a 1.5 ml autosample vial
MS/MSD/17 Cont: Checks: Spiked 5 µl of a 1000 ppm std (44012)

MS/MSD/ 4 Cont. Checks: Spiked 2 at a 25 ppm std 1.7 1.7 for a final concentration of 1.7 ppm MS/MSD used sample 7/11/2011 Cont. Checks used same matrix as for std curve.

Surrogate Standard: Spiked uL of a ppm std () to all samples, standards, and blanks

2) Samples analyzed as shown, MSY.M3D used 0.08 ml TN-A-739/

2) All samples and standards, spiked with 3-5 ml aliquots of m-
sh. H₂O

Attachment A ETS-8-40 Page 10 of 10

Attachment A	2100-110	Page 1
1/1	Extraction of PFOS from Serum	1/1

(water drying 3 times - total ~ 15ml m + BE at end.)

2) Final Volume 15.02L for 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435, 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469, 471, 473, 475, 477, 479, 481, 483, 485, 487, 489, 491, 493, 495, 497, 499, 501, 503, 505, 507, 509, 511, 513, 515, 517, 519, 521, 523, 525, 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553, 555, 557, 559, 561, 563, 565, 567, 569, 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591, 593, 595, 597, 599, 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629, 631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659, 661, 663, 665, 667, 669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689, 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 711, 713, 715, 717, 719, 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743, 745, 747, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811, 813, 815, 817, 819, 821, 823, 825, 827, 829, 831, 833, 835, 837, 839, 841, 843, 845, 847, 849, 851, 853, 855, 857, 859, 861, 863, 865, 867, 869, 871, 873, 875, 877, 879, 881, 883, 885, 887, 889, 891, 893, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925, 927, 929, 931, 933, 935, 937, 939, 941, 943, 945, 947, 949, 951, 953, 955, 957, 959, 961, 963, 965, 967, 969, 971, 973, 975, 977, 979, 981, 983, 985, 987, 989, 991, 993, 995, 997, 999, 1001, 1003, 1005, 1007, 1009, 1011, 1013, 1015, 1017, 1019, 1021, 1023, 1025, 1027, 1029, 1031, 1033, 1035, 1037, 1039, 1041, 1043, 1045, 1047, 1049, 1051, 1053, 1055, 1057, 1059, 1061, 1063, 1065, 1067, 1069, 1071, 1073, 1075, 1077, 1079, 1081, 1083, 1085, 1087, 1089, 1091, 1093, 1095, 1097, 1099, 1101, 1103, 1105, 1107, 1109, 1111, 1113, 1115, 1117, 1119, 1121, 1123, 1125, 1127, 1129, 1131, 1133, 1135, 1137, 1139, 1141, 1143, 1145, 1147, 1149, 1151, 1153, 1155, 1157, 1159, 1161, 1163, 1165, 1167, 1169, 1171, 1173, 1175, 1177, 1179, 1181, 1183, 1185, 1187, 1189, 1191, 1193, 1195, 1197, 1199, 1201, 1203, 1205, 1207, 1209, 1211, 1213, 1215, 1217, 1219, 1221, 1223, 1225, 1227, 1229, 1231, 1233, 1235, 1237, 1239, 1241, 1243, 1245, 1247, 1249, 1251, 1253, 1255, 1257, 1259, 1261, 1263, 1265, 1267, 1269, 1271, 1273, 1275, 1277, 1279, 1281, 1283, 1285, 1287, 1289, 1291, 1293, 1295, 1297, 1299, 1301, 1303, 1305, 1307, 1309, 1311, 1313, 1315, 1317, 1319, 1321, 1323, 1325, 1327, 1329, 1331, 1333, 1335, 1337, 1339, 1341, 1343, 1345, 1347, 1349, 1351, 1353, 1355, 1357, 1359, 1361, 1363, 1365, 1367, 1369, 1371, 1373, 1375, 1377, 1379, 1381, 1383, 1385, 1387, 1389, 1391, 1393, 1395, 1397, 1399, 1401, 1403, 1405, 1407, 1409, 1411, 1413, 1415, 1417, 1419, 1421, 1423, 1425, 1427, 1429, 1431, 1433, 1435, 1437, 1439, 1441, 1443, 1445, 1447, 1449, 1451, 1453, 1455, 1457, 1459, 1461, 1463, 1465, 1467, 1469, 1471, 1473, 1475, 1477, 1479, 1481, 1483, 1485, 1487, 1489, 1491, 1493, 1495, 1497, 1499, 1501, 1503, 1505, 1507, 1509, 1511, 1513, 1515, 1517, 1519, 1521, 1523, 1525, 1527, 1529, 1531, 1533, 1535, 1537, 1539, 1541, 1543, 1545, 1547, 1549, 1551, 1553, 1555, 1557, 1559, 1561, 1563, 1565, 1567, 1569, 1571, 1573, 1575, 1577, 1579, 1581, 1583, 1585, 1587, 1589, 1591, 1593, 1595, 1597, 1599, 1601, 1603, 1605, 1607, 1609, 1611, 1613, 1615, 1617, 1619, 1621, 1623, 1625, 1627, 1629, 1631, 1633, 1635, 1637, 1639, 1641, 1643, 1645, 164

1-10-11 6:30 AM / 1.6m / 101 57.50/50.00/45.00 / 1.0m

Prep Date(s): 4/28/99
 Analyst(s): RWW
 Sample Matrix: Human Sera
 Method/Revision: ETS-8-4 0
 Target Analyte(s): FC Mix (PFOS, PFOSA, PFOSAA, EtFOSE, PFOSEA, M556)

Study Number: GEN011
 Equipment Number:
 Final Solvent & TN Number: MeOH / TN-A-2438
 Blank Fluid/Identifier: Rabbit Sera / TN-A-2391

FC Mix Std Approx. 0.500 ppm: 99012-29-2
 FC Mix Std Approx. 5.00 ppm: 99012-29-1
 FC Mix Std Approx. 50.0 ppm: 99012-100
 Surrogate Std Approx. 100 ppm: 99012-3-24

Actual Concentrations of Standards in the FC Mix & M570.

PFOS Std Conc. ug/mL	PFOSA Std Conc. ug/mL	PFOSAA Std Conc. ug/mL	EtFOSE Std Conc. ug/mL	PFOSEA Std Conc. ug/mL	M556 Std Conc. ug/mL	FC Mix Am't Spiked mL	All Final Volume mL
0.500	0.500	0.500	0.500	0.500	0.500	0.010	1.015
0.500	0.500	0.500	0.500	0.500	0.500	0.020	1.025
5.00	5.00	5.00	5.00	5.00	5.00	0.005	1.010
5.00	5.00	5.00	5.00	5.00	5.00	0.010	1.015
5.00	5.00	5.00	5.00	5.00	5.00	0.020	1.025
50.0	50.0	50.0	50.0	50.0	50.0	0.005	1.010
50.0	50.0	50.0	50.0	50.0	50.0	0.010	1.015
50.0	50.0	50.0	50.0	50.0	50.0	0.015	1.020
50.0	50.0	50.0	50.0	50.0	50.0	0.020	1.025

Calculated Concentrations of Standards in the Sample Matrix.

PFOS Final Conc. ng/mL	PFOSA Final Conc. ng/mL	PFOSAA Final Conc. ng/mL	EtFOSE Final Conc. ng/mL	PFOSEA Final Conc. ng/mL	M556 Final Conc. ng/mL	Surrogate Std Conc. ug/mL	All Am't Spiked mL
4.93	4.93	4.93	4.93	4.93	4.93	100	0.005
9.76	9.76	9.76	9.76	9.76	9.76	Surrogate	
24.8	24.8	24.8	24.8	24.8	24.8	Final Conc.	
49.3	49.3	49.3	49.3	49.3	49.3	ng/mL	
97.6	97.6	97.6	97.6	97.6	97.6	500	
248	248	248	248	248	248		
493	493	493	493	493	493		
735	735	735	735	735	735		
976	976	976	976	976	976		

Actual Concentrations of Standards in the FC Mix.

PFOS Std Conc. ug/mL	PFOSA Std Conc. ug/mL	PFOSAA Std Conc. ug/mL	EtFOSE Std Conc. ug/mL	PFOSEA Std Conc. ug/mL	M556 Std Conc. ug/mL	FC Mix Am't Spiked mL	All Final Volume mL
5.00	5.00	5.00	5.00	5.00	5.00	0.010	2.011
5.00	5.00	5.00	5.00	5.00	5.00	0.010	2.011

MS
MSD

Calculated Concentrations of Standards in the Rabbit Sera(.08 ml).

PFOS Final Conc. ng/mL	PFOSA Final Conc. ng/mL	PFOSAA Final Conc. ng/mL	EtFOSE Final Conc. ng/mL	PFOSEA Final Conc. ng/mL	M556 Final Conc. ng/mL	Surrogate Std Conc. ug/mL	All Am't Spiked mL
625.00	625.00	625.00	625.00	625.00	625.00	100	0.001
625.00	625.00	625.00	625.00	625.00	625.00	Surrogate	
						Final Conc.	
						ng/mL	
						50	

MS
MSD

Calculated Concentrations of Standards in Methanol(0.2 ml).

PFOS Final Conc. ng/mL	PFOSA Final Conc. ng/mL	PFOSAA Final Conc. ng/mL	EtFOSE Final Conc. ng/mL	PFOSEA Final Conc. ng/mL	M556 Final Conc. ng/mL	Surrogate Std Conc. ug/mL	All Am't Spiked mL
250.00	250.00	250.00	250.00	250.00	250.00	100	0.001
250.00	250.00	250.00	250.00	250.00	250.00	Surrogate	
						Final Conc.	
						ng/mL	
						200	

MS
MSD

FACT: DATA REVIEW SUMMARY FORM

Date: 5/3/99
 Analyst: KLJ
 FACT Study Number GCW011
 Matrix NWS
 Time Points N/A
 Dilutions? N/A

Analyte 4: PFOS
 Acceptable Linear Range: 4.93-735 ppb
 LOQ for this data set: 4.93 ppb
 Re-evaluated for different range? No

Samples
 Analyte 1: PFOS
 Acceptable Linear Range: 4.93-77.6 ppb
 LOQ for this data set: 4.93 ppb
 Re-evaluated for different range? Yes

Analyte 5: _____
 Acceptable Linear Range: _____
 LOQ for this data set: _____
 Re-evaluated for different range? _____

MS/MSD
 Analyte 2: PFOS
 Acceptable Linear Range: 4.93-735 ppb
 LOQ for this data set: 4.93 ppb
 Re-evaluated for different range? No

Analyte 6: _____
 Acceptable Linear Range: _____
 LOQ for this data set: _____
 Re-evaluated for different range? _____

Analyte 3: PFOS
 Acceptable Linear Range: 4.93-735 ppb
 LOQ for this data set: 4.93 ppb
 Re-evaluated for different range? No

Analyte 7: _____
 Acceptable Linear Range: _____
 LOQ for this data set: _____
 Re-evaluated for different range? _____

inc 05/12/99

LS 51349

Quantity Compound Summary Report

Sample List: C:\MASSLYNX\rats2.PRO\SampleDB\043099a1
 Last modified: Mon May 03 06:48:38 1999
 Method: C:\MASSLYNX\rats2.PRO\MethDB\043099a
 Last modified: Mon May 03 07:33:57 1999
 Job Code:

Printed: Mon May 03 07:34:31 1999

Compound 1: PFOS

# Name	Samplelist Text	Type	Std Conc	RT	Area	Conc.	Flags	tDev
1 043099001	GEN011 RBS04289-250 ppb	Analyte		4.735	473	199.93	bb	
2 043099002	GEN011 RBS04289-250 ppb	Analyte		4.720	521	220.14	bb	
3 043099003	MeOH Blank	Analyte						
4 043099004	MeOH Blank	Analyte						
5 043099005	GEN011 RBS04289-WBlank-1	Analyte						
6 043099006	GEN011 RBS04289-SBlank-1	Analyte						
7 043099007	GEN011 RBS04289-5 ppb-1	Standard	4.93					
8 043099008	GEN011 RBS04289-10 ppb-1	Standard	9.76	4.691	26	8.35	MM	-14
9 043099009	GEN011 RBS04289-25 ppb-1	Standard	24.80	4.697	60	23.01	MM	-7
10 043099010	GEN011 RBS04289-50 ppb-1	Standard	49.30	4.691	126	51.29	MM	4
11 043099011	GEN011 RBS04289-100 ppb-1	Standard	97.60	4.677	215	89.51	bb	-8
12 043099012	GEN011 RBS04289-250 ppb-1	Standard	248.00	4.689	613	259.77	MM	5
13 043099013	GEN011 RBS04289-500 ppb-1	Standard	493.00	4.680	1107	470.97	MM	-4
14 043099014	GEN011 RBS04289-750 ppb-1	Standard	735.00	4.686	1724	735.29	MM	0
15 043099015	MeOH Blank	Analyte						
16 043099016	MeOH Blank	Analyte						
17 043099017	GEN011 RBS04289-WBlank-1	Analyte						
18 043099018	GEN011, 9394 (0.09 mL)	Analyte		4.689	216	89.73	MM	
19 043099019	GEN011, 9395 (0.07 mL)	Analyte		4.677	537	226.99	bb	
20 043099020	GEN011, 9396 (0.08 mL)	Analyte		4.682	636	269.51	bb	
21 043099021	GEN011, 9397 (0.07 mL)	Analyte		4.686	177	73.01	MM	
22 043099022	GEN011, 9398 (0.07 mL)	Analyte		4.685	70	27.18	MM	
23 043099023	GEN011 RBS04289-50 ppb-1	QC	49.30	4.705	139	56.93	MM	15
24 043099024	MeOH Blank	Analyte		4.644	50	18.61	MM	
25 043099025	GEN011 RBS04289-WBlank-1	Analyte						
26 043099026	GEN011, 9399 (0.07 mL)	Analyte		4.705	88	35.08	MM	
27 043099027	GEN011, 9400 (0.07 mL)	Analyte		4.689	1188	505.91	MM	
28 043099028	GEN011, 9401 (0.08 mL)	Analyte		4.696	479	202.49	MM	
29 043099029	GEN011, 9402 (0.08 mL)	Analyte		4.693	300	125.96	bb	
30 043099030	GEN011, 9403 (0.07 mL)	Analyte		4.695	527	222.75	MM	
31 043099031	GEN011 RBS04289-50 ppb-1	QC	49.30	4.697	130	52.97	MM	7
32 043099032	GEN011 RBS04289-250 ppb, MS	Analyte		4.696	679	288.14	MM	
33 043099033	GEN011 RBS04289-250 ppb, MSD	Analyte		4.691	651	276.12	MM	
34 043099034	GEN011 RBS04289-50 ppb-1	QC	49.30	4.706	143	58.43	MM	19
35 043099035	MeOH Blank	Analyte						
36 043099036	GEN011 RBS04289-WBlank-2	Analyte						
37 043099037	GEN011 RBS04289-SBlank-2	Analyte						
38 043099038	GEN011 RBS04289-5 ppb-2	Standard	4.93					
39 043099039	GEN011 RBS04289-10 ppb-2	Standard	9.76	4.699	35	12.27	MM	26
40 043099040	GEN011 RBS04289-25 ppb-2	Standard	24.80	4.702	60	23.21	bb	-6
41 043099041	GEN011 RBS04289-50 ppb-2	Standard	49.30	4.706	127	51.86	MM	5
42 043099042	GEN011 RBS04289-100 ppb-2	Standard	97.60	4.697	243	101.25	MM	4
43 043099043	GEN011 RBS04289-250 ppb-2	Standard	248.00	4.694	543	229.85	MM	-7
44 043099044	GEN011 RBS04289-500 ppb-2	Standard	493.00	4.684	1179	501.72	MM	2
45 043099045	GEN011 RBS04289-750 ppb-2	Standard	735.00	4.701	1774	756.56	MM	3

Areas Entered
 + calculated vs
 PFOS 1/x curve
 on 5/03/99
 WAC
 65%

665 5/3/99

Quantify Compound Summary Report

Sample List: C:\HASSLYNX\rate2.PRO\SampleDB\043099a1
 Last modified: Mon May 03 06:48:38 1999
 Method: C:\HASSLYNX\rate2.PRO\MethDB\043099a
 Last modified: Mon May 03 07:33:57 1999
 Job Code

Printed: Mon May 03 07:34:31 1999

Compound 2. PFOS

# Name	Sample List Text	Type	Std Conc	RT	Area	Conc. Flags	SDDev
1 GEN011	RBS04289-250 ppb	Analyte		5.283	5841	186.42 bb	
2 GEN011	RBS04289-250 ppb	Analyte		5.267	6144	196.10 bb	
3 MeOH Blank		Analyte					
4 MeOH Blank		Analyte					
5 GEN011	RBS04289-WBlank-1	Analyte					
6 GEN011	RBS04289-SBlank-1	Analyte					
7 GEN011	RBS04289-5 ppb-1	Standard	4.93	5.254	161	4.71 bb	-4
8 GEN011	RBS04289-10 ppb-1	Standard	9.76	5.237	314	9.61 bb	-2
9 GEN011	RBS04289-25 ppb-1	Standard	24.80	5.244	819	25.76 bb	4
10 GEN011	RBS04289-50 ppb-1	Standard	49.30	5.238	1551	49.17 bb	0
11 GEN011	RBS04289-100 ppb-1	Standard	97.60	5.249	2995	95.39 bb	-2
12 GEN011	RBS04289-250 ppb-1	Standard	248.00	5.259	6950	221.89 bbX	-11
13 GEN011	RBS04289-500 ppb-1	Standard	493.00	5.250	12895	412.06 bbX	-16
14 GEN011	RBS04289-750 ppb-1	Standard	735.00	5.255	19202	613.78 bbX	-16
15 MeOH Blank		Analyte					
16 MeOH Blank		Analyte					
17 GEN011	RBS04289-WBlank-1	Analyte		5.281	24	0.33 MM	
18 GEN011	9394 (0.09 mL)	Analyte		5.240	453	14.06 bb	
19 GEN011	9395 (0.07 mL)	Analyte		5.246	623	19.48 bb	
20 GEN011	9396 (0.08 mL)	Analyte		5.250	811	25.51 bb	
21 GEN011	9397 (0.07 mL)	Analyte		5.233	423	13.09 bb	
22 GEN011	9398 (0.07 mL)	Analyte		5.256	399	12.33 bb	
23 GEN011	RBS04289-50 ppb-1	QC	49.30	5.251	1459	46.24 bb	-6
24 MeOH Blank		Analyte					
25 GEN011	RBS04289-WBlank-1	Analyte					
26 GEN011	9399 (0.07 mL)	Analyte		5.256	347	10.68 bb	
27 GEN011	9400 (0.07 mL)	Analyte		5.239	671	21.04 bb	
28 GEN011	9401 (0.08 mL)	Analyte		5.244	489	15.21 bb	
29 GEN011	9402 (0.08 mL)	Analyte		5.240	1461	46.32 bb	
30 GEN011	9403 (0.07 mL)	Analyte		5.245	827	26.04 bb	
31 GEN011	RBS04289-50 ppb-1	QC	49.30	5.248	1591	50.46 bb	2
32 GEN011	RBS04289-250 ppb, MS	Analyte		5.246	7594	242.50 bb	
33 GEN011	RBS04289-250 ppb, MSD	Analyte		5.238	6928	221.18 bb	
34 GEN011	RBS04289-50 ppb-1	QC	49.30	5.256	1600	50.75 bb	3
35 MeOH Blank		Analyte					
36 GEN011	RBS04289-WBlank-2	Analyte					
37 GEN011	RBS04289-SBlank-2	Analyte					
38 GEN011	RBS04289-5 ppb-2	Standard	4.93	5.250	176	5.19 bb	5
39 GEN011	RBS04289-10 ppb-2	Standard	9.76	5.248	319	9.77 bb	0
40 GEN011	RBS04289-25 ppb-2	Standard	24.80	5.251	765	24.03 bb	-3
41 GEN011	RBS04289-50 ppb-2	Standard	49.30	5.252	1554	49.28 bb	0
42 GEN011	RBS04289-100 ppb-2	Standard	97.60	5.265	3135	99.86 bb	2
43 GEN011	RBS04289-250 ppb-2	Standard	248.00	5.245	6834	218.18 bbX	-12
44 GEN011	RBS04289-500 ppb-2	Standard	493.00	5.253	13256	423.61 bbX	-14
45 GEN011	RBS04289-750 ppb-2	Standard	735.00	5.249	19108	610.79 bbX	-17

Entered
05/03/99
LAL

685 5/3/99

Quantity Compound Summary Report

Sample List: C:\MASSLYNX\rats2.PRO\SampleDB\043099a1
Last modified: Mon May 03 06:48:38 1999
Method: C:\MASSLYNX\rats2.PRO\MethDB\043099a
Last modified: Mon May 03 07:33:57 1999
Job Code:

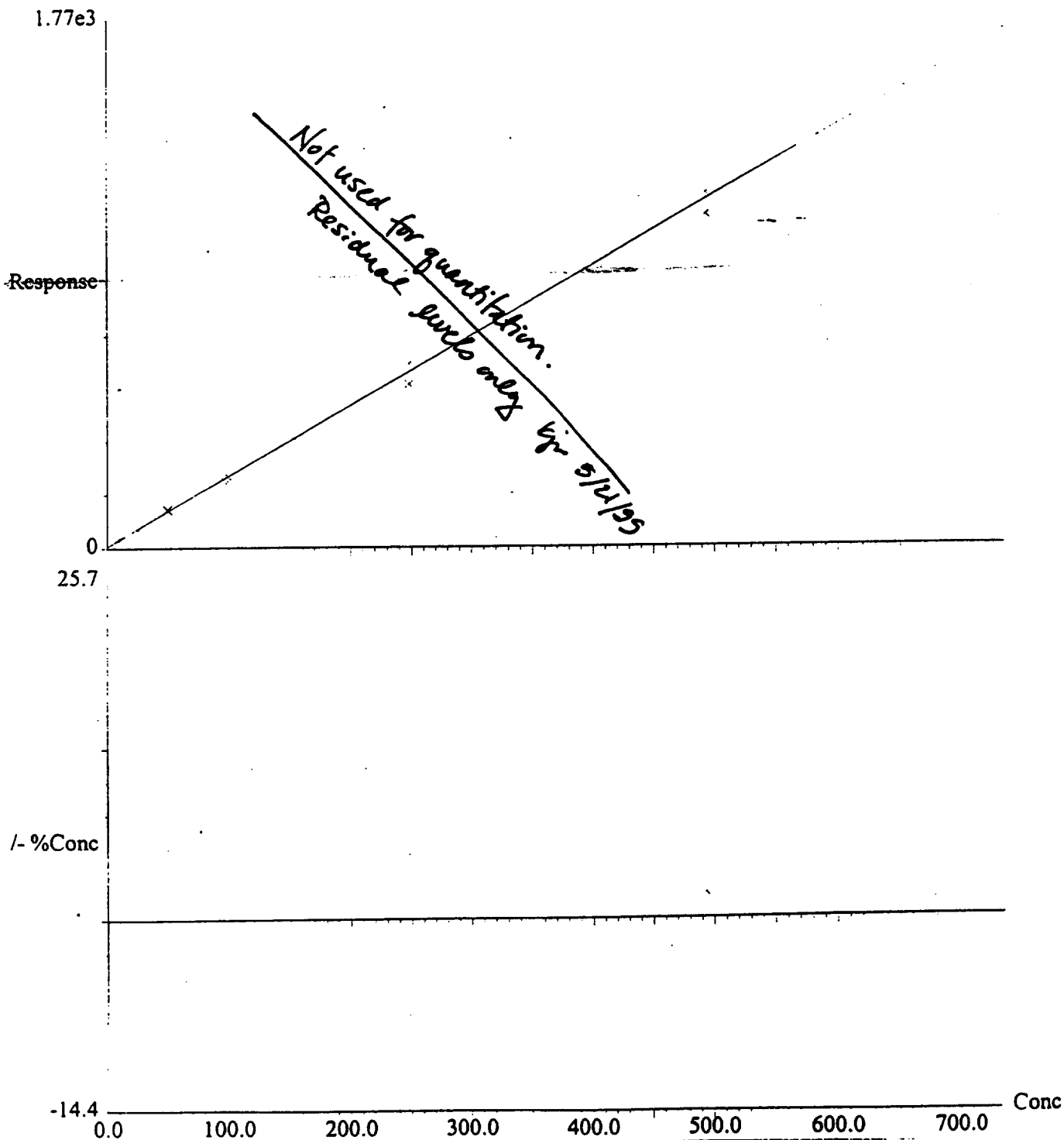
Printed: Mon May 03 07:34:31 1999

Compound 3 PFDS

# Name	Samplelist Text	Type	Std Conc	RT	Area	Conc.	Flags	SDDev
1	GEN011 RBS04289-250 ppb	Analyte		5.659	12	65.74	bb	
2	GEN011 RBS04289-250 ppb	Analyte		5.641	23	342.31	bb	
3	MeOH Blank	Analyte						
4	MeOH Blank	Analyte						
5	GEN011 RBS04289-WBlank-1	Analyte						
6	GEN011 RBS04289-SBlank-1	Analyte						
7	GEN011 RBS04289-5 ppb-1	Standard	4.93					
8	GEN011 RBS04289-10 ppb-1	Standard	9.76					
9	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.553	10	8.72	bb	-65
10	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.590	13	87.16	MM	77
11	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.644	11	47.01	bb	-52
12	GEN011 RBS04289-250 ppb-1	Standard	248.00	5.654	19	249.53	bb	1
13	GEN011 RBS04289-500 ppb-1	Standard	493.00	5.626	29	499.12	bb	1
14	GEN011 RBS04289-750 ppb-1	Standard	735.00	5.632	34	632.03	MM	-14
15	MeOH Blank	Analyte						
16	MeOH Blank	Analyte		5.703	50	1030.72	bb	
17	GEN011 RBS04289-WBlank-1	Analyte						
18	GEN011, 9394 (0.09 mL)	Analyte		5.479	16	178.76	MM	
19	GEN011, 9395 (0.07 mL)	Analyte		5.491	4	0.00	bb	
20	GEN011, 9396 (0.08 mL)	Analyte		5.627	26	428.38	bb	
21	GEN011, 9397 (0.07 mL)	Analyte		5.649	20	262.40	bb	
22	GEN011, 9398 (0.07 mL)	Analyte		5.632	66	1440.50	bb	
23	GEN011 RBS04289-50 ppb-1	QC	49.30	5.629	9	0.00	MM	-100
24	MeOH Blank	Analyte		5.544	6	0.00	MM	
25	GEN011 RBS04289-WBlank-1	Analyte						
26	GEN011, 9399 (0.07 mL)	Analyte		5.480	6	0.00	bb	
27	GEN011, 9400 (0.07 mL)	Analyte		5.614	23	344.15	bb	
28	GEN011, 9401 (0.08 mL)	Analyte		5.643	16	178.86	bb	
29	GEN011, 9402 (0.08 mL)	Analyte		5.617	22	329.33	bb	
30	GEN011, 9403 (0.07 mL)	Analyte		5.641	46	943.73	bb	
31	GEN011 RBS04289-50 ppb-1	QC	49.30					
32	GEN011 RBS04289-250 ppb, MS	Analyte		5.647	23	341.84	bb	
33	GEN011 RBS04289-250 ppb, MSD	Analyte		5.639	15	148.95	bb	
34	GEN011 RBS04289-50 ppb-1	QC	49.30					
35	MeOH Blank	Analyte						
36	GEN011 RBS04289-WBlank-2	Analyte						
37	GEN011 RBS04289-SBlank-2	Analyte						
38	GEN011 RBS04289-5 ppb-2	Standard	4.93					
39	GEN011 RBS04289-10 ppb-2	Standard	9.76					
40	GEN011 RBS04289-25 ppb-2	Standard	24.80					
41	GEN011 RBS04289-50 ppb-2	Standard	49.30	5.626	16	174.77	bbX	255
42	GEN011 RBS04289-100 ppb-2	Standard	97.60	5.639	13	106.26	MM	9
43	GEN011 RBS04289-250 ppb-2	Standard	248.00	5.598	23	355.64	MM	43
44	GEN011 RBS04289-500 ppb-2	Standard	493.00	5.648	28	473.47	MM	-4
45	GEN011 RBS04289-750 ppb-2	Standard	735.00	5.625	39	762.37	MM	4

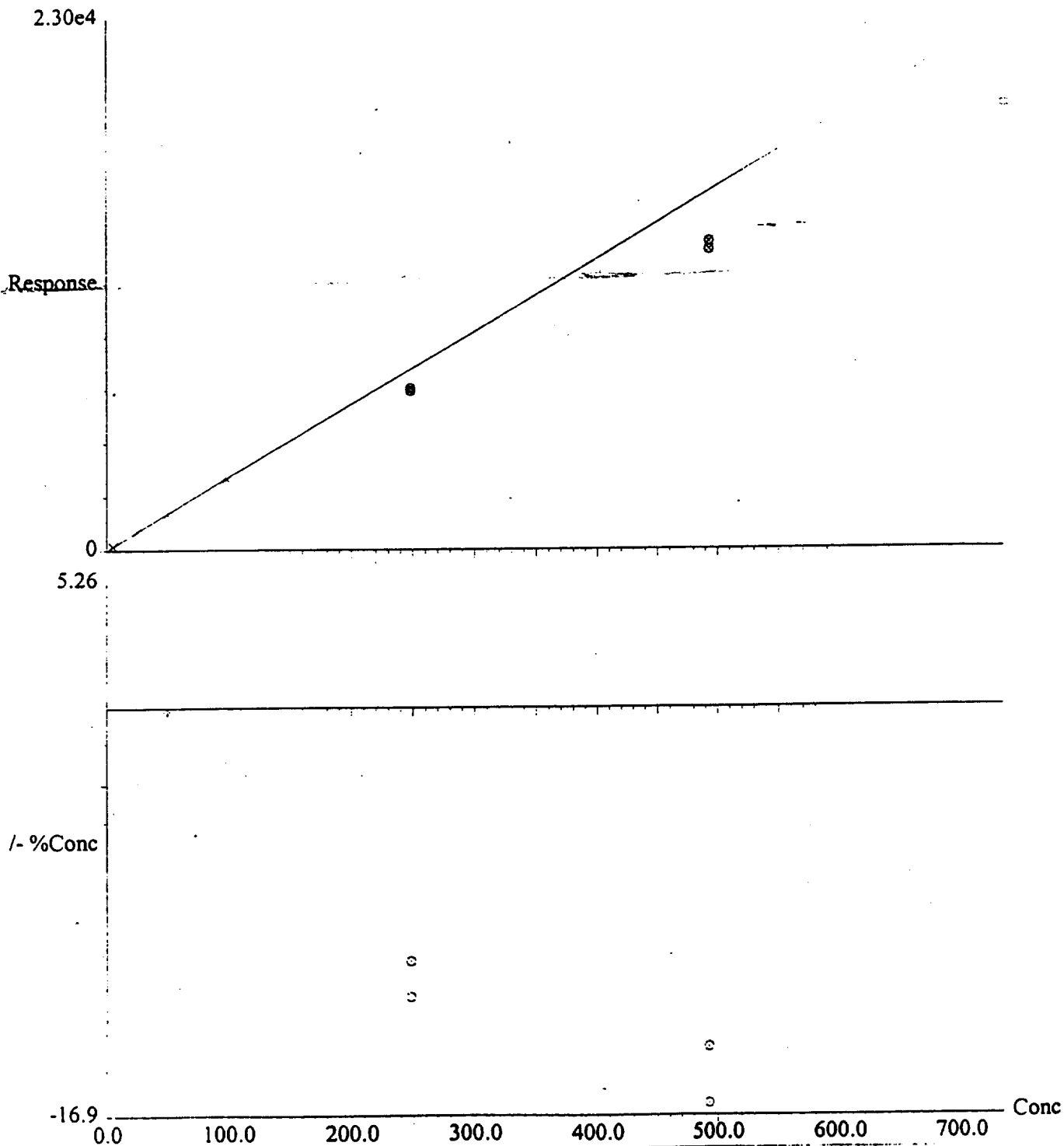
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 Last modified: Mon May 03 07:34:05 1999
 Printed: Mon May 03 07:36:44 1999

Compound 1 name: PFHS
 Coefficient of Determination: 0.998313
 Calibration curve: $2.33693 * x + 6.12110$
 Response type: External Std, Area
 Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Calibration: C:\MASSLYNX\data2\PRO\CurveDB\043099a
 Last modified: Mon May 03 07:34:05 1999
 Printed: Mon May 03 07:36:44 1999

Compound 2 name: PFOS
 Coefficient of Determination: 0.998987
 Calibration curve: $31.2623 * x + 13.4094$
 Response type: External Std, Area
 Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Calibration: C:\MASSLYNX\rate2.PRO\CurveDB\043099a
Last modified: Mon May 03 07:34:05 1999
Printed: Mon May 03 07:36:44 1999

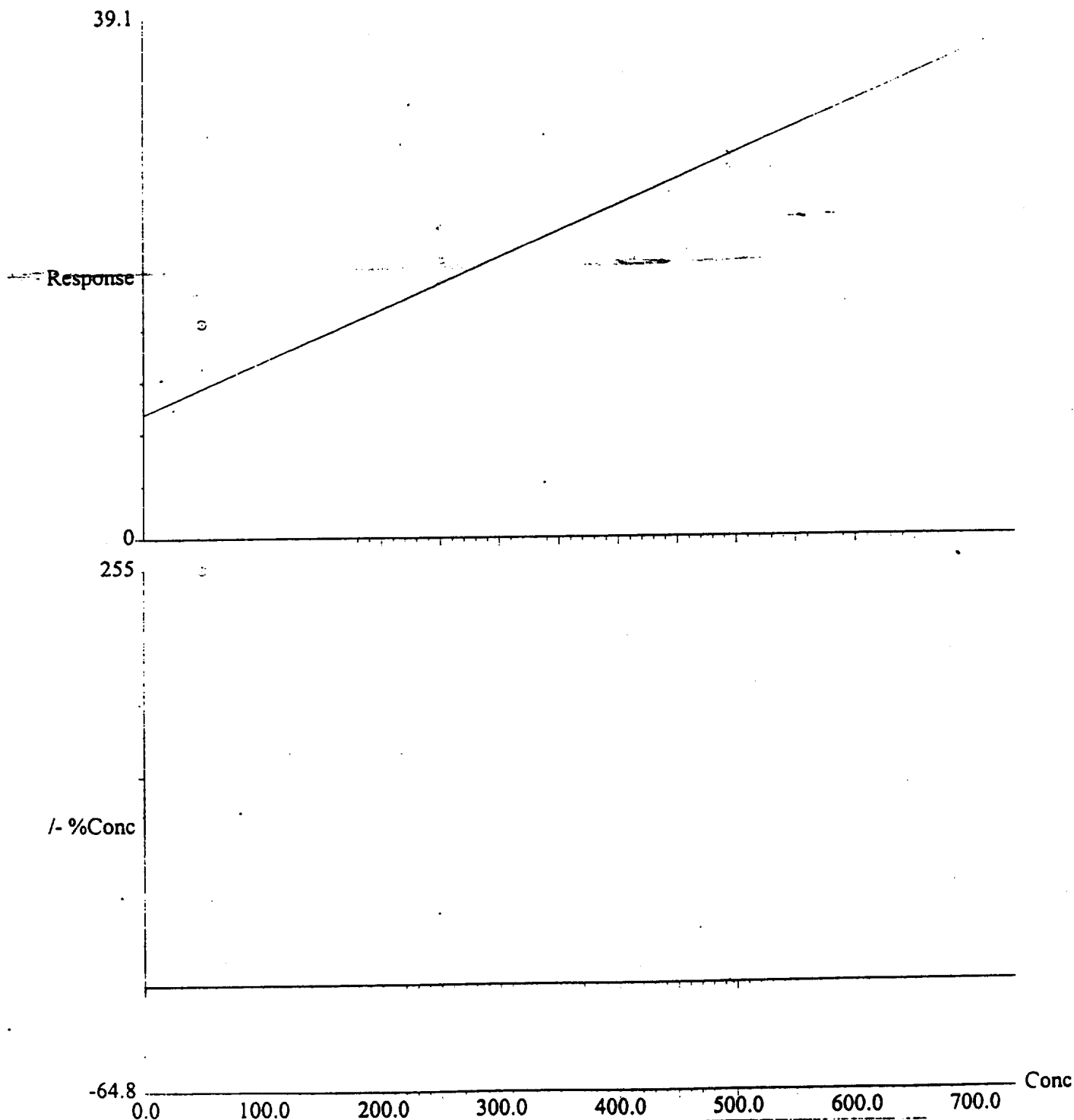
Compound 3 name: PFDS

Coefficient of Determination: 0.955785

Calibration curve: $0.0390723 * x + 9.30435$

Response type: External Std, Area

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Quantity Compound Summary Report

Page 1

Sample List: C:\MASSLYNX\rats2.PRO\SampleDB\043099a1
 Last modified: Mon May 03 06:48:38 1999
 Method: C:\MASSLYNX\rats2.PRO\MethDB\043099a
 Last modified: Mon May 03 07:33:57 1999
 Job Code
 Printed: Mon May 03 07:40:56 1999

Compound 1: PFHS

# Name	Sample List Text	Type	Std Conc	RT	Area	Conc. Flag	%Dev
1 043099001	GEN011 RBS04289-250 ppb	Analyte		4.735	473	199.93 bb	
2 043099002	GEN011 RBS04289-250 ppb	Analyte		4.720	521	220.14 bb	
3 043099003	MeOH Blank	Analyte					
4 043099004	MeOH Blank	Analyte					
5 043099005	GEN011 RBS04289-WBlank-1	Analyte					
6 043099006	GEN011 RBS04289-SBlank-1	Analyte					
7 043099007	GEN011 RBS04289-5 ppb-1	Standard	4.93				
8 043099008	GEN011 RBS04289-10 ppb-1	Standard	9.76	4.691	26	8.35 MM	-14
9 043099009	GEN011 RBS04289-25 ppb-1	Standard	24.80	4.697	60	23.01 MM	-7
10 043099010	GEN011 RBS04289-50 ppb-1	Standard	49.30	4.691	126	51.29 MM	4
11 043099011	GEN011 RBS04289-100 ppb-1	Standard	97.60	4.677	215	89.51 bb	-8
12 043099012	GEN011 RBS04289-250 ppb-1	Standard	248.00	4.689	613	259.77 MM	5
13 043099013	GEN011 RBS04289-500 ppb-1	Standard	493.00	4.680	1107	470.97 MM	-4
14 043099014	GEN011 RBS04289-750 ppb-1	Standard	735.00	4.686	1724	735.29 MM	0
15 043099015	MeOH Blank	Analyte					
16 043099016	MeOH Blank	Analyte					
17 043099017	GEN011 RBS04289-WBlank-1	Analyte					
18 043099018	GEN011, 9394 (0.09 mL)	Analyte		4.689	216	89.73 MM	
19 043099019	GEN011, 9395 (0.07 mL)	Analyte		4.677	537	226.99 bb	
20 043099020	GEN011, 9396 (0.08 mL)	Analyte		4.682	636	268.51 bb	
21 043099021	GEN011, 9397 (0.07 mL)	Analyte		4.686	177	73.01 MM	
22 043099022	GEN011, 9398 (0.07 mL)	Analyte		4.685	70	27.18 MM	
23 043099023	GEN011 RBS04289-50 ppb-1	QC	49.30	4.705	139	56.93 MM	15
24 043099024	MeOH Blank	Analyte		4.644	50	18.61 MM	
25 043099025	GEN011 RBS04289-WBlank-1	Analyte					
26 043099026	GEN011, 9399 (0.07 mL)	Analyte		4.705	88	35.08 MM	
27 043099027	GEN011, 9400 (0.07 mL)	Analyte		4.689	1188	505.91 MM	
28 043099028	GEN011, 9401 (0.08 mL)	Analyte		4.696	479	202.49 MM	
29 043099029	GEN011, 9402 (0.08 mL)	Analyte		4.693	300	125.96 bb	
30 043099030	GEN011, 9403 (0.07 mL)	Analyte		4.695	527	222.75 MM	
31 043099031	GEN011 RBS04289-50 ppb-1	QC	49.30	4.697	130	52.97 MM	7
32 043099032	GEN011 RBS04289-250 ppb, MS	Analyte		4.696	679	288.14 MM	
33 043099033	GEN011 RBS04289-250 ppb, MSD	Analyte		4.691	651	276.12 MM	
34 043099034	GEN011 RBS04289-50 ppb-1	QC	49.30	4.706	143	58.43 MM	19
35 043099035	MeOH Blank	Analyte					
36 043099036	GEN011 RBS04289-WBlank-2	Analyte					
37 043099037	GEN011 RBS04289-SBlank-2	Analyte					
38 043099038	GEN011 RBS04289-5 ppb-2	Standard	4.93				
39 043099039	GEN011 RBS04289-10 ppb-2	Standard	9.76	4.699	35	12.27 MM	26
40 043099040	GEN011 RBS04289-25 ppb-2	Standard	24.80	4.702	60	23.21 bb	-6
41 043099041	GEN011 RBS04289-50 ppb-2	Standard	49.30	4.706	127	51.86 MM	5
42 043099042	GEN011 RBS04289-100 ppb-2	Standard	97.60	4.697	243	101.25 MM	4
43 043099043	GEN011 RBS04289-250 ppb-2	Standard	248.00	4.694	543	229.85 MM	-7
44 043099044	GEN011 RBS04289-500 ppb-2	Standard	493.00	4.684	1179	501.72 MM	2
45 043099045	GEN011 RBS04289-750 ppb-2	Standard	735.00	4.701	1774	756.56 MM	3

(6-5) 573/49

Quantity Compound Summary Report

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Sample List: C:\MASSLYNX\data2\PRO\SampleDB\043099a1
Last modified: Mon May 03 06:48:38 1999
Method: C:\MASSLYNX\data2\PRO\Method\043099a
Last modified: Mon May 03 07:33:57 1999
Job Code:

Printed: Mon May 03 07:40:56 1999

Compound 2: PFOS

# Name	Samplelist Text	Type	Std Conc	RT	Area	Conc.	Flags	tDev
1 043099001	GEN011 RBS04289-250 ppb	Analyte		5.283	5841	215.81	bb	
2 043099002	GEN011 RBS04289-250 ppb	Analyte		5.267	6144	227.13	bb	
3 043099003	MeOH Blank	Analyte						
4 043099004	MeOH Blank	Analyte						
5 043099005	GEN011 RBS04289-WBlank-1	Analyte						
6 043099006	GEN011 RBS04289-SBlank-1	Analyte						
7 043099007	GEN011 RBS04289-5 ppb-1	Standard	4.93	5.254	161	3.29	bb	-33
8 043099008	GEN011 RBS04289-10 ppb-1	Standard	9.76	5.237	314	9.02	bb	-8
9 043099009	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.244	819	27.91	bb	13
10 043099010	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.238	1551	55.29	bb	12
11 043099011	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.249	2995	109.34	bb	12
12 043099012	GEN011 RBS04289-250 ppb-1	Standard	248.00	5.259	6950	257.30	bb	4
13 043099013	GEN011 RBS04289-500 ppb-1	Standard	493.00	5.250	12895	479.71	bb	-3
14 043099014	GEN011 RBS04289-750 ppb-1	Standard	735.00	5.255	19202	715.64	bb	-3
15 043099015	MeOH Blank	Analyte						
16 043099016	MeOH Blank	Analyte						
17 043099017	GEN011 RBS04289-WBlank-1	Analyte		5.281	24	0.00	MM	
18 043099018	GEN011, 9394 (0.09 mL)	Analyte		5.240	453	14.23	bb	
19 043099019	GEN011, 9395 (0.07 mL)	Analyte		5.246	623	20.57	bb	
20 043099020	GEN011, 9396 (0.08 mL)	Analyte		5.250	811	27.61	bb	
21 043099021	GEN011, 9397 (0.07 mL)	Analyte		5.233	423	13.09	bb	
22 043099022	GEN011, 9398 (0.07 mL)	Analyte		5.256	399	12.21	bb	
23 043099023	GEN011 RBS04289-50 ppb-1	QC	49.30	5.251	1459	51.86	bb	5
24 043099024	MeOH Blank	Analyte						
25 043099025	GEN011 RBS04289-WBlank-1	Analyte						
26 043099026	GEN011, 9399 (0.07 mL)	Analyte		5.256	347	10.27	bb	
27 043099027	GEN011, 9400 (0.07 mL)	Analyte		5.239	671	22.38	bb	
28 043099028	GEN011, 9401 (0.08 mL)	Analyte		5.244	489	15.57	bb	
29 043099029	GEN011, 9402 (0.08 mL)	Analyte		5.240	1461	51.95	bb	
30 043099030	GEN011, 9403 (0.07 mL)	Analyte		5.245	827	28.23	bb	
31 043099031	GEN011 RBS04289-50 ppb-1	QC	49.30	5.248	1591	56.80	bb	15
32 043099032	GEN011 RBS04289-250 ppb, MS	Analyte		5.246	7594	281.40	bb	
33 043099033	GEN011 RBS04289-250 ppb, MSD	Analyte		5.238	6928	256.46	bb	
34 043099034	GEN011 RBS04289-50 ppb-1	QC	49.30	5.256	1600	57.14	bb	16
35 043099035	MeOH Blank	Analyte						
36 043099036	GEN011 RBS04289-WBlank-2	Analyte						
37 043099037	GEN011 RBS04289-SBlank-2	Analyte						
38 043099038	GEN011 RBS04289-5 ppb-2	Standard	4.93	5.250	176	3.85	bb	-22
39 043099039	GEN011 RBS04289-10 ppb-2	Standard	9.76	5.248	319	9.21	bb	-6
40 043099040	GEN011 RBS04289-25 ppb-2	Standard	24.80	5.251	765	25.89	bb	4
41 043099041	GEN011 RBS04289-50 ppb-2	Standard	49.30	5.252	1554	55.42	bb	12
42 043099042	GEN011 RBS04289-100 ppb-2	Standard	97.60	5.265	3135	114.57	bb	17
43 043099043	GEN011 RBS04289-250 ppb-2	Standard	248.00	5.245	6834	252.96	bb	2
44 043099044	GEN011 RBS04289-500 ppb-2	Standard	493.00	5.253	13256	493.22	bb	0
45 043099045	GEN011 RBS04289-750 ppb-2	Standard	735.00	5.249	19108	712.14	bb	-3

15 } Entered 05/03/99
LAC

Quantity Compound Summary Report

Sample List C:\MASSLYNX\rats2.PRO\SampleDB\043099a1
 Last modified: Mon May 03 06:48:38 1999
 Method C:\MASSLYNX\rats2.PRO\MethDB\043099a
 Last modified: Mon May 03 07:33:57 1999
 Job Code

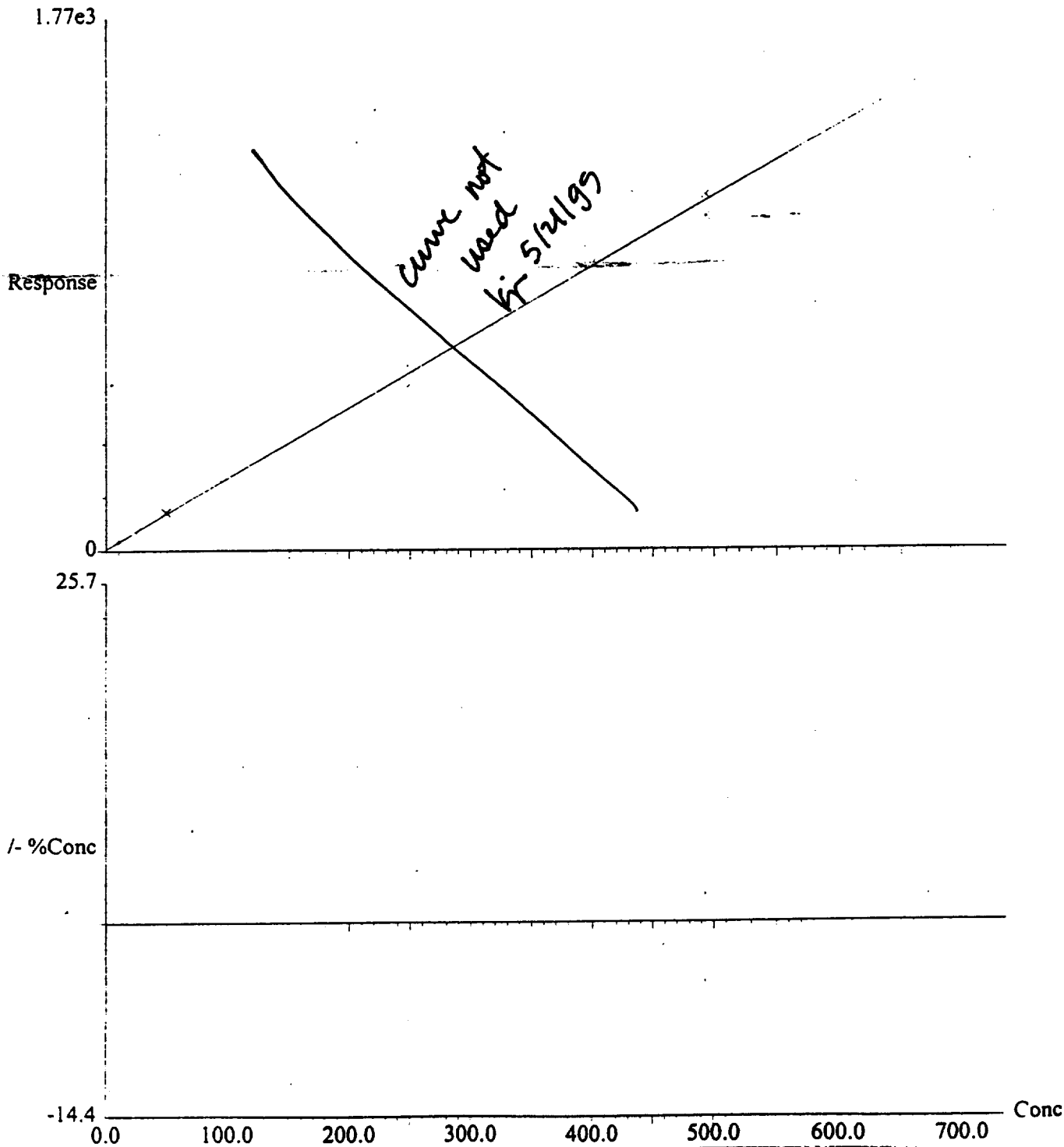
Printed Mon May 03 07:40:56 1999

Compound 3: PFDS

# Name	Samplelist Text	Type	Std Conc	RT	Area	Conc. Flags	%Dev
1 043099001	GEN011 RBS04289-250 ppb	Analyte		5.659	12	65.74 bb	
2 043099002	GEN011 RBS04289-250 ppb	Analyte		5.641	23	342.31 bb	
3 043099003	MeOH Blank	Analyte					
4 043099004	MeOH Blank	Analyte					
5 043099005	GEN011 RBS04289-WBlank-1	Analyte					
6 043099006	GEN011 RBS04289-SBlank-1	Analyte					
7 043099007	GEN011 RBS04289-5 ppb-1	Standard	4.93				
8 043099008	GEN011 RBS04289-10 ppb-1	Standard	9.76				
9 043099009	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.553	10	8.72 bb	-65
10 043099010	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.590	13	87.16 MM	77
11 043099011	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.644	11	47.01 bb	-52
12 043099012	GEN011 RBS04289-250 ppb-1	Standard	248.00	5.654	19	249.53 bb	1
13 043099013	GEN011 RBS04289-500 ppb-1	Standard	493.00	5.626	29	499.12 bb	1
14 043099014	GEN011 RBS04289-750 ppb-1	Standard	735.00	5.632	34	632.03 MM	-14
15 043099015	MeOH Blank	Analyte					
16 043099016	MeOH Blank	Analyte		5.703	50	1030.72 bb	
17 043099017	GEN011 RBS04289-WBlank-1	Analyte					
18 043099018	GEN011, 9394 (0.09 mL)	Analyte		5.679	16	178.76 MM	
19 043099019	GEN011, 9395 (0.07 mL)	Analyte		5.491	4	0.00 bb	
20 043099020	GEN011, 9396 (0.08 mL)	Analyte		5.627	26	428.38 bb	
21 043099021	GEN011, 9397 (0.07 mL)	Analyte		5.649	20	262.40 bb	
22 043099022	GEN011, 9398 (0.07 mL)	Analyte		5.632	66	1440.50 bb	
23 043099023	GEN011 RBS04289-50 ppb-1	QC	49.30	5.629	9	0.00 MM	-100
24 043099024	MeOH Blank	Analyte		5.544	6	0.00 MM	
25 043099025	GEN011 RBS04289-WBlank-1	Analyte					
26 043099026	GEN011, 9399 (0.07 mL)	Analyte		5.480	6	0.00 bb	
27 043099027	GEN011, 9400 (0.07 mL)	Analyte		5.614	23	344.15 bb	
28 043099028	GEN011, 9401 (0.08 mL)	Analyte		5.643	16	178.86 bb	
29 043099029	GEN011, 9402 (0.08 mL)	Analyte		5.617	22	328.33 bb	
30 043099030	GEN011, 9403 (0.07 mL)	Analyte		5.641	46	943.73 bb	
31 043099031	GEN011 RBS04289-50 ppb-1	QC	49.30				
32 043099032	GEN011 RBS04289-250 ppb, MS	Analyte		5.647	23	341.84 bb	
33 043099033	GEN011 RBS04289-250 ppb, MSD	Analyte		5.639	15	148.95 bb	
34 043099034	GEN011 RBS04289-50 ppb-1	QC	49.30				
35 043099035	MeOH Blank	Analyte					
36 043099036	GEN011 RBS04289-WBlank-2	Analyte					
37 043099037	GEN011 RBS04289-SBlank-2	Analyte					
38 043099038	GEN011 RBS04289-5 ppb-2	Standard	4.93				
39 043099039	GEN011 RBS04289-10 ppb-2	Standard	9.76				
40 043099040	GEN011 RBS04289-25 ppb-2	Standard	24.80				
41 043099041	GEN011 RBS04289-50 ppb-2	Standard	49.30	5.626	16	174.77 bbX	255
42 043099042	GEN011 RBS04289-100 ppb-2	Standard	97.60	5.639	13	106.26 MM	9
43 043099043	GEN011 RBS04289-250 ppb-2	Standard	248.00	5.598	23	355.64 MM	43
44 043099044	GEN011 RBS04289-500 ppb-2	Standard	493.00	5.648	28	473.47 MM	-4
45 043099045	GEN011 RBS04289-750 ppb-2	Standard	735.00	5.625	39	762.37 MM	4

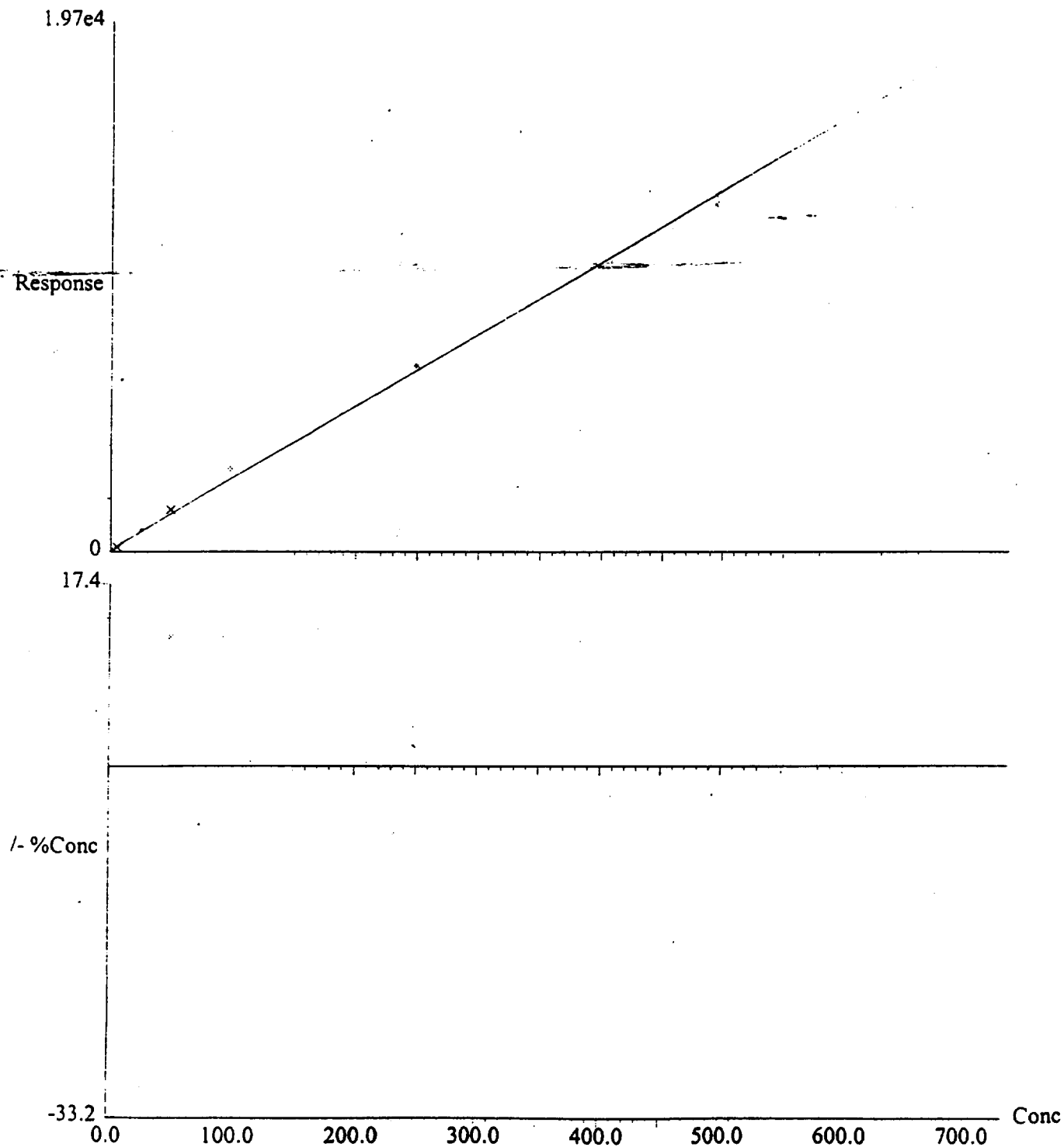
Calibration: C:\MASSLYNX\data2.PRO\CurveDB\043099a
 Last modified: Mon May 03 07:40:38 1999
 Printed: Mon May 03 07:40:58 1999

Compound 1 name: PFHS
 Coefficient of Determination: 0.998313
 Calibration curve: $2.33693 \cdot x + 6.12110$
 Response type: External Std, Area
 Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Calibration C:\MASSLYNX\data2.PRO\CurveDB\043099a
Last modified: Mon May 03 07:40:38 1999
Printed Mon May 03 07:40:58 1999

Compound 2 name: PFOS
Coefficient of Determination: 0.998238
Calibration curve: $26.7298 * x + 72.7186$
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Method Name: C:\MASSLYNX\rats2.PRO\MethDB\043099a.mdb
 Date Acquired: Mon May 03 07:33:57 1999

Compound: 1: PFHS

Printed: Mon May 03 07:53:34 1999

Amelia 062498

LAC 05/03/99

Compound Name: PFHS
 Internal Ref.: [None]
 Quantity Traced: TIC
 Conc. of Standards: Conc. A

User PE Value: 1.000000, Disabled
 User Peak Factor: 1.000000
 Integrate Window Factor: 2.000

Peak Properties

Retention Time (mins): 4.487, Enabled
 Percent Retention Time: 0.000, Disabled
 Time Above (mins): 0.584

Peak Label: Nearest

Response

Response Type: External
 Response: Areas

Calibration Curves

Polynomial Type: Linear
 Point of Origin: Exclude
 Fit Weighting: 1/X
 Axis Transformation: None

Concentration

Units:

Noise

Peak-to-peak amplitude: 206

Smooth

Smoothing: Disabled
 Window size (scans): 3
 Number of smooths: 2
 Smoothing method:

Baselines

Join valley threshold: 20.00
 Remove peak tailing: 50.00
 Raise baseline maximum: 5.00

Peak Repetition

Draw vertical threshold: 10.00
 Detect shoulders: Disabled
 Shoulder threshold: 40.00

Response Threshold

Relative height: 1.50, Disabled
 Absolute height: 0.00, Disabled
 Relative area: 2.00, Disabled
 Absolute area: 0.00, Disabled

Method: 01
 Method Name: C:\MASSLYNX\rats2.PRO\MethDB\043099a.mdb
 Last Modified: Mon May 03 07:33:57 1999
 Comments: 2: PFOS
 Printed: Mon May 03 07:53:34 1999

Amelia 062498 LAC 05/03/99

Compound Name: PFOS
 Internal Ref.: [None]
 Quantity Trade: TIC
 Control Standards: Conc. A
 User KF Value: 1.000000, Disabled
 User Peak Factor: 1.000000
 Integrate Window Factor: 2.000

Peak Location

Retention Time (mins): 5.186, Enabled
 Resolution Retention Time: 0.000, Disabled
 Delay After Retention: 0.390

Peak Resolution: Nearest

Response

Response Type: External
 Response: Areas

Calibration Curves

Polynomial Type: Linear
 Point of Origin: Exclude
 Fit Weighting: 1/X
 Axis Transformation: None

Concentration

Units:

Noise

Peak-to-peak amplitude: 218

Smooth

Smoothing: Disabled
 Window size (scans): 3
 Number of smooths: 2
 Smoothing method:

Baselines

Join valley threshold: 20.00
 Reduce peak tailing: 50.00
 Raise baseline maximum: 5.00

Peak Segregation

Draw vertical threshold: 10.00
 Detect shoulders: Disabled
 Shoulder threshold: 40.00

Response Threshold

Relative height: 1.50, Disabled
 Absolute height: 0.00, Disabled
 Relative area: 2.00, Disabled
 Absolute area: 0.00, Disabled

Method: C:\MASSLYNX\rats2.PRO\MethDB\043099a.mdb
Date: Mon May 03 07:33:57 1999
Component: J: PFDS
Printed: Mon May 03 07:53:34 1999

Amel.c 062493 LAC 05/03/99

Component Name: PFDS
Internal Ref: [None]
Quantity: TIC
Concentration Standards: Conc. A

User PE Value: 1.000000, Disabled
User Peak Factor: 1.000000
Integrate Window Factor: 2.000

Peak Location

Retention Time (mins): 5.573, Enabled
Relative Retention Time: 0.000, Disabled
Time Above Baseline: 0.228

Peak Assignment: Nearest

Response

Response Type: External
Response: Areas

Calibration Curves

Polynomial Type: Linear
Point of Origin: Exclude
Fit Weighting: 1/X
Axis Transformation: None

Concentration

Units:

Noise

Peak-to-peak amplitude: 60

Smooth

Smoothing: Disabled
Window size (scans): 3
Number of smooths: 2
Smoothing method:

Baselines

Join valley threshold: 20.00
Reduce peak tailing: 50.00
Raise baseline maximum: 5.00

Peak Separation

Inter-Vertical threshold: 10.00
Detect shoulders: Disabled
Shoulder threshold: 40.00

Response Threshold

Relative height: 1.50, Disabled
Absolute height: 0.00, Disabled
Relative area: 2.00, Disabled
Absolute area: 0.00, Disabled

Sample List: C:\MASSLYNX\FACT-1.PRO\SampleDB\050399b
Last modified: Mon May 03 16:01:10 1999
Method: C:\MASSLYNX\FACT-1.PRO\MethDB\050399b
Last modified: Tue May 04 11:06:51 1999
Job Code:

Printed: Tue May 04 11:19:20 1999

DHS
05/04/99

Compound 1: POAA

# Name	Samplelist Text	Type	Std Conc	RT	Area Di...	Conc.	Flags	%Dev
1 050399006	MeOH Blank	Analyte		5.112	29	1	0.00 NM	
2 050399007	MeOH Blank	Analyte		5.102	22	1	0.00 NM	
3 050399008	GEN011 RBS04289-WBlank-1	Analyte		5.023	34	1	0.00 NM	
4 050399009	GEN011 RBS04289-SBlank-1	Analyte		5.074	38	1	0.00 NM	
5 050399010	GEN011 RBS04289-5 ppb-1	Standard	4.93	5.030	61	1	43.68 NM	786
6 050399011	GEN011 RBS04289-10 ppb-1	Standard	9.76	5.039	50	1	12.23 NM	25
7 050399012	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.016	45	1	0.00 NM	-100
8 050399013	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.041	68	1	65.90 NM	34
9 050399014	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.029	86	1	120.18 NM	23
10 050399015	MeOH Blank	Analyte		5.097	28	1	0.00 NM	
11 050399016	MeOH Blank	Analyte		5.046	39	1	0.00 NM	
12 050399017	GEN011 RBS04289-WBlank-1	Analyte		5.019	98	1	155.38 bb	
13 050399018	GEN011, 9394 (0.09 mL)	Analyte		5.012	100	1	162.84 bb	
14 050399019	GEN011, 9395 (0.07 mL)	Analyte		5.019	113	1	202.02 NM	
15 050399020	GEN011, 9396 (0.08 mL)	Analyte		5.019	137	1	271.88 bb	
16 050399021	GEN011, 9397 (0.07 mL)	Analyte		5.020	124	1	231.37 bb	
17 050399022	GEN011, 9398 (0.07 mL)	Analyte		5.042	85	1	117.39 NM	138
18 050399023	GEN011 RBS04289-50 ppb-1	QC	49.30	5.042				
19 050399024	MeOH Blank	Analyte		5.039	42	1	0.00 NM	
20 050399025	GEN011 RBS04289-WBlank-1	Analyte		5.043	91	1	134.42 bb	
21 050399026	GEN011, 9399 (0.07 mL)	Analyte		5.013	203	1	473.43 bb	
22 050399027	GEN011, 9400 (0.07 mL)	Analyte		5.022	127	1	243.87 bb	
23 050399028	GEN011, 9401 (0.08 mL)	Analyte		5.034	111	1	195.93 bb	
24 050399029	GEN011, 9402 (0.08 mL)	Analyte		5.013	168	1	365.67 bb	
25 050399030	GEN011, 9403 (0.07 mL)	QC	49.30	5.023	85	1	116.98 bb	137
26 050399031	GEN011 RBS04289-50 ppb-1	Analyte		5.017	130	1	251.12 bb	
27 050399032	GEN011 RBS04289-250 ppb, MS	Analyte		5.020	101	1	166.53 bb	
28 050399033	GEN011 RBS04289-250 ppb, MSD	QC	49.30	5.043	53	1	21.61 NM	-56
29 050399034	GEN011 RBS04289-50 ppb-1	Analyte		5.120	20	1	0.00 NM	
30 050399035	MeOH Blank	Analyte		5.034	30	1	0.00 NM	
31 050399036	GEN011 RBS04289-WBlank-2	Analyte		5.045	61	1	43.72 NM	
32 050399037	GEN011 RBS04289-SBlank-2	Standard	4.93	5.050	38	1	0.00 NM	-100
33 050399038	GEN011 RBS04289-5 ppb-2	Standard	9.76	5.030	47	1	2.51 NM	-74
34 050399039	GEN011 RBS04289-10 ppb-2	Standard	24.80	5.014	49	1	7.88 NM	-68
35 050399040	GEN011 RBS04289-25 ppb-2	Standard	49.30	5.034	56	1	28.58 NM	-42
36 050399041	GEN011 RBS04289-50 ppb-2	Standard	97.60	5.020	86	1	119.72 NM	23
37 050399042	GEN011 RBS04289-100 ppb-2							

qualitative data only

DO NOT ENTER in DATABASE

DHS
05/04/99

Quantify Compound Summary Report
GEN-011 Human Sera / Qualitative Compound Check

Page 2

Sample List: C:\MASSLYNK\FACT-1.PRO\SampleDB\050399b
Last modified: Mon May 03 16:01:10 1999
Method: C:\MASSLYNK\FACT-1.PRO\MethDB\050399b
Last modified: Tue May 04 11:06:51 1999
Job Code:

Printed: Tue May 04 11:19:20 1999

045
05/04/99

Compound 2: M463

# Name	Samplelist Text	Type	Std Conc	RT	Area Di..	Conc. Flags %Dev
1 050399006	MeOH Blank	Analyte				
2 050399007	MeOH Blank	Analyte				
3 050399008	GEN011 RBS04289-WBlank-1	Analyte				
4 050399009	GEN011 RBS04289-SBlank-1	Analyte				
5 050399010	GEN011 RBS04289-5 ppb-1	Standard	4.93			
6 050399011	GEN011 RBS04289-10 ppb-1	Standard	9.76			
7 050399012	GEN011 RBS04289-25 ppb-1	Standard	24.80			
8 050399013	GEN011 RBS04289-50 ppb-1	Standard	49.30			
9 050399014	GEN011 RBS04289-100 ppb-1	Standard	97.60			
10 050399015	MeOH Blank	Analyte				
11 050399016	MeOH Blank	Analyte				
12 050399017	GEN011 RBS04289-WBlank-1	Analyte				
13 050399018	GEN011, 9394 (0.09 mL)	Analyte	5.259	21	1	NOI
14 050399019	GEN011, 9395 (0.07 mL)	Analyte	5.279	20	1	NOI
15 050399020	GEN011, 9396 (0.08 mL)	Analyte	5.285	22	1	NOI
16 050399021	GEN011, 9397 (0.07 mL)	Analyte	5.259	34	1	NOI
17 050399022	GEN011, 9398 (0.07 mL)	Analyte	5.289	48	1	NOI
18 050399023	GEN011 RBS04289-50 ppb-1	QC	49.30			
19 050399024	MeOH Blank	Analyte				
20 050399025	GEN011 RBS04289-WBlank-1	Analyte				
21 050399026	GEN011, 9399 (0.07 mL)	Analyte	5.310	20	1	NOI
22 050399027	GEN011, 9400 (0.07 mL)	Analyte	5.280	18	1	NOI
23 050399028	GEN011, 9401 (0.08 mL)	Analyte	5.291	20	1	NOI
24 050399029	GEN011, 9402 (0.08 mL)	Analyte	5.275	47	1	NOI
25 050399030	GEN011, 9403 (0.07 mL)	Analyte	5.254	47	1	NOI
26 050399031	GEN011 RBS04289-50 ppb-1	QC	49.30			
27 050399032	GEN011 RBS04289-250 ppb, MS	Analyte	5.256	17	1	NOI
28 050399033	GEN011 RBS04289-250 ppb, MSD	Analyte	5.287	17	1	NOI
29 050399034	GEN011 RBS04289-50 ppb-1	QC	49.30			
30 050399035	MeOH Blank	Analyte				
31 050399036	GEN011 RBS04289-WBlank-2	Analyte				
32 050399037	GEN011 RBS04289-SBlank-2	Analyte				
33 050399038	GEN011 RBS04289-5 ppb-2	Standard	4.93			
34 050399039	GEN011 RBS04289-10 ppb-2	Standard	9.76			
35 050399040	GEN011 RBS04289-25 ppb-2	Standard	24.80			
36 050399041	GEN011 RBS04289-50 ppb-2	Standard	49.30			
37 050399042	GEN011 RBS04289-100 ppb-2	Standard	97.60			

Qualitative data only not entered.

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Quantify Compound Summary Report
GEN-011 Human Sera / Qualitative Compound Check

Page 3

Sample List: C:\MASSLYNK\FACT-1.PRO\SampleDB\050399b
Last modified: Mon May 03 16:01:10 1999
Method: C:\MASSLYNK\FACT-1.PRO\MethodDB\050399b
Last modified: Tue May 04 11:06:51 1999
Job Code:

Printed: Tue May 04 11:19:20 1999

DLB
05/04/99

Compound 3: MS13

#	Name	Samplelist Text	Type	Std Conc	RT	Area Di..	Conc. Flags	%Dev
1	050399006	MeOH Blank	Analyte					
2	050399007	MeOH Blank	Analyte					
3	050399008	GEN011 RRS04289-WBlank-1	Analyte					
4	050399009	GEN011 RRS04289-SBlank-1	Analyte					
5	050399010	GEN011 RRS04289-5 ppb-1	Standard	4.93				
6	050399011	GEN011 RRS04289-10 ppb-1	Standard	9.76				
7	050399012	GEN011 RRS04289-25 ppb-1	Standard	24.80				
8	050399013	GEN011 RRS04289-50 ppb-1	Standard	49.30				
9	050399014	GEN011 RRS04289-100 ppb-1	Standard	97.60				
10	050399015	MeOH Blank	Analyte					
11	050399016	MeOH Blank	Analyte					
12	050399017	GEN011 RRS04289-WBlank-1	Analyte					
13	050399018	GEN011, 9394 (0.09 mL)	Analyte					
14	050399019	GEN011, 9395 (0.07 mL)	Analyte					
15	050399020	GEN011, 9396 (0.08 mL)	Analyte					
16	050399021	GEN011, 9397 (0.07 mL)	Analyte					
17	050399022	GEN011, 9398 (0.07 mL)	Analyte					
18	050399023	GEN011 RRS04289-50 ppb-1	QC	49.30				
19	050399024	MeOH Blank	Analyte					
20	050399025	GEN011 RRS04289-WBlank-1	Analyte					
21	050399026	GEN011, 9399 (0.07 mL)	Analyte					
22	050399027	GEN011, 9400 (0.07 mL)	Analyte					
23	050399028	GEN011, 9401 (0.08 mL)	Analyte					
24	050399029	GEN011, 9402 (0.08 mL)	Analyte					
25	050399030	GEN011, 9403 (0.07 mL)	Analyte					
26	050399031	GEN011 RRS04289-50 ppb-1	QC	49.30				
27	050399032	GEN011 RRS04289-250 ppb, MS	Analyte					
28	050399033	GEN011 RRS04289-250 ppb, MSD	Analyte					
29	050399034	GEN011 RRS04289-50 ppb-1	QC	49.30				
30	050399035	MeOH Blank	Analyte					
31	050399036	GEN011 RRS04289-WBlank-2	Analyte					
32	050399037	GEN011 RRS04289-SBlank-2	Analyte					
33	050399038	GEN011 RRS04289-5 ppb-2	Standard	4.93				
34	050399039	GEN011 RRS04289-10 ppb-2	Standard	9.76				
35	050399040	GEN011 RRS04289-25 ppb-2	Standard	24.80				
36	050399041	GEN011 RRS04289-50 ppb-2	Standard	49.30				
37	050399042	GEN011 RRS04289-100 ppb-2	Standard	97.60				

Qualitative data only. not entered

uc 05/05/99

Quantify Compound Summary Report
GEN-011 Human Sera / Qualitative Compound Check

Sample List: C:\MASSLYNK\FACT-1.PRO\SampleDB\050399b
Last modified: Mon May 03 16:01:10 1999
Method: C:\MASSLYNK\FACT-1.PRO\MethDB\050399b
Last modified: Tue May 04 11:06:51 1999
Job Code:

Printed: Tue May 04 11:19:20 1999

DLB
05/04/99

Compound 4: surr

# Name	Samplelist Text	Type	Std Conc	RT	Area Di..	Conc. Flags	%Dev
1 050399006	MeOH Blank	Analyte					
2 050399007	MeOH Blank	Analyte					
3 050399008	GEN011 RBS04289-WBlank-1	Analyte		5.016	1624	1 0.81 bb	-19
4 050399009	GEN011 RBS04289-SBlank-1	Analyte		5.008	1839	1 0.91 bb	-9
5 050399010	GEN011 RBS04289-5 ppb-1	Standard	1.00	5.022	1769	1 0.88 bb	-12
6 050399011	GEN011 RBS04289-10 ppb-1	Standard	1.00	5.002	1875	1 0.93 bb	-7
7 050399012	GEN011 RBS04289-25 ppb-1	Standard	1.00	5.009	1791	1 0.89 bb	-11
8 050399013	GEN011 RBS04289-50 ppb-1	Standard	1.00	5.005	1535	1 0.76 bb	-24
9 050399014	GEN011 RBS04289-100 ppb-1	Standard	1.00	5.022	1891	1 0.94 bb	-6
10 050399015	MeOH Blank	Analyte					
11 050399016	MeOH Blank	Analyte					
12 050399017	GEN011 RBS04289-WBlank-1	Analyte		5.010	1893	1 0.94 bb	-6
13 050399018	GEN011 9394 (0.09 mL)	Analyte		5.012	3937	1 1.96 bb	96
14 050399019	GEN011 9395 (0.07 mL)	Analyte		5.004	4584	1 2.28 bb	128
15 050399020	GEN011 9396 (0.08 mL)	Analyte		5.012	4072	1 2.03 bb	103
16 050399021	GEN011 9397 (0.07 mL)	Analyte		5.012	4269	1 2.12 bb	112
17 050399022	GEN011 9398 (0.07 mL)	Analyte		5.012	3633	1 1.81 bb	81
18 050399023	GEN011 RBS04289-50 ppb-1	QC	1.00	5.006	1782	1 0.89 bb	-11
19 050399024	MeOH Blank	Analyte					
20 050399025	GEN011 RBS04289-WBlank-1	Analyte		5.012	2179	1 1.08 bb	8
21 050399026	GEN011 9399 (0.07 mL)	Analyte		5.008	4258	1 2.12 bb	112
22 050399027	GEN011 9400 (0.07 mL)	Analyte		5.006	4844	1 2.41 bb	141
23 050399028	GEN011 9401 (0.08 mL)	Analyte		5.015	5032	1 2.50 bb	150
24 050399029	GEN011 9402 (0.08 mL)	Analyte		4.998	4395	1 2.19 bb	119
25 050399030	GEN011 9403 (0.07 mL)	Analyte		5.006	7774	1 3.87 bb	287
26 050399031	GEN011 RBS04289-50 ppb-1	QC	1.00	5.016	1979	1 0.98 bb	-2
27 050399032	GEN011 RBS04289-250 ppb, MS	Analyte		5.010	4326	1 2.15 bb	115
28 050399033	GEN011 RBS04289-250 ppb, MSD	Analyte		5.013	3993	1 1.99 bb	99
29 050399034	GEN011 RBS04289-50 ppb-1	QC	1.00	5.007	2442	1 1.21 bb	21
30 050399035	MeOH Blank	Analyte					
31 050399036	GEN011 RBS04289-WBlank-2	Analyte		5.026	1896	1 0.94 bb	-6
32 050399037	GEN011 RBS04289-SBlank-2	Analyte		5.008	2227	1 1.11 bb	11
33 050399038	GEN011 RBS04289-5 ppb-2	Standard	1.00	5.014	2203	1 1.10 bb	10
34 050399039	GEN011 RBS04289-10 ppb-2	Standard	1.00	5.023	2162	1 1.07 bb	7
35 050399040	GEN011 RBS04289-25 ppb-2	Standard	1.00	5.006	2241	1 1.11 bb	11
36 050399041	GEN011 RBS04289-50 ppb-2	Standard	1.00	5.027	2449	1 1.22 bb	22
37 050399042	GEN011 RBS04289-100 ppb-2	Standard	1.00	5.013	2194	1 1.09 bb	9

Qualitative data only. not entered

uc 05/05/99

Method Report

Page 1

Method file: C:\MASSLYNX\FACT-1.PRO\MethDB\050399b.mdb
Last modified: Tue May 04 11:06:51 1999

Compound: 1: POAA

Printed: Tue May 04 14:11:29 1999

Samp 020199 LAC 05/05/99

Compound Name: POAA
Internal Ref.: [None]
Quantify Trace: TIC
Conc. of Standards: Conc. A
User RF Value: 1.000000, Disabled
User Peak Factor: 1.000000
Integrate Window Factor: 2.000

Retention Time (mins): 4.976, Enabled
Relative Retention Time: 0.000, Disabled
Time Window (mins): 0.421

Peak Selection: Nearest

Response Type: External
Response: Areas

Polynomial Type: Linear
Point of Origin: Exclude
Fit Weighting: 1/X
Axis Transformation: None

Units:

Peak-to-peak amplitude: 230

Smoothing: Disabled
Window size (scans): 1
Number of smooths: 2
Smoothing method:

Join valley threshold: 20.00
Reduce peak tailing: 100.00
Raise baseline maximum: 0.00

Draw vertical threshold: 10.00
Detect shoulders: Disabled
Shoulder threshold: 40.00

Relative height: 1.50, Disabled
Absolute height: 0.00, Disabled
Relative area: 2.00, Disabled
Absolute area: 60.00, Enabled

0.45
25/04/99

Method Report

Page 2

Method file: C:\MASSLYNX\FACT-1.PRO\MethDB\050399b.mdb
Last modified: Tue May 04 11:06:51 1999

Compound: 2: M463

Printed: Tue May 04 16:11:29 1999

Scup 020199 LAL 05/05/99

Compound Name: M463
Internal Ref.: (None)
Quantify Trace: TIC
Conc. of Standards: Conc. A

User RF Value: 1.000000, Disabled
User Peak Factor: 1.000000
Integrate Window Factor: 2.000

Retention Time (mins): 5.302, Enabled
Relative Retention Time: 0.000, Disabled
Time Window (mins): 0.188

Peak Selection: Nearest

Response Type: External
Response: Areas

Polynomial Type: Linear
Point of Origin: Exclude
Fit Weighting: 1/X
Axis Transformation: None

Units:

Peak-to-peak amplitude: 114

Smoothing: Disabled
Window size (scans): 3
Number of smooths: 2
Smoothing method:

Join valley threshold: 20.00
Reduce peak tailing: 100.00
Raise baseline maximum: 0.00

Draw vertical threshold: 10.00
Detect shoulders: Disabled
Shoulder threshold: 40.00

Relative height: 1.50, Disabled
Absolute height: 0.00, Disabled
Relative area: 2.00, Disabled
Absolute area: 80.00, Enabled

05/04/99
1148

Method Report

Page 3

Method file: C:\MASSLYNX\FACT-1.PRO\MethDB\050399b.mdb
Last modified: Tue May 04 11:06:51 1999

Compound: 1: N513

Printed: Tue May 04 14:11:29 1999

Soup 020199 LAL 05/05/99

Compound Name: N513
Internal Ref.: [None]
Quantify Trace: TIC
Conc. of Standards: Conc. A
User RF Value: 1.000000, Disabled
User Peak Factor: 1.000000
Integrate Window Factor: 2.000

Retention Time (mins): 0.324, Enabled
Relative Retention Time: 0.000, Disabled
Time Window (mins): 0.724

Peak Selection: Nearest

Response Type: External
Response: Areas

Polynomial Type: Linear
Point of Origin: Exclude
Fit Weighting: 1/X
Axis Transformation: None

Units:

Peak-to-peak amplitude: 114

Smoothing: Disabled
Window size (scans): 3
Number of smooths: 2
Smoothing method:

Join valley threshold: 20.00
Reduce peak tailing: 100.00
Raise baseline maximum: 0.00

Draw vertical threshold: 10.00
Detect shoulders: Disabled
Shoulder threshold: 40.00

Relative height: 1.50, Disabled
Absolute height: 0.00, Disabled
Relative area: 2.00, Disabled
Absolute area: 80.00, Enabled

NALB
05/04/99

Method Report

Method file: C:\MASSLYNX\FACT-1.PRO\MethDB\050399b.mdb
Last modified: Tue May 04 11:06:51 1999

Compound: 4: surr

Printed: Tue May 04 14:11:29 1999

Soup 020199 LAL 05/05/99

Compound Name: surr
Internal Ref.: [None]
Quantify Trace: TIC
Conc. of Standards: Fixed
User RP Value: 1.000000, Disabled
User Peak Factor: 1.000000
Integrate Window Factor: 2.000

Retention Time (mins): 4.925, Enabled
Relative Retention Time: 0.000, Disabled
Time Window (mins): 0.348

Peak Selection: Nearest

Response Type: External
Response: Area

Polynomial Type: Linear
Point of Origin: Exclude
Fit Weighting: 1/X
Axis Transformation: None

Units:

Peak-to-peak amplitude: 114

Smoothing: Disabled
Window size (scans): 3
Number of smooths: 2
Smoothing method:

Join valley threshold: 20.00
Reduce peak tailing: 100.00
Raise baseline maximum: 0.00

Draw vertical threshold: 10.00
Detect shoulders: Disabled
Shoulder threshold: 40.00

Relative height: 1.50, Disabled
Absolute height: 0.00, Disabled
Relative area: 2.00, Disabled
Absolute area: 80.00, Enabled

Dick
05/04/99

Quantify Compound Summary Report
GEN-011 Human Sera / Qualitative Compound Check II

Sample List: C:\MSSELYNK\FACT-1.PRO\SampleDB\050399c
Last modified: Mon May 03 16:43:03 1999
Method: C:\MSSELYNK\FACT-1.PRO\MethodB\050399c
Last modified: Wed May 05 09:55:55 1999
Job Code:

Printed: Wed May 05 10:03:17 1999

DHS
05/05/99

Compound 1: PFOA

# Name	Samplelist Text	Type	Std Conc	RT	Area Di..	Conc. Flags	%Dev
1 050399043	MeOH Blank	Analyte		6.123	239	1 0.85 bb	
2 050399044	MeOH Blank	Analyte		6.143	186	1 0.42 bb	
3 050399045	GEN011 RBS04289-WBlank-1	Analyte		6.145	189	1 0.44 bb	
4 050399046	GEN011 RBS04289-SBlank-1	Analyte		6.145	162	1 0.21 bb	
5 050399047	GEN011 RBS04289-5 ppb-1	Standard	4.93	6.065	729	1 4.91 bb	0
6 050399048	GEN011 RBS04289-10 ppb-1	Standard	9.76	6.059	1340	1 9.97 bb	2
7 050399049	GEN011 RBS04289-25 ppb-1	Standard	24.80	6.062	3103	1 24.57 bb	-1
8 050399050	GEN011 RBS04289-50 ppb-1	Standard	49.30	6.062	6126	1 49.60 bb	1
9 050399051	GEN011 RBS04289-100 ppb-1	Standard	97.60	6.066	12048	1 98.64 bb	1
10 050399052	MeOH Blank	Analyte		6.107	207	1 0.59 bb	
11 050399053	MeOH Blank	Analyte		6.146	216	1 0.66 bb	
12 050399054	GEN011 RBS04289-WBlank-1	Analyte		6.147	179	1 0.36 bb	
13 050399055	GEN011, 9394 (0.09 mL)	Analyte		6.107	156	1 0.17 bb	
14 050399056	GEN011, 9395 (0.07 mL)	Analyte		6.103	138	1 0.02 bb	
15 050399057	GEN011, 9396 (0.08 mL)	Analyte		6.115	161	1 0.21 bb	
16 050399058	GEN011, 9397 (0.07 mL)	Analyte		6.142	143	1 0.06 bb	
17 050399059	GEN011, 9398 (0.07 mL)	Analyte		6.106	170	1 0.28 bb	
18 050399060	GEN011 RBS04289-50 ppb-1	QC	49.30	6.062	5813	1 47.01 bb	-5
19 050399061	MeOH Blank	Analyte		6.151	206	1 0.58 bb	
20 050399062	GEN011 RBS04289-WBlank-1	Analyte		6.149	194	1 0.48 bb	
21 050399063	GEN011, 9399 (0.07 mL)	Analyte		6.103	154	1 0.13 bb	
22 050399064	GEN011, 9400 (0.07 mL)	Analyte		6.141	158	1 0.19 bb	
23 050399065	GEN011, 9401 (0.08 mL)	Analyte		6.148	148	1 0.10 bb	
24 050399066	GEN011, 9402 (0.08 mL)	Analyte		6.142	129	1 0.00 bb	
25 050399067	GEN011, 9403 (0.07 mL)	Analyte		6.104	111	1 0.00 bb	
26 050399068	GEN011 RBS04289-50 ppb-1	QC	49.30	6.061	5190	1 41.85 bb	-15
27 050399069	GEN011 RBS04289-250 ppb, MS	Analyte		6.059	24445	1 201.30 bb	
28 050399070	GEN011 RBS04289-250 ppb, MSD	Analyte		6.058	22905	1 188.54 bb	
29 050399071	GEN011 RBS04289-50 ppb-1	QC	49.30	6.082	6123	1 49.58 bb	1
30 050399072	MeOH Blank	Analyte		6.148	240	1 0.86 bb	
31 050399073	GEN011 RBS04289-WBlank-2	Analyte		6.148	216	1 0.67 bb	
32 050399074	GEN011 RBS04289-SBlank-2	Analyte		6.141	161	1 0.21 bb	
33 050399075	GEN011 RBS04289-5 ppb-2	Standard	4.93	6.060	748	1 5.07 bb	3
34 050399076	GEN011 RBS04289-10 ppb-2	Standard	9.76	6.061	1276	1 9.44 bb	-3
35 050399077	GEN011 RBS04289-25 ppb-2	Standard	24.80	6.061	3078	1 24.37 bb	-2
36 050399078	GEN011 RBS04289-50 ppb-2	Standard	49.30	6.064	6119	1 49.54 bb	0
37 050399079	GEN011 RBS04289-100 ppb-2	Standard	97.60	6.046	11809	1 96.66 bb	-1

Qualitative data only

DHS
05/05/99

Sample List: C:\MASSLYNK\FACT-1.PRO\SampleDB\050399c
 Last modified: Mon May 03 16:43:03 1999
 Method: C:\MASSLYNK\FACT-1.PRO\MethDB\050399c
 Last modified: Wed May 05 09:55:55 1999
 Job Code:

Printed: Wed May 05 10:03:17 1999

DRB
05/05/99

Compound 2: PFOBAA

# Name	Samplelist Text	Type	Std Conc	RT	Area Di..	Conc. Flags	%Dev
1 050399043	MeOH Blank	Analyte					
2 050399044	MeOH Blank	Analyte					
3 050399045	GEN011 RBS04289-WBlank-1	Analyte					
4 050399046	GEN011 RBS04289-SBlank-1	Analyte					
5 050399047	GEN011 RBS04289-5 ppb-1	Standard	4.93	5.649	55	1	4.14 NM -16
6 050399048	GEN011 RBS04289-10 ppb-1	Standard	9.76	5.688	118	1	10.42 bb 7
7 050399049	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.690	277	1	26.28 bb 6
8 050399050	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.647	517	1	50.30 bb 2
9 050399051	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.691	948	1	93.37 bb -4
10 050399052	MeOH Blank	Analyte					
11 050399053	MeOH Blank	Analyte					
12 050399054	GEN011 RBS04289-WBlank-1	Analyte					
13 050399055	GEN011, 9394 (0.09 mL)	Analyte		5.648	29	1	1.54 NM
14 050399056	GEN011, 9395 (0.07 mL)	Analyte		5.687	33	1	1.94 NM
15 050399057	GEN011, 9396 (0.08 mL)	Analyte		5.658	29	1	1.56 NM
16 050399058	GEN011, 9397 (0.07 mL)	Analyte					
17 050399059	GEN011, 9398 (0.07 mL)	Analyte					
18 050399060	GEN011 RBS04289-50 ppb-1	QC	49.30	5.688	515	1	50.13 bb 2
19 050399061	MeOH Blank	Analyte					
20 050399062	GEN011 RBS04289-WBlank-1	Analyte					
21 050399063	GEN011, 9399 (0.07 mL)	Analyte					
22 050399064	GEN011, 9400 (0.07 mL)	Analyte		5.683	14	1	0.02 NM
23 050399065	GEN011, 9401 (0.08 mL)	Analyte					
24 050399066	GEN011, 9402 (0.08 mL)	Analyte					
25 050399067	GEN011, 9403 (0.07 mL)	Analyte					
26 050399068	GEN011 RBS04289-50 ppb-1	QC	49.30	5.645	16	1	2.23 NM
27 050399069	GEN011 RBS04289-250 ppb, MS	Analyte		5.687	651	1	63.72 bb 29
28 050399070	GEN011 RBS04289-250 ppb, MSD	Analyte		5.645	2217	1	220.16 bb
29 050399071	GEN011 RBS04289-50 ppb-1	QC	49.30	5.644	2102	1	208.65 bb
30 050399072	MeOH Blank	Analyte		5.664	529	1	51.46 bb 4
31 050399073	GEN011 RBS04289-WBlank-2	Analyte		5.647	31	1	1.80 NM
32 050399074	GEN011 RBS04289-SBlank-2	Analyte					
33 050399075	GEN011 RBS04289-5 ppb-2	Standard	4.93	5.646	62	1	4.87 NM -1
34 050399076	GEN011 RBS04289-10 ppb-2	Standard	9.76	5.690	109	1	9.57 bb -2
35 050399077	GEN011 RBS04289-25 ppb-2	Standard	24.80	5.645	273	1	25.91 bb 4
36 050399078	GEN011 RBS04289-50 ppb-2	Standard	49.30	5.649	539	1	52.51 bb 7
37 050399079	GEN011 RBS04289-100 ppb-2	Standard	97.60	5.675	969	1	95.40 NM -2

Qualitative data not entered.

UC 05/05/99

Sample List: C:\MASSLYTK\FAC-1.PRO\SampleDB\050399c
 Last modified: Mon May 03 16:43:03 1999
 Method: C:\MASSLYTK\FAC-1.PRO\MethDB\050399c
 Last modified: Wed May 05 09:55:55 1999
 Job Code:

Printed: Wed May 05 10:03:17 1999

DHB
 05/05/99

Compound 3: M570

# Name	Samplelist Text	Type	Std Conc	RT	Area Di..	Conc. Flags	%Dev
1 050399043	MeOH Blank	Analyte					
2 050399044	MeOH Blank	Analyte					
3 050399045	GEN011 RBS04289-WBlank-1	Analyte					
4 050399046	GEN011 RBS04289-SBlank-1	Analyte					
5 050399047	GEN011 RBS04289-5 ppb-1	Standard	4.93				
6 050399048	GEN011 RBS04289-10 ppb-1	Standard	9.76				
7 050399049	GEN011 RBS04289-25 ppb-1	Standard	24.80				
8 050399050	GEN011 RBS04289-50 ppb-1	Standard	49.30				
9 050399051	GEN011 RBS04289-100 ppb-1	Standard	97.60				
10 050399052	MeOH Blank	Analyte					
11 050399053	MeOH Blank	Analyte					
12 050399054	GEN011 RBS04289-WBlank-1	Analyte					
13 050399055	GEN011, 9394 (0.09 mL)	Analyte					
14 050399056	GEN011, 9395 (0.07 mL)	Analyte					
15 050399057	GEN011, 9396 (0.08 mL)	Analyte					
16 050399058	GEN011, 9397 (0.07 mL)	Analyte					
17 050399059	GEN011, 9398 (0.07 mL)	Analyte					
18 050399060	GEN011 RBS04289-50 ppb-1	QC	49.30				
19 050399061	MeOH Blank	Analyte					
20 050399062	GEN011 RBS04289-WBlank-1	Analyte					
21 050399063	GEN011, 9399 (0.07 mL)	Analyte					
22 050399064	GEN011, 9400 (0.07 mL)	Analyte					
23 050399065	GEN011, 9401 (0.08 mL)	Analyte					
24 050399066	GEN011, 9402 (0.08 mL)	Analyte					
25 050399067	GEN011, 9403 (0.07 mL)	Analyte					
26 050399068	GEN011 RBS04289-50 ppb-1	QC	49.30				
27 050399069	GEN011 RBS04289-250 ppb, MS	Analyte					
28 050399070	GEN011 RBS04289-250 ppb, MSD	Analyte					
29 050399071	GEN011 RBS04289-50 ppb-1	QC	49.30				
30 050399072	MeOH Blank	Analyte					
31 050399073	GEN011 RBS04289-WBlank-2	Analyte					
32 050399074	GEN011 RBS04289-SBlank-2	Analyte					
33 050399075	GEN011 RBS04289-5 ppb-2	Standard	4.93				
34 050399076	GEN011 RBS04289-10 ppb-2	Standard	9.76				
35 050399077	GEN011 RBS04289-25 ppb-2	Standard	24.80				
36 050399078	GEN011 RBS04289-50 ppb-2	Standard	49.30				
37 050399079	GEN011 RBS04289-100 ppb-2	Standard	97.60				

Qualitative data, not entered

LAC 05/05/99

Sample List: C:\MASSLYNK\FACT-1.PRO\SampleDS\050399c
Last modified: Mon May 03 16:43:03 1999
Method: C:\MASSLYNK\FACT-1.PRO\MethDS\050399c
Last modified: Wed May 05 09:55:55 1999
Job Code:

Printed: Wed May 05 10:03:17 1999

DRB
05/05/99

Compound 4: MS56

# Name	Samplelist Text	Type	Std Conc	RT	Area Di...	Conc. Flags	%Dev
1 050399043	MeOH Blank	Analyte					
2 050399044	MeOH Blank	Analyte					
3 050399045	GEN011 RBS04289-WBlank-1	Analyte					
4 050399046	GEN011 RBS04289-SBlank-1	Analyte					
5 050399047	GEN011 RBS04289-5 ppb-1	Standard	4.93	5.588	41	4.33 NM	-12
6 050399048	GEN011 RBS04289-10 ppb-1	Standard	9.76	5.540	81	9.82 NM	1
7 050399049	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.544	223	29.23 bb	18
8 050399050	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.543	388	51.68 bb	5
9 050399051	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.545	726	97.90 bb	0
10 050399052	MeOH Blank	Analyte					
11 050399053	MeOH Blank	Analyte					
12 050399054	GEN011 RBS04289-WBlank-1	Analyte					
13 050399055	GEN011, 9394 (0.09 mL)	Analyte					
14 050399056	GEN011, 9395 (0.07 mL)	Analyte					
15 050399057	GEN011, 9396 (0.08 mL)	Analyte					
16 050399058	GEN011, 9397 (0.07 mL)	Analyte					
17 050399059	GEN011, 9398 (0.07 mL)	Analyte					
18 050399060	GEN011 RBS04289-50 ppb-1	QC	49.30	5.543	339	45.08 bb	-9
19 050399061	MeOH Blank	Analyte					
20 050399062	GEN011 RBS04289-WBlank-1	Analyte					
21 050399063	GEN011, 9399 (0.07 mL)	Analyte					
22 050399064	GEN011, 9400 (0.07 mL)	Analyte					
23 050399065	GEN011, 9401 (0.08 mL)	Analyte					
24 050399066	GEN011, 9402 (0.08 mL)	Analyte					
25 050399067	GEN011, 9403 (0.07 mL)	Analyte					
26 050399068	GEN011 RBS04289-50 ppb-1	QC	49.30	5.542	358	47.61 NM	-3
27 050399069	GEN011 RBS04289-250 ppb, MS	Analyte		5.498	2121	288.47 bb	
28 050399070	GEN011 RBS04289-250 ppb, MSD	Analyte		5.497	1985	269.87 bb	
29 050399071	GEN011 RBS04289-50 ppb-1	QC	49.30	5.552	389	51.86 bb	5
30 050399072	MeOH Blank	Analyte					
31 050399073	GEN011 RBS04289-WBlank-2	Analyte					
32 050399074	GEN011 RBS04289-SBlank-2	Analyte					
33 050399075	GEN011 RBS04289-5 ppb-2	Standard	4.93	5.585	48	5.29 NM	7
34 050399076	GEN011 RBS04289-10 ppb-2	Standard	9.76	5.543	72	8.52 NM	-13
35 050399077	GEN011 RBS04289-25 ppb-2	Standard	24.80	5.542	180	23.27 bb	-6
36 050399078	GEN011 RBS04289-50 ppb-2	Standard	49.30	5.544	403	53.72 bb	9
37 050399079	GEN011 RBS04289-100 ppb-2	Standard	97.60	5.529	661	89.03 NM	-9

Qualitative data, not entered

LAC 05/05/99

Sample List: C:\MASSLYNK\FACT-1.PRO\SampleDB\050399c
Last modified: Mon May 03 16:43:03 1999
Method: C:\MASSLYNK\FACT-1.PRO\MethDB\050399c
Last modified: Wed May 03 09:55:55 1999
Job Code:

Handwritten: DHB
05/05/99

Printed: Wed May 03 10:03:17 1999

Compound 5: surr

# Name	Samplelist Text	Type	Std Conc	RT	Area Di...	Conc. Flags	%Dev
1 050399043	MeOH Blank	Analyte					
2 050399044	MeOH Blank	Analyte					
3 050399045	GEN011 RBS04289-WBlank-1	Analyte		4.994	2048	1.01 bb	1
4 050399046	GEN011 RBS04289-SBlank-1	Analyte		4.998	2299	1.13 bb	13
5 050399047	GEN011 RBS04289-5 ppb-1	Standard	1.00	4.997	2055	1.01 bb	1
6 050399048	GEN011 RBS04289-10 ppb-1	Standard	1.00	5.035	2153	1.06 bb	6
7 050399049	GEN011 RBS04289-25 ppb-1	Standard	1.00	4.996	2000	0.98 bb	-2
8 050399050	GEN011 RBS04289-50 ppb-1	Standard	1.00	4.996	1683	0.83 bb	-17
9 050399051	GEN011 RBS04289-100 ppb-1	Standard	1.00	4.999	1988	0.98 bb	-2
10 050399052	MeOH Blank	Analyte					
11 050399053	MeOH Blank	Analyte					
12 050399054	GEN011 RBS04289-WBlank-1	Analyte		4.995	1986	0.98 bb	-2
13 050399055	GEN011, 9394 (0.09 mL)	Analyte		4.999	4144	2.03 bb	103
14 050399056	GEN011, 9395 (0.07 mL)	Analyte		4.992	4751	2.33 bb	133
15 050399057	GEN011, 9396 (0.08 mL)	Analyte		4.994	4225	2.07 bb	107
16 050399058	GEN011, 9397 (0.07 mL)	Analyte		4.990	4496	2.21 bb	121
17 050399059	GEN011, 9398 (0.07 mL)	Analyte		4.997	3691	1.81 bb	81
18 050399060	GEN011 RBS04289-50 ppb-1	QC	1.00	4.993	1738	0.85 bb	-15
19 050399061	MeOH Blank	Analyte					
20 050399062	GEN011 RBS04289-WBlank-1	Analyte		4.996	1964	0.96 bb	-4
21 050399063	GEN011, 9399 (0.07 mL)	Analyte		4.995	4095	2.01 bb	101
22 050399064	GEN011, 9400 (0.07 mL)	Analyte		4.991	4606	2.26 bb	126
23 050399065	GEN011, 9401 (0.08 mL)	Analyte		4.998	4901	2.41 bb	141
24 050399066	GEN011, 9402 (0.08 mL)	Analyte		4.994	4196	2.06 bb	106
25 050399067	GEN011, 9403 (0.07 mL)	Analyte		4.994	8708	4.27 bb	327
26 050399068	GEN011 RBS04289-50 ppb-1	QC	1.00	4.996	2756	1.35 bb	35
27 050399069	GEN011 RBS04289-250 ppb, MS	Analyte		4.992	4008	1.97 bb	97
28 050399070	GEN011 RBS04289-250 ppb, MSD	Analyte		4.992	4109	2.02 bb	102
29 050399071	GEN011 RBS04289-50 ppb-1	QC	1.00	4.998	2293	1.13 bb	13
30 050399072	MeOH Blank	Analyte					
31 050399073	GEN011 RBS04289-WBlank-2	Analyte		4.997	1928	0.95 bb	-5
32 050399074	GEN011 RBS04289-SBlank-2	Analyte		4.992	2064	1.01 bb	1
33 050399075	GEN011 RBS04289-5 ppb-2	Standard	1.00	4.994	2028	1.00 bb	0
34 050399076	GEN011 RBS04289-10 ppb-2	Standard	1.00	4.995	1931	0.95 bb	-5
35 050399077	GEN011 RBS04289-25 ppb-2	Standard	1.00	4.992	2202	1.08 bb	8
36 050399078	GEN011 RBS04289-50 ppb-2	Standard	1.00	4.997	2260	1.11 bb	11
37 050399079	GEN011 RBS04289-100 ppb-2	Standard	1.00	4.983	2071	1.02 bb	2

Qualitative data, not entered

LAC 05/05/99

Calibration: C:\MASSLYNK\FACT-1.PRG\CurveDB\050399c
Last modified: Wed May 05 09:56:12 1999
Printed: Wed May 05 09:56:44 1999

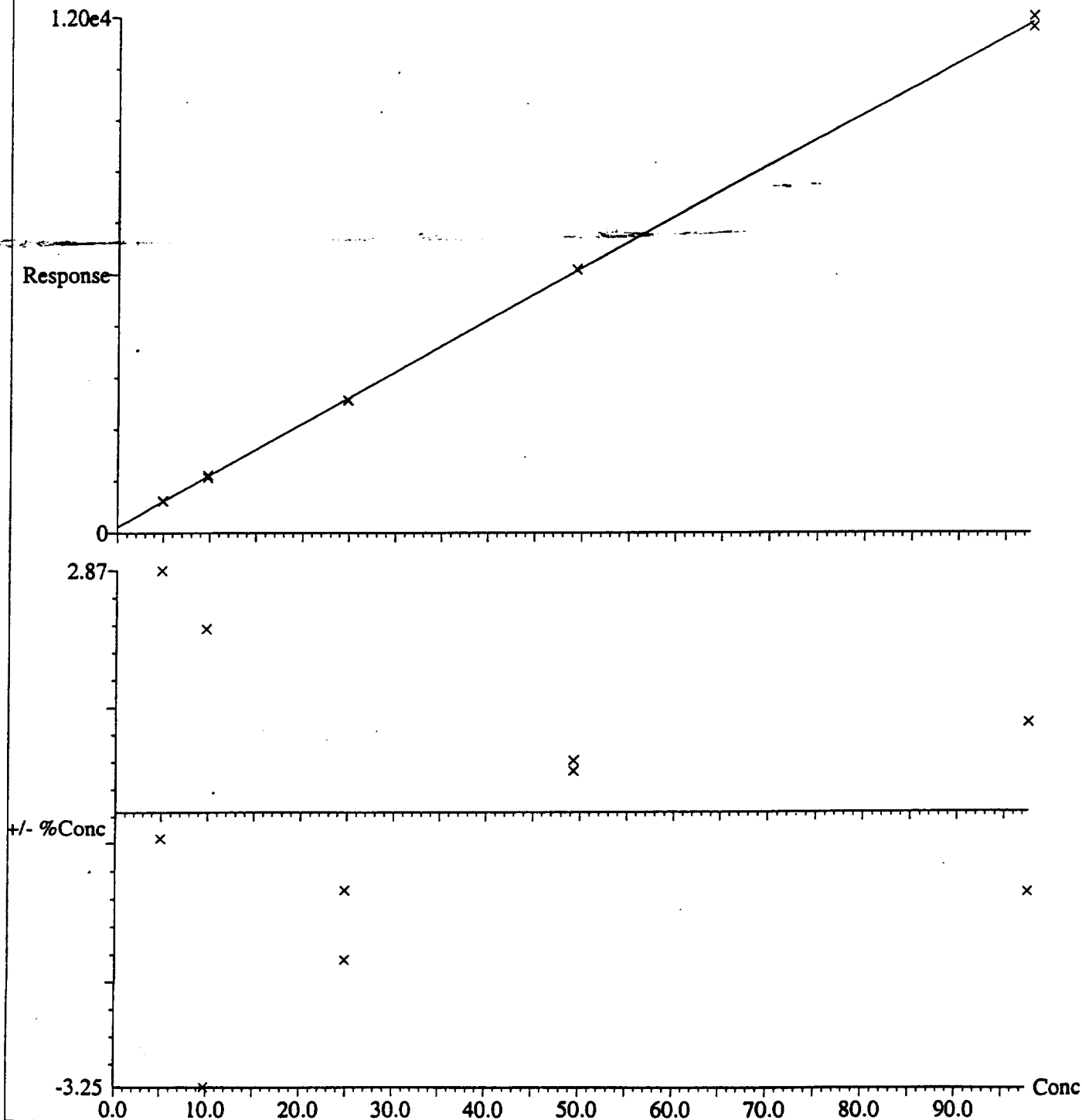
Compound 1 name: PFOSA

Coefficient of Determination: 0.999781

Calibration curve: $120.761 * x + 135.834$

Response type: External Std, Area

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Calibration: C:\MSASLTXK\FACT-1.PRO\CurveDB\050399c
Last modified: Wed May 05 09:56:12 1999
Printed: Wed May 05 09:56:44 1999

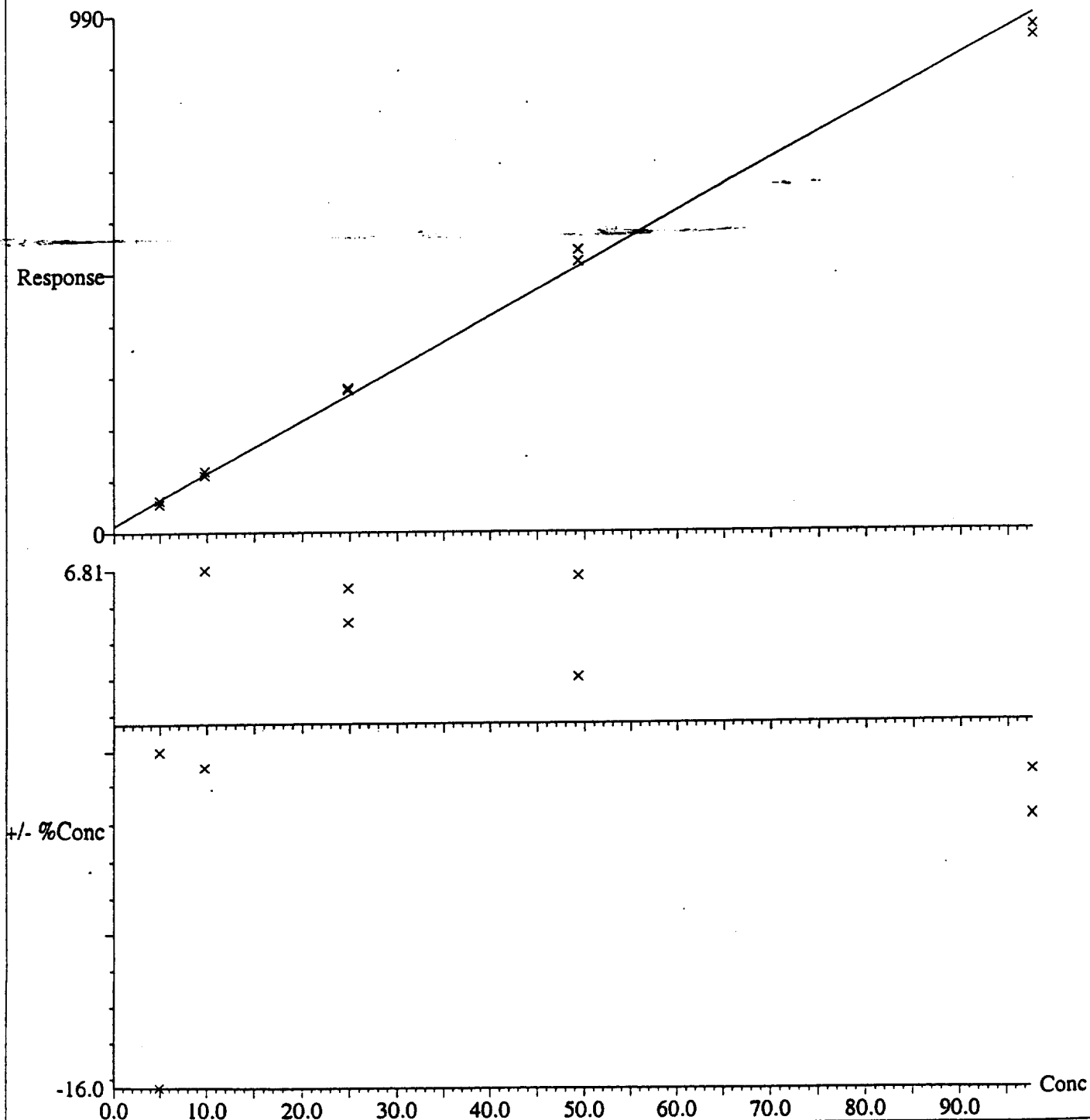
Compound 2 name: PFOSAA

Coefficient of Determination: 0.996430

Calibration curve: $10.0108 * x + 13.4359$

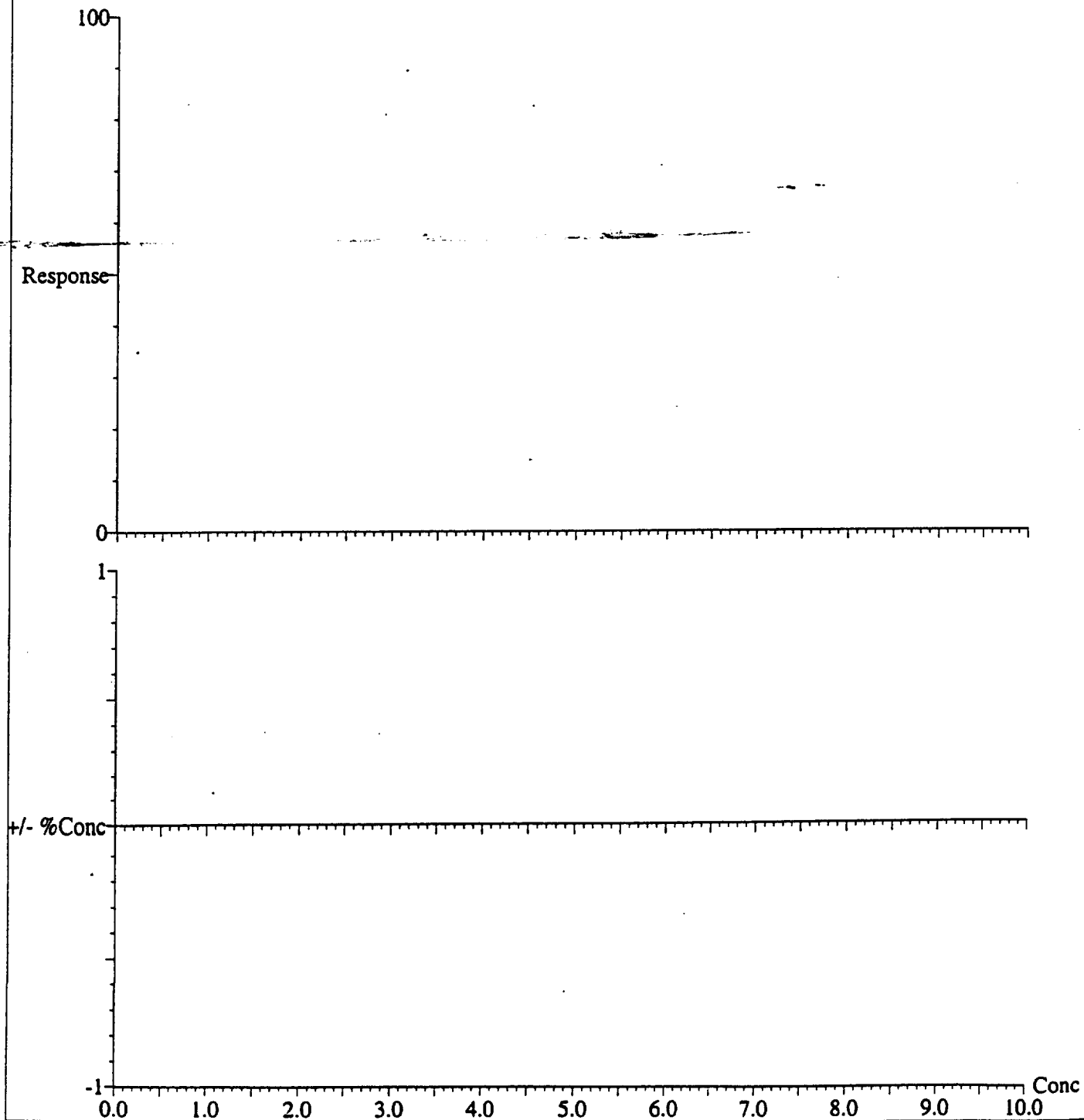
Response type: External Std, Area

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



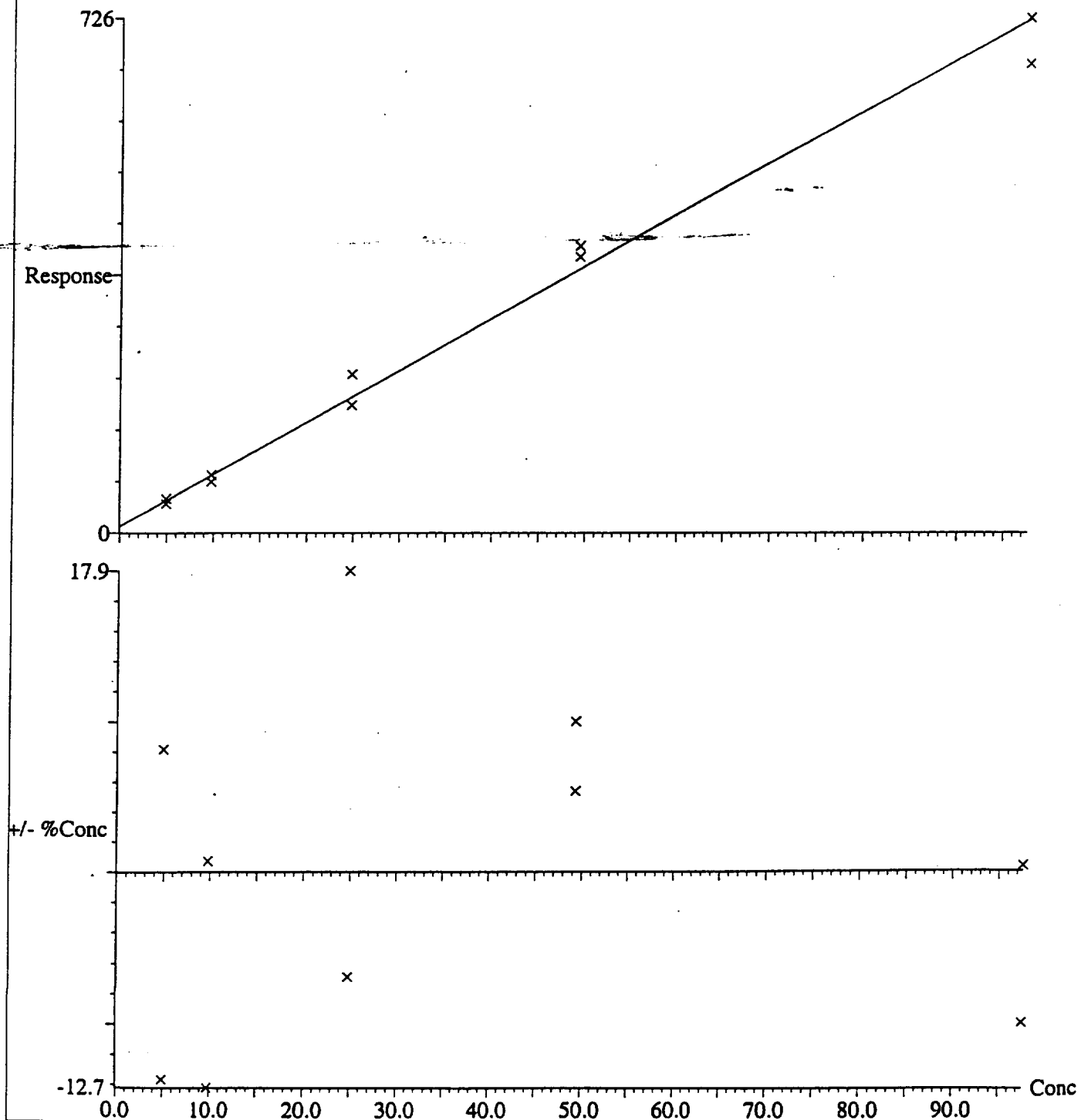
Calibration: C:\MSBL\TK\FACT-1.PRO\CurvedB\050399c
Last modified: Wed May 05 09:56:12 1999
Printed: Wed May 05 09:56:44 1999

Compound 3 name: M570
Coefficient of Determination: 0.000000
Calibration curve: $0 * x + 0$
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



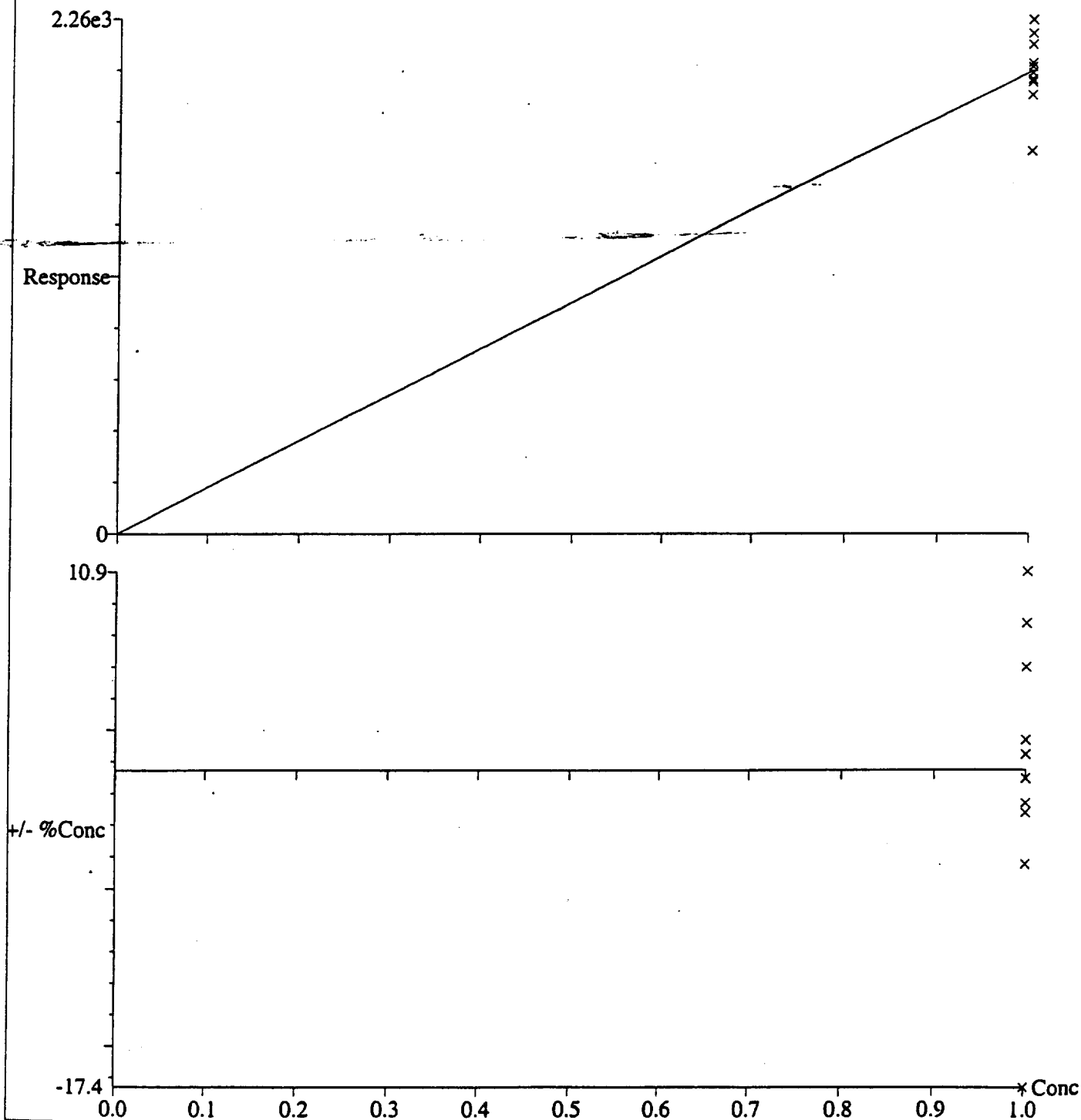
Calibration: C:\MASSLYTK\FACT-1.PRO\CurveDB\050399c
Last modified: Wed May 05 09:56:12 1999
Printed: Wed May 05 09:56:44 1999

Compound 4 name: M556
Coefficient of Determination: 0.988614
Calibration curve: $7.32086 * x + 9.47847$
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Calibration: C:\MSBLYNK\FACT-1.PRO\CurveDB\050399c
Last modified: Wed May 05 09:56:12 1999
Printed: Wed May 05 09:56:44 1999

Compound 5 name: surr
Response Factor: 2036.99
Response type: External Std, Area
Curve type: RF



Method Report

Page 1

Method file: C:\MASSLYNK\FACT-1.PRO\MethDB\050399c.mdb
Last modified: Wed May 05 09:55:55 1999

Compound: 1: PFOA

Printed: Wed May 05 10:02:08 1999

Soup 020199 LAC 05/05/99

Compound Name: PFOA
Internal Ref.: (None)
Quantify Trace: TIC
Conc. of Standards: Conc. A
User RF Value: 1.000000, Disabled
User Peak Factor: 1.000000
Integrate Window Factor: 2.000

Retention Time (mins): 6.065, Enabled
Relative Retention Time: 0.000, Disabled
Time Window (mins): 0.298

Peak Selection: Nearest

Response Type: External
Response: Areas

Polynomial Type: Linear
Point of Origin: Exclude
Fit Weighting: 1/X
Axis Transformation: None

Units:

Peak-to-peak amplitude: 230

Smoothering: Disabled
Window size (scans): 3
Number of smooths: 2
Smoothering method:

Join valley threshold: 20.00
Reduce peak tailing: 100.00
Raise baseline maximum: 0.00

Draw vertical threshold: 10.00
Detect shoulders: Disabled
Shoulder threshold: 40.00

Relative height: 1.50, Disabled
Absolute height: 0.00, Disabled
Relative area: 2.00, Disabled
Absolute area: 80.00, Enabled

05/05/99
JH

Method Report

Page 2

Method file: C:\MASSLYNK\FACT-1.PRO\MethDB\050399c.mdb
 Last modified: Wed May 05 09:55:55 1999

Compound: 2: PFOSAA

Printed: Wed May 05 10:02:08 1999

Sup 020199 LAC 05/05/99

Compound Name: PFOSAA
 Internal Ref.: [None]
 Quantify Trace: TIC
 Conc. of Standards: Conc. A

User RF Value: 1.000000, Disabled
 User Peak Factor: 1.000000
 Integrate Window Factor: 2.000

Retention Time (mins): 5.650, Enabled
 Relative Retention Time: 0.000, Disabled
 Time Window (mins): 0.424

Peak Selection: Nearest

Response Type: External
 Response: Areas

Polynomial Type: Linear
 Point of Origin: Exclude
 Fit Weighting: 1/X
 Axis Transformation: None

Units:

Peak-to-peak amplitude: 114

Smoothing: Disabled
 Window size (scans): 3
 Number of smooths: 2
 Smoothing method:

Join valley threshold: 20.00
 Reduce peak tailing: 100.00
 Raise baseline maximum: 0.00

Draw vertical threshold: 10.00
 Detect shoulders: Disabled
 Shoulder threshold: 40.00

Relative height: 1.50, Disabled
 Absolute height: 0.00, Disabled
 Relative area: 2.00, Disabled
 Absolute area: 80.00, Enabled

*1084
 05/05/99*

Method Report

Page 5

Method file: C:\MASSLYNX\FACT-1.PRO\MethDB\050399c.mdb
Last modified: Wed May 05 09:55:55 1999

Compound: 5: surr

Printed: Wed May 05 10:02:09 1999

Surr 020199 LAC 05/05/99

Compound Name: surr
Internal Ref.: [None]
Quantify Trace: TIC
Conc. of Standards: Fixed

User RF Value: 1.000000, Disabled
User Peak Factor: 1.000000
Integrate Window Factor: 2.000

Retention Time (mins): 4.913, Enabled
Relative Retention Time: 0.000, Disabled
Time Window (mins): 0.637

Peak Selection: Nearest

Response Type: External
Response: Area

Polynomial Type: Linear
Point of Origin: Exclude
Fit Weighting: 1/X
Axis Transformation: None

Units:

Peak-to-peak amplitude: 114

Smoothing: Disabled
Window size (scans): 3
Number of Smoother: 2
Smoothing method:

Join valley threshold: 20.00
Reduce peak tailing: 100.00
Raise baseline maximum: 0.00

Draw vertical threshold: 10.00
Detect shoulders: Disabled
Shoulder threshold: 40.00

Relative height: 1.50, Disabled
Absolute height: 0.00, Disabled
Relative area: 2.00, Disabled
Absolute area: 80.00, Enabled

*0.14
05/05/99*

3M ENVIRONMENTAL LABORATORY

Note to File

3M ET&SS Laboratory Study No. GEN011

Associated Study Number:

POAA > detected @ low levels in all samples. Peak areas $\geq 2 \times$ noise
M463 est. detection limit $\sim 4 \text{ ppb}$

NO M513, M563, M613 detected.

These samples are not scale-ups & cannot be compared to previous survey work.

PFOSAA detected in some samples est. detection limit $\sim 8 \text{ ppb}$

PFOSA not detected, estimated detection limit $\sim 8 \text{ ppb}$

M570 preliminarily detected, est. detection limit $\sim 4 \text{ ppb}$

M556 detected in some samples, estimated detection limits $\sim 8 \text{ ppb}$

Recorded By:

kip

Date

5/21/99

Sample List: S:\FACT-1.PRO\SampleDB\050399b
 Last modified: Mon May 03 16:01:10 1999
 Method: S:\FACT-1.PRO\MethodDB\050399b
 Last modified: Tue May 04 11:06:51 1999
 Job Code:

Printed: Fri May 21 11:54:44 1999

Compound 1: POAA

#	Name	Samplelist Text	Type	Std Conc	RT	Area	Response	Conc.	Flags	%Dev
1	050399006	MeOH Blank	Analyte		5.112	29	29.033	0.00	MM	
2	050399007	MeOH Blank	Analyte		5.102	22	22.095	0.00	MM	
3	050399008	GEN011 RBS04289-WBlank-1	Analyte		5.023	34	33.979	0.00	MM	
4	050399009	GEN011 RBS04289-SBlank-1	Analyte		5.074	38	38.037	0.00	MM	
5	050399010	GEN011 RBS04289-5 ppb-1	Standard	4.93	5.030	61	60.565	30.62	MM	521
6	050399011	GEN011 RBS04289-10 ppb-1	Standard	9.76	5.039	50	50.106	0.00	MM	-100
7	050399012	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.016	45	44.822	0.00	MM	-100
8	050399013	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.041	68	67.951	67.77	MM	37
9	050399014	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.029	86	85.999	158.54	MM	62
10	050399015	MeOH Blank	Analyte		5.097	28	27.584	0.00	MM	
11	050399016	MeOH Blank	Analyte							
12	050399017	GEN011 RBS04289-WBlank-1	Analyte		5.046	39	39.225	0.00	MM	
13	050399018	GEN011, 9394 (0.09 mL)	Analyte		5.019	98	97.701	217.39	bb	
14	050399019	GEN011, 9395 (0.07 mL)	Analyte		5.012	100	100.182	229.87	bb	
15	050399020	GEN011, 9396 (0.08 mL)	Analyte		5.019	113	113.209	295.39	MM	
16	050399021	GEN011, 9397 (0.07 mL)	Analyte		5.019	137	137.099	415.54	bb	
17	050399022	GEN011, 9398 (0.07 mL)	Analyte		5.020	124	123.630	347.80	bb	
18	050399023	GEN011 RBS04289-50 ppb-1	QC	49.30	5.042	85	85.069	153.86	MM	212
19	050399024	MeOH Blank	Analyte							
20	050399025	GEN011 RBS04289-WBlank-1	Analyte		5.039	42	42.226	0.00	MM	
21	050399026	GEN011, 9399 (0.07 mL)	Analyte		5.043	91	90.731	182.34	bb	
22	050399027	GEN011, 9400 (0.07 mL)	Analyte		5.013	203	203.445	749.22	bb	
23	050399028	GEN011, 9401 (0.08 mL)	Analyte		5.022	127	127.121	365.36	bb	
24	050399029	GEN011, 9402 (0.08 mL)	Analyte		5.034	111	111.183	285.20	bb	
25	050399030	GEN011, 9403 (0.07 mL)	Analyte		5.013	168	167.617	569.03	bb	
26	050399031	GEN011 RBS04289-50 ppb-1	QC	49.30	5.023	85	84.935	153.19	bb	211
27	050399032	GEN011 RBS04289-250 ppb, MS	Analyte		5.017	130	129.533	377.49	bb	
28	050399033	GEN011 RBS04289-250 ppb, MSD	Analyte		5.020	101	101.407	236.03	bb	
29	050399034	GEN011 RBS04289-50 ppb-1	QC	49.30	5.043	53	53.226	0.00	MM	-100
30	050399035	MeOH Blank	Analyte		5.120	20	19.637	0.00	MM	
31	050399036	GEN011 RBS04289-WBlank-2	Analyte		5.034	30	29.864	0.00	MM	
32	050399037	GEN011 RBS04289-SBlank-2	Analyte		5.045	61	60.576	30.68	MM	
33	050399038	GEN011 RBS04289-5 ppb-2	Standard	4.93	5.050	38	37.984	0.00	MM	-100
34	050399039	GEN011 RBS04289-10 ppb-2	Standard	9.76	5.030	47	46.876	0.00	MM	-100
35	050399040	GEN011 RBS04289-25 ppb-2	Standard	24.80	5.014	49	48.660	0.00	MM	-100
36	050399041	GEN011 RBS04289-50 ppb-2	Standard	49.30	5.034	56	55.542	5.36	MM	-89
37	050399042	GEN011 RBS04289-100 ppb-2	Standard	97.60	5.020	86	85.844	157.76	MM	62

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Quantify Compound Summary Report
Rat Urine Method Development, SEE

Sample List: S:\FACT-1.PRO\SampleDB\050399b
Last modified: Mon May 03 16:01:10 1999
Method: S:\FACT-1.PRO\MethodDB\050399b
Last modified: Tue May 04 11:06:51 1999
Job Code:

Printed: Fri May 21 11:54:44 1999

Compound 2: M463

# Name	Samplelist Text	Type	Std Conc	RT	Area	Response	Conc. Flags	tDev
1 050399006	MeOH Blank	Analyte						
2 050399007	MeOH Blank	Analyte						
3 050399008	GEN011 RBS04289-WBlank-1	Analyte						
4 050399009	GEN011 RBS04289-SBlank-1	Analyte						
5 050399010	GEN011 RBS04289-5 ppb-1	Standard	4.93					
6 050399011	GEN011 RBS04289-10 ppb-1	Standard	9.76					
7 050399012	GEN011 RBS04289-25 ppb-1	Standard	24.80					
8 050399013	GEN011 RBS04289-50 ppb-1	Standard	49.30					
9 050399014	GEN011 RBS04289-100 ppb-1	Standard	97.60					
10 050399015	MeOH Blank	Analyte						
11 050399016	MeOH Blank	Analyte						
12 050399017	GEN011 RBS04289-WBlank-1	Analyte						
13 050399018	GEN011, 9394 (0.09 mL)	Analyte		5.259	21	20.984	MMI	
14 050399019	GEN011, 9395 (0.07 mL)	Analyte		5.279	20	20.379	MMI	
15 050399020	GEN011, 9396 (0.08 mL)	Analyte		5.285	22	22.269	MMI	
16 050399021	GEN011, 9397 (0.07 mL)	Analyte		5.259	34	34.007	MMI	
17 050399022	GEN011, 9398 (0.07 mL)	Analyte		5.289	48	48.086	MMI	
18 050399023	GEN011 RBS04289-50 ppb-1	QC	49.30					
19 050399024	MeOH Blank	Analyte						
20 050399025	GEN011 RBS04289-WBlank-1	Analyte						
21 050399026	GEN011, 9399 (0.07 mL)	Analyte		5.310	20	20.260	MMI	
22 050399027	GEN011, 9400 (0.07 mL)	Analyte		5.280	18	17.684	MMI	
23 050399028	GEN011, 9401 (0.08 mL)	Analyte		5.291	20	20.376	MMI	
24 050399029	GEN011, 9402 (0.08 mL)	Analyte		5.275	47	47.425	MMI	
25 050399030	GEN011, 9403 (0.07 mL)	Analyte		5.254	47	47.000	MMI	
26 050399031	GEN011 RBS04289-50 ppb-1	QC	49.30					
27 050399032	GEN011 RBS04289-250 ppb, MS	Analyte		5.256	17	17.200	MMI	
28 050399033	GEN011 RBS04289-250 ppb, MSD	Analyte		5.287	17	16.612	MMI	
29 050399034	GEN011 RBS04289-50 ppb-1	QC	49.30					
30 050399035	MeOH Blank	Analyte						
31 050399036	GEN011 RBS04289-WBlank-2	Analyte						
32 050399037	GEN011 RBS04289-SBlank-2	Analyte						
33 050399038	GEN011 RBS04289-5 ppb-2	Standard	4.93					
34 050399039	GEN011 RBS04289-10 ppb-2	Standard	9.76					
35 050399040	GEN011 RBS04289-25 ppb-2	Standard	24.80					
36 050399041	GEN011 RBS04289-50 ppb-2	Standard	49.30					
37 050399042	GEN011 RBS04289-100 ppb-2	Standard	97.60					

Sample List: S:\FACT-1.PRO\SampleDB\050399b
Last modified: Mon May 03 16:01:10 1999
Method: S:\FACT-1.PRO\MethodB\050399b
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Compound 3: M513

# Name	Samplelist Text	Type	Std Conc	RT	Area	Response	Conc. Flags tDev
1 050399006	MeOH Blank	Analyte					
2 050399007	MeOH Blank	Analyte					
3 050399008	GEN011 RBS04289-WBlank-1	Analyte					
4 050399009	GEN011 RBS04289-SBlank-1	Analyte					
5 050399010	GEN011 RBS04289-5 ppb-1	Standard	4.93				
6 050399011	GEN011 RBS04289-10 ppb-1	Standard	9.76				
7 050399012	GEN011 RBS04289-25 ppb-1	Standard	24.80				
8 050399013	GEN011 RBS04289-50 ppb-1	Standard	49.30				
9 050399014	GEN011 RBS04289-100 ppb-1	Standard	97.60				
10 050399015	MeOH Blank	Analyte					
11 050399016	MeOH Blank	Analyte					
12 050399017	GEN011 RBS04289-WBlank-1	Analyte					
13 050399018	GEN011, 9394 (0.09 mL)	Analyte					
14 050399019	GEN011, 9395 (0.07 mL)	Analyte					
15 050399020	GEN011, 9396 (0.08 mL)	Analyte					
16 050399021	GEN011, 9397 (0.07 mL)	Analyte					
17 050399022	GEN011, 9398 (0.07 mL)	Analyte					
18 050399023	GEN011 RBS04289-50 ppb-1	QC	49.30				
19 050399024	MeOH Blank	Analyte					
20 050399025	GEN011 RBS04289-WBlank-1	Analyte					
21 050399026	GEN011, 9399 (0.07 mL)	Analyte					
22 050399027	GEN011, 9400 (0.07 mL)	Analyte					
23 050399028	GEN011, 9401 (0.08 mL)	Analyte					
24 050399029	GEN011, 9402 (0.08 mL)	Analyte					
25 050399030	GEN011, 9403 (0.07 mL)	Analyte					
26 050399031	GEN011 RBS04289-50 ppb-1	QC	49.30				
27 050399032	GEN011 RBS04289-250 ppb, MS	Analyte					
28 050399033	GEN011 RBS04289-250 ppb, MSD	Analyte					
29 050399034	GEN011 RBS04289-50 ppb-1	QC	49.30				
30 050399035	MeOH Blank	Analyte					
31 050399036	GEN011 RBS04289-WBlank-2	Analyte					
32 050399037	GEN011 RBS04289-SBlank-2	Analyte					
33 050399038	GEN011 RBS04289-5 ppb-2	Standard	4.93				
34 050399039	GEN011 RBS04289-10 ppb-2	Standard	9.76				
35 050399040	GEN011 RBS04289-25 ppb-2	Standard	24.80				
36 050399041	GEN011 RBS04289-50 ppb-2	Standard	49.30				
37 050399042	GEN011 RBS04289-100 ppb-2	Standard	97.60				

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Sample List: S:\FACT-1.PRO\SampleDB\050399b
Last modified: Mon May 03 16:01:10 1999
Method: S:\FACT-1.PRO\MethodB\050399b
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Job Code:

Printed: Fri May 21 11:54:44 1999

Compound 4: surf

#	Name	Samplelist Text	Type	Std Conc	RT	Area	Response	Conc. Flags	tDev
1	050399006	MeOH Blank	Analyte						
2	050399007	MeOH Blank	Analyte						
3	050399008	GEN011 RBS04289-WBlank-1	Analyte		5.016	1624	1624.026	0.81 bb	-19
4	050399009	GEN011 RBS04289-SBlank-1	Analyte		5.008	1839	1839.452	0.91 bb	-9
5	050399010	GEN011 RBS04289-5 ppb-1	Standard	1.00	5.022	1769	1769.446	0.88 bb	-12
6	050399011	GEN011 RBS04289-10 ppb-1	Standard	1.00	5.002	1875	1875.130	0.93 bb	-7
7	050399012	GEN011 RBS04289-25 ppb-1	Standard	1.00	5.009	1791	1790.798	0.89 bb	-11
8	050399013	GEN011 RBS04289-50 ppb-1	Standard	1.00	5.005	1535	1535.177	0.76 bb	-24
9	050399014	GEN011 RBS04289-100 ppb-1	Standard	1.00	5.022	1891	1890.829	0.94 bb	-6
10	050399015	MeOH Blank	Analyte						
11	050399016	MeOH Blank	Analyte						
12	050399017	GEN011 RBS04289-WBlank-1	Analyte		5.010	1893	1893.356	0.94 bb	-6
13	050399018	GEN011, 9394 (0.09 mL)	Analyte		5.012	3937	3937.170	1.96 bb	96
14	050399019	GEN011, 9395 (0.07 mL)	Analyte		5.004	4584	4583.925	2.28 bb	128
15	050399020	GEN011, 9396 (0.08 mL)	Analyte		5.012	4072	4072.485	2.03 bb	103
16	050399021	GEN011, 9397 (0.07 mL)	Analyte		5.012	4269	4268.604	2.12 bb	112
17	050399022	GEN011, 9398 (0.07 mL)	Analyte		5.012	3633	3633.260	1.81 bb	81
18	050399023	GEN011 RBS04289-50 ppb-1	QC	1.00	5.006	1782	1781.550	0.89 bb	-11
19	050399024	MeOH Blank	Analyte						
20	050399025	GEN011 RBS04289-WBlank-1	Analyte		5.032	2179	2178.890	1.08 bb	8
21	050399026	GEN011, 9399 (0.07 mL)	Analyte		5.007	4258	4257.804	2.12 bb	112
22	050399027	GEN011, 9400 (0.07 mL)	Analyte		5.006	4844	4843.863	2.41 bb	141
23	050399028	GEN011, 9401 (0.08 mL)	Analyte		5.015	5032	5032.083	2.50 bb	150
24	050399029	GEN011, 9402 (0.08 mL)	Analyte		4.998	4395	4394.549	2.19 bb	119
25	050399030	GEN011, 9403 (0.07 mL)	Analyte		5.006	7774	7774.321	3.87 bb	287
26	050399031	GEN011 RBS04289-50 ppb-1	QC	1.00	5.016	1979	1978.790	0.98 bb	-2
27	050399032	GEN011 RBS04289-250 ppb, MS	Analyte		5.010	4326	4326.159	2.15 bb	115
28	050399033	GEN011 RBS04289-250 ppb, MSD	Analyte		5.013	3993	3993.073	1.99 bb	99
29	050399034	GEN011 RBS04289-50 ppb-1	QC	1.00	5.007	2442	2442.139	1.21 bb	21
30	050399035	MeOH Blank	Analyte						
31	050399036	GEN011 RBS04289-WBlank-2	Analyte		5.026	1896	1896.270	0.94 bb	-6
32	050399037	GEN011 RBS04289-SBlank-2	Analyte		5.008	2227	2226.930	1.11 bb	11
33	050399038	GEN011 RBS04289-5 ppb-2	Standard	1.00	5.014	2203	2202.940	1.10 bb	10
34	050399039	GEN011 RBS04289-10 ppb-2	Standard	1.00	5.023	2162	2161.525	1.07 bb	7
35	050399040	GEN011 RBS04289-25 ppb-2	Standard	1.00	5.006	2241	2241.125	1.11 bb	11
36	050399041	GEN011 RBS04289-50 ppb-2	Standard	1.00	5.027	2449	2448.654	1.22 bb	22
37	050399042	GEN011 RBS04289-100 ppb-2	Standard	1.00	5.013	2194	2194.037	1.09 bb	9

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Sample List: S:\FACT-1.PRO\SampleDB\050399c
Last modified: Mon May 03 16:43:03 1999
Method: S:\FACT-1.PRO\MethodDB\050399c
Last modified: Fri May 21 12:01:54 1999
Job Code:

Printed: Fri May 21 12:04:05 1999

Compound 2: PFOSAA

# Name	Samplelist Text	Type	Std Conc	RT	Area	Response	Conc. Flags	tDev
1 050399043	MeOH Blank	Analyte						
2 050399044	MeOH Blank	Analyte						
3 050399045	GEN011 RBS04289-WBlank-1	Analyte						
4 050399046	GEN011 RBS04289-SBlank-1	Analyte						
5 050399047	GEN011 RBS04289-5 ppb-1	Standard	4.93	5.649	55	54.872	4.14 MM	-16
6 050399048	GEN011 RBS04289-10 ppb-1	Standard	9.76	5.688	118	117.791	10.42 bb	7
7 050399049	GEN011 RBS04289-25 ppb-1	Standard	24.80	5.690	277	276.567	26.28 bb	6
8 050399050	GEN011 RBS04289-50 ppb-1	Standard	49.30	5.647	517	516.974	50.30 bb	2
9 050399051	GEN011 RBS04289-100 ppb-1	Standard	97.60	5.691	948	948.118	93.37 bb	-4
10 050399052	MeOH Blank	Analyte						
11 050399053	MeOH Blank	Analyte						
12 050399054	GEN011 RBS04289-WBlank-1	Analyte						
13 050399055	GEN011, 9394 (0.09 mL)	Analyte		5.648	29	28.854	1.54 MM	
14 050399056	GEN011, 9395 (0.07 mL)	Analyte		5.687	33	32.863	1.94 MM	
15 050399057	GEN011, 9396 (0.08 mL)	Analyte		5.650	29	29.018	1.56 MM	
16 050399058	GEN011, 9397 (0.07 mL)	Analyte						
17 050399059	GEN011, 9398 (0.07 mL)	Analyte						
18 050399060	GEN011 RBS04289-50 ppb-1	QC	49.30	5.688	515	515.321	50.13 bb	2
19 050399061	MeOH Blank	Analyte						
20 050399062	GEN011 RBS04289-WBlank-1	Analyte						
21 050399063	GEN011, 9399 (0.07 mL)	Analyte						
22 050399064	GEN011, 9400 (0.07 mL)	Analyte		5.683	14	13.656	0.02 MM	
23 050399065	GEN011, 9401 (0.08 mL)	Analyte						
24 050399066	GEN011, 9402 (0.08 mL)	Analyte		5.685	16	15.892	0.25 MM	
25 050399067	GEN011, 9403 (0.07 mL)	Analyte		5.645	36	35.720	2.23 MM	
26 050399068	GEN011 RBS04289-50 ppb-1	QC	49.30	5.687	651	651.303	63.72 bb	29
27 050399069	GEN011 RBS04289-250 ppb, MS	Analyte		5.645	2217	2217.426	220.16 bb	
28 050399070	GEN011 RBS04289-250 ppb, MSD	Analyte		5.644	2102	2102.170	208.65 bb	
29 050399071	GEN011 RBS04289-50 ppb-1	QC	49.30	5.664	529	528.553	51.46 bb	4
30 050399072	MeOH Blank	Analyte		5.647	31	31.433	1.80 MM	
31 050399073	GEN011 RBS04289-WBlank-2	Analyte						
32 050399074	GEN011 RBS04289-SBlank-2	Analyte						
33 050399075	GEN011 RBS04289-5 ppb-2	Standard	4.93	5.646	62	62.184	4.87 MM	-1
34 050399076	GEN011 RBS04289-10 ppb-2	Standard	9.76	5.690	109	109.232	9.57 bb	-2
35 050399077	GEN011 RBS04289-25 ppb-2	Standard	24.80	5.645	273	272.800	25.91 bb	4
36 050399078	GEN011 RBS04289-50 ppb-2	Standard	49.30	5.649	539	539.138	52.51 bb	7
37 050399079	GEN011 RBS04289-100 ppb-2	Standard	97.60	5.675	969	968.504	95.40 MM	-2

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