Complaint

PROJECT ID:01650015

SAMPLE ID: DK27547

DESCRIPTOR: COMPLAINT RESPONSE

HERITAGE ENVIRONMENTAL SERVICES
COMMERCIAL LABORATORY OPERATIONS

HERITAGE

7901 W. Morris Street
Indianapolis, IN 46231-3301

MITT L. DENNEY
INDIANA DEPT. OF ENV. MANAGEMENT

REPORT PACKAGE #9004

SAMPLE: ***A567128***
IDEM ID: ***DK27547***

Evelyn Matthews
Jennings Co.

Letter Out

10/07

HERITAGE ENVIRONMENTAL SERVICES, LLC

7901 West Morris Street
Indianapolis, IN 46231
Phone: 317/243-0811
Fax: 317/486-5095
Internet:http://www.heritage-enviro.com

QUALITY ASSURANCE REPORT PACKAGE # 9004
FOR
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

MITT L. DENNEY
INDIANA DEPT. OF ENV. MANAGEMENT
2525 NORTH SHADELAND AVENUE
BUILDING 30
INDIANAPOLIS, IN 46219
(317) 308-3324

SAMPLE: **A567128**

IDEM ID: **DK27547**

HERITAGE ENVIRONMENTAL SERVICES, LLC
COMMERCIAL LABORATORY OPERATIONS
7901 WEST MORRIS STREET
INDIANAPOLIS, INDIANA 46231
PHONE: (317) 243-8304
FAX: (317) 486-5095

APPROVED BY: G A Busch, QAO
PROJECT CHEMIST

RECEIVED
OCT 17 2001
IDEM-Water Mgmt
Drinking Water Branch

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Heritage Environmental Services, LLC
7901 West Morris Street
Indianapolis, IN 46231
Phone: (317) 243-0811
Fax: (317) 486-5095

CASE NARRATIVE
SHIPPING AND RECEIVING

The following sample was received at Heritage Environmental laboratory on 21-September-2001:

Sample #: A567128

IDEM #: DK27547

The sample was received within EPA recommended holding times and in good condition. If required, a pH screen confirmed that the sample was preserved to acceptable pH levels. The sample was analyzed within holding times as prescribed by the analytical method. Exceptions to these statements, additional information, and any analytical anomalies are noted on the accompanying Certificate of Analysis Report.

Nancy J. Carman
Document Control Officer

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

☐ OWM ☐ OSHWM ☐ OER ☐ OAM

CHAIN OF CUSTODY

I Certify that the sample(s) listed below was/were collected by me or in my presence. Date: ___/___/___ P.O. #: _____

Signature: James S. Harris Section: Ground Water

LAB NUMBER ASSIGNED	IDEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES											DATE AND TIME COLLECTED
		2000 ml P, N. M.	1000 ml P, N. M.	1000 ml G, N. M.	500 ml G, W. M.	250 ml G, W. M.	125 ml G, W. M.	40 ml VIAL	120 ml P,(B. O.)	500 ml P, N. M.	250 ml P, N. M.		
A567128	DK22547		3	1				2					9/20/01 11:00 AM/PM
													/ / : AM/PM
													/ / : AM/PM
A567129	QA/QC												/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM

P-Plastic G-Glass N.M.-Narrow Mouth W.M.-Wide Mouth B. O.- Bacti. Only

CARRIERS Should samples be iced? Y N

I certify that I received the above sample(s)

SIGNATURE	DATE AND TIME	SEALS INTACT		COMMENTS
RELINQUISHED BY: James Harris	9/21/01	Y	N	Rot SK 3.3 OSI
RECEIVED BY: S. KINNAMAN	11:45 AM/PM			
RELINQUISHED BY:	/ /	Y	N	
RECEIVED BY:	: AM/PM			
RELINQUISHED BY:	/ /	Y	N	
RECEIVED BY:	: AM/PM			
RELINQUISHED BY:	/ /	Y	N	
RECEIVED BY:	: AM/PM			
RELINQUISHED BY:	/ /	Y	N	
RECEIVED BY:	: AM/PM			

Lab Custodian

I certify that I received the above sample(s) and is/are recorded in the official record book. The same samples will be in custody of competent laboratory personnel at all time [illegible] locked in a secure area.

Signature: S. KINNAMAN Date: 21 SEPT 01 Time: 11:50 AM/PM

Lab: HERITAGE Address: IND 4

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER/GROUND WATER SECTION
BAA 97-044 SAMPLE TASK SHEET

Site ID: 0165 0015 IDEM Sample #'s: DK 27547 to DK _____ Project Date: 9/18/07

Sampler: John Conner Assigned Lab: EHL: [ ] HLI: [X]

TASK 1 - METALS

DW Stds		Geochem		Other		Other	
Antimony	✓	Barium	✓	Aluminum			
Arsenic	✓	Calcium	✓	Boron			
Beryllium	✓	Iron	✓	Cobalt			
Cadmium	✓	Magnesium	✓	Manganese			
Chromium	✓	Potassium	✓	Selenium			
Copper	✓	Sodium	✓	Silver			
Lead	✓			Titanium			
Mercury	✓			Thallium			
Nickle	✓			Zinc			

TASK 2 - INORGANICS, MICROBIOLOGIC, NUTRIENTS & ORGANICS

Alkalinity	✓	Total Coliforms,		Phosphorous (Applicable to /All Froms)	
BOD5		Cyanide, Total		Solids, Filterable Residue (TDS)	
BOD, Ultimate		Cyanide, Amenable		Solids, Non-Filterable Residue (TSS)	
Bromide		Fluoride		Solids, % (Solid Waste Matrices)	
Chemical Oxygen Demand		Hardness as CaC03		Solids, Settleable Residue	
Chloride		Nitrogen, Kjeldahl (TKN)		Specific Conductanc	
Chlorine, Free & Total		Nitrogen, Nitrate		Sulfate	✓
Chlorine, Free		Nitrogen, Nitrite		Total Organic carbon (TOC)	
Chromium, Hexavalent		Nitrogen, Nitrate-Nitrite	✓	Turbidity	
Coliforms, E.coli		pH (Lab)			
Coliforms, Fecal		Phosphorous, ortho			

TASK 5 - VOLATILE ORGANICS	5A - 524.2	✓	5B - 524E	
TASK 6 - SEMIVOLATILE ORGANICS	6A - 525.2	✓	6B -525.2E	

TASK 7 - DIOXINS, PCB's & PESTICIDES

504.1 - EDB & DBCP		513 -TCDD (2,3,7,8-TCDD)		547 - Glyphosate	
505 - Organohalides & PCB's		515.1 - Chlorinated Acids - ECD		548.1 -Endothall	
507 - Nitrogen/Phosphorous NPD		531.1 - Carbamates		549.1 - Diquat/Paraquat	
508.1 - Chlorinated Acids - ECD					

SAS

APPROXIMATE CONCENTRATIONS (worst case):	10ppm ✓	100ppm	≥1000ppm	
REPORTING TIME (days):	30 ✓	14	2	

Please Send Reports to:	Hand Deliver Reports to:	COMMENTS
Mitt Denney Ground Water Section, 6633 100 N Senate Ave Indianapolis, IN 46204 (317) 308-3324 (317) 308-3339, fax	Mitt Denney Ground Water Section, 6633 2525 N Shadeland Ave Indianapolis, IN 46219 (317) 308-3324 (317) 308-3339, fax	

Revision: 08/2/1998-2

HERITAGE ENVIRONMENTAL SERVICES, LLC

7901 West Morris Street
Indianapolis, IN 46231
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Internet:http://www.heritage-enviro.com

CASE NARRATIVE
GENERAL CHEMISTRIES SECTION

SAMPLE# A567128

This sample was analyzed for the following analytes (see Table below) using normal procedures. The required hold times were met for the analyses. The method blanks were below the reporting limit. The Laboratory Fortified Blanks, and Initial and Continuing Calibration standards were within the control limits. In addition, the matrix spike and matrix spike duplicate recoveries were within the control limits.

Total Alkalinity	EPA 310.1
Nitrate-Nitrite, Nitrogen	EPA 353.2

Barbara A. Shrake
BARBARA A. SHRAKE
LABORATORY SUPERVISOR
10/8/01

Recycled Paper

QC ACCEPTANCE LIMITS

ANALYSIS	ICV	CCV	LFB	LCS	MS/MSD %	MS/MSD RPD	DUP RPD
Alkalinity		80-120%	80-120%				≤ 20%
Nitrate-Nitrite	90-110%	90-110%			80-120%	≤ 20%	≤ 20%

Recycled Paper

Run Number: R420345
Benchsheet Number: 2952-2953
Test: G605.2
Analyst: JLR1537
Date Analyzed: 9-28-01
Instrument / Test: #209 / ALKALINITY

Reagent Lot #
Exp. Date

BLA____ Obs. Value

CAL01	Known Conc.					
	Response					
	Obs. Conc.					
	% Recovery					

CAL01	Known Conc.					
	Response					
	Obs. Conc.					
	% Recovery					

Correlation = _____ Slope = _____ Intercept = _____

DUP01	DUP Sample	A567128	A567175			
	Rep1 Conc.	310	260			
	Rep2 Conc.	320	260			
	RPD	3.2	0.0			

SPI____	SPI Sample					
	Spike Conc.					
	Sample Conc.					
	Total Conc.					
	% Recovery					

CCV	Std ID	X914	X914			
	Obs Value	120	120			
	True Value	125	125			
	% Recovery	96.0	96.0			

LFB01	Std ID	X953				
	Obs Value	27				
	True Value	26.9				
	% Recovery	100.4				

Page 1 of 2

Reference No. G605.2, G610.2, G611.2

ALKALINITY

Analyst JLR1537

Reviewer KLF2661
Date 9/29/01

Recorder KLF2661
Date 9/29/01

Start Date 9-28-01 Start Time 11:30 End Date 9-28-01 End Time 17:30

QAQC TYPE	SAMPLE	TEST CODE	TV	RESULT	%REC RPD	DL	UNITS	COMMENTS
LFB01 ✓	X953	ALL	26.9	27	100.4%	1.0	mg/L	
	A567128 ✓	G605.2		310				DK27547
DUP01 ✓	A567128			320	R=3.2			DK27547
	A567169 ✓			400		10		mw-4
	A567170 ✓			370				mw-205
	A567171 ✓			320				mw-204
	A567172 ✓			690				mw-205R
	A567173 ✓			220				mw-7
	A567174 ✓			270				mw-203
	A567175 ✓			260				mw-6
DUP01 ✓	A567175			260	R=0.0			mw-6
CCV ✓	X914	ALL	125	120	96.0%	9-29-01		
	A567176 ✓	G605.2		420		10		DUP@ mw 3R
	A567177 ✓			430				mw-3R
	A567180 ✓			BDL				FB
REP1	A567183 ✓			340		2.0		mw-10

Page 2 of 2

Reference No. G605.2, G610.2, G611.2 _____

ALKALINITY

Analyst JLR1537

Reviewer KLF2661

Date 9/29/01

Recorder _____

Date _____

Start Date 9-28-01 Start Time 11:30 End Date 9-28-01 End Time 17:30

QAQC TYPE	SAMPLE	TEST CODE	TV	RESULT	%REC RPD	DL	UNITS	COMMENTS
REP 1	A567184 ✓	6605.2		430		~~2.0~~ 2.0	mg/L	MW-3U
	A567185 ✓			350				MW-5R
	A567186 ✓			390				MW-6R
	A567187 ✓			450				MW-7R
	A567188 ✓			390				MW-8R
	A567189 ✓			360				MW-9U
CCV ✓	X914	ALL	125	120	96.0%			

11:30 - 17:30

Page 1 of	Analyst	Date	ALKALINITY

TOTAL = G605.2 BICARBONATE = G610.2 CARBONATE = G611.2

Sample	X953	A567128	A567128	A567169	A567170	A567171	A567172	A567173	A567174
Test Code	ALL	G605.2	G605.2	G605.2	G605.2	G605.2	G605.2	G605.2	G605.2
QAQC	LFBØ1	DK27547	DUPØ1	mw-4	mw-205	mw-204	mw-205R	mw-7	mw-203
$Buret_{FINAL}$	38.6	3.1	6.3	10.3	14.0	17.2	24.1	26.3	29.0
$Buret_{INITIAL}$	35.9	0.0	3.1	6.3	10.3	14.0	17.2	24.1	26.3
Vol Titrant	2.7	3.1	3.2	4.0	3.7	3.2	6.9	2.2	2.7
$pH_{INITIAL}$	8.19	7.98	8.08	8.24	8.15	8.16	8.29	8.69	8.36
pH_{FINAL}	4.50	4.50	4.50	4.50	4.50	4.47	4.50	4.50	4.50
Vol Sample	100	50	50	50	50	50	50	50	50
Normality	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Result	27	310	320	400	320	320	690	220	270

TV=26.9(100 mL) R=3.2

Sample	A567175	A567176	X914	A567176	A567177	A567180	A567183	A567184	A567185
Test Code	G605.2	G605.2	ALL	G605.2	G605.2	~~A567~~ G605.2	G605.2	G605.2	G605.2
QAQC	mw-6	DUPØ1	CCV	DUP@mw-3R	mw 3R	SB	mw-10	mw-24	mw-5R
$Buret_{FINAL}$	31.6	34.2	35.4	39.6	43.9	39.1	47.3	19.2	22.7
$Buret_{INITIAL}$	29.0	31.6	34.2	35.4	39.6	39.0	~~8~~ 43.9	~~47.3~~ 14.9	19.2
Vol Titrant	2.6	2.6	1.2	4.2	4.3	0.1	3.4	4.3	3.5
$pH_{INITIAL}$	8.33	8.50	10.37	8.15	8.02	5.73	8.25	7.66	7.19
pH_{FINAL}	4.52	4.50	4.43	4.50	4.50	4.52	4.50	4.50	4.50
Vol Sample	50	50	50	50	50	~~50~~ 100	50	50	50
Normality	0.1	0.1	0.1	0.1	0.1	~~0.1~~ 0.02	0.1	0.1	0.1
Result	260	260	120	420	430	BDL	340	430	350

R=0.0 TV=12.5(96.0)

$$ALKALINITY\ mg/L = \frac{(mL\ H_2SO_4) \times (N\ H_2SO_4) \times 50{,}000}{mL\ Sample}$$

4

Page 2 of		Analyst		Date		ALKALINITY		
TOTAL = G605.2 BICARBONATE = G610.2 CARBONATE = G611.2								
Sample	A567186	A567187	A567188	A567189	X914			
Test Code	G605.2	G605.2	G605.2	G605.9	ALL			
QAQC	MW-6R	MW-7R	MW-8R	MW-9U	CCV			
$Buret_{FINAL}$	26.6	31.1	35.0	38.6	39.8			
$Buret_{INITIAL}$	22.7	26.6	31.1	35.0	38.6			
Vol Titrant	3.9	4.5	3.9	3.6	1.2			
$pH_{INITIAL}$	7.97	8.31	7.65	6.93	10.27			
pH_{FINAL}	4.54	4.50	4.48	4.50	4.43			
Vol Sample	50	50	50	50	50			
Normality	0.1	0.1	0.1	0.1	0.1			
Result	390	450	390	360	120			
TV=125								
Sample								
Test Code								
QAQC								
$Buret_{FINAL}$								
$Buret_{INITIAL}$								
Vol Titrant								
$pH_{INITIAL}$								
pH_{FINAL}								
Vol Sample								
Normality								
Result								

$$ALKALINITY\ mg/L = \frac{(mL\ H_2SO_4) \times (N\ H_2SO_4) \times 50{,}000}{mL\ Sample}$$

pH CALIBRATION AND TITRANT STANDARDIZATION

Analyst JLR1537

Date 9-28-01

Analysis ALKALINITY

pH Calibration

pH = 4.00	Lot# 1044-03	Resp 4.01
pH = 7.00	Lot# 1038-16	Resp 7.00
pH = 10.0	Lot# _____	Resp _____

pH Verification

pH = 4.00	Lot# 007373-24	Resp 3.98
pH = 7.00	Lot# 0620-10249	Resp 6.99

Standard _____ _____ g/L

	1.00 N			0.10 N			0.02 N		
Vol Std, ml									
$Buret_{FINAL}$									
$Buret_{INITIAL}$									
Vol Titrant, ml									
$pH_{INITIAL}$									
pH_{FINAL}									
Normality									
	Avg. N = _____			Avg. N = _____			Avg. N = _____		

$$Normality\ NaOH = \frac{(KHP\ g/L)\ x\ (mL\ KHP\ STD)}{204.2\ x\ (mL\ NaOH)}$$

$$Normlity\ H_2SO_4 = \frac{(Na_2CO_3\ g/L)\ x\ (mL\ Na_2CO_3\ STD)}{53.00\ x\ (mL\ H_2SO_4)}$$

File Number : 01092604

Nitrate/Nitrate

Run Number :

Instrument # : 323

Analyst : MAA4317

Reviewed By : BAS # 1108
Date : 9/28/01

Recorded By :
Date :

Start Date : 26-Sep-2001 Start Time 16:48 End Date 26-Sep-2001 End Time 20:00

QC Standard ID#	Nitrite	Nitrate	Total
ICV01	891	881	881
CDL01	876	790	790
SPI01	876	790	790
DPS01	876	790	790
CCV	876	790	790

CAL01 See Attached Calibration Report

BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.003059 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	0.00202 mg/L	Nitrate+Nitrite	0.002415 mg/L
BLA OBS Value	Nitrite	-0.000294 mg/L	Nitrate+Nitrite	0.00371 mg/L

		Observed Conc	Sample/True Value	Spike Conc	%Recovery	RPD
ICV01	Nitrite	0.278	0.286		97.2	
ICV01	Nitrite+Nitrate	0.824	0.788		104.6	
	Nitrate	0.821	0.788		104.2	
CDL01	Nitrite+Nitrate	0.053	0.05		106.0	
	Nitrite	0.027	0.025		108.0	
	Nitrate	0.026	0.025		104.0	
SPI01	Nitrate	0.969	0	1	96.9	
SPI01	Nitrate	0.147	0.054	0.1	93.0	
SPI01	Nitrite+Nitrate	0.605	0.504	0.1	101.0	
SPI01	Nitrite	0.158	0.063	0.1	95.0	
SPI01	Nitrate	0.100		0.1	100.0	
SPI01	Nitrite+Nitrate	0.977	0	1	97.7	
DPS01	Nitrate	0.964	0	1	96.4	0.5
DPS01	Nitrate	0.147	0.054	0.1	93.0	0
DPS01A	Nitrite+Nitrate	0.603	0.504	0.1	99.0	2
DPS01	Nitrite	0.158	0.063	0.1	95.0	0
DPS01	Nitrate	0.101		0.1	101.0	1
DPS01	Nitrite+Nitrate	0.981	0	1	98.1	0.4
CCV	Nitrite+Nitrate	0.198	0.2		99.0	
	Nitrite	0.0990	0.1		99.0	

File Number : 01092604 **Nitrate/Nitrate** Run Number :

	Nitrate	0.0990	0.1	99.0
CCV	Nitrite+Nitrate	0.201	0.2	100.5
	Nitrite	0.100	0.1	100.0
	Nitrate	0.101	0.1	101.0
CCV	Nitrite+Nitrate	0.202	0.2	101.0
	Nitrite	0.0980	0.1	98.0
	Nitrate	0.104	0.1	104.0
CCV	Nitrite+Nitrate	0.202	0.2	101.0
	Nitrite	0.0970	0.1	97.0
	Nitrate	0.105	0.1	105.0
CCV	Nitrite+Nitrate	0.202	0.2	101.0
	Nitrite	0.0970	0.1	97.0
	Nitrate	0.105	0.1	105.0
CCV	Nitrite+Nitrate	0.203	0.2	101.5
	Nitrite	0.0970	0.1	97.0
	Nitrate	0.106	0.1	106.0
CCV	Nitrite+Nitrate	0.202	0.2	101.0
	Nitrite	0.0960	0.1	96.0
	Nitrate	0.106	0.1	106.0
CCV	Nitrite+Nitrate	0.197	0.2	98.5
	Nitrite	0.0960	0.1	96.0
	Nitrate	0.101	0.1	101.0
CCV	Nitrite+Nitrate	0.215	0.2	107.5
	Nitrite	0.102	0.1	102.0
	Nitrate	0.113	0.1	113.0
CCV	Nitrite+Nitrate	0.209	0.2	104.5
	Nitrite	0.101	0.1	101.0
	Nitrate	0.108	0.1	108.0

TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
BLA01		26-Sep-01 16:48													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						
CDL01		26-Sep-01 16:49													
	509	Nitrite+Nitrate	1	1	0.053	0.053		0.01	mg/L		0.05	106			
	507	Nitrite	1	1	0.027	0.027		0.01	mg/L		0.025	108			
	508	Nitrate	1	1	0.026	0.026		0.01	mg/L		0.025	104			
ICV01	NO2	26-Sep-01 16:50													
	509	Nitrite+Nitrate	1	1	0.296	0.296		0.01	mg/L						
	507	Nitrite	1	1	0.278	0.278		0.01	mg/L		0.286	97.2			
	508	Nitrate	1	1	0.018	0.018		0.01	mg/L						
ICV01	NO3	26-Sep-01 16:51													
	509	Nitrite+Nitrate	1	1	0.824	0.824		0.01	mg/L		0.788	104.6			
	507	Nitrite	1	1	0.003	0.003		0.01	mg/L						
	508	Nitrate	1	1	0.821	0.821		0.01	mg/L		0.788	104.2			
	A567535 EFF	26-Sep-01 16:53													
	509	Nitrite+Nitrate	10	10	0.040			0.10	mg/L						
	507	Nitrite	10	10	0.044			0.10	mg/L						
G106.3	508	Nitrate	10	10	-0.004		BDL	0.10	mg/L						TC413
SPI01	A567535	26-Sep-01 16:54													
	509	Nitrite+Nitrate	10	10	1.009			0.10	mg/L		1				
	507	Nitrite	10	10	0.040			0.10	mg/L		1				
G	508	Nitrate	10	10	0.969	0.969		0.10	mg/L	0	1	96.9			
DPS01	A567535	26-Sep-01 16:55													
	509	Nitrite+Nitrate	10	10	1.005			0.10	mg/L		1				
	507	Nitrite	10	10	0.041			0.10	mg/L		1				
G	508	Nitrate	10	10	0.964	0.964		0.10	mg/L	0	1	96.4	0.5		
	A567557 A03U	26-Sep-01 16:57													
	509	Nitrite+Nitrate	1	1	0.012			0.01	mg/L						
	507	Nitrite	1	1	0.003			0.01	mg/L						
G106.3	508	Nitrate	1	1	0.009		BDL	0.01	mg/L						
	A567558 A15U	26-Sep-01 16:58													
	509	Nitrite+Nitrate	1	1	0.002			0.01	mg/L						
	507	Nitrite	1	1	0.004			0.01	mg/L						
G106.3	508	Nitrate	1	1	-0.002		BDL	0.01	mg/L						

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TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
	A567559 A15R	26-Sep-01 16:59													
	509	Nitrite+Nitrate	1	1	0.063			0.01	mg/L						
	507	Nitrite	1	1	0.003			0.01	mg/L						
G106.3	508	Nitrate	1	1	0.060	0.06		0.01	mg/L						
SPI01	A567559	26-Sep-01 16:59													
	509	Nitrite+Nitrate	1	1	0.150			0.01	mg/L		0.1				
	507	Nitrite	1	1	0.003			0.01	mg/L		0.1				
G	508	Nitrate	1	1	0.147	0.147		0.01	mg/L	0.054	0.1	93			
DPS01	A567559	26-Sep-01 17:00													
	509	Nitrite+Nitrate	1	1	0.151			0.01	mg/L		0.1				
	507	Nitrite	1	1	0.004			0.01	mg/L		0.1				
G	508	Nitrate	1	1	0.147	0.147		0.01	mg/L	0.054	0.1	93	0		
CCV		26-Sep-01 17:01													
	509	Nitrite+Nitrate	1	1	0.198	0.198		0.01	mg/L		0.2	99			
	507	Nitrite	1	1	0.099	0.0990		0.01	mg/L		0.1	99			
	508	Nitrate	1	1	0.099	0.0990		0.01	mg/L		0.1	99			
BLA01		26-Sep-01 17:02													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						
	A567560 A06D	26-Sep-01 17:04													
	509	Nitrite+Nitrate	1	1	0.022			0.01	mg/L						
	507	Nitrite	1	1	0.003			0.01	mg/L						
G106.3	508	Nitrate	1	1	0.019	0.02		0.01	mg/L						
CCV		26-Sep-01 17:07													
	509	Nitrite+Nitrate	1	1	0.201	0.201		0.01	mg/L		0.2	100.5			
	507	Nitrite	1	1	0.100	0.100		0.01	mg/L		0.1	100			
	508	Nitrate	1	1	0.101	0.101		0.01	mg/L		0.1	101			
BLA01		26-Sep-01 17:08													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						
	A566987	26-Sep-01 17:56													
G113.3	509	Nitrite+Nitrate	1	1	0.633	0.63		0.01	mg/L						
	507	Nitrite	1	1	0.003			0.01	mg/L						
	508	Nitrate	1	1	0.630			0.01	mg/L						

TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
	A567090 MW18C	26-Sep-01 17:57													
G113.3	509	Nitrite+Nitrate	1	1	0.002		BDL	0.05	mg/L						
	507	Nitrite	1	1	0.002			0.05	mg/L						
	508	Nitrate	1	1	0.000			0.05	mg/L						
CCV		26-Sep-01 18:02													
	509	Nitrite+Nitrate	1	1	0.202	0.202		0.01	mg/L		0.2	101			
	507	Nitrite	1	1	0.098	0.0980		0.01	mg/L		0.1	98			
	508	Nitrate	1	1	0.104	0.104		0.01	mg/L		0.1	104			
BLA01		26-Sep-01 18:03													
	509	Nitrite+Nitrate	1	1	0.003		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.003		BDL	0.01	mg/L						
	A567128 DK27547	26-Sep-01 18:04													
G113.3	509	Nitrite+Nitrate	1	1	0.563	0.56		0.01	mg/L						
	507	Nitrite	1	1	0.003			0.01	mg/L						
	508	Nitrate	1	1	0.560			0.01	mg/L						
SPI01	A567128	26-Sep-01 18:05													
G	509	Nitrite+Nitrate	1	1	0.605	0.605		0.01	mg/L	0.504	0.1	101			
	507	Nitrite	1	1	0.003			0.01	mg/L		0.1				
	508	Nitrate	1	1	0.602			0.01	mg/L		0.1				
DPS01A	A567128	26-Sep-01 18:05													
G	509	Nitrite+Nitrate	1	1	0.603	0.603		0.05	mg/L	0.504	0.1	99	2		
	507	Nitrite	1	1	0.003			0.05	mg/L		0.1				
	508	Nitrate	1	1	0.600			0.05	mg/L		0.1				
	A567164 MW9	26-Sep-01 18:08													
G113.3	509	Nitrite+Nitrate	1	1	0.105	0.11		0.05	mg/L						
	507	Nitrite	1	1	0.008			0.05	mg/L						
	508	Nitrate	1	1	0.097			0.05	mg/L						
CCV		26-Sep-01 18:13													
	509	Nitrite+Nitrate	1	1	0.202	0.202		0.01	mg/L		0.2	101			
	507	Nitrite	1	1	0.097	0.0970		0.01	mg/L		0.1	97			
	508	Nitrate	1	1	0.105	0.105		0.01	mg/L		0.1	105			
BLA01		26-Sep-01 18:14													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						

TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
	A567171 MW204	26-Sep-01 18:18													
G113.3	509	Nitrite+Nitrate	1	1	0.002		BDL	0.05	mg/L						
	507	Nitrite	1	1	0.012			0.05	mg/L						
	508	Nitrate	1	1	-0.010			0.05	mg/L						
DUP01	A567171	26-Sep-01 18:19													
G113.3	509	Nitrite+Nitrate	1	1	0.004		BDL	0.05	mg/L						
	507	Nitrite	1	1	0.014			0.05	mg/L						
	508	Nitrate	1	1	-0.010			0.05	mg/L						
	A567173 MW7	26-Sep-01 18:21													
G113.3	509	Nitrite+Nitrate	1	1	0.002		BDL	0.05	mg/L						
	507	Nitrite	1	1	0.003			0.05	mg/L						
	508	Nitrate	1	1	-0.001			0.05	mg/L						
	A567174 MW203	26-Sep-01 18:22													
G113.3	509	Nitrite+Nitrate	1	1	0.002		BDL	0.05	mg/L						
	507	Nitrite	1	1	0.002			0.05	mg/L						
	508	Nitrate	1	1	0.000			0.05	mg/L						
CCV		26-Sep-01 18:25													
	509	Nitrite+Nitrate	1	1	0.202	0.202		0.01	mg/L		0.2	101			
	507	Nitrite	1	1	0.097	0.0970		0.01	mg/L		0.1	97			
	508	Nitrate	1	1	0.105	0.105		0.01	mg/L		0.1	105			
BLA01		26-Sep-01 18:26													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						
	A567180 FB	26-Sep-01 18:33													
G113.3	509	Nitrite+Nitrate	1	1	0.007		BDL	0.05	mg/L						
	507	Nitrite	1	1	0.002			0.05	mg/L						
	508	Nitrate	1	1	0.005			0.05	mg/L						
	A567200 MW7DA	26-Sep-01 18:33													
G113.3	509	Nitrite+Nitrate	1	1	0.247	0.25		0.05	mg/L						
	507	Nitrite	1	1	0.002			0.05	mg/L						
	508	Nitrate	1	1	0.245			0.05	mg/L						
	A567201 MW8D	26-Sep-01 18:34													
G113.3	509	Nitrite+Nitrate	1	1	0.133	0.13		0.05	mg/L						
	507	Nitrite	1	1	0.003			0.05	mg/L						
	508	Nitrate	1	1	0.130			0.05	mg/L						

TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
CCV		26-Sep-01 18:36													
	509	Nitrite+Nitrate	1	1	0.203	0.203		0.01	mg/L		0.2	101.5			
	507	Nitrite	1	1	0.097	0.0970		0.01	mg/L		0.1	97			
	508	Nitrate	1	1	0.106	0.106		0.01	mg/L		0.1	106			
BLA01		26-Sep-01 18:37													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						
	A566688	26-Sep-01 18:40													
G113.3	509	Nitrite+Nitrate	1	10	1.561	1.6		0.10	mg/L						
	507	Nitrite	1	10	0.069			0.10	mg/L						
	508	Nitrate	1	10	1.492			0.10	mg/L						
	A566874 009	26-Sep-01 18:42													
G113.3	509	Nitrite+Nitrate	1	10	1.113	1.1		0.10	mg/L						
	507	Nitrite	1	10	-0.003			0.10	mg/L						
	508	Nitrate	1	10	1.116			0.10	mg/L						
CCV		26-Sep-01 18:44													
	509	Nitrite+Nitrate	1	1	0.202	0.202		0.01	mg/L		0.2	101			
	507	Nitrite	1	1	0.096	0.0960		0.01	mg/L		0.1	96			
	508	Nitrate	1	1	0.106	0.106		0.01	mg/L		0.1	106			
BLA01		26-Sep-01 18:45													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						
	A567634 C	26-Sep-01 18:52													
	509	Nitrite+Nitrate	1	1	0.072			0.01	mg/L						
G107.3	507	Nitrite	1	1	0.066	0.07		0.01	mg/L						
G106.3	508	Nitrate	1	1	0.006		BDL	0.01	mg/L						
SPI01	A567634	26-Sep-01 18:53													
	509	Nitrite+Nitrate	1	1	0.170			0.01	mg/L		0.1				
G	507	Nitrite	1	1	0.158	0.158		0.01	mg/L	0.063	0.1	95			
	508	Nitrate	1	1	0.012			0.01	mg/L		0.1				
DPS01	A567634	26-Sep-01 18:54													
	509	Nitrite+Nitrate	1	1	0.169			0.01	mg/L		0.1				
G	507	Nitrite	1	1	0.158	0.158		0.01	mg/L	0.063	0.1	95	0		
	508	Nitrate	1	1	0.011			0.01	mg/L		0.1				

TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
SPI01	A567634	26-Sep-01 18:56													
	509	Nitrite+Nitrate	1	1	0.161			0.01	mg/L		0.1				
	507	Nitrite	1	1	0.061			0.01	mg/L		0.1				
G	508	Nitrate	1	1	0.100	0.100		0.01	mg/L		0.1	100			
DPS01	A567634	26-Sep-01 18:57													
	509	Nitrite+Nitrate	1	1	0.162			0.01	mg/L		0.1				
	507	Nitrite	1	1	0.061			0.01	mg/L		0.1				
G	508	Nitrate	1	1	0.101	0.101		0.01	mg/L		0.1	101	1		
CCV		26-Sep-01 19:00													
	509	Nitrite+Nitrate	1	1	0.197	0.197		0.01	mg/L		0.2	98.5			
	507	Nitrite	1	1	0.096	0.0960		0.01	mg/L		0.1	96			
	508	Nitrate	1	1	0.101	0.101		0.01	mg/L		0.1	101			
BLA01		26-Sep-01 19:01													
	509	Nitrite+Nitrate	1	1	0.002		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.002		BDL	0.01	mg/L						
	A566687 OUT002	26-Sep-01 19:18													
G113.3	509	Nitrite+Nitrate	1	10	1.150	1.2		0.10	mg/L						
	507	Nitrite	1	10	0.038			0.10	mg/L						
	508	Nitrate	1	10	1.112			0.10	mg/L						
	A567091 MW12	26-Sep-01 19:23													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	-0.003			0.50	mg/L						
	508	Nitrate	1	10	0.027			0.50	mg/L						
	A567104 CL1	26-Sep-01 19:25													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.02	mg/L						TC115
	507	Nitrite	1	10	-0.003			0.02	mg/L						
	508	Nitrate	1	10	0.027			0.02	mg/L						
	A567163 MW10	26-Sep-01 19:28													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	-0.003			0.50	mg/L						
	508	Nitrate	1	10	0.027			0.50	mg/L						
	A567165 MW1	26-Sep-01 19:30													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	0.030			0.50	mg/L						
	508	Nitrate	1	10	-0.006			0.50	mg/L						

TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
	A567166 MW2	26-Sep-01 19:33													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	0.019			0.50	mg/L						
	508	Nitrate	1	10	0.005			0.50	mg/L						
	A567167 MW8RRR	26-Sep-01 19:35													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	-0.003			0.50	mg/L						
	508	Nitrate	1	10	0.027			0.50	mg/L						
	A567168 MW5	26-Sep-01 19:38													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	0.018			0.50	mg/L						
	508	Nitrate	1	10	0.006			0.50	mg/L						
CCV		26-Sep-01 19:39													
	509	Nitrite+Nitrate	1	1	0.215	0.215		0.01	mg/L		0.2	107.5			
	507	Nitrite	1	1	0.102	0.102		0.01	mg/L		0.1	102			
	508	Nitrate	1	1	0.113	0.113		0.01	mg/L		0.1	113			
BLA01		26-Sep-01 19:40													
	509	Nitrite+Nitrate	1	1	0.002			0.01	mg/L						
	507	Nitrite	1	1	0.002			0.01	mg/L						
	508	Nitrate	1	1	0.000			0.01	mg/L						
	A567169 MW4	26-Sep-01 19:42													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	0.017			0.50	mg/L						
	508	Nitrate	1	10	0.007			0.50	mg/L						
	A567170 MW205	26-Sep-01 19:45													
G113.3	509	Nitrite+Nitrate	1	100	0.242		BDL	5.0	mg/L						TC115
	507	Nitrite	1	100	0.113			5.0	mg/L						
	508	Nitrate	1	100	0.129			5.0	mg/L						
	A567172 MW205R	26-Sep-01 19:47													
G113.3	509	Nitrite+Nitrate	1	100	0.242		BDL	5.0	mg/L						TC115
	507	Nitrite	1	100	0.150			5.0	mg/L						
	508	Nitrate	1	100	0.092			5.0	mg/L						
	A567175 MW6	26-Sep-01 19:48													
G113.3	509	Nitrite+Nitrate	10	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	10	10	0.029			0.50	mg/L						
	508	Nitrate	10	10	-0.005			0.50	mg/L						

TestID	Sample	Parm	Man. Dil'n	Total Dil'n	Conc.	Result	RQL	DL	Units	Samp Conc	Std. TV	% Rec	RPD	#	Comments
SPI01	A567175	26-Sep-01 19:49													
G	509	Nitrite+Nitrate	10	10	0.977	0.977		0.50	mg/L	0	1	97.7			
	507	Nitrite	10	10	0.028			0.50	mg/L		1				
	508	Nitrate	10	10	0.949			0.50	mg/L		1				
DPS01	A567175	26-Sep-01 19:50													
G	509	Nitrite+Nitrate	10	10	0.981	0.981		0.50	mg/L	0	1	98.1	0.4		
	507	Nitrite	10	10	0.028			0.50	mg/L		1				
	508	Nitrate	10	10	0.953			0.50	mg/L		1				
	A567176 DUPMW3	26-Sep-01 19:53													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	-0.003			0.50	mg/L						
	508	Nitrate	1	10	0.027			0.50	mg/L						
	A567177 MW3R	26-Sep-01 19:56													
G113.3	509	Nitrite+Nitrate	1	10	0.024		BDL	0.50	mg/L						TC115
	507	Nitrite	1	10	-0.003			0.50	mg/L						
	508	Nitrate	1	10	0.027			0.50	mg/L						
CCV		26-Sep-01 19:59													
	509	Nitrite+Nitrate	1	1	0.209	0.209		0.01	mg/L		0.2	104.5			
	507	Nitrite	1	1	0.101	0.101		0.01	mg/L		0.1	101			
	508	Nitrate	1	1	0.108	0.108		0.01	mg/L		0.1	108			
BLA01		26-Sep-01 20:00													
	509	Nitrite+Nitrate	1	1	0.004		BDL	0.01	mg/L						
	507	Nitrite	1	1	0.000		BDL	0.01	mg/L						
	508	Nitrate	1	1	0.004		BDL	0.01	mg/L						

Data File	Date	Time	Cup #	Sample ID	Sample Type	Man. Dil F	Auto Dil F	Weight	Unit	Analyte	Result/ Area	Unit	Analyte	Result/ Area	Unit
01092601.FDT	26-Sep-01	16:34:07	1	CAL01 1 1.00/0.50	CalStd	1	1	1	g	Nitrite	14559879	uv-s	Nitrate+Nitrite	26677788	uv-s
01092601.FDT	26-Sep-01	16:36:30	1	CAL01 2 0.50/0.25	CalStd	1	2	1	g	Nitrite	7027540	uv-s	Nitrate+Nitrite	12878603	uv-s
01092601.FDT	26-Sep-01	16:37:29	5	CAL01 3 0.20/0.10	CalStd	1	1	1	g	Nitrite	2929959	uv-s	Nitrate+Nitrite	5316199	uv-s
01092601.FDT	26-Sep-01	16:39:55	5	CAL01 4 0.10/0.05	CalStd	1	2	1	g	Nitrite	1462259	uv-s	Nitrate+Nitrite	2582957	uv-s
01092601.FDT	26-Sep-01	16:42:22	5	CAL01 5 0.05/0.025	CalStd	1	4	1	g	Nitrite	769798	uv-s	Nitrate+Nitrite	1276324	uv-s
01092601.FDT	26-Sep-01	16:45:12	5	CAL01 6 0.01/0.005	CalStd	1	20	1	g	Nitrite	204242	uv-s	Nitrate+Nitrite	268076	uv-s
01092601.FDT	26-Sep-01	16:46:09	2	CAL01 7 0.000/0.00	CalStd	1	1	1	g	Nitrite	0	uv-s	Nitrate+Nitrite	0	uv-s
01092601.FDT	26-Sep-01	16:48:22	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092601.FDT	26-Sep-01	16:49:21	6	CDL01	RelChkStd	1	1	1	g	Nitrite	0.026539	mg/L	Nitrate+Nitrite	0.052683	mg/L
01092601.FDT	26-Sep-01	16:50:18	3	ICV01 NO2	RelChkStd	1	1	1	g	Nitrite	0.277878	mg/L	Nitrate+Nitrite	0.295826	mg/L
01092601.FDT	26-Sep-01	16:51:16	4	ICV01 NO3	RelChkStd	1	1	1	g	Nitrite	0.00296	mg/L	Nitrate+Nitrite	0.824342	mg/L
01092601.FDT	26-Sep-01	16:52:14	1	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.00382	mg/L
01092601.FDT	26-Sep-01	16:53:13	2	A567535 EFF	Unknown	10	1	1	g	Nitrite	0.004374	mg/L	Nitrate+Nitrite	0.003985	mg/L
01092601.FDT	26-Sep-01	16:54:11	3	SPI01 A567535	Unknown	10	1	1	g	Nitrite	0.004041	mg/L	Nitrate+Nitrite	0.100854	mg/L
01092601.FDT	26-Sep-01	16:55:09	4	DPS01 A567535	Unknown	10	1	1	g	Nitrite	0.004114	mg/L	Nitrate+Nitrite	0.100457	mg/L
01092601.FDT	26-Sep-01	16:56:08	5	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.004164	mg/L
01092601.FDT	26-Sep-01	16:57:06	6	A567557 A03U	Unknown	1	1	1	g	Nitrite	0.002526	mg/L	Nitrate+Nitrite	0.011516	mg/L
01092601.FDT	26-Sep-01	16:58:03	7	A567558 A15U	Unknown	1	1	1	g	Nitrite	0.004063	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092601.FDT	26-Sep-01	16:59:01	8	A567559 A15R	Unknown	1	1	1	g	Nitrite	0.003192	mg/L	Nitrate+Nitrite	0.062568	mg/L
01092601.FDT	26-Sep-01	16:59:58	9	SPI01 A567559	Unknown	1	1	1	g	Nitrite	0.003269	mg/L	Nitrate+Nitrite	0.15048	mg/L
01092601.FDT	26-Sep-01	17:00:55	10	DPS01 A567559	Unknown	1	1	1	g	Nitrite	0.003807	mg/L	Nitrate+Nitrite	0.151447	mg/L
01092601.FDT	26-Sep-01	17:01:54	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.098759	mg/L	Nitrate+Nitrite	0.197922	mg/L
01092601.FDT	26-Sep-01	17:02:51	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092601.FDT	26-Sep-01	17:03:49	11	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.000725	mg/L	Nitrate+Nitrite	0.004049	mg/L
01092601.FDT	26-Sep-01	17:04:46	12	A567560 A06D	Unknown	1	1	1	g	Nitrite	0.003291	mg/L	Nitrate+Nitrite	0.02182	mg/L
01092601.FDT	26-Sep-01	17:05:43	13	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.002027	mg/L	Nitrate+Nitrite	0.003888	mg/L
01092601.FDT	26-Sep-01	17:07:58	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.099539	mg/L	Nitrate+Nitrite	0.20053	mg/L
01092601.FDT	26-Sep-01	17:08:55	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	17:52:28	1	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.002357	mg/L	Nitrate+Nitrite	0.00342	mg/L
01092602.FDT	26-Sep-01	17:53:27	2	A566687 OUT002	Unknown	1	1	1	g	Nitrite	0.029166	mg/L	Nitrate+Nitrite	1.049094	mg/L
01092602.FDT	26-Sep-01	17:54:25	3	A566688	Unknown	1	1	1	g	Nitrite	0.069459	mg/L	Nitrate+Nitrite	1.634871	mg/L
01092602.FDT	26-Sep-01	17:55:24	4	A566874 009	Unknown	1	1	1	g	Nitrite	0.00236	mg/L	Nitrate+Nitrite	1.139848	mg/L
01092602.FDT	26-Sep-01	17:56:22	5	A566987	Unknown	1	1	1	g	Nitrite	0.003269	mg/L	Nitrate+Nitrite	0.632979	mg/L
01092602.FDT	26-Sep-01	17:57:20	6	A567090 MW18C	Unknown	1	1	1	g	Nitrite	0.002264	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	17:58:18	7	A567091 MW12	Unknown	1	1	1	g	Nitrite	0.002826	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	17:59:15	8	A567104 CL1	Unknown	1	1	1	g	Nitrite	0.004038	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:00:12	9	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.002795	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:01:10	10	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.001993	mg/L	Nitrate+Nitrite	0.002415	mg/L

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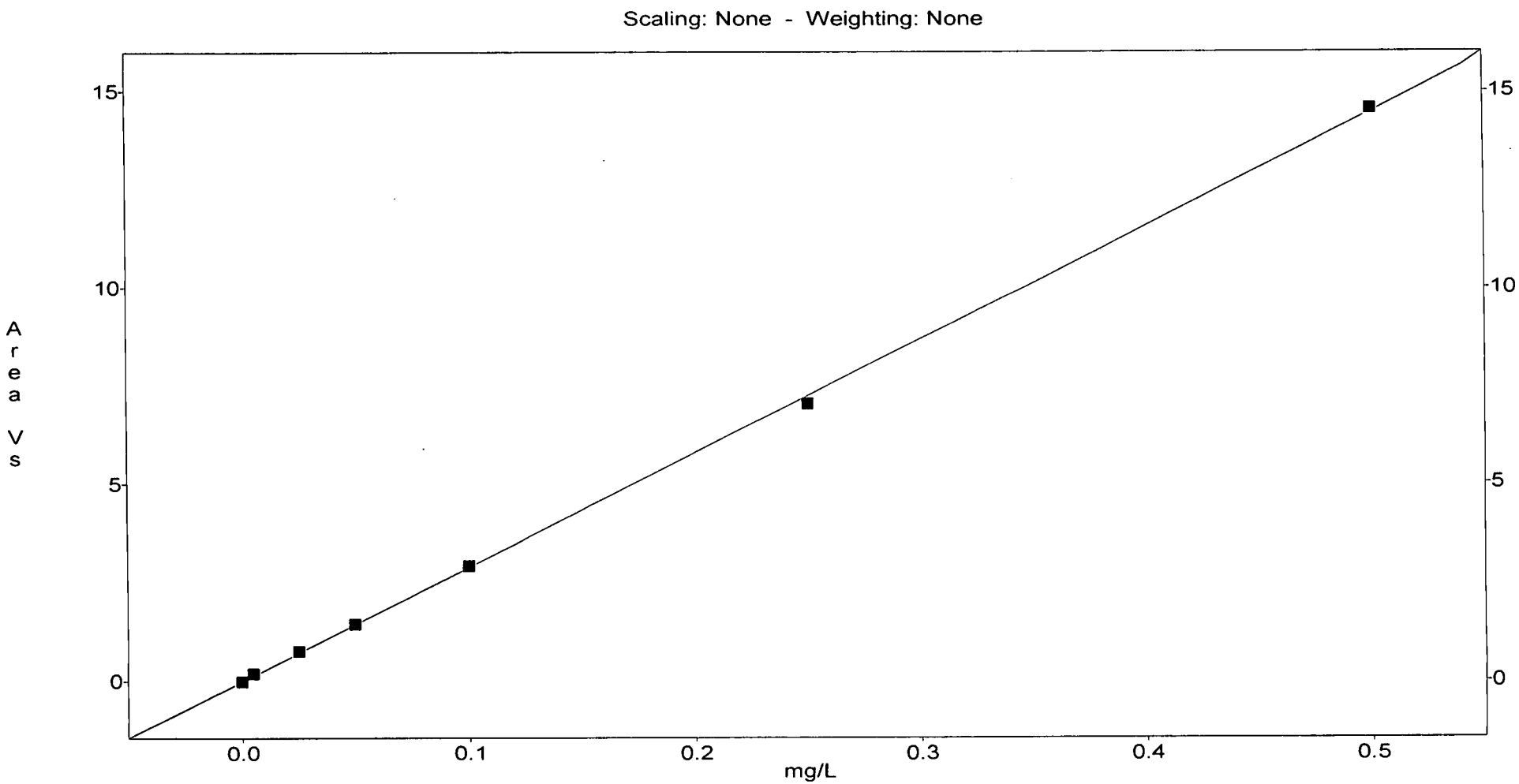
01092602.FDT	26-Sep-01	18:02:08	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.098494	mg/L	Nitrate+Nitrite	0.202461	mg/L
01092602.FDT	26-Sep-01	18:03:05	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.003059	mg/L
01092602.FDT	26-Sep-01	18:04:03	11	A567128 DK27547	Unknown	1	1	1	g	Nitrite	0.003338	mg/L	Nitrate+Nitrite	0.562934	mg/L
01092602.FDT	26-Sep-01	18:05:00	12	SPI01 A567128	Unknown	1	1	1	g	Nitrite	0.003081	mg/L	Nitrate+Nitrite	0.605369	mg/L
01092602.FDT	26-Sep-01	18:05:58	13	DPS01A567128	Unknown	1	1	1	g	Nitrite	0.003268	mg/L	Nitrate+Nitrite	0.603209	mg/L
01092602.FDT	26-Sep-01	18:06:54	14	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.00216	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:07:50	15	A567163 MW10	Unknown	1	1	1	g	Nitrite	0.002475	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:08:49	16	A567164 MW9	Unknown	1	1	1	g	Nitrite	0.007752	mg/L	Nitrate+Nitrite	0.10506	mg/L
01092602.FDT	26-Sep-01	18:09:47	17	A567165 MW1	Unknown	1	1	1	g	Nitrite	0.018895	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:10:46	18	A567166 MW2	Unknown	1	1	1	g	Nitrite	0.007271	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:11:44	19	A567167 MW8RRR	Unknown	1	1	1	g	Nitrite	0.001746	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:12:42	20	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.00144	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:13:41	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.09747	mg/L	Nitrate+Nitrite	0.20169	mg/L
01092602.FDT	26-Sep-01	18:14:38	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:15:37	21	A567168 MW5	Unknown	1	1	1	g	Nitrite	0.006643	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:16:35	22	A567169 MW4	Unknown	1	1	1	g	Nitrite	0.016459	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:17:32	23	A567170 MW205	Unknown	1	1	1	g	Nitrite	0.032505	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:18:30	24	A567171MW204	Unknown	1	1	1	g	Nitrite	0.012321	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:19:27	25	DUP01 MW204	Unknown	1	1	1	g	Nitrite	0.013725	mg/L	Nitrate+Nitrite	0.003742	mg/L
01092602.FDT	26-Sep-01	18:20:24	26	A567172 MW205R	Unknown	1	1	1	g	Nitrite	0.032981	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:21:22	27	A567173 MW7	Unknown	1	1	1	g	Nitrite	0.003003	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:22:19	28	A567174 MW203	Unknown	1	1	1	g	Nitrite	0.002386	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:23:17	29	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.002417	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:24:14	30	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.001905	mg/L	Nitrate+Nitrite	0.003326	mg/L
01092602.FDT	26-Sep-01	18:25:13	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.097467	mg/L	Nitrate+Nitrite	0.201832	mg/L
01092602.FDT	26-Sep-01	18:26:10	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:27:09	31	A567175 MW6	Unknown	1	1	1	g	Nitrite	0.013644	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:28:08	32	SPI01 A567175	Unknown	1	1	1	g	Nitrite	0.01185	mg/L	Nitrate+Nitrite	0.062179	mg/L
01092602.FDT	26-Sep-01	18:29:06	33	DPS01 A567175	Unknown	1	1	1	g	Nitrite	0.011824	mg/L	Nitrate+Nitrite	0.062027	mg/L
01092602.FDT	26-Sep-01	18:30:05	34	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.002088	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:31:03	35	A567176 DUPMW32	Unknown	1	1	1	g	Nitrite	0.004088	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:32:01	36	A567177 MW3R	Unknown	1	1	1	g	Nitrite	0.004021	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:33:00	37	A567180 FB	Unknown	1	1	1	g	Nitrite	0.001843	mg/L	Nitrate+Nitrite	0.006546	mg/L
01092602.FDT	26-Sep-01	18:33:58	38	A567200 MW7DA	Unknown	1	1	1	g	Nitrite	0.002087	mg/L	Nitrate+Nitrite	0.246977	mg/L
01092602.FDT	26-Sep-01	18:34:55	39	A567201 MW8D	Unknown	1	1	1	g	Nitrite	0.002526	mg/L	Nitrate+Nitrite	0.133012	mg/L
01092602.FDT	26-Sep-01	18:35:53	40	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.002392	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:36:51	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.097463	mg/L	Nitrate+Nitrite	0.202838	mg/L
01092602.FDT	26-Sep-01	18:37:48	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092602.FDT	26-Sep-01	18:40:16	3	A566688	Unknown	1	10	1	g	Nitrite	0.068994	mg/L	Nitrate+Nitrite	1.561399	mg/L

01092602.FDT	26-Sep-01	18:42:44	4	A566874 009	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	1.112968	mg/L
01092602.FDT	26-Sep-01	18:44:58	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.096341	mg/L	Nitrate+Nitrite	0.201903	mg/L
01092602.FDT	26-Sep-01	18:45:55	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092603.FDT	26-Sep-01	18:51:20	1	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
3 01092603.FDT	26-Sep-01	18:52:18	2	A567634 C	Unknown	1	1	1	g	Nitrite	0.066237	mg/L	Nitrate+Nitrite	0.072406	mg/L
01092603.FDT	26-Sep-01	18:53:17	3	SPI01 A567634	Unknown	1	1	1	g	Nitrite	0.157742	mg/L	Nitrate+Nitrite	0.170312	mg/L
01092603.FDT	26-Sep-01	18:54:15	4	DPS01 A567634	Unknown	1	1	1	g	Nitrite	0.158483	mg/L	Nitrate+Nitrite	0.169145	mg/L
01092603.FDT	26-Sep-01	18:55:14	5	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.001843	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092603.FDT	26-Sep-01	18:56:12	6	SPI01 A567634	Unknown	1	1	1	g	Nitrite	0.060546	mg/L	Nitrate+Nitrite	0.160918	mg/L
01092603.FDT	26-Sep-01	18:57:09	7	DPS01 A567634	Unknown	1	1	1	g	Nitrite	0.061068	mg/L	Nitrate+Nitrite	0.161575	mg/L
01092603.FDT	26-Sep-01	18:58:07	8	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092603.FDT	26-Sep-01	19:00:21	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.095863	mg/L	Nitrate+Nitrite	0.197077	mg/L
01092603.FDT	26-Sep-01	19:01:18	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092604.FDT	26-Sep-01	19:16:15	1	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.002056	mg/L	Nitrate+Nitrite	0.002415	mg/L
4 01092604.FDT	26-Sep-01	19:18:43	2	A566687 OUT002	Unknown	1	10	1	g	Nitrite	0.038296	mg/L	Nitrate+Nitrite	1.149746	mg/L
C 01092604.FDT	26-Sep-01	19:21:09	5	A566987	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	0.681368	mg/L
01092604.FDT	26-Sep-01	19:23:34	7	A567091 MW12	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:25:59	8	A567104 CL1	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:28:22	15	A567163 MW10	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:30:50	17	A567165 MW1	Unknown	1	10	1	g	Nitrite	0.029507	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:33:17	18	A567166 MW2	Unknown	1	10	1	g	Nitrite	0.019254	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:35:44	19	A567167 MW8RRR	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:38:11	21	A567168 MW5	Unknown	1	10	1	g	Nitrite	0.018321	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:39:09	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.102452	mg/L	Nitrate+Nitrite	0.214898	mg/L
01092604.FDT	26-Sep-01	19:40:06	2	BLA01	Blank	1	1	1	g	Nitrite	0.00202	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092604.FDT	26-Sep-01	19:42:33	22	A567169 MW4	Unknown	1	10	1	g	Nitrite	0.017155	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:45:04	23	A567170 MW205	Unknown	1	100	1	g	Nitrite	0.112934	mg/L	Nitrate+Nitrite	0.241543	mg/L
01092604.FDT	26-Sep-01	19:47:35	26	A567172 MW205R	Unknown	1	100	1	g	Nitrite	0.150232	mg/L	Nitrate+Nitrite	0.241543	mg/L
01092604.FDT	26-Sep-01	19:48:34	31	A567175 MW6	Unknown	10	1	1	g	Nitrite	0.002902	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092604.FDT	26-Sep-01	19:49:32	32	SPI01 A567175	Unknown	10	1	1	g	Nitrite	0.002813	mg/L	Nitrate+Nitrite	0.097708	mg/L
01092604.FDT	26-Sep-01	19:50:31	33	DPS01 A567175	Unknown	10	1	1	g	Nitrite	0.002826	mg/L	Nitrate+Nitrite	0.098064	mg/L
01092604.FDT	26-Sep-01	19:51:29	34	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.001656	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092604.FDT	26-Sep-01	19:53:57	35	A567176 DUPMW32	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:56:24	36	A567177 MW3R	Unknown	1	10	1	g	Nitrite	-0.00294	mg/L	Nitrate+Nitrite	0.024154	mg/L
01092604.FDT	26-Sep-01	19:57:22	40	RINSE DO NOT RECOR	Unknown	1	1	1	g	Nitrite	0.00156	mg/L	Nitrate+Nitrite	0.002415	mg/L
01092604.FDT	26-Sep-01	19:59:36	5	CCV	RelChkStd	1	1	1	g	Nitrite	0.101146	mg/L	Nitrate+Nitrite	0.209039	mg/L
01092604.FDT	26-Sep-01	20:00:33	2	BLA01	Blank	1	1	1	g	Nitrite	-0.000294	mg/L	Nitrate+Nitrite	0.00371	mg/L

Nitrate

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	14559879	0.500	14559879					0.0	0.0	-0.6
2	7027540	0.250	7027540					0.0	0.0	2.9
3	2929959	0.100	2929959					0.0	0.0	-1.0
4	1462259	0.050	1462259					0.0	0.0	-0.5
5	769798	0.025	769798					0.0	0.0	-5.3
6	204242	0.005	204242					0.0	0.0	-35.4
7	0	0.000	0					0.0	0.0	

1st Order Poly
Conc = 3.458e-008 Area - 2.940e-004
r = 0.9998



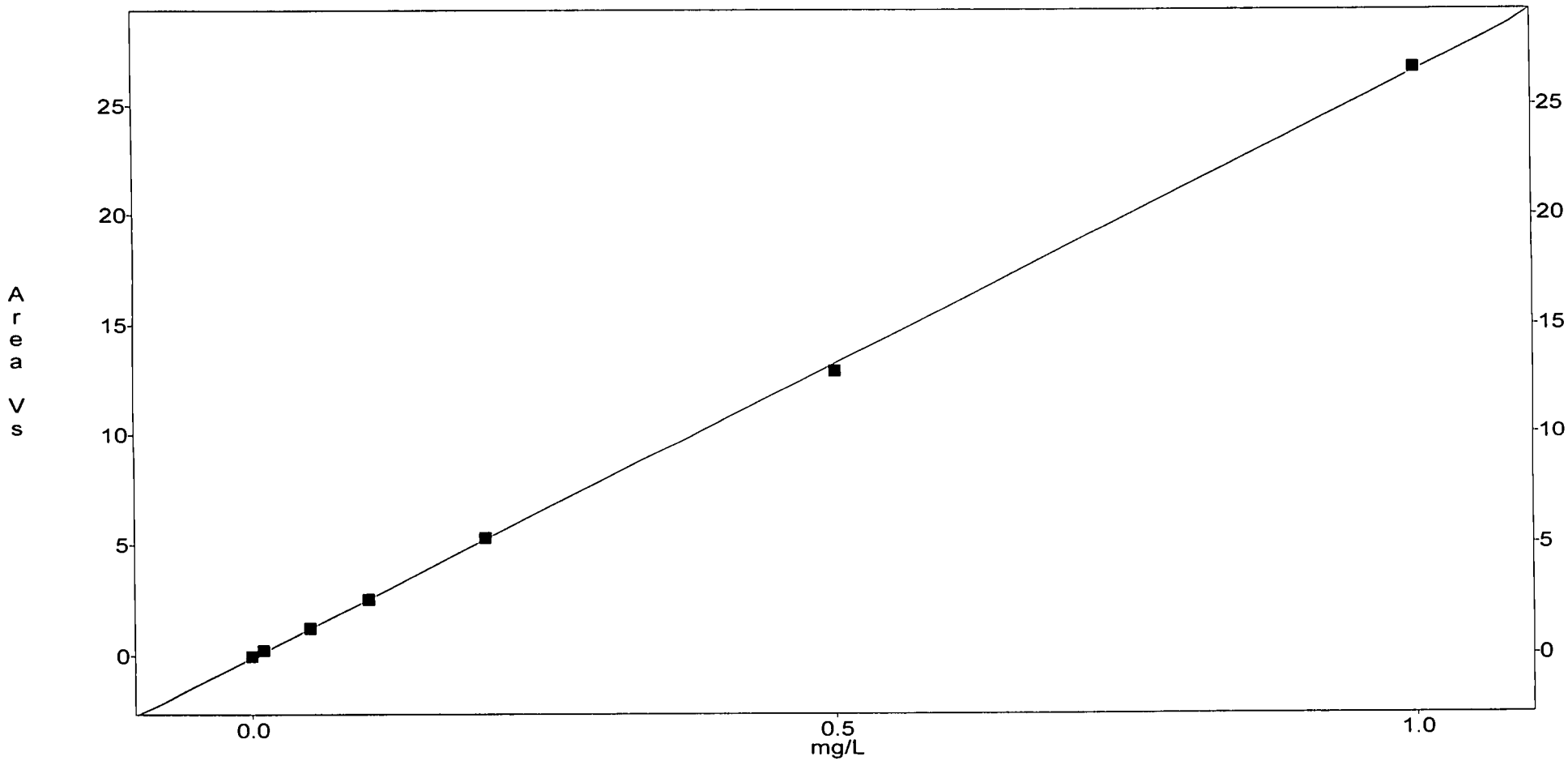
Printed: Wednesday, September 26, 2001 - 04:55 PM

Nitrate Nitrite

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	26677788	1.00	26677788					0.0	0.0	-0.6
2	12878603	0.50	12878603					0.0	0.0	2.6
3	5316199	0.20	5316199					0.0	0.0	-1.2
4	2582957	0.10	2582957					0.0	0.0	0.4
5	1276324	0.05	1276324					0.0	0.0	-0.8
6	268076	0.01	268076					0.0	0.0	-25.0
7	0	0.00	0					0.0	0.0	

1st Order Poly
Conc = 3.761e-008 Area + 2.415e-003
r = 0.9999

Scaling: None - Weighting: None



Printed: Wednesday, September 26, 2001 - 04:55 PM

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ACQ. TIME: Sep 26, 2001 16:34:06

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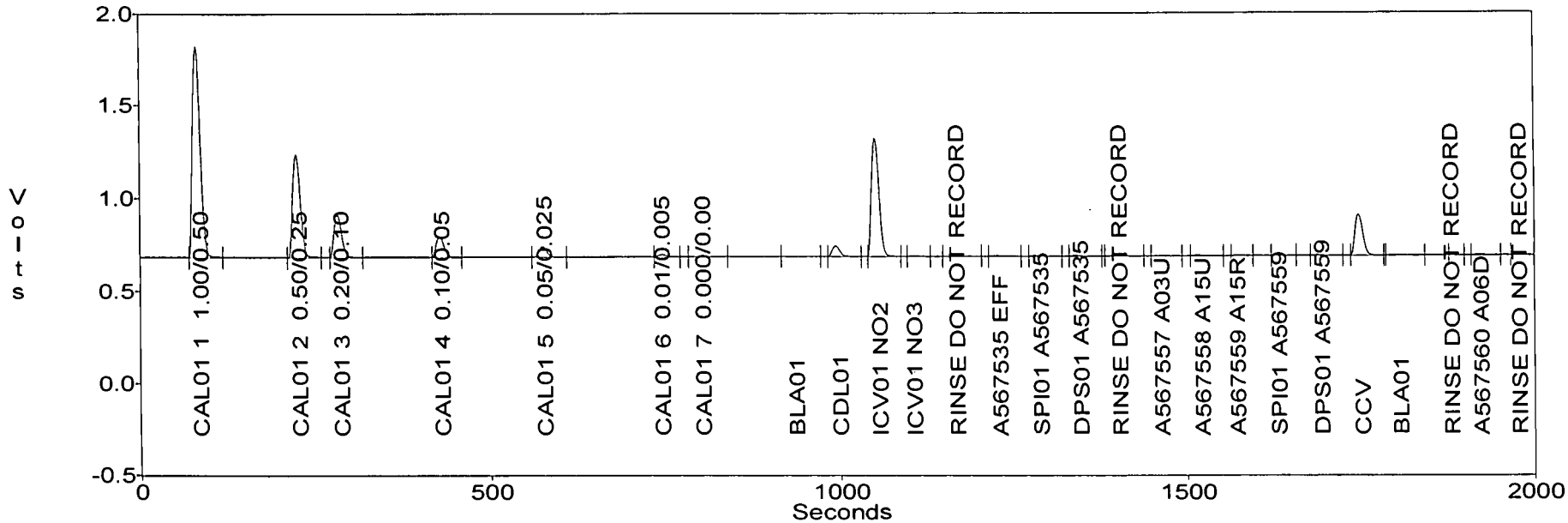
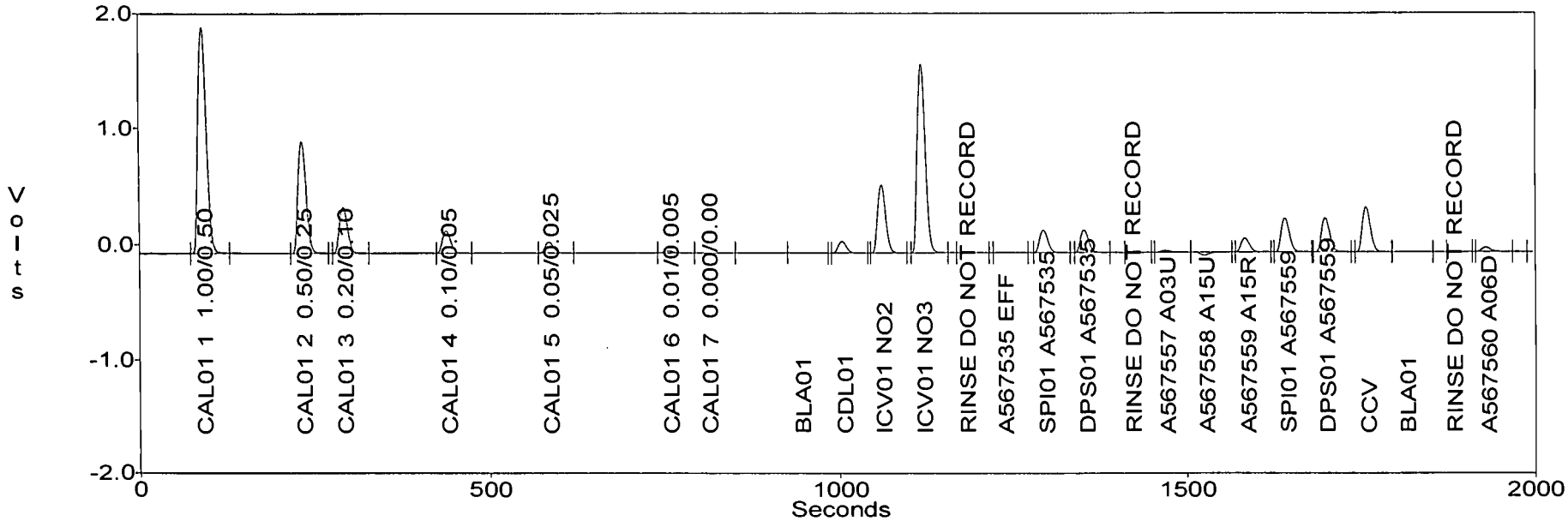
METHOD FILENAME: C:\OMNION\METHODS\NO3NO2_O.MET
TRAY FILENAME: C:\OMNION\TRAYS\NITRATE\01092601.TRA

Channel 3 - Nitrite



Channel 4 - Nitrate+Nitrite



OPERATOR: maa1437
ACQ. TIME: Sep 26, 2001 16:34:06

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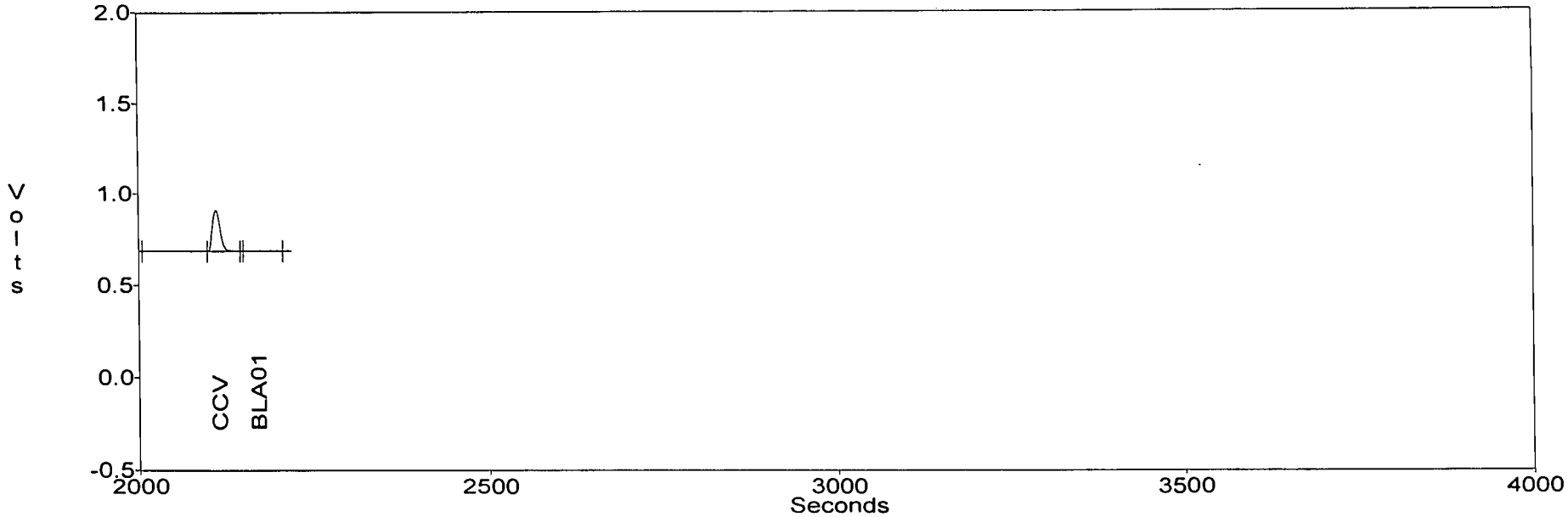
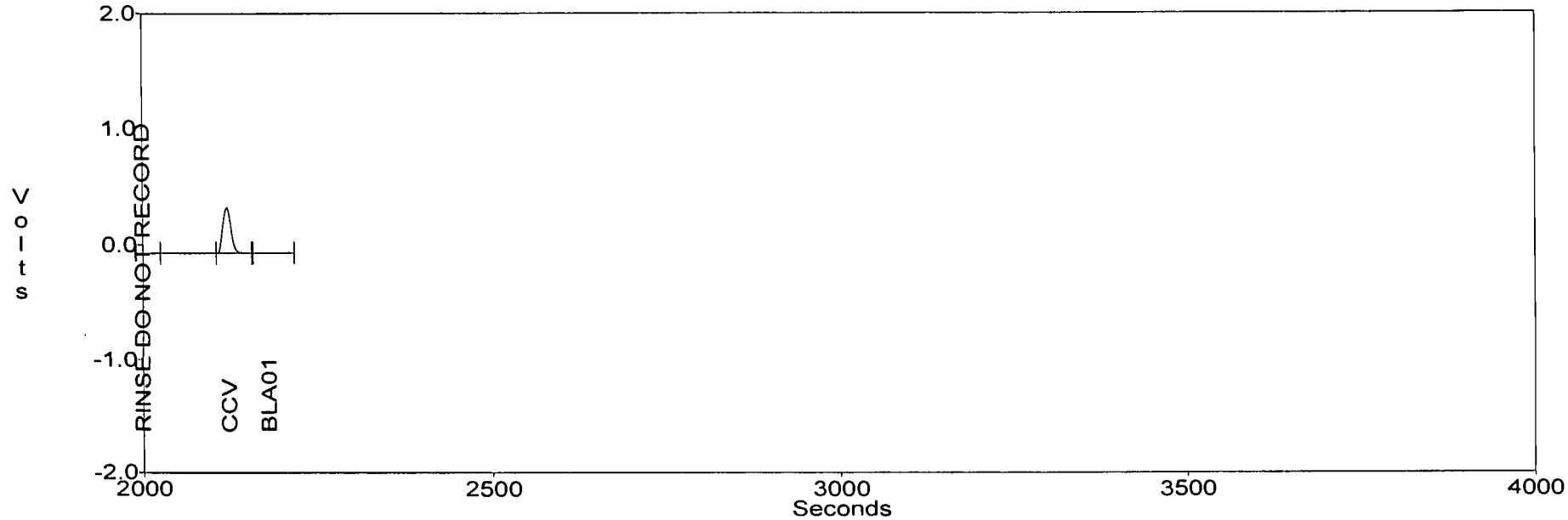
METHOD FILENAME: C:\OMNION\METHODS\NO3NO2_O.MET
TRAY FILENAME: C:\OMNION\TRAYS\NITRATE\01092601.TRA

Channel 3 - Nitrite



Channel 4 - Nitrate+Nitrite



OPERATOR: maa1437
ACQ. TIME: Sep 26, 2001 17:52:25

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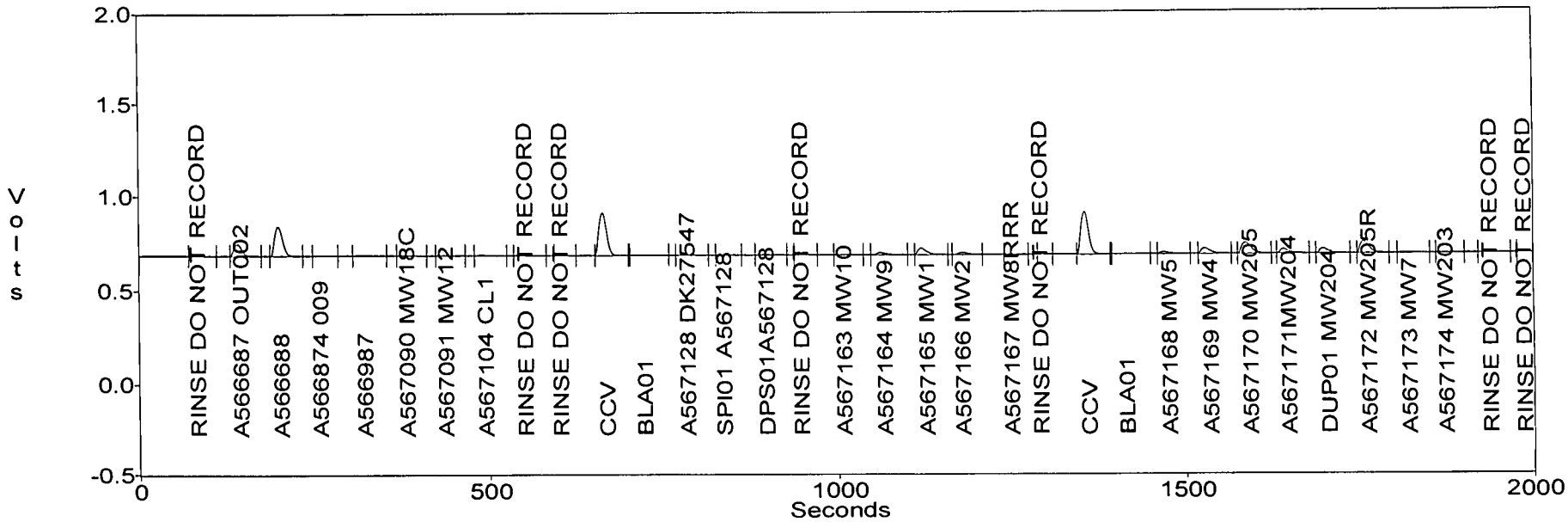
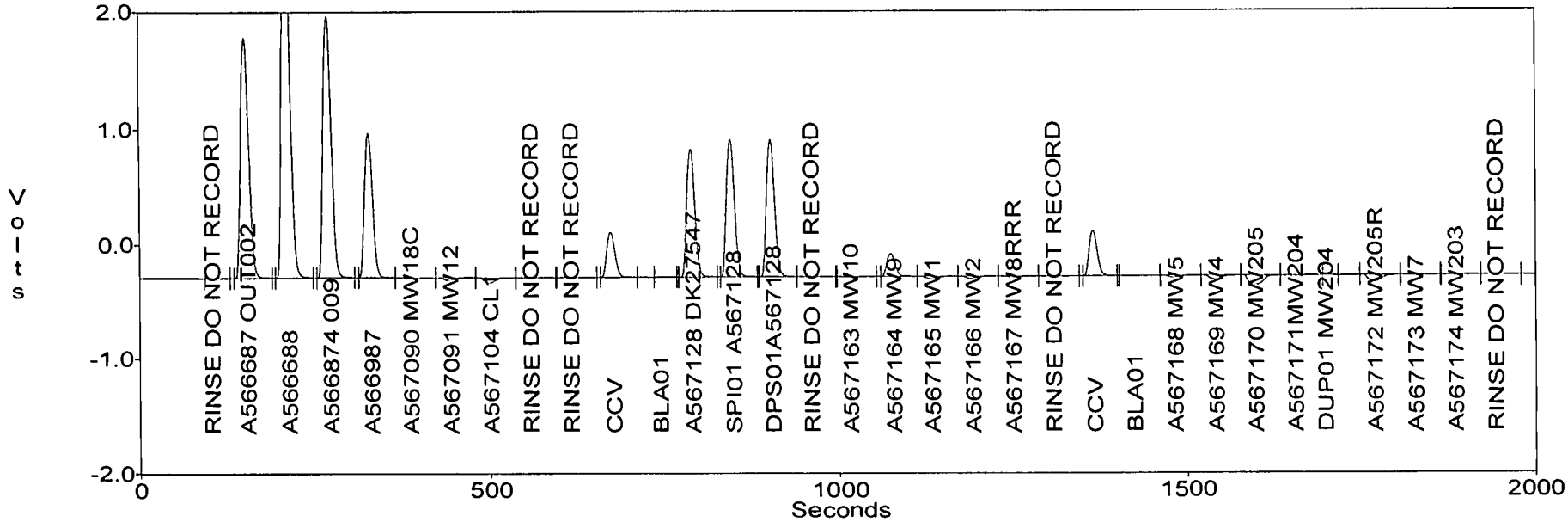
Channel 3 - Nitrite



Channel 4 - Nitrate+Nitrite



24

OPERATOR: maa1437
ACQ. TIME: Sep 26, 2001 17:52:25

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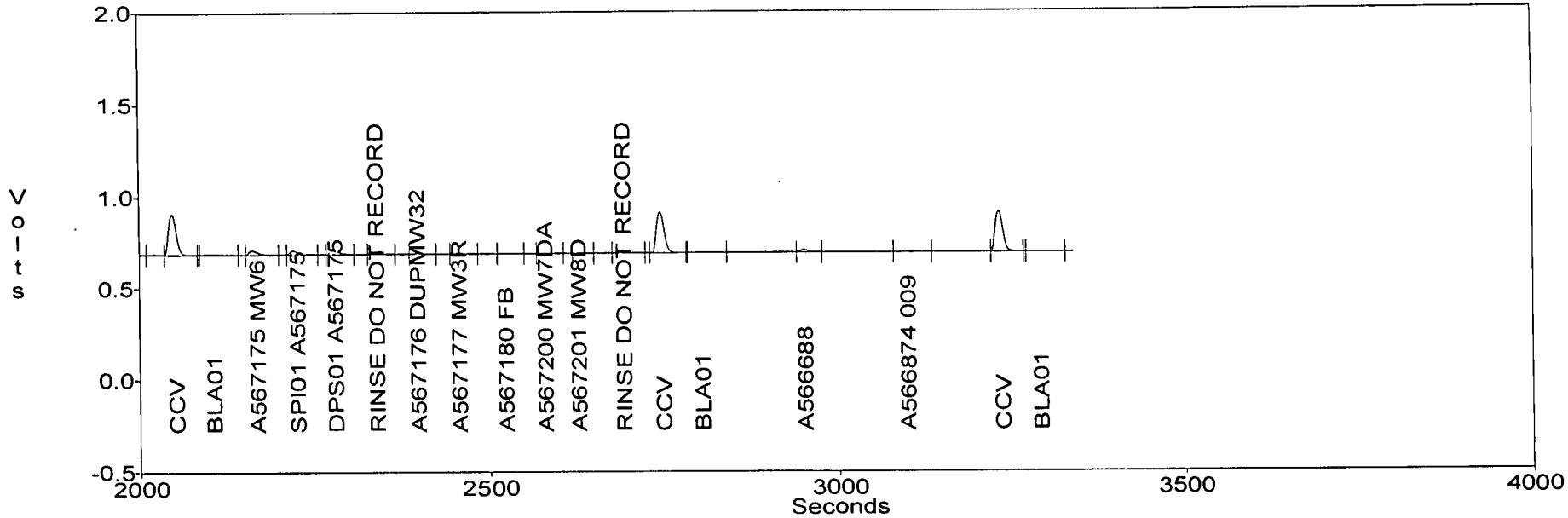
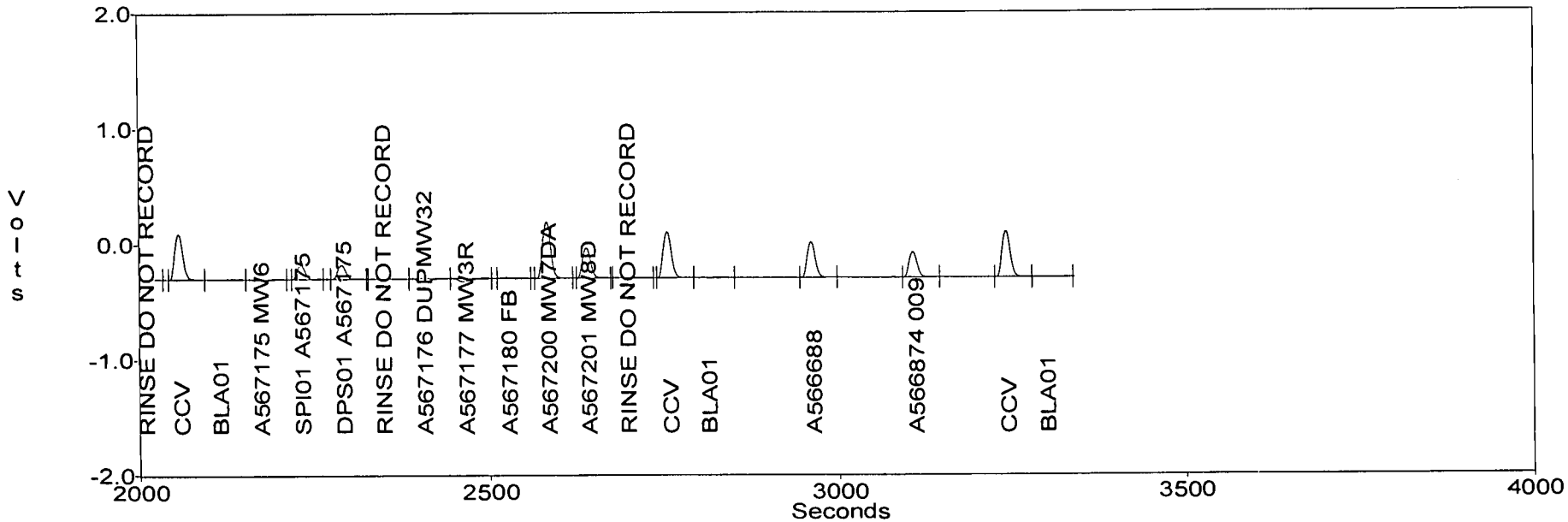
TRAY FILENAME: C:\OMNION\TRAYS\NITRATE\01092602.TRA

Channel 3 - Nitrite



Channel 4 - Nitrate+Nitrite



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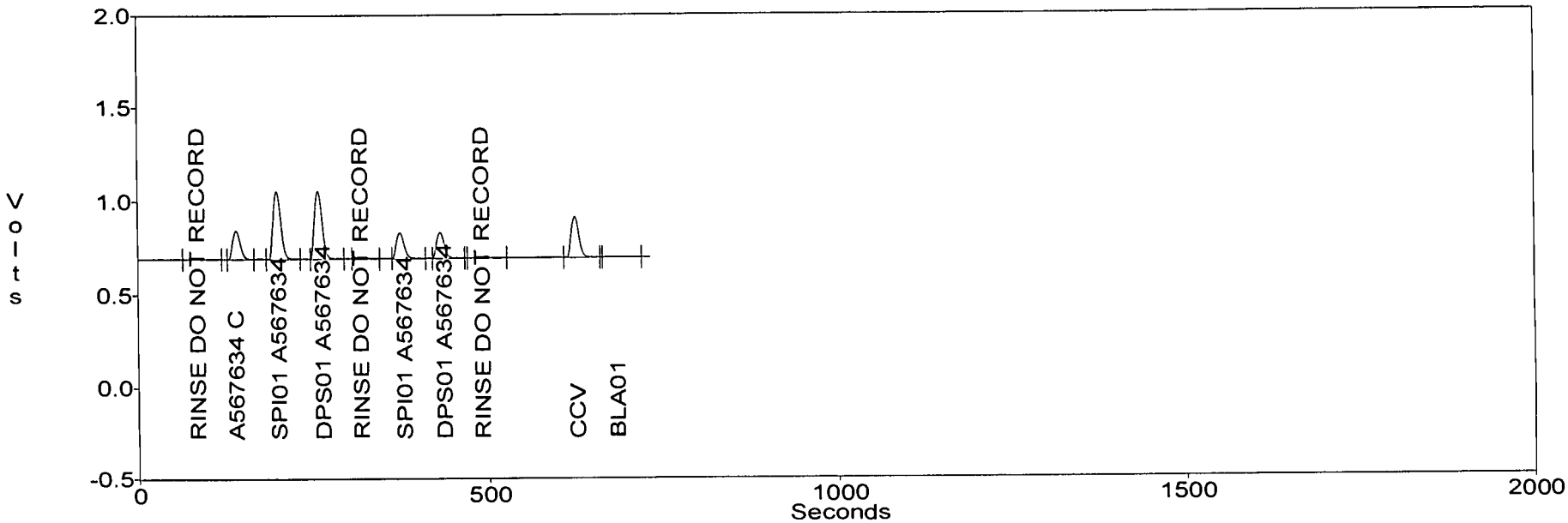
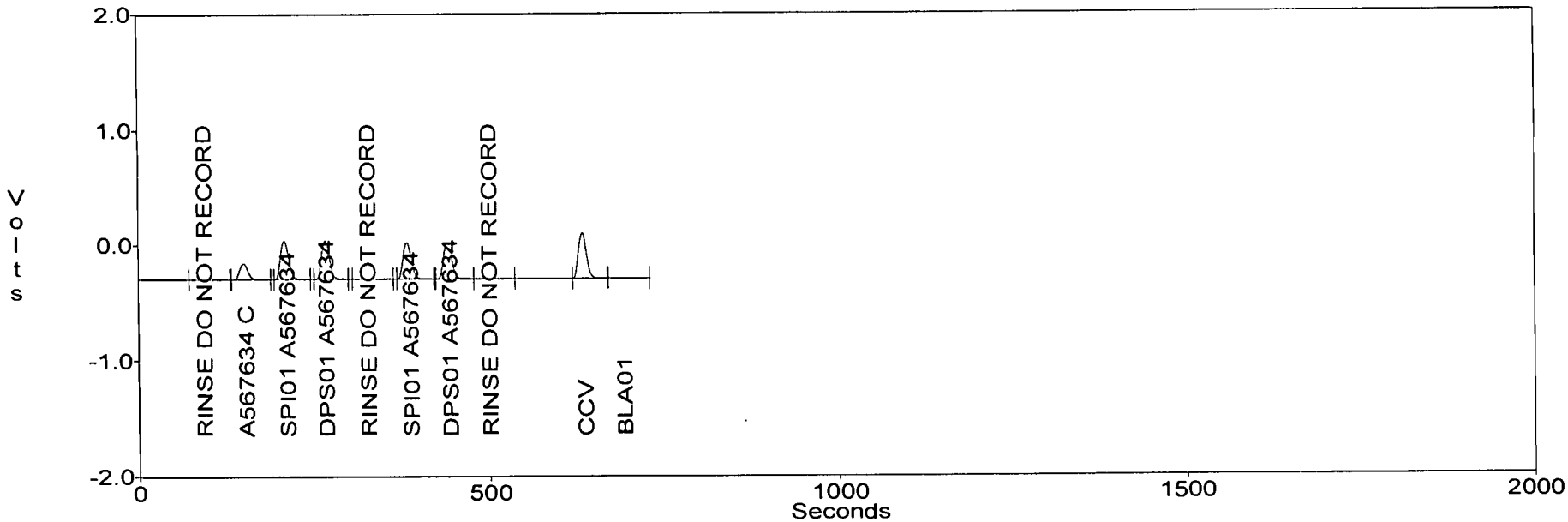
TRAY FILENAME: C:\OMNION\TRAYS\NITRATE\01092603.TRA

Channel 3 - Nitrite



Channel 4 - Nitrate+Nitrite



OPERATOR: maa1437
ACQ. TIME: Sep 26, 2001 19:16:12

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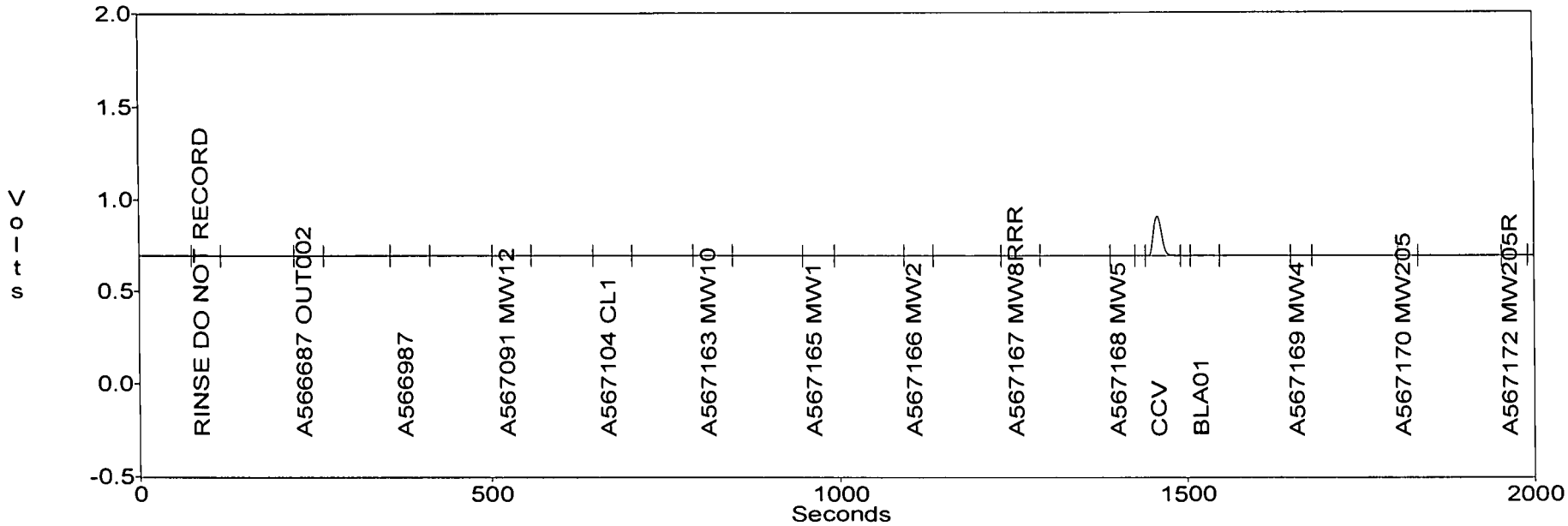
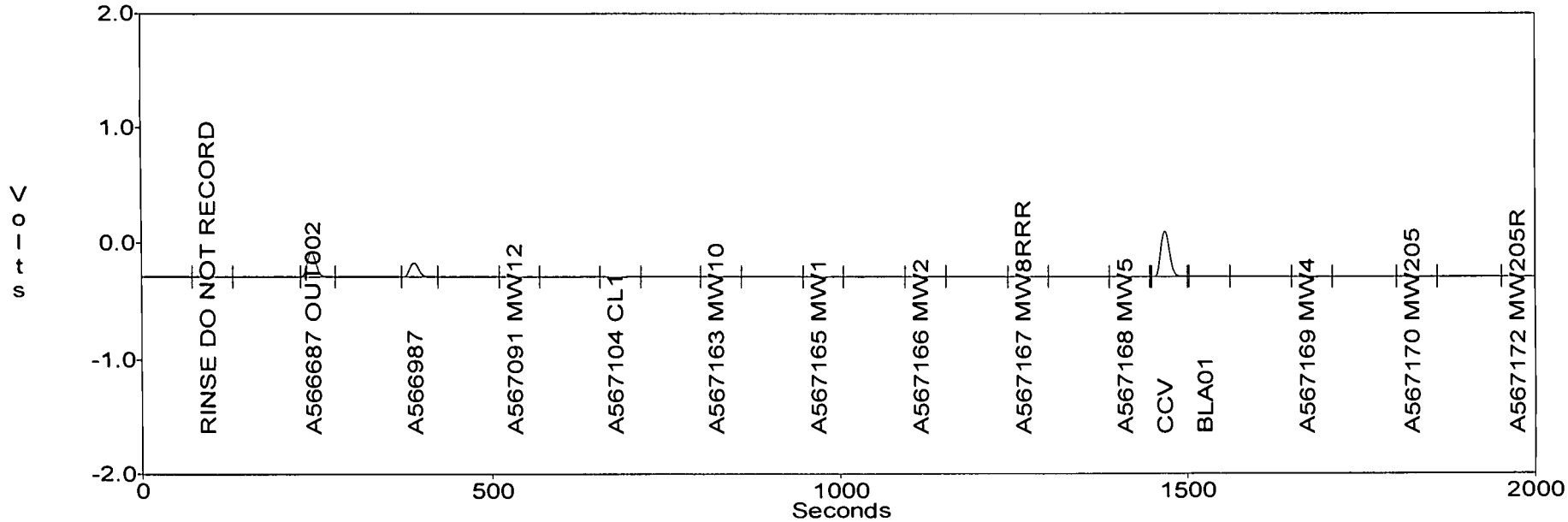
METHOD FILENAME: C:\OMNION\METHODS\NO3NO2_O.MET
TRAY FILENAME: C:\OMNION\TRAYS\NITRATE\01092604.TRA

Channel 3 - Nitrite



Channel 4 - Nitrate+Nitrite



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OPERATOR: maa1437
ACQ. TIME: Sep 26, 2001 19:16:12

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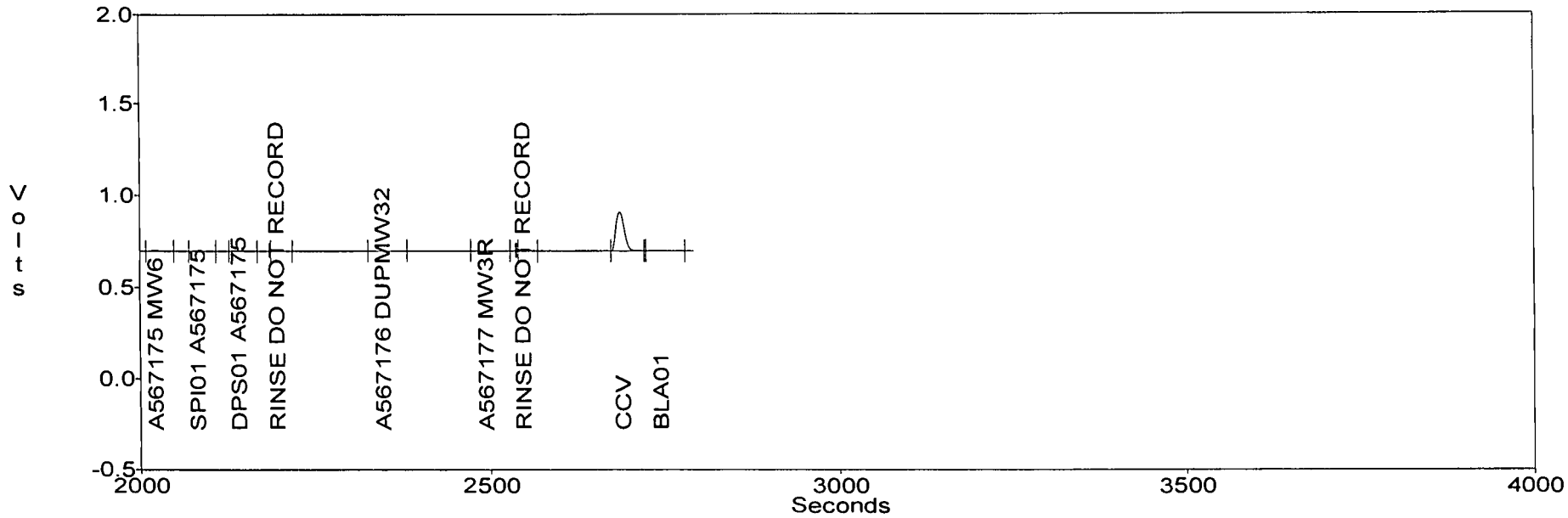
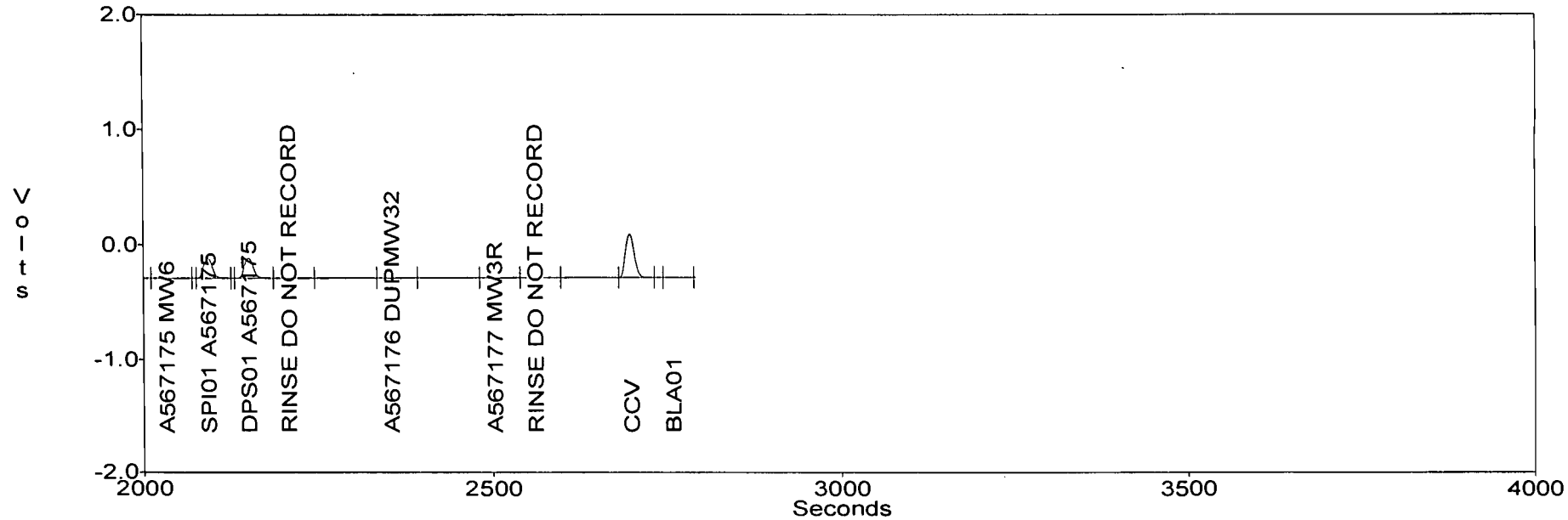
METHOD FILENAME: C:\OMNION\METHODS\NO3NO2_O.MET
TRAY FILENAME: C:\OMNION\TRAYS\NITRATE\01092604.TRA

Channel 3 - Nitrite



Channel 4 - Nitrate+Nitrite



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HERITAGE ENVIRONMENTAL SERVICES, LLC
COMMERCIAL LABORATORY OPERATIONS
METALS SECTION

CASE NARRATIVE

SAMPLE # A567128

There was possible matrix interference for K, as indicated by the serial dilution results.

Steven J. Endersen 10-2-01

Steven J Endersen, Senior Chemist

U. S. EPA -CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Initial Calibration Source : Perkin-Elmer

Continuing Calibration Source : Inorganic Ventures

Concentration Units: uG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration % R (1)	Continuing Calibration True	Continuing Calibration Found 214825	Continuing Calibration % R (1)	Continuing Calibration Found 221435	Continuing Calibration % R (1)		M
Antimony	1000	1030	103	1000	1030	103	1040	104		P
Barium	1000	1000	100	5000	4890	97.8	4970	99.4		P
Cadmium	1000	1020	102	5000	5070	101	5110	102		P
Calcium	20000	19700	98.5	50000	48700	97.4	49400	98.8		P
Chromium	1000	1020	102	5000	4900	98	4970	99.4		P
Copper	1000	996	99.6	5000	4940	98.8	4990	99.8		P
Iron	1000	1020	102	5000	4880	97.6	4940	98.8		P
Magnesium	20000	19200	96	50000	47700	95.4	48200	96.4		P
Mercury	2.00	1.92	96	3.00	3.05	102	3.11	104		CV
Nickel	1000	1010	101	5000	4860	97.2	4940	98.8		P
Potassium	20000	20800	104	50000	52500	105	53100	106		P
Sodium	20000	20900	105	50000	52200	104	52500	105		P

ICP Analytical Run Time

(1) Control Limits: Mercury 80-120: Other Metals 90-110: Cyanide 85-115.

FORM II (Part 1) - IN

U. S. EPA -CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: HES · Commercial Laboratories Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Initial Calibration Source : Perkin-Elmer

Continuing Calibration Source : Inorganic Ventures

Concentration Units: uG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration % R (1)	Continuing Calibration True	Continuing Calibration Found 223412	Continuing Calibration % R (1)	Found	% R (1)		M
Antimony				1000	1020	102				P
Barium				5000	4940	98.8				P
Cadmium				5000	5070	101				P
Calcium				50000	49200	98.4				P
Chromium				5000	4930	98.6				P
Copper				5000	4930	98.6				P
Iron				5000	4910	98.2				P
Magnesium				50000	48000	96				P
Mercury				3.00	3.14	105				CV
Nickel				5000	4910	98.2				P
Potassium				50000	52500	105				P
Sodium				50000	52200	104				P

ICP Analytical Run Time

(1) Control Limits: Mercury 80-120: Other Metals 90-110: Cyanide 85-115.

FORM II (Part 1) · IN

U. S. EPA -CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Initial Calibration Source : Perkin-Elmer

Continuing Calibration Source : Inorganic Ventures

Concentration Units: uG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration % R (1)	Continuing Calibration True	Continuing Calibration Found 151850	Continuing Calibration % R (1)	Continuing Calibration Found 155253	Continuing Calibration % R (1)		M
Arsenic	50	46.1	92.2	100	92	92	95.1	95.1		P
Beryllium	50	46.1	92.2	100	98.4	98.4	99	99		P
Lead	50	46.2	92.4	100	98.6	98.6	102	102		P

Trace ICP Analytical Run Time

(1) Control Limits: Mercury 80-120: Other Metals 90-110

FORM II (Part 1) - IN

U. S. EPA -CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: HES - Commercial Laboratories Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Initial Calibration Source : Perkin-Elmer

Continuing Calibration Source : Inorganic Ventures

Concentration Units: uG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration % R (1)	Continuing Calibration True	Continuing Calibration Found 171204	Continuing Calibration % R (1)	Continuing Calibration Found	Continuing Calibration % R (1)		M
Arsenic				100	95.7	95.7				P
Beryllium				100	98	98				P
Lead				100	98.7	98.7				P

Trace ICP Analytical Run Time

(1) Control Limits: Mercury 80-120: Other Metals 90-110
FORM II (Part 1) - IN

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U. S. EPA -CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: __

AA CRDL Calibration Source : Inorganic Ventures

ICP CRDL Calibration Source : Inorganic Ventures

Concentration Units: uG/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP						M
	True	Found	% R	True	Initial Found 213526	% R	Final Found 222428	% R		
Antimony				120	126	105	122	102		P
Barium				NA						
Cadmium				10	10.4	104	10.2	102		P
Calcium				NA						
Chromium				20	21.3	107	20.9	105		P
Copper				50	50.4	101	49.3	98.6		P
Iron				NA						
Magnesium				NA						
Mercury	0.20	0.21	105							CV
Nickel				80	81.9	102	81.7	102		P
Potassium				NA						
Sodium				NA						

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U. S. EPA -CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: __

AA CRDL Calibration Source : Inorganic Ventures

ICP CRDL Calibration Source : Inorganic Ventures

Concentration Units: uG/L

Analyte	CRDL Standard for AA			CRDL Standard for TRACE ICP						M
					Initial		Final			
	True	Found	% R	True	Found	% R	Found	% R		
					150149		165919			
Arsenic				20	18.4	92	18.6	93		P
Beryllium				10	9.19	91.9	9.3	93		P
Lead				6	4.86	81	4.75	79.2		P

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U. S. EPA -CLP

3

BLANKS

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : ___ SAS No. : ___ SDG No.: _____

Preparation Blank Matrix : Water

Preparation Blank Concentration Units (uG/L or mG/kG) : uG/L

Analyte	Initial Calibration Blank (uG/L)	C	Continuing Calibration Blank (uG/L) 1	C	2	C	3	C	Preparation Blank	C	M
	211544		*212851*		*215141*		*221752*		*215456*		
Antimony	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U	P
Barium	0.13	U	0.13	U	0.13	U	0.17	B	0.13	U	P
Cadmium	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	P
Calcium	2.9	U	2.9	U	2.9	U	3	B	14	B	P
Chromium	0.27	B	0.26	U	0.34	B	0.38	B	0.36	B	P
Copper	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	P
Iron	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	P
Magnesium	2.6	U	2.6	U	2.6	U	4	B	5.4	B	P
Mercury	0.02	B	0.02	U	0.02	U	0.02	B	0.04	B	CV
Nickel	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	P
Potassium	3.2	U	3.2	U	-4.3	B	3.2	U	-6	B	P
Sodium	0.9	U	-1.3	B	-1.9	B	2.2	B	-12	B	P

ICP Analytical Run Time

FORM III -IN

9

U. S. EPA -CLP

3

BLANKS

Lab Name: HES - Commercial Laboratories Contract : _____

Lab Code: _____ Case No. : ___ SAS No. : ___ SDG No.: _____

Preparation Blank Matrix : _____

Preparation Blank Concentration Units (uG/L or mG/kG) : _____

Analyte	Initial Calibration Blank (uG/L)	C	Continuing Calibration Blank (uG/L) 4	C	5	C	6	C	Preparation Blank	C	M
			223727								
Antimony			2.8	U							P
Barium			0.13	U							P
Cadmium			0.42	U							P
Calcium			2.9	U							P
Chromium			0.36	B							P
Copper			0.63	U							P
Iron			2.9	U							P
Magnesium			2.6	U							P
Mercury											CV
Nickel			0.63	U							P
Potassium			-3.6	B							P
Sodium			-2.3	B							P

ICP Analytical Run Time

FORM III -IN

10

icp_clp.xlw Rev. 1/95

U. S. EPA -CLP

3

BLANKS

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : ___ SAS No. : ___ SDG No.: _____

Preparation Blank Matrix : Water

Preparation Blank Concentration Units (uG/L or mG/kG) : uG/L

Analyte	Initial Calibration Blank (uG/L)	C	Continuing Calibration Blank (uG/L) 1	C	2	C	3	C	Preparation Blank	C	M
	143618		*145319*		*152306*		*155708*		*152721*		
Arsenic	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	P
Beryllium	0.097	U	0.097	U	0.097	U	0.097	U	0.097	U	P
Lead	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	P

Trace ICP Analytical Run Time

FORM III -IN

U. S. EPA -CLP

3

BLANKS

Lab Name: HES - Commercial Laboratories Contract : _____

Lab Code: _____ Case No. : ___ SAS No. : ___ SDG No.: _____

Preparation Blank Matrix : _____

Preparation Blank Concentration Units (uG/L or mG/kG) : _____

Analyte	Initial Calibration Blank (uG/L)	C	Continuing Calibration Blank (uG/L) 4	C	5	C	6	C	Preparation Blank	C	M
			171620								
Arsenic			2.9	U							P
Beryllium			0.097	U							P
Lead			1.4	U							P

Trace ICP Analytical Run Time

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FORM III -IN

U. S. EPA -CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: ___

ICP ID Number : 334 ICS Source : Perkin-Elmer

Date of Analysis : 25-Sep-01

Concentration Units: uG/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found % R	Final Found Sol. A	Final Found Sol. AB	Final Found % R
Aluminum		500,000		515,000	103		528,000	106
Antimony		600		641	107		648	108
Arsenic		100		95	95.4		95	95.1
Barium		500		499	99.8		508	102
Beryllium		500		515	103		523	105
Cadmium		1,000		1,050	105		1,080	108
Calcium		500,000		475,000	95		483,000	96.6
Chromium		500		483	96.6		491	98.2
Cobalt		500		470	94		482	96.4
Copper		500		528	106		533	107
Iron		200,000		187,000	93.5		191,000	95.5
Lead		1,000		923	92.3		940	94
Magnesium		500,000		495,000	99		505,000	101
Manganese		500		490	98		498	99.6
Mercury								
Nickel		1,000		920	92		936	93.6
Potassium								
Selenium		50		28	56		14	28.4
Silver		200		214	107		219	110
Sodium								
Thallium		100						
Vanadium		500		489	97.8		499	99.8
Zinc		1,000		933	93.3		945	94.5

FORM IV - IN

13

U. S. EPA -CLP

4

TRACE ICP INTERFERENCE CHECK SAMPLE

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: ____

ICP ID Number : Trace ICS Source : Perkin-Elmer

Date of Analysis : 1-Oct-01

Concentration Units: uG/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found % R	Final Found Sol. A	Final Found Sol. AB	Final Found % R
Aluminum		500,000		486,000	97.2		482,000	96.4
Antimony		600		606	101		596	99.3
Arsenic		100		98	98.4		93	92.5
Barium								
Beryllium		500		480	96		478	95.6
Cadmium		1,000		931	93.1		920	92
Calcium		500,000		483,000	96.6		482,000	96.4
Chromium		500		465	93		465	93
Cobalt		500		465	93		463	92.6
Copper								
Iron		200,000		196,000	98		195,000	97.5
Lead		50		59	117		58	116
Magnesium		500,000		477,000	95.4		474,000	94.8
Manganese		500		490	98		483	96.6
Mercury								
Nickel								
Potassium								
Selenium		50		48	95.6		47	94.4
Silver		200		208	104		206	103
Sodium								
Thallium		100		102	102		100	99.6
Vanadium		500		521	104		520	104
Zinc								

FORM IV - IN

14

U. S. EPA -CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A567128

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Matrix (soil/water) : Water Level (low/med): _____

Initial Wt/Vol : 50 mL

Final Volume : 50 mL

% Solids for Sample : _____ Dilution : 1

Concentration Units (uG/L or mG/kG dry weight) : uG/L

Analyte	Control Limit %R	Q1284004 Spiked Sample (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	80 - 120	547		2.8	U	500	109		P
Barium	80 - 120	2120		75.3		2,000	102		P
Cadmium	80 - 120	54.4		0.42	U	50	109		P
Calcium	80 - 120	123000		23300		100,000	99.7		P
Chromium	80 - 120	204		0.648	B	200	102		P
Copper	80 - 120	257		4.35	B	250	101		P
Iron	80 - 120	1260		255		1,000	101		P
Magnesium	80 - 120	106000		7840		100,000	98.2		P
Mercury	80 - 120	1.06		0.03	B	1.00	103		CV
Nickel	80 - 120	497		0.749	B	500	99.3		P
Potassium	80 - 120	121000		11700		100,000	109		P
Sodium	80 - 120	342000		222000		100,000	120		P

FORM V (Part 1) - IN

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U. S. EPA -CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A567128

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Matrix (soil/water) : Water Level (low/med): _____

Initial Wt/Vol : 50 mL

% Solids for Sample : _____ Final Volume : 50 mL

Dilution : 1

Concentration Units (uG/L or mG/kG dry weight) : uG/L

Analyte	Control Limit %R	Q1284008 Spiked Sample (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	80 - 120	1930		2.9	U	2,000	96.5		P
Beryllium	80 - 120	46.6		0.097	U	50	93.2		P
Lead	80 - 120	483		1.4	U	500	96.6		P

FORM V (Part 1) - IN

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U. S. EPA -CLP

5A

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

EPA SAMPLE NO.

A567128

Lab Name: Heritage

Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Matrix (soil/water) : Water

Level (low/med): _____

Initial Wt/Vol : 50 mL

Final Volume : 50 mL

Dilution : 1

% Solids for Sample : _____

Concentration Units (uG/L or mG/kG dry weight) : uG/L

Analyte	Sample Result (SR)	Q1284004 Spiked Sample (SSR)	C	0 Spiked Duplicate Sample (SDS)	C	Spike Added (SA)	% RPD	Q	M
Antimony	2.8	109		110		500	0.913		P
Barium	75	102		103		2,000	0.976		P
Cadmium	0.42	109		110		50	0.913		P
Calcium	23000	99.7		101		100,000	1.3		P
Chromium	0.65	102		103		200	0.976		P
Copper	4.4	101		101		250	0		P
Iron	260	101		101		1,000	0		P
Magnesium	7800	98.2		99.2		100,000	1.01		P
Mercury	0.03	103		102		1.00	0.976		CV
Nickel	0.75	99.3		100		500	0.702		P
Potassium	12000	109		110		100,000	0.913		P
Sodium	220000	120		117		100,000	2.53		P

FORM V (Part 1) - IN

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U. S. EPA -CLP

5A

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

EPA SAMPLE NO.

A567128

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Matrix (soil/water) : Water Level (low/med): _____

Initial Wt/Vol : 50 mL

% Solids for Sample : _____ Final Volume : 50 mL

Dilution : 1

Concentration Units (uG/L or mG/kG dry weight) : uG/L

Analyte	Sample Result (SR)	Q1284008 Spiked Sample (SSR)	C	0 Spiked Duplicate Sample (SDS)	C	Spike Added (SA)	% RPD	Q	M
Arsenic	2.9	96.5		97		2,000	0.517		P
Beryllium	0.097	93.2		93.8		50	0.642		P
Lead	1.4	96.6		97.4		500	0.825		P

FORM V (Part 1) · IN

U. S. EPA -CLP
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LABORATORY CONTROL SAMPLE

Q1284003

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Solid LCS Source : _____

Aqueous LCS Source : SPEX

Analyte	Aqueous (uG/L) True	Found	%R	True	Found	C	Limits		%R
Antimony	5000	5,510	110.2						
Barium	20000	19,600	98						
Cadmium	500	545	109						
Calcium	100000	100,000	100						
Chromium	2000	2,040	102						
Copper	2500	2,580	103.2						
Iron	10000	10,100	101						
Magnesium	100000	99,700	99.7						
Mercury	2.00	2.10	105						
Nickel	5000	4,950	99						
Potassium	100000	102,000	102						
Sodium	100000	102,000	102						

FORM VII - IN

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U. S. EPA -CLP
7
LABORATORY CONTROL SAMPLE

Q1284007

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Solid LCS Source : ERA

Aqueous LCS Source : SPEX

Analyte	Aqueous (uG/L) True	Found	%R	True	Found	C	Limits		%R
Arsenic	500	501	100.2						
Beryllium	500	498	99.6						
Lead	500	501	100.2						

FORM VII - IN

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ICP SERIAL DILUTION

EPA SAMPLE NO.

A567128

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Matrix (soil/water) : Water Level (low/med): _____

Concentration Units (uG/L) : uG/L Dilution 1: 5

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q (1)	M
Antimony	2.8	U	2.8	U			P
Barium	75.3		76.8		2		P
Cadmium	0.42	U	0.42	U			P
Calcium	23300		23900		2.6		P
Chromium	0.648	B	1.46	B			P
Copper	4.35	B	5.3	B			P
Iron	255		258		1.2		P
Magnesium	7840		8150		4		P
Mercury							CV
Nickel	0.749	B	0.63	U			P
Potassium	11700		9770		16	E	P
Sodium	222000		229000		3.2		P

(1) - % Difference criteria 10%, if concentration > 50*IDL.

FORM IX - IN

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U. S. EPA -CLP

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TRACE ICP SERIAL DILUTION

EPA SAMPLE NO.

A567128

Lab Name: Heritage Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No.: _____

Matrix (soil/water) : Water Level (low/med): _____

Concentration Units (uG/L) : uG/L Dilution 1: 5

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q (1)	M
Arsenic	2.9	U	2.9	U			P
Beryllium	0.097	U	0.097	U			P
Lead	1.4	U	1.4	U			P

(1) - % Difference criteria 10%, if concentration > 50*IDL.

FORM IX - IN

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U. S. EPA - CLP
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STANDARD SOLUTIONS SOURCES

Lab Name: Heritage Environmental Services, LLC Contract_____

Analyte	CALIBRATION STANDARD	ICV	TRACE CCV	CCV	CRDL	MATRIX SPIKE	ICS	Method
Aluminum	INV	PE		INV		SPEX	PE	P
Antimony	INV	PE	SPEX	INV	PE	INV		P
Arsenic	INV	PE	SPEX	INV	PE	SPEX		P
Barium	INV	PE		INV		SPEX	PE	P
Beryllium	INV	PE	SPEX	INV	PE	SPEX	PE	P
Cadmium	INV	PE	SPEX	INV	PE	SPEX	PE	P
Calcium	INV	PE		INV		SPEX	PE	P
Chromium	INV	PE	SPEX	INV	PE	SPEX	PE	P
Cobalt	INV	PE	SPEX	INV	PE	SPEX	PE	P
Copper	INV	PE		INV	PE	SPEX	PE	P
Iron	INV	PE		INV		SPEX	PE	P
Lead	INV	PE	SPEX	INV	PE	SPEX	PE	P
Magnesium	INV	PE		INV		SPEX	PE	P
Manganese	INV	PE	SPEX	INV	PE	SPEX	PE	P
Mercury	INV	NIST		FISHER	FISHER	FISHER		CV
Nickel	INV	PE		INV	PE	SPEX	PE	P
Potassium	INV	PE		INV		SPEX		P
Selenium	INV	PE	SPEX	INV	PE	SPEX		P
Silver	INV	PE	PE	INV	PE	SPEX	PE	P
Sodium	INV	PE		INV		SPEX		P
Thallium	INV	PE	SPEX	INV	PE	SPEX		P
Vanadium	INV	PE	SPEX	INV	PE	SPEX	PE	P
Zinc	INV	PE		INV	PE	SPEX	PE	P
Titanium	INV	PE		INV		SPEX		P
Strontium	INV	PE		INV		SPEX		P
Molybdenum	INV	PE		INV		SPEX		P
Boron	INV	PE		INV		SPEX		P
Tin	INV	PE		INV		INV		P
Zirconium	INV	FISHER		INV		SPEX		P
Lithium	INV	PE		INV		SPEX		P
Silicon	INV	PE		INV		INV		P
Bismuth	INV	PE		INV		SPEX		P
Yttrium	INV	PE		INV		SPEX		P

PE = Perkin Elmer Pure
INV = Inorganic Ventures

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WATER METHOD DETECTION LIMITS, uG/L

Hotblock / Hotplate

Element	ICP-MS	Vista	Vista	ICAP-61	ICAP-61	GFAA	GFAA	CVAA	CVAA	CVAA
	#320	#334	#334	TRACE	TRACE	PE5100	PE5100	FIMS	FIMS	FIMS
	AAS	JPK	JJL	JPK	DAD	A	B	DAD	BMB	JSO
	Hotblock	Hotblock	Hotblock	Hotblock	Hotblock	Hotblock	Hotblock	Hotblock	Hotblock	Hotblock
Complete	10/18/00	9/7/01	9/13/01	8/14/00	9/20/01	2/25/00	9/13/01	12/13/00	2/23/01	6/14/01
Al	0.86	13	17							
B	1.4	11	11							
Sb	0.054	2.0	3.7	4.2	2.1		1.6			
As	0.47	4.0	5.1	2.8	3.3		2.0			
Ba	0.037	0.53	0.24							
Be	0.019	0.073	0.065	0.15	0.12					
Cd	0.033	0.37	0.39	0.15	0.26		0.098			
Ca		23	19							
Cr	0.085	2.2	1.0	2.2	0.86		0.99			
Co	0.018	0.40	0.49	1.1	0.97					
Cu	0.20	2.8	1.5			0.59	3.0			
Fe		3.8	4.0							
Pb	0.036	1.8	2.0	1.0	1.5	1.8	2.6			
Mg		3.6	4.4							
Mn	0.087	0.59	0.37	0.21	0.37					
Hg								0.022	0.019	0.019
Mo	0.038	0.99	0.75							
Ni	0.077	0.74	0.62							
K		3.8	2.8							
Li		0.98	1.1							
P										
Se	0.44	5.4	7.0	1.8	3.5		1.2			
Si		2.6	4.2							
Sr	0.017	1.1	1.0							
Sn	0.047	1.7	1.3							
Ag	0.027	0.74	0.37	1.8	1.5		0.24			
Na		7.9	9.6							
Th	0.021									
Ti	0.42	1.0	0.91							
Tl	0.024	3.6	2.9	2.8	3.5		0.52			
U	0.027									
V	0.46	0.68	0.58	0.83	1.0					
Zn	0.46	2.0	1.1							
Zr	0.43	1.4	1.2							
As prep							1.0			
Se prep						1.5				
Pb (DW)										

Water MDL

9/21/01

U. S. EPA -CLP

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Heritage Environmental Service, LLC Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No. _____

ICP ID Number : Vista ICP #334 Date: Jul 30, 2001
Flame AA ID Number : PE FIMS-CVAA
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	USEPA CRDL (uG/L)	Reporting Limits (uG/L)	Calibration Standard	IDL (uG/L)	M
Aluminum	237.312		200	50	10,000	4.7	P
Antimony	217.582		60	10	2,000	2.8	P
Arsenic	188.980		10	10	10,000	4.9	P
Barium	233.527		200	10	10,000	0.13	P
Beryllium	234.861		5	4	10,000	0.072	P
Bismuth							P
Boron	249.772			50	10,000	8.4	P
Cadmium	228.802		5	5	10,000	0.42	P
Calcium	315.887		5000	100	100,000	2.9	P
Chromium	267.716		10	10	10,000	0.26	P
Cobalt	231.160		50	10	10,000	0.65	P
Copper	324.754		25	20	10,000	0.63	P
Iron	261.382		100	25	10,000	2.9	P
Lead	220.353		3	10	10,000	1.5	P
Lithium	610.365			10	10,000	0.50	P
Magnesium	279.078		5000	100	100,000	2.6	P
Manganese	293.305		15	10	10,000	0.32	P
Mercury **	253.7		0.20	0.20	5.0	0.020	CV
Molybdenu	202.032			10	2,000	0.70	P
Nickel	221.648		40	10	10,000	0.63	P
Palladium	340.458			1	10,000	0.84	P
Potassium	728.181		5000	100	100,000	3.2	P
Selenium	196.026		5	10	10,000	5.8	P
Silicon	251.611			200	10,000	2.0	P
Silver	328.068		10	10	2,000	0.29	P
Sodium	589.592		5000	100	100,000	0.90	P
Sodium	568.821		5000		100,000	69	P
Strontium	216.596			10	10,000	0.60	P
Thallium	190.794		10	10	10,000	2.9	P
Tin	189.927			50	10,000	1.3	P
Titanium	322.284			10	10,000	0.67	P
Uranium							P
Vanadium	289.164		50	10	10,000	0.73	P
Yttrium				10			P
Zinc	206.200		20	20	10,000	1.6	P
Zirconium	257.147			10	10,000	0.44	P

Comments: **Mercury on 9/24/01 (Hotblock)

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: Heritage Environmental Services, LLC Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____

ICP ID Number : ICP#334 Date Apr 10, 2001

Analyte	Integ. Time (Sec.)	Concentration (uG/L)	M
Aluminum		500,000	P
Antimony		200,000	P
Arsenic		100,000	P
Barium		50,000	P
Beryllium		20,000	P
Boron		200,000	P
Cadmium		20,000	P
Calcium		500,000	P
Chromium		100,000	P
Cobalt		100,000	P
Copper		100,000	P
Iron		500,000	P
Lead		100,000	P
Lithium		50,000	P
Magnesium		1,000,000	P
Manganese		200,000	P
Mercury			P
Molybdenu		100,000	P
Nickel		100,000	P
Phosphorus			P
Potassium		150,000	P
Selenium		200,000	P
Silicon		50,000	P
Silver		5,000	P
Sodium - L		80,000	P
Sodium - H		500,000	P
Strontium		100,000	P
Thallium		100,000	P
Tin		100,000	P
Titanium		500,000	P
Uranium			P
Vanadium		100,000	P
Zinc		100,000	P
Zirconium		100,000	P

Comments: _____

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FORM XII - IN

U. S. EPA-CLP

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ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Heritage Environmental Services, LLC

ICP ID Number: ICP #334 Date: 2-Jul-01 Contract: _____

	Interelement Correction Factors for:												
Analyte	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
Ag 328.068	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Al 237.312	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00175753	-0.00030055	0.00000000	0.00000000	0.00000000	0.00000000	-0.00125178
As 188.980	0.00000000	1.00000000	0.00000485	0.00000000	0.00000000	0.00000000	0.00000000	0.00032629	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
B 249.772	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00015000	0.00000000	-0.00065885	0.00000000	0.00000000	0.00000000
Ba 233.527	0.00000000	0.00000000	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Be 234.861	0.00000000	0.00000000	0.00000000	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00019000	0.00000000	0.00000000	0.00000000
Ca 315.887	0.00032172	0.00000506	0.00000000	0.00000000	1.00000000	0.00000000	0.00478141	-0.00228929	0.00000000	-0.00002195	0.00000000	0.00000000	-0.00003585
Cd 228.802	0.00000000	-0.00169460	0.00000000	0.00000000	0.00000000	1.00000000	0.00012570	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Co 231.160	0.00000000	0.00000000	0.00005883	-0.00332606	0.00000293	0.00000000	1.00000000	0.00000000	-0.00001327	0.00008563	0.00000000	-0.00000068	0.00000000
Cr 267.716	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00000816
Cu 324.754	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00046369	-0.00008369	1.00000000	-0.00009000	0.00000000	0.00000000	0.00000000
Fe 261.382	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00022898	0.00032888	-0.00023198	1.00000000	0.00000000	0.00000000	-0.00031771
K 728.181	0.00000000	0.00000000	0.00002241	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	1.00000000	0.00000000	-0.00003920
Li 610.365	0.00000000	0.00000000	0.00000000	0.00000000	-0.00051400	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Mg 279.078	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00022480	0.00000000	1.00000000	-0.00074443
Mn 293.305	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00005769	0.00000000	0.00000000	0.00000000	0.00000000	1.00000000
Mo 202.032	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Na 568.821	0.00036438	0.00159043	-0.01408331	0.01046699	0.01103974	0.01000651	0.00454407	0.00144168	0.00201798	0.00040562	0.00000000	0.00000000	0.00086380
Na 589.592	0.00000000	0.00000000	0.02091370	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Ni 221.648	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00020205	-0.00047138	-0.00023646	0.00000000	0.00000000	0.00000000	0.00000000
Pb 220.353	0.00019500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00008517	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Sb 217.582	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00011700	0.00000000	0.00000000	0.00000000
Se 196.026	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00009000	0.00000000	0.00000000	0.00000000
Si 251.611	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00003943	0.00000000	0.00000000	0.00000000
Sn 189.927	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00011790	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Sr 216.596	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00006903	0.00023031	0.00000000	0.00000000	0.00000000
Ti 322.284	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00015216
Tl 190.794	-0.00001611	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00348804	0.00000000	0.00000000	-0.00013642	0.00000000	0.00000000	0.00050601
V 289.164	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00221619	0.00000000	0.00004111	0.00000000	0.00000000	-0.00293941
Zn 206.200	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00301333	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Zr 257.147	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00003763	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

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ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Heritage Environmental Services, LLC

ICP ID Number: ICP #334 Date: 2-Jul-01 Contract: _____

	Interelement Correction Factors for:											
Analyte	Mo	Na	Ni	Pb	Sb	Si	Sn	Sr	Ti	V	Zn	Zr
Ag 328.068	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000063	0.00299269
Al 237.312	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00406239
As 188.980	0.00031791	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00001243	0.00000000	0.00000000	0.00000000
B 249.772	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Ba 233.527	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00013182	0.00000000	0.00000000
Be 234.861	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Ca 315.887	0.00043357	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00018208	0.00243502	0.00000000	-0.00972800
Cd 228.802	0.00000000	0.00000000	0.00005907	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Co 231.160	0.00000000	0.00000000	0.00025609	0.00000000	0.00815273	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Cr 267.716	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Cu 324.754	0.00029489	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Fe 261.382	-0.00041943	0.00000000	0.00000000	-0.00815835	0.00000000	0.00000000	0.00000000	0.00000000	-0.00197151	0.00000000	0.00000000	0.00000000
K 728.181	0.00014288	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00137365	0.00000000	0.00000000	0.00000000
Li 610.365	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Mg 279.078	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Mn 293.305	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Mo 202.032	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Na 568.821	-0.04691328	1.00000000	0.00185415	0.00165872	0.00000000	0.00000000	0.00000000	0.00000000	0.00204829	0.00000000	0.00000000	0.01401101
Na 589.592	0.00000000	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Ni 221.648	0.00000000	0.00000000	1.00000000	0.00000000	0.00000000	0.00224011	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Pb 220.353	-0.00265755	0.00000000	0.00004364	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00006393	0.00001324
Sb 217.582	0.00000000	0.00000000	-0.00082502	-0.00048330	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Se 196.026	0.00000000	0.00000000	-0.00003712	-0.00004515	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00012921
Si 251.611	0.00000000	0.00000000	0.00002065	-0.00000655	0.00000000	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00048460	0.00000000
Sn 189.927	0.00000000	0.00000000	-0.00008490	-0.00002726	0.00000000	0.00000000	1.00000000	0.00000000	0.00038755	0.00000000	0.00000000	0.00039923
Sr 216.596	0.00000000	0.00000000	-0.00050717	-0.00000531	0.00000000	0.00000000	0.00000000	1.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Ti 322.284	0.00105338	0.00000000	0.00001183	0.00001159	0.00000000	0.00000000	0.00000000	0.00000000	1.00000000	0.00000000	0.00000000	0.00026970
Tl 190.794	-0.00202182	0.00000000	0.00000757	0.00002644	0.00000000	0.00000000	0.00000000	0.00000000	0.00143841	0.00215374	0.00000000	0.00000000
V 289.164	-0.00068345	0.00000000	0.00000464	0.00000598	0.00000000	0.00000000	0.00000000	0.00000000	-0.00018389	1.00000000	0.00000000	0.00109712
Zn 206.200	0.00050860	0.00000000	0.00002909	0.00002033	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	1.00000000	0.00000000
Zr 257.147	0.00000000	0.00000000	0.00000448	-0.00000320	0.00000000	0.00000000	0.00039381	0.00000000	-0.00086939	0.00000000	-0.00000299	1.00000000

U. S. EPA -CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Heritage Environmental Services, LLC Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____ SDG No. _____

ICP ID Number : TRACE Date: 7/10/01
Flame AA ID Number : _____
Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	USEPA CRDL (uG/L)	Laboratory Reporting Limits (uG/L)	High Calibration Standard	IDL (uG/L)	M
Aluminum	308.2				500,000	18	P
Antimony	206.8		5.0	5.0	500	2.1	P
Arsenic	189.0		10	5.0	500	2.9	P
Barium							
Beryllium	313.0			1.0	500	0.097	P
Cadmium	226.5		5.0	1.0	500	0.19	P
Calcium	317.9				500,000	17	P
Chromium	267.7			2.0	500	0.70	P
Cobalt	228.6			1.0	500	0.52	P
Copper							
Iron	271.4				200,000	13	P
Lead	220.3		3.0	5.0	500	1.4	P
Magnesiu	279.0				500,000	9.1	P
Manganese	257.6			2.0	500	0.44	P
Mercury							
Nickel							
Potassium							
Selenium	196.0		5.0	5.0	500	3.1	P
Silver	328.0			2.0	500	0.85	P
Sodium							
Thallium	190.8		10	10	500	3.0	P
Vanadium	292.4			1.0	500	0.73	P
Zinc							

Comments: _____

FORM X - IN

U. S. EPA -CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Heritage Environmental Services, LLC Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____

ICP ID Number : TRACE Date: Sep 06, 2001

Interelement Correction Factors for:								
Analyte	length (nm)	Co	Fe	Mg	Al	Mn	V	Cr
Aluminum	308.2		-7E-06					
Antimony	206.8		3.1E-05		0.000013		-0.00148	0.00573
Arsenic	189.0							
Barium								
Beryllium	313.0						0.000978	
Cadmium-1	226.5		0.00005		0.00002			
Calcium	317.9							
Chromium	267.7		-2E-06	0.000005		0.000197	0.000153	
Cobalt	228.6		1E-06		-0.000004			0.00021
Copper								
Iron	271.4							
Lead-1	220.3	-0.00469	0.0008		0.000502			
Magnesium	279.0							
Manganese	257.6				0.00002		0.001461	0.00102
Mercury								
Nickel								
Potassium								
Selenium-1	196.0		-0.00012					
Silver	328.0		-0.00031		-0.00003			
Sodium								
Thallium	190.8	0.00344	-0.00013		-0.000012		0.001857	
Vanadium	292.4		-3.4E-05					-0.00268
Cadmium-2	226.5		9.1E-05					
Lead-2	220.3			0.000008	-0.0003			
Selenium-2	196.0		-0.00035			0.00057		

Comments: Al and Fe IECs are generally run on a more frequent basis.

FORM XI (Part 1) - IN

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U. S. EPA -CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Heritage Environmental Services, LLC Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____

ICP ID Number : TRACE Date: Sep 06, 2001

Interelement Correction Factors for:								
Analyte	length (nm)		As	Sb	Ca	Tl	Cd	
Aluminum	308.2							
Antimony	206.8							
Arsenic	189.0							
Barium								
Beryllium	313.0							
Cadmium-1	226.5							
Calcium	317.9							
Chromium	267.7							
Cobalt	228.6		0.00013	0.001617		0.000484	-0.00045	
Copper								
Iron	271.4							
Lead-1	220.3				-0.000007			
Magnesium	279.0							
Manganese	257.6		0.00278	0.001617		0.012099		
Mercury								
Nickel								
Potassium								
Selenium-1	196.0							
Silver	328.0							
Sodium								
Thallium	190.8							
Vanadium	292.4							
Cadmium-2	226.5							
Lead-2	220.3							
Selenium-2	196.0							

Comments: Al and Fe IECs are generally run on a more frequent basis.

FORM XI (Part 2) - IN

U. S. EPA -CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: Heritage Environmental Services, LLC Contract : _____

Lab Code: _____ Case No. : _____ SAS No. : _____

ICP ID Number : TRACE Date Sep 16, 2001

Analyte	Integ. Time (Sec.)	Concentration (uG/L)	M
Aluminum	15	500,000	P
Antimony	15	50,000	P
Arsenic	15	10,000	P
Barium			
Beryllium	15	1,000	P
Cadmium	15	5,000	P
Calcium	15	500,000	P
Chromium	15	5,000	P
Cobalt	15	5,000	P
Copper			
Iron	15	500,000	P
Lead	15	10,000	P
Magnesiu	15	500,000	P
Manganese	15	5,000	P
Mercury			
Nickel			
Potassium			
Selenium	15	5,000	P
Silver	15	1,000	P
Sodium			
Thallium	15	10,000	P
Vanadium	15	5,000	P
Zinc			

Comments: _____

FORM XII - IN

MTO PREP SHEET Method: EPA 200.0

Prep Worksheet for Run: R420071 Instrument: 275 Page: 1

Analyst M/A/H #1747 Reviewed ___/___/___ #_____ Recorded ___/___/___ #_____

Date 9/25/01 Start 1000 Stop 1500 Date ___/___/___ Date ___/___/___

SAMPLE	TEST	Initial Wt/Vol	Final Volume	DUE	SUBMITTER	CONTAINER ID	AN_REP	ELEMENT
Q1284002	BLA02	50mL	50mL		MILLI-Q			
Q1284003	LCS				ICP-11157-2.5mL	SPIKES 0.5mL	11114 11158 11159	
Q1284004	SPI02				A567128			
Q1284005	DPS02				A567128			
[redacted]						BATCH LINE	ICP.0	Ag Cd Cr Cu Ni Pb Zn
[redacted]						OUTFALL001	ICP.0	Ag Cd Cr Cu Ni Pb Zn
[redacted]							ICP.0	Al Zn
A567128	P129.2.0			10-OCT	IDEM - OFFICE	DK27547	ICP.0	Ba Ca Cd Cr Cu Fe K Mg Na Ni Sb
	P129.2.0			10-OCT	IDEM - OFFICE		TRACE.0	As Be Pb
[redacted]						90301	ICP.0	Cr Cu Ni Zn
[redacted]						EPS	ICP.0	Cd Cr Cu Mo Ni Pb Zn
[redacted]						EPS	ICP.0	Cd Cr Cu Mo Ni Pb Zn
[redacted]						EPS	ICP.0	Cd Cr Cu Mo Ni Pb Zn
[redacted]		20 L				MICRO INK	ICP.0	Cd Cu Mo Ni Pb Zn
[redacted]		50 L					ICP.0	Al Zn
Q1284006	BLA02				MILLI-Q			
Q1284007	LCS				TRACE-11233-2.5mL			
Q1284008	SPI02				A567128			
Q1284009	DPS02				A567128			

COPY

HNO3 Fisher 1101060 H2O2 Fisher _____ HCL Fisher 4101010 Balance# _____

1+1 HNO3 _____ 1+1 HCl _____ HotBlock X HotPlate _____ WaterBath _____ Digestion Temperature ~95°C

(runprep.sql)

B3

MTO PREP SHEET Method: SW846-7470A

Prep Worksheet for Run: R420032 Instrument: 275 Page: 1

Analyst J, S, O #1703 Reviewed ___/___/___ #_____ Recorded ___/___/___ #_____

Date 9/24/01 Start 12:45 Stop 16:45 Date ___/___/___ Date ___/___/___

SAMPLE	TEST	Initial Wt/Vol	Final Volume	DUE	SUBMITTER	CONTAINER ID	AN_REP	ELEMENT
Q1283621	LCS	40ml	40ml		#11238	80µl		
Q1283622	BLA02							
Q1283623	SPI02				A567128	#11240 400µl		
Q1283624	DPS02				A567128			
A567128	P131.2.0			10-OCT	IDEM - OFFICE	DK 27547	CVAA.0	Hg
[redacted]						604 Test Well	CVAA.0	Hg
[redacted]						TK207 SP-C	CVAA.0	Hg
[redacted]						MW18C	CVAA.0	Hg
[redacted]						MW12	CVAA.0	Hg

HNO3 Fisher 1101060 H2O2 Fisher _____ ~~HCL~~ H_2SO_4 Fisher 319091 Balance# _____

1+1 HNO3_____ 1+1 HCl_____ HotBlock ✓ HotPlate_____ WaterBath_____ Digestion Temperature 95°

(runprep.sql)

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Blank (Blk) 9/25/01, 8:49:33 PM Rack 1, Tube 1

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-2.6397	3.4903	0.17111
Al	237.312	-1.8000	-2.4705	-0.61453
As	188.980	1.2876	-0.76179	-0.25853
B	249.772	142.16	141.44	147.73
Ba	233.527	87.582	86.775	89.845
Be	234.861	-5.1793	-3.3707	0.65238
Ca	315.887	369.62	380.86	381.34
Cd	228.802	-1.4573	1.0888	-1.0155
Co	231.160	8.9835	10.140	8.5656
Cr	267.716	5.7716	-1.3179	4.3585
Cu	324.754	31.766	37.496	38.163
Fe	261.382	10.285	10.761	10.974
K	728.181	99.226	105.03	118.93
Li	610.365	588.78	605.54	601.38
Mg	279.078	2.5053	1.0910	-0.42954
Mn	293.305	5.6513	0.91808	8.8660
Mo	202.032	11.689	14.096	12.477
Na	589.592	1196.6	1272.9	1484.2
Na	568.821	-341.26	-325.87	-328.44
Ni	221.648	0.47691	0.10290	-0.084559
Pb	220.353	-4.3017	-4.1736	0.68546
Sb	217.582	-1.2866	-3.8028	-0.051265
Se	196.026	0.29722	2.1542	0.16559
Si	251.611	53.205	50.167	54.289
Sn	189.927	1.3553	0.33751	1.4064
Sr	216.596	-0.44832	0.30285	-2.4535
Ti	322.284	72.035	76.369	71.130
Tl	190.794	-3.0816	1.0076	-0.64171
V	289.164	-1.6503	2.5595	-0.056757
Y	361.104	172845	174638	175255
Zn	206.200	3.9715	3.4315	2.8625
Zr	257.147	9.9820	12.526	10.447

El	Wavelen.	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag	328.068	0.000000	ppm	3.069	901.1	0.34055
Al	237.312	0.000000	ppm	0.940	57.7	-1.6283
As	188.980	0.000000	ppm	1.068	1198.9	0.089077
B	249.772	0.000000	ppm	3.442	2.4	143.78

CCV=S11223
DLS=S11243
CDL01=S11232
HMCS=STD2
ICS-A=S11230
ICS-AB=S11200

ICV01-19=S11135
ICV01-07=S11149
ICV01-31=S11231

STD2=S11174
MADE 09-06-01

STD3=S11136
MADE 08-28-01

STD4=S11224
MADE 09-18-01

STD3X=S11137

ICP #334
JPK #3506
010925JPKU
9-25-01

A567128

El	Wavelen.	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ba	233.527	0.000000	ppm	1.592	1.8	88.068
Be	234.861	0.000000	ppm	2.985	113.4	-2.6325
Ca	315.887	0.000000	ppm	6.637	1.8	377.27
Cd	228.802	0.000000	ppm	1.360	294.9	-0.46133
Co	231.160	0.000000	ppm	0.816	8.8	9.2298
Cr	267.716	0.000000	ppm	3.752	127.7	2.9374
Cu	324.754	0.000000	ppm	3.517	9.8	35.808
Fe	261.382	0.000000	ppm	0.353	3.3	10.673
K	728.181	0.000000	ppm	10.125	9.4	107.73
Li	610.365	0.000000	ppm	8.727	1.5	598.57
Mg	279.078	0.000000	ppm	1.468	139.0	1.0556
Mn	293.305	0.000000	ppm	3.998	77.7	5.1451
Mo	202.032	0.000000	ppm	1.228	9.6	12.754
Na	589.592	0.000000	ppm	148.996	11.3	1317.9
Na	568.821	0.000000	ppm	8.242	2.5	-331.86
Ni	221.648	0.000000	ppm	0.286	173.2	0.16508
Pb	220.353	0.000000	ppm	2.843	109.5	-2.5966
Sb	217.582	0.000000	ppm	1.912	111.6	-1.7135
Se	196.026	0.000000	ppm	1.112	127.5	0.87234
Si	251.611	0.000000	ppm	2.137	4.1	52.554
Sn	189.927	0.000000	ppm	0.603	58.4	1.0330
Sr	216.596	0.000000	ppm	1.425	164.5	-0.86633
Ti	322.284	0.000000	ppm	2.801	3.8	73.178
Tl	190.794	0.000000	ppm	2.057	227.3	-0.90525
V	289.164	0.000000	ppm	2.126	748.0	0.28416
Zn	206.200	0.000000	ppm	0.555	16.2	3.4219
Zr	257.147	0.000000	ppm	1.354	12.3	10.985

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.000000	174246	1252.081	0.7

BaCaCdCrCu
FeKMgNaNiSb

Standard 2 (Std) 9/25/01, 8:52:49 PM Rack 1, Tube 2

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	54270	54465	54530
Al	237.312	5809.4	5816.6	5807.4
As	188.980	3932.8	3943.5	3975.8
B	249.772	108925	107865	111432
Ba	233.527	348104	350498	351144
Be	234.861	525804	530071	531113

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El	Wavelen.	Replicates Intensity (c/s)		
Cd	228.802	75032	75602	75964
Co	231.160	56554	56982	57027
Cr	267.716	247856	249819	249999
Cu	324.754	321747	322366	321366
Fe	261.382	15136	15259	15283
Li	610.365	395510	399300	399623
Mn	293.305	108626	109375	109492
Ni	221.648	15083	15221	15226
Pb	220.353	16498	16616	16640
Se	196.026	2890.4	2903.2	2906.1
Sr	216.596	52032	52308	53021
Tl	190.794	4842.1	4872.9	4882.0
V	289.164	55985	56345	56347
Y	361.104	172656	173237	173147
Zn	206.200	10911	11015	11021
Zr	257.147	93985	94651	94751

El	Wavelen.	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag	328.068	2.0000	ppm	135.139	0.2	54422
Al	237.312	10.000	ppm	4.859	0.1	5811.2
As	188.980	10.000	ppm	22.341	0.6	3950.7
B	249.772	10.000	ppm	1831.948	1.7	109407
Ba	233.527	10.000	ppm	1601.317	0.5	349915
Be	234.861	10.000	ppm	2812.809	0.5	528996
Cd	228.802	10.000	ppm	469.613	0.6	75533
Co	231.160	10.000	ppm	260.948	0.5	56854
Cr	267.716	10.000	ppm	1188.478	0.5	249225
Cu	324.754	10.000	ppm	504.948	0.2	321827
Fe	261.382	10.000	ppm	78.887	0.5	15226
Li	610.365	10.000	ppm	2287.133	0.6	398144
Mn	293.305	10.000	ppm	469.723	0.4	109164
Ni	221.648	10.000	ppm	80.810	0.5	15177
Pb	220.353	10.000	ppm	76.029	0.5	16585
Se	196.026	10.000	ppm	8.361	0.3	2899.9
Sr	216.596	10.000	ppm	510.307	1.0	52454
Tl	190.794	10.000	ppm	20.944	0.4	4865.7
V	289.164	10.000	ppm	208.103	0.4	56226
Zn	206.200	10.000	ppm	61.552	0.6	10982
Zr	257.147	10.000	ppm	416.382	0.4	94462

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0000	173014	312.772	0.2

Standard 4 (Std) **9/25/01, 8:56:05 PM** **Rack 1, Tube 3**

El	Wavelen.	Replicates Intensity (c/s)		
Mo	202.032	8739.2	8822.4	8865.1
Sb	217.582	1245.7	1250.1	1251.3
Si	251.611	21089	21165	20957
Sn	189.927	8519.9	8527.4	8490.5
Ti	322.284	72693	72707	72848
Y	361.104	178493	178120	179183

El	Wavelen.	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Mo	202.032	2.0000	ppm	64.043	0.7	8808.9
Sb	217.582	2.0000	ppm	2.969	0.2	1249.0
Si	251.611	10.000	ppm	105.542	0.5	21070
Sn	189.927	10.000	ppm	19.536	0.2	8512.6
Ti	322.284	10.000	ppm	85.771	0.1	72749

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0323	178598	539.266	0.3

Standard 3 (Std) **9/25/01, 8:59:22 PM** **Rack 1, Tube 4**

El	Wavelen.	Replicates Intensity (c/s)		
K	728.181	81787	81218	80816
Na	589.592	846973	848384	845325
Na	568.821	2437.9	2392.2	2381.8
Y	361.104	176461	177043	178287

El	Wavelen.	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
K	728.181	10.000	ppm	487.670	0.6	81274
Na	589.592	10.000	ppm	1530.634	0.2	846894
Na	568.821	10.000	ppm	29.861	1.2	2404.0

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0246	177264	933.134	0.5

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Std 3 10 X (Std) 9/25/01, 9:02:39 PM Rack 1, Tube 5

El	Wavelen.	Replicates Intensity (c/s)		
Ca	315.887	515055	494074	499418
K	728.181	880413	841388	844646
Mg	279.078	91245	86787	87403
Na	589.592	9087702	8695721	8711986
Na	568.821	32598	30947	31020
Y	361.104	161322	166269	166005

El	Wavelen.	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ca	315.887	100.00	ppm	10903.051	2.2	502849
K	728.181	100.00	ppm	21652.426	2.5	855482
Mg	279.078	100.00	ppm	2415.877	2.7	88478
Na	589.592	100.00	ppm	221764.203	2.5	8831803
Na	568.821	100.00	ppm	933.090	3.0	31522

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.95098	164532	2783.061	1.7

Ag 328.068 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.34055	0.000000	0.000000	-	-
Standard 2		54422	2.0000	2.0000	0.000000	0.0

Curve Type: Linear Equation: y = 27210.8 x + 0.340549

Al 237.312 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.6283	0.000000	0.000000	-	-
Standard 2		5811.2	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 581.279 x + -1.62832

As 188.980 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.089077	0.000000	0.000000	-	-
Standard 2		3950.7	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 395.061 x + 0.0890774

B 249.772 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		143.78	0.000000	0.000000	-	-
Standard 2		109407	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 10926.4 x + 143.776

Ba 233.527 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		88.068	0.000000	0.000000	-	-
Standard 2		349915	10.000	10.000	0.000001	0.0

Curve Type: Linear Equation: y = 34982.7 x + 88.0675

Be 234.861 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.6325	0.000000	0.000000	-	-
Standard 2		528996	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 52899.9 x + -2.63254

Ca 315.887 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		377.27	0.000000	0.000000	-	-
Std 3 10 X		502849	100.00	100.00	0.000000	0.0

Curve Type: Linear Equation: y = 5024.72 x + 377.274

Cd 228.802 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.46133	0.000000	0.000000	-	-
Standard 2		75533	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 7553.3 x + -0.461331

Co 231.160 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.2298	0.000000	0.000000	-	-
Standard 2		56854	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 5684.5 x + 9.2298

Cr 267.716 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.9374	0.000000	0.000000	-	-
Standard 2		249225	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 24922.2 x + 2.9374

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Cu 324.754 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		35.808	0.000000	0.000000	-	-
Standard 2		321827	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 32179.1 x + 35.8083

Fe 261.382 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.673	0.000000	0.000000	-	-
Standard 2		15226	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 1521.52 x + 10.6732

K 728.181 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		107.73	0.000000	0.000000	-	-
Standard 3		81274	10.000	10.000	0.000000	0.0
Std 3 10 X		855482	100.00	100.00	0.000000	0.0

Curve Type: Quadratic Equation: y = 4.85689 x^2 + 8068.05 x + 107.729

Li 610.365 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		598.57	0.000000	0.000000	-	-
Standard 2		398144	10.000	10.000	0.000001	0.0

Curve Type: Linear Equation: y = 39754.6 x + 598.567

Mg 279.078 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.0556	0.000000	0.000000	-	-
Std 3 10 X		88478	100.00	100.00	0.000000	0.0

Curve Type: Linear Equation: y = 884.774 x + 1.05558

Mn 293.305 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.1451	0.000000	0.000000	-	-
Standard 2		109164	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 10915.9 x + 5.14511

Mo 202.032 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.754	0.000000	0.000000	-	-
Standard 4		8808.9	2.0000	2.0000	0.000000	0.0

Curve Type: Linear Equation: y = 4398.07 x + 12.7541

Na 589.592 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1317.9	0.000000	0.000000	-	-
Standard 3		846894	10.000	10.000	0.000000	0.0
Std 3 10 X		8831803	100.00	100.00	0.000000	0.0

Curve Type: Quadratic Equation: y = 41.6358 x^2 + 84141.3 x + 1317.9

Na 568.821 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-331.86	0.000000	1.5438	-	-
Standard 3		2404.0	10.000	10.000	0.000000	0.0
Std 3 10 X		31522	100.00	100.00	0.000000	0.0

Curve Type: Linear Equation: y = 323.53 x + -831.332

Ni 221.648 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.16508	0.000000	0.000000	-	-
Standard 2		15177	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 1517.64 x + 0.165083

Pb 220.353 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.5966	0.000000	0.000000	-	-
Standard 2		16585	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 1658.76 x + -2.59661

Sb 217.582 Calibration (ppm) 9/25/01, 9:02:39 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.7135	0.000000	0.000000	-	-
Standard 4		1249.0	2.0000	2.0000	0.000000	0.0

Curve Type: Linear Equation: y = 625.372 x + -1.71354

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Se 196.026 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.87234	0.000000	0.000000	-	-
Standard 2		2899.9	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 289.902 x + 0.872337

Si 251.611 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		52.554	0.000000	0.000000	-	-
Standard 4		21070	10.000	10.000	0.000001	0.0

Curve Type: Linear Equation: y = 2101.78 x + 52.5536

Sn 189.927 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.0330	0.000000	0.000000	-	-
Standard 4		8512.6	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 851.156 x + 1.03305

Sr 216.596 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.86633	0.000000	0.000000	-	-
Standard 2		52454	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 5245.47 x + -0.866326

Ti 322.284 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		73.178	0.000000	0.000000	-	-
Standard 4		72749	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 7267.62 x + 73.1779

Tl 190.794 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.90525	0.000000	0.000000	-	-
Standard 2		4865.7	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 486.658 x + -0.905253

V 289.164 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.28416	0.000000	0.000000	-	-
Standard 2		56226	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 5622.53 x + 0.284156

Zn 206.200 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.4219	0.000000	0.000000	-	-
Standard 2		10982	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 1097.91 x + 3.42185

Zr 257.147 Calibration (ppm) 9/25/01, 9:02:39 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.985	0.000000	0.000000	-	-
Standard 2		94462	10.000	10.000	0.000000	0.0

Curve Type: Linear Equation: y = 9445.13 x + 10.9849

CCV (CCV) 9/25/01, 9:05:56 PM **Rack 1, Tube 6**

El	Wavelen.	Replicates Intensity (c/s)			
Ag	328.068	26823	26765	26807	
Al	237.312	2915.7	2903.3	2924.4	
As	188.980	1968.8	1963.1	1964.7	
B	249.772	22347	22364	22433	
Ba	233.527	171723	171091	171182	
Be	234.861	267002	266363	265644	
Ca	315.887	245354	244230	244244	
Cd	228.802	38010	37840	37891	
Co	231.160	27840	27668	27769	
Cr	267.716	121797	121348	121557	
Cu	324.754	158163	158397	157969	
Fe	261.382	7358.3	7335.3	7343.1	
K	728.181	437036	436680	434684	
Li	610.365	197711	197083	196773	
Mg	279.078	42027	41930	41878	
Mn	293.305	53684	53498	53552	
Mo	202.032	4375.4	4393.6	4403.9	
Na	589.592	4470630	4455348	4462559	
Na	568.821	14418	14381	14352	
Ni	221.648	7398.1	7368.9	7378.4	
Pb	220.353	8104.7	8069.7	8080.1	
Sb	217.582	642.76	639.11	637.72	
Se	196.026	1425.9	1433.1	1425.2	
Si	251.611	10815	10784	10794	

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El	Wavelen.	Replicates Intensity (c/s)		
Sn	189.927	4211.5	4198.7	4194.6
Sr	216.596	25850	25637	25714
Ti	322.284	36137	35827	35821
Tl	190.794	2366.8	2361.9	2366.7
V	289.164	27669	27587	27593
Y	361.104	168305	169418	169437
Zn	206.200	5422.9	5375.5	5392.6
Zr	257.147	46860	46687	46799

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.97301	ppm	0.001090	0.1	26798	0.97301 ppm	Y 361.104	97.30066
Al	237.312	4.9984	ppm	0.018226	0.4	2914.5	4.9984 ppm	Y 361.104	99.96865
As	188.980	4.9735	ppm	0.007412	0.1	1965.6	4.9735 ppm	Y 361.104	99.47025
B	249.772	2.0386	ppm	0.004165	0.2	22382	2.0386 ppm	Y 361.104	101.93107
Ba	233.527	4.8951	ppm	0.009759	0.2	171332	4.8951 ppm	Y 361.104	97.90204
Be	234.861	5.0356	ppm	0.012848	0.3	266336	5.0356 ppm	Y 361.104	100.71128
Ca	315.887	48.622	ppm	0.12838	0.3	244609	48.622 ppm	Y 361.104	97.24381
Cd	228.802	5.0274	ppm	0.011593	0.2	37913	5.0274 ppm	Y 361.104	100.54825
Co	231.160	4.8889	ppm	0.015182	0.3	27759	4.8889 ppm	Y 361.104	97.77851
Cr	267.716	4.8778	ppm	0.009024	0.2	121567	4.8778 ppm	Y 361.104	97.55509
Cu	324.754	4.9171	ppm	0.006661	0.1	158176	4.9171 ppm	Y 361.104	98.34202
Fe	261.382	4.8643	ppm	0.007697	0.2	7345.6	4.8643 ppm	Y 361.104	97.28677
K	728.181	52.385	ppm	0.14782	0.3	436133	52.385 ppm	Y 361.104	104.77048
Li	610.365	4.9786	ppm	0.012024	0.2	197189	4.9786 ppm	Y 361.104	99.57159
Mg	279.078	47.407	ppm	0.085362	0.2	41945	47.407 ppm	Y 361.104	94.81351
Mn	293.305	4.9078	ppm	0.008766	0.2	53578	4.9078 ppm	Y 361.104	98.15610
Mo	202.032	0.99549	ppm	0.003286	0.3	4391.0	0.99549 ppm	Y 361.104	99.54856
Na	589.592	51.610	ppm	0.086437	0.2	4462846	51.610 ppm	Y 361.104	103.22038
Ni	221.648	4.8577	ppm	0.009835	0.2	7381.8	4.8577 ppm	Y 361.104	97.15434
Pb	220.353	4.8774	ppm	0.010825	0.2	8084.8	4.8774 ppm	Y 361.104	97.54857
Sb	217.582	1.0324	ppm	0.004161	0.4	639.86	1.0324 ppm	Y 361.104	103.24300
Se	196.026	4.9229	ppm	0.015070	0.3	1428.0	4.9229 ppm	Y 361.104	98.45893
Si	251.611	5.1159	ppm	0.007495	0.1	10798	5.1159 ppm	Y 361.104	102.31872
Sn	189.927	4.9330	ppm	0.010378	0.2	4201.6	4.9330 ppm	Y 361.104	98.65900
Sr	216.596	4.9071	ppm	0.020528	0.4	25734	4.9071 ppm	Y 361.104	98.14294
Ti	322.284	4.9320	ppm	0.024866	0.5	35928	4.9320 ppm	Y 361.104	98.64014
Tl	190.794	4.8321	ppm	0.005803	0.1	2365.1	4.8321 ppm	Y 361.104	96.64184
V	289.164	4.9292	ppm	0.008106	0.2	27617	4.9292 ppm	Y 361.104	98.58414
Zn	206.200	4.8993	ppm	0.021883	0.4	5397.0	4.8993 ppm	Y 361.104	97.98583

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Zr	257.147	4.9538	ppm	0.009312	0.2	46782	4.9538 ppm	Y 361.104	99.07518

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.97711	169053	647.945	0.4

BLA01 (CCB) **9/25/01, 9:09:12 PM** **Rack 1, Tube 7**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-3.2102	-0.29750	-7.5458
Al	237.312	-2.4733	-3.1935	0.97139
As	188.980	1.9146	2.0323	1.6507
B	249.772	523.33	526.01	512.34
Ba	233.527	89.050	87.002	95.011
Be	234.861	-0.17929	-1.9572	5.0016
Ca	315.887	382.91	389.01	397.89
Cd	228.802	-1.7522	-3.4491	2.0738
Co	231.160	11.872	10.244	8.6622
Cr	267.716	7.0985	11.998	8.4954
Cu	324.754	28.387	34.664	37.434
Fe	261.382	7.1026	11.436	10.857
K	728.181	95.587	98.077	112.00
Li	610.365	627.26	637.01	605.50
Mg	279.078	3.5805	3.0622	6.8089
Mn	293.305	7.2903	7.3788	9.2270
Mo	202.032	21.205	17.467	15.122
Na	589.592	1214.5	1439.8	1651.2
Na	568.821	-309.16	-334.16	-308.71
Ni	221.648	0.88527	-1.4789	1.2949
Pb	220.353	0.33853	-4.0142	-0.20125
Sb	217.582	0.31174	-0.21619	-0.84653
Se	196.026	1.7524	1.7989	2.1006
Si	251.611	62.086	55.744	58.238
Sn	189.927	0.052507	2.0989	1.7601
Sr	216.596	1.0400	2.0961	0.72538
Ti	322.284	63.477	78.382	69.709
Tl	190.794	2.8987	2.4569	1.8667
V	289.164	5.3110	-2.1315	-1.6690
Y	361.104	175832	175250	177688
Zn	206.200	3.6221	4.2806	4.1582
Zr	257.147	12.278	13.230	14.011

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	-0.000149u	ppm	0.000134	90.3	-3.6825	-0.000149 ppm	Y 361.104	-0.00015
Al	237.312	0.000106u	ppm	0.003830	3620.4	-1.5652	0.000106 ppm	Y 361.104	0.00011
As	188.980	0.004503	ppm	0.000495	11.0	1.8659	0.004503 ppm	Y 361.104	0.00450
B	249.772	0.034467	ppm	0.000663	1.9	520.86	0.034467 ppm	Y 361.104	0.03447
Ba	233.527	0.000065u	ppm	0.000119	182.0	90.854	0.000065 ppm	Y 361.104	0.00007
Be	234.861	0.000063	ppm	0.000068	108.1	0.95503	0.000063 ppm	Y 361.104	0.00006
Ca	315.887	0.002511	ppm	0.001498	59.7	389.94	0.002511 ppm	Y 361.104	0.00251
Cd	228.802	-0.000070u	ppm	0.000375	535.6	-1.0425	-0.000070 ppm	Y 361.104	-0.00007
Co	231.160	0.000188u	ppm	0.000282	150.4	10.259	0.000188 ppm	Y 361.104	0.00019
Cr	267.716	0.000251	ppm	0.000101	40.3	9.1972	0.000251 ppm	Y 361.104	0.00025
Cu	324.754	-0.000071u	ppm	0.000144	201.5	33.495	-0.000071 ppm	Y 361.104	-0.00007
Fe	261.382	-0.000567u	ppm	0.001546	272.8	9.7986	-0.000567 ppm	Y 361.104	-0.00057
K	728.181	-0.000717u	ppm	0.001092	152.2	101.92	-0.000717 ppm	Y 361.104	-0.00072
Li	610.365	0.000646	ppm	0.000406	62.8	623.26	0.000646 ppm	Y 361.104	0.00065
Mg	279.078	0.003880	ppm	0.002295	59.1	4.4839	0.003880 ppm	Y 361.104	0.00388
Mn	293.305	0.000258	ppm	0.000100	38.8	7.9654	0.000258 ppm	Y 361.104	0.00026
Mo	202.032	0.001177	ppm	0.000698	59.3	17.931	0.001177 ppm	Y 361.104	0.00118
Na	589.592	0.001415u	ppm	0.002595	183.4	1435.2	0.001415 ppm	Y 361.104	0.00142
Ni	221.648	0.000006u	ppm	0.000987	15213.9	0.23375	0.000006 ppm	Y 361.104	0.00001
Pb	220.353	0.000755u	ppm	0.001430	189.4	-1.2923	0.000755 ppm	Y 361.104	0.00076
Sb	217.582	0.002334	ppm	0.000927	39.7	-0.25033	0.002334 ppm	Y 361.104	0.00233
Se	196.026	0.003494	ppm	0.000652	18.7	1.8840	0.003494 ppm	Y 361.104	0.00349
Si	251.611	0.002920	ppm	0.001520	52.1	58.689	0.002920 ppm	Y 361.104	0.00292
Sn	189.927	0.000317u	ppm	0.001289	406.2	1.3038	0.000317 ppm	Y 361.104	0.00032
Sr	216.596	0.000415	ppm	0.000137	33.0	1.2872	0.000415 ppm	Y 361.104	0.00042
Ti	322.284	-0.000353u	ppm	0.001030	291.7	70.523	-0.000353 ppm	Y 361.104	-0.00035
Tl	190.794	0.006779	ppm	0.001064	15.7	2.4074	0.006779 ppm	Y 361.104	0.00678
V	289.164	0.000018u	ppm	0.000742	4177.2	0.50350	0.000018 ppm	Y 361.104	0.00002
Zn	206.200	0.000571	ppm	0.000319	55.9	4.0203	0.000571 ppm	Y 361.104	0.00057
Zr	257.147	0.000231	ppm	0.000092	39.8	13.173	0.000231 ppm	Y 361.104	0.00023

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0187	176257	1272.807	0.7

CCV (CCV) 9/25/01, 9:12:28 PM Rack 1, Tube 8

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	26635	26777	26832
Al	237.312	2910.0	2923.6	2928.5
As	188.980	1953.0	1955.4	1967.0

El	Wavelen.	Replicates Intensity (c/s)		
B	249.772	22019	22241	22493
Ba	233.527	169807	170804	171762
Be	234.861	261964	263896	265815
Ca	315.887	242447	243964	245751
Cd	228.802	37617	37765	37977
Co	231.160	27490	27672	27817
Cr	267.716	120558	121275	122099
Cu	324.754	156282	156578	158181
Fe	261.382	7300.4	7326.2	7366.5
K	728.181	431990	434182	434254
Li	610.365	195154	196150	197287
Mg	279.078	41520	41807	42016
Mn	293.305	53064	53350	53716
Mo	202.032	4332.7	4386.1	4413.8
Na	589.592	4442833	4450838	4470407
Na	568.821	14301	14335	14304
Ni	221.648	7318.6	7346.3	7394.4
Pb	220.353	8038.9	8081.8	8107.7
Sb	217.582	629.72	636.53	625.62
Se	196.026	1420.4	1434.5	1438.2
Si	251.611	10700	10783	10813
Sn	189.927	4161.9	4183.5	4206.2
Sr	216.596	25551	25689	25825
Ti	322.284	35727	35667	36082
Tl	190.794	2356.8	2368.1	2385.6
V	289.164	27395	27530	27671
Y	361.104	170041	170215	169453
Zn	206.200	5337.7	5400.8	5430.2
Zr	257.147	46385	46678	46866

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.97122	ppm	0.003722	0.4	26748	0.97122 ppm	Y 361.104	97.12212
Al	237.312	5.0093	ppm	0.016497	0.3	2920.7	5.0093 ppm	Y 361.104	100.18549
As	188.980	4.9555	ppm	0.018978	0.4	1958.5	4.9555 ppm	Y 361.104	99.11067
B	249.772	2.0267	ppm	0.021666	1.1	22251	2.0267 ppm	Y 361.104	101.33257
Ba	233.527	4.8796	ppm	0.027947	0.6	170791	4.8796 ppm	Y 361.104	97.59269
Be	234.861	4.9894	ppm	0.036399	0.7	263892	4.9894 ppm	Y 361.104	99.78703
Ca	315.887	48.511	ppm	0.32918	0.7	244054	48.511 ppm	Y 361.104	97.02261
Cd	228.802	5.0106	ppm	0.023971	0.5	37786	5.0106 ppm	Y 361.104	100.21133

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Co	231.160	4.8713	ppm	0.028877	0.6	27660	4.8713 ppm	Y 361.104	97.42698
Cr	267.716	4.8675	ppm	0.030950	0.6	121311	4.8675 ppm	Y 361.104	97.34920
Cu	324.754	4.8810	ppm	0.031757	0.7	157014	4.8810 ppm	Y 361.104	97.61938
Fe	261.382	4.8547	ppm	0.021880	0.5	7331.0	4.8547 ppm	Y 361.104	97.09401
K	728.181	52.075	ppm	0.15013	0.3	433475	52.075 ppm	Y 361.104	104.15057
Li	610.365	4.9536	ppm	0.026856	0.5	196197	4.9536 ppm	Y 361.104	99.07124
Mg	279.078	47.221	ppm	0.28149	0.6	41781	47.221 ppm	Y 361.104	94.44228
Mn	293.305	4.8893	ppm	0.029907	0.6	53377	4.8893 ppm	Y 361.104	97.78676
Mo	202.032	0.99243	ppm	0.009373	0.9	4377.6	0.99243 ppm	Y 361.104	99.24341
Na	589.592	51.518	ppm	0.16039	0.3	4454693	51.518 ppm	Y 361.104	103.03659
Ni	221.648	4.8388	ppm	0.025265	0.5	7353.1	4.8388 ppm	Y 361.104	96.77617
Pb	220.353	4.8722	ppm	0.020927	0.4	8076.1	4.8722 ppm	Y 361.104	97.44392
Sb	217.582	1.0176	ppm	0.008817	0.9	630.62	1.0176 ppm	Y 361.104	101.76393
Se	196.026	4.9333	ppm	0.032522	0.7	1431.1	4.9333 ppm	Y 361.104	98.66647
Si	251.611	5.1004	ppm	0.027818	0.5	10765	5.1004 ppm	Y 361.104	102.00776
Sn	189.927	4.9121	ppm	0.026028	0.5	4183.9	4.9121 ppm	Y 361.104	98.24257
Sr	216.596	4.8984	ppm	0.026151	0.5	25688	4.8984 ppm	Y 361.104	97.96882
Ti	322.284	4.9179	ppm	0.030836	0.6	35825	4.9179 ppm	Y 361.104	98.35746
Tl	190.794	4.8426	ppm	0.029834	0.6	2370.2	4.8426 ppm	Y 361.104	96.85126
V	289.164	4.9141	ppm	0.024512	0.5	27532	4.9141 ppm	Y 361.104	98.28232
Zn	206.200	4.8925	ppm	0.043055	0.9	5389.5	4.8925 ppm	Y 361.104	97.85065
Zr	257.147	4.9390	ppm	0.025689	0.5	46643	4.9390 ppm	Y 361.104	98.78069

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.98202	169903	399.311	0.2

BLA01 (CCB) **9/25/01, 9:15:44 PM** **Rack 1, Tube 9**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	1.7474	-1.6811	3.8942
Al	237.312	-1.9630	-2.1695	-1.9773
As	188.980	2.0626	1.3126	1.0573
B	249.772	532.79	524.88	519.39
Ba	233.527	86.628	78.880	86.627
Be	234.861	-1.1550	-6.0807	1.5846
Ca	315.887	382.74	387.08	384.44
Cd	228.802	-1.6836	1.5387	1.8852
Co	231.160	8.0216	5.8295	9.7204
Cr	267.716	11.188	8.3787	9.7095
Cu	324.754	35.182	41.131	31.373

El	Wavelen.	Replicates Intensity (c/s)		
Fe	261.382	8.6709	9.2840	6.2219
K	728.181	106.01	107.01	115.19
Li	610.365	630.25	628.76	611.77
Mg	279.078	-0.32045	2.4654	0.61212
Mn	293.305	12.334	1.9416	-0.19406
Mo	202.032	22.795	19.121	15.463
Na	589.592	1137.4	1205.8	1405.9
Na	568.821	-309.42	-308.54	-331.21
Ni	221.648	0.98365	2.1432	0.016692
Pb	220.353	-1.4269	-1.7216	-3.5281
Sb	217.582	0.027929	-1.9468	-1.0249
Se	196.026	1.3584	1.7188	1.5933
Si	251.611	60.699	57.228	59.021
Sn	189.927	0.95262	1.4672	0.66686
Sr	216.596	0.42029	-2.1775	1.9239
Ti	322.284	72.988	75.868	71.088
Tl	190.794	3.3809	0.38680	0.095589
V	289.164	1.9363	5.3765	2.9751
Y	361.104	177038	178519	178645
Zn	206.200	3.7284	5.1169	4.3690
Zr	257.147	11.721	8.2715	11.955

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.000036u	ppm	0.000103	287.4	1.3202	0.000036 ppm	Y 361.104	0.00004
Al	237.312	-0.000704u	ppm	0.000198	28.2	-2.0366	-0.000704 ppm	Y 361.104	-0.00070
As	188.980	0.003520	ppm	0.001323	37.6	1.4775	0.003520 ppm	Y 361.104	0.00352
B	249.772	0.034936	ppm	0.000617	1.8	525.69	0.034936 ppm	Y 361.104	0.03494
Ba	233.527	-0.000115u	ppm	0.000128	111.1	84.045	-0.000115 ppm	Y 361.104	-0.00012
Be	234.861	0.000009u	ppm	0.000073	783.1	-1.8837	0.000009 ppm	Y 361.104	0.00001
Ca	315.887	0.001479	ppm	0.000435	29.4	384.75	0.001479 ppm	Y 361.104	0.00148
Cd	228.802	0.000143u	ppm	0.000261	182.0	0.58013	0.000143 ppm	Y 361.104	0.00014
Co	231.160	-0.000228u	ppm	0.000343	150.8	7.8572	-0.000228 ppm	Y 361.104	-0.00023
Cr	267.716	0.000274	ppm	0.000056	20.6	9.7586	0.000274 ppm	Y 361.104	0.00027
Cu	324.754	0.000003u	ppm	0.000153	5591.9	35.895	0.000003 ppm	Y 361.104	0.00000
Fe	261.382	-0.001713u	ppm	0.001065	62.2	8.0589	-0.001713 ppm	Y 361.104	-0.00171
K	728.181	0.000209u	ppm	0.000624	298.1	109.40	0.000209 ppm	Y 361.104	0.00021
Li	610.365	0.000654	ppm	0.000258	39.5	623.59	0.000654 ppm	Y 361.104	0.00065
Mg	279.078	-0.000149u	ppm	0.001603	1076.1	0.91902	-0.000149 ppm	Y 361.104	-0.00015
Mn	293.305	-0.000042u	ppm	0.000614	1471.5	4.6938	-0.000042 ppm	Y 361.104	-0.00004

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Mo	202.032	0.001449	ppm	0.000834	57.5	19.126	0.001449 ppm	Y 361.104	0.00145
Na	589.592	-0.000785u	ppm	0.001658	211.1	1249.7	-0.000785 ppm	Y 361.104	-0.00079
Ni	221.648	0.000543u	ppm	0.000702	129.3	1.0479	0.000543 ppm	Y 361.104	0.00054
Pb	220.353	0.000194u	ppm	0.000686	354.4	-2.2255	0.000194 ppm	Y 361.104	0.00019
Sb	217.582	0.001165u	ppm	0.001580	135.6	-0.98125	0.001165 ppm	Y 361.104	0.00117
Se	196.026	0.002366	ppm	0.000631	26.7	1.5568	0.002366 ppm	Y 361.104	0.00237
Si	251.611	0.003059	ppm	0.000826	27.0	58.983	0.003059 ppm	Y 361.104	0.00306
Sn	189.927	-0.000006u	ppm	0.000477	8283.4	1.0289	-0.000006 ppm	Y 361.104	-0.00001
Sr	216.596	0.000181u	ppm	0.000396	218.9	0.055550	0.000181 ppm	Y 361.104	0.00018
Ti	322.284	0.000031u	ppm	0.000331	1077.0	73.315	0.000031 ppm	Y 361.104	0.00003
Tl	190.794	0.004479	ppm	0.003737	83.4	1.2878	0.004479 ppm	Y 361.104	0.00448
V	289.164	0.000538	ppm	0.000314	58.3	3.4293	0.000538 ppm	Y 361.104	0.00054
Zn	206.200	0.000921	ppm	0.000633	68.7	4.4048	0.000921 ppm	Y 361.104	0.00092
Zr	257.147	-0.000036u	ppm	0.000218	608.6	10.649	-0.000036 ppm	Y 361.104	-0.00004

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0292	178067	893.792	0.5

1CV01-19 (1CV) **9/25/01, 9:19:01 PM** **Rack 1, Tube 10**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	43.632	50.708	45.070
Al	237.312	2.5757	0.19456	3.2595
As	188.980	380.35	380.61	378.84
B	249.772	432.44	437.47	433.41
Ba	233.527	97.834	96.552	90.794
Be	234.861	51980	52220	53824
Ca	315.887	5413.7	5443.3	5459.4
Cd	228.802	7645.5	7692.5	7664.1
Co	231.160	5840.7	5867.5	5879.5
Cr	267.716	25204	25365	25475
Cu	324.754	31967	32250	31982
Fe	261.382	1538.3	1544.8	1551.4
K	728.181	60.287	69.898	80.774
Li	610.365	38800	38997	39033
Mg	279.078	865.40	866.95	867.38
Mn	293.305	10890	10936	10976
Mo	202.032	4462.5	4502.4	4529.5
Na	589.592	723.26	738.95	842.59
Na	568.821	-322.47	-314.83	-325.47

El	Wavelen.	Replicates Intensity (c/s)		
Ni	221.648	1533.4	1539.8	1541.4
Pb	220.353	1713.7	1726.0	1722.9
Sb	217.582	632.63	636.28	647.27
Se	196.026	280.31	282.76	285.54
Si	251.611	134.88	137.37	137.28
Sn	189.927	2.0490	1.1713	0.44938
Sr	216.596	5380.0	5377.3	5428.9
Ti	322.284	7285.0	7301.1	7343.5
Tl	190.794	502.76	508.27	508.08
V	289.164	5675.4	5690.9	5712.3
Y	361.104	176473	176892	177310
Zn	206.200	1145.0	1156.1	1156.2
Zr	257.147	9444.3	9505.5	9550.0

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	-0.000696	ppm	0.000137	19.8	46.470	-0.000696 ppm	Y 361.104	-
Al	237.312	0.002511	ppm	0.002768	110.2	2.0099	0.002511 ppm	Y 361.104	-
As	188.980	0.96092	ppm	0.002425	0.3	379.93	0.96092 ppm	Y 361.104	96.09225
B	249.772	0.027293	ppm	0.000244	0.9	434.44	0.027293 ppm	Y 361.104	-
Ba	233.527	0.000104	ppm	0.000107	103.3	95.060	0.000104 ppm	Y 361.104	-
Be	234.861	0.99596	ppm	0.018955	1.9	52675	0.99596 ppm	Y 361.104	99.59578
Ca	315.887	1.0103	ppm	0.004622	0.5	5438.8	1.0103 ppm	Y 361.104	101.03110
Cd	228.802	1.0167	ppm	0.003134	0.3	7667.3	1.0167 ppm	Y 361.104	101.66715
Co	231.160	1.0259	ppm	0.003494	0.3	5862.6	1.0259 ppm	Y 361.104	102.59060
Cr	267.716	1.0170	ppm	0.005474	0.5	25348	1.0170 ppm	Y 361.104	101.69801
Cu	324.754	0.99575	ppm	0.004957	0.5	32067	0.99575 ppm	Y 361.104	99.57465
Fe	261.382	1.0178	ppm	0.004311	0.4	1544.8	1.0178 ppm	Y 361.104	101.77919
K	728.181	-0.005903u	ppm	0.001270	21.5	70.320	-0.005903 ppm	Y 361.104	-
Li	610.365	0.96526	ppm	0.003157	0.3	38943	0.96526 ppm	Y 361.104	96.52563
Mg	279.078	0.97864	ppm	0.001174	0.1	866.58	0.97864 ppm	Y 361.104	97.86417
Mn	293.305	1.0012	ppm	0.003928	0.4	10934	1.0012 ppm	Y 361.104	100.11768
Mo	202.032	1.0198	ppm	0.007661	0.8	4498.1	1.0198 ppm	Y 361.104	101.98493
Na	589.592	-0.006513u	ppm	0.000771	11.8	768.27	-0.006513 ppm	Y 361.104	-
Ni	221.648	1.0141	ppm	0.002806	0.3	1538.2	1.0141 ppm	Y 361.104	101.41254
Pb	220.353	1.0415	ppm	0.003858	0.4	1720.8	1.0415 ppm	Y 361.104	104.15089
Sb	217.582	1.0255	ppm	0.012188	1.2	638.73	1.0255 ppm	Y 361.104	102.54594
Se	196.026	0.97273	ppm	0.009017	0.9	282.87	0.97273 ppm	Y 361.104	97.27307
Si	251.611	0.040710	ppm	0.000672	1.7	136.51	0.040710 ppm	Y 361.104	-
Sn	189.927	-0.000214u	ppm	0.000941	439.5	1.2232	-0.000214 ppm	Y 361.104	-

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Sr	216.596	1.0290	ppm	0.005541	0.5	5395.4	1.0290 ppm	Y 361.104	102.89766
Ti	322.284	0.99468	ppm	0.004159	0.4	7309.9	0.99468 ppm	Y 361.104	99.46832
Tl	190.794	1.0376	ppm	0.006433	0.6	506.37	1.0376 ppm	Y 361.104	103.76328
V	289.164	1.0165	ppm	0.003297	0.3	5692.8	1.0165 ppm	Y 361.104	101.65498
Zn	206.200	1.0434	ppm	0.005864	0.6	1152.4	1.0434 ppm	Y 361.104	104.34039
Zr	257.147	1.0053	ppm	0.005622	0.6	9499.9	1.0053 ppm	Y 361.104	100.53476

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0224	176892	418.219	0.2

1CV01-07 (1CV) **9/25/01, 9:22:18 PM** **Rack 1, Tube 11**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	13170	12930	13215
Al	237.312	582.28	581.13	583.43
As	188.980	0.63456	0.70803	-0.36012
B	249.772	11139	11182	11294
Ba	233.527	35378	34902	35454
Be	234.861	-0.98052	-5.1822	-0.077453
Ca	315.887	367.58	368.29	379.54
Cd	228.802	0.075358	0.80081	1.8071
Co	231.160	11.509	11.230	10.606
Cr	267.716	12.749	7.4463	12.458
Cu	324.754	40.121	33.045	38.650
Fe	261.382	11.320	11.188	11.859
K	728.181	78752	79142	79757
Li	610.365	583.14	610.32	626.85
Mg	279.078	-1.5252	1.6889	2.4703
Mn	293.305	5.2181	4.4651	0.18946
Mo	202.032	21.315	18.950	17.726
Na	589.592	86095	86246	86789
Na	568.821	-43.577	-28.858	-44.230
Ni	221.648	17.185	15.329	14.977
Pb	220.353	0.48066	-1.5833	-1.6973
Sb	217.582	-0.17290	-0.78011	-0.51941
Se	196.026	0.24068	0.066611	0.075163
Si	251.611	10452	10456	10566
Sn	189.927	1662.8	1670.5	1691.0
Sr	216.596	-1.8296	-1.4018	-0.15059
Ti	322.284	71.339	68.982	74.904

El	Wavelen.	Replicates Intensity (c/s)		
Tl	190.794	1.2667	1.3074	4.2969
V	289.164	4.4471	-3.4165	-0.62523
Y	361.104	178615	179669	178168
Zn	206.200	2.1011	3.4996	3.1061
Zr	257.147	45.163	33.141	37.196

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.48160	ppm	0.005628	1.2	13105	0.48160 ppm	Y 361.104	96.32082
Al	237.312	1.0045	ppm	0.001978	0.2	582.28	1.0045 ppm	Y 361.104	100.45277
As	188.980	0.000605u	ppm	0.001510	249.7	0.32749	0.000605 ppm	Y 361.104	-
B	249.772	1.0123	ppm	0.007317	0.7	11205	1.0123 ppm	Y 361.104	101.23391
Ba	233.527	1.0050	ppm	0.008557	0.9	35244	1.0050 ppm	Y 361.104	100.49654
Be	234.861	0.000006u	ppm	0.000051	853.7	-2.0801	0.000006 ppm	Y 361.104	-
Ca	315.887	-0.001348u	ppm	0.001336	99.0	371.81	-0.001348 ppm	Y 361.104	-
Cd	228.802	0.000179	ppm	0.000115	64.3	0.89443	0.000179 ppm	Y 361.104	-
Co	231.160	0.000285	ppm	0.000081	28.5	11.115	0.000285 ppm	Y 361.104	-
Cr	267.716	0.000319	ppm	0.000120	37.5	10.885	0.000319 ppm	Y 361.104	-
Cu	324.754	0.000046u	ppm	0.000116	252.5	37.272	0.000046 ppm	Y 361.104	-
Fe	261.382	0.000524	ppm	0.000234	44.6	11.455	0.000524 ppm	Y 361.104	-
K	728.181	9.7480	ppm	0.062070	0.6	79217	9.7480 ppm	Y 361.104	97.48005
Li	610.365	0.000229u	ppm	0.000555	242.9	606.77	0.000229 ppm	Y 361.104	-
Mg	279.078	-0.000196u	ppm	0.002393	1222.3	0.87801	-0.000196 ppm	Y 361.104	-
Mn	293.305	-0.000170u	ppm	0.000248	145.9	3.2909	-0.000170 ppm	Y 361.104	-
Mo	202.032	0.001495	ppm	0.000415	27.7	19.331	0.001495 ppm	Y 361.104	-
Na	589.592	0.99167	ppm	0.004331	0.4	86377	0.99167 ppm	Y 361.104	99.16656
Ni	221.648	0.000575	ppm	0.000782	135.9	15.831	0.000575 ppm	Y 361.104	-
Pb	220.353	0.000755	ppm	0.000739	97.9	-0.93331	0.000755 ppm	Y 361.104	-
Sb	217.582	0.001958	ppm	0.000487	24.9	-0.49081	0.001958 ppm	Y 361.104	-
Se	196.026	-0.002564u	ppm	0.000338	13.2	0.12748	-0.002564 ppm	Y 361.104	-
Si	251.611	4.9667	ppm	0.030642	0.6	10491	4.9667 ppm	Y 361.104	99.33342
Sn	189.927	1.9665	ppm	0.017118	0.9	1674.8	1.9665 ppm	Y 361.104	98.32290
Sr	216.596	-0.000040u	ppm	0.000166	410.9	-1.1273	-0.000040 ppm	Y 361.104	-
Ti	322.284	-0.000187u	ppm	0.000410	219.9	71.742	-0.000187 ppm	Y 361.104	-
Tl	190.794	0.006553	ppm	0.003571	54.5	2.2904	0.006553 ppm	Y 361.104	-
V	289.164	-0.000051u	ppm	0.000709	1384.1	0.13514	-0.000051 ppm	Y 361.104	-
Zn	206.200	-0.000448u	ppm	0.000657	146.6	2.9023	-0.000448 ppm	Y 361.104	-
Zr	257.147	0.002268	ppm	0.000648	28.5	38.500	0.002268 ppm	Y 361.104	-

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El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0335	178817	770.369	0.4

ICV01-31 (ICV) **9/25/01, 9:25:34 PM** **Rack 1, Tube 12**

El	Wavelen.	Replicates Intensity (c/s)			
Ag	328.068	2.0661	5.0852	2.0431	
Al	237.312	-2.6548	-7.0428	1.7374	
As	188.980	0.073117	-0.19603	0.28121	
B	249.772	407.41	414.50	418.66	
Ba	233.527	90.877	96.729	103.03	
Be	234.861	-1.5510	4.2946	0.62124	
Ca	315.887	99136	99781	99668	
Cd	228.802	0.42980	-0.64961	0.076339	
Co	231.160	9.3654	9.9259	9.4906	
Cr	267.716	3.0183	6.1658	10.640	
Cu	324.754	32.731	26.872	41.488	
Fe	261.382	7.1781	8.6333	10.432	
K	728.181	170195	170193	170330	
Li	610.365	308.53	320.21	310.97	
Mg	279.078	16969	17025	17027	
Mn	293.305	7.3852	4.1333	5.8788	
Mo	202.032	8.3664	7.7866	7.0660	
Na	589.592	1779857	1775942	1774335	
Na	568.821	5386.6	5299.3	5333.4	
Ni	221.648	0.27032	-0.74382	1.6554	
Pb	220.353	0.77544	-3.4840	-0.80406	
Sb	217.582	-0.22728	-0.12087	-1.1610	
Se	196.026	-0.20503	-0.47627	-0.10266	
Si	251.611	59.937	59.069	59.993	
Sn	189.927	1.4633	2.2360	0.62080	
Sr	216.596	6.5926	3.0255	0.20983	
Ti	322.284	64.087	74.405	65.674	
Tl	190.794	1.2171	0.35958	0.82010	
V	289.164	4.1876	-4.3172	7.4093	
Y	361.104	177773	177064	178043	
Zn	206.200	5.9723	4.1485	3.0429	
Zr	257.147	11.198	11.250	11.178	

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.000100	ppm	0.000064	64.4	3.0648	0.000100 ppm	Y 361.104	-
Al	237.312	-0.001766u	ppm	0.007552	427.7	-2.6534	-0.001766 ppm	Y 361.104	-
As	188.980	-0.000085u	ppm	0.000606	709.2	0.052764	-0.000085 ppm	Y 361.104	-
B	249.772	0.024670	ppm	0.000520	2.1	413.52	0.024670 ppm	Y 361.104	-
Ba	233.527	0.000252	ppm	0.000174	69.0	96.879	0.000252 ppm	Y 361.104	-
Be	234.861	0.000066	ppm	0.000056	84.3	1.1216	0.000066 ppm	Y 361.104	-
Ca	315.887	19.733	ppm	0.068601	0.3	99528	19.733 ppm	Y 361.104	98.66342
Cd	228.802	0.000054u	ppm	0.000073	135.8	-0.047825	0.000054 ppm	Y 361.104	-
Co	231.160	0.000030	ppm	0.000052	171.9	9.5940	0.000030 ppm	Y 361.104	-
Cr	267.716	0.000147	ppm	0.000154	104.3	6.6079	0.000147 ppm	Y 361.104	-
Cu	324.754	-0.000065u	ppm	0.000229	353.1	33.697	-0.000065 ppm	Y 361.104	-
Fe	261.382	-0.001258u	ppm	0.001071	85.2	8.7480	-0.001258 ppm	Y 361.104	-
K	728.181	20.826	ppm	0.009523	0.0	170240	20.826 ppm	Y 361.104	104.12998
Li	610.365	0.006431u	ppm	0.000155	2.4	313.23	0.006431 ppm	Y 361.104	-
Mg	279.078	19.221	ppm	0.037213	0.2	17007	19.221 ppm	Y 361.104	96.10318
Mn	293.305	0.000060u	ppm	0.000149	250.5	5.7991	0.000060 ppm	Y 361.104	-
Mo	202.032	-0.001140u	ppm	0.000148	13.0	7.7397	-0.001140 ppm	Y 361.104	-
Na	589.592	20.884	ppm	0.033071	0.2	1776711	20.884 ppm	Y 361.104	104.42162
Ni	221.648	0.000111u	ppm	0.000794	714.4	0.39397	0.000111 ppm	Y 361.104	-
Pb	220.353	0.000823u	ppm	0.001298	157.6	-1.1709	0.000823 ppm	Y 361.104	-
Sb	217.582	0.001930	ppm	0.000915	47.4	-0.50306	0.001930 ppm	Y 361.104	-
Se	196.026	-0.003906u	ppm	0.000666	17.1	-0.26132	-0.003906 ppm	Y 361.104	-
Si	251.611	0.003385	ppm	0.000247	7.3	59.666	0.003385 ppm	Y 361.104	-
Sn	189.927	0.000477u	ppm	0.000949	198.8	1.4401	0.000477 ppm	Y 361.104	-
Sr	216.596	0.000794	ppm	0.000610	76.8	3.2760	0.000794 ppm	Y 361.104	-
Ti	322.284	-0.000690u	ppm	0.000765	110.7	68.055	-0.000690 ppm	Y 361.104	-
Tl	190.794	0.003470	ppm	0.000882	25.4	0.79893	0.003470 ppm	Y 361.104	-
V	289.164	0.000358u	ppm	0.001078	301.1	2.4266	0.000358 ppm	Y 361.104	-
Zn	206.200	0.000907u	ppm	0.001347	148.5	4.3879	0.000907 ppm	Y 361.104	-
Zr	257.147	0.000023	ppm	0.000004	17.4	11.209	0.000023 ppm	Y 361.104	-

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0267	177627	505.884	0.3

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BLA01 (CCB) **9/25/01, 9:28:51 PM** **Rack 1, Tube 13**

El	Wavelen.	Replicates Intensity (c/s)			
Ag	328.068	0.58550	1.1478	-7.5981	
Al	237.312	-1.7382	-4.6860	-4.1632	
As	188.980	0.33813	-0.75548	1.8534	

El	Wavelen.	Replicates Intensity (c/s)		
B	249.772	394.71	406.60	407.70
Ba	233.527	85.903	88.004	88.567
Be	234.861	-0.82216	-3.9161	0.70248
Ca	315.887	374.80	371.78	386.50
Cd	228.802	1.4978	0.62301	2.9491
Co	231.160	7.6103	9.7543	8.9327
Cr	267.716	6.0428	7.7161	7.5955
Cu	324.754	25.279	34.200	31.351
Fe	261.382	8.5173	8.7659	9.4369
K	728.181	80.028	91.281	104.68
Li	610.365	569.27	609.33	609.44
Mg	279.078	1.0602	-0.98772	2.8494
Mn	293.305	7.4387	5.2637	2.5660
Mo	202.032	1.4944	4.6287	3.0025
Na	589.592	1094.8	1162.2	1354.0
Na	568.821	-336.52	-294.28	-327.69
Ni	221.648	-0.48716	1.1999	-0.021223
Pb	220.353	3.9414	-4.7578	-1.2047
Sb	217.582	0.077020	1.1459	-2.0034
Se	196.026	-0.33397	0.20409	1.3669
Si	251.611	53.923	53.870	55.645
Sn	189.927	0.70308	0.54888	2.5966
Sr	216.596	-0.61446	-3.0612	-4.7943
Ti	322.284	68.305	75.208	67.205
Tl	190.794	-1.6252	0.73065	-1.5509
V	289.164	1.3227	-0.28847	-2.9652
Y	361.104	175429	175669	175947
Zn	206.200	2.1565	2.5362	3.5843
Zr	257.147	5.4546	9.7798	7.8910

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	-0.000084u	ppm	0.000180	215.0	-1.9549	-0.000084 ppm	Y 361.104	-0.00008
Al	237.312	-0.003271u	ppm	0.002706	82.7	-3.5291	-0.003271 ppm	Y 361.104	-0.00327
As	188.980	0.000993u	ppm	0.003316	334.0	0.47869	0.000993 ppm	Y 361.104	0.00099
B	249.772	0.023708	ppm	0.000659	2.8	403.00	0.023708 ppm	Y 361.104	0.02371
Ba	233.527	-0.000016u	ppm	0.000040	243.3	87.491	-0.000016 ppm	Y 361.104	-0.00002
Be	234.861	0.000020u	ppm	0.000044	226.4	-1.3453	0.000020 ppm	Y 361.104	0.00002
Ca	315.887	0.000074u	ppm	0.001548	2101.3	377.69	0.000074 ppm	Y 361.104	0.00007
Cd	228.802	0.000286	ppm	0.000156	54.5	1.6900	0.000286 ppm	Y 361.104	0.00029

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Co	231.160	-0.000075u	ppm	0.000190	253.6	8.7658	-0.000075 ppm	Y 361.104	-0.00008
Cr	267.716	0.000168	ppm	0.000037	22.3	7.1181	0.000168 ppm	Y 361.104	0.00017
Cu	324.754	-0.000171u	ppm	0.000142	82.9	30.277	-0.000171 ppm	Y 361.104	-0.00017
Fe	261.382	-0.001152u	ppm	0.000313	27.2	8.9067	-0.001152 ppm	Y 361.104	-0.00115
K	728.181	-0.001947u	ppm	0.001530	78.6	91.997	-0.001947 ppm	Y 361.104	-0.00195
Li	610.365	-0.000041u	ppm	0.000583	1409.7	596.01	-0.000041 ppm	Y 361.104	-0.00004
Mg	279.078	-0.000087u	ppm	0.002170	2496.2	0.97395	-0.000087 ppm	Y 361.104	-0.00009
Mn	293.305	-0.000005u	ppm	0.000224	4081.2	5.0895	-0.000005 ppm	Y 361.104	-0.00001
Mo	202.032	-0.002208u	ppm	0.000356	16.1	3.0419	-0.002208 ppm	Y 361.104	-0.00221
Na	589.592	-0.001334u	ppm	0.001598	119.7	1203.7	-0.001334 ppm	Y 361.104	-0.00133
Ni	221.648	0.000008u	ppm	0.000574	7032.5	0.23051	0.000008 ppm	Y 361.104	0.00001
Pb	220.353	0.001121u	ppm	0.002637	235.3	-0.67371	0.001121 ppm	Y 361.104	0.00112
Sb	217.582	0.002318u	ppm	0.002561	110.5	-0.26018	0.002318 ppm	Y 361.104	0.00232
Se	196.026	-0.001582u	ppm	0.002999	189.6	0.41235	-0.001582 ppm	Y 361.104	-0.00158
Si	251.611	0.000916	ppm	0.000480	52.5	54.479	0.000916 ppm	Y 361.104	0.00092
Sn	189.927	0.000293u	ppm	0.001340	457.6	1.2828	0.000293 ppm	Y 361.104	0.00029
Sr	216.596	-0.000368u	ppm	0.000400	108.7	-2.8233	-0.000368 ppm	Y 361.104	-0.00037
Ti	322.284	-0.000389u	ppm	0.000597	153.5	70.239	-0.000389 ppm	Y 361.104	-0.00039
Tl	190.794	0.000153u	ppm	0.002752	1803.6	-0.81515	0.000153 ppm	Y 361.104	0.00015
V	289.164	-0.000189u	ppm	0.000385	204.3	-0.64365	-0.000189 ppm	Y 361.104	-0.00019
Zn	206.200	-0.000576u	ppm	0.000674	116.9	2.7590	-0.000576 ppm	Y 361.104	-0.00058
Zr	257.147	-0.000348u	ppm	0.000230	66.0	7.7085	-0.000348 ppm	Y 361.104	-0.00035

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0154	175682	259.486	0.1

DLS (CRI) **9/25/01, 9:32:08 PM** **Rack 1, Tube 14**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	271.88	262.62	271.83
Al	237.312	27.404	26.580	27.601
As	188.980	19.524	17.285	17.900
B	249.772	922.97	917.94	929.65
Ba	233.527	444.83	437.88	443.48
Be	234.861	207.92	206.89	210.09
Ca	315.887	889.95	873.94	892.33
Cd	228.802	35.190	35.561	40.208
Co	231.160	70.368	67.954	64.590
Cr	267.716	254.81	261.23	266.94
Cu	324.754	677.05	666.21	687.63

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El	Wavelen.	Replicates Intensity (c/s)		
Fe	261.382	46.785	50.125	46.649
K	728.181	888.46	876.04	873.11
Li	610.365	983.20	978.08	1001.3
Mg	279.078	86.248	86.507	87.520
Mn	293.305	110.23	111.53	115.46
Mo	202.032	46.533	46.217	47.946
Na	589.592	9135.4	9067.2	9290.7
Na	568.821	-271.55	-278.27	-285.25
Ni	221.648	15.656	16.420	15.660
Pb	220.353	15.029	15.491	16.026
Sb	217.582	7.0034	8.0666	4.6267
Se	196.026	3.3475	5.0634	4.7033
Si	251.611	476.07	471.94	478.52
Sn	189.927	43.421	43.466	43.815
Sr	216.596	50.217	54.587	52.781
Ti	322.284	139.33	141.97	139.27
Tl	190.794	4.5241	4.0488	4.6157
V	289.164	53.037	62.724	58.961
Y	361.104	176541	178541	177136
Zn	206.200	28.841	27.030	27.067
Zr	257.147	95.052	97.950	99.676

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.009843	ppm	0.000196	2.0	268.78	0.009843 ppm	Y 361.104	98.43279
Al	237.312	0.049549	ppm	0.000932	1.9	27.195	0.049549 ppm	Y 361.104	99.09894
As	188.980	0.045935	ppm	0.002929	6.4	18.236	0.045935 ppm	Y 361.104	91.86989
B	249.772	0.071364	ppm	0.000538	0.8	923.52	0.071364 ppm	Y 361.104	142.72737
Ba	233.527	0.010118	ppm	0.000105	1.0	442.07	0.010118 ppm	Y 361.104	101.18244
Be	234.861	0.003987	ppm	0.000031	0.8	208.30	0.003987 ppm	Y 361.104	-
Ca	315.887	0.10113	ppm	0.001990	2.0	885.41	0.10113 ppm	Y 361.104	101.12653
Cd	228.802	0.005036	ppm	0.000370	7.4	36.986	0.005036 ppm	Y 361.104	-
Co	231.160	0.010218	ppm	0.000511	5.0	67.637	0.010218 ppm	Y 361.104	102.18458
Cr	267.716	0.010354	ppm	0.000243	2.4	260.99	0.010354 ppm	Y 361.104	103.54469
Cu	324.754	0.019931	ppm	0.000333	1.7	676.97	0.019931 ppm	Y 361.104	99.65388
Fe	261.382	0.024537	ppm	0.001294	5.3	47.853	0.024537 ppm	Y 361.104	98.14714
K	728.181	0.095615	ppm	0.001010	1.1	879.20	0.095615 ppm	Y 361.104	95.61535
Li	610.365	0.009876	ppm	0.000307	3.1	987.52	0.009876 ppm	Y 361.104	98.76291
Mg	279.078	0.096864	ppm	0.000760	0.8	86.758	0.096864 ppm	Y 361.104	96.86384
Mn	293.305	0.009826	ppm	0.000249	2.5	112.41	0.009826 ppm	Y 361.104	98.26084

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Mo	202.032	0.007764	ppm	0.000209	2.7	46.899	0.007764 ppm	Y 361.104	77.63519
Na	589.592	0.093084	ppm	0.001361	1.5	9164.4	0.093084 ppm	Y 361.104	93.08382
Ni	221.648	0.009959	ppm	0.000290	2.9	15.912	0.009959 ppm	Y 361.104	99.59032
Pb	220.353	0.010895	ppm	0.000301	2.8	15.515	0.010895 ppm	Y 361.104	108.95358
Sb	217.582	0.013248	ppm	0.002816	21.3	6.5656	0.013248 ppm	Y 361.104	132.48401
Se	196.026	0.012072	ppm	0.003121	25.9	4.3714	0.012072 ppm	Y 361.104	120.71853
Si	251.611	0.20124	ppm	0.001583	0.8	475.51	0.20124 ppm	Y 361.104	100.61813
Sn	189.927	0.049973	ppm	0.000254	0.5	43.567	0.049973 ppm	Y 361.104	99.94504
Sr	216.596	0.010182	ppm	0.000419	4.1	52.529	0.010182 ppm	Y 361.104	101.82130
Ti	322.284	0.009225	ppm	0.000212	2.3	140.19	0.009225 ppm	Y 361.104	92.25434
Tl	190.794	0.010817	ppm	0.000625	5.8	4.3962	0.010817 ppm	Y 361.104	108.16936
V	289.164	0.010324	ppm	0.000869	8.4	58.241	0.010324 ppm	Y 361.104	103.24401
Zn	206.200	0.022060	ppm	0.000943	4.3	27.646	0.022060 ppm	Y 361.104	110.30009
Zr	257.147	0.009156	ppm	0.000247	2.7	97.559	0.009156 ppm	Y 361.104	91.55715

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0254	177406	1026.812	0.6

CDL01 (CRI) **9/25/01, 9:35:26 PM** **Rack 1, Tube 15**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	553.57	566.17	558.71
Al	237.312	-0.28514	1.2985	-2.3709
As	188.980	9.0849	7.8661	8.5679
B	249.772	342.98	350.38	359.05
Ba	233.527	85.076	92.629	86.337
Be	234.861	536.96	537.66	535.42
Ca	315.887	385.36	387.90	382.67
Cd	228.802	76.765	80.221	76.911
Co	231.160	604.94	602.23	606.87
Cr	267.716	529.81	532.58	535.53
Cu	324.754	1674.6	1633.4	1660.6
Fe	261.382	12.431	12.174	8.7465
K	728.181	59.917	49.191	57.165
Li	610.365	621.31	633.89	618.52
Mg	279.078	2.3629	0.98481	1.2106
Mn	293.305	345.75	346.90	339.67
Mo	202.032	2.5483	1.7612	1.6329
Na	589.592	410.78	392.67	386.96
Na	568.821	-333.17	-310.85	-318.98

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El	Wavelen.	Replicates Intensity (c/s)		
Ni	221.648	124.05	124.29	125.08
Pb	220.353	169.26	171.49	169.42
Sb	217.582	77.624	78.486	75.756
Se	196.026	2.9958	3.6024	4.8513
Si	251.611	51.492	49.253	48.224
Sn	189.927	0.21528	1.5783	2.1289
Sr	216.596	1.4743	0.39937	-0.51680
Ti	322.284	68.243	68.473	65.983
Tl	190.794	8.2330	9.6365	10.332
V	289.164	580.38	586.25	573.50
Y	361.104	175776	176505	176419
Zn	206.200	49.621	50.665	53.269
Zr	257.147	15.869	13.516	9.4092

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.020549	ppm	0.000233	1.1	559.48	0.020549 ppm	Y 361.104	102.74268
Al	237.312	0.001876u	ppm	0.003166	168.8	-0.45252	0.001876 ppm	Y 361.104	-
As	188.980	0.021306	ppm	0.001548	7.3	8.5063	0.021306 ppm	Y 361.104	106.53038
B	249.772	0.018934	ppm	0.000736	3.9	350.80	0.018934 ppm	Y 361.104	-
Ba	233.527	-0.000011u	ppm	0.000116	1019.0	88.014	-0.000011 ppm	Y 361.104	-
Be	234.861	0.010191	ppm	0.000022	0.2	536.68	0.010191 ppm	Y 361.104	101.90525
Ca	315.887	0.000967	ppm	0.000520	53.8	385.31	0.000967 ppm	Y 361.104	-
Cd	228.802	0.010402	ppm	0.000259	2.5	77.966	0.010402 ppm	Y 361.104	104.02277
Co	231.160	0.10397	ppm	0.000410	0.4	604.68	0.10397 ppm	Y 361.104	103.96868
Cr	267.716	0.021254	ppm	0.000115	0.5	532.64	0.021254 ppm	Y 361.104	106.27204
Cu	324.754	0.050406	ppm	0.000651	1.3	1656.2	0.050406 ppm	Y 361.104	100.81219
Fe	261.382	0.001031u	ppm	0.001352	131.1	11.117	0.001031 ppm	Y 361.104	-
K	728.181	-0.006478u	ppm	0.000690	10.7	55.424	-0.006478 ppm	Y 361.104	-
Li	610.365	0.000678	ppm	0.000206	30.4	624.57	0.000678 ppm	Y 361.104	-
Mg	279.078	0.000548u	ppm	0.000835	152.5	1.5194	0.000548 ppm	Y 361.104	-
Mn	293.305	0.031052	ppm	0.000356	1.1	344.11	0.031052 ppm	Y 361.104	103.50697
Mo	202.032	-0.002450u	ppm	0.000113	4.6	1.9808	-0.002450 ppm	Y 361.104	-
Na	589.592	-0.010924u	ppm	0.000148	1.4	396.80	-0.010924 ppm	Y 361.104	-
Ni	221.648	0.081909	ppm	0.000357	0.4	124.47	0.081909 ppm	Y 361.104	102.38635
Pb	220.353	0.10405	ppm	0.000753	0.7	170.06	0.10405 ppm	Y 361.104	104.05410
Sb	217.582	0.12643	ppm	0.002231	1.8	77.289	0.12643 ppm	Y 361.104	105.36044
Se	196.026	0.010167	ppm	0.003263	32.1	3.8165	0.010167 ppm	Y 361.104	101.67415
Si	251.611	-0.001349u	ppm	0.000795	58.9	49.656	-0.001349 ppm	Y 361.104	-
Sn	189.927	0.000333u	ppm	0.001157	347.6	1.3075	0.000333 ppm	Y 361.104	-

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Sr	216.596	0.000294	ppm	0.000190	64.7	0.45231	0.000294 ppm	Y 361.104	-
Ti	322.284	-0.000755u	ppm	0.000189	25.1	67.566	-0.000755 ppm	Y 361.104	-
Tl	190.794	0.020612	ppm	0.002197	10.7	9.4006	0.020612 ppm	Y 361.104	103.06086
V	289.164	0.10320	ppm	0.001135	1.1	580.04	0.10320 ppm	Y 361.104	103.20141
Zn	206.200	0.043473	ppm	0.001711	3.9	51.185	0.043473 ppm	Y 361.104	108.68184
Zr	257.147	0.000205u	ppm	0.000346	169.2	12.931	0.000205 ppm	Y 361.104	-

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0186	176233	398.227	0.2

HMCS (ICV) **9/25/01, 9:38:41 PM** **Rack 1, Tube 16**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	54255	54374	58942
Al	237.312	5842.0	5846.1	6400.8
As	188.980	3919.9	3928.9	4171.3
B	249.772	108929	109829	111336
Ba	233.527	348316	349937	383828
Be	234.861	523917	524729	574209
Ca	315.887	136.85	134.35	121.69
Cd	228.802	75532	75798	82500
Co	231.160	56656	57125	62371
Cr	267.716	248883	250309	274821
Cu	324.754	320754	320355	348626
Fe	261.382	15152	15258	16702
K	728.181	90.979	86.197	90.531
Li	610.365	393928	395533	432789
Mg	279.078	-3.8599	-4.3332	-7.8266
Mn	293.305	109063	109605	120054
Mo	202.032	4.0120	-0.17585	3.0154
Na	589.592	37762	37332	40861
Na	568.821	-337.37	-316.34	-334.51
Ni	221.648	15111	15246	16693
Pb	220.353	16573	16697	18236
Sb	217.582	6.6080	11.393	15.646
Se	196.026	2879.2	2900.0	3147.3
Si	251.611	228.48	243.57	272.15
Sn	189.927	6.5592	6.4046	4.0649
Sr	216.596	52370	52709	56394
Ti	322.284	83.483	82.231	93.070

UB

El	Wavelen.	Replicates Intensity (c/s)		
Tl	190.794	4853.5	4881.4	5329.7
V	289.164	56000	56267	61549
Y	361.104	171842	172873	163766
Zn	206.200	11079	11177	12278
Zr	257.147	94243	94789	103578

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	2.0282	ppm	0.098206	4.8	55857	2.0282 ppm	Y 361.104	101.40842
Al	237.312	10.338	ppm	0.55302	5.3	6029.7	10.338 ppm	Y 361.104	103.37864
As	188.980	10.139	ppm	0.36097	3.6	4006.7	10.139 ppm	Y 361.104	101.38894
B	249.772	10.064	ppm	0.11133	1.1	110031	10.064 ppm	Y 361.104	100.64332
Ba	233.527	10.308	ppm	0.57317	5.6	360694	10.308 ppm	Y 361.104	103.08118
Be	234.861	10.228	ppm	0.54451	5.3	540952	10.228 ppm	Y 361.104	102.27696
Ca	315.887	-0.017420u	ppm	0.001617	9.3	130.97	-0.017420 ppm	Y 361.104	-
Cd	228.802	10.335	ppm	0.52277	5.1	77944	10.335 ppm	Y 361.104	103.35237
Co	231.160	10.356	ppm	0.55823	5.4	58717	10.356 ppm	Y 361.104	103.55706
Cr	267.716	10.352	ppm	0.58507	5.7	258004	10.352 ppm	Y 361.104	103.52284
Cu	324.754	10.258	ppm	0.50369	4.9	329912	10.258 ppm	Y 361.104	102.57567
Fe	261.382	10.388	ppm	0.56906	5.5	15704	10.388 ppm	Y 361.104	103.88054
K	728.181	-0.002174u	ppm	0.000327	15.1	89.236	-0.002174 ppm	Y 361.104	-
Li	610.365	10.233	ppm	0.55308	5.4	407417	10.233 ppm	Y 361.104	102.33235
Mg	279.078	-0.003086u	ppm	0.002449	79.4	-5.3399	-0.003086 ppm	Y 361.104	-
Mn	293.305	10.343	ppm	0.56751	5.5	112908	10.343 ppm	Y 361.104	103.42929
Mo	202.032	-0.002381u	ppm	0.000497	20.9	2.2839	-0.002381 ppm	Y 361.104	-
Na	589.592	0.25124	ppm	0.022875	9.1	38651	0.25124 ppm	Y 361.104	-
Ni	221.648	10.342	ppm	0.57782	5.6	15683	10.342 ppm	Y 361.104	103.41768
Pb	220.353	10.352	ppm	0.55868	5.4	17169	10.352 ppm	Y 361.104	103.51967
Sb	217.582	0.034544	ppm	0.007230	20.9	11.216	0.034544 ppm	Y 361.104	-
Se	196.026	10.261	ppm	0.51445	5.0	2975.5	10.261 ppm	Y 361.104	102.60918
Si	251.611	0.10068	ppm	0.010552	10.5	248.07	0.10068 ppm	Y 361.104	-
Sn	189.927	0.004332	ppm	0.001642	37.9	5.6763	0.004332 ppm	Y 361.104	-
Sr	216.596	10.263	ppm	0.42550	4.1	53824	10.263 ppm	Y 361.104	102.63484
Ti	322.284	0.000634	ppm	0.000816	128.6	86.261	0.000634 ppm	Y 361.104	-
Tl	190.794	10.267	ppm	0.54917	5.3	5021.5	10.267 ppm	Y 361.104	102.66631
V	289.164	10.339	ppm	0.55661	5.4	57939	10.339 ppm	Y 361.104	103.38918
Zn	206.200	10.454	ppm	0.60633	5.8	11511	10.454 ppm	Y 361.104	104.54002
Zr	257.147	10.326	ppm	0.55469	5.4	97537	10.326 ppm	Y 361.104	103.25524

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.97966	169494	4986.649	2.9

ICS-A (ICSA) 9/25/01, 9:41:55 PM Rack 1, Tube 17

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-19.654	-11.871	-6.1318
Al	237.312	317199	302265	300914
As	188.980	-0.54766	3.2918	-0.28433
B	249.772	458.38	385.95	302.27
Ba	233.527	261.24	243.46	245.90
Be	234.861	-2114.8	-1935.8	-1805.0
Ca	315.887	2492880	2386646	2395412
Cd	228.802	18.018	13.364	15.007
Co	231.160	128.42	109.50	122.26
Cr	267.716	57.269	51.895	58.048
Cu	324.754	-527.18	-514.31	-516.82
Fe	261.382	298591	285358	285200
K	728.181	94.948	92.310	114.56
Li	610.365	-10674	-10028	-10043
Mg	279.078	456696	437920	437121
Mn	293.305	113.74	97.778	95.953
Mo	202.032	0.67452	-1.5032	2.4482
Na	589.592	6508.1	6237.2	6253.8
Na	568.821	1660.8	1619.6	1625.6
Ni	221.648	9.3349	10.668	8.3314
Pb	220.353	190.14	171.81	176.71
Sb	217.582	-12.584	-15.383	-17.360
Se	196.026	7.3870	4.2537	4.6200
Si	251.611	63.685	62.990	54.816
Sn	189.927	4.0901	0.76466	1.4927
Sr	216.596	218.46	221.71	219.82
Ti	322.284	60.482	59.112	58.783
Tl	190.794	-14.054	-16.115	-18.303
V	289.164	66.672	59.008	60.257
Y	361.104	150162	154955	155101
Zn	206.200	8.7647	8.4895	12.414
Zr	257.147	81.487	82.307	82.679

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	-0.000527u	ppm	0.000249	47.3	-12.552	-0.000527 ppm	Y 361.104	-0.00053
Al	237.312	527.79	ppm	15.547	2.9	306792	527.79 ppm	Y 361.104	-
As	188.980	0.001856u	ppm	0.005429	292.4	0.81993	0.001856 ppm	Y 361.104	0.00186
B	249.772	0.13060	ppm	0.007150	5.5	382.20	0.13060 ppm	Y 361.104	0.13060K
Ba	233.527	0.004634	ppm	0.000275	5.9	250.20	0.004634 ppm	Y 361.104	0.00463
Be	234.861	-0.005478u	ppm	0.002940	53.7	-1951.8	-0.005478 ppm	Y 361.104	-0.00548
Ca	315.887	482.39	ppm	11.735	2.4	2424979	482.39 ppm	Y 361.104	-
Cd	228.802	0.002108	ppm	0.000312	14.8	15.463	0.002108 ppm	Y 361.104	0.00211
Co	231.160	0.004365	ppm	0.001697	38.9	120.06	0.004365 ppm	Y 361.104	0.00436
Cr	267.716	0.002119	ppm	0.000134	6.3	55.738	0.002119 ppm	Y 361.104	0.00212
Cu	324.754	-0.000732u	ppm	0.000212	29.0	-519.44	-0.000732 ppm	Y 361.104	-0.00073
Fe	261.382	190.41	ppm	5.0514	2.7	289717	190.41 ppm	Y 361.104	-
K	728.181	-0.000878u	ppm	0.001507	171.7	100.61	-0.000878 ppm	Y 361.104	-0.00088
Li	610.365	0.059393u	ppm	0.009276	15.6	-10248	0.059393 ppm	Y 361.104	0.05939K
Mg	279.078	501.72	ppm	12.521	2.5	443912	501.72 ppm	Y 361.104	-
Mn	293.305	0.008918	ppm	0.000897	10.1	102.49	0.008918 ppm	Y 361.104	0.00892
Mo	202.032	-0.002777u	ppm	0.000450	16.2	0.53983	-0.002777 ppm	Y 361.104	-0.00278
Na	589.592	0.059538	ppm	0.001804	3.0	6333.0	0.059538 ppm	Y 361.104	0.05954
Ni	221.648	0.006075	ppm	0.000772	12.7	9.4447	0.006075 ppm	Y 361.104	0.00608
Pb	220.353	-0.004456	ppm	0.005721	128.4	179.55	-0.004456 ppm	Y 361.104	-0.00446
Sb	217.582	0.000092u	ppm	0.003837	4157.6	-15.109	0.000092 ppm	Y 361.104	0.00009
Se	196.026	-0.017326	ppm	0.005909	34.1	5.4202	-0.017326 ppm	Y 361.104	-0.01733
Si	251.611	0.010295	ppm	0.002347	22.8	60.497	0.010295 ppm	Y 361.104	0.01029
Sn	189.927	0.001268u	ppm	0.002054	162.0	2.1158	0.001268 ppm	Y 361.104	0.00127
Sr	216.596	-0.000819	ppm	0.000312	38.1	219.99	-0.000819 ppm	Y 361.104	-0.00082
Ti	322.284	-0.001877u	ppm	0.000124	6.6	59.459	-0.001877 ppm	Y 361.104	-0.00188
Tl	190.794	0.010431u	ppm	0.004367	41.9	-16.157	0.010431 ppm	Y 361.104	0.01043
V	289.164	-0.002257	ppm	0.000731	32.4	61.979	-0.002257 ppm	Y 361.104	-0.00226
Zn	206.200	0.005911	ppm	0.001995	33.8	9.8894	0.005911 ppm	Y 361.104	0.00591
Zr	257.147	0.007534	ppm	0.000065	0.9	82.158	0.007534 ppm	Y 361.104	0.00753

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.88667	153406	2810.401	1.8

ICS-AB (1CSAB) 9/25/01, 9:45:10 PM Rack 1, Tube 18

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	5829.8	5851.3	5823.9
Al	237.312	300051	300706	297615
As	188.980	38.101	35.985	39.367

El	Wavelen.	Replicates Intensity (c/s)		
B	249.772	23.414	24.216	-4.5925
Ba	233.527	17556	17578	17529
Be	234.861	25582	25664	25625
Ca	315.887	2388541	2393366	2381483
Cd	228.802	7948.4	7962.2	7926.0
Co	231.160	2790.0	2784.5	2773.7
Cr	267.716	12033	12075	11992
Cu	324.754	16487	16540	16426
Fe	261.382	285111	286137	284278
K	728.181	58.308	72.845	85.282
Li	610.365	-10194	-10219	-10208
Mg	279.078	439272	438651	435963
Mn	293.305	5354.8	5359.4	5341.5
Mo	202.032	1.6956	-0.39888	4.4517
Na	589.592	8261.5	8236.0	8183.6
Na	568.821	1576.1	1569.8	1589.5
Ni	221.648	1394.0	1401.1	1394.2
Pb	220.353	1715.5	1721.1	1703.9
Sb	217.582	387.52	387.33	381.14
Se	196.026	18.037	15.281	21.851
Si	251.611	124.65	120.99	123.85
Sn	189.927	-0.70236	4.5085	3.2875
Sr	216.596	223.84	215.43	206.98
Ti	322.284	53.316	51.896	49.879
Tl	190.794	26.132	31.129	27.899
V	289.164	2805.1	2819.8	2810.1
Y	361.104	154822	154927	155225
Zn	206.200	1031.4	1042.1	1012.6
Zr	257.147	92.969	89.980	85.019

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.21437	ppm	0.000531	0.2	5835.0	0.21437 ppm	Y 361.104	107.18515
Al	237.312	515.17	ppm	2.8016	0.5	299457	515.17 ppm	Y 361.104	103.03458
As	188.980	0.095370	ppm	0.004324	4.5	37.818	0.095370 ppm	Y 361.104	95.36975
B	249.772	0.095289u	ppm	0.001502	1.6	14.346	0.095289 ppm	Y 361.104	-
Ba	233.527	0.49928	ppm	0.000701	0.1	17554	0.49928 ppm	Y 361.104	99.85648
Be	234.861	0.51531	ppm	0.000774	0.2	25624	0.51531 ppm	Y 361.104	103.06163
Ca	315.887	475.00	ppm	1.1893	0.3	2387797	475.00 ppm	Y 361.104	94.99916
Cd	228.802	1.0520	ppm	0.002420	0.2	7945.5	1.0520 ppm	Y 361.104	105.19859

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Co	231.160	0.47027	ppm	0.001459	0.3	2782.8	0.47027 ppm	Y 361.104	94.05326
Cr	267.716	0.48273	ppm	0.001656	0.3	12034	0.48273 ppm	Y 361.104	96.54507
Cu	324.754	0.52766	ppm	0.001786	0.3	16484	0.52766 ppm	Y 361.104	105.53271
Fe	261.382	187.42	ppm	0.61186	0.3	285175	187.42 ppm	Y 361.104	93.71066
K	728.181	-0.004399u	ppm	0.001673	38.0	72.145	-0.004399 ppm	Y 361.104	-
Li	610.365	0.055342u	ppm	0.000315	0.6	-10207	0.055342 ppm	Y 361.104	-
Mg	279.078	495.00	ppm	1.9878	0.4	437962	495.00 ppm	Y 361.104	98.99948
Mn	293.305	0.48982	ppm	0.000850	0.2	5351.9	0.48982 ppm	Y 361.104	97.96319
Mo	202.032	-0.002464u	ppm	0.000553	22.4	1.9162	-0.002464 ppm	Y 361.104	-
Na	589.592	0.072814	ppm	0.000472	0.6	8227.0	0.072814 ppm	Y 361.104	-
Ni	221.648	0.92029	ppm	0.002658	0.3	1396.4	0.92029 ppm	Y 361.104	92.02934
Pb	220.353	0.92312	ppm	0.005271	0.6	1713.5	0.92312 ppm	Y 361.104	92.31171
Sb	217.582	0.64121	ppm	0.005801	0.9	385.33	0.64121 ppm	Y 361.104	-
Se	196.026	0.027998	ppm	0.011380	40.6	18.390	0.027998 ppm	Y 361.104	55.99651
Si	251.611	0.040656	ppm	0.000916	2.3	123.16	0.040656 ppm	Y 361.104	-
Sn	189.927	0.001707u	ppm	0.003202	187.5	2.3645	0.001707 ppm	Y 361.104	-
Sr	216.596	-0.000593	ppm	0.001607	271.1	215.42	-0.000593 ppm	Y 361.104	-
Ti	322.284	-0.002906u	ppm	0.000238	8.2	51.697	-0.002906 ppm	Y 361.104	-
Tl	190.794	0.098672	ppm	0.005208	5.3	28.387	0.098672 ppm	Y 361.104	98.67232
V	289.164	0.48904	ppm	0.001328	0.3	2811.7	0.48904 ppm	Y 361.104	97.80738
Zn	206.200	0.93259	ppm	0.013585	1.5	1028.7	0.93259 ppm	Y 361.104	93.25945
Zr	257.147	0.008278	ppm	0.000425	5.1	89.323	0.008278 ppm	Y 361.104	-

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.89583	154991	209.175	0.1

CCV (CCV) **9/25/01, 9:48:25 PM** **Rack 1, Tube 19**

El	Wavelen.	Replicates Intensity (c/s)			
Ag	328.068	27087	27068	26884	
Al	237.312	2967.9	2958.0	2927.9	
As	188.980	1970.2	1966.4	1955.5	
B	249.772	22779	22695	22630	
Ba	233.527	171796	171718	170450	
Be	234.861	267573	267526	266035	
Ca	315.887	244944	245692	243742	
Cd	228.802	38284	38300	38010	
Co	231.160	27885	27872	27685	
Cr	267.716	122432	122591	121562	
Cu	324.754	160656	159229	157268	

El	Wavelen.	Replicates Intensity (c/s)			
Fe	261.382	7386.5	7384.2	7334.5	
K	728.181	438262	437120	435217	
Li	610.365	198750	198644	197280	
Mg	279.078	42340	42350	41967	
Mn	293.305	53937	53922	53508	
Mo	202.032	4374.3	4387.8	4389.1	
Na	589.592	4537563	4526590	4491503	
Na	568.821	14637	14561	14409	
Ni	221.648	7394.1	7419.0	7350.5	
Pb	220.353	8127.8	8139.5	8058.0	
Sb	217.582	635.78	635.73	641.08	
Se	196.026	1440.1	1431.2	1428.1	
Si	251.611	10860	10835	10768	
Sn	189.927	4206.6	4226.7	4179.7	
Sr	216.596	25788	25853	25702	
Ti	322.284	36358	36325	35732	
Tl	190.794	2374.8	2385.7	2361.9	
V	289.164	27853	27819	27592	
Y	361.104	165670	166322	167829	
Zn	206.200	5396.7	5407.5	5381.1	
Zr	257.147	47017	47018	46611	

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.98091	ppm	0.004127	0.4	27013	0.98091 ppm	Y 361.104	98.09090
Al	237.312	5.0618	ppm	0.035797	0.7	2951.3	5.0618 ppm	Y 361.104	101.23579
As	188.980	4.9696	ppm	0.019347	0.4	1964.0	4.9696 ppm	Y 361.104	99.39137
B	249.772	2.0679	ppm	0.006843	0.3	22702	2.0679 ppm	Y 361.104	103.39544
Ba	233.527	4.8948	ppm	0.021601	0.4	171321	4.8948 ppm	Y 361.104	97.89597
Be	234.861	5.0490	ppm	0.016538	0.3	267045	5.0490 ppm	Y 361.104	100.97911
Ca	315.887	48.658	ppm	0.19571	0.4	244793	48.658 ppm	Y 361.104	97.31670
Cd	228.802	5.0651	ppm	0.021603	0.4	38198	5.0651 ppm	Y 361.104	101.30241
Co	231.160	4.8986	ppm	0.019653	0.4	27814	4.8986 ppm	Y 361.104	97.97292
Cr	267.716	4.9029	ppm	0.022229	0.5	122195	4.9029 ppm	Y 361.104	98.05890
Cu	324.754	4.9443	ppm	0.052858	1.1	159051	4.9443 ppm	Y 361.104	98.88576
Fe	261.382	4.8795	ppm	0.019301	0.4	7368.4	4.8795 ppm	Y 361.104	97.58963
K	728.181	52.471	ppm	0.17934	0.3	436866	52.471 ppm	Y 361.104	104.94133
Li	610.365	5.0047	ppm	0.020619	0.4	198225	5.0047 ppm	Y 361.104	100.09335
Mg	279.078	47.716	ppm	0.24619	0.5	42219	47.716 ppm	Y 361.104	95.43198
Mn	293.305	4.9271	ppm	0.022305	0.5	53789	4.9271 ppm	Y 361.104	98.54137

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Mo	202.032	0.99383	ppm	0.001864	0.2	4383.7	0.99383 ppm	Y 361.104	99.38311
Na	589.592	52.240	ppm	0.27187	0.5	4518552	52.240 ppm	Y 361.104	104.47965
Ni	221.648	4.8617	ppm	0.022841	0.5	7387.9	4.8617 ppm	Y 361.104	97.23389
Pb	220.353	4.8917	ppm	0.026571	0.5	8108.4	4.8917 ppm	Y 361.104	97.83307
Sb	217.582	1.0287	ppm	0.004918	0.5	637.53	1.0287 ppm	Y 361.104	102.87144
Se	196.026	4.9404	ppm	0.021405	0.4	1433.1	4.9404 ppm	Y 361.104	98.80837
Si	251.611	5.1271	ppm	0.022804	0.4	10821	5.1271 ppm	Y 361.104	102.54141
Sn	189.927	4.9362	ppm	0.027704	0.6	4204.4	4.9362 ppm	Y 361.104	98.72343
Sr	216.596	4.9161	ppm	0.014503	0.3	25781	4.9161 ppm	Y 361.104	98.32237
Ti	322.284	4.9609	ppm	0.048466	1.0	36138	4.9609 ppm	Y 361.104	99.21883
Tl	190.794	4.8505	ppm	0.024534	0.5	2374.1	4.8505 ppm	Y 361.104	97.00980
V	289.164	4.9539	ppm	0.025309	0.5	27755	4.9539 ppm	Y 361.104	99.07792
Zn	206.200	4.8975	ppm	0.012096	0.2	5395.1	4.8975 ppm	Y 361.104	97.94959
Zr	257.147	4.9644	ppm	0.024851	0.5	46882	4.9644 ppm	Y 361.104	99.28804

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.96297	166607	1107.185	0.7

BLA01 (CCB) **9/25/01, 9:51:41 PM** **Rack 1, Tube 20**

El	Wavelen.	Replicates Intensity (c/s)			
Ag	328.068	1.4513	0.29804	-1.2591	
Al	237.312	-1.9854	-1.4875	4.7280	
As	188.980	2.2704	2.6530	-0.37983	
B	249.772	642.85	630.06	619.00	
Ba	233.527	83.039	86.082	92.175	
Be	234.861	-1.2704	3.8175	4.5943	
Ca	315.887	380.69	379.64	392.17	
Cd	228.802	1.8604	3.6049	1.3467	
Co	231.160	9.8730	12.503	11.524	
Cr	267.716	10.978	12.509	10.503	
Cu	324.754	30.409	37.231	36.551	
Fe	261.382	10.576	9.0007	8.8181	
K	728.181	57.883	83.264	77.127	
Li	610.365	621.47	644.10	619.09	
Mg	279.078	0.14180	3.0108	2.9440	
Mn	293.305	8.8504	3.5058	3.2746	
Mo	202.032	17.714	13.519	14.216	
Na	589.592	1084.1	1155.3	1229.0	
Na	568.821	-324.87	-326.18	-313.15	

El	Wavelen.	Replicates Intensity (c/s)			
Ni	221.648	-0.17020	-0.14360	-1.0287	
Pb	220.353	-2.2968	-0.24704	-1.1691	
Sb	217.582	-0.36896	-3.8841	-1.8184	
Se	196.026	1.7304	0.097592	2.3585	
Si	251.611	55.110	55.753	57.105	
Sn	189.927	0.76305	0.52860	1.2428	
Sr	216.596	0.70096	0.11044	-2.6248	
Ti	322.284	70.828	74.144	71.623	
Tl	190.794	3.4963	1.3467	0.54145	
V	289.164	-6.1810	-1.4079	-3.4792	
Y	361.104	177299	178206	178754	
Zn	206.200	2.3414	2.8295	3.1929	
Zr	257.147	9.7294	11.734	13.207	

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	-0.000007u	ppm	0.000050	702.6	0.16340	-0.000007 ppm	Y 361.104	-0.00001
Al	237.312	0.003518u	ppm	0.006435	182.9	0.41840	0.003518 ppm	Y 361.104	0.00352
As	188.980	0.003614u	ppm	0.004181	115.7	1.5145	0.003614 ppm	Y 361.104	0.00361
B	249.772	0.044541	ppm	0.001092	2.5	630.64	0.044541 ppm	Y 361.104	0.04454
Ba	233.527	-0.000028u	ppm	0.000133	480.7	87.099	-0.000028 ppm	Y 361.104	-0.00003
Be	234.861	0.000090	ppm	0.000060	66.8	2.3805	0.000090 ppm	Y 361.104	0.00009
Ca	315.887	0.001362	ppm	0.001383	101.5	384.17	0.001362 ppm	Y 361.104	0.00136
Cd	228.802	0.000367	ppm	0.000157	42.7	2.2707	0.000367 ppm	Y 361.104	0.00037
Co	231.160	0.000389	ppm	0.000234	60.1	11.300	0.000389 ppm	Y 361.104	0.00039
Cr	267.716	0.000337	ppm	0.000042	12.5	11.330	0.000337 ppm	Y 361.104	0.00034
Cu	324.754	-0.000033u	ppm	0.000117	355.3	34.730	-0.000033 ppm	Y 361.104	-0.00003
Fe	261.382	-0.000786u	ppm	0.000635	80.8	9.4648	-0.000786 ppm	Y 361.104	-0.00079
K	728.181	-0.004332u	ppm	0.001641	37.9	72.758	-0.004332 ppm	Y 361.104	-0.00433
Li	610.365	0.000770	ppm	0.000347	45.1	628.22	0.000770 ppm	Y 361.104	0.00077
Mg	279.078	0.001109u	ppm	0.001851	166.9	2.0322	0.001109 ppm	Y 361.104	0.00111
Mn	293.305	0.000006u	ppm	0.000289	5166.9	5.2103	0.000006 ppm	Y 361.104	0.00001
Mo	202.032	0.000545	ppm	0.000511	93.8	15.150	0.000545 ppm	Y 361.104	0.00054
Na	589.592	-0.001899u	ppm	0.000861	45.4	1156.2	-0.001899 ppm	Y 361.104	-0.00190
Ni	221.648	-0.000440u	ppm	0.000332	75.4	-0.44750	-0.000440 ppm	Y 361.104	-0.00044
Pb	220.353	0.000786	ppm	0.000619	78.7	-1.2376	0.000786 ppm	Y 361.104	0.00079
Sb	217.582	-0.000502u	ppm	0.002825	562.5	-2.0238	-0.000502 ppm	Y 361.104	-0.00050
Se	196.026	0.001809u	ppm	0.004026	222.5	1.3955	0.001809 ppm	Y 361.104	0.00181
Si	251.611	0.001634	ppm	0.000484	29.6	55.989	0.001634 ppm	Y 361.104	0.00163
Sn	189.927	-0.000222u	ppm	0.000428	192.6	0.84482	-0.000222 ppm	Y 361.104	-0.00022

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Sr	216.596	0.000054u	ppm	0.000338	624.0	-0.60448	0.000054 ppm	Y 361.104	0.00005
Ti	322.284	-0.000122u	ppm	0.000238	195.2	72.198	-0.000122 ppm	Y 361.104	-0.00012
Tl	190.794	0.005520	ppm	0.003139	56.9	1.7948	0.005520 ppm	Y 361.104	0.00552
V	289.164	-0.000729u	ppm	0.000426	58.4	-3.6894	-0.000729 ppm	Y 361.104	-0.00073
Zn	206.200	-0.000551u	ppm	0.000389	70.6	2.7880	-0.000551 ppm	Y 361.104	-0.00055
Zr	257.147	0.000060u	ppm	0.000185	306.1	11.557	0.000060 ppm	Y 361.104	0.00006

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0293	178086	734.762	0.4

Q1284002 BLA02 (Samp) **9/25/01, 9:54:56 PM** **Rack 1, Tube 21**
Weight: 1 Volume: 1 Dilution: 1

El	Wavelen.	Replicates Intensity (c/s)			
Ag	328.068	4.6211	-6.4811	2.8513	
Al	237.312	3.7744	5.5668	4.2829	
As	188.980	0.56581	0.30851	1.2404	
B	249.772	615.43	623.32	631.56	
Ba	233.527	89.884	87.650	86.389	
Be	234.861	-4.9452	-3.9117	-5.1202	
Ca	315.887	445.94	450.48	444.52	
Cd	228.802	1.8707	0.78634	1.0150	
Co	231.160	9.0624	9.1263	12.581	
Cr	267.716	14.414	9.9899	11.383	
Cu	324.754	29.155	27.748	23.030	
Fe	261.382	12.077	8.3786	10.332	
K	728.181	67.988	63.425	45.558	
Li	610.365	618.65	640.36	606.32	
Mg	279.078	7.2654	5.9128	4.2714	
Mn	293.305	6.0037	-1.1315	-1.9205	
Mo	202.032	5.1656	2.9211	4.3706	
Na	589.592	336.77	347.85	353.89	
Na	568.821	-330.04	-324.58	-309.44	
Ni	221.648	0.21378	-0.29065	-1.0819	
Pb	220.353	-2.6127	-1.6171	-6.0351	
Sb	217.582	-3.1811	1.4182	-2.5925	
Se	196.026	1.4558	1.4601	0.74694	
Si	251.611	84.999	87.160	82.923	
Sn	189.927	-0.44884	1.8934	1.0146	
Sr	216.596	-1.5098	0.61537	0.96346	

El	Wavelen.	Replicates Intensity (c/s)			
Ti	322.284	74.543	71.875	62.711	
Tl	190.794	0.012895	0.23134	-1.0002	
V	289.164	1.8425	-0.56067	5.1131	
Y	361.104	176103	175902	175386	
Zn	206.200	2.3571	2.2296	2.8157	
Zr	257.147	19.311	16.071	14.743	

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Ag	328.068	-0.000002u	ppm	0.000219	11456.2	0.33041	-0.000002 ppm	Y 361.104	1.0000
Al	237.312	0.010609	ppm	0.001589	15.0	4.5414	0.010609 ppm	Y 361.104	1.0000
As	188.980	0.001565	ppm	0.001218	77.8	0.70489	0.001565 ppm	Y 361.104	1.0000
B	249.772	0.043883	ppm	0.000738	1.7	623.43	0.043883 ppm	Y 361.104	1.0000
Ba	233.527	-0.000003u	ppm	0.000051	1852.4	87.974	-0.000003 ppm	Y 361.104	1.0000
Be	234.861	-0.000043u	ppm	0.000012	28.8	-4.6590	-0.000043 ppm	Y 361.104	1.0000
Ca	315.887	0.013864	ppm	0.000620	4.5	446.98	0.013864 ppm	Y 361.104	1.0000
Cd	228.802	0.000225	ppm	0.000076	33.6	1.2240	0.000225 ppm	Y 361.104	1.0000
Co	231.160	0.000199u	ppm	0.000354	177.7	10.257	0.000199 ppm	Y 361.104	1.0000
Cr	267.716	0.000361	ppm	0.000091	25.2	11.929	0.000361 ppm	Y 361.104	1.0000
Cu	324.754	-0.000284u	ppm	0.000100	35.2	26.645	-0.000284 ppm	Y 361.104	1.0000
Fe	261.382	-0.000273u	ppm	0.001216	446.1	10.263	-0.000273 ppm	Y 361.104	1.0000
K	728.181	-0.006038u	ppm	0.001469	24.3	58.990	-0.006038 ppm	Y 361.104	1.0000
Li	610.365	0.000616	ppm	0.000434	70.3	621.78	0.000616 ppm	Y 361.104	1.0000
Mg	279.078	0.005386	ppm	0.001695	31.5	5.8166	0.005386 ppm	Y 361.104	1.0000
Mn	293.305	-0.000382u	ppm	0.000400	104.8	0.98390	-0.000382 ppm	Y 361.104	1.0000
Mo	202.032	-0.001956u	ppm	0.000259	13.2	4.1525	-0.001956 ppm	Y 361.104	1.0000
Na	589.592	-0.011526u	ppm	0.000103	0.9	346.17	-0.011526 ppm	Y 361.104	1.0000
Na	568.821	1.5751	ppm	0.032982	2.1	-321.35	1.5751 ppm	Y 361.104	1.0000
Ni	221.648	-0.000427u	ppm	0.000430	100.9	-0.38626	-0.000427 ppm	Y 361.104	1.0000
Pb	220.353	-0.000538u	ppm	0.001397	259.6	-3.4216	-0.000538 ppm	Y 361.104	1.0000
Sb	217.582	0.000412u	ppm	0.004002	971.5	-1.4518	0.000412 ppm	Y 361.104	1.0000
Se	196.026	0.001207u	ppm	0.001416	117.3	1.2210	0.001207 ppm	Y 361.104	1.0000
Si	251.611	0.015451	ppm	0.001008	6.5	85.027	0.015451 ppm	Y 361.104	1.0000
Sn	189.927	-0.000252u	ppm	0.001390	552.3	0.81970	-0.000252 ppm	Y 361.104	1.0000
Sr	216.596	0.000174u	ppm	0.000255	146.9	0.023006	0.000174 ppm	Y 361.104	1.0000
Ti	322.284	-0.000462u	ppm	0.000854	184.7	69.710	-0.000462 ppm	Y 361.104	1.0000
Tl	190.794	0.001309u	ppm	0.001350	103.1	-0.25200	0.001309 ppm	Y 361.104	1.0000
V	289.164	0.000304u	ppm	0.000507	166.7	2.1316	0.000304 ppm	Y 361.104	1.0000
Zn	206.200	-0.000842u	ppm	0.000281	33.3	2.4675	-0.000842 ppm	Y 361.104	1.0000
Zr	257.147	0.000606	ppm	0.000249	41.1	16.709	0.000606 ppm	Y 361.104	1.0000

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El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0161	175797	369.924	0.2

Q1284003 LCS (Samp) **9/25/01, 9:58:12 PM** **Rack 1, Tube 22**
Weight: 1 Volume: 1 Dilution: 1

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	13986	14051	13978
Al	237.312	12465	12503	12414
As	188.980	7879.1	8000.3	7940.8
B	249.772	11464	11579	11594
Ba	233.527	686153	690990	684555
Be	234.861	27374	27563	27519
Ca	315.887	506937	505509	502893
Cd	228.802	3842.1	3869.2	3848.0
Co	231.160	28954	29057	29016
Cr	267.716	50715	50939	50927
Cu	324.754	82564	83031	82964
Fe	261.382	15210	15279	15258
K	728.181	877158	880626	876146
Li	610.365	38894	39042	39027
Mg	279.078	87995	88343	88364
Mn	293.305	55356	55585	55604
Mo	202.032	4683.3	4722.7	4738.5
Na	589.592	9118217	9128006	9092492
Na	568.821	32357	32445	32106
Ni	221.648	7523.6	7549.6	7565.8
Pb	220.353	8271.4	8282.3	8271.7
Sb	217.582	3442.5	3453.2	3430.6
Se	196.026	6019.3	6032.9	6017.9
Si	251.611	22535	22635	22571
Sn	189.927	0.39067	0.40057	1.3413
Sr	216.596	5265.8	5288.1	5294.9
Ti	322.284	7364.5	7374.5	7364.4
Tl	190.794	10140	10167	10196
V	289.164	28979	29079	29034
Y	361.104	160949	161626	162198
Zn	206.200	5480.4	5510.3	5530.7
Zr	257.147	51.607	39.287	32.449

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Ag	328.068	0.51466	ppm	0.001464	0.3	14005	0.51466 ppm	Y 361.104	1.0000
Al	237.312	21.436	ppm	0.077193	0.4	12461	21.436 ppm	Y 361.104	1.0000
As	188.980	20.098	ppm	0.15338	0.8	7940.1	20.098 ppm	Y 361.104	1.0000
B	249.772	1.0495	ppm	0.006501	0.6	11546	1.0495 ppm	Y 361.104	1.0000
Ba	233.527	19.642	ppm	0.095779	0.5	687233	19.642 ppm	Y 361.104	1.0000
Be	234.861	0.52127	ppm	0.001868	0.4	27486	0.52127 ppm	Y 361.104	1.0000
Ca	315.887	100.42	ppm	0.40807	0.4	505113	100.42 ppm	Y 361.104	1.0000
Cd	228.802	0.54474	ppm	0.001886	0.3	3853.1	0.54474 ppm	Y 361.104	1.0000
Co	231.160	5.0645	ppm	0.009087	0.2	29009	5.0645 ppm	Y 361.104	1.0000
Cr	267.716	2.0407	ppm	0.005063	0.2	50861	2.0407 ppm	Y 361.104	1.0000
Cu	324.754	2.5767	ppm	0.007852	0.3	82853	2.5767 ppm	Y 361.104	1.0000
Fe	261.382	10.053	ppm	0.023306	0.2	15249	10.053 ppm	Y 361.104	1.0000
K	728.181	102.49b	ppm	0.25992	0.3	877977	102.49 ppm	Y 361.104	1.0000
Li	610.365	1.0348	ppm	0.002050	0.2	38988	1.0348 ppm	Y 361.104	1.0000
Mg	279.078	99.724	ppm	0.23463	0.2	88234	99.724 ppm	Y 361.104	1.0000
Mn	293.305	5.0852	ppm	0.012648	0.2	55515	5.0852 ppm	Y 361.104	1.0000
Mo	202.032	1.0691	ppm	0.006467	0.6	4714.8	1.0691 ppm	Y 361.104	1.0000
Na	589.592	102.67	ppm	0.19837	0.2	9112905	102.67 ppm	Y 361.104	1.0000
Na	568.821	101.55	ppm	0.54474	0.5	32303	101.55 ppm	Y 361.104	1.0000
Ni	221.648	4.9536	ppm	0.014029	0.3	7546.3	4.9536 ppm	Y 361.104	1.0000
Pb	220.353	4.9889	ppm	0.003717	0.1	8275.1	4.9889 ppm	Y 361.104	1.0000
Sb	217.582	5.5141	ppm	0.018144	0.3	3442.1	5.5141 ppm	Y 361.104	1.0000
Se	196.026	20.774	ppm	0.028472	0.1	6023.4	20.774 ppm	Y 361.104	1.0000
Si	251.611	10.722	ppm	0.024229	0.2	22580	10.722 ppm	Y 361.104	1.0000
Sn	189.927	0.000025u	ppm	0.000642	2610.4	0.71086	0.000025 ppm	Y 361.104	1.0000
Sr	216.596	1.0073	ppm	0.002909	0.3	5282.9	1.0073 ppm	Y 361.104	1.0000
Ti	322.284	1.0032	ppm	0.000793	0.1	7367.8	1.0032 ppm	Y 361.104	1.0000
Tl	190.794	20.870	ppm	0.058152	0.3	10168	20.870 ppm	Y 361.104	1.0000
V	289.164	5.1791	ppm	0.008841	0.2	29031	5.1791 ppm	Y 361.104	1.0000
Zn	206.200	5.0069	ppm	0.023054	0.5	5507.1	5.0069 ppm	Y 361.104	1.0000
Zr	257.147	0.003884	ppm	0.001028	26.5	41.114	0.003884 ppm	Y 361.104	1.0000

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.93398	161591	625.421	0.4

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A567128 1:5 (Samp) **9/25/01, 10:01:28 PM** **Rack 1, Tube 23**
Weight: 1 Volume: 1 Dilution: 5

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-3.2257	-11.626	-13.450
Al	237.312	4.8280	3.8413	4.1864
As	188.980	4.1207	1.7097	1.2504
B	249.772	3068.9	3094.9	3101.1
Ba	233.527	627.04	624.64	625.36
Be	234.861	-2.3609	-4.3229	-4.2061
Ca	315.887	24385	24400	24427
Cd	228.802	-2.2543	1.1241	0.91187
Co	231.160	8.8661	7.7990	10.208
Cr	267.716	11.683	11.792	7.1397
Cu	324.754	65.685	75.892	67.640
Fe	261.382	90.709	87.432	89.863
K	728.181	15903	15879	15910
Li	610.365	1245.3	1226.9	1254.0
Mg	279.078	1445.7	1437.0	1445.9
Mn	293.305	22.082	14.619	16.336
Mo	202.032	17.882	15.718	14.262
Na	589.592	3946367	3932421	3944887
Na	568.821	13068	13132	13092
Ni	221.648	1.9228	2.1628	2.5576
Pb	220.353	-5.6694	-0.49165	-1.8241
Sb	217.582	-2.5513	-2.2438	-2.6105
Se	196.026	2.9793	3.2988	1.4907
Si	251.611	1571.8	1566.7	1565.1
Sn	189.927	2.1354	0.62946	0.98068
Sr	216.596	1294.7	1292.3	1296.3
Ti	322.284	76.744	73.010	68.863
Tl	190.794	10.622	9.7744	6.5976
V	289.164	4.9369	0.59592	-0.19250
Y	361.104	175648	176309	177052
Zn	206.200	23.228	21.207	21.308
Zr	257.147	7.8245	16.939	10.149

SP

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Ag	328.068	-0.000360u	ppm	0.000200	55.7	-9.4340	-0.001798 ppm	Y 361.104	1.0000
Al	237.312	0.010173	ppm	0.000861	8.5	4.2852	0.050867 ppm	Y 361.104	1.0000
As	188.980	0.005755	ppm	0.003903	67.8	2.3603	0.028774 ppm	Y 361.104	1.0000

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
B	249.772	0.26949	ppm	0.001567	0.6	3088.3	1.3474 ppm	Y 361.104	1.0000
Ba	233.527	0.015368	ppm	0.000035	0.2	625.68	0.076840 ppm	Y 361.104	1.0000
Be	234.861	-0.000015u	ppm	0.000021	140.3	-3.6299	-0.000074 ppm	Y 361.104	1.0000
Ca	315.887	4.7817	ppm	0.004216	0.1	24404	23.908 ppm	Y 361.104	1.0000
Cd	228.802	0.000061u	ppm	0.000251	413.3	-0.072794	0.000303 ppm	Y 361.104	1.0000
Co	231.160	-0.000036u	ppm	0.000212	589.7	8.9577	-0.000180 ppm	Y 361.104	1.0000
Cr	267.716	0.000292	ppm	0.000107	36.5	10.205	0.001458 ppm	Y 361.104	1.0000
Cu	324.754	0.001059	ppm	0.000168	15.9	69.739	0.005297 ppm	Y 361.104	1.0000
Fe	261.382	0.051700	ppm	0.001118	2.2	89.335	0.25850 ppm	Y 361.104	1.0000
K	728.181	1.9547	ppm	0.001980	0.1	15897	9.7737 ppm	Y 361.104	1.0000
Li	610.365	0.019502	ppm	0.000349	1.8	1242.1	0.097508 ppm	Y 361.104	1.0000
Mg	279.078	1.6296	ppm	0.005770	0.4	1442.9	8.1479 ppm	Y 361.104	1.0000
Mn	293.305	0.001148	ppm	0.000358	31.2	17.679	0.005739 ppm	Y 361.104	1.0000
Mo	202.032	0.000728	ppm	0.000414	56.9	15.954	0.003638 ppm	Y 361.104	1.0000
Na	589.592	45.787	ppm	0.087096	0.2	3941225	228.94 ppm	Y 361.104	1.0000
Na	568.821	43.000	ppm	0.099452	0.2	13097	215.00 ppm	Y 361.104	1.0000
Ni	221.648	-0.000093	ppm	0.000211	227.9	2.2144	-0.000463 ppm	Y 361.104	1.0000
Pb	220.353	-0.000072u	ppm	0.001621	2250.0	-2.6617	-0.000360 ppm	Y 361.104	1.0000
Sb	217.582	-0.001206u	ppm	0.000315	26.1	-2.4685	-0.006032 ppm	Y 361.104	1.0000
Se	196.026	0.005919	ppm	0.003329	56.2	2.5896	0.029596 ppm	Y 361.104	1.0000
Si	251.611	0.72096	ppm	0.001671	0.2	1567.9	3.6048 ppm	Y 361.104	1.0000
Sn	189.927	0.000252u	ppm	0.000926	366.9	1.2485	0.001261 ppm	Y 361.104	1.0000
Sr	216.596	0.24694	ppm	0.000382	0.2	1294.5	1.2347 ppm	Y 361.104	1.0000
Ti	322.284	-0.000029u	ppm	0.000542	1851.8	72.873	-0.000146 ppm	Y 361.104	1.0000
Tl	190.794	0.020330	ppm	0.004360	21.4	8.9980	0.10165 ppm	Y 361.104	1.0000
V	289.164	0.000243u	ppm	0.000491	201.9	1.7801	0.001216 ppm	Y 361.104	1.0000
Zn	206.200	0.016870	ppm	0.001037	6.1	21.915	0.084348 ppm	Y 361.104	1.0000
Zr	257.147	0.000069u	ppm	0.000501	731.2	11.638	0.000343 ppm	Y 361.104	1.0000

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0192	176336	702.178	0.4

A567128 (Samp) **9/25/01, 10:04:44 PM** **Rack 1, Tube 24**
Weight: 1 Volume: 1 Dilution: 1

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-32.734	-40.964	-29.141
Al	237.312	22.975	19.804	19.668
As	188.980	1.8973	3.1858	-0.97046
B	249.772	13239	13306	13318

SS

El	Wavelen.	Replicates Intensity (c/s)		
Ba	233.527	2719.6	2728.4	2722.1
Be	234.861	-6.7501	-6.5948	-6.4871
Ca	315.887	116998	117635	117459
Cd	228.802	1.3133	1.2253	3.4124
Co	231.160	10.184	12.526	11.523
Cr	267.716	19.296	19.986	17.952
Cu	324.754	176.56	171.57	177.10
Fe	261.382	397.11	398.58	401.17
K	728.181	95517	95745	95412
Li	610.365	3602.3	3602.4	3653.6
Mg	279.078	6926.4	6951.9	6928.6
Mn	293.305	67.956	75.923	69.545
Mo	202.032	6.7807	8.5302	5.4544
Na	589.592	16144733	16146711	16070877
Na	568.821	71338	71141	70710
Ni	221.648	12.335	11.642	11.665
Pb	220.353	1.8903	-1.7116	-1.8911
Sb	217.582	-2.9266	-2.1244	-2.4781
Se	196.026	0.92494	0.27660	1.6038
Si	251.611	7499.9	7530.4	7495.3
Sn	189.927	-0.91223	1.6406	1.0671
Sr	216.596	6319.5	6339.1	6351.5
Ti	322.284	80.910	79.288	75.024
Tl	190.794	0.98246	3.4069	0.097906
V	289.164	2.6958	7.8045	8.8349
Y	361.104	169148	169649	169762
Zn	206.200	88.165	87.745	90.101
Zr	257.147	17.626	20.988	11.794

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Ag	328.068	-0.001274u	ppm	0.000223	17.5	-34.280	-0.001274 ppm	Y 361.104	1.0000
Al	237.312	0.038611	ppm	0.003219	8.3	20.816	0.038611 ppm	Y 361.104	1.0000
As	188.980	0.003251u	ppm	0.005385	165.7	1.3709	0.003251 ppm	Y 361.104	1.0000
B	249.772	1.2031	ppm	0.003911	0.3	13287	1.2031 ppm	Y 361.104	1.0000
Ba	233.527	0.075332	ppm	0.000129	0.2	2723.4	0.075332 ppm	Y 361.104	1.0000
Be	234.861	-0.000038u	ppm	0.000002	6.6	-6.6107	-0.000038 ppm	Y 361.104	1.0000
Ca	315.887	23.282	ppm	0.065515	0.3	117364	23.282 ppm	Y 361.104	1.0000
Cd	228.802	0.000328	ppm	0.000164	50.0	1.9837	0.000328 ppm	Y 361.104	1.0000
Co	231.160	0.000328	ppm	0.000207	63.0	11.411	0.000328 ppm	Y 361.104	1.0000

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Cr	267.716	0.000648	ppm	0.000041	6.4	19.078	0.000648 ppm	Y 361.104	1.0000
Cu	324.754	0.004351	ppm	0.000095	2.2	175.08	0.004351 ppm	Y 361.104	1.0000
Fe	261.382	0.25519	ppm	0.001353	0.5	398.95	0.25519 ppm	Y 361.104	1.0000
K	728.181	11.748	ppm	0.020839	0.2	95558	11.748 ppm	Y 361.104	1.0000
Li	610.365	0.092041	ppm	0.000744	0.8	3619.4	0.092041 ppm	Y 361.104	1.0000
Mg	279.078	7.8377	ppm	0.015959	0.2	6935.6	7.8377 ppm	Y 361.104	1.0000
Mn	293.305	0.006046	ppm	0.000386	6.4	71.141	0.006046 ppm	Y 361.104	1.0000
Mo	202.032	-0.001326u	ppm	0.000351	26.5	6.9218	-0.001326 ppm	Y 361.104	1.0000
Na	589.592	178.83	ppm	0.46744	0.3	16120773	178.83 ppm	Y 361.104	1.0000
Na	568.821	221.97	ppm	0.99310	0.4	71063	221.97 ppm	Y 361.104	1.0000
Ni	221.648	0.000749	ppm	0.000260	34.7	11.881	0.000749 ppm	Y 361.104	1.0000
Pb	220.353	0.001183	ppm	0.001286	108.7	-0.57076	0.001183 ppm	Y 361.104	1.0000
Sb	217.582	-0.001244u	ppm	0.000643	51.7	-2.5097	-0.001244 ppm	Y 361.104	1.0000
Se	196.026	0.000177u	ppm	0.002289	1290.9	0.93513	0.000177 ppm	Y 361.104	1.0000
Si	251.611	3.5475	ppm	0.009068	0.3	7508.5	3.5475 ppm	Y 361.104	1.0000
Sn	189.927	-0.000511u	ppm	0.001574	307.8	0.59851	-0.000511 ppm	Y 361.104	1.0000
Sr	216.596	1.2082	ppm	0.003082	0.3	6336.7	1.2082 ppm	Y 361.104	1.0000
Ti	322.284	0.000735	ppm	0.000418	56.9	78.407	0.000735 ppm	Y 361.104	1.0000
Tl	190.794	0.004943	ppm	0.003520	71.2	1.4957	0.004943 ppm	Y 361.104	1.0000
V	289.164	0.001069	ppm	0.000585	54.7	6.4450	0.001069 ppm	Y 361.104	1.0000
Zn	206.200	0.077672	ppm	0.001144	1.5	88.670	0.077672 ppm	Y 361.104	1.0000
Zr	257.147	0.000616	ppm	0.000493	79.9	16.803	0.000616 ppm	Y 361.104	1.0000

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.97981	169520	326.665	0.2

Q1284004 SP102 (Samp) **9/25/01, 10:08:01 PM** **Rack 1, Tube 25**
Weight: 1 Volume: 1 Dilution: 1

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	1341.8	1370.8	1340.0
Al	237.312	1276.0	1263.0	1264.2
As	188.980	817.00	806.86	805.64
B	249.772	24458	24400	24682
Ba	233.527	74462	74643	74027
Be	234.861	2747.1	2765.3	2754.8
Ca	315.887	615270	617830	617873
Cd	228.802	385.59	384.51	380.59
Co	231.160	2891.7	2896.1	2897.8
Cr	267.716	5096.8	5095.4	5102.6

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El	Wavelen.	Replicates Intensity (c/s)		
Cu	324.754	8360.7	8328.8	8259.1
Fe	261.382	1911.9	1917.1	1916.9
K	728.181	1050007	1049053	1045382
Li	610.365	41791	41798	41681
Mg	279.078	94155	94072	94142
Mn	293.305	5587.5	5574.7	5574.4
Mo	202.032	4654.1	4681.1	4685.2
Na	589.592	22869004	22922304	22852702
Na	568.821	110528	110259	109952
Ni	221.648	795.47	796.39	795.28
Pb	220.353	820.18	824.77	824.53
Sb	217.582	340.62	337.17	342.60
Se	196.026	600.01	601.36	603.93
Si	251.611	29907	29888	29861
Sn	189.927	1.2250	0.89152	0.98714
Sr	216.596	11509	11544	11464
Ti	322.284	7227.4	7218.7	7207.5
Tl	190.794	1422.5	1434.8	1427.5
V	289.164	2878.7	2896.8	2866.2
Y	361.104	159475	159475	160354
Zn	206.200	652.81	648.55	657.85
Zr	257.147	28.904	30.087	25.149

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Ag	328.068	0.049625	ppm	0.000635	1.3	1350.9	0.049625 ppm	Y 361.104	1.0000
Al	237.312	2.1834	ppm	0.012350	0.6	1267.7	2.1834 ppm	Y 361.104	1.0000
As	188.980	2.0493	ppm	0.015784	0.8	809.83	2.0493 ppm	Y 361.104	1.0000
B	249.772	2.2311	ppm	0.013626	0.6	24514	2.2311 ppm	Y 361.104	1.0000
Ba	233.527	2.1236	ppm	0.009038	0.4	74377	2.1236 ppm	Y 361.104	1.0000
Be	234.861	0.052345	ppm	0.000173	0.3	2755.7	0.052345 ppm	Y 361.104	1.0000
Ca	315.887	122.72	ppm	0.29670	0.2	616991	122.72 ppm	Y 361.104	1.0000
Cd	228.802	0.054366	ppm	0.000348	0.6	383.56	0.054366 ppm	Y 361.104	1.0000
Co	231.160	0.50374	ppm	0.000556	0.1	2895.2	0.50374 ppm	Y 361.104	1.0000
Cr	267.716	0.20445	ppm	0.000153	0.1	5098.3	0.20445 ppm	Y 361.104	1.0000
Cu	324.754	0.25740	ppm	0.001614	0.6	8316.2	0.25740 ppm	Y 361.104	1.0000
Fe	261.382	1.2575	ppm	0.001950	0.2	1915.3	1.2575 ppm	Y 361.104	1.0000
K	728.181	121.31b	ppm	0.27018	0.2	1048147	121.31 ppm	Y 361.104	1.0000
Li	610.365	1.1198	ppm	0.001655	0.1	41757	1.1198 ppm	Y 361.104	1.0000
Mg	279.078	106.38	ppm	0.050574	0.0	94123	106.38 ppm	Y 361.104	1.0000

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Mn	293.305	0.51061	ppm	0.000686	0.1	5578.9	0.51061 ppm	Y 361.104	1.0000
Mo	202.032	1.0597	ppm	0.003845	0.4	4673.5	1.0597 ppm	Y 361.104	1.0000
Na	589.592	251.90	ppm	0.39367	0.2	22881336	251.90 ppm	Y 361.104	1.0000
Na	568.821	342.10	ppm	0.89089	0.3	110246	342.10 ppm	Y 361.104	1.0000
Ni	221.648	0.49664	ppm	0.000389	0.1	795.71	0.49664 ppm	Y 361.104	1.0000
Pb	220.353	0.49991	ppm	0.001556	0.3	823.16	0.49991 ppm	Y 361.104	1.0000
Sb	217.582	0.54739	ppm	0.004393	0.8	340.13	0.54739 ppm	Y 361.104	1.0000
Se	196.026	2.0727	ppm	0.006856	0.3	601.77	2.0727 ppm	Y 361.104	1.0000
Si	251.611	14.194	ppm	0.010868	0.1	29885	14.194 ppm	Y 361.104	1.0000
Sn	189.927	-0.000250u	ppm	0.000202	80.8	1.0346	-0.000250 ppm	Y 361.104	1.0000
Sr	216.596	2.1936	ppm	0.007645	0.3	11506	2.1936 ppm	Y 361.104	1.0000
Ti	322.284	0.98215	ppm	0.001375	0.1	7217.8	0.98215 ppm	Y 361.104	1.0000
Tl	190.794	2.9349	ppm	0.012752	0.4	1428.3	2.9349 ppm	Y 361.104	1.0000
V	289.164	0.51455	ppm	0.002735	0.5	2880.6	0.51455 ppm	Y 361.104	1.0000
Zn	206.200	0.59070	ppm	0.004240	0.7	653.07	0.59070 ppm	Y 361.104	1.0000
Zr	257.147	0.002532	ppm	0.000273	10.8	28.047	0.002532 ppm	Y 361.104	1.0000

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.92344	159768	507.198	0.3

Q1284005 DPS02 (Samp) **9/25/01, 10:11:18 PM** **Rack 1, Tube 26**
Weight: 1 Volume: 1 Dilution: 1

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	1354.3	1372.0	1356.0
Al	237.312	1271.3	1274.0	1262.0
As	188.980	816.60	820.06	827.30
B	249.772	24342	24452	24415
Ba	233.527	75273	74832	75052
Be	234.861	2757.7	2777.7	2766.1
Ca	315.887	622996	623003	623880
Cd	228.802	382.95	386.75	389.85
Co	231.160	2931.8	2912.7	2924.5
Cr	267.716	5138.9	5131.7	5133.5
Cu	324.754	8418.1	8263.9	8364.5
Fe	261.382	1930.7	1918.4	1927.0
K	728.181	1060050	1051730	1047174
Li	610.365	41728	41527	41540
Mg	279.078	94922	94573	94849
Mn	293.305	5630.9	5615.7	5630.5

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El	Wavelen.	Replicates Intensity (c/s)		
Mo	202.032	4682.7	4699.9	4705.1
Na	589.592	22788196	22771136	22747968
Na	568.821	110159	109308	108401
Ni	221.648	805.07	803.70	807.87
Pb	220.353	825.24	827.23	830.00
Sb	217.582	342.72	336.35	345.89
Se	196.026	611.51	603.41	606.38
Si	251.611	30119	29958	29908
Sn	189.927	1.8795	1.1754	1.3094
Sr	216.596	11597	11565	11610
Ti	322.284	7264.9	7202.1	7212.0
Tl	190.794	1440.9	1442.4	1444.0
V	289.164	2904.8	2890.1	2884.1
Y	361.104	159798	160843	160510
Zn	206.200	659.55	655.02	658.74
Zr	257.147	24.591	25.785	30.544

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Ag	328.068	0.049990	ppm	0.000358	0.7	1360.7	0.049990 ppm	Y 361.104	1.0000
Al	237.312	2.1858	ppm	0.010847	0.5	1269.1	2.1858 ppm	Y 361.104	1.0000
As	188.980	2.0784	ppm	0.013823	0.7	821.32	2.0784 ppm	Y 361.104	1.0000
B	249.772	2.2210	ppm	0.005112	0.2	24403	2.2210 ppm	Y 361.104	1.0000
Ba	233.527	2.1429	ppm	0.006306	0.3	75052	2.1429 ppm	Y 361.104	1.0000
Be	234.861	0.052562	ppm	0.000189	0.4	2767.2	0.052562 ppm	Y 361.104	1.0000
Ca	315.887	123.97	ppm	0.10113	0.1	623293	123.97 ppm	Y 361.104	1.0000
Cd	228.802	0.054807	ppm	0.000457	0.8	386.52	0.054807 ppm	Y 361.104	1.0000
Co	231.160	0.50861	ppm	0.001698	0.3	2923.0	0.50861 ppm	Y 361.104	1.0000
Cr	267.716	0.20591	ppm	0.000152	0.1	5134.7	0.20591 ppm	Y 361.104	1.0000
Cu	324.754	0.25841	ppm	0.002433	0.9	8348.8	0.25841 ppm	Y 361.104	1.0000
Fe	261.382	1.2641	ppm	0.004138	0.3	1925.4	1.2641 ppm	Y 361.104	1.0000
K	728.181	121.85b	ppm	0.72233	0.6	1052985	121.85 ppm	Y 361.104	1.0000
Li	610.365	1.1167	ppm	0.002828	0.3	41598	1.1167 ppm	Y 361.104	1.0000
Mg	279.078	107.12	ppm	0.20815	0.2	94782	107.12 ppm	Y 361.104	1.0000
Mn	293.305	0.51490	ppm	0.000796	0.2	5625.7	0.51490 ppm	Y 361.104	1.0000
Mo	202.032	1.0648	ppm	0.002666	0.3	4695.9	1.0648 ppm	Y 361.104	1.0000
Na	589.592	250.68	ppm	0.21836	0.1	22769098	250.68 ppm	Y 361.104	1.0000
Na	568.821	339.13	ppm	2.7171	0.8	109290	339.13 ppm	Y 361.104	1.0000
Ni	221.648	0.50301	ppm	0.001399	0.3	805.55	0.50301 ppm	Y 361.104	1.0000
Pb	220.353	0.50253	ppm	0.001439	0.3	827.49	0.50253 ppm	Y 361.104	1.0000

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	DF
Sb	217.582	0.54984	ppm	0.007769	1.4	341.65	0.54984 ppm	Y 361.104	1.0000
Se	196.026	2.0911	ppm	0.014151	0.7	607.10	2.0911 ppm	Y 361.104	1.0000
Si	251.611	14.246	ppm	0.052392	0.4	29995	14.246 ppm	Y 361.104	1.0000
Sn	189.927	0.000245	ppm	0.000439	179.6	1.4548	0.000245 ppm	Y 361.104	1.0000
Sr	216.596	2.2098	ppm	0.004361	0.2	11591	2.2098 ppm	Y 361.104	1.0000
Ti	322.284	0.98331	ppm	0.004649	0.5	7226.3	0.98331 ppm	Y 361.104	1.0000
Tl	190.794	2.9640	ppm	0.003237	0.1	1442.4	2.9640 ppm	Y 361.104	1.0000
V	289.164	0.51677	ppm	0.001897	0.4	2893.0	0.51677 ppm	Y 361.104	1.0000
Zn	206.200	0.59498	ppm	0.002202	0.4	657.77	0.59498 ppm	Y 361.104	1.0000
Zr	257.147	0.002419	ppm	0.000333	13.8	26.973	0.002419 ppm	Y 361.104	1.0000

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.92700	160384	534.108	0.3

CCV (CCV) **9/25/01, 10:14:35 PM** **Rack 1, Tube 27**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	27289	27126	27014
Al	237.312	3002.2	2971.6	2962.1
As	188.980	1993.3	1995.7	1998.1
B	249.772	23028	22804	22780
Ba	233.527	174658	173577	173441
Be	234.861	269656	268119	268215
Ca	315.887	249709	248292	248178
Cd	228.802	38667	38475	38364
Co	231.160	28344	28158	28122
Cr	267.716	124521	123562	123399
Cu	324.754	161851	160716	159123
Fe	261.382	7497.4	7448.1	7425.4
K	728.181	443886	441626	441497
Li	610.365	201364	199809	199412
Mg	279.078	42901	42566	42491
Mn	293.305	54704	54321	54213
Mo	202.032	4463.9	4465.4	4467.7
Na	589.592	4578268	4531433	4519216
Na	568.821	14752	14642	14539
Ni	221.648	7540.9	7490.2	7485.5
Pb	220.353	8256.9	8210.5	8200.8
Sb	217.582	650.98	641.27	646.17
Se	196.026	1467.3	1456.3	1459.3

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El	Wavelen.	Replicates Intensity (c/s)		
Si	251.611	11019	10965	10910
Sn	189.927	4305.1	4277.1	4264.4
Sr	216.596	26362	26281	26211
Ti	322.284	36556	36292	36169
Tl	190.794	2427.8	2408.9	2413.7
V	289.164	28209	28027	27927
Y	361.104	166894	168450	168909
Zn	206.200	5533.5	5511.4	5494.5
Zr	257.147	47737	47411	47234

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.98556	ppm	0.005085	0.5	27143	0.98556 ppm	Y 361.104	98.55557
Al	237.312	5.1086	ppm	0.036003	0.7	2978.6	5.1086 ppm	Y 361.104	102.17239
As	188.980	5.0498	ppm	0.006076	0.1	1995.7	5.0498 ppm	Y 361.104	100.99567
B	249.772	2.0834	ppm	0.012512	0.6	22871	2.0834 ppm	Y 361.104	104.17222
Ba	233.527	4.9683	ppm	0.019065	0.4	173892	4.9683 ppm	Y 361.104	99.36565
Be	234.861	5.0796	ppm	0.016275	0.3	268664	5.0796 ppm	Y 361.104	101.59146
Ca	315.887	49.441	ppm	0.16981	0.3	248726	49.441 ppm	Y 361.104	98.88280
Cd	228.802	5.1055	ppm	0.020309	0.4	38502	5.1055 ppm	Y 361.104	102.10970
Co	231.160	4.9679	ppm	0.020942	0.4	28208	4.9679 ppm	Y 361.104	99.35760
Cr	267.716	4.9685	ppm	0.024313	0.5	123828	4.9685 ppm	Y 361.104	99.36900
Cu	324.754	4.9913	ppm	0.042582	0.9	160563	4.9913 ppm	Y 361.104	99.82642
Fe	261.382	4.9382	ppm	0.024184	0.5	7457.0	4.9382 ppm	Y 361.104	98.76486
K	728.181	53.108	ppm	0.15648	0.3	442336	53.108 ppm	Y 361.104	106.21613
Li	610.365	5.0548	ppm	0.025950	0.5	200195	5.0548 ppm	Y 361.104	101.09517
Mg	279.078	48.206	ppm	0.24648	0.5	42653	48.206 ppm	Y 361.104	96.41211
Mn	293.305	4.9842	ppm	0.023633	0.5	54412	4.9842 ppm	Y 361.104	99.68430
Mo	202.032	1.0125	ppm	0.000430	0.0	4465.7	1.0125 ppm	Y 361.104	101.24683
Na	589.592	52.514	ppm	0.35210	0.7	4542973	52.514 ppm	Y 361.104	105.02868
Ni	221.648	4.9391	ppm	0.020252	0.4	7505.5	4.9391 ppm	Y 361.104	98.78246
Pb	220.353	4.9606	ppm	0.018056	0.4	8222.7	4.9606 ppm	Y 361.104	99.21207
Sb	217.582	1.0426	ppm	0.007763	0.7	646.14	1.0426 ppm	Y 361.104	104.25776
Se	196.026	5.0366	ppm	0.019672	0.4	1461.0	5.0366 ppm	Y 361.104	100.73108
Si	251.611	5.1955	ppm	0.025871	0.5	10965	5.1955 ppm	Y 361.104	103.91066
Sn	189.927	5.0276	ppm	0.024432	0.5	4282.2	5.0276 ppm	Y 361.104	100.55219
Sr	216.596	5.0122	ppm	0.014440	0.3	26285	5.0122 ppm	Y 361.104	100.24345
Ti	322.284	4.9885	ppm	0.027172	0.5	36339	4.9885 ppm	Y 361.104	99.77095
Tl	190.794	4.9379	ppm	0.020205	0.4	2416.8	4.9379 ppm	Y 361.104	98.75726
V	289.164	5.0074	ppm	0.025444	0.5	28054	5.0074 ppm	Y 361.104	100.14732

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Zn	206.200	5.0048	ppm	0.017810	0.4	5513.1	5.0048 ppm	Y 361.104	100.09666
Zr	257.147	5.0256	ppm	0.027028	0.5	47461	5.0256 ppm	Y 361.104	100.51277

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.97151	168085	1056.120	0.6

BLA01 (CCB) **9/25/01, 10:17:52 PM** **Rack 1, Tube 28**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-2.9327	2.9331	4.5467
Al	237.312	-1.6806	-2.1732	1.0737
As	188.980	2.1054	-0.014561	4.1807
B	249.772	661.24	663.81	655.99
Ba	233.527	92.658	93.426	96.007
Be	234.861	-1.6935	-0.32343	4.6701
Ca	315.887	379.22	391.09	407.43
Cd	228.802	0.32749	-1.3077	1.1086
Co	231.160	10.194	5.1531	6.9048
Cr	267.716	10.066	15.238	11.556
Cu	324.754	33.040	27.268	35.691
Fe	261.382	8.1494	9.6747	12.674
K	728.181	105.59	92.045	88.107
Li	610.365	630.31	616.80	624.04
Mg	279.078	5.2683	4.8221	3.8006
Mn	293.305	5.0032	10.466	7.7790
Mo	202.032	20.268	16.380	14.500
Na	589.592	1251.6	1475.5	1786.8
Na	568.821	-340.61	-342.27	-325.88
Ni	221.648	0.16603	0.66260	0.34543
Pb	220.353	-6.1311	-2.8976	-3.5227
Sb	217.582	-3.9568	-0.40100	-1.8721
Se	196.026	2.7960	2.6613	0.96220
Si	251.611	61.845	59.383	57.424
Sn	189.927	-1.0329	1.2823	1.1633
Sr	216.596	3.5392	-2.5676	4.4453
Ti	322.284	72.845	75.951	69.222
Tl	190.794	2.2116	1.0622	1.5410
V	289.164	2.7097	-1.5382	-2.1823
Y	361.104	176707	176329	177904
Zn	206.200	2.4759	2.7133	4.4629

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El	Wavelen.	Replicates Intensity (c/s)		
Zr	257.147	14.663	15.502	13.960

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.000042u	ppm	0.000145	341.1	1.5157	0.000042 ppm	Y 361.104	0.00004
Al	237.312	0.001205u	ppm	0.003010	249.8	-0.92669	0.001205 ppm	Y 361.104	0.00120
As	188.980	0.005072u	ppm	0.005310	104.7	2.0905	0.005072 ppm	Y 361.104	0.00507
B	249.772	0.047260	ppm	0.000365	0.8	660.34	0.047260 ppm	Y 361.104	0.04726
Ba	233.527	0.000170	ppm	0.000050	29.4	94.030	0.000170 ppm	Y 361.104	0.00017
Be	234.861	0.000062	ppm	0.000063	102.2	0.88437	0.000062 ppm	Y 361.104	0.00006
Ca	315.887	0.003040	ppm	0.002819	92.7	392.58	0.003040 ppm	Y 361.104	0.00304
Cd	228.802	0.000075u	ppm	0.000163	218.2	0.042792	0.000075 ppm	Y 361.104	0.00007
Co	231.160	-0.000294u	ppm	0.000450	153.4	7.4173	-0.000294 ppm	Y 361.104	-0.00029
Cr	267.716	0.000375	ppm	0.000107	28.5	12.287	0.000375 ppm	Y 361.104	0.00038
Cu	324.754	-0.000118u	ppm	0.000134	113.3	32.000	-0.000118 ppm	Y 361.104	-0.00012
Fe	261.382	-0.000337u	ppm	0.001513	448.7	10.166	-0.000337 ppm	Y 361.104	-0.00034
K	728.181	-0.001545u	ppm	0.001137	73.6	95.247	-0.001545 ppm	Y 361.104	-0.00154
Li	610.365	0.000658	ppm	0.000170	25.9	623.72	0.000658 ppm	Y 361.104	0.00066
Mg	279.078	0.004046	ppm	0.000850	21.0	4.6303	0.004046 ppm	Y 361.104	0.00405
Mn	293.305	0.000238u	ppm	0.000250	105.0	7.7494	0.000238 ppm	Y 361.104	0.00024
Mo	202.032	0.000977	ppm	0.000669	68.5	17.049	0.000977 ppm	Y 361.104	0.00098
Na	589.592	0.002239u	ppm	0.003194	142.7	1504.6	0.002239 ppm	Y 361.104	0.00224
Ni	221.648	0.000109	ppm	0.000166	151.3	0.39135	0.000109 ppm	Y 361.104	0.00011
Pb	220.353	-0.000989u	ppm	0.001034	104.6	-4.1838	-0.000989 ppm	Y 361.104	-0.00099
Sb	217.582	-0.000587u	ppm	0.002857	486.7	-2.0766	-0.000587 ppm	Y 361.104	-0.00059
Se	196.026	0.004377	ppm	0.003526	80.6	2.1398	0.004377 ppm	Y 361.104	0.00438
Si	251.611	0.003329	ppm	0.001054	31.7	59.551	0.003329 ppm	Y 361.104	0.00333
Sn	189.927	-0.000661u	ppm	0.001532	231.6	0.47090	-0.000661 ppm	Y 361.104	-0.00066
Sr	216.596	0.000514u	ppm	0.000727	141.5	1.8056	0.000514 ppm	Y 361.104	0.00051
Ti	322.284	-0.000057u	ppm	0.000463	810.8	72.673	-0.000057 ppm	Y 361.104	-0.00006
Tl	190.794	0.005132	ppm	0.001186	23.1	1.6049	0.005132 ppm	Y 361.104	0.00513
V	289.164	-0.000132u	ppm	0.000473	359.1	-0.33693	-0.000132 ppm	Y 361.104	-0.00013
Zn	206.200	-0.000161u	ppm	0.000988	615.5	3.2174	-0.000161 ppm	Y 361.104	-0.00016
Zr	257.147	0.000394	ppm	0.000082	20.8	14.708	0.000394 ppm	Y 361.104	0.00039

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0229	176980	822.132	0.5

DLS (CRI) 9/25/01, 10:21:10 PM Rack 1, Tube 29

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	276.36	267.95	263.61
Al	237.312	24.244	27.857	28.854
As	188.980	19.490	18.801	17.820
B	249.772	1110.6	1116.7	1118.5
Ba	233.527	447.42	451.91	449.01
Be	234.861	216.85	208.18	217.69
Ca	315.887	891.76	897.42	895.98
Cd	228.802	39.153	38.796	38.924
Co	231.160	68.245	67.410	62.822
Cr	267.716	261.01	265.92	264.85
Cu	324.754	678.45	677.63	676.62
Fe	261.382	49.826	48.589	49.729
K	728.181	886.42	878.52	889.61
Li	610.365	1000.3	993.08	1015.4
Mg	279.078	87.431	88.011	86.835
Mn	293.305	115.88	112.77	114.06
Mo	202.032	54.382	53.917	53.491
Na	589.592	9238.9	9309.3	9393.9
Na	568.821	-275.99	-302.49	-280.53
Ni	221.648	14.895	16.519	16.044
Pb	220.353	18.711	12.917	13.907
Sb	217.582	-0.23907	6.7988	6.6578
Se	196.026	5.4634	2.2938	4.5174
Si	251.611	480.87	473.80	479.19
Sn	189.927	43.687	44.426	45.154
Sr	216.596	55.671	51.547	50.955
Ti	322.284	149.90	140.75	137.61
Tl	190.794	5.0693	5.2972	4.9669
V	289.164	52.365	66.850	59.860
Y	361.104	176303	176628	177794
Zn	206.200	27.010	27.278	26.710
Zr	257.147	110.68	109.15	107.02

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.009860	ppm	0.000238	2.4	269.31	0.009860 ppm	Y 361.104	98.59633
Al	237.312	0.049185	ppm	0.004173	8.5	26.985	0.049185 ppm	Y 361.104	98.36941
As	188.980	0.047118	ppm	0.002124	4.5	18.704	0.047118 ppm	Y 361.104	94.23656
B	249.772	0.088910	ppm	0.000379	0.4	1115.2	0.088910 ppm	Y 361.104	177.82034R

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ba	233.527	0.010329	ppm	0.000065	0.6	449.45	0.010329 ppm	Y 361.104	103.29169
Be	234.861	0.004100	ppm	0.000100	2.4	214.24	0.004100 ppm	Y 361.104	-
Ca	315.887	0.10306	ppm	0.000586	0.6	895.05	0.10306 ppm	Y 361.104	103.05743
Cd	228.802	0.005299	ppm	0.000024	0.5	38.958	0.005299 ppm	Y 361.104	-
Co	231.160	0.009981	ppm	0.000514	5.1	66.159	0.009981 ppm	Y 361.104	99.81001
Cr	267.716	0.010472	ppm	0.000104	1.0	263.93	0.010472 ppm	Y 361.104	104.72201
Cu	324.754	0.019949	ppm	0.000029	0.1	677.57	0.019949 ppm	Y 361.104	99.74495
Fe	261.382	0.025541	ppm	0.000452	1.8	49.381	0.025541 ppm	Y 361.104	102.16410
K	728.181	0.096305	ppm	0.000708	0.7	884.85	0.096305 ppm	Y 361.104	96.30492
Li	610.365	0.010266	ppm	0.000287	2.8	1002.9	0.010266 ppm	Y 361.104	102.65751
Mg	279.078	0.097618	ppm	0.000665	0.7	87.426	0.097618 ppm	Y 361.104	97.61813
Mn	293.305	0.009994	ppm	0.000144	1.4	114.24	0.009994 ppm	Y 361.104	99.93762
Mo	202.032	0.009362	ppm	0.000101	1.1	53.930	0.009362 ppm	Y 361.104	93.62251
Na	589.592	0.094858	ppm	0.000923	1.0	9314.0	0.094858 ppm	Y 361.104	94.85795
Ni	221.648	0.009896	ppm	0.000550	5.6	15.820	0.009896 ppm	Y 361.104	98.95916
Pb	220.353	0.010696	ppm	0.001868	17.5	15.178	0.010696 ppm	Y 361.104	106.95815
Sb	217.582	0.009795	ppm	0.006433	65.7	4.4059	0.009795 ppm	Y 361.104	97.94910
Se	196.026	0.011107	ppm	0.005613	50.5	4.0916	0.011107 ppm	Y 361.104	111.06599
Si	251.611	0.20240	ppm	0.001756	0.9	477.95	0.20240 ppm	Y 361.104	101.19983
Sn	189.927	0.050972	ppm	0.000861	1.7	44.422	0.050972 ppm	Y 361.104	101.94303
Sr	216.596	0.010219	ppm	0.000490	4.8	52.724	0.010219 ppm	Y 361.104	102.19196
Ti	322.284	0.009576	ppm	0.000879	9.2	142.75	0.009576 ppm	Y 361.104	95.76492
Tl	190.794	0.012289	ppm	0.000347	2.8	5.1111	0.012289 ppm	Y 361.104	122.89030
V	289.164	0.010583	ppm	0.001288	12.2	59.691	0.010583 ppm	Y 361.104	105.82854
Zn	206.200	0.021470	ppm	0.000259	1.2	26.999	0.021470 ppm	Y 361.104	107.34978
Zr	257.147	0.010362	ppm	0.000195	1.9	108.95	0.010362 ppm	Y 361.104	103.61780

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0225	176909	784.030	0.4

CDL01 (CRI) **9/25/01, 10:24:28 PM** **Rack 1, Tube 30**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	557.24	553.53	566.05
Al	237.312	1.6623	-0.074794	0.12314
As	188.980	7.4298	9.2551	8.0133
B	249.772	512.00	510.94	523.48
Ba	233.527	89.464	88.788	91.747
Be	234.861	522.95	520.50	526.07
Ca	315.887	375.21	375.72	375.38

El	Wavelen.	Replicates Intensity (c/s)		
Cd	228.802	80.820	76.067	72.718
Co	231.160	594.94	594.69	595.64
Cr	267.716	528.63	520.35	522.24
Cu	324.754	1620.6	1622.7	1619.8
Fe	261.382	9.3221	11.153	9.7167
K	728.181	52.431	56.046	37.832
Li	610.365	615.48	615.84	616.05
Mg	279.078	1.0263	1.4397	-1.3410
Mn	293.305	328.01	338.50	333.13
Mo	202.032	4.1427	5.2455	7.5440
Na	589.592	390.93	373.20	374.18
Na	568.821	-323.25	-332.65	-311.14
Ni	221.648	123.44	124.72	124.13
Pb	220.353	169.49	165.06	169.24
Sb	217.582	76.935	73.591	73.545
Se	196.026	5.4045	2.6523	1.8008
Si	251.611	52.294	50.282	49.218
Sn	189.927	0.59132	1.2533	0.77807
Sr	216.596	0.071642	-3.3114	-0.43514
Ti	322.284	77.313	71.614	70.993
Tl	190.794	10.390	12.946	11.667
V	289.164	576.78	568.09	576.70
Y	361.104	177080	178391	178065
Zn	206.200	50.943	49.879	47.329
Zr	257.147	16.137	11.715	14.275

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.020529	ppm	0.000236	1.2	558.94	0.020529 ppm	Y 361.104	102.64282
Al	237.312	0.003638	ppm	0.001636	45.0	0.57022	0.003638 ppm	Y 361.104	-
As	188.980	0.020614	ppm	0.002360	11.4	8.2327	0.020614 ppm	Y 361.104	103.06827
B	249.772	0.034004	ppm	0.000636	1.9	515.47	0.034004 ppm	Y 361.104	-
Ba	233.527	0.000046	ppm	0.000044	97.4	90.000	0.000046 ppm	Y 361.104	-
Be	234.861	0.009935	ppm	0.000053	0.5	523.17	0.009935 ppm	Y 361.104	99.35088
Ca	315.887	-0.000992u	ppm	0.000051	5.2	375.44	-0.000992 ppm	Y 361.104	-
Cd	228.802	0.010212	ppm	0.000539	5.3	76.535	0.010212 ppm	Y 361.104	102.11906
Co	231.160	0.10231	ppm	0.000087	0.1	595.09	0.10231 ppm	Y 361.104	102.30832
Cr	267.716	0.020897	ppm	0.000174	0.8	523.74	0.020897 ppm	Y 361.104	104.48612
Cu	324.754	0.049312	ppm	0.000047	0.1	1621.1	0.049312 ppm	Y 361.104	98.62497
Fe	261.382	0.000331u	ppm	0.000633	191.1	10.064	0.000331 ppm	Y 361.104	-

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
K	728.181	-0.007304u	ppm	0.001195	16.4	48.770	-0.007304 ppm	Y 361.104	-
Li	610.365	0.000456	ppm	0.000007	1.6	615.79	0.000456 ppm	Y 361.104	-
Mg	279.078	-0.000746u	ppm	0.001696	227.3	0.37499	-0.000746 ppm	Y 361.104	-
Mn	293.305	0.030054	ppm	0.000481	1.6	333.21	0.030054 ppm	Y 361.104	100.18061
Mo	202.032	-0.001617u	ppm	0.000395	24.4	5.6441	-0.001617 ppm	Y 361.104	-
Na	589.592	-0.011131u	ppm	0.000118	1.1	379.43	-0.011131 ppm	Y 361.104	-
Ni	221.648	0.081660	ppm	0.000421	0.5	124.10	0.081660 ppm	Y 361.104	102.07484
Pb	220.353	0.10277	ppm	0.001502	1.5	167.93	0.10277 ppm	Y 361.104	102.77332
Sb	217.582	0.12228	ppm	0.003109	2.5	74.690	0.12228 ppm	Y 361.104	101.89724
Se	196.026	0.008337	ppm	0.006497	77.9	3.2859	0.008337 ppm	Y 361.104	83.37128
Si	251.611	-0.000902u	ppm	0.000743	82.4	50.598	-0.000902 ppm	Y 361.104	-
Sn	189.927	-0.000176u	ppm	0.000401	227.4	0.87423	-0.000176 ppm	Y 361.104	-
Sr	216.596	-0.000026u	ppm	0.000348	1343.6	-1.2250	-0.000026 ppm	Y 361.104	-
Ti	322.284	0.000034u	ppm	0.000479	1404.3	73.307	0.000034 ppm	Y 361.104	-
Tl	190.794	0.025279	ppm	0.002627	10.4	11.668	0.025279 ppm	Y 361.104	126.39361
V	289.164	0.10210	ppm	0.000888	0.9	573.86	0.10210 ppm	Y 361.104	102.09871
Zn	206.200	0.041833	ppm	0.001692	4.0	49.384	0.041833 ppm	Y 361.104	104.58183
Zr	257.147	0.000323	ppm	0.000235	72.8	14.042	0.000323 ppm	Y 361.104	-

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0279	177845	682.550	0.4

ICS-A (ICSA) **9/25/01, 10:27:42 PM** **Rack 1, Tube 31**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-14.526	-22.452	-20.027
Al	237.312	302389	301208	299463
As	188.980	-3.4505	4.4891	-1.7392
B	249.772	-270.15	-233.43	-217.04
Ba	233.527	241.04	248.11	244.40
Be	234.861	-1963.6	-2033.2	-1939.2
Ca	315.887	2407656	2403788	2392142
Cd	228.802	13.001	11.766	15.853
Co	231.160	112.40	115.06	113.67
Cr	267.716	57.667	48.126	57.472
Cu	324.754	-516.82	-510.50	-522.18
Fe	261.382	287695	286981	286071
K	728.181	79.142	112.82	86.437
Li	610.365	-10256	-10189	-10180
Mg	279.078	441502	440707	439575

El	Wavelen.	Replicates Intensity (c/s)		
Mn	293.305	116.09	103.28	102.88
Mo	202.032	0.21590	-0.46479	-0.58545
Na	589.592	6196.4	6190.2	6176.2
Na	568.821	1598.4	1580.3	1602.2
Ni	221.648	9.5475	8.2432	12.618
Pb	220.353	174.74	172.71	175.86
Sb	217.582	-15.085	-20.169	-12.418
Se	196.026	3.4879	1.3509	0.76323
Si	251.611	56.179	48.955	55.891
Sn	189.927	0.53538	2.0942	2.4935
Sr	216.596	224.75	220.76	216.37
Ti	322.284	65.496	54.834	57.070
Tl	190.794	-17.640	-21.092	-20.079
V	289.164	55.539	64.848	61.779
Y	361.104	150689	151071	151893
Zn	206.200	5.7517	5.4480	6.2054
Zr	257.147	71.601	82.600	76.494

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	-0.000761u	ppm	0.000149	19.6	-19.002	-0.000761 ppm	Y 361.104	-0.00076
Al	237.312	517.86	ppm	2.5328	0.5	301020	517.86 ppm	Y 361.104	-
As	188.980	-0.000810u	ppm	0.010577	1305.5	-0.23355	-0.000810 ppm	Y 361.104	-0.00081
B	249.772	0.072583u	ppm	0.002489	3.4	-240.21	0.072583 ppm	Y 361.104	0.07258
Ba	233.527	0.004471	ppm	0.000101	2.3	244.52	0.004471 ppm	Y 361.104	0.00447
Be	234.861	-0.006288u	ppm	0.000922	14.7	-1978.6	-0.006288 ppm	Y 361.104	-0.00629
Ca	315.887	477.66	ppm	1.6071	0.3	2401195	477.66 ppm	Y 361.104	-
Cd	228.802	0.001849	ppm	0.000277	15.0	13.540	0.001849 ppm	Y 361.104	0.00185
Co	231.160	0.003402	ppm	0.000234	6.9	113.71	0.003402 ppm	Y 361.104	0.00340
Cr	267.716	0.002066	ppm	0.000219	10.6	54.422	0.002066 ppm	Y 361.104	0.00207
Cu	324.754	-0.000801u	ppm	0.000182	22.7	-516.50	-0.000801 ppm	Y 361.104	-0.00080
Fe	261.382	188.57	ppm	0.53499	0.3	286916	188.57 ppm	Y 361.104	-
K	728.181	-0.001845u	ppm	0.002196	119.0	92.801	-0.001845 ppm	Y 361.104	-0.00185
Li	610.365	0.057150u	ppm	0.001044	1.8	-10208	0.057150 ppm	Y 361.104	0.05715K
Mg	279.078	497.97	ppm	1.0947	0.2	440594	497.97 ppm	Y 361.104	-
Mn	293.305	0.009369	ppm	0.000688	7.3	107.42	0.009369 ppm	Y 361.104	0.00937
Mo	202.032	-0.002963u	ppm	0.000098	3.3	-0.27812	-0.002963 ppm	Y 361.104	-0.00296
Na	589.592	0.057813	ppm	0.000123	0.2	6187.6	0.057813 ppm	Y 361.104	0.05781
Ni	221.648	0.006537	ppm	0.001480	22.6	10.136	0.006537 ppm	Y 361.104	0.00654
Pb	220.353	-0.005392	ppm	0.000961	17.8	174.44	-0.005392 ppm	Y 361.104	-0.00539

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Sb	217.582	-0.001365u	ppm	0.006297	461.2	-15.890	-0.001365 ppm	Y 361.104	-0.00137
Se	196.026	-0.029263u	ppm	0.004946	16.9	1.8673	-0.029263 ppm	Y 361.104	-0.02926K
Si	251.611	0.006984u	ppm	0.001946	27.9	53.675	0.006984 ppm	Y 361.104	0.00698
Sn	189.927	0.000789u	ppm	0.001216	154.1	1.7077	0.000789 ppm	Y 361.104	0.00079
Sr	216.596	-0.000284	ppm	0.000799	281.9	220.63	-0.000284 ppm	Y 361.104	-0.00028
Ti	322.284	-0.001921u	ppm	0.000774	40.3	59.134	-0.001921 ppm	Y 361.104	-0.00192
Tl	190.794	0.002882u	ppm	0.003647	126.5	-19.604	0.002882 ppm	Y 361.104	0.00288
V	289.164	-0.002351	ppm	0.000844	35.9	60.722	-0.002351 ppm	Y 361.104	-0.00235
Zn	206.200	0.002189	ppm	0.000347	15.9	5.8017	0.002189 ppm	Y 361.104	0.00219
Zr	257.147	0.006977	ppm	0.000583	8.4	76.898	0.006977 ppm	Y 361.104	0.00698

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.87402	151218	615.397	0.4

ICS-AB (ICSAB) **9/25/01, 10:30:57 PM** **Rack 1, Tube 32**

El	Wavelen.	Replicates Intensity (c/s)			
Ag	328.068	5870.0	5874.4	6154.4	
Al	237.312	301530	303149	316641	
As	188.980	38.746	36.168	38.260	
B	249.772	-256.92	-227.57	-241.53	
Ba	233.527	17580	17596	18389	
Be	234.861	25610	25492	26841	
Ca	315.887	2386494	2393968	2504953	
Cd	228.802	8018.2	8051.0	8320.5	
Co	231.160	2779.9	2801.3	2970.7	
Cr	267.716	12028	12078	12629	
Cu	324.754	16543	16572	16866	
Fe	261.382	285445	286157	299224	
K	728.181	99.889	102.33	99.759	
Li	610.365	-10161	-10076	-10736	
Mg	279.078	439062	441186	460226	
Mn	293.305	5351.4	5349.1	5608.7	
Mo	202.032	-1.9416	0.55326	-1.0431	
Na	589.592	8268.6	8343.7	8794.8	
Na	568.821	1569.2	1573.7	1687.2	
Ni	221.648	1394.5	1399.8	1465.0	
Pb	220.353	1708.1	1730.8	1798.2	
Sb	217.582	376.59	389.96	402.17	
Se	196.026	10.936	16.671	16.086	

El	Wavelen.	Replicates Intensity (c/s)			
Si	251.611	127.47	123.67	128.08	
Sn	189.927	0.40059	1.5816	-0.036046	
Sr	216.596	219.95	214.04	226.78	
Ti	322.284	57.864	53.507	59.903	
Tl	190.794	27.463	27.241	23.100	
V	289.164	2820.1	2826.1	2952.2	
Y	361.104	153324	153397	149501	
Zn	206.200	1027.7	1017.4	1080.9	
Zr	257.147	77.318	86.296	73.129	

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.21920	ppm	0.005987	2.7	5966.3	0.21920 ppm	Y 361.104	109.59766
Al	237.312	528.33	ppm	14.273	2.7	307107	528.33 ppm	Y 361.104	105.66654
As	188.980	0.095133	ppm	0.003467	3.6	37.725	0.095133 ppm	Y 361.104	95.13264
B	249.772	0.073743u	ppm	0.001344	1.8	-242.01	0.073743 ppm	Y 361.104	-
Ba	233.527	0.50788	ppm	0.013207	2.6	17855	0.50788 ppm	Y 361.104	101.57632
Be	234.861	0.52262	ppm	0.014127	2.7	25981	0.52262 ppm	Y 361.104	104.52411
Ca	315.887	483.09	ppm	13.203	2.7	2428471	483.09 ppm	Y 361.104	96.61742
Cd	228.802	1.0764	ppm	0.021961	2.0	8129.9	1.0764 ppm	Y 361.104	107.64009
Co	231.160	0.48192	ppm	0.018385	3.8	2850.6	0.48192 ppm	Y 361.104	96.38330
Cr	267.716	0.49121	ppm	0.013375	2.7	12245	0.49121 ppm	Y 361.104	98.24295
Cu	324.754	0.53343	ppm	0.005564	1.0	16660	0.53343 ppm	Y 361.104	106.68547
Fe	261.382	190.77	ppm	5.0988	2.7	290275	190.77 ppm	Y 361.104	95.38651
K	728.181	-0.000866u	ppm	0.000179	20.7	100.66	-0.000866 ppm	Y 361.104	-
Li	610.365	0.057967u	ppm	0.009031	15.6	-10324	0.057967 ppm	Y 361.104	-
Mg	279.078	505.01	ppm	13.172	2.6	446825	505.01 ppm	Y 361.104	101.00282
Mn	293.305	0.49755	ppm	0.013672	2.7	5436.4	0.49755 ppm	Y 361.104	99.51056
Mo	202.032	-0.003084u	ppm	0.000287	9.3	-0.81047	-0.003084 ppm	Y 361.104	-
Na	589.592	0.075530	ppm	0.003382	4.5	8469.0	0.075530 ppm	Y 361.104	-
Ni	221.648	0.93568	ppm	0.025879	2.8	1419.7	0.93568 ppm	Y 361.104	93.56771
Pb	220.353	0.93970	ppm	0.028227	3.0	1745.7	0.93970 ppm	Y 361.104	93.96952
Sb	217.582	0.64839	ppm	0.020461	3.2	389.58	0.64839 ppm	Y 361.104	-
Se	196.026	0.014223	ppm	0.010886	76.5	14.564	0.014223 ppm	Y 361.104	28.44520
Si	251.611	0.042322	ppm	0.001135	2.7	126.41	0.042322 ppm	Y 361.104	-
Sn	189.927	-0.000306u	ppm	0.000983	321.0	0.64870	-0.000306 ppm	Y 361.104	-
Sr	216.596	-0.000418	ppm	0.001215	290.4	220.26	-0.000418 ppm	Y 361.104	-
Ti	322.284	-0.002163u	ppm	0.000450	20.8	57.091	-0.002163 ppm	Y 361.104	-
Tl	190.794	0.094363	ppm	0.005049	5.4	25.935	0.094363 ppm	Y 361.104	94.36310
V	289.164	0.49853	ppm	0.013260	2.7	2866.1	0.49853 ppm	Y 361.104	99.70516

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El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Zn	206.200	0.94469	ppm	0.031038	3.3	1042.0	0.94469 ppm	Y 361.104	94.46944
Zr	257.147	0.007177	ppm	0.000712	9.9	78.914	0.007177 ppm	Y 361.104	-

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.87897	152074	2228.721	1.5

CCV (CCV) 9/25/01, 10:34:12 PM Rack 1, Tube 33

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	27082	27949	26054
Al	237.312	2953.0	3044.9	2806.6
As	188.980	1980.6	2055.9	1929.9
B	249.772	22560	23186	21699
Ba	233.527	172895	179198	166445
Be	234.861	268403	278795	258547
Ca	315.887	247328	257036	238095
Cd	228.802	38346	39573	36795
Co	231.160	28074	29185	26952
Cr	267.716	122994	127563	118080
Cu	324.754	158068	164734	153313
Fe	261.382	7428.0	7699.7	7136.1
K	728.181	437589	451217	422286
Li	610.365	199459	206645	191441
Mg	279.078	42476	44119	40785
Mn	293.305	54086	56141	52025
Mo	202.032	4396.0	4587.2	4272.3
Na	589.592	4520723	4672427	4347708
Na	568.821	14483	14990	13883
Ni	221.648	7466.8	7742.9	7182.8
Pb	220.353	8188.9	8475.9	7876.9
Sb	217.582	639.84	652.00	606.77
Se	196.026	1445.5	1502.4	1395.9
Si	251.611	10871	11274	10455
Sn	189.927	4247.0	4352.2	3976.0
Sr	216.596	25941	26790	24563
Ti	322.284	36334	37436	34694
Tl	190.794	2397.5	2492.2	2305.0
V	289.164	27867	28851	26729
Y	361.104	167041	164108	172553
Zn	206.200	5474.2	5691.5	5251.0

El	Wavelen.	Replicates Intensity (c/s)		
Zr	257.147	47129	48862	45318

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.98139	ppm	0.034857	3.6	27029	0.98139 ppm	Y 361.104	98.13860
Al	237.312	5.0333	ppm	0.20676	4.1	2934.8	5.0333 ppm	Y 361.104	100.66570
As	188.980	5.0324	ppm	0.16050	3.2	1988.8	5.0324 ppm	Y 361.104	100.64716
B	249.772	2.0478	ppm	0.068342	3.3	22481	2.0478 ppm	Y 361.104	102.38938
Ba	233.527	4.9384	ppm	0.18229	3.7	172846	4.9384 ppm	Y 361.104	98.76752
Be	234.861	5.0780	ppm	0.19141	3.8	268582	5.0780 ppm	Y 361.104	101.56036
Ca	315.887	49.195	ppm	1.8850	3.8	247486	49.195 ppm	Y 361.104	98.38923
Cd	228.802	5.0704	ppm	0.18432	3.6	38238	5.0704 ppm	Y 361.104	101.40889
Co	231.160	4.9439	ppm	0.19637	4.0	28071	4.9439 ppm	Y 361.104	98.87707
Cr	267.716	4.9304	ppm	0.19030	3.9	122879	4.9304 ppm	Y 361.104	98.60786
Cu	324.754	4.9336	ppm	0.17828	3.6	158705	4.9336 ppm	Y 361.104	98.67112
Fe	261.382	4.9145	ppm	0.18522	3.8	7421.3	4.9145 ppm	Y 361.104	98.29064
K	728.181	52.489	ppm	1.6874	3.2	437031	52.489 ppm	Y 361.104	104.97752
Li	610.365	5.0291	ppm	0.19132	3.8	199181	5.0291 ppm	Y 361.104	100.58205
Mg	279.078	47.988	ppm	1.8840	3.9	42460	47.988 ppm	Y 361.104	95.97689
Mn	293.305	4.9541	ppm	0.18851	3.8	54084	4.9541 ppm	Y 361.104	99.08244
Mo	202.032	1.0017	ppm	0.036078	3.6	4418.5	1.0017 ppm	Y 361.104	100.17480
Na	589.592	52.182	ppm	1.8361	3.5	4513620	52.182 ppm	Y 361.104	104.36448
Ni	221.648	4.9119	ppm	0.18455	3.8	7464.2	4.9119 ppm	Y 361.104	98.23892
Pb	220.353	4.9352	ppm	0.18061	3.7	8180.5	4.9352 ppm	Y 361.104	98.70313
Sb	217.582	1.0213	ppm	0.037429	3.7	632.87	1.0213 ppm	Y 361.104	102.13259
Se	196.026	4.9915	ppm	0.18373	3.7	1447.9	4.9915 ppm	Y 361.104	99.82986
Si	251.611	5.1489	ppm	0.19498	3.8	10867	5.1489 ppm	Y 361.104	102.97756
Sn	189.927	4.9214	ppm	0.22805	4.6	4191.8	4.9214 ppm	Y 361.104	98.42719
Sr	216.596	4.9131	ppm	0.21426	4.4	25765	4.9131 ppm	Y 361.104	98.26225
Ti	322.284	4.9632	ppm	0.18986	3.8	36155	4.9632 ppm	Y 361.104	99.26388
Tl	190.794	4.8999	ppm	0.19229	3.9	2398.3	4.8999 ppm	Y 361.104	97.99785
V	289.164	4.9648	ppm	0.18879	3.8	27816	4.9648 ppm	Y 361.104	99.29636
Zn	206.200	4.9677	ppm	0.20058	4.0	5472.2	4.9677 ppm	Y 361.104	99.35367
Zr	257.147	4.9878	ppm	0.18761	3.8	47103	4.9878 ppm	Y 361.104	99.75626

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	0.97045	167901	4287.488	2.6

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BLA01 (CCB) **9/25/01, 10:37:27 PM** **Rack 1, Tube 34**

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	0.73973	1.3425	0.67601
Al	237.312	-2.9267	0.43993	-4.0900
As	188.980	0.63636	-0.71091	0.89525
B	249.772	510.13	508.91	501.96
Ba	233.527	85.473	89.618	81.087
Be	234.861	-6.4868	-1.1197	1.5771
Ca	315.887	381.24	379.57	389.62
Cd	228.802	0.37679	0.46285	1.1916
Co	231.160	12.175	11.208	8.6156
Cr	267.716	8.5491	15.140	12.245
Cu	324.754	28.916	31.853	33.685
Fe	261.382	11.958	8.2721	6.1593
K	728.181	81.766	87.967	65.694
Li	610.365	605.92	596.55	601.32
Mg	279.078	0.095052	4.0670	3.3251
Mn	293.305	2.3754	1.2775	0.98016
Mo	202.032	12.273	14.848	11.242
Na	589.592	1063.4	1124.0	1183.6
Na	568.821	-342.81	-303.72	-298.83
Ni	221.648	-0.18834	-0.13237	-0.070865
Pb	220.353	-0.93161	0.28247	-4.0189
Sb	217.582	1.2891	-2.3452	-4.7935
Se	196.026	1.3206	1.7447	2.0513
Si	251.611	53.691	54.001	54.108
Sn	189.927	0.38651	1.5574	1.6402
Sr	216.596	-2.2810	2.5368	-1.2541
Ti	322.284	71.488	71.707	73.730
Tl	190.794	-0.32167	0.83460	2.3904
V	289.164	-0.17233	-3.7291	0.50529
Y	361.104	175708	175784	177388
Zn	206.200	3.7955	3.2801	3.2750
Zr	257.147	10.912	6.7479	8.1040

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ag	328.068	0.000022	ppm	0.000014	61.6	0.91940	0.000022 ppm	Y 361.104	0.00002
Al	237.312	-0.000972u	ppm	0.004047	416.4	-2.1923	-0.000972 ppm	Y 361.104	-0.00097
As	188.980	0.000473u	ppm	0.002183	461.4	0.27357	0.000473 ppm	Y 361.104	0.00047
B	249.772	0.033226	ppm	0.000404	1.2	507.00	0.033226 ppm	Y 361.104	0.03323

El	Wavelen.	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.	IS	QC Value
Ba	233.527	-0.000076u	ppm	0.000122	159.5	85.393	-0.000076 ppm	Y 361.104	-0.00008
Be	234.861	0.000007u	ppm	0.000078	1097.2	-2.0098	0.000007 ppm	Y 361.104	0.00001
Ca	315.887	0.001222	ppm	0.001072	87.7	383.48	0.001222 ppm	Y 361.104	0.00122
Cd	228.802	0.000151	ppm	0.000059	39.3	0.67708	0.000151 ppm	Y 361.104	0.00015
Co	231.160	0.000277u	ppm	0.000324	117.0	10.666	0.000277 ppm	Y 361.104	0.00028
Cr	267.716	0.000363	ppm	0.000133	36.5	11.978	0.000363 ppm	Y 361.104	0.00036
Cu	324.754	-0.000134u	ppm	0.000075	55.9	31.485	-0.000134 ppm	Y 361.104	-0.00013
Fe	261.382	-0.001227u	ppm	0.001929	157.2	8.7963	-0.001227 ppm	Y 361.104	-0.00123
K	728.181	-0.003623u	ppm	0.001425	39.3	78.476	-0.003623 ppm	Y 361.104	-0.00362
Li	610.365	0.000092u	ppm	0.000118	128.8	601.26	0.000092 ppm	Y 361.104	0.00009
Mg	279.078	0.001633u	ppm	0.002387	146.2	2.4957	0.001633 ppm	Y 361.104	0.00163
Mn	293.305	-0.000330u	ppm	0.000067	20.4	1.5443	-0.000330 ppm	Y 361.104	-0.00033
Mo	202.032	0.000008u	ppm	0.000422	5509.4	12.788	0.000008 ppm	Y 361.104	0.00001
Na	589.592	-0.002284u	ppm	0.000714	31.3	1123.7	-0.002284 ppm	Y 361.104	-0.00228
Ni	221.648	-0.000229u	ppm	0.000039	16.9	-0.13052	-0.000229 ppm	Y 361.104	-0.00023
Pb	220.353	0.000594u	ppm	0.001337	225.2	-1.5560	0.000594 ppm	Y 361.104	0.00059
Sb	217.582	-0.000384u	ppm	0.004894	1274.7	-1.9499	-0.000384 ppm	Y 361.104	-0.00038
Se	196.026	0.002879	ppm	0.001266	44.0	1.7055	0.002879 ppm	Y 361.104	0.00288
Si	251.611	0.000656	ppm	0.000103	15.7	53.933	0.000656 ppm	Y 361.104	0.00066
Sn	189.927	0.000189u	ppm	0.000824	435.6	1.1947	0.000189 ppm	Y 361.104	0.00019
Sr	216.596	0.000106u	ppm	0.000484	455.4	-0.33275	0.000106 ppm	Y 361.104	0.00011
Ti	322.284	-0.000106u	ppm	0.000170	160.0	72.309	-0.000106 ppm	Y 361.104	-0.00011
Tl	190.794	0.003819	ppm	0.002797	73.2	0.96779	0.003819 ppm	Y 361.104	0.00382
V	289.164	-0.000274u	ppm	0.000405	147.4	-1.1321	-0.000274 ppm	Y 361.104	-0.00027
Zn	206.200	0.000052u	ppm	0.000272	524.7	3.4502	0.000052 ppm	Y 361.104	0.00005
Zr	257.147	-0.000254u	ppm	0.000225	88.5	8.5879	-0.000254 ppm	Y 361.104	-0.00025

El	Wavelen.	Ratio	Int. (c/s)	SD(Int)	%RSD
Y	361.104	1.0190	176293	948.615	0.5

A567114 (Samp) **9/25/01, 10:40:43 PM** **Rack 1, Tube 35**

Weight: 1 Volume: 1 Dilution: 1

El	Wavelen.	Replicates Intensity (c/s)		
Ag	328.068	-8.6142	-1.7279	-20.284
Al	237.312	69.343	72.920	72.933
As	188.980	4.9233	5.3625	3.1360
B	249.772	6579.0	6603.6	6698.8
Ba	233.527	489.88	489.52	481.19
Be	234.861	-166.60	-167.26	-157.92

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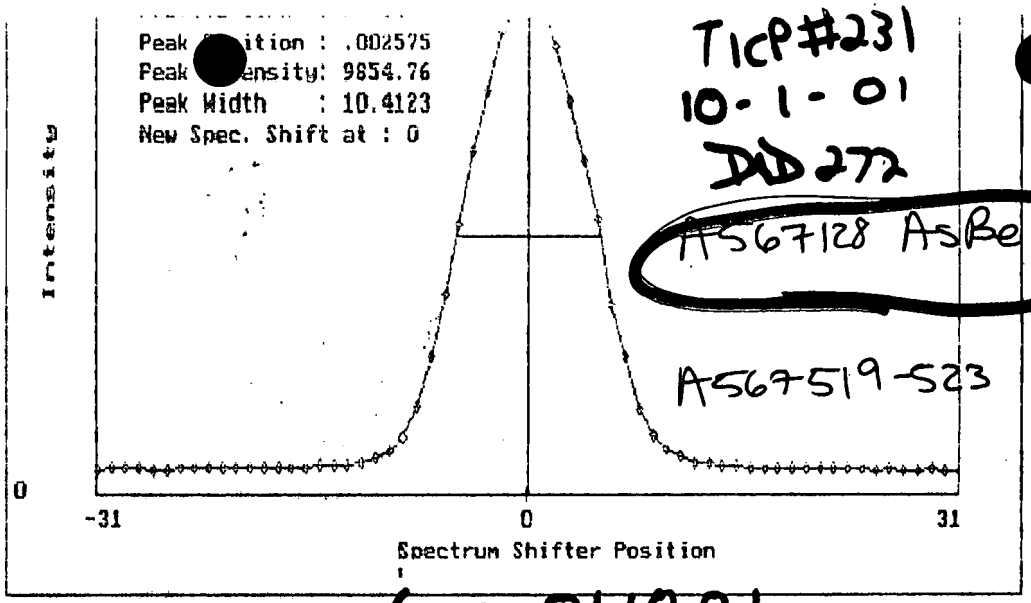


TICP#231
10-1-01
DD272
A567128 As Be Pb
A567519-523 As
trace011001

Standardization Rpt. 10/01/01 02:13:13 PM page 1

Method: IEC_2001 Standard: SIDI Blank
Run Time : 10/01/01 [illegible]

Elem	As18[illegible]	Tl1908	Cr2677	Sb2068	Ag3280	V_2924	E[illegible]0
Avge	-.02651	-.04952	.01041	.04489	-.04264	.00005	1.[illegible]89
SDev	.00001	.01553	.00442	.00802	.01621	.00054	.0015
%RSD	.04383	31.368	42.498	17.863	38.012	1001.9	.09577
#1	-.02652	-.03854	.01353	.05056	-.03118	.00043	1.5878
#2	-.02651	-.06051	.00728	.03922	-.05410	-.00033	1.5899

Elem	Co2286	Mn2576	Fe2714	Al3082	Ca3179	Mg2790	2265-1
Avge	-.00298	.00011	.00168	.19297	.00217	.00146	-.01947
SDev	.00039	.00000	.00207	.00083	.00015	.00115	.00534
%RSD	13.100	.24538	123.11	.43014	6.8263	78.398	27.418
#1	-.00271	.00011	.00314	.19356	.00227	.00227	-.01570
#2	-.00326	.00011	.00022	.19239	.00206	.00065	-.02325

Elem	2265-2	2203-1	2203-2	1960-1	1960-2
Avge	-.16485	.15406	-.01056	-.04718	.04233
SDev	.01252	.01502	.01431	.00564	.01056
%RSD	7.5949	9.7520	135.60	11.948	24.932
#1	-.15600	.14344	-.02068	-.04319	.04980
#2	-.17370	.16469	-.00043	-.05117	.03487

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	[illegible]	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9221	--	--	--	--	--	--
SDev	22.62742	--	--	--	--	--	--
%RSD	.2453794	--	--	--	--	--	--
#1	9237	--	--	--	--	--	--
#2	9205	--	--	--	--	--	--

Method: IEC_2001 Standard: STD2
Run Time: 10/01/01 14:13:17

Elem	As1890	Tl1908	Sb2068	Ag3280	Be3130	Co2286	2265-1
Avge	3.5327	1.4445	5.5525	7.0408	231.89	.57812	20.997
SDev	.0021	.0217	.0454	.0144	.53	.00091	.015
%RSD	.05823	1.5019	.81801	.20465	.22931	.15762	.06993
#1	3.5341	1.4292	5.5204	7.0307	232.27	.57876	21.007
#2	3.5312	1.4599	5.5846	7.0510	231.52	.57747	20.986

Elem	2265-2	2203-1	2203-2	1960-1	1960-2
Avge	81.041	4.8239	7.3686	1.7691	2.4999
SDev	.629	.0733	.0855	.0371	.0273
%RSD	.77669	1.5196	1.1606	2.0952	1.0933
#1	80.596	4.7721	7.4291	1.7429	2.5192
#2	81.486	4.8757	7.3082	1.7953	2.4806

IntStd 1 2 3 4 5 6 7

Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9217	--	--	--	--	--	--
SDev	16.05077	--	--	--	--	--	--
%RSD	.1741441	--	--	--	--	--	--
#1	9228	--	--	--	--	--	--
#2	9206	--	--	--	--	--	--

Method: IEC_2001 Standard: STD3
Run Time: 10/01/01 14:17:33

Elem	Cr2677
Avge	5.2346
SDev	.0011
%RSD	.02194
#1	5.2338
#2	5.2354

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9306	--	--	--	--	--	--
SDev	35.00178	--	--	--	--	--	--
%RSD	.3762227	--	--	--	--	--	--
#1	9331	--	--	--	--	--	--
#2	9281	--	--	--	--	--	--

Method: IEC_2001 Standard: STD5
Run Time: 10/01/01 14:20:49

Elem	V_2924	Mn2576
Avge	.21817	.14154
SDev	.00069	.00093
%RSD	.31557	.66025
#1	.21866	.14221
#2	.21768	.14088

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9481	--	--	--	--	--	--
SDev	52.60833	--	--	--	--	--	--
%RSD	.5548641	--	--	--	--	--	--
#1	9444	--	--	--	--	--	--
#2	9518	--	--	--	--	--	--

Method: IEC_2001 Standard: STD4
Run Time: 10/01/01 14:4[illegible]

Elem	Fe27[illegible]	Al3082	Ca3179	Mg2790
Avge	73.0[illegible]	120.64	72.584	277.09
SDev	.115	.13	.014	.22
%RSD	.15752	.10463	.01964	.07773
#1	72.967	120.73	72.574	276.94
#2	73.130	120.55	72.594	277.24

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	8517	--	--	--	--	--	--
SDev	33.87000	--	--	--	--	--	--
%RSD	.3976589	--	--	--	--	--	--
#1	8541	--	--	--	--	--	--
#2	8493	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TCCV Operator: DAD
Run Time: 10/01/01 14:27:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.09583	.09631	.09634	.09727	.09913	.09332	.10377
SDev	.00069	.00111	.00085	.00033	.00140	.00020	.00185
%RSD	.72358	1.1473	.88212	.33840	1.4111	.21303	1.7819
#1	.09632	.09710	.09694	.09751	.10012	.09318	.10508
#2	.09534	.09553	.09574	.09704	.09814	.09346	.10246

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.10118	.10149	.09909	.09910	.09790	.06907	.03676
SDev	.00095	.00034	.00011	.00084	.00020	.00783	.00973
%RSD	.94308	.33189	.11239	.84749	.20224	11.333	26.456
#1	.10186	.10126	.09917	.09969	.09776	.07460	.04364
#2	.10051	.10173	.09901	.09850	.09804	.06353	.02989

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.06717	.04310	.09857	.09663	.08943	.09975	.08476
SDev	.00465	.00543	.00075	.00012	.00251	.00291	.00170
%RSD	6.9270	12.605	.76205	.12265	2.8049	2.9164	2.0046
#1	.07046	.04694	.09910	.09671	.08766	.10181	.08356
#2	.06388	.03925	.09804	.09654	.09121	.09769	.08596

Elem	1960-2
Avge	.10212
SDev	.00212
%RSD	2.0782
#1	.10363
#2	.10062

IntStd	1	2		4	5	6	7
Mode	Cou	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	SED
Elem	Y	--	--	--	--	--	
Wavlen	371.030	--	--	--	--	--	--
Avge	8978	--	--	--	--	--	--
SDev	34.15312	--	--	--	--	--	--
%RSD	.3804069	--	--	--	--	--	--
#1	8954	--	--	--	--	--	--
#2	9002	--	--	--	--	--	--

Method: IEC_2001 Sample Name: BLA01 Operator: DAD
Run Time: 10/01/01 14:32:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	-.00262	-.00035	-.00062	.00004	H.00512	-.00086	-.00085
SDev	.00188	.00217	.00330	.00015	.00220	.00194	.00286
%RSD	71.791	614.04	529.62	366.58	42.969	225.67	335.13
#1	-.00395	.00118	.00171	-.00007	.00356	L-.00223	-.00288
#2	-.00129	-.00189	-.00296	.00015	H.00667	.00051	.00117

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	-.00107	.00063	.00003	.00008	-.00005	.02318	.03382
SDev	.00193	.00143	.00001	.00049	.00005	.03757	.04910
%RSD	181.[illegible]	[illegible].14	19.281	620.77	92.567	162.11	145.21
#1	L-.00243	-.00164	.00003	-.00027	-.00002	-.00339	-.00091
#2	.00030	.00037	.00002	.00043	-.00008	04975	.06854

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.05072	.04094	-.00041	.00027	.00463	-.00284	.00457
SDev	.05322	.04985	.00079	.00016	.01115	.00232	.01152
%RSD	104.93	121.75	191.81	61.292	241.05	81.578	252.09
#1	.01309	.00569	-.00097	.00038	.01251	-.00448	.01272
#2	.08835	.07619	.00015	.00015	-.00326	-.00120	-.00358

Elem	1960-2
Avge	-.00322
SDev	.00080
%RSD	24.873
#1	-.00378
#2	-.00265

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9182	--	--	--	--	--	--
SDev	124.4508	--	--	--	--	--	--
%RSD	1.355319	--	--	--	--	--	--

#1	9094	--	--	--	--	--
#2	9270	--	--	--	--	--

Method: IEC_2001 Sample Name: TICV01-19 Operator: DAD
Run Time: 10/01/01 14:36:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	L.04611	L.04624	.04891	L.04632	.05098	L.04607	.04838
SDev	.00123	.00051	.00062	.00001	.00136	00086	.00242
%RSD	2.6616	1.1110	1.2699	.02671	2.6712	1.8717	4.9937
#1	L.04524	L.04588	.04935	L.04633	.05194	L.04668	.05009
#2	L.04698	L.04661	.04847	L.04631	.05002	L.04546	L.04667

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.00057	.04961	L.04612	.04748	.04841	.07677	.00358
SDev	.00097	.00060	.00009	.00022	.00015	.01517	.01959
%RSD	169.32	1.2151	.20429	.47129	.31782	19.754	546.70
#1	.00126	.05003	L.04619	.04732	.04852	.06605	-.01027
#2	-.00011	.04918	L.04605	.04764	.04830	.08750	.01743

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.06406	.05711	.04690	.04603	.04223	.04825	.04589
SDev	.01431	.01674	.00038	.00017	00720	.00283	.00077
%RSD	22.3[illegible]	[illegible]307	.80510	.36924	17.057	[illegible].8570	1.6823
#1	.05393	.04528	.04716	.04591	03714	.05025	.04644
#2	.07418	.06895	.04663	.04615	.04732	.04625	.04535

Elem	1960-2
Avge	.05042
SDev	.00055
%RSD	1.0833
#1	.05081
#2	.05003

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9289	--	--	--	--	--	--
SDev	18.17209	--	--	--	--	--	--
%RSD	.1956313	--	--	--	--	--	--
#1	9302	--	--	--	--	--	--
#2	9276	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TICV01-07 Operator: DAD
Run Time: 10/01/01 14:40:37
Comment:

Mode: CONC Corr. Factor: 1

Elem	[illegible]	Pb2203	[illegible]	[illegible]	Tl1908	[illegible]	[illegible]
Avge	-.00[illegible]	-.00002	-.00330	.00007	.00439	-.00091	[illegible]27
SDev	.00[illegible]	.00005	.00171	.00004	.00022	.00118	[illegible]16
%RSD	73.804	231.06	51.702	60.558	5.1306	128.73	12.713
#1	-.00092	-.00006	-.00451	.00004	.00455	-.00174	.00138
#2	-.00294	.00001	-.00210	.00009	.00423	-.00008	.00116

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.04751	-.00111	.00001	.00081	-.00005	.01023	.08793
SDev	.00179	.00174	.00000	.00013	.00000	.00438	.00513
%RSD	3.7716	157.20	77.846	15.734	6.8886	42.826	5.8337
#1	.04624	-.00234	.00001	.00072	-.00006	.00713	.08431
#2	.04878	.00012	.00000	.00090	-.00005	.01333	.09156

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.01091	.00617	.00049	-.00014	-.00600	.00296	-.00481
SDev	.00526	.00726	.00106	.00059	.01203	.00593	.00826
%RSD	48.228	117.76	217.96	408.20	200.37	200.02	171.59
#1	.00719	.00103	.00124	-.00056	-.01451	.00715	-.01065
#2	.01463	.01130	-.00026	.00027	.00250	-.00123	.00103

Elem	1960-2
Avge	-.00255
SDev	.00156
%RSD	61.2[illegible]
#1	-.00144
#2	-.00365

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9330	--	--	--	--	--	--
SDev	14.21257	--	--	--	--	--	--
%RSD	.1523377	--	--	--	--	--	--
#1	9340	--	--	--	--	--	--
#2	9320	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TICV01-47 Operator: DAD
Run Time: 10/01/01 14:44:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00009	.00327	.00205	.00098	.00631	-.00177	.00455
SDev	.00065	.00185	.00466	.00010	.00254	.00047	.00072
%RSD	702.01	56.536	227.73	10.357	40.273	26.654	15.908
#1	.00056	.00458	.00534	.00105	.00451	-.00143	.00507
#2	-.00037	.00196	-.00125	.00091	.00811	-.00210	.00404

Elem	Ag3280	V_2924	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Avge	-.0[illegible]	.00098	.00014	.00177	-.00091	97.369	[illegible]58
SDev	.0[illegible]	.00056	.00002	.00015	.00003	.576	[illegible]86
%RSD	4.1744	57.290	14.346	8.1713	3.8509	.59131	[illegible]5504
#1	-.00347	.00137	.00016	.00167	-.00088	97.776	243.19
#2	-.00327	.00058	.00013	.00188	-.00093	96.961	241.97

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	243.50	232.35	.00036	.00128	.04846	-.01929	.00181
SDev	1.05	1.42	.00046	.00008	.00605	.00025	.00453
%RSD	.43268	.60907	126.55	6.0630	12.479	1.2852	249.44
#1	244.24	233.36	.00069	.00123	.05274	-.01947	.00501
#2	242.75	231.35	.00004	.00134	.04418	-.01912	-.00139

Elem	1960-2
Avge	.00216
SDev	.00473
%RSD	218.63
#1	.00551
#2	-.00118

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	8823[illegible]	--	--	--	--	--	--
SDev	51.19412[illegible]	--	--	--	--	--	--
%RSD	.5802479[illegible]	--	--	--	--	--	--
#1	8787	--	--	--	--	--	--
#2	8859	--	--	--	--	--	--

Method: IEC_2001 Sample Name: BLA01 Operator: DAD
Run Time: 10/01/01 14:49:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00041	-.00006	-.00065	.00017	.00342	-.00043	.00411
SDev	.00112	.00154	.00023	.00021	.00018	.00087	.00224
%RSD	276.01	2520.4	34.891	123.75	5.2428	202.18	54.570
#1	-.00039	.00103	-.00049	.00033	.00330	-.00105	.00253
#2	.00120	-.00115	-.00081	.00002	.00355	.00019	H.00570

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	-.00042	-.00062	.00004	H.00140	.00033	.04231	.04064
SDev	.00128	.00106	.00004	.00021	.00002	.00989	.00086
%RSD	307.37	169.37	100.79	15.014	7.0617	23.371	2.1207
#1	-.00132	L-.00137	.00007	H.00125	.00035	.03532	.04125
#2	.00049	.00012	.00001	H.00155	.00031	.04931	.04003

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1

SDev	.0111	.01205	00017	00006	.00533	.00497	.0061
%RSD	27.8	27.905	127.33	150.99	107.60	208.75	75
#1	.03228	.03466	00114	-.00008	-.00872	.00590	-.00522
#2	.04811	.05170	.00006	.00000	-.00118	-.00113	.00350

Elem	1960-2
Avge	-.00055
SDev	.00342
%RSD	620.90
#1	.00187
#2	-.00297

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9294	--	--	--	--	--	--
SDev	145.5224	--	--	--	--	--	--
%RSD	1.565751	--	--	--	--	--	--
#1	9191	--	--	--	--	--	--
#2	9397	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TDLS Operator: DAD
Run Time: 10/01/01 14:53:22
Comment:
Mode: CONC Corr Factor: 1

Elem	Ag1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00532	.00611	.00579	.00103	.01003	.00006	.00646
SDev	.00039	.00180	.00022	.00006	00183	00015	.00394
%RSD	7.2930	29.472	3.8038	6.0957	18.242	247.74	61.001
#1	.00504	.00484	00595	.00099	.01132	-.00005	.00924
#2	.00559	.00739	.00564	.00108	.00873	.00017	.00367

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.00049	.00025	.00099	.00134	.00101	.02003	.00886
SDev	.00126	.00053	.00005	.00145	.00003	02934	.01216
%RSD	258.38	209.52	5.0781	108.76	2.4857	146.51	139.38
#1	-.00040	-.00012	.00103	.00236	.00099	.04077	.01759
#2	.00137	.00063	.00096	.00031	.00103	-.00072	.00013

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.01883	.01663	.00110	.00100	.00614	.00610	.01033
SDev	.00216	.00669	.00032	.00025	.00714	.00086	.00312
%RSD	11.457	40.243	28.833	25.200	116.30	14.185	30.155
#1	.02036	.02136	.00132	.00082	.00109	.00671	.00813
#2	.01731	.01190	.00087	.00118	.01119	.00549	.01254

Elem	1960-2
Avge	.00353

SDev 00180

%RSD	53.4						
#1	.0048						
#2	.00219						
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9180	--	--	--	--	--	--
SDev	9.474816	--	--	--	--	--	--
%RSD	.1032160	--	--	--	--	--	--
#1	9173	--	--	--	--	--	--
#2	9186	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TCDL01 Operator: DAD
Run Time: 10/01/01 14:57:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.01844	.00487	.00963	.00953	.02266	.01942	.11801
SDev	.00168	.00276	.00184	.00050	.00112	.00101	.00646
%RSD	9.1081	56.695	19.122	5.2259	4.9208	5.1831	5.4761
#1	.01963	.00682	.01094	.00917	.02188	.02013	.11344
#2	.01726	.00292	.00833	.00988	.02345	.01871	.12258
Elem	Ag3280	V2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.02047	.10372	.00919	.09738	.02975	.03665	-.02054
SDev	.00196	.00196	.00047	.00380	.00092	.01045	.01948
%RSD	9.5961	1.8932	5.0999	3.9007	3.0928	28.515	94.881
#1	.02186	.10233	.00886	.09470	.02910	.04404	-.03431
#2	.01908	.10511	.00953	.10007	.03040	.02926	-.00676
Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.01318	.01295	.00938	.00960	.00408	.00526	.01437
SDev	.00173	.00738	.00150	.00000	.01200	.00185	.00335
%RSD	13.092	56.964	16.026	.04045	293.95	35.235	23.288
#1	.01440	.01817	.00831	.00960	.01257	.00395	.01674
#2	.01196	.00773	.01044	.00960	-.00440	.00657	.01201
Elem	1960-2						
Avge	.00727						
SDev	.00109						
%RSD	15.012						
#1	.00804						
#2	.00650						

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--				--

Wavlen	371.[illegible]	--	--	--	--	--	
Avge	942[illegible]	--	--	--	--	--	
SDev	287.[illegible]9	--	--	--	--	--	
%RSD	3.055075	--	--	--	--	--	--
#1	9626	--	--	--	--	--	--
#2	9219	--	--	--	--	--	--

Method: IEC_2001 Sample Name: THMCS Operator: DAD
Run Time: 10/01/01 15:01:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.48568	.48852	.48704	.48366	.49091	-.00050	.48823
SDev	.00020	.00185	.00126	.00110	.00431	.00154	.00497
%RSD	.04142	.37805	.25929	.22681	.87705	304.58	1.0175
#1	.48583	.48721	.48793	.48289	.48786	-.00159	.48471
#2	.48554	.48982	.48614	.48444	.49395	.00058	.49174

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.48630	.00013	.48542	.48555	-.00807	.06277	-.00342
SDev	.00180	.00178	.00025	.00317	.00006	.03693	.01269
%RSD	.37010	1345.5	.05236	.65377	.77408	58.828	370.71
#1	.48503	-.00113	.48524	.48330	-.00803	.03666	-.01240
#2	.48[illegible]	[illegible]00139	.48560	.48779	-.00812	.08888	.00555

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.00656	.00894	.48317	.48391	.48702	.48926	.48109
SDev	.00275	.00885	.00065	.00197	.01282	.00363	.00025
%RSD	41.898	98.994	.13413	.40674	2.6319	.74203	.05225
#1	.00462	.00268	.48363	.48252	.47795	.49183	.48127
#2	.00850	.01519	.48271	.48530	.49608	.48670	.48091

Elem	1960-2
Avge	.49000
SDev	.00177
%RSD	.36077
#1	.49125
#2	.48875

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9134	--	--	--	--	--	--
SDev	34.93066	--	--	--	--	--	--
%RSD	.3824329	--	--	--	--	--	--
#1	9158	--	--	--	--	--	--
#2	9109	--	--	--	--	--	--

Method: IEC_2[illegible] Sample Name: [illegible] Operator: DAD
Run Time: 10/[illegible]1 15:06:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00068	H.01208	.00375	H.00219	.00626	-.00176	.00763
SDev	.00123	.00001	.00428	.00001	.00103	.00166	.00242
%RSD	179.64	.05545	114.27	.49495	16.448	94.633	31.645
#1	.00155	H.01209	.00072	H.00219	.00553	-.00058	.00934
#2	-.00018	H.01208	.00677	H.00218	.00699	-.00293	.00592

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	L-.00652	.00340	.00021	.00106	-.00124	194.68	483.64
SDev	.00197	.00130	.00001	.00059	.00028	1.77	3.31
%RSD	30.247	38.282	3.0443	55.082	22.415	.90947	.68458
#1	L-.00512	.00432	.00021	.00148	-.00104	193.43	481.30
#2	L-.00791	.00248	.00020	.00065	-.00144	195.93	485.98

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	480.87	474.92	-.00025	.00340	.12022	-.04191	.02438
SDev	3.02	4.08	.00123	.00060	.02763	.01381	.01375
%RSD	.62829	.85954	482.74	17.560	22.985	32.943	56.412
#1	478.74	478.03	.00061	.00298	.10068	-.03215	.01465
#2	483.[illegible]	[illegible]7.80	-.00112	.00383	.13976	-.05167	.03410

Elem	1960-2
Avge	-.00655
SDev	.00045
%RSD	6.8236
#1	-.00624
#2	-.00687

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	8542	--	--	--	--	--	--
SDev	79.40795	--	--	--	--	--	--
%RSD	.9295797	--	--	--	--	--	--
#1	8598	--	--	--	--	--	--
#2	8486	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TICS Operator: DAD
Run Time: 10/01/01 15:10:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.09842	.05874	.04784	.93053	.10203	.46485	.60602

SDev	.00015	.00079	.00482	[illegible]	.00180	.00422	.00177

%RSD	.154[illegible]	1.3382	10.080	1.0084	1.7862	.00892	[illegible]
#1	.09832	.05818	.05125	.93716	.10330	.46784	.60727
#2	.09853	.05929	.04443	.92389	.10075	.46186	.60477

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.20793	.52140	.47959	.46461	.48952	196.01	486.04
SDev	.00298	.00310	.00315	.00413	.00312	1.20	2.70
%RSD	1.4336	.59454	.65599	.88844	.63647	.61402	.55483
#1	.21004	.52360	.48182	.46753	.49172	196.86	487.95
#2	.20582	.51921	.47737	.46169	.48731	195.16	484.13

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	482.60	477.10	.93655	.92752	.15061	.01287	.04630
SDev	2.83	3.43	.01045	.00885	.00355	.00295	.00483
%RSD	.58586	.71928	1.1162	.95401	2.3566	22.929	10.442
#1	484.60	479.53	.94394	.93378	.15312	.01078	.04972
#2	480.60	474.67	.92916	.92126	.14810	.01495	.04288

Elem	1960-2
Avge	.04861
SDev	.00482
%RSD	9.9078
#1	.05202
#2	.04521

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	8476	--	--	--	--	--	--
SDev	43.98149	--	--	--	--	--	--
%RSD	.5189127	--	--	--	--	--	--
#1	8445	--	--	--	--	--	--
#2	8507	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TCCV Operator: DAD
Run Time: 10/01/01 15:14:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.09204	.09858	.09806	.09648	.09528	.09292	.10120
SDev	.00036	.00009	.00421	.00012	.00037	.00015	.00239
%RSD	.38979	.09547	4.2975	.12495	.39230	.15636	2.3670
#1	.09179	.09864	.10104	.09656	.09555	.09282	.09951
#2	.09230	.09851	.09508	.09639	.09502	.09303	.10289

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.10099	.10092	.09845	.09728	.09673	.05366	.04708
SDev	.00096	.00131	.00015	.00137	.00071	.01608	.01287

%RSD [illegible]

#1	.10[illegible]	.10184	.09834	.09631	.09623	.04229	[illegible]18
#2	.100[illegible]	.10000	09855	.09825	.09723	.06503	[illegible]98

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.08668	.05971	.09605	.09669	.10622	.09476	.09636
SDev	.01121	.00832	.00061	.00012	.00282	00155	.00575
%RSD	12.937	13.930	.63046	.12575	2.6524	1.6333	5.9707
#1	.09461	.06559	.09648	.09661	.10423	09585	.10042
#2	.07875	.05383	.09562	.09678	.10822	.09367	.09229

Elem	1960-2
Avge	.09891
SDev	.00345
%RSD	3.4837
#1	.10135
#2	.09648

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9018	--	--	--	--	--	--
SDev	36.48644		--	--	--	--	--
%RSD	.4045866		--	--	--	--	--
#1	8992		--	--	--	--	--
#2	9044		--	--	--	--	--

Method: IEC_2001 Sample Name: BLA01 Operator: DAD
Run Time: 10/01/01 15:18:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00095	-.00008	.00018	.00021	.00479	-.00111	.00404
SDev	.00034	.00070	.00330	.00018	.00160	.00028	.00258
%RSD	35.677	852.14	1800.8	86.659	33.337	25.352	63.757
#1	.00119	-.00058	-.00215	.00008	.00366	-.00131	.00222
#2	.00071	.00041	.00251	.00033	H.00591	-.00091	H.00586

Elem	Ag3280	V_2924	Ba3130	Co2286	Mn2576	Fe2714	Al3082
Avge	-.00040	-.00025	00002	.00090	.00031	.03128	.00715
SDev	.00025	.00052	.00006	.00051	.00002	.01355	.00827
%RSD	63.567	212.36	290.70	56.289	5.9159	43.303	115.74
#1	-.00058	-.00061	-.00002	.00054	.00032	.02170	.00130
#2	-.00022	.00012	.00006	H.00126	.00030	.04086	.01300

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.03201	.02962	.00101	-.00019	-.00673	.00324	-.00433
SDev	.00713	.00830	.00102	.00024	.00996	.00602	.00040
%RSD	22.266	28.040	100.89	123.76	148.01	186.02	9.2539

#1	.02[illegible]	.02[illegible]	[illegible]	.00002	[illegible]	[illegible]	[illegible]
#2	.03[illegible]	.03549	.00173	-.00036	-.01377	.00749	[illegible]40[illegible]

Elem	1960-2
Avge	.00243
SDev	.00474
%RSD	194.86
#1	-.00092
#2	.00579

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9323	--	--	--	--	--	--
SDev	66.39691	--	--	--	--	--	--
%RSD	.7122183	--	--	--	--	--	--
#1	9370	--	--	--	--	--	--
#2	9276	--	--	--	--	--	--

Method: IEC_2001 Sample Name: Q1284006 BLA02 Operator: DAD
Run Time: 10/01/01 15:23:09
Comment:
Mode: CONC Corr Factor: 1

Elem	Ag1820	Sb2203	Sc1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00198	.00102	-.00099	.00023	.00189	.00036	.00212
SDev	.00114	.00333	.00073	.00010	.00041	.00002	.00511
%RSD	57.428	327.08	73.522	43.168	21.879	4.1431	240.45
#1	.00118	.00134	-.00048	.00016	.00219	.00035	-.00149
#2	.00279	-.00338	-.00151	.00030	.00160	.00037	H.00573

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.00103	.00074	.00003	.00072	-.00004	.01508	.00807
SDev	.00059	.00017	.00000	.00052	.00001	.00415	.00339
%RSD	56.595	23.539	12.739	71.734	17.620	27.500	42.074
#1	.00145	.00062	.00003	.00035	-.00003	.01802	.00547
#2	.00062	.00086	.00003	H.00108	-.00004	.01215	.01047

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.02497	.01807	.00062	.00003	-.00560	.00127	-.00173
SDev	.00315	.00384	.00054	.00012	.00657	.00172	.00157
%RSD	12.606	21.240	86.677	366.97	117.31	135.91	90.723
#1	.02274	.01536	.00024	.00012	-.00095	.00248	-.00062
#2	.02719	.02079	.00100	-.00005	-.01024	.00005	-.00284

Elem	1960-2
Avge	-.00062
SDev	.00031
%RSD	49.555

#1	-.00040

#2	-.06[illegible]						

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9322	--	--	--	--	--	--
SDev	2.828427	--	--	--	--	--	--
%RSD	.0303417	--	--	--	--	--	--
#1	9324	--	--	--	--	--	--
#2	9320	--	--	--	--	--	--

Method: IEC_2001 Sample Name: Q1284007 TLCS Operator: DAD
Run Time: 10/01/01 15:27:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.50136	.50080	.51222	.49258	.52804	.49838	.50527
SDev	.00693	.00302	.00421	.00380	.00028	.00190	.00577
%RSD	1.3816	.60370	.82139	.77062	.05255	.38075	1.1430
#1	.50626	.50294	.51519	.49527	.52785	.49972	.50936
#2	.49646	.49867	.50924	.48990	.52824	.49704	.50119

Elem	Ag3280	V_3924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.501[illegible]	[illegible]3987	.49833	.50942	.52113	.10001	-.00357
SDev	.00244	.00182	.00242	.00187	.00182	.02325	.01062
%RSD	.48630	[illegible]33789	.48502	.36763	.34850	23.251	297.30
#1	.50286	.54116	.50004	.51074	.52741	.11645	.00394
#2	.49942	.53858	.49662	.50809	.51984	.08357	-.01109

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.05779	.01176	.49226	.49274	.49762	.50239	.50680
SDev	.00351	.00749	.00496	.00321	.00156	.00531	.00297
%RSD	6.0766	63.707	1.0084	.65204	.31366	1.0573	.58666
#1	.06027	.01706	.49577	.49501	.49652	.50615	.50890
#2	.05530	.00646	.48875	.49047	.49873	.49863	.50470

Elem	1960-2
Avge	.51492
SDev	.00482
%RSD	.93674
#1	.51833
#2	.51151

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9284	--	--	--	--	--	--

SDev	46.38593	--	--	--	--	--	--

%RSD	.49[illegible]	--					
#1	9251	--	--	--	--	--	--
#2	9317	--	--	--	--	--	--

Method: IEC_2001 Sample Name: A567128 Operator: DAD
Run Time: 10/01/01 15:31:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00050	.00078	.00388	.00009	.00273	.00061	-.00094
SDev	.00139	.00066	.00019	.00019	.00504	.00018	.00678
%RSD	277.99	84.324	4.9310	209.63	184.46	29.498	721.10
#1	.00148	.00032	.00402	.00023	-.00083	.00048	L-.00574
#2	-.00048	.00125	.00375	-.00004	.00630	.00074	.00386

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.00124	.00147	-.00003	.00050	.00618	.24709	.01997
SDev	.00174	.00120	.00001	.00150	.00014	.03111	.00943
%RSD	140.43	81.460	48.147	300.14	2.2909	12.589	47.236
#1	.00001	.00062	-.00003	-.00056	.00608	.22510	.01330
#2	.00247	.00232	-.00002	.00156	.00628	.26909	.02663

Elem	Ca3179	Mg8790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	22.7[illegible]	[illegible]1867	-.00046	.00037	.00114	.00061	.01120
SDev	.003[illegible]	[illegible]0110	.00145	.00043	.01424	.00612	.00661
%RSD	.01111	[illegible]15347	315.44	116.37	1246.1	1008.9	59.028
#1	22.767	7.1789	.00056	.00007	-.00892	.00493	.00653
#2	22.770	7.1945	-.00148	.00067	.01121	-.00372	.01588

Elem	1960-2
Avge	.00023
SDev	.00359
%RSD	1578.5
#1	.00276
#2	-.00231

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9389	--	--	--	--	--	--
SDev	78.06417	--	--	--	--	--	--
%RSD	.8314783	--	--	--	--	--	--
#1	9333	--	--	--	--	--	--
#2	9444	--	--	--	--	--	--

Method: IEC_2001 Sample Name: A567128 1:5 Operator: DAD
Run Time: 10/01/01 15:35:56

S.D.

Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00062	-.00015	-.00181	.00031	.00297	-.00180	.00069
SDev	.00010	.00011	.00231	.00010	.00352	.00042	.00433
%RSD	16.606	71.581	127.63	33.032	118.52	23.206	630.01
#1	.00055	-.00008	-.00344	.00024	.00545	-.00151	.00375
#2	.00069	-.00023	-.00018	.00039	.00048	L-.00210	-.00238

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	-.00200	L-.00194	-.00003	.00075	.00126	.06317	-.02281
SDev	.00119	.00085	.00005	.00076	.00022	.02205	.00778
%RSD	59.768	43.949	177.46	100.85	17.235	34.900	34.113
#1	-.00115	L-.00134	.00001	.00129	.00142	.07876	-.01731
#2	L-.00284	L-.00254	-.00006	.00022	.00111	.04758	-.02831

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	4.2676	1.3432	.00060	.00017	-.00249	.00101	-.00223
SDev	.0075	.0101	.00040	.00004	.00107	.00070	.00419
%RSD	.17610	.75506	66.343	26.051	42.956	69.160	187.92
#1	4.2729	1.3504	.00032	.00020	-.00325	.00151	-.00519
#2	4.2623	1.3361	.00088	.00014	-.00174	.00052	.00073

Elem	1960-2
Avge	-.00160
SDev	.00137
%RSD	85.667
#1	-.00257
#2	-.00063

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9478	--	--	--	--	--	--
SDev	26.87006	--	--	--	--	--	--
%RSD	.2834843	--	--	--	--	--	--
#1	9460	--	--	--	--	--	--
#2	9498	--	--	--	--	--	--

Method: IEC_2001 Sample Name: Q1284008 TSPI02 Operator: DAD
Run Time: 10/01/01 15:40:11
Comment:
Mode: CONC Corr. Factor: 1

A567128

Elem	Ag1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	1.9253	.48326	1.9953	.04816	2.9679	.18776	.50493
SDev	.0494	.00996	.0377	.00083	.0797	.00570	.00830
%RSD	2.5661	2.0601	1.8913	1.7157	2.6863	3.0367	1.6441

#1	1.89[illegible]	.47622	1.9586	.04757	2.9115	.18373	[illegible]
#2	1.94[illegible]	.49029	2.0220	.04874	3.0243	.19179	[illegible]80

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.04952	.50669	.04664	.47976	.46335	1.2970	2.1158
SDev	.00211	.01603	.00143	01199	01414	.0077	.0801
%RSD	4.2613	3.1630	3.0751	2.5001	3.0526	.59023	3.7838
#1	.04803	.49535	.04563	.47128	.45335	1.3024	2.0592
#2	.05102	.51802	.04766	.48824	.47335	1.2916	2.1724

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	119.31	96.397	.04830	.04808	.49276	.47851	1.9819
SDev	3.58	2.786	.00021	.00135	.01539	.00724	.0486
%RSD	3.0019	2.8905	.43980	2.7967	3.1234	1.5134	2.4547
#1	116.78	94.426	.04845	.04713	.48188	.47339	1.9475
#2	121.84	98.367	.04815	.04903	.50365	.48363	2.0163

Elem	1960-2
Avge	2.0020
SDev	.0323
%RSD	1.6129
#1	1.9792
#2	2.0249

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9431	--	--	--	--	--	--
SDev	259.8618	--	--	--	--	--	--
%RSD	2.755268	--	--	--	--	--	--
#1	9615	--	--	--	--	--	--
#2	9248	--	--	--	--	--	--

Method: IEC_2001 Sample Name: Q1284009 TDS02 Operator: DAD
Run Time: 10/01/01 15:44:26
Comment:
Mode: CONC Corr. Factor: 1

A567128

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	1.9416	.48681	2.0089	.04854	2.9918	.19118	50559
SDev	.0197	.00516	.0176	.00032	0336	00228	.00727
%RSD	1.0159	1.0606	.87708	.65800	1.1247	1.1908	1.4377
#1	1.9555	.49046	2.0214	.04876	3.0156	.19279	.51073
#2	1.9276	.48316	1.9964	.04831	2.9680	.18957	.50045

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.05146	.51185	.04688	.48357	.46648	1.2028	2.1032
SDev	.00128	.00750	.00081	.00701	.00617	.0314	.0449
%RSD	2.4853	1.4661	1.7172	1.4506	1.3219	2.4095	2.1355

#1	.05236	.51715	.04745	[illegible]	.47014	1.3250	2.1349

#2	.050[illegible]	.50655	[illegible]	.47[illegible]	.46212	1.2806	[illegible]14

Elem	Ca317[illegible]	Mg2790	2265-1	2265-2	2203-1	2203-2	1[illegible]-1
Avge	119.96	96.957	.04903	.04829	.49037	.48504	1.9978
SDev	1.45	1.260	.00027	.00061	.00588	.00480	.0207
%RSD	1.2075	1.2999	.54249	1.2665	1.2000	.99016	1.0369
#1	120.98	97.848	.04884	.04872	.49453	.48843	2.0124
#2	118.93	96.066	.04922	.04786	.48621	.48164	1.9831

Elem	1960-2
Avge	2.0145
SDev	.0161
%RSD	.79795
#1	2.0258
#2	2.0031

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9416	--	--	--	--	--	--
SDev	103.1672	--	--	--	--	--	--
%RSD	1.095664	--	--	--	--	--	--
#1	9343	--	--	--	--	--	--
#2	9489	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TCCV Operator: DAD
Run Time: 10/01/01 15:48:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.09508	.10207	.09676	.09856	.11028	.09430	.10124
SDev	.00178	.00034	.00025	.00081	.00371	.00037	.00265
%RSD	1.8688	.33784	.25821	.82005	3.3687	.38995	2.6198
#1	.09382	.10231	.09694	.09913	H.11291	.09404	.10311
#2	.09634	.10183	.09658	.09799	.10765	.09456	.09936

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.10034	.10161	.09903	.09911	.09807	.03277	-.02398
SDev	.00021	.00006	.00021	.00050	.00000	.00746	.00330
%RSD	.21383	.06245	.21721	.50315	.00178	[illegible].767	13.742
#1	.10049	.10166	.09919	.09947	.09807	.03804	-.02165
#2	.10019	.10157	.09888	.09876	.09807	.02749	-.02631

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.06956	.02100	.09816	.09876	.11075	.09773	.09647
SDev	.00746	.00688	.00090	.00076	.00156	.00026	.00053
%RSD	10.729	32.744	.92069	.77011	1.4128	.27034	.55360
#1	.07484	.02586	.09880	.09930	.11186	.09755	.09609

#2	06478	01414	[illegible]	[illegible]	[illegible]	[illegible]	09684

Elem	196[illegible]
Avge	.096[illegible]
SDev	.00064
%RSD	.66167
#1	.09736
#2	.09645

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9092	--	--	--	--	--	--
SDev	53.66968	--	--	--	--	--	--
%RSD	.5902859	--	--	--	--	--	--
#1	9054	--	--	--	--	--	--
#2	9130	--	--	--	--	--	--

Method: IEC_2001 Sample Name: BLA01 Operator: DAD
Run Time: 10/01/01 15:52:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Sc1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00172	-.00018	-.00060	.00025	H.00914	-.00090	.00408
SDev	.00385	.00026	.00226	.00011	.00058	.00030	.00232
%RSD	208.74	144.59	377.65	42.623	6.3200	33.475	56.896
#1	-.00082	-.00036	-.00219	.00017	H.00955	-.00069	.00244
#2	.00426	.00000	.00100	.00032	H.00874	-.00112	H.00572

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	-.00056	-.00073	-.00001	H.00219	.00006	.03661	-.01728
SDev	.00175	.00121	.00002	.00026	.00026	.02325	.00460
%RSD	311.70	164.50	257.69	11.671	420.94	63.509	26.632
#1	-.00180	L-.00159	-.00003	H.00201	-.00012	.02017	-.02053
#2	.00068	.00012	.00001	H.00237	.00024	.05305	-.01402

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.01034	.01713	.00085	-.00005	-.00428	.00187	-.00117
SDev	.00258	.00705	.00076	.00022	.00455	.00266	.00156
%RSD	24.931	41.144	89.376	417.52	106.19	141.79	133.99
#1	.00852	.01215	.00031	.00010	-.00107	-.00000	-.00227
#2	.01216	.02211	.00139	-.00021	-.00750	.00375	-.00006

Elem	1960-2
Avge	-.00031
SDev	.00260
%RSD	829.76
#1	-.00216
#2	.00153

#1	.006[illegible]	.01582	-.00008	-.00023	-.00141	.00066	[illegible]84
#2	.007[illegible]	.01400	-.00025	.00009	-.00191	-.00162	[illegible]40

Elem	1960-2
Avge	-.00194
SDev	.00060
%RSD	30.961
#1	-.00151
#2	-.00236

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9357	--	--	--	--	--	--
SDev	41.22488	--	--	--	--	--	--
%RSD	.4405803	--	--	--	--	--	--
#1	9386	--	--	--	--	--	--
#2	9328	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TDLS Operator: DAD
Run Time: 10/01/01 16:50:52
Comment:
Mode: CONC Corr Factor: 1

Elem	As1890	[illegible]2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00696	[illegible]00298	.00198	.00108	.01394	-.00010	.00764
SDev	.00102	[illegible]00157	.00167	.00017	.00192	.00051	.00270
%RSD	14.673	52.877	84.201	15.681	13.739	498.71	35.307
#1	.00624	.00186	.00316	.00120	.01529	-.00046	.00954
#2	.00768	.00409	.00080	.00096	.01258	.00026	.00573

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.00091	.00062	.00092	.00218	.00093	.03046	-.01414
SDev	.00019	.00000	.00005	.00144	.00003	.02337	.00882
%RSD	20.795	.42733	5.8846	65.830	3.0603	76.701	62.393
#1	.00078	.00061	.00096	.00319	.00091	.04699	-.00790
#2	.00105	.00062	.00088	.00116	.00095	.01394	-.02038

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.00685	.01022	.00083	.00120	.00404	.00244	-.00097
SDev	.00151	.00913	.00128	.00039	.01053	.00290	.00167
%RSD	21.979	89.381	154.95	32.036	260.34	118.51	171.90
#1	.00792	.01668	.00173	.00093	-.00340	.00449	-.00215
#2	.00579	.00376	-.00008	.00148	.01149	.00040	.00021

Elem	1960-2
Avge	.00346
SDev	.00334
%RSD	96.503

#1 .00582

#2	.00110						
IntStd	1	2	3	4	5	6	
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9324	--	--	--	--	--	--
SDev	26.02208	--	--	--	--	--	--
%RSD	.2790961	--	--	--	--	--	--
#1	9342	--	--	--	--	--	--
#2	9305	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TCDL01 Operator: DAD
Run Time: 10/01/01 16:55:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.01856	.00475	.00941	.00965	.02535	.01786	.11604
SDev	.00139	.00130	.00354	.00004	.00104	.00017	.00126
%RSD	7.5052	27.277	37.574	.45805	4.1213	.94983	1.0867
#1	.01954	.00384	.01191	.00962	.02461	.01774	.11693
#2	.01757	.00567	.00691	.00968	.02609	.01798	.11515

Elem	Ag3280	V3924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.01884	.10277	.00931	.09815	.02969	.02711	-.02491
SDev	.00103	.00069	.00003	.00042	.00033	.00770	.00274
%RSD	5.5924	.66947	.30292	.43044	1.1049	28.397	10.983
#1	.01762	.10228	.00933	.09785	.02992	.03255	-.02685
#2	.01907	.10325	.00929	.09845	.02945	.02166	-.02298

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.00270	.00372	.00920	.00987	.00682	.00372	.01460
SDev	.00003	.00382	.00058	.00022	.00717	.00552	.00580
%RSD	1.1239	102.84	6.2792	2.2492	105.00	148.38	39.720
#1	.00272	.00642	.00879	.01003	.01189	-.00018	.01870
#2	.00268	.00101	.00961	.00972	.00176	.00763	.01050

Elem	1960-2
Avge	.00682
SDev	.00241
%RSD	35.282
#1	.00853
#2	.00512

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9373	--	--	--	--	--	--

SDev	16.12190	--	--	--	--	--	--

%RSD	17[illegible]	--	--	--			
#1	9362	--	--	--	--	--	--
#2	9384	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TICS-A Operator: DAD
Run Time: 10/01/01 16:59:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.00325	H.01248	.00169	H.00208	.00440	-.00169	.00773
SDev	.00199	.00064	.00397	.00040	.00217	.00025	.00162
%RSD	61.300	5.0982	235.19	19.479	49.265	14.601	20.964
#1	.00184	H.01203	.00450	.00179	.00593	-.00151	.00887
#2	.00466	H.01293	-.00112	H.00237	.00287	-.00186	.00658

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	L-.00721	.00379	.00022	H.00212	-.00097	194.16	481.29
SDev	.00058	.00081	.00006	.00036	.00007	1.97	4.10
%RSD	7.9852	21.504	26.193	16.926	6.9570	1.0167	.85173
#1	L-.00681	.00437	.00026	H.00237	-.00102	195.55	484.19
#2	L-.00762	.00322	.00018	.00186	-.00092	192.76	478.39

Elem	Ca3179	Mg[illegible]90	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	481.[illegible]	[illegible].75	.00080	.00272	.11202	.03722	.00797
SDev	4.67	[illegible]4.73	.00032	.00077	.00317	.00063	.00791
%RSD	.96861	[illegible]99943	40.394	28.290	2.8306	1.6910	99.224
#1	485.15	477.09	.00103	.00217	.10978	-.03677	.01356
#2	478.55	470.40	.00057	.00326	.11426	-.03767	.00238

Elem	1960-2
Avge	-.00145
SDev	.00201
%RSD	138.54
#1	-.00003
#2	-.00287

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	8541	--	--	--	--	--	--
SDev	36.83999	--	--	--	--	--	--
%RSD	.4313437	--	--	--	--	--	--
#1	8515	--	--	--	--	--	--
#2	8567	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TICS-AB Operator: DAD
Run Time: 10/01/01 17:[illegible]

Comment:
Mode: CONC . Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.09251	.05785	.04718	.92003	.09961	.46469	.59615
SDev	.00329	.00066	.00315	.00161	.00301	.00019	.00397
%RSD	3.5553	1.1340	6.6785	.17514	3.0202	.03994	.66568
#1	.09019	.05831	.04495	.91889	.10173	.46456	.59895
#2	.09484	.05739	.04941	.92117	.09748	.46482	.59334

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.20571	.51954	.47783	.46296	.48328	194.83	481.86
SDev	.00011	.00001	.00006	.00108	.00019	.06	.04
%RSD	.05273	.00188	.01246	.23287	.03850	.02891	.00859
#1	.20563	.51954	47779	.46372	.48341	194.79	481.83
#2	.20579	.51955	.47787	.46219	.48315	194.87	481.89

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	481.90	474.41	.92413	.91798	.16524	.00423	.05672
SDev	.64	.05	.00261	.00372	.00753	.00475	.00829
%RSD	.13324	.01007	.28247	.40514	4.5591	112.08	14.608
#1	481.44	474.45	.92597	.91535	15992	.00759	.05086
#2	482.35	474.38	.92228	.92061	.17057	.00088	.06258

Elem	1960-2
Avge	.04242
SDev	.00059
%RSD	1.3849
#1	.04200
#2	.04283

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	8559	--	--	--	--	--	--
SDev	18.87920	--	--	--	--	--	--
%RSD	.2205656	--	--	--	--	--	--
#1	8546	--	--	--	--	--	--
#2	8573	--	--	--	--	--	--

Method: IEC_2001 Sample Name: TCCV Operator: DAD
Run Time: 10/01/01 17:07:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	.09568	.09868	.09351	.09578	.10045	.09224	.10055
SDev	.00180	.00143	.00263	.00117	.00508	.00198	.00057
%RSD	1.8827	1.4437	2.8131	1.2259	5.0577	2.1422	.57186

#1	096[illegible]	.09969	[illegible]	.09[illegible]	.10404	.09364	09[illegible]
#2	.09[illegible]	.09768	09165	.09495	.09686	.09085	[illegible]14

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.09938	.10004	.09800	.09787	.09600	.06924	.03798
SDev	.00196	.00092	.00187	.00034	.00153	.00268	.02091
%RSD	1.9701	.91456	1.9046	.34185	1.5983	3.8679	55.053
#1	.10077	.10069	.09932	.09811	.09709	.06734	.05276
#2	.09800	.09939	.09668	.09764	.09492	.07113	.02319

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.08267	.06078	.09637	.09549	.09972	.09817	.08534
SDev	.01137	.00786	.00229	.00062	.00030	.00199	.00205
%RSD	13.751	12.936	2.3730	.64803	.29713	2.0252	2.4017
#1	.09071	.06634	.09798	.09593	.09993	.09957	.08678
#2	.07463	.05522	.09475	.09506	.09951	.09676	.08389

Elem	1960-2
Avge	.09760
SDev	.00292
%RSD	2.9927
#1	.09966
#2	.09553

IntStd	1	[illegible]	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	8972	--	--	--	--	--	--
SDev	146.5831	--	--	--	--	--	--
%RSD	1.633848	--	--	--	--	--	--
#1	8868	--	--	--	--	--	--
#2	9075	--	--	--	--	--	--

Method: IEC_2001 Sample Name: BLA01 Operator: DAD
Run Time: 10/01/01 17:12:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Cd2265	Tl1908	Cr2677	Sb2068
Avge	-.00129	-.00006	.00132	.00010	.00257	-.00010	.00135
SDev	.00077	.00008	.00099	.00015	.00084	.00067	.00006
%RSD	59.599	123.91	74.484	151.18	32.575	695.97	4.8289
#1	-.00183	-.00001	.00202	.00020	.00317	-.00057	.00140
#2	-.00075	-.00012	.00063	-.00001	.00198	.00038	.00131

Elem	Ag3280	V_2924	Be3130	Co2286	Mn2576	Fe2714	Al3082
Avge	.00002	-.00036	-.00007	.00049	.00033	.01940	-.01634
SDev	.00045	.00000	.00004	.00053	.00001	.01176	.01565
%RSD	2413.1	.03452	55.659	108.14	4.1001	60.636	95.776

#1 -.00030 .00036 [illegible] .00096 .00042 .01108 .02740

#1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
#2	.00[illegible]	-.00036	-.00004	.00011	.00034	.02772	[illegible]

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	2203-2	1960-1
Avge	.02408	.02547	-.00032	.00030	.00433	-.00226	.00872
SDev	.01156	.00839	.00004	.00020	.00251	.00113	.00175
%RSD	48.014	32.962	12.981	65.143	57.859	50.177	20.058
#1	.01590	.01953	-.00029	.00044	.00611	-.00306	.00995
#2	.03225	.03140	-.00035	.00016	.00256	-.00146	.00748

Elem	1960-2
Avge	-.00237
SDev	.00061
%RSD	25.617
#1	-.00194
#2	-.00279

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	9546	--	--	--	--	--	--
SDev	81.88283	--	--	--	--	--	--
%RSD	.8577261	--	--	--	--	--	--
#1	9604	[illegible]	--	--	--	--	--
#2	9489	[illegible]	--	--	--	--	--

Method: IEC_2001 Sample Name: Q1285528 BLA02 Operator: DAD
Run Time: 10/01/01 17:16:23
Comment:
Mode: CONC Cor[illegible]ctor: 1

Elem	As1890	Pb220[illegible]	Se1960	Cd2265	Tl1908	Cr[illegible]77	Sb2068
Avge	.00323	-.00204	-.00187	.00027	H.00613	.00072	.00277
SDev	.00304	.00004	.00108	.00013	.00104	.00056	.00397
%RSD	94.256	2.1403	57.[illegible]15	47.375	17.[illegible]19	76.916	143.04
#1	.00108	-.00201	-.00111	.00018	H.00686	-.00112	-.00003
#2	H.00537	-.00207	-.00263	.00036	H.00539	-.00033	H.00558

Elem	Ag3280	V_2924	Be3130	Co22[illegible]6	Mn2576	Fe2714	Al3082
Avge	.00015	-.00048	-.00004	H.00265	.00008	.02703	-.00865
SDev	.00069	.00085	.00000	.00051	.00027	.00034	.00119
%RSD	475.97	175.27	13.017	19.375	30.08	1.2703	13.731
#1	-.00034	L-.00108	-.00004	H.00302	.0002[illegible]	.02679	-.00781
#2	.00063	.00012	-.00003	H.00229	-.00010	.02727	-.00949

Elem	Ca3179	Mg2790	2265-1	2265-2	2203-1	22[illegible]3-2	1960-1
Avge	.0316[illegible]	.02384	-.00014	.00048	-.00475	-.00[illegible]8	-.00021
SDev	.00[illegible]14	.00191	.00021	.00030	.00601	.00306	.00111
%RSD	[illegible].086	8.0069	147.47	61.977	126.39	447.78	520.33
#1	.03459	.02519	.00001	.00027	-.00900	.00148	.00057

==========

Method Name: MERCURY
Method Description: Mercury
Element: Hg

Hg FIMS 9/25/01

r= 0.9999

JSO 1703

m= 12.8

Date: 09/25/2001
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: HG9-25.SIF

A567128

y=0.0002

Results Data Set Name: HG9-25

==========

Element: Hg Seq. No.: 2 AS Loc.: 1 Date: 09/25/2001
Sample ID: BLA01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			-0.0001	-0.0141	-0.0001	16:20:11	No

Auto-zero performed.

==========

Element: Hg Seq. No.: 3 AS Loc.: 2 Date: 09/25/2001
Sample ID: 1

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00018	0.0025	0.0003	0.0024	16:21:30	No

[Hg] Standard number 1 applied. [0.00020]
Correlation Coefficient: 1.00000 Slope: 12.40400
Intercept : 0.00000

90%

==========

Element: Hg Seq. No.: 4 AS Loc.: 3 Date: 09/25/2001
Sample ID: 2

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00050	0.0066	0.0215	0.0065	16:22:47	No

[Hg] Standard number 2 applied. [0.00050]
Correlation Coefficient: 0.99966 Slope: 13.19438
Intercept : -0.00006

100%

==========

Element: Hg Seq. No.: 5 AS Loc.: 4 Date: 09/25/2001
Sample ID: 3

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00101	0.0131	0.0498	0.0130	16:24:06	No

[Hg] Standard number 3 applied. [0.00100]
Correlation Coefficient: 0.99992 Slope: 13.14972
Intercept : -0.00005

101%

==========

Element: Hg Seq. No.: 6 AS Loc.: 5 Date: 09/25/2001
Sample ID: 4

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00203	0.0262	0.1044	0.0261	16:25:26	No

[Hg] Standard number 4 applied. [0.00200]
Correlation Coefficient: 0.99998 Slope: 13.10707
Intercept : -0.00004

101.5%

93

Element: Hg Seq. No.: 7 AS Loc.: 6 Date: 09/25/2001
Sample ID: 5

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00304	0.0391	0.1583	0.0390	16:26:46	No

101.3%

[Hg] Standard number 5 applied. [0.00300]
Correlation Coefficient: 0.99999 Slope: 13.05078
Intercept : -0.00001

Element: Hg Seq. No.: 8 AS Loc.: 7 Date: 09/25/2001
Sample ID: 6

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00496	0.0637	0.2598	0.0636	16:28:08	No

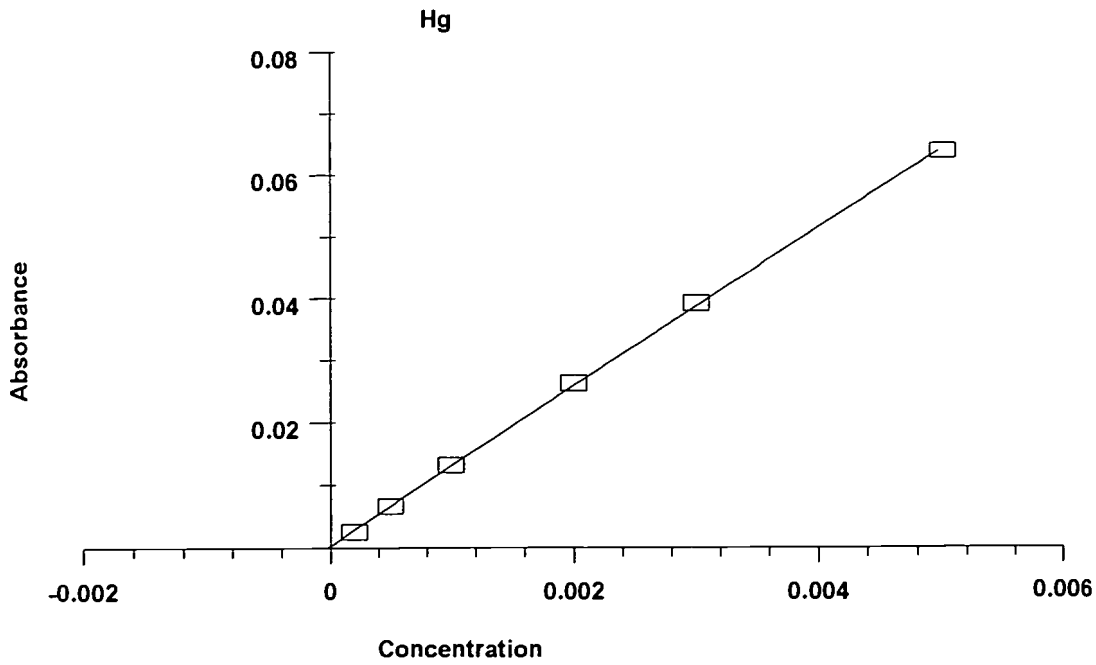
99.2%

[Hg] Standard number 6 applied. [0.00500]
Correlation Coefficient: 0.99988 Slope: 12.78786
Intercept : 0.00021

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (mg/L)	Calculated Concentration (mg/L)	Standard Deviation	%RSD
BLA01	-0.0001	-----	----	----	----
1	0.0025	0.00020	0.00018	----	----
2	0.0066	0.00050	0.00050	----	----
3	0.0131	0.00100	0.00101	----	----
4	0.0262	0.00200	0.00203	----	----
5	0.0391	0.00300	0.00304	----	----
6	0.0637	0.00500	0.00496	----	----

Correlation Coefficient: 0.99988 Slope: 12.78786 Intercept: 0.0002



94

Element: Hg Seq. No.: 9 AS Loc.: 9 Date: 09/25/2001
Sample ID: ICV01 TV=0.0020

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00192	0.00192	0.0248	0.0996	0.0247	16:30:03	No

96%

Element: Hg Seq. No.: 10 AS Loc.: 1 Date: 09/25/2001
Sample ID: BLA01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0004	-0.0013	0.0003	16:31:19	No

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 09/25/2001
Sample ID: CCV TV=0.0030

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00305	0.00305	0.0392	0.1592	0.0391	16:32:39	No

101.7%

Element: Hg Seq. No.: 12 AS Loc.: 1 Date: 09/25/2001
Sample ID: BLA01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0003	-0.0014	0.0003	16:33:57	No

Element: Hg Seq. No.: 13 AS Loc.: 2 Date: 09/25/2001
Sample ID: CDL TV=0.00020

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00021	0.00021	0.0029	0.0089	0.0028	16:35:13	No

105%

95

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0003	-0.0008	0.0003	16:48:04	No

Element: Hg Seq. No.: 23 AS Loc.: 17 Date: 09/25/2001
Sample ID: A567156 40/40

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0004	-0.0002	0.0003	16:49:23	No

Element: Hg Seq. No.: 24 AS Loc.: 8 Date: 09/25/2001
Sample ID: CCV IV=0.0030

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00311	0.00311	0.0400	0.1661	0.0399	16:50:43	No

103.7%

QC value within specified limits.

Element: Hg Seq. No.: 25 AS Loc.: 1 Date: 09/25/2001
Sample ID: BLA01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0004	0.0012	0.0003	16:52:03	No

QC value within specified limits.

96

Element: Hg Seq. No.: 26 AS Loc.: 18 Date: 09/25/2001
Sample ID: LCS Q1283621 TV=0.0020

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00210	0.00210	0.0271	0.1101	0.0270	16:53:42	No

105%

Element: Hg Seq. No.: 27 AS Loc.: 19 Date: 09/25/2001
Sample ID: BLA02 Q1283622

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0007	0.0018	0.0006	16:54:59	No

Element: Hg Seq. No.: 28 AS Loc.: 20 Date: 09/25/2001
Sample ID: A567128 40/40

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0005	0.0019	0.0005	16:56:15	No

Element: Hg Seq. No.: 29 AS Loc.: 21 Date: 09/25/2001
Sample ID: SPI02 Q1283623 A567128 TV=0.0010

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00106	0.00106	0.0138	0.0573	0.0137	16:57:31	No

106%

Element: Hg Seq. No.: 30 AS Loc.: 22 Date: 09/25/2001
Sample ID: DPS02 Q1283624 A567128 TV=0.0010

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00105	0.00105	0.0137	0.0565	0.0136	16:58:49	No

105%

r=0.9

Element: Hg Seq. No.: 31 AS Loc.: 8 Date: 09/25/2001
Sample ID: CCV TV=0.0030

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00314	0.00314	0.0404	0.1673	0.0403	17:00:11	No

104.7%

Element: Hg Seq. No.: 32 AS Loc.: 1 Date: 09/25/2001
Sample ID: BLA01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0004	0.0015	0.0003	17:01:31	No

Element: Hg Seq. No.: 33 AS Loc.: 23 Date: 09/25/2001
Sample ID: A567138 40/40

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0005	0.0023	0.0005	17:02:48	No

97

Element: Hg Seq. No.: 34 AS Loc.: 24 Date: 09/25/2001
Sample ID: A567139 40/40

HERITAGE ENVIRONMENTAL SERVICES, LLC

7901 West Morris Street
Indianapolis, IN 46231
Phone: 317/243-0811
Fax: 317/486-5095
Internet:http://www.heritage-enviro.com

CASE NARRATIVE

IDEM – Office of Water Management
Organics Section Packet #1709

2 October 2001

SAMPLE A567128

This sample was analyzed for sulfate by Ion Chromatography (EPA 300.0) using normal procedures with no modifications. The required holding time was met for the analysis. The method blanks were below the reporting limit. The Initial Calibration Verification and Continuing Calibration Verification were within the control limits. In addition, the matrix spike and matrix spike duplicate were within the control limits.

Heritage Environmental Services
Limited Liability Company

Jay M. Montgomery
IC Analyst

Recycled Paper

Run Number R420278

File Number 01-0926

ION CHROMATOGRAPHY

Instrument # 268

Analyst JMM 1663

Start Date 26-Sep-01
Start Time 18:14

End Date 27-Sep-01
End Time 11:05

Reviewed By LW/1023
Date 9/28/01

Recorded By RLB
Date 9-28-01

Candy
9-28-01

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
1\375	BLA01 26-Sep-01 18:14													
	367	F	0	1	0.013		BDL	0.10	mg/L					
	223	Cl	0	1	0.018		BDL	0.25	mg/L					
	507	NO_2	0	1	0.007		BDL	0.050	mg/L					
	192	Br	0	1	0.002		BDL	0.050	mg/L					
	508	NO_3	2875	1	0.004		BDL	0.050	mg/L					
	539	HPO_4	19831	1	0.112	0.11		0.050	mg/L					
	681	SO_4	2065	1	0.013		BDL	0.25	mg/L					
	CCV L 26-Sep-01 18:56													
	367	F	210683	1	0.490	0.490		0.10	mg/L		0.5	98.0		
	223	Cl	360217	1	1.214	1.21		0.25	mg/L		1.25	96.8		
	507	NO_2	296639	1	0.485	0.485		0.050	mg/L		0.5	97.0		
	192	Br	62545	1	0.524	0.524		0.050	mg/L		0.5	104.8		
	508	NO_3	363891	1	0.496	0.496		0.050	mg/L		0.5	99.2		
	539	HPO_4	100191	1	0.522	0.522		0.050	mg/L		0.5	104.4		
	681	SO_4	487152	1	2.452	2.45		0.25	mg/L		2.5	98.0		
	CCV H 26-Sep-01 19:19													
	367	F	2416102	1	4.964	4.96		0.10	mg/L		5	99.2		
	223	Cl	4450512	1	12.207	12.2		0.25	mg/L		12.5	97.6		
	507	NO_2	3518865	1	5.098	5.10		0.050	mg/L		5	102.0		
	192	Br	645497	1	5.031	5.03		0.050	mg/L		5	100.6		
	508	NO_3	4307390	1	4.813	4.81		0.050	mg/L		5	96.2		
	539	HPO_4	1201910	1	4.881	4.88		0.050	mg/L		5	97.6		
	681	SO_4	5689088	1	23.685	23.7		0.25	mg/L		25	94.8		
1\375	LFB01 SPI 26-Sep-01 19:37													
G	367	F	426748	1	0.978	0.978		0.10	mg/L		1	97.8		
	223	Cl	731471	1	2.446	2.45		0.25	mg/L		2.5	98.0		
	507	NO_2	644327	1	0.990	0.990		0.050	mg/L		1	99.0		
	192	Br	118410	1	0.979			0.050	mg/L		1			
G	508	NO_3	732418	1	0.998	0.998		0.050	mg/L		1	99.8		
	539	HPO_4	235239	1	1.161			0.050	mg/L		1			
G	681	SO_4	1007140	1	5.181	5.18		0.25	mg/L		5	103.6		
	A567450 26-Sep-01 19:59													
	367	F	252250	1	0.584			0.10	mg/L					
	223	Cl	68605472	1	180.525	HIGH		0.25	mg/L					
G300.3	507	NO_2	438423	1	0.714	0.71		0.050	mg/L					
	192	Br	15804	1	0.134			0.050	mg/L					
G300.5	508	NO_3	3739164	1	4.209	4.2		0.050	mg/L					
	539	HPO_4	0	1	0.011			0.050	mg/L					
	681	SO_4	58242592	1	231.391	HIGH		0.25	mg/L					
375	SPI01 A567450 26-Sep-01 20:17													
	367	F	668723	1	1.439			0.10	mg/L		1			
	223	Cl	62943459	1	165.670	HIGH		0.25	mg/L		2.5			
G	507	NO_2	1024201	1	1.533	1.53		0.050	mg/L	0.643	1	88.7		
	192	Br	138372	1	1.132			0.050	mg/L		1			
G	508	NO_3	4272616	1	4.776	4.78		0.050	mg/L	3.79	1	99.0		
	539	HPO_4	69831	1	0.367			0.050	mg/L		1			
	681	SO_4	53083966	1	211.003	HIGH		0.25	mg/L		5			
375	DPS01 A567450 26-Sep-01 20:35													
	367	F	690185	1	1.482			0.10	mg/L		1			
	223	Cl	63430601	1	166.948	HIGH		0.25	mg/L		2.5			
	507	NO_2	1050421	1	1.571	1.57		0.050	mg/L	0.643	1	92.7	4.4	
	192	Br	134227	1	1.100			0.050	mg/L		1			
G	508	NO_3	4265425	1	4.768	4.77		0.050	mg/L	3.79	1	98.0	1	
	539	HPO_4	92345	1	0.482			0.050	mg/L		1			
	681	SO_4	52906942	1	210.303	HIGH		0.25	mg/L		5			

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
	A567451 26-Sep-01 20:54													
	367	F	52457	1	0.132			0.10	mg/L					
	223	Cl	49296394	1	129.865	HIGH		0.25	mg/L					
300.3	507	NO_2	428252	1	0.698	0.70		0.050	mg/L					
	192	Br	7498	1	0.065			0.050	mg/L					
G300.5	508	NO_3	897083	1	1.189	1.2		0.050	mg/L					
	539	HPO_4	0	1	0.011			0.050	mg/L					
	681	SO_4	24124723	1	96.548	HIGH		0.25	mg/L					
	A567562 26-Sep-01 21:12													
	367	F	91501	1	0.220			0.10	mg/L					
G310.2	223	Cl	2522473	1	7.148	7.1		0.25	mg/L					
	507	NO_2	0	1	0.007			0.050	mg/L					
	192	Br	0	1	0.002			0.050	mg/L					
G310.5	508	NO_3	0	1	0.000		BDL	0.050	mg/L					
	539	HPO_4	21802	1	0.122			0.050	mg/L					
G310.7	681	SO_4	9358419	1	38.188	38.		0.25	mg/L					
	A567565 1:10 26-Sep-01 21:30													
	367	F	40272	10	1.045			1.0	mg/L					
	223	Cl	145695741	10	3827.795	HIGH		2.5	mg/L					
	507	NO_2	0	10	0.070			0.50	mg/L					
	192	Br	264348	10	21.007			0.50	mg/L					
G310.5	508	NO_3	35557	10	0.482		BDL	0.50	mg/L	TC 413				
	539	HPO_4	662395	10	28.049			0.50	mg/L					
G310.7	681	SO_4	261552	10	13.181	13.		2.5	mg/L					
	A567128 26-Sep-01 21:48													
	367	F	573420	1	1.247			0.10	mg/L					
	223	Cl	76946421	1	202.408	HIGH		0.25	mg/L					
	507	NO_2	0	1	0.007			0.050	mg/L					
	192	Br	144968	1	1.183			0.050	mg/L					
	508	NO_3	662138	1	0.902			0.050	mg/L					
	539	HPO_4	25289	1	0.140			0.050	mg/L					
G300.7	681	SO_4	2709943	1	11.911	12.		0.25	mg/L					
375	SPI01 A567128 26-Sep-01 22:06													
	367	F	978179	1	2.063			0.10	mg/L		1			
	223	Cl	70148504	1	184.573	HIGH		0.25	mg/L		2.5			
	507	NO_2	581532	1	0.945			0.050	mg/L		1			
	192	Br	262237	1	2.085			0.050	mg/L		1			
	508	NO_3	1401305	1	1.725			0.050	mg/L		1			
	539	HPO_4	172861	1	0.893			0.050	mg/L		1			
G	681	SO_4	3610798	1	15.471	15.5		0.25	mg/L	10.7	5	96.0		
375	DPS01 A567128 26-Sep-01 22:24													
	367	F	970066	1	2.047			0.10	mg/L		1			
	223	Cl	70155062	1	184.590	HIGH		0.25	mg/L		2.5			
	507	NO_2	589054	1	0.957			0.050	mg/L		1			
	192	Br	262919	1	2.090			0.050	mg/L		1			
	508	NO_3	1406124	1	1.730			0.050	mg/L		1			
	539	HPO_4	198333	1	1.019			0.050	mg/L		1			
G	681	SO_4	3615409	1	15.490	15.5		0.25	mg/L	10.7	5	96.0	0	
	CCV L 26-Sep-01 22:42													
	367	F	213109	1	0.495	0.495		0.10	mg/L		0.5	99.0		
	223	Cl	371146	1	1.250	1.25		0.25	mg/L		1.25	100.0		
	507	NO_2	310669	1	0.508	0.508		0.050	mg/L		0.5	101.6		
	192	Br	63303	1	0.531	0.531		0.050	mg/L		0.5	106.2		
	508	NO_3	363843	1	0.496	0.496		0.050	mg/L		0.5	99.2		
	539	HPO_4	136354	1	0.707	0.707		0.050	mg/L		0.5	141.4		*
	681	SO_4	489546	1	2.464	2.46		0.25	mg/L		2.5	98.4		

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
	CCV H 26-Sep-01 23:00													
	367	F	2372943	1	4.877	4.88		0.10	mg/L		5	97.6		
	223	Cl	4349423	1	11.942	11.9		0.25	mg/L		12.5	95.2		
	507	NO_2	3435160	1	4.978	4.98		0.050	mg/L		5	99.6		
	192	Br	632603	1	4.932	4.93		0.050	mg/L		5	98.6		
	508	NO_3	4287724	1	4.792	4.79		0.050	mg/L		5	95.8		
	539	HPO_4	1184986	1	4.816	4.82		0.050	mg/L		5	96.4		
	681	SO_4	5658914	1	23.566	23.6		0.25	mg/L		25	94.4		
1\375	BLA01 26-Sep-01 23:19													
	367	F	2366	1	0.019		BDL	0.10	mg/L					
	223	Cl	4915	1	0.034		BDL	0.25	mg/L					
	507	NO_2	0	1	0.007		BDL	0.050	mg/L					
	192	Br	0	1	0.002		BDL	0.050	mg/L					
	508	NO_3	0	1	0.000		BDL	0.050	mg/L					
	539	HPO_4	28280	1	0.155	0.16		0.050	mg/L					
	681	SO_4	0	1	0.003		BDL	0.25	mg/L					
	A567002 26-Sep-01 23:37													
G300.1	367	F	95161	1	0.229	0.23		0.10	mg/L					
G300.2	223	Cl	5521630	1	15.017	15.		0.25	mg/L					
	507	NO_2	8058	1	0.020			0.050	mg/L					
	192	Br	1509	1	0.015			0.050	mg/L					
	508	NO_3	345113	1	0.470			0.050	mg/L					
	539	HPO_4	2140	1	0.022			0.050	mg/L					
	681	SO_4	20387239	1	81.776	HIGH		0.25	mg/L					
	A567003 26-Sep-01 23:55													
G300.1	367	F	122575	1	0.291	0.29		0.10	mg/L					
G300.2	223	Cl	4366029	1	11.985	12.		0.25	mg/L					
	507	NO_2	7925	1	0.020			0.050	mg/L					
	192	Br	0	1	0.002			0.050	mg/L					
	508	NO_3	183612	1	0.250			0.050	mg/L					
	539	HPO_4	4544	1	0.034			0.050	mg/L					
	681	SO_4	25343582	1	101.365	HIGH		0.25	mg/L					
375	SPI01 A567003 27-Sep-01 00:13													
G	367	F	534060	1	1.167	1.17		0.10	mg/L	0.262	1	90.8		
G	223	Cl	4882050	1	13.339	13.3		0.25	mg/L	10.8	2.5	100.0		
	507	NO_2	594421	1	0.966			0.050	mg/L		1			
	192	Br	117095	1	0.980			0.050	mg/L		1			
	508	NO_3	899839	1	1.192			0.050	mg/L		1			
	539	HPO_4	120093	1	0.624			0.050	mg/L		1			
	681	SO_4	24111862	1	96.497	HIGH		0.25	mg/L		5			
375	DPS01 A567003 27-Sep-01 00:31													
G	367	F	549235	1	1.198	1.20		0.10	mg/L	0.262	1	93.8	3.3	
G	223	Cl	4909721	1	13.412	13.4		0.25	mg/L	10.8	2.5	104.0	3.9	
	507	NO_2	627288	1	0.966			0.050	mg/L		1			
	192	Br	124201	1	1.023			0.050	mg/L		1			
	508	NO_3	913275	1	1.206			0.050	mg/L		1			
	539	HPO_4	150959	1	0.782			0.050	mg/L		1			
	681	SO_4	24106164	1	96.475	HIGH		0.25	mg/L		5			
	A567004 27-Sep-01 00:49													
G300.1	367	F	143355	1	0.337	0.34		0.10	mg/L					
G300.2	223	Cl	5611655	1	15.253	15.		0.25	mg/L					
	507	NO_2	34907	1	0.063			0.050	mg/L					
	192	Br	22799	1	0.193			0.050	mg/L					
	508	NO_3	3698303	1	4.166			0.050	mg/L					
	539	HPO_4	8280	1	0.053			0.050	mg/L					
	681	SO_4	40009971	1	159.331	HIGH		0.25	mg/L					

Sample Analysis Report

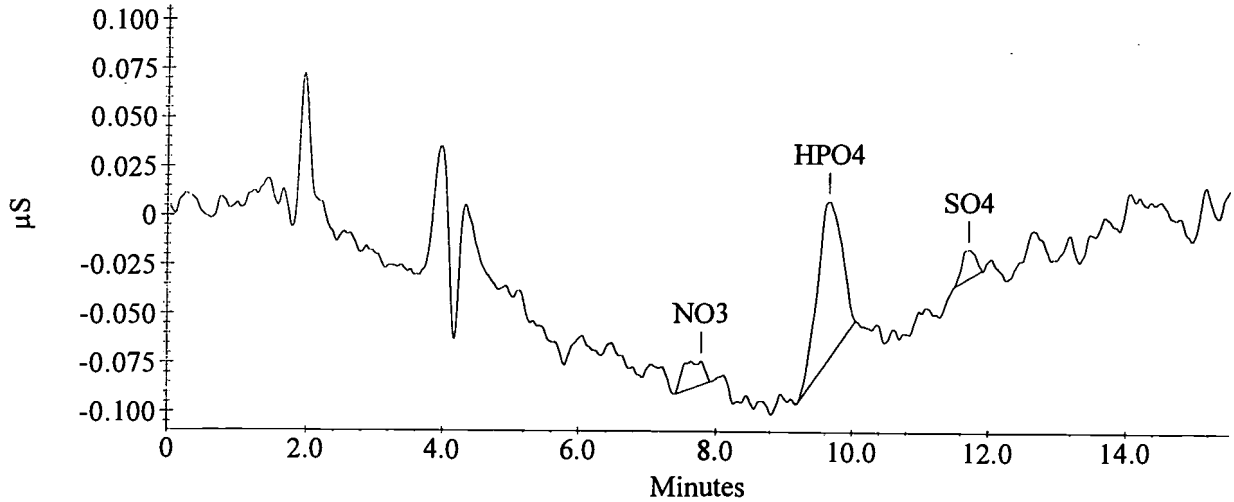
Sample Name : BLA01
Data File Name : C:\PeakNet51\data\09260101\DATA_011.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 6:14:39 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	NO3	7.79	0.14	2875	120
2	HPO4	9.66	0.25	19831	800
3	SO4	11.72	0.73	2065	146

BLA01



Sample Analysis Report

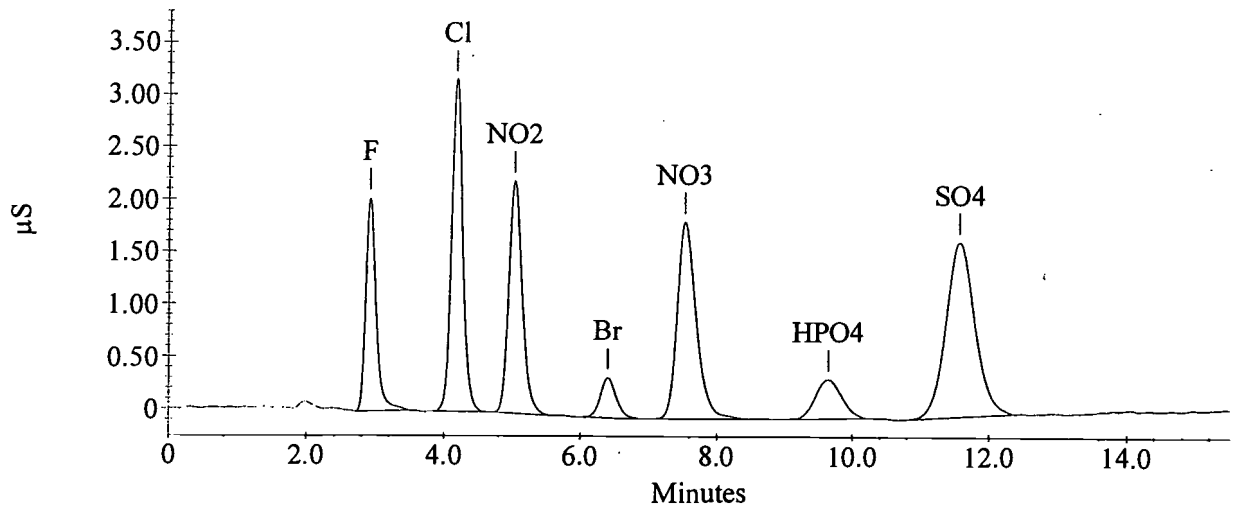
Sample Name : CCV L
Data File Name : C:\PeakNet51\data\09260101\DATA_012.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 6:56:32 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.92	0.42	210683	20188
2	Cl	4.17	1.28	360216	31507
3	NO2	5.03	0.47	296639	22060
4	Br	6.40	0.51	62545	3796
5	NO3	7.53	0.53	363891	18687
6	HPO4	9.64	0.56	100191	3710
7	SO4	11.57	2.67	487152	16553

CCV L



Sample Analysis Report

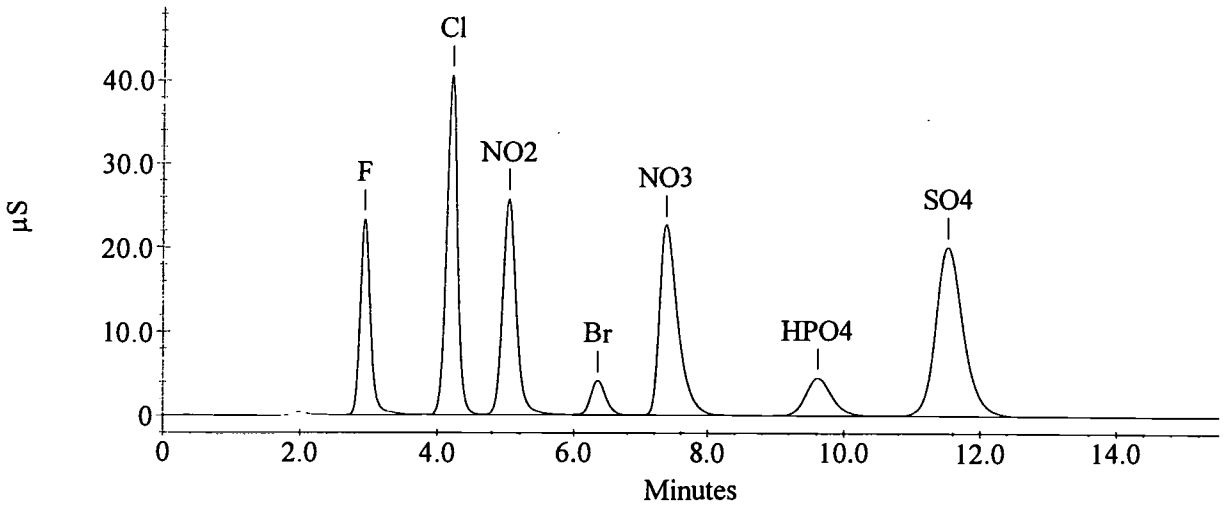
Sample Name : CCV H
Data File Name : C:\PeakNet51\data\09260101\DATA_013.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 7:19:03 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.94	4.91	2416102	232434
2	Cl	4.21	12.12	4450512	404399
3	NO2	5.04	5.08	3518865	256439
4	Br	6.35	5.00	645497	41182
5	NO3	7.37	4.77	4307390	226034
6	HPO4	9.61	4.79	1201910	45086
7	SO4	11.52	23.37	5689088	201260

CCV H



Sample Analysis Report

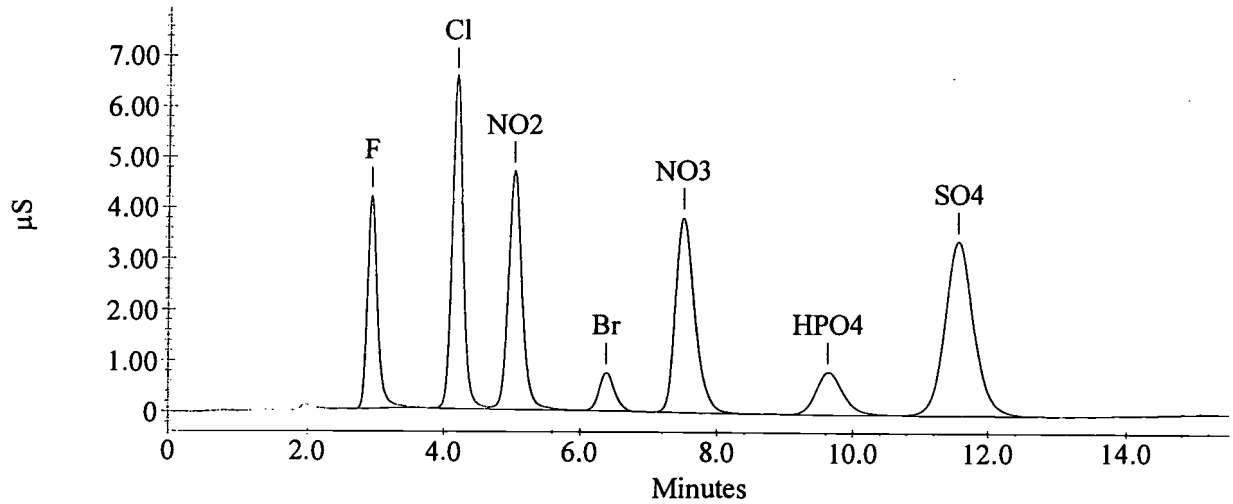
Sample Name : LFB01 SPI
Data File Name : C:\PeakNet51\data\09260101\DATA_014.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 7:37:11 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.93	0.86	426748	41493
2	Cl	4.18	2.26	731471	65113
3	NO2	5.03	0.97	644327	46675
4	Br	6.38	0.94	118410	7494
5	NO3	7.50	0.93	732418	38055
6	HPO4	9.63	1.08	235239	8357
7	SO4	11.56	4.74	1007140	34048

LFB01 SPI



Sample Analysis Report

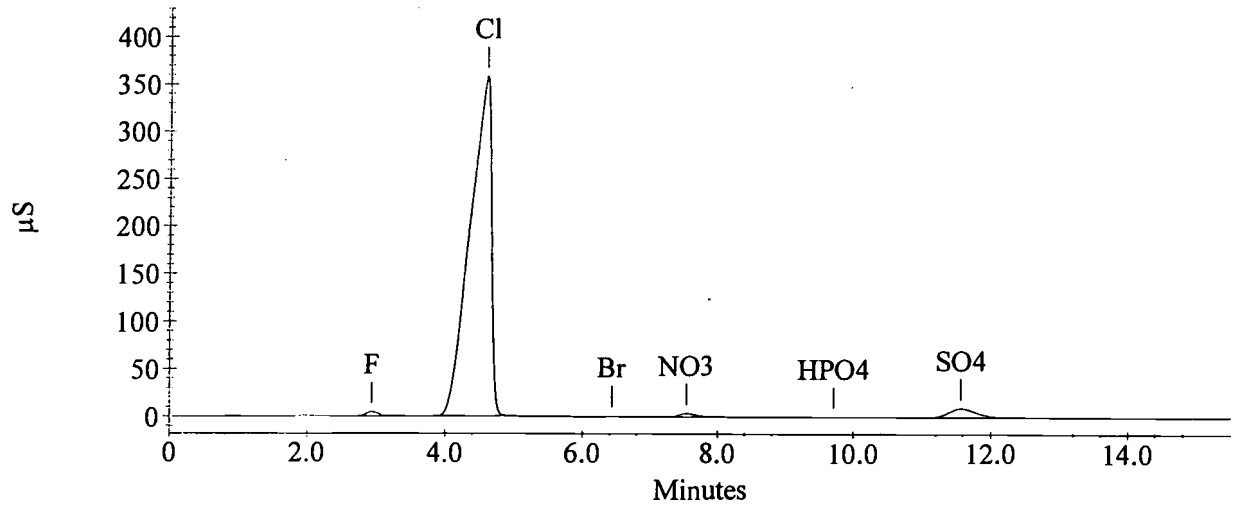
Sample Name : A567128
Data File Name : C:\PeakNet51\data\09260101\DATA_021.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 9:48:29 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.94	1.16	573420	45630
2	Cl	4.60	204.17	76946421	3574382
3	Br	6.43	1.15	144968	9776
4	NO3	7.54	0.85	662138	35691
5	HPO4	9.71	0.27	25289	968
6	SO4	11.57	11.51	2709943	96111

A567128



Sample Analysis Report

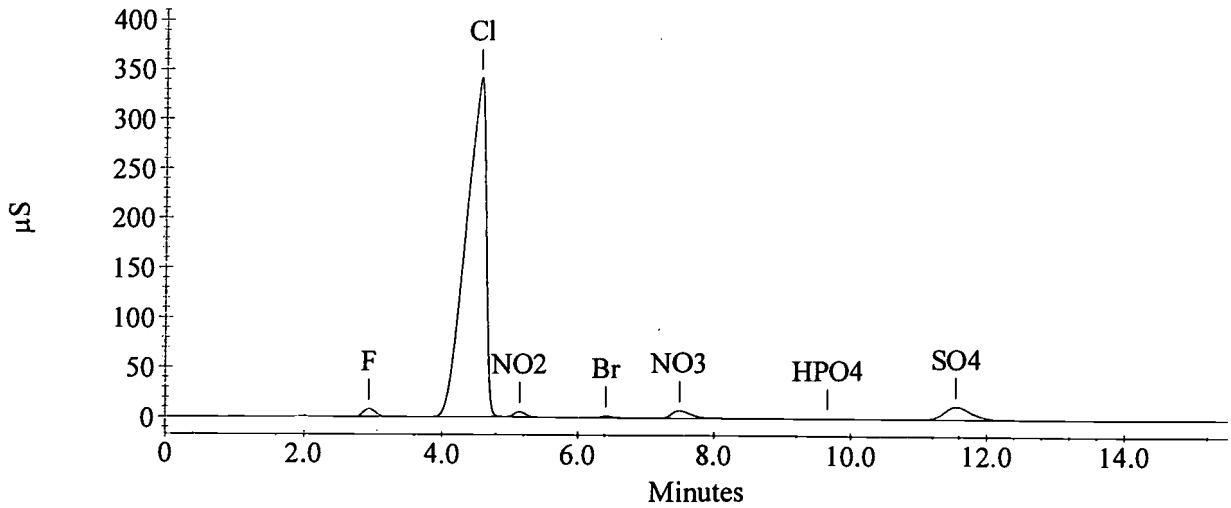
Sample Name : SPI01 A567128
Data File Name : C:\PeakNet51\data\09260101\DATA_022.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 10:06:39 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.94	1.98	978179	79691
2	Cl	4.57	186.16	70148504	3399773
3	NO2	5.14	0.88	581532	52079
4	Br	6.42	2.05	262237	17176
5	NO3	7.50	1.65	1401305	75056
6	HPO4	9.66	0.84	172861	6450
7	SO4	11.55	15.10	3610798	128299

SPI01 A567128



Sample Analysis Report

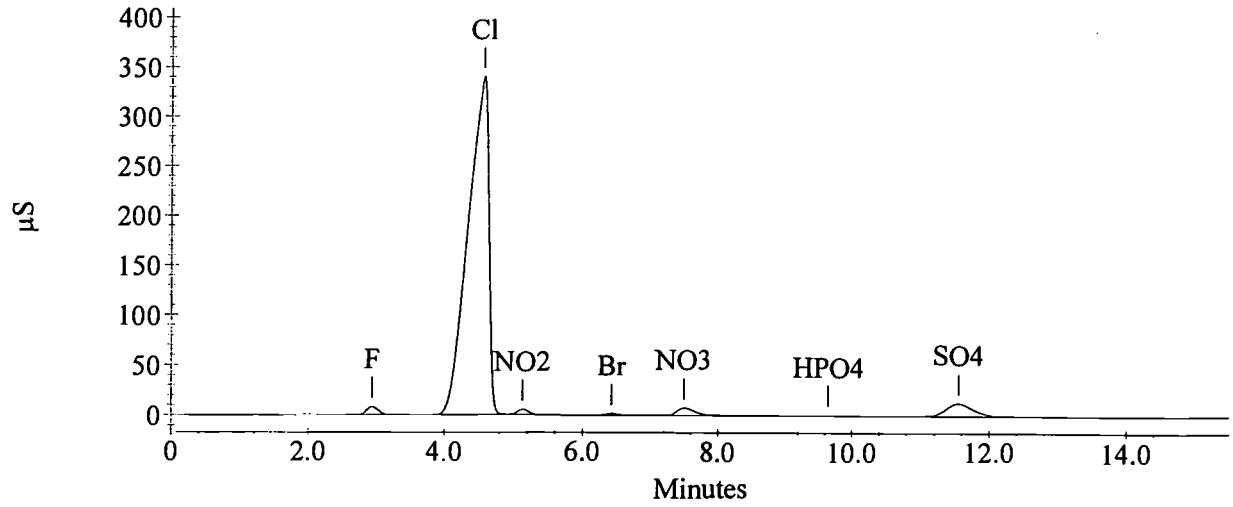
Sample Name : DPS01 A567128
Data File Name : C:\PeakNet51\data\09260101\DATA_023.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 10:24:46 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.94	1.97	970066	80014
2	Cl	4.57	186.18	70155062	3393315
3	NO2	5.13	0.89	589054	52311
4	Br	6.43	2.05	262919	17328
5	NO3	7.50	1.65	1406124	75302
6	HPO4	9.65	0.94	198333	7096
7	SO4	11.55	15.12	3615409	128581

DPS01 A567128



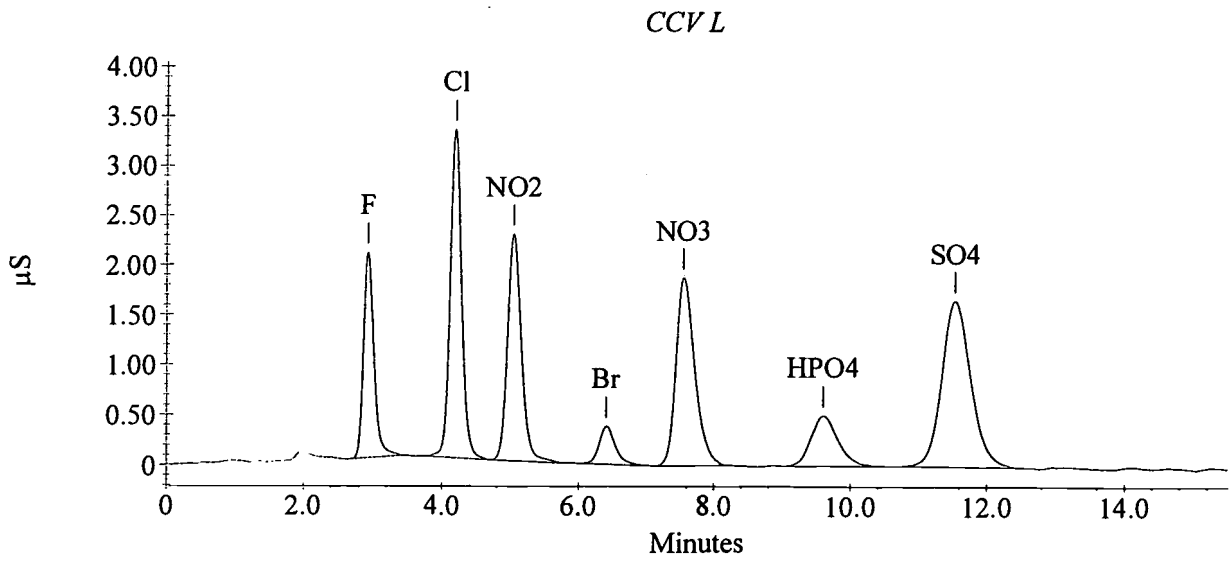
Sample Analysis Report

Sample Name : CCV L
Data File Name : C:\PeakNet51\data\09260101\DATA_024.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 10:42:55 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.93	0.43	213109	20509
2	Cl	4.19	1.31	371146	32887
3	NO2	5.04	0.49	310669	22646
4	Br	6.40	0.52	63303	3770
5	NO3	7.55	0.53	363843	18725
6	HPO4	9.60	0.70	136354	5001
7	SO4	11.53	2.68	489546	16521



Sample Analysis Report

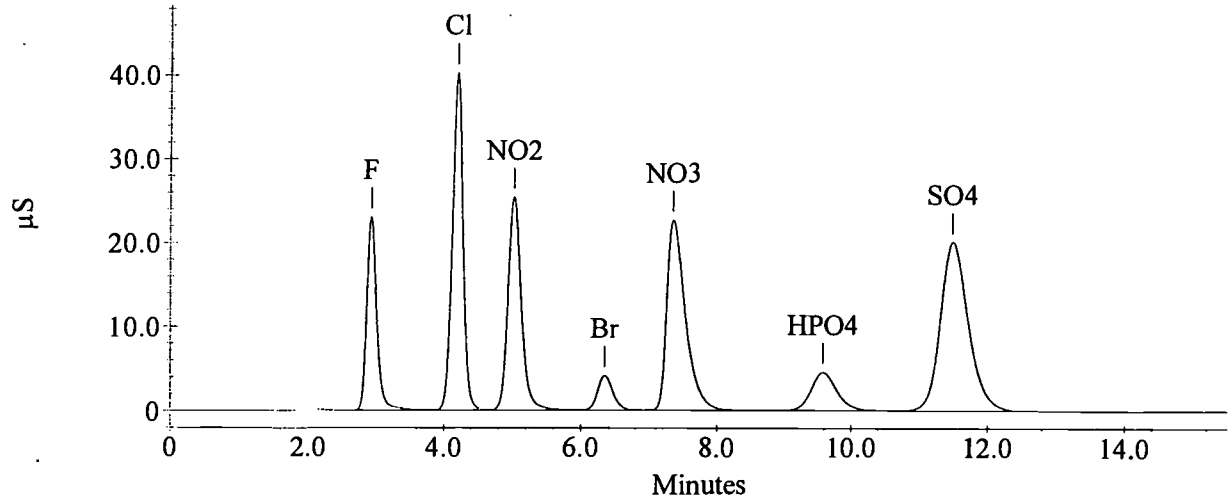
Sample Name : CCV H
Data File Name : C:\PeakNet51\data\09260101\DATA_025.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 11:00:59 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.93	4.82	2372943	229987
2	Cl	4.20	11.85	4349423	402142
3	NO2	5.03	4.96	3435160	253667
4	Br	6.34	4.90	632603	40788
5	NO3	7.36	4.75	4287724	226120
6	HPO4	9.58	4.73	1184986	45101
7	SO4	11.49	23.25	5658914	200960

CCV H



Sample Analysis Report

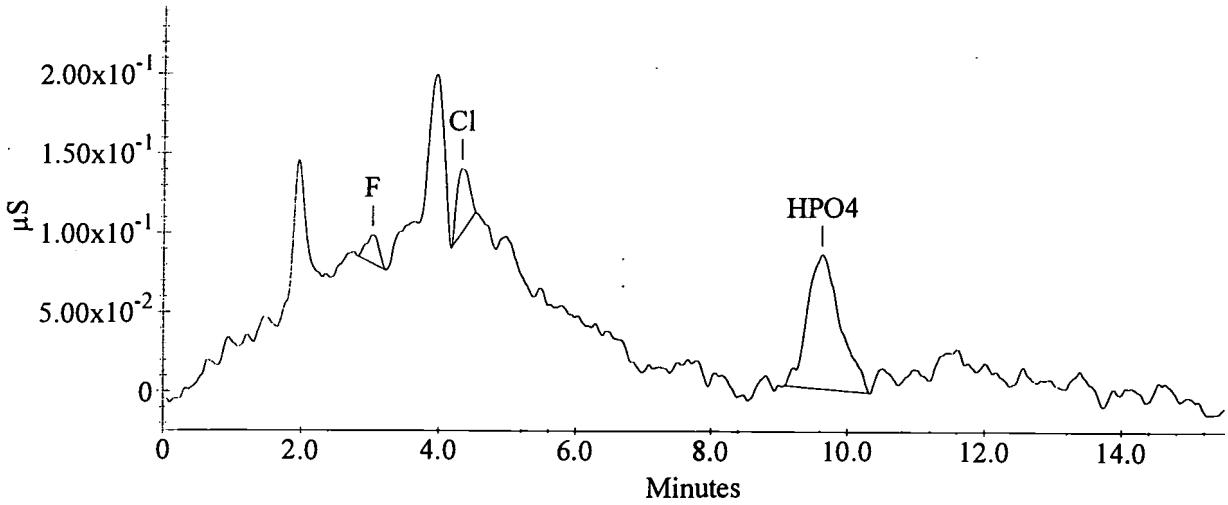
Sample Name : BLA01
Data File Name : C:\PeakNet51\data\09260101\DATA_026.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 11:19:09 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	3.03	0.00	2366	180
2	Cl	4.32	0.34	4915	404
3	HPO4	9.63	0.29	28280	845

BLA01



Run Number _____

File Number 01-0926

ION CHROMATOGRAPHY

Instrument # 268

Analyst JMM 1663

Start Date 26-Sep-01
Start Time 15:00

End Date 26-Sep-01
End Time 17:56

Reviewed By _____
Date _____

Recorded By _____
Date _____

Calibration

Date Time Collected:	Dilution Factor:	Sample Name:	F Peak Ar	Cl Peak A	NO2 Pea	Br Peak A	NO3 Pea	HPO4 Pe	SO4 Peak
9/26/01 15:00	1	AUTOCAL 1	0	0	0	0	0	2361	0
9/26/01 15:18	1	AUTOCAL 2	35437.9	64044	57213.8	11807.4	77397.3	19324.2	104743.4
9/26/01 15:37	1	AUTOCAL 3	75963.2	143252.2	117724.4	21212.4	140768.6	36297.4	195665.8
9/26/01 15:55	1	AUTOCAL 4	219494.4	374542.9	300957.3	63133.4	370734	86204.6	489316.6
9/26/01 16:13	1	AUTOCAL 5	435722.2	746965.5	618335.8	118050.4	732822.6	197835.7	997258.7
9/26/01 16:31	1	AUTOCAL 6	906713.1	1567286	1321768	255244.5	1554486	421463.4	2071105
9/26/01 16:49	1	AUTOCAL 7	2437907	4402601	3460267	623650.1	4218131	1148826	5645039
9/26/01 17:07	1	AUTOCAL 8	4919798	9424229	6953639	1299802	9324401	2574694	12539580
		low correl	**0.9996**	**0.9999**	**0.9999**	**0.9989**	**0.9999**	**0.9973**	**0.9999**
		std calc	0.013	0.018	0.007	0.002	0.000	0.023	0.003
			0.094	0.230	0.099	0.101	0.105	0.109	0.530
			0.185	0.493	0.197	0.179	0.192	0.196	0.987
			0.510	1.261	0.492	0.529	0.505	0.451	2.463
		std % rec	**94.00**	**92.00**	**99.00**	**101.00**	**105.00**	**109.00**	**106.00**
			92.50	**98.60**	**98.50**	**89.50**	**96.00**	**98.00**	**98.70**
			102.00	**100.88**	**98.40**	**105.80**	**101.00**	**90.20**	**98.52**
Date Time Collected:	Dilution Factor:	Sample Name:	F Peak Ar	Cl Peak A	NO2 Pea	Br Peak A	NO3 Pea	HPO4 Pe	SO4 Peak
9/26/01 15:00	1	AUTOCAL 1	0	0	0	0	0	2361	0
9/26/01 16:13	1	AUTOCAL 5	435722.2	746965.5	618335.8	118050.4	732822.6	197835.7	997258.7
9/26/01 16:31	1	AUTOCAL 6	906713.1	1567286	1321768	255244.5	1554486	421463.4	2071105
9/26/01 16:49	1	AUTOCAL 7	2437907	4402601	3460267	623650.1	4218131	1148826	5645039
9/26/01 17:07	1	AUTOCAL 8	4919798	9424229	6953639	1299802	9324401	2574694	12539580
		high correl	**0.9999**	**0.9992**	**0.9999**	**0.9998**	**0.9987**	**0.9983**	**0.9986**
	5	**std calc**	**0.97**	**2.49**	**0.95**	**0.98**	**1.01**	**1.02**	**5.14**
	6		**1.92**	**4.64**	**1.96**	**2.03**	**1.89**	**1.88**	**9.39**
	7		**5.01**	**12.08**	**5.01**	**4.86**	**4.72**	**4.68**	**23.51**
	8		**10.01**	**25.26**	**10.01**	**10.06**	**10.15**	**10.16**	**50.76**
	5	**std % rec**	**97.00**	**99.60**	**95.00**	**98.00**	**101.00**	**102.00**	**102.80**
	6		**96.00**	**92.80**	**98.00**	**101.50**	**94.50**	**94.00**	**93.90**
	7		**100.20**	**96.64**	**100.20**	**97.20**	**94.40**	**93.60**	**94.04**
	8		**100.10**	**101.04**	**100.10**	**100.60**	**101.50**	**101.60**	**101.52**

Calibration Date/Time Sep 26, 2001 15:00 to Sep 26, 2001 17:07

	AUTOCAL 1	AUTOCAL 2	AUTOCAL 3	AUTOCAL 4	AUTOCAL 5	AUTOCAL 6	AUTOCAL 7	AUTOCAL 8
F Peak Area	0	35438	75963	219494	435722	906713	2437907	4919798
Cl Peak Are	0	64044	143252	374543	746966	1567286	4402601	9424229
NO2 Peak A	0	57214	117724	300957	618336	1321768	3460267	6953639
Br Peak Are	0	11807	21212	63133	118050	255244	623650	1299802
NO3 Peak A	0	77397	140769	370734	732823	1554486	4218131	9324401
HPO4 Peak	2361	19324	36297	86205	197836	421463	1148826	2574694
SO4 Peak A	0	104743	195666	489317	997259	2071105	5645039	12539580

	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Fl Conc	0	0.1	0.2	0.5	1	2	5	10
Cl Conc	0	0.25	0.5	1.25	2.5	5	12.5	25
NO2 Conc	0	0.1	0.2	0.5	1	2	5	10
Br Conc	0	0.1	0.2	0.5	1	2	5	10
NO3 Conc	0	0.1	0.2	0.5	1	2	5	10
HPO4 Conc	0	0.1	0.2	0.5	1	2	5	10
SO4 Conc	0	0.5	1	2.5	5	10	25	50

Low Calibration Curve Autocal 1 - 5

Parameter	Slope	Intercept	Cor. Coef
F	2.2603e-06	0.01345	0.99959
Cl	3.3196e-06	0.01779	0.99989
NO_2	1.6129e-06	0.00702	0.99990
Br	8.3483e-06	0.00235	0.99889
NO_3	1.3630e-06	-0.00030	0.99990
HPO_4	5.1065e-06	0.01069	0.99733
SO_4	5.0284e-06	0.00287	0.99992

High Calibration Curve Autocal 1,5 - 8

Parameter	Slope	Intercept	Cor. Coef
F	2.0171e-06	0.09023	0.99988
Cl	2.6236e-06	0.53041	0.99920
NO_2	1.4288e-06	0.06962	0.99993
Br	7.6884e-06	0.06832	0.99978
NO_3	1.0628e-06	0.23523	0.99871
HPO_4	3.8476e-06	0.25627	0.99834
SO_4	3.9523e-06	1.20048	0.99858

Sample Areas less than L5 area are calculated using the low calibration.
Sample Areas between L5 area and the L8 are calculated using the high calibration.

Concentration = (Slope)*(area)+Intercept
y = (mx+b)

dified 11/18/98 sab

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
AUTOCAL 1 26-Sep-01 15:00														
	367	F	0	1	0.013			0.10	mg/L					
	223	Cl	0	1	0.018			0.25	mg/L					
	507	NO_2	0	1	0.007			0.050	mg/L					
	192	Br	0	1	0.002			0.050	mg/L					
	508	NO_3	0	1	0.000			0.050	mg/L					
	539	HPO_4	2361	1	0.023			0.050	mg/L					
	681	SO_4	0	1	0.003			0.25	mg/L					
AUTOCAL 2 26-Sep-01 15:18														
	367	F	35438	1	0.094			0.10	mg/L					
	223	Cl	64044	1	0.230			0.25	mg/L					
	507	NO_2	57214	1	0.099			0.050	mg/L					
	192	Br	11807	1	0.101			0.050	mg/L					
	508	NO_3	77397	1	0.105			0.050	mg/L					
	539	HPO_4	19324	1	0.109			0.050	mg/L					
	681	SO_4	104743	1	0.530			0.25	mg/L					
AUTOCAL 3 26-Sep-01 15:37														
	367	F	75963	1	0.185			0.10	mg/L					
	223	Cl	143252	1	0.493			0.25	mg/L					
	507	NO_2	117724	1	0.197			0.050	mg/L					
	192	Br	21212	1	0.179			0.050	mg/L					
	508	NO_3	140769	1	0.192			0.050	mg/L					
	539	HPO_4	36297	1	0.196			0.050	mg/L					
	681	SO_4	195666	1	0.987			0.25	mg/L					
AUTOCAL 4 26-Sep-01 15:55														
	367	F	219494	1	0.510			0.10	mg/L					
	223	Cl	374543	1	1.261			0.25	mg/L					
	507	NO_2	300957	1	0.492			0.050	mg/L					
	192	Br	63133	1	0.529			0.050	mg/L					
	508	NO_3	370734	1	0.505			0.050	mg/L					
	539	HPO_4	86205	1	0.451			0.050	mg/L					
	681	SO_4	489317	1	2.463			0.25	mg/L					
AUTOCAL 5 26-Sep-01 16:13														
	367	F	435722	1	0.998			0.10	mg/L					
	223	Cl	746966	1	2.490			0.25	mg/L					
	507	NO_2	618336	1	0.953			0.050	mg/L					
	192	Br	118050	1	0.988			0.050	mg/L					
	508	NO_3	732823	1	1.014			0.050	mg/L					
	539	HPO_4	197836	1	1.017			0.050	mg/L					
	681	SO_4	997259	1	5.142			0.25	mg/L					
AUTOCAL 6 26-Sep-01 16:31														
	367	F	906713	1	1.919			0.10	mg/L					
	223	Cl	1567286	1	4.642			0.25	mg/L					
	507	NO_2	1321768	1	1.958			0.050	mg/L					
	192	Br	255244	1	2.031			0.050	mg/L					
	508	NO_3	1554486	1	1.887			0.050	mg/L					
	539	HPO_4	421463	1	1.878			0.050	mg/L					
	681	SO_4	2071105	1	9.386			0.25	mg/L					
AUTOCAL 7 26-Sep-01 16:49														
	367	F	2437907	1	5.008			0.10	mg/L					
	223	Cl	4402601	1	12.081			0.25	mg/L					
	507	NO_2	3460267	1	5.014			0.050	mg/L					
	192	Br	623650	1	4.863			0.050	mg/L					
	508	NO_3	4218131	1	4.718			0.050	mg/L					
	539	HPO_4	1148826	1	4.677			0.050	mg/L					
	681	SO_4	5645039	1	23.511			0.25	mg/L					

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
AUTOCAL 8 26-Sep-01 17:07														
	367	F	4919798	1	10.014	HIGH		0.10	mg/L					
	223	Cl	9424229	1	25.256			0.25	mg/L					
	507	NO_2	6953639	1	10.005			0.050	mg/L					
	192	Br	1299802	1	10.062	HIGH		0.050	mg/L					
	508	NO_3	9324401	1	10.145			0.050	mg/L					
	539	HPO_4	2574694	1	10.163			0.050	mg/L					
	681	SO_4	12539580	1	50.760			0.25	mg/L					
ICV01 26-Sep-01 17:34														
	367	F	1743282	1	3.607	3.61		0.10	mg/L		4	90.3		
	223	Cl	4102374	1	11.293	11.3		0.25	mg/L		12	94.2		
	507	NO_2	2685817	1	3.907	3.91		0.050	mg/L		4	97.8		
	192	Br	484033	1	3.790	3.79		0.050	mg/L		4	94.8		
	508	NO_3	3694349	1	4.162	4.16		0.050	mg/L		4	104.0		
	539	HPO_4	728998	1	3.061	3.06		0.050	mg/L		4	76.5		*
	681	SO_4	4398895	1	18.586	18.6		0.25	mg/L		20	93.0		
ICV01 1:5 26-Sep-01 17:56														
	367	F	313406	5	3.609	3.61		0.50	mg/L		4	90.3		
	223	Cl	688215	5	11.512	11.5		1.3	mg/L		12	95.8		
	507	NO_2	458342	5	3.731	3.73		0.25	mg/L		4	93.3		
	192	Br	94616	5	3.961	3.96		0.25	mg/L		4	99.0		
	508	NO_3	641641	5	4.371	4.37		0.25	mg/L		4	109.3		
	539	HPO_4	180024	5	4.650	4.65		0.25	mg/L		4	116.3		*
	681	SO_4	779332	5	19.608	19.6		1.3	mg/L		20	98.0		

Calibration Update Report

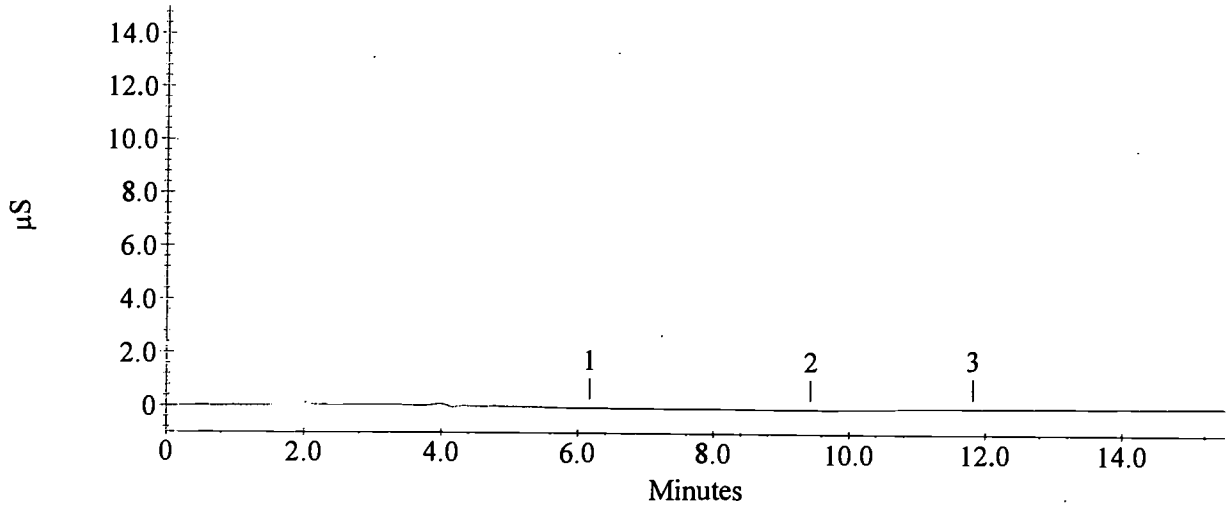
Sample Name : AUTOCAL 1
Data File Name : C:\PeakNet51\data\09260101\DATA_001.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 3:00:50 PM
Calibration Date : 9/26/01 3:18:48 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1		6.17			
	Cl				
	NO2				
	Br				
	NO3				
2	HPO4	9.44	8394	2361	2361
	SO4				

AUTOCAL 1



Calibration Update Report

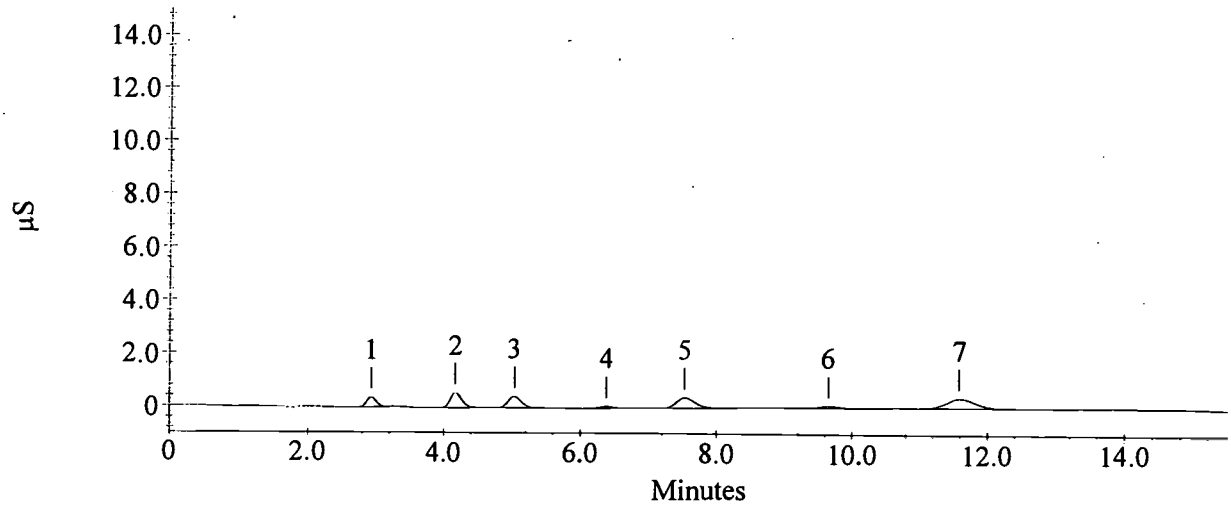
Sample Name : AUTOCAL 2
Data File Name : C:\PeakNet51\data\09260101\DATA_002.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 3:18:55 PM
Calibration Date : 9/26/01 3:36:53 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	F	2.93	39395	35438	35741
2	Cl	4.18	64921	64044	64044
3	NO2	5.03	56659	57214	57214
4	Br	6.38	10847	11807	11807
5	NO3	7.53	72668	77397	77397
6	HPO4	9.65	19827	19324	19324
7	SO4	11.59	105463	104743	104743

AUTOCAL 2



Calibration Update Report

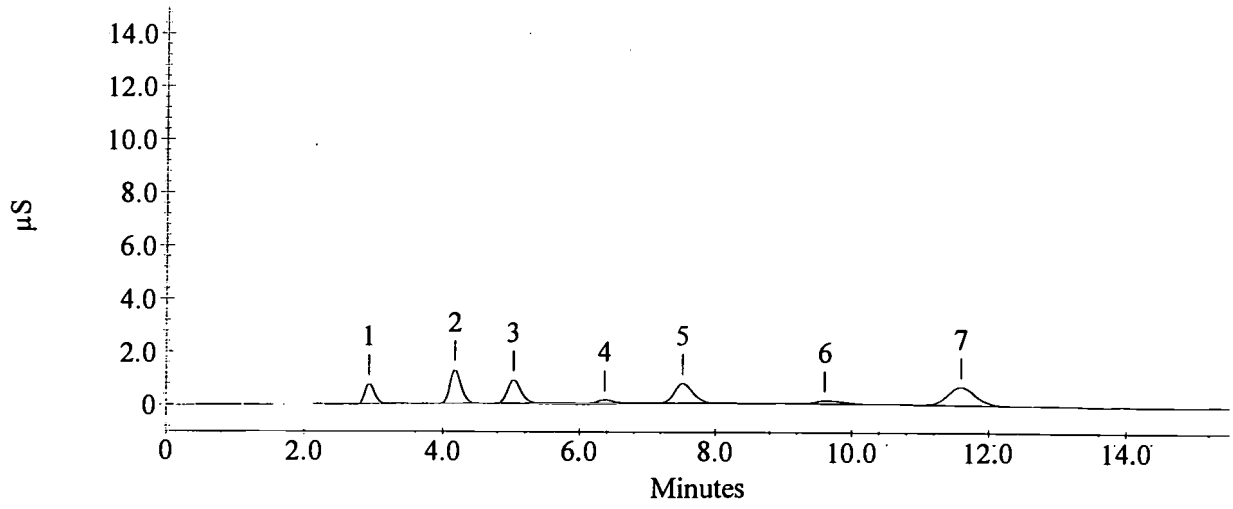
Sample Name : AUTOCAL 3
Data File Name : C:\PeakNet51\data\09260101\DATA_003.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 3:37:00 PM
Calibration Date : 9/26/01 3:54:58 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	F	2.93	78336	75963	82315
2	Cl	4.18	154486	143252	143872
3	NO2	5.03	118704	117724	117724
4	Br	6.37	24265	21212	21212
5	NO3	7.52	145132	140769	140769
6	HPO4	9.61	24863	36297	36297
7	SO4	11.60	212946	195666	195666

AUTOCAL 3



Calibration Update Report

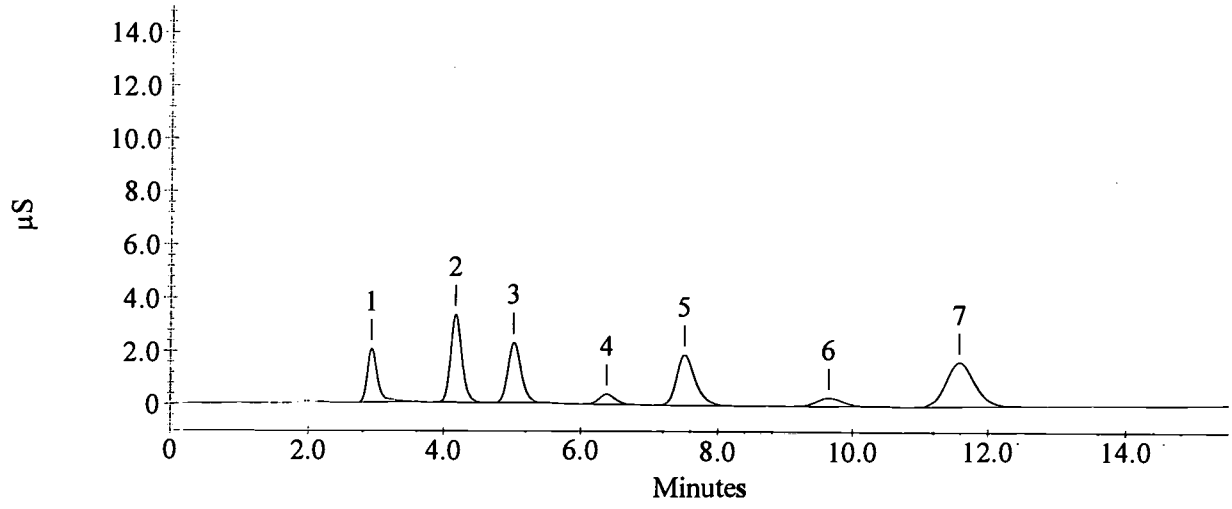
Sample Name : AUTOCAL 4
Data File Name : C:\PeakNet51\data\09260101\DATA_004.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 3:55:04 PM
Calibration Date : 9/26/01 4:13:08 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	F	2.92	201242	219494	219494
2	Cl	4.17	359534	374543	374543
3	NO2	5.02	312550	300957	300957
4	Br	6.37	65445	63133	63133
5	NO3	7.51	358351	370734	370734
6	HPO4	9.64	84126	86205	86205
7	SO4	11.58	477984	489317	495934

AUTOCAL 4



Calibration Update Report

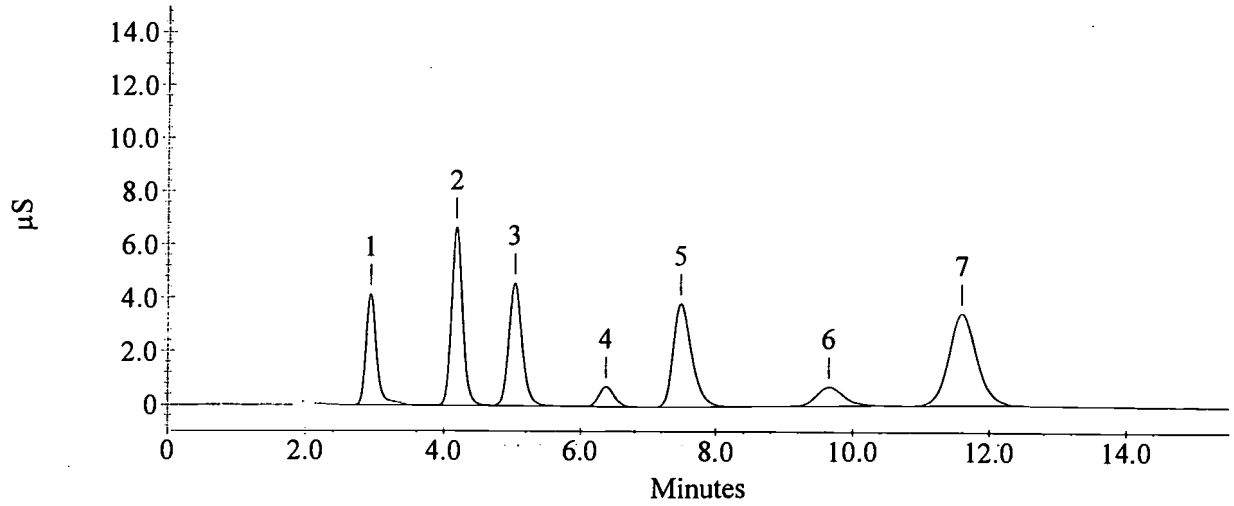
Sample Name : AUTOCAL 5
Data File Name : C:\PeakNet51\data\09260101\DATA_005.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 4:13:14 PM
Calibration Date : 9/26/01 4:31:13 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	F	2.93	401804	435722	435722
2	Cl	4.18	780049	746966	746966
3	NO2	5.03	619567	618336	618336
4	Br	6.37	117752	118050	118050
5	NO3	7.48	743211	732823	732823
6	HPO4	9.65	187107	197836	197836
7	SO4	11.59	1000769	997259	1010490

AUTOCAL 5



Calibration Update Report

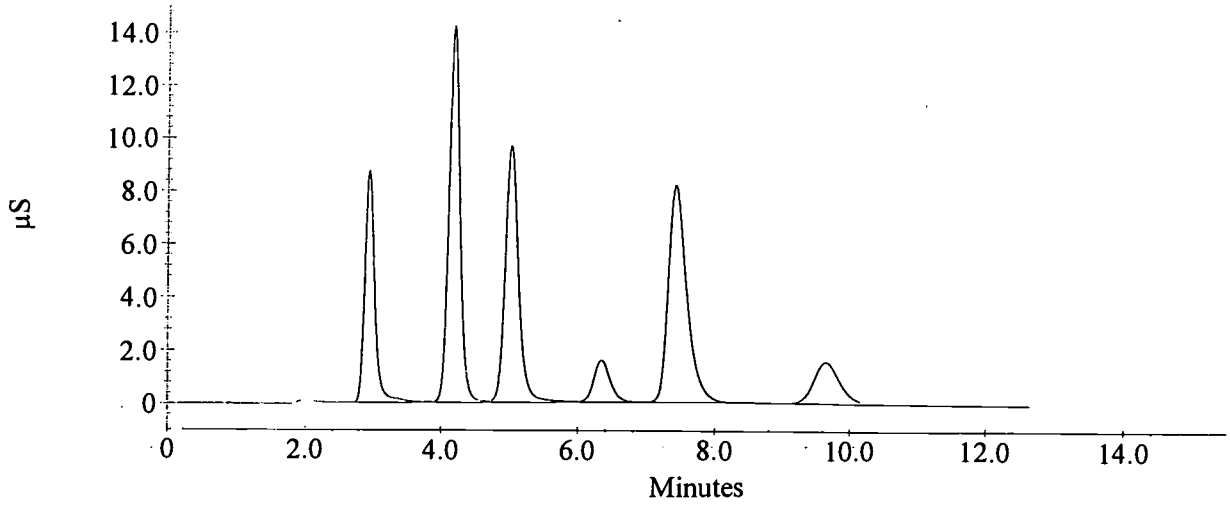
Sample Name : AUTOCAL 6
Data File Name : C:\PeakNet51\data\09260101\DATA_006.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 4:31:18 PM
Calibration Date : 9/26/01 4:49:17 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	F	2.93	894709	906713	925307
2	Cl	4.18	1535839	1567286	1576832
3	NO2	5.02	1258149	1321768	1332741
4	Br	6.34	237961	255244	260245
5	NO3	7.42	1511946	1554486	1557417
6	HPO4	9.65	413563	421463	421576
7	SO4	11.57	2060935	2071105	2070787

AUTOCAL 6



Calibration Update Report

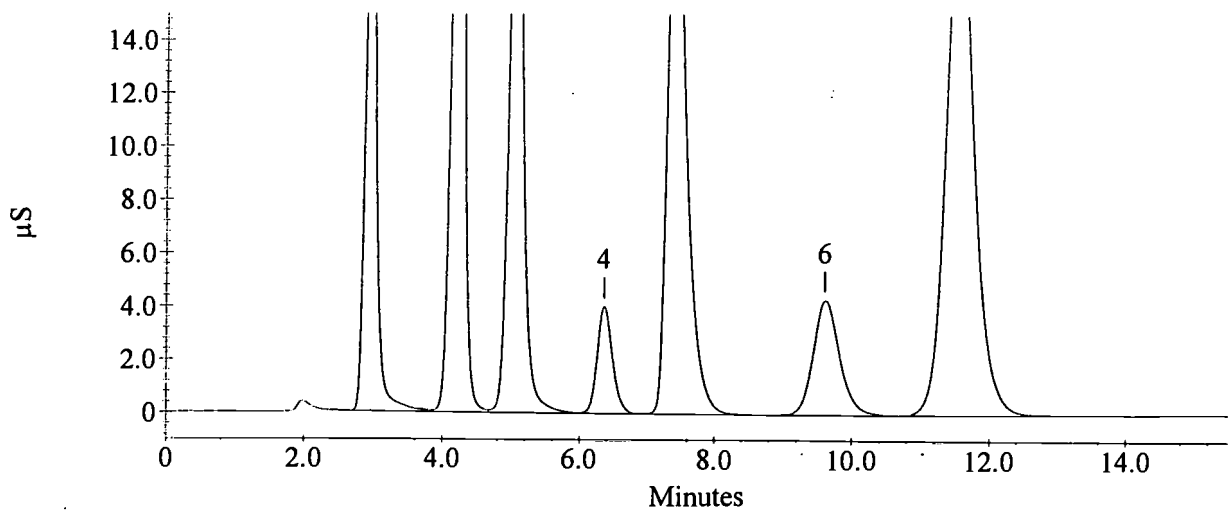
Sample Name : AUTOCAL 7
Data File Name : C:\PeakNet51\data\09260101\DATA_007.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 4:49:22 PM
Calibration Date : 9/26/01 5:07:27 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	F	2.94	2397218	2437907	2461582
2	Cl	4.20	4378596	4402601	4416196
3	NO2	5.04	3366947	3460267	3476332
4	Br	6.36	609038	623650	631542
5	NO3	7.39	4181035	4218131	4222995
6	HPO4	9.61	1161314	1148826	1148705
7	SO4	11.53	5659900	5645039	5645070

AUTOCAL 7



Calibration Update Report

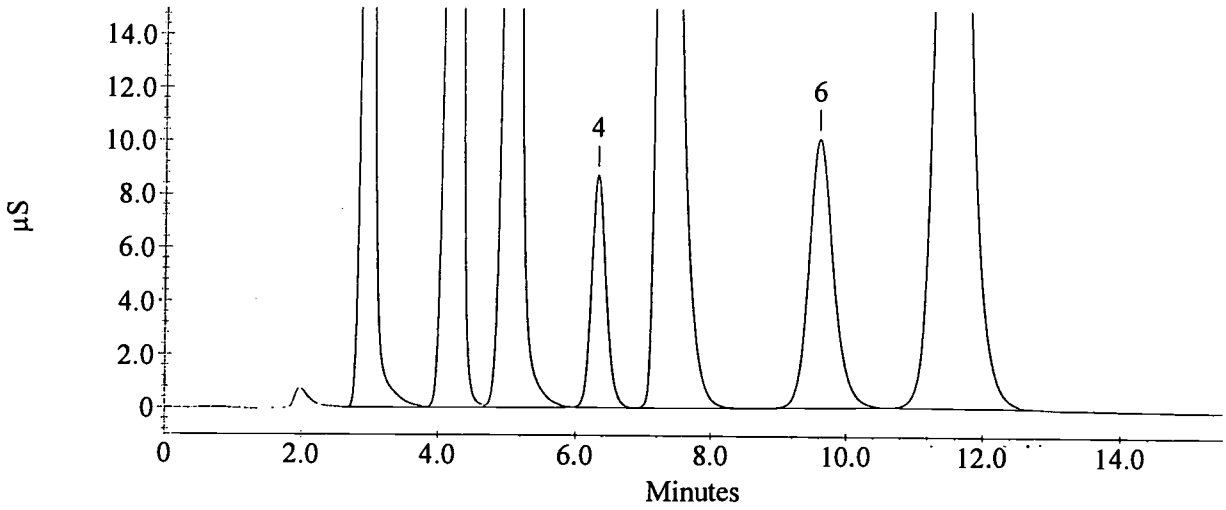
Sample Name : AUTOCAL 8
Data File Name : C:\PeakNet51\data\09260101\DATA_008.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\09260101.sch
Date Time Collected : 9/26/01 5:07:33 PM
Calibration Date : 9/26/01 5:25:31 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	F	2.95	4898640	4919798	4935813
2	Cl	4.22	9544888	9424229	9432720
3	NO2	5.05	6959721	6953639	6962526
4	Br	6.32	1346348	1299802	1303102
5	NO3	7.28	9306618	9324401	9326088
6	HPO4	9.60	2540871	2574694	2614340
7	SO4	11.49	12297718	12539580	12625084

AUTOCAL 8



Sample Analysis Report

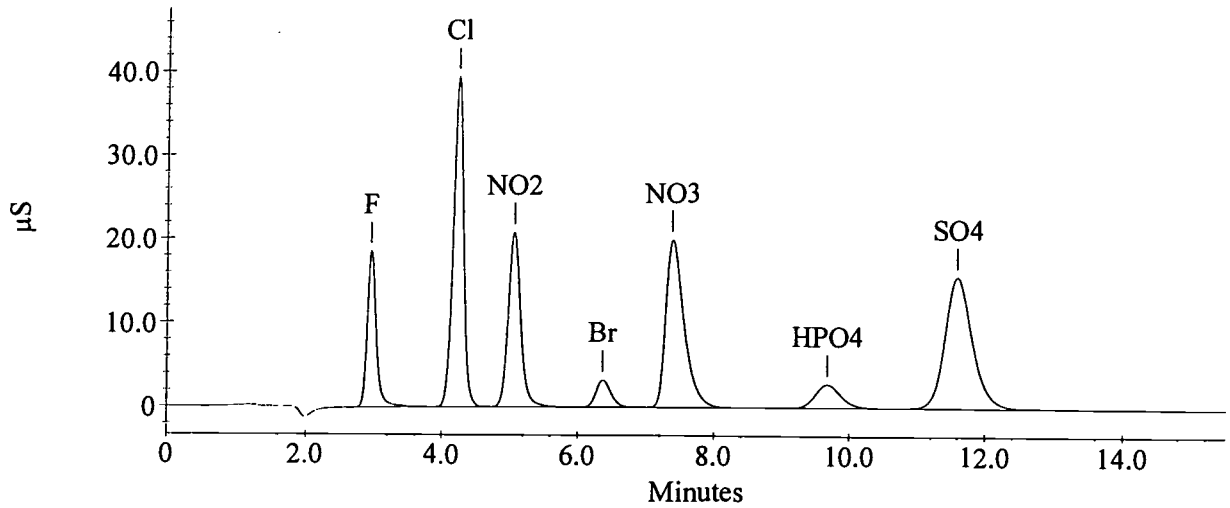
Sample Name : ICV01
Data File Name : C:\PeakNet51\data\09260101\DATA_009.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 5:34:08 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.95	3.54	1743282	185394
2	Cl	4.23	11.19	4102374	393733
3	NO2	5.06	3.89	2685817	208577
4	Br	6.36	3.75	484033	32379
5	NO3	7.38	4.12	3694349	199692
6	HPO4	9.67	2.98	728998	27995
7	SO4	11.59	18.23	4398895	156547

ICV01



Sample Analysis Report

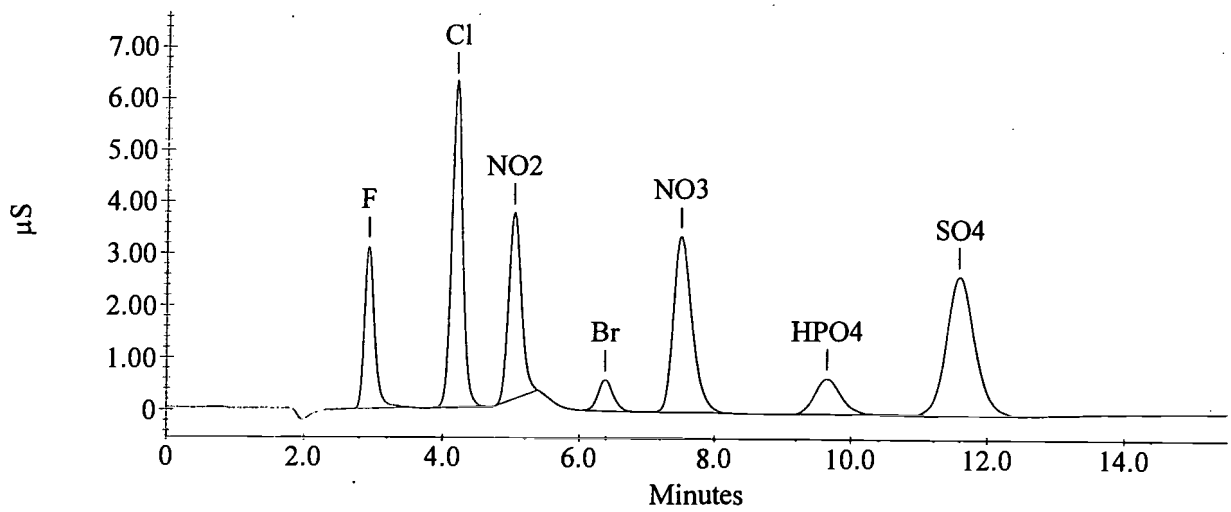
Sample Name : ICV01 1:5
Data File Name : C:\PeakNet51\data\09260101\DATA_010.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 9/26/01 5:56:34 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.93	3.16	313406	30961
2	Cl	4.18	10.74	688215	62552
3	NO2	5.03	3.53	458342	35760
4	Br	6.38	3.80	94616	5962
5	NO3	7.50	4.15	641641	33712
6	HPO4	9.65	4.34	180024	6762
7	SO4	11.58	19.14	779332	26525

ICV01 1:5



HERITAGE ENVIRONMENTAL SERVICES, LLC

7901 West Morris Street
Indianapolis, IN 46231
Phone: 317/243-0811
Fax: 317/486-5095
Internet:http://www.heritage-enviro.com

CASE NARRATIVE
GC/MS VOLATILES AND SEMI-VOLATILES
EPA 524.2 and 525.2
A567128
DK27547
10/11/01

Semi-volatiles:

Sample does not meet QC criteria for internal standard areas. The sample was reanalyzed with no improvement in recovery.

There were no other QC problems encountered with the analysis of this sample.

Regina Shamp
GCMS Group Leader

Recycled Paper

GC/MS VOLATILE QC PACKAGE

IDEM

LAB # A567128 PACKAGE : **IDMR**

GCMS#9

8/15/01	FILE ID #
BFB TUNE [4289J]	FORM 5
BFB TUNE CHECK 8/15/01	4289J
INITIAL CALIBRATION DATE	FORM
INITIAL CALIBRATION [RAW DATA]	
VSTD001	4290J
VSTD005	4291J
VSTD010	4292J
VSTD020	4293J
VSTD040	4294J

9/28/01

BFB TUNE [5049J]	FORM 5
INTERNAL STANDARD AREA SUMMARY [5050J]	FORM 8
WATER SURROGATE RECOVERY	FORM 2A
BFB TUNE CHECK 9/28/01	5049J
CALIBRATION CHECK STANDARD	5050J
METHOD BLANK	50521
LCS [5052J] (ICV)	FORM
LCS 9/28/01	5052J
A567128 DK27547	5062J
QUARTERLY QC STANDARD [8/24/01]	4440J

GC/MS SEMI - VOLATILE QC PACKAGE

IDEM

LAB # A567128 PACKAGE : **IDMR**

GCMS#8

9/13/01	FILE ID #
DFTPP TUNE [5093H]	FORM 5
DFTPP TUNE CHECK 9/13/01	5093H
INITIAL CALIBRATION DATE	FORM
INITIAL CALIBRATION [RAW DATA]	
SSTD2.0	5094H
SST0.1	5095H
SSTD0.5	5096H
SSTD1.0	5097H
SSTD5.0	5098H
SSTD10	5099H

9/16/01	
DFTPP TUNE [5123H]	FORM 5
INTERNAL STANDARD AREA SUMMARY [5124H]	FORM 8
WATER SURROGATE RECOVERY	FORM 2C
DFTPP TUNE CHECK 9/16/01	5123H
CALIBRATION CHECK STANDARD	5124H
METHOD BLANK #SVL2300-744	5125H
SAMPLE MS [5129H]	FORM
A565830 MATRIX SPIKE	5129H

10/08/01	
DFTPP TUNE [5216H]	FORM 5
DFTPP TUNE CHECK 10/08/01	5216H
INITIAL CALIBRATION DATE	FORM
INITIAL CALIBRATION [RAW DATA]	
SSTD2.0	5217H
SST0.1	5218H
SSTD0.5	5219H
SSTD1.0	5220H
SSTD5.0	5221H
SSTD10	5222H
SSTD0.02	5223H

GC/MS SEMI - VOLATILE QC PACKAGE

IDEM

LAB # A567128 PACKAGE : **IDMR**

GCMS#8

10/08/01	FILE ID #
DFTPP TUNE [5216H]	FORM 5
INTERNAL STANDARD AREA SUMMARY [5217H]	FORM 8
WATER SURROGATE RECOVERY	FORM 2C
DFTPP TUNE CHECK 10/08/01	5216H
CAL01 CHECK STANDARD	5217H
PREP METHOD BLANK #SVL2300-755	5224H
LCS #003 [5225H]	FORM
LCS #003 10/08/01	5225H
A567128 DK27547	5226H

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: 4289J.D BFB Injection Date: 08/15/01

Instrument ID: GCMS#9 BFB Injection Time: 07:38

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	31.8
75	30.0 - 66.0% of mass 95	56.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	53.6
175	4.0 - 9.0% of mass 174	3.6 (6.8)1
176	93.0 - 101.0% of mass 174	53.6 (100.0)1
177	5.0 - 9.0% of mass 176	3.4 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

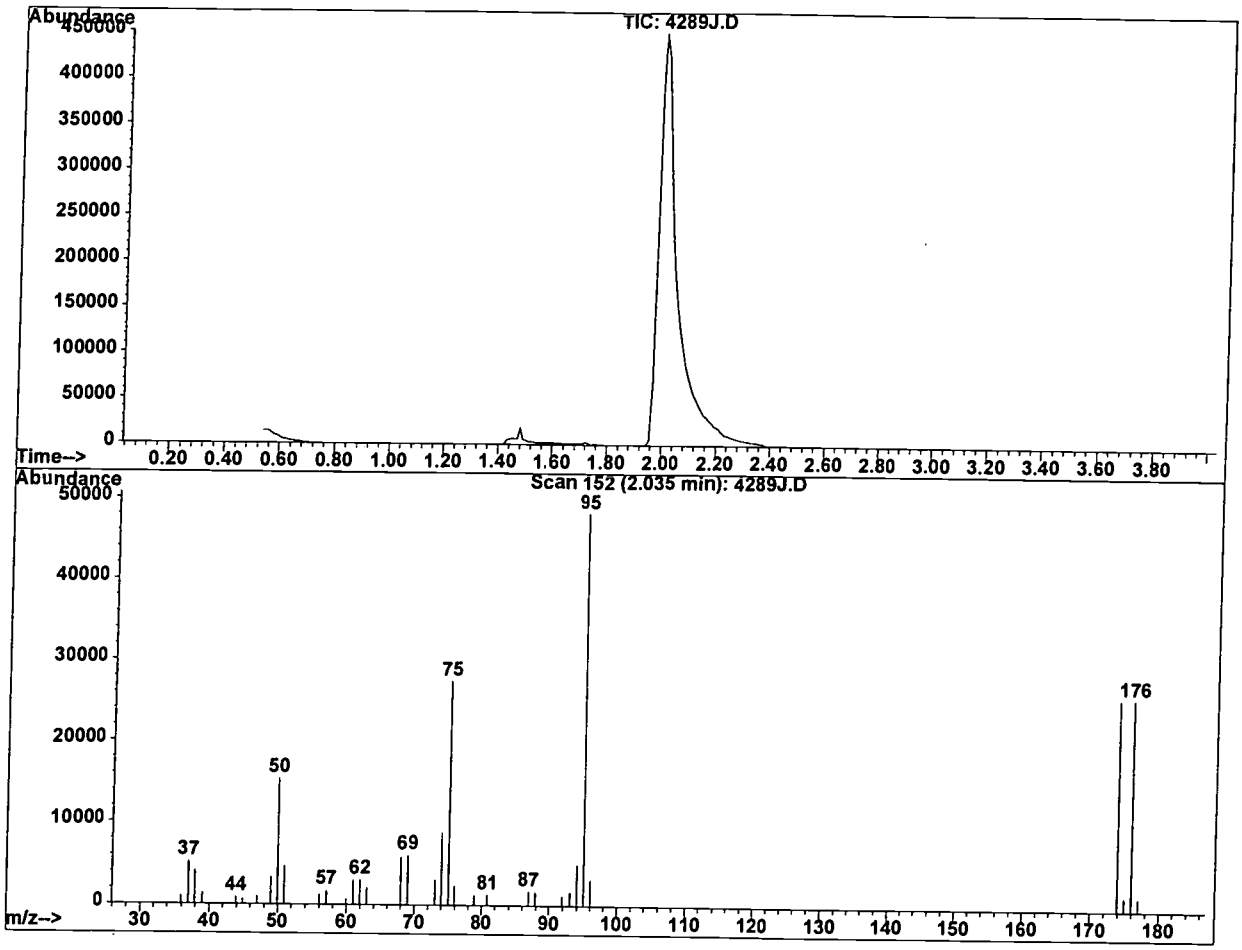
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD01	DW STD01	4290J.D	08/15/01	07:58
02	VSTD05	DW STD05	4291J.D	08/15/01	08:30
03	VSTD010	DW STD010	4292J.D	08/15/01	09:03
04	VSTD020	DW STD020	4293J.D	08/15/01	09:35
05	VSTD040	DW STD040	4294J.D	08/15/01	10:07

/ HKS 8-20-1

BFB

Data File : C:\HPCHEM\DATA\J081501\4289J.D
Acq On : 15 Aug 01 7:38
Sample : BFB TUNE CHECK
Misc : 8/15/01
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS

Vial: 19
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00



Spectrum Information: Scan 152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.8	15339	PASS
75	95	30	80	56.8	27440	PASS
95	95	100	100	100.0	48288	PASS
96	95	5	9	6.7	3231	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	53.6	25872	PASS
175	174	5	9	6.8	1759	PASS
176	174	95	101	100.0	25880	PASS
177	176	5	9	6.4	1651	PASS

4289J.D DWJ.M Wed Aug 15 07:43:21 2001 RPT1

AS 8-20-1

Scan 152 (2.035 min): 4289J.D
BFB TUNE CHECK

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1013	57.00	1764	78.85	1217	175.95	25880
36.95	5176	59.95	712	80.85	1296	176.95	1651
37.90	4145	60.95	2985	86.90	1712		
39.00	1454	61.95	3047	87.90	1656		
43.90	857	62.95	2123	91.95	1217		
44.90	702	68.00	5844	92.95	1696		
46.95	968	69.00	6036	93.95	5025		
48.95	3309	73.00	3094	94.95	48288		
49.95	15339	74.00	8817	96.00	3231		
50.95	4683	75.05	27440	173.90	25872		
56.00	1233	75.95	2323	174.90	1759		

Response Factor Report GCMS#9

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration

Calibration Files
1 =4290J.D 5 =4291J.D 10 =4292J.D
20 =4293J.D 40 =4294J.D

		Compound	1	5	10	20	40	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------						
2)	T	Dichlorodifluorometha	0.706	0.766	0.826	0.809	0.819	0.785	6.35
3)	T	Chloromethane	0.444	0.526	0.528	0.521	0.537	0.511	7.43
4)	T	Vinyl Chloride	0.443	0.498	0.518	0.518	0.541	0.504	7.38
5)	T	Bromomethane	0.298	0.297	0.376	0.363	0.350	0.337	10.98
6)	T	Chloroethane	0.326	0.291	0.287	0.267	0.284	0.291	7.40
7)	T	Trichlorofluoromethan	1.188	1.219	1.308	1.273	1.282	1.254	3.93
8)	T	1,1-Dichloroethene	0.431	0.466	0.528	0.506	0.569	0.500	10.74
9)		Acetone	0.091	0.031	0.022	0.030	0.026	0.040	71.51
10)	T	Methylene Chloride	0.303	0.295	0.318	0.358	0.390	0.333	12.07
11)	T	1,2-Dichloroethene(tr	0.459	0.501	0.553	0.571	0.628	0.542	12.00
12)	T	1,1-Dichloroethane	1.035	1.018	1.151	1.208	1.326	1.148	11.11
13)		MTBE	0.418	0.435	0.469	0.444	0.509	0.455	7.77
14)	T	2,2-Dichloropropane	1.240	1.334	1.352	1.375	1.459	1.352	5.84
15)	T	2-butanone	0.039	0.049	0.049	0.055	0.063	0.051	16.86
16)	T	1,2-Dichloroethene(ci	0.446	0.524	0.493	0.558	0.612	0.527	11.96
17)	T	Chloroform	1.075	1.083	1.164	1.205	1.312	1.168	8.36
18)		Tetrahydrofuran	0.173	0.028	0.020	0.023	0.024	0.054	125.20
19)	T	Bromochloromethane	0.119	0.151	0.150	0.160	0.195	0.155	17.51
20)	T	1,1,1-Trichloroethane	1.204	1.349	1.382	1.408	1.491	1.367	7.69
21)	S	1,2-Dichloroethane-d4	0.443	0.393	0.424	0.445	0.488	0.439	7.84
22)	I	1-CHLORO-2-BROMOPROPA	----------ISTD----------						
23)	T	1,1-Dichloropropene	0.483	0.594	0.587	0.608	0.669	0.588	11.42
24)	T	Carbon Tetrachloride	2.090	2.288	2.499	2.436	2.710	2.405	9.65
25)	T	1,2-Dichloroethane	0.894	0.969	0.976	1.015	1.101	0.991	7.62
26)	T	Benzene	3.201	3.739	3.796	3.730	4.298	3.753	10.36
27)	T	Trichloroethene	1.132	1.309	1.322	1.321	1.493	1.315	9.72
28)	T	1,2-Dichloropropane	0.406	0.552	0.538	0.526	0.583	0.521	12.97
29)	T	Bromodichloromethane	1.338	1.637	1.659	1.642	1.858	1.627	11.43
30)	T	Dibromomethane	0.311	0.376	0.398	0.427	0.478	0.398	15.49
31)	T	cis-1,3-Dichloroprope	1.121	1.368	1.402	1.383	1.580	1.371	11.95
32)		4-methyl-2-pentanone	0.342	0.354	0.371	0.369	0.416	0.370	7.62
33)	S	Toluene-d8	3.562	3.653	3.514	3.527	3.991	3.649	5.44
34)	T	Toluene	3.628	4.283	4.297	4.228	4.781	4.243	9.67
35)		2-hexanone	0.194	0.223	0.228	0.223	0.259	0.225	10.35
36)	T	trans-1,3-Dichloropro	0.923	0.951	0.973	0.947	1.075	0.974	6.06
37)	T	1,1,2-Trichloroethane	0.363	0.458	0.459	0.453	0.509	0.449	11.75
38)	T	1,3-Dichloropropane	0.738	0.890	0.906	0.880	0.978	0.879	9.95
39)	T	Tetrachloroethene	1.472	1.723	1.743	1.733	1.942	1.722	9.69
40)	T	Dibromochloromethane	0.539	0.688	0.751	0.735	0.823	0.707	14.93
41)	T	1,2-Dibromomethane	0.422	0.532	0.541	0.534	0.599	0.526	12.19
42)	T	Chlorobenzene	2.053	2.456	2.476	2.431	2.738	2.431	10.08
43)	T	1,1,1,2-Tetrachloroet	0.808	0.948	0.974	0.950	1.056	0.947	9.42
44)	T	Ethyl Benzene	1.260	1.536	1.563	1.544	1.688	1.518	10.33
45)	T	m,p-Xylene	1.731	1.979	1.952	1.928	2.086	1.935	6.66
46)	T	o-Xylene	1.441	1.761	1.736	1.687	1.797	1.684	8.42
47)	T	Styrene	1.969	2.483	2.497	2.425	2.645	2.404	10.66
48)	T	Bromoform	0.251	0.325	0.360	0.361	0.401	0.340	16.64

49)	T	Isopropylbenzene	5.430	6.363	6.389	6.175	6.645	6.201	7.45
50)	T	1,1,2,2-Tetrachloroet	0.417	0.496	0.520	0.496	0.546	0.495	9.72
51)	S	4-Bromofluorobenzene	1.980	2.031	1.943	1.911	2.065	1.986	3.16
52)	T	1,2,3-Trichloropropan	0.315	0.401	0.419	0.394	0.426	0.391	11.27
53)	T	n-Propylbenzene	0.761	0.901	0.965	0.901	0.962	0.898	9.21
54)	T	Bromobenzene	2.112	2.498	2.497	2.545	2.609	2.452	7.98
55)	T	1,3,5-Trimethylbenzen	4.010	4.816	4.763	4.546	4.723	4.572	7.21
56)	T	2-Chlorotoluene	0.924	1.127	1.124	1.080	1.140	1.079	8.30
57)	T	4-Chlorotoluene	0.873	1.043	1.064	1.020	1.061	1.012	7.91
58)	T	t-Butylbenzene	4.127	5.024	5.024	4.788	4.998	4.792	8.03
59)	T	1,2,4-Trimethylbenzen	3.687	4.492	4.488	4.212	4.349	4.246	7.85
60)	T	sec-Butylbenzene	6.278	7.660	7.716	7.261	7.634	7.310	8.27
61)	T	p-Isopropyltoluene	4.682	5.786	5.781	5.412	5.559	5.444	8.34
62)	T	1,3-Dichlorobenzene	1.654	1.918	1.954	1.853	1.896	1.855	6.38
63)	T	1,4-Dichlorobenzene	1.604	1.807	1.902	1.766	1.802	1.776	6.12
64)	T	n-Butylbenzene	3.018	3.740	3.765	3.533	3.613	3.534	8.59
65)	T	1,2-Dichlorobenzene	1.167	1.439	1.454	1.364	1.407	1.366	8.54
66)	T	1,2-Dibromochloroprop	0.052	0.072	0.083	0.082	0.087	0.075	18.87
67)	T	1,2,4-Trichlorobenzen	0.873	1.076	1.130	1.053	0.850	0.996	12.70
68)	T	Hexachlorobutadiene	1.179	1.655	1.717	1.556	1.165	1.454	18.16
69)	T	Naphthalene	0.561	0.712	0.708	0.673	0.690	0.669	9.31
70)	T	1,2,3-Trichlorobenzen	0.623	0.783	0.791	0.748	0.579	0.705	13.84

(#) = Out of Range

DWJ.M Wed Aug 15 10:43:16 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4290J.D
Acq On : 15 Aug 01 7:58
Sample : DW STD01
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:42 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.71	96	1978526	10.00 UG/L	0.12
22) 1-CHLORO-2-BROMOPROPANE	9.70	77	960093	10.00 UG/L	0.08
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.01	65	43805m	0.48 UG/L	0.04
Spiked Amount 5.000			Recovery	= 9.60%	
33) Toluene-d8	8.85	98	171011m	0.46 UG/L	0.02
Spiked Amount 5.000			Recovery	= 9.20%	
51) 4-Bromofluorobenzene	15.24	95	95060	0.46 UG/L	0.02
Spiked Amount 5.000			Recovery	= 9.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.27	85	139768m	0.92 UG/L	100
3) Chloromethane	1.39	50	87824m	1.05 UG/L	100
4) Vinyl Chloride	1.45	62	87715m	1.03 UG/L	96
5) Bromomethane	1.66	94	58966m	0.85 UG/L	99
6) Chloroethane	1.72	64	64507m	1.16 UG/L	94
7) Trichlorofluoromethane	1.90	101	235005m	0.84 UG/L	90
8) 1,1-Dichloroethene	2.25	96	85253m	0.88 UG/L	45
9) Acetone	2.28	43	35888	7.12 UG/L #	100
10) Methylene Chloride	2.60	84	59941m	0.94 UG/L	67
11) 1,2-Dichloroethene(trans)	2.85	96	90772m	0.88 UG/L	63
12) 1,1-Dichloroethane	3.22	63	204681m	0.92 UG/L	100
13) MTBE	2.85	73	165287m	1.85 UG/L	100
14) 2,2-Dichloropropane	3.84	77	245356m	0.88 UG/L	100
15) 2-butanone	3.88	43	15609m	1.81 UG/L	100
16) 1,2-Dichloroethene(cis)	3.84	96	88282m	0.88 UG/L	23
17) Chloroform	4.25	83	212682m	0.89 UG/L	99
18) Tetrahydrofuran	2.81	42	68590	14.34 UG/L	100
19) Bromochloromethane	4.14	128	23532m	0.75 UG/L	1
20) 1,1,1-Trichloroethane	4.53	97	238153m	0.80 UG/L	93
23) 1,1-Dichloropropene	4.81	110	46357m	0.73 UG/L	100
24) Carbon Tetrachloride	4.80	117	200673m	0.73 UG/L	84
25) 1,2-Dichloroethane	5.12	62	85858m	0.85 UG/L	75
26) Benzene	5.19	78	307319m	0.84 UG/L	100
27) Trichloroethene	6.38	130	108673m	0.78 UG/L	1
28) 1,2-Dichloropropane	6.76	76	39003	0.70 UG/L	100
29) Bromodichloromethane	7.31	83	128456m	0.79 UG/L	98
30) Dibromomethane	7.00	93	29903m	0.77 UG/L	92
31) cis-1,3-Dichloropropene	8.28	75	107606m	0.82 UG/L	100
32) 4-methyl-2-pentanone	8.67	43	65603m	1.93 UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4290J.D
Acq On : 15 Aug 01 7:58
Sample : DW STD01
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:42 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Toluene	9.03	91	348282m	0.82 UG/L	100
35) 2-hexanone	10.61	43	37158m	1.89 UG/L	100
36) trans-1,3-Dichloropropene	9.54	75	88648m	0.91 UG/L	100
37) 1,1,2-Trichloroethane	9.92	97	34875	0.80 UG/L #	77
38) 1,3-Dichloropropane	10.30	76	70863m	0.82 UG/L	100
39) Tetrachloroethene	10.26	166	141322m	0.75 UG/L	92
40) Dibromochloromethane	10.80	129	51775	0.66 UG/L	100
41) 1,2-Dibromomethane	11.01	107	40558m	0.74 UG/L	85
42) Chlorobenzene	12.26	112	197089m	0.79 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.48	131	77582m	0.74 UG/L	100
44) Ethyl Benzene	12.63	106	120984	0.76 UG/L #	68
45) m,p-Xylene	12.92	106	332405m	1.70 UG/L	56
46) o-Xylene	13.91	106	138344	0.82 UG/L	75
47) Styrene	13.95	104	189067m	0.77 UG/L	1
48) Bromoform	14.31	173	24092m	0.61 UG/L	86
49) Isopropylbenzene	14.89	105	521358m	0.81 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.71	83	40037	0.82 UG/L	90
52) 1,2,3-Trichloropropane	15.77	75	30290	0.80 UG/L #	43
53) n-Propylbenzene	16.00	92	73062	0.82 UG/L	88
54) Bromobenzene	15.58	77	202748	0.82 UG/L #	51
55) 1,3,5-Trimethylbenzene	16.55	105	385032	0.79 UG/L	100
56) 2-Chlorotoluene	16.17	126	88714m	0.79 UG/L	100
57) 4-Chlorotoluene	16.47	126	83773	0.81 UG/L	100
58) t-Butylbenzene	17.38	119	396261	0.76 UG/L	100
59) 1,2,4-Trimethylbenzene	17.52	105	353950	0.78 UG/L	100
60) sec-Butylbenzene	17.98	105	602711	0.79 UG/L	100
61) p-Isopropyltoluene	18.44	119	449505	0.75 UG/L	100
62) 1,3-Dichlorobenzene	18.16	146	158761m	0.81 UG/L	100
63) 1,4-Dichlorobenzene	18.43	146	153994	0.84 UG/L	100
64) n-Butylbenzene	19.57	92	289734	0.79 UG/L	97
65) 1,2-Dichlorobenzene	19.42	146	112048	0.80 UG/L	100
66) 1,2-Dibromochloropropane	21.57	157	5017m	0.61 UG/L	100
67) 1,2,4-Trichlorobenzene	23.94	180	83774	0.73 UG/L	100
68) Hexachlorobutadiene	24.49	225	113179	0.59 UG/L	100
69) Naphthalene	24.53	128	53865	0.70 UG/L	100
70) 1,2,3-Trichlorobenzene	25.12	180	59799	0.76 UG/L	100

(#) = qualifier out of range (m) = manual integration

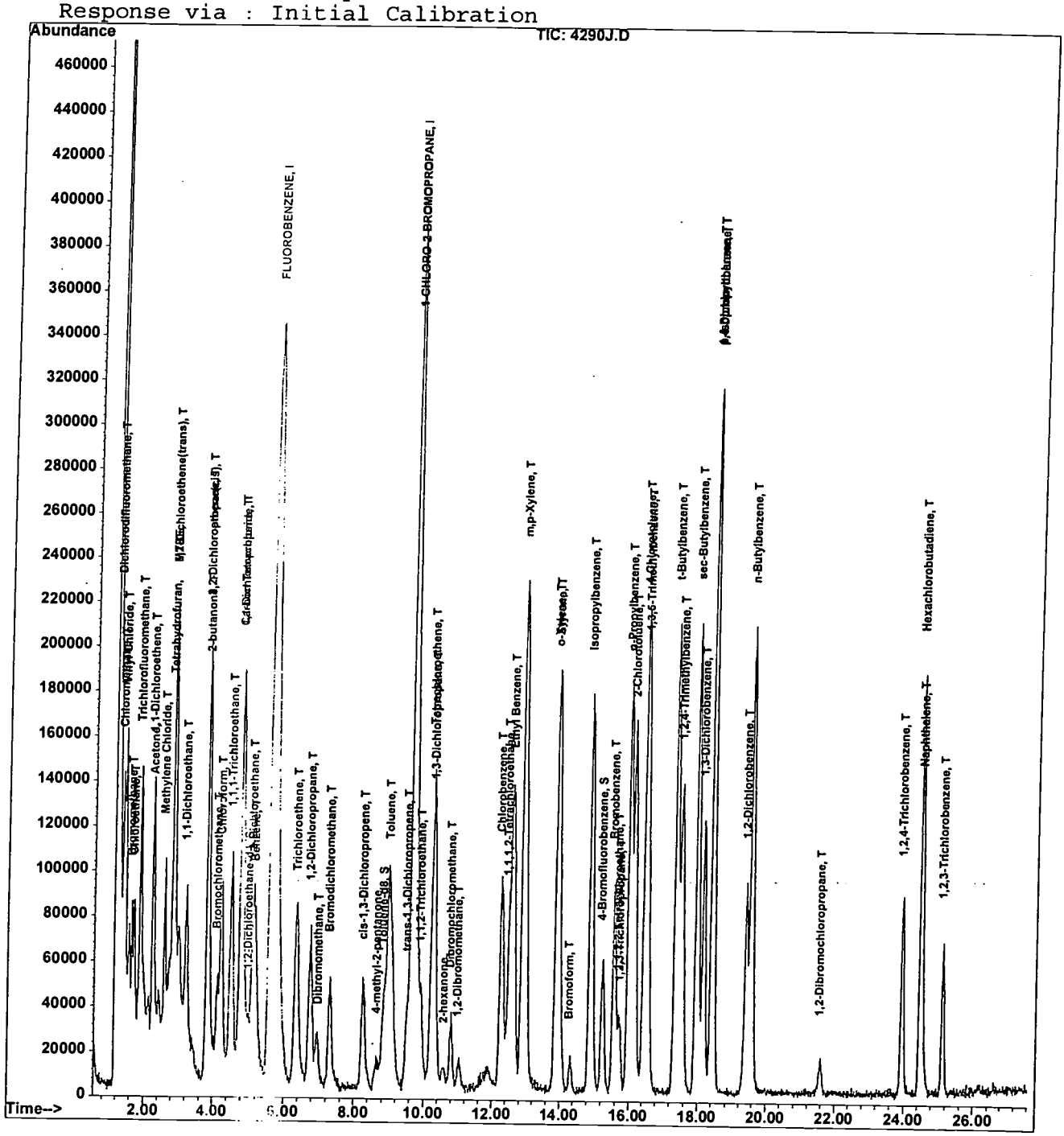
Quantitation Report

Data File : C:\HPCHEM\DATA\J081501\4290J.D
Acq On : 15 Aug 01 7:58
Sample : DW STD01
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:42 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4291J.D
Acq On : 15 Aug 01 8:30
Sample : DW STD05
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:31 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.67	96	2025348	10.00 UG/L	0.08
22) 1-CHLORO-2-BROMOPROPANE	9.69	77	939695	10.00 UG/L	0.07
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	4.99	65	199034	2.14 UG/L	0.02
Spiked Amount 5.000			Recovery	= 42.80%	
33) Toluene-d8	8.88	98	858114m	2.37 UG/L	0.05
Spiked Amount 5.000			Recovery	= 47.40%	
51) 4-Bromofluorobenzene	15.27	95	477030	2.34 UG/L	0.05
Spiked Amount 5.000			Recovery	= 46.80%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	776109	4.97 UG/L	100
3) Chloromethane	1.39	50	532205	6.20 UG/L	100
4) Vinyl Chloride	1.45	62	503879	5.81 UG/L	97
5) Bromomethane	1.66	94	300959	4.22 UG/L	95
6) Chloroethane	1.72	64	294913	5.18 UG/L	95
7) Trichlorofluoromethane	1.90	101	1234362	4.30 UG/L	94
8) 1,1-Dichloroethene	2.26	96	472327	4.75 UG/L #	48
9) Acetone	2.27	43	62878	12.18 UG/L #	100
10) Methylene Chloride	2.61	84	298818	4.57 UG/L #	71
11) 1,2-Dichloroethene(trans)	2.85	96	507207	4.82 UG/L #	56
12) 1,1-Dichloroethane	3.24	63	1031400	4.53 UG/L	100
13) MTBE	2.86	73	881604	9.65 UG/L	100
14) 2,2-Dichloropropane	3.85	77	1350588	4.75 UG/L	100
15) 2-butanone	3.87	43	100249	11.38 UG/L #	100
16) 1,2-Dichloroethene(cis)	3.85	96	531003	5.19 UG/L #	31
17) Chloroform	4.25	83	1096227	4.49 UG/L	96
18) Tetrahydrofuran	2.86	42	57401	11.73 UG/L	100
19) Bromochloromethane	4.13	128	153283	4.75 UG/L #	1
20) 1,1,1-Trichloroethane	4.53	97	1366433	4.46 UG/L	98
23) 1,1-Dichloropropene	4.80	110	278943	4.49 UG/L	100
24) Carbon Tetrachloride	4.79	117	1075066	4.00 UG/L	94
25) 1,2-Dichloroethane	5.12	62	455277	4.61 UG/L	96
26) Benzene	5.18	78	1756543	4.91 UG/L	100
27) Trichloroethene	6.35	130	614996	4.52 UG/L	99
28) 1,2-Dichloropropane	6.78	76	259433m	4.78 UG/L	100
29) Bromodichloromethane	7.32	83	769349	4.83 UG/L	100
30) Dibromomethane	6.98	93	176698	4.64 UG/L	97
31) cis-1,3-Dichloropropene	8.28	75	642771	5.00 UG/L	100
32) 4-methyl-2-pentanone	8.65	43	332688	10.02 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4291J.D
Acq On : 15 Aug 01 8:30
Sample : DW STD05
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:31 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Toluene	9.01	91	2012327m	4.85 UG/L	100
35) 2-hexanone	10.58	43	209242	10.86 UG/L #	100
36) trans-1,3-Dichloropropene	9.51	75	447049	4.71 UG/L	100
37) 1,1,2-Trichloroethane	9.92	97	215344	5.03 UG/L	100
38) 1,3-Dichloropropane	10.30	76	418173	4.95 UG/L	100
39) Tetrachloroethene	10.28	166	809521	4.36 UG/L	100
40) Dibromochloromethane	10.81	129	323424	4.24 UG/L	100
41) 1,2-Dibromomethane	11.03	107	250049	4.64 UG/L	96
42) Chlorobenzene	12.27	112	1153751	4.70 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.49	131	445370	4.33 UG/L	100
44) Ethyl Benzene	12.61	106	721695m	4.64 UG/L	1
45) m,p-Xylene	12.94	106	1859477	9.70 UG/L	80
46) o-Xylene	13.92	106	827499	4.98 UG/L	83
47) Styrene	13.97	104	1166683	4.83 UG/L #	54
48) Bromoform	14.34	173	152592	3.97 UG/L	97
49) Isopropylbenzene	14.91	105	2989815	4.75 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.70	83	233075	4.91 UG/L	96
52) 1,2,3-Trichloropropane	15.76	75	188188m	5.05 UG/L	62
53) n-Propylbenzene	16.01	92	423436	4.87 UG/L	100
54) Bromobenzene	15.59	77	1173839	4.86 UG/L #	76
55) 1,3,5-Trimethylbenzene	16.55	105	2262776	4.72 UG/L	100
56) 2-Chlorotoluene	16.16	126	529399	4.80 UG/L	100
57) 4-Chlorotoluene	16.46	126	490271	4.84 UG/L	100
58) t-Butylbenzene	17.38	119	2360479	4.64 UG/L	100
59) 1,2,4-Trimethylbenzene	17.52	105	2110579	4.77 UG/L	100
60) sec-Butylbenzene	17.99	105	3598987	4.83 UG/L	100
61) p-Isopropyltoluene	18.43	119	2718610	4.62 UG/L	100
62) 1,3-Dichlorobenzene	18.17	146	901080	4.69 UG/L	100
63) 1,4-Dichlorobenzene	18.42	146	848940	4.74 UG/L	100
64) n-Butylbenzene	19.56	92	1757339	4.87 UG/L	96
65) 1,2-Dichlorobenzene	19.43	146	676280	4.93 UG/L	100
66) 1,2-Dibromochloropropane	21.61	157	33672	4.18 UG/L	100
67) 1,2,4-Trichlorobenzene	23.95	180	505348	4.48 UG/L	100
68) Hexachlorobutadiene	24.49	225	777656	4.14 UG/L	100
69) Naphthalene	24.52	128	334486	4.41 UG/L	100
70) 1,2,3-Trichlorobenzene	25.12	180	367771	4.75 UG/L	100

(#) = qualifier out of range (m) = manual integration

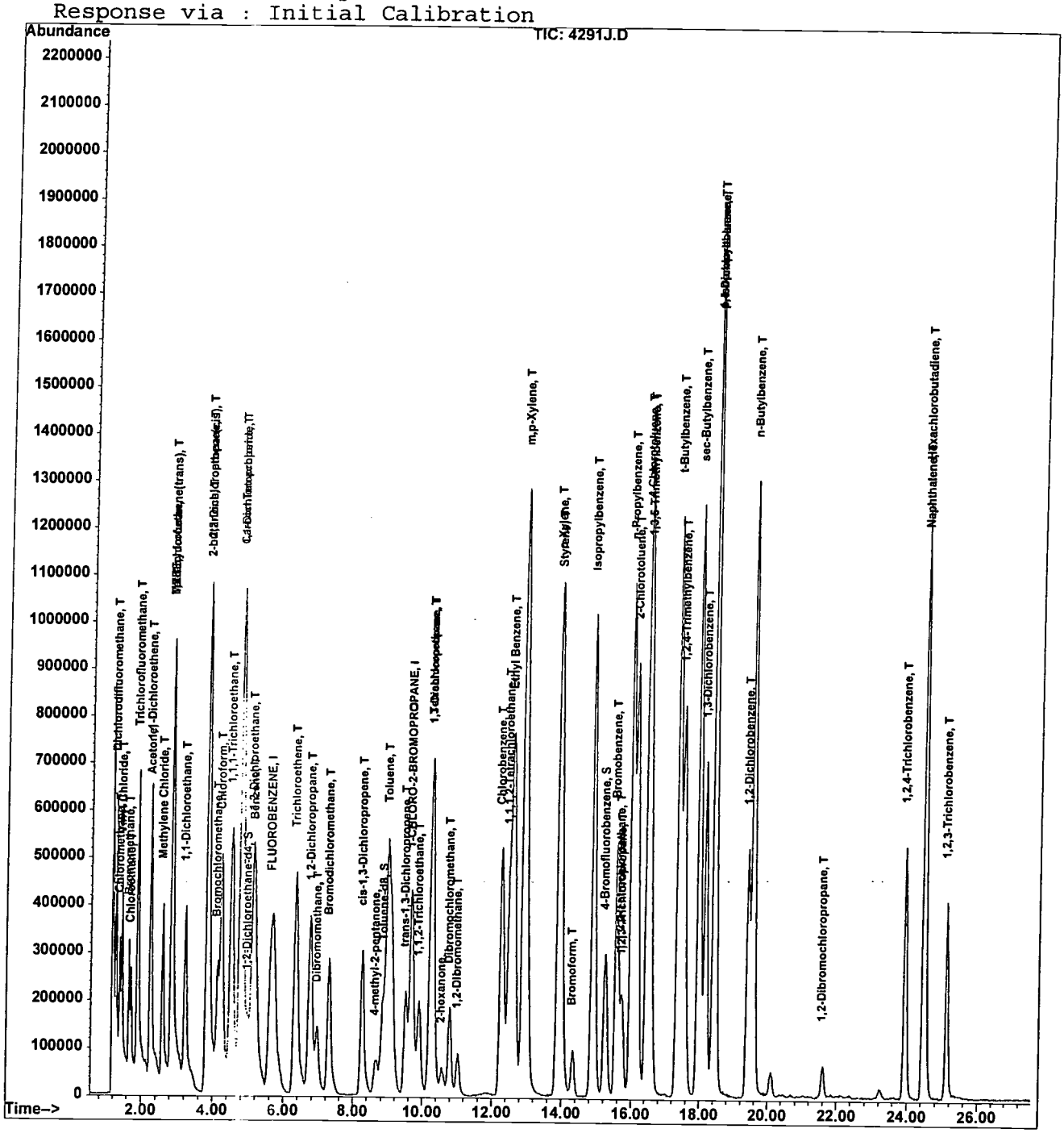
Quantitation Report

Data File : C:\HPCHEM\DATA\J081501\4291J.D
Acq On : 15 Aug 01 8:30
Sample : DW STD05
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:31 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4292J.D
Acq On : 15 Aug 01 9:03
Sample : DW STD010
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:33 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.66	96	2029527	10.00 UG/L	0.08
22) 1-CHLORO-2-BROMOPROPANE	9.67	77	974048	10.00 UG/L	0.06
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	4.99	65	430381	4.63 UG/L	0.02
Spiked Amount 5.000			Recovery	= 92.60%	
33) Toluene-d8	8.88	98	1711414	4.55 UG/L	0.05
Spiked Amount 5.000			Recovery	= 91.00%	
51) 4-Bromofluorobenzene	15.26	95	946422	4.48 UG/L	0.04
Spiked Amount 5.000			Recovery	= 89.60%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	1676684	10.72 UG/L	100
3) Chloromethane	1.39	50	1071638	12.46 UG/L	100
4) Vinyl Chloride	1.45	62	1051386	12.09 UG/L	99
5) Bromomethane	1.66	94	762661	10.67 UG/L	92
6) Chloroethane	1.73	64	582006	10.21 UG/L	96
7) Trichlorofluoromethane	1.89	101	2655258	9.24 UG/L	93
8) 1,1-Dichloroethene	2.25	96	1071702	10.76 UG/L #	61
9) Acetone	2.27	43	88009	17.01 UG/L #	100
10) Methylene Chloride	2.60	84	645989	9.87 UG/L	77
11) 1,2-Dichloroethene(trans)	2.85	96	1123113	10.65 UG/L #	66
12) 1,1-Dichloroethane	3.23	63	2335956	10.23 UG/L	100
13) MTBE	2.86	73	1903643	20.79 UG/L	100
14) 2,2-Dichloropropane	3.85	77	2743178	9.63 UG/L	100
15) 2-butanone	3.87	43	197726	22.40 UG/L #	100
16) 1,2-Dichloroethene(cis)	3.85	96	1000370	9.75 UG/L #	26
17) Chloroform	4.24	83	2362536	9.66 UG/L	100
18) Tetrahydrofuran	2.85	42	79273	16.16 UG/L	100
19) Bromochloromethane	4.15	128	303769	9.39 UG/L #	1
20) 1,1,1-Trichloroethane	4.52	97	2804688	9.14 UG/L	96
23) 1,1-Dichloropropene	4.80	110	572062	8.88 UG/L	100
24) Carbon Tetrachloride	4.77	117	2433991	8.75 UG/L	98
25) 1,2-Dichloroethane	5.11	62	950210	9.29 UG/L	100
26) Benzene	5.13	78	3697380	9.98 UG/L	100
27) Trichloroethene	6.32	130	1287699	9.14 UG/L	100
28) 1,2-Dichloropropane	6.73	76	523682	9.31 UG/L	100
29) Bromodichloromethane	7.32	83	1615875	9.78 UG/L	99
30) Dibromomethane	6.95	93	387813	9.82 UG/L	97
31) cis-1,3-Dichloropropene	8.26	75	1365622	10.24 UG/L	100
32) 4-methyl-2-pentanone	8.66	43	723695	21.03 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4292J.D
Acq On : 15 Aug 01 9:03
Sample : DW STD010
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:33 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Toluene	9.02	91	4185319	9.74 UG/L	100
35) 2-hexanone	10.57	43	443810	22.22 UG/L #	100
36) trans-1,3-Dichloropropene	9.50	75	947517	9.62 UG/L	100
37) 1,1,2-Trichloroethane	9.91	97	447295	10.08 UG/L	95
38) 1,3-Dichloropropane	10.27	76	882941	10.09 UG/L	100
39) Tetrachloroethene	10.25	166	1697384	8.82 UG/L	99
40) Dibromochloromethane	10.80	129	731613	9.25 UG/L	100
41) 1,2-Dibromomethane	11.03	107	526622	9.42 UG/L	99
42) Chlorobenzene	12.27	112	2412030	9.48 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.50	131	949161	8.90 UG/L	100
44) Ethyl Benzene	12.61	106	1522681	9.45 UG/L	80
45) m,p-Xylene	12.94	106	3802273	19.14 UG/L	79
46) o-Xylene	13.93	106	1690869	9.82 UG/L	81
47) Styrene	13.96	104	2432650	9.71 UG/L #	54
48) Bromoform	14.34	173	350976	8.80 UG/L	96
49) Isopropylbenzene	14.91	105	6223610	9.55 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.71	83	506172	10.28 UG/L	94
52) 1,2,3-Trichloropropane	15.76	75	407754m	10.55 UG/L	71
53) n-Propylbenzene	16.02	92	940113	10.44 UG/L	94
54) Bromobenzene	15.58	77	2432191	9.72 UG/L #	77
55) 1,3,5-Trimethylbenzene	16.55	105	4638940	9.34 UG/L	100
56) 2-Chlorotoluene	16.16	126	1094992	9.58 UG/L	100
57) 4-Chlorotoluene	16.47	126	1036815	9.88 UG/L	100
58) t-Butylbenzene	17.37	119	4893817	9.27 UG/L	100
59) 1,2,4-Trimethylbenzene	17.53	105	4371879	9.54 UG/L	100
60) sec-Butylbenzene	17.98	105	7516151	9.74 UG/L	100
61) p-Isopropyltoluene	18.44	119	5630561	9.23 UG/L	100
62) 1,3-Dichlorobenzene	18.18	146	1903465	9.56 UG/L	100
63) 1,4-Dichlorobenzene	18.43	146	1852731	9.98 UG/L	100
64) n-Butylbenzene	19.58	92	3667737	9.80 UG/L	95
65) 1,2-Dichlorobenzene	19.42	146	1416681	9.96 UG/L	100
66) 1,2-Dibromochloropropane	21.61	157	81319	9.73 UG/L	100
67) 1,2,4-Trichlorobenzene	23.94	180	1100884	9.42 UG/L	100
68) Hexachlorobutadiene	24.48	225	1672253	8.59 UG/L	100
69) Naphthalene	24.53	128	689920	8.78 UG/L	100
70) 1,2,3-Trichlorobenzene	25.13	180	770891	9.60 UG/L	100

(#) = qualifier out of range (m) = manual integration

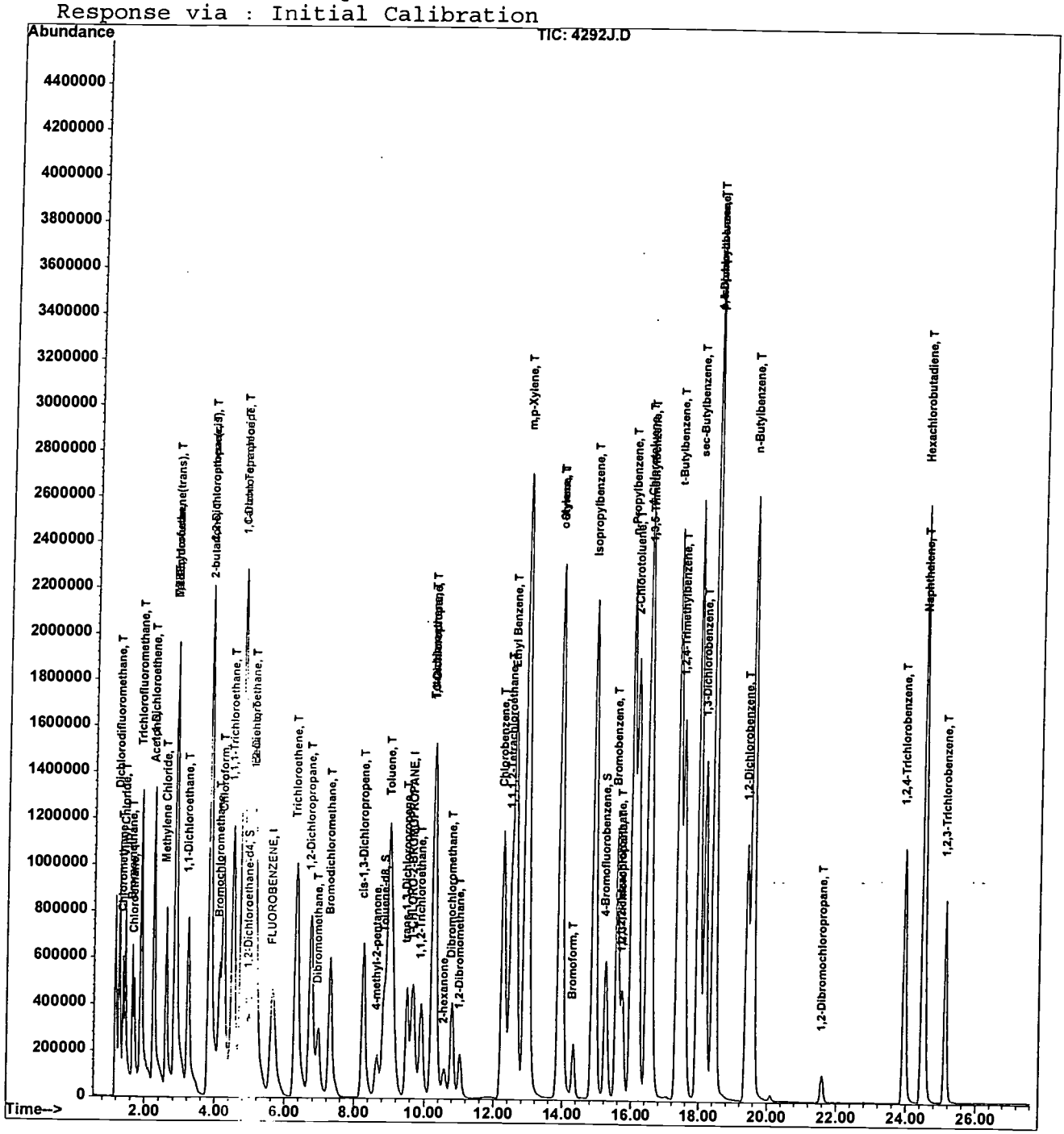
Quantitation Report

Data File : C:\HPCHEM\DATA\J081501\4292J.D
Acq On : 15 Aug 01 9:03
Sample : DW STD010
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:33 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4293J.D
Acq On : 15 Aug 01 9:35
Sample : DW STD020
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:34 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.66	96	2030629	10.00 UG/L	0.08
22) 1-CHLORO-2-BROMOPROPANE	9.68	77	1006647	10.00 UG/L	0.06
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.01	65	903729	9.71 UG/L	0.04
Spiked Amount 5.000			Recovery	= 194.20%	
33) Toluene-d8	8.88	98	3550069	9.14 UG/L	0.05
Spiked Amount 5.000			Recovery	= 182.80%	
51) 4-Bromofluorobenzene	15.25	95	1923381	8.81 UG/L	0.04
Spiked Amount 5.000			Recovery	= 176.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	3285159	20.99 UG/L	100
3) Chloromethane	1.39	50	2114755	24.58 UG/L	100
4) Vinyl Chloride	1.46	62	2105670	24.20 UG/L	98
5) Bromomethane	1.66	94	1475129	20.62 UG/L	93
6) Chloroethane	1.72	64	1085010	19.02 UG/L	98
7) Trichlorofluoromethane	1.90	101	5171101	17.98 UG/L	92
8) 1,1-Dichloroethene	2.25	96	2054935	20.62 UG/L #	44
9) Acetone	2.27	43	245168	47.37 UG/L #	100
10) Methylene Chloride	2.61	84	1455283	22.22 UG/L	84
11) 1,2-Dichloroethene(trans)	2.85	96	2317203	21.96 UG/L #	67
12) 1,1-Dichloroethane	3.23	63	4906483	21.48 UG/L	100
13) MTBE	2.87	73	3607689	39.37 UG/L	100
14) 2,2-Dichloropropane	3.86	77	5584764	19.59 UG/L	100
15) 2-butanone	3.88	43	443269	50.20 UG/L #	100
16) 1,2-Dichloroethene(cis)	3.86	96	2264463	22.06 UG/L #	35
17) Chloroform	4.24	83	4893064	20.00 UG/L	99
18) Tetrahydrofuran	2.87	42	184450	37.59 UG/L	100
19) Bromochloromethane	4.14	128	651349	20.11 UG/L #	1
20) 1,1,1-Trichloroethane	4.52	97	5717328	18.62 UG/L	96
23) 1,1-Dichloropropene	4.80	110	1223821	18.37 UG/L	100
24) Carbon Tetrachloride	4.79	117	4904080	17.05 UG/L	98
25) 1,2-Dichloroethane	5.12	62	2042678	19.32 UG/L	93
26) Benzene	5.16	78	7509357	19.60 UG/L	100
27) Trichloroethene	6.35	130	2659098	18.26 UG/L	96
28) 1,2-Dichloropropane	6.75	76	1059141	18.22 UG/L	100
29) Bromodichloromethane	7.30	83	3306599	19.37 UG/L	99
30) Dibromomethane	6.96	93	858845	21.04 UG/L	90
31) cis-1,3-Dichloropropene	8.27	75	2783451	20.20 UG/L	100
32) 4-methyl-2-pentanone	8.67	43	1486140	41.78 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4293J.D
Acq On : 15 Aug 01 9:35
Sample : DW STD020
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:34 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Toluene	9.02	91	8512731	19.16 UG/L	100
35) 2-hexanone	10.56	43	898416	43.53 UG/L #	100
36) trans-1,3-Dichloropropene	9.51	75	1907312	18.74 UG/L	100
37) 1,1,2-Trichloroethane	9.91	97	912896	19.91 UG/L	96
38) 1,3-Dichloropropane	10.29	76	1771655	19.58 UG/L	100
39) Tetrachloroethene	10.27	166	3488118	17.54 UG/L	99
40) Dibromochloromethane	10.80	129	1479601	18.10 UG/L	100
41) 1,2-Dibromomethane	11.03	107	1075246	18.61 UG/L	98
42) Chlorobenzene	12.29	112	4893733	18.60 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.50	131	1913244	17.37 UG/L	100
44) Ethyl Benzene	12.63	106	3108492	18.67 UG/L	81
45) m,p-Xylene	12.95	106	7761945	37.80 UG/L	81
46) o-Xylene	13.93	106	3396470	19.09 UG/L	81
47) Styrene	13.96	104	4882042	18.85 UG/L #	55
48) Bromoform	14.33	173	726604	17.63 UG/L	96
49) Isopropylbenzene	14.91	105	12431594	18.45 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.72	83	997831	19.61 UG/L	98
52) 1,2,3-Trichloropropane	15.76	75	793836m	19.88 UG/L	71
53) n-Propylbenzene	16.02	92	1813744	19.49 UG/L	94
54) Bromobenzene	15.59	77	5123320	19.81 UG/L #	75
55) 1,3,5-Trimethylbenzene	16.55	105	9153263	17.84 UG/L	100
56) 2-Chlorotoluene	16.17	126	2174234	18.41 UG/L	100
57) 4-Chlorotoluene	16.47	126	2053427	18.94 UG/L	100
58) t-Butylbenzene	17.37	119	9639743	17.68 UG/L	100
59) 1,2,4-Trimethylbenzene	17.53	105	8479428	17.90 UG/L	100
60) sec-Butylbenzene	17.98	105	14619397	18.33 UG/L	100
61) p-Isopropyltoluene	18.44	119	10895538	17.29 UG/L	100
62) 1,3-Dichlorobenzene	18.18	146	3729660	18.12 UG/L	100
63) 1,4-Dichlorobenzene	18.44	146	3555990	18.53 UG/L	100
64) n-Butylbenzene	19.58	92	7112129	18.40 UG/L	95
65) 1,2-Dichlorobenzene	19.43	146	2745236	18.68 UG/L	100
66) 1,2-Dibromochloropropane	21.61	157	165991	19.23 UG/L	100
67) 1,2,4-Trichlorobenzene	23.95	180	2120080	17.55 UG/L	100
68) Hexachlorobutadiene	24.49	225	3133198	15.57 UG/L	100
69) Naphthalene	24.52	128	1354504	16.68 UG/L	100
70) 1,2,3-Trichlorobenzene	25.13	180	1505829	18.14 UG/L	100

(#) = qualifier out of range (m) = manual integration

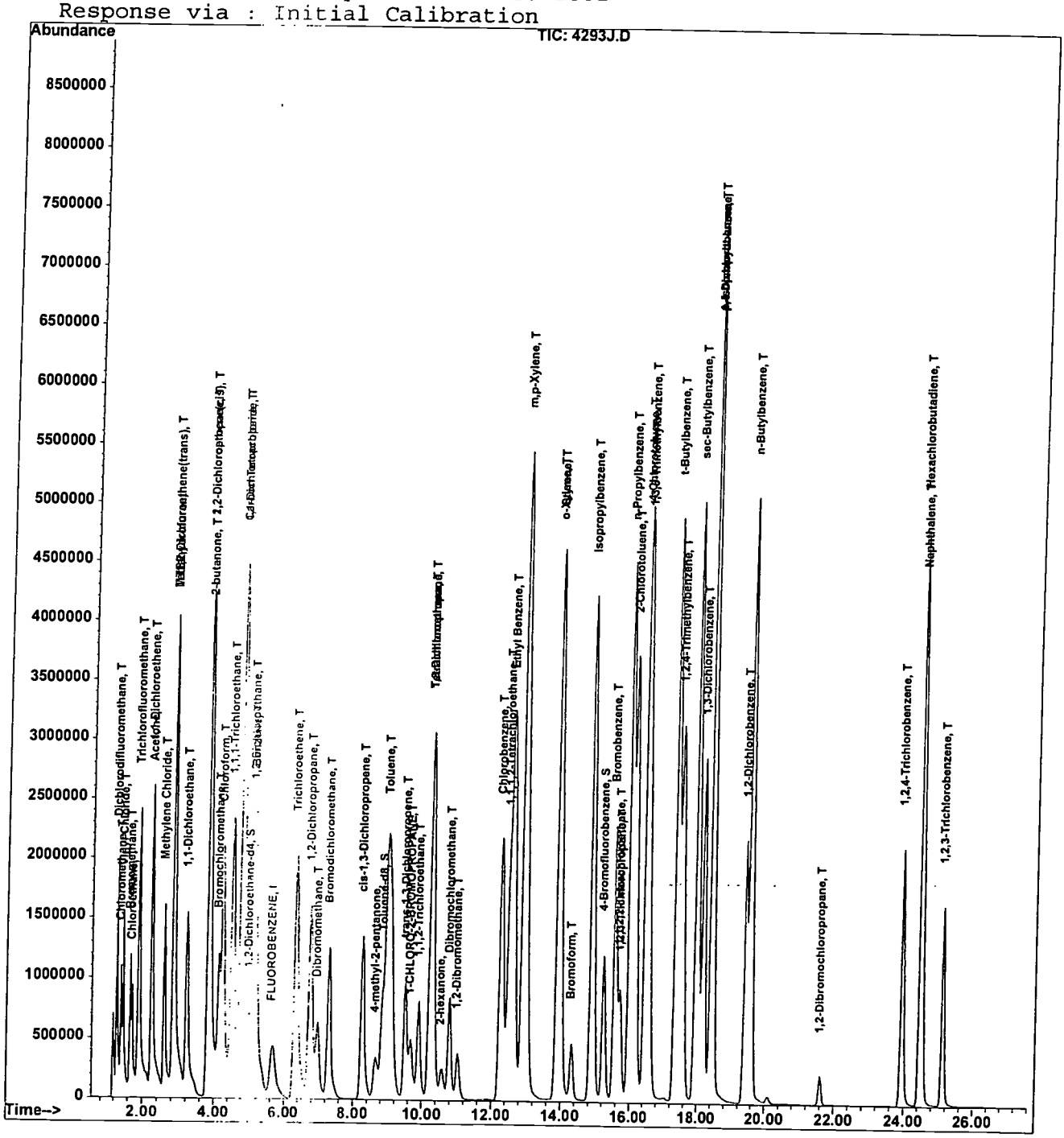
Quantitation Report

Data File : C:\HPCHEM\DATA\J081501\4293J.D
Acq On : 15 Aug 01 9:35
Sample : DW STD020
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:34 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



4293J.D DWJ.M Wed Aug 15 10:45:55 2001 RPT1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4294J.D
Acq On : 15 Aug 01 10:07
Sample : DW STD040
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:37 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	5.70	96	1976933	10.00	UG/L	0.11
22) 1-CHLORO-2-BROMOPROPANE	9.69	77	948801	10.00	UG/L	0.07
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	4.99	65	1927582	21.27	UG/L	0.02
Spiked Amount 5.000			Recovery	=	425.40%	
33) Toluene-d8	8.94	98	7572968	20.69	UG/L	0.11
Spiked Amount 5.000			Recovery	=	413.80%	
51) 4-Bromofluorobenzene	15.26	95	3917916	19.04	UG/L	0.05
Spiked Amount 5.000			Recovery	=	380.80%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.27	85	6477659	42.50	UG/L	100
3) Chloromethane	1.39	50	4245693	50.68	UG/L	100
4) Vinyl Chloride	1.45	62	4280810	50.53	UG/L	99
5) Bromomethane	1.65	94	2769257	39.77	UG/L	99
6) Chloroethane	1.71	64	2249142	40.50	UG/L	88
7) Trichlorofluoromethane	1.89	101	10138885	36.21	UG/L	86
8) 1,1-Dichloroethene	2.25	96	4503222	46.42	UG/L #	54
9) Acetone	2.29	43	416049	82.58	UG/L #	100
10) Methylene Chloride	2.61	84	3084750	48.37	UG/L	84
11) 1,2-Dichloroethene(trans)	2.85	96	4964514	48.33	UG/L #	69
12) 1,1-Dichloroethane	3.23	63	10487930	47.16	UG/L	100
13) MTBE	2.86	73	8048827	90.22	UG/L	100
14) 2,2-Dichloropropane	3.86	77	11541033	41.59	UG/L	100
15) 2-butanone	3.89	43	995204	115.76	UG/L #	100
16) 1,2-Dichloroethene(cis)	3.84	96	4840682	48.44	UG/L #	36
17) Chloroform	4.25	83	10375718	43.56	UG/L	98
18) Tetrahydrofuran	2.86	42	376656	78.84	UG/L	100
19) Bromochloromethane	4.14	128	1539564	48.84	UG/L #	12
20) 1,1,1-Trichloroethane	4.53	97	11789215	39.43	UG/L	97
23) 1,1-Dichloropropene	4.81	110	2538698	40.44	UG/L	100
24) Carbon Tetrachloride	4.79	117	10284237	37.93	UG/L	99
25) 1,2-Dichloroethane	5.12	62	4180048	41.95	UG/L	96
26) Benzene	5.17	78	16311803	45.18	UG/L	100
27) Trichloroethene	6.36	130	5666910	41.29	UG/L	99
28) 1,2-Dichloropropane	6.77	76	2212313	40.38	UG/L	100
29) Bromodichloromethane	7.31	83	7052214	43.82	UG/L	99
30) Dibromomethane	6.97	93	1814684	47.17	UG/L	91
31) cis-1,3-Dichloropropene	8.28	75	5996297	46.17	UG/L	100
32) 4-methyl-2-pentanone	8.67	43	3158647	94.21	UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J081501\4294J.D
Acq On : 15 Aug 01 10:07
Sample : DW STD040
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:37 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Toluene	9.07	91	18144801	43.34 UG/L	100
35) 2-hexanone	10.58	43	1967079	101.12 UG/L #	100
36) trans-1,3-Dichloropropene	9.52	75	4079025	42.53 UG/L	100
37) 1,1,2-Trichloroethane	9.92	97	1929952	44.66 UG/L	98
38) 1,3-Dichloropropane	10.29	76	3712722	43.54 UG/L	100
39) Tetrachloroethene	10.29	166	7369585	39.32 UG/L	99
40) Dibromochloromethane	10.81	129	3123035	40.54 UG/L	100
41) 1,2-Dibromomethane	11.04	107	2274931	41.77 UG/L	97
42) Chlorobenzene	12.30	112	10391544	41.91 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.51	131	4006119	38.58 UG/L	100
44) Ethyl Benzene	12.64	106	6404599	40.82 UG/L	80
45) m,p-Xylene	12.96	106	15830672	81.80 UG/L	77
46) o-Xylene	13.94	106	6820690	40.68 UG/L	80
47) Styrene	13.97	104	10039049	41.13 UG/L #	56
48) Bromoform	14.34	173	1523171	39.21 UG/L	98
49) Isopropylbenzene	14.92	105	25218371	39.71 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.71	83	2070685	43.17 UG/L	96
52) 1,2,3-Trichloropropane	15.77	75	1615396m	42.92 UG/L	76
53) n-Propylbenzene	16.01	92	3649243	41.60 UG/L	98
54) Bromobenzene	15.59	77	9901593	40.62 UG/L #	78
55) 1,3,5-Trimethylbenzene	16.55	105	17923150	37.05 UG/L	100
56) 2-Chlorotoluene	16.18	126	4326664	38.87 UG/L	100
57) 4-Chlorotoluene	16.48	126	4025276	39.38 UG/L	100
58) t-Butylbenzene	17.38	119	18969826	36.91 UG/L	100
59) 1,2,4-Trimethylbenzene	17.54	105	16505801	36.96 UG/L	100
60) sec-Butylbenzene	17.99	105	28971043	38.54 UG/L	100
61) p-Isopropyltoluene	18.44	119	21096296	35.51 UG/L	100
62) 1,3-Dichlorobenzene	18.18	146	7194168	37.08 UG/L	100
63) 1,4-Dichlorobenzene	18.44	146	6838864	37.82 UG/L	100
64) n-Butylbenzene	19.57	92	13713436	37.64 UG/L	94
65) 1,2-Dichlorobenzene	19.43	146	5338086	38.53 UG/L	100
66) 1,2-Dibromochloropropane	21.62	157	332067	40.81 UG/L	100
67) 1,2,4-Trichlorobenzene	23.95	180	3226788	28.34 UG/L	100
68) Hexachlorobutadiene	24.49	225	4422944	23.33 UG/L	100
69) Naphthalene	24.52	128	2618545	34.21 UG/L	100
70) 1,2,3-Trichlorobenzene	25.12	180	2196439	28.07 UG/L	100

(#) = qualifier out of range (m) = manual integration

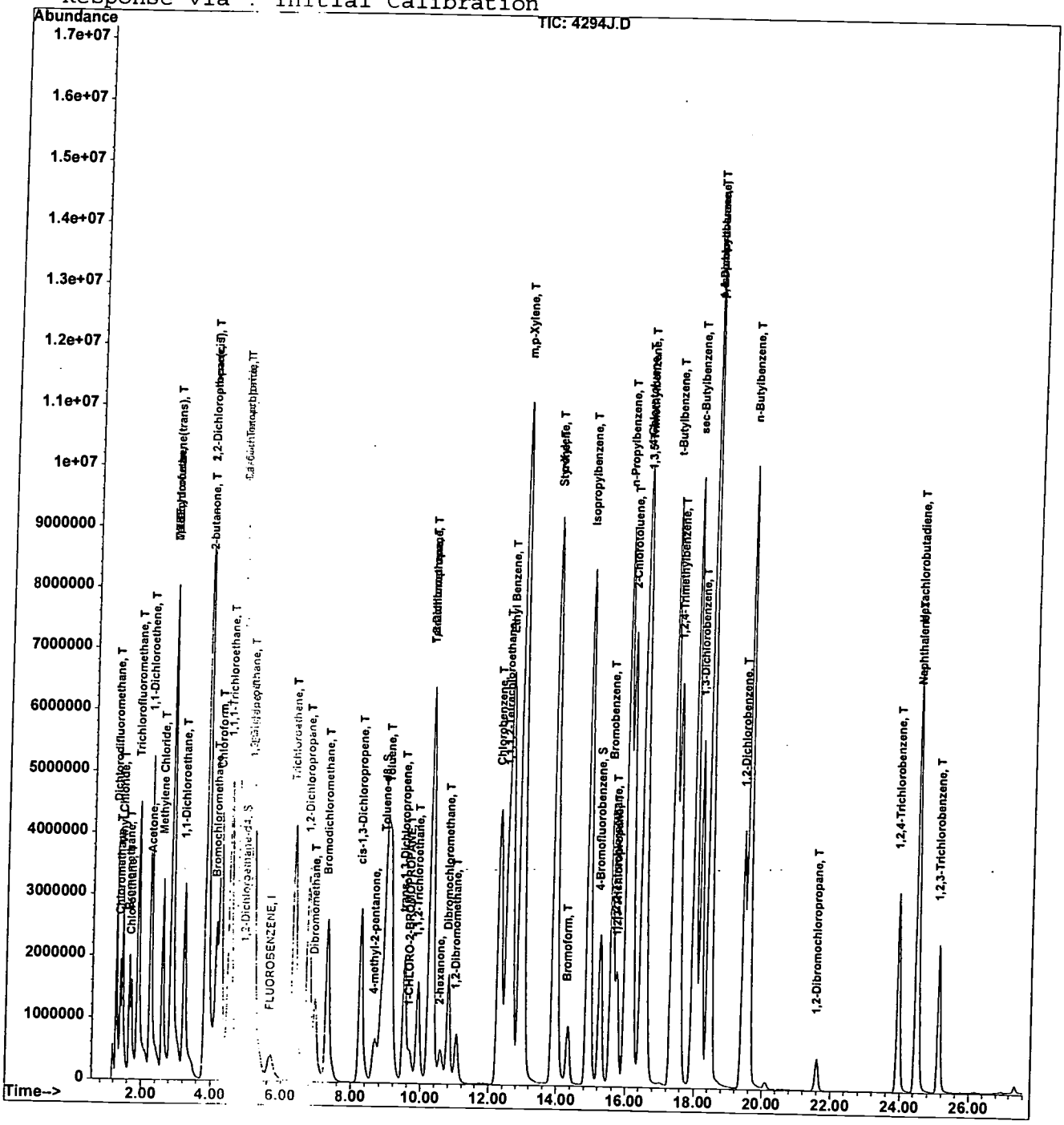
Quantitation Report

Data File : C:\HPCHEM\DATA\J081501\4294J.D
Acq On : 15 Aug 01 10:07
Sample : DW STD040
Misc : 8/15/01
MS Integration Params: rteint.p
Quant Time: Aug 15 10:37 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: 5049J.D BFB Injection Date: 09/28/01

Instrument ID: GCMS#9 BFB Injection Time: 06:22

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	31.6
75	30.0 - 66.0% of mass 95	57.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	55.6
175	4.0 - 9.0% of mass 174	3.6 (6.4)1
176	93.0 - 101.0% of mass 174	54.7 (98.4)1
177	5.0 - 9.0% of mass 176	3.6 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	DW STD010	5050J.D	09/28/01	06:40
02	DW BLANK01	DW BLANK	5051J.D	09/28/01	07:26
03	DI MS	DI MS	5052J.D	09/28/01	08:09
04	A566964	A566964	5053J.D	09/28/01	08:56
05	A566965	A566965	5054J.D	09/28/01	09:28
06	A566911	A566911	5055J.D	09/28/01	10:00
07	A567636	A567636	5056J.D	09/28/01	10:32
08	A567639	A567639	5057J.D	09/28/01	11:04
09	A567160	A567160	5058J.D	09/28/01	11:36
10	A567161	A567161	5059J.D	09/28/01	12:08
11	A567209	A567209	5060J.D	09/28/01	12:40
12	A567210	A567210	5061J.D	09/28/01	13:12
13	A567128	A567128 DK27547	5062J.D	09/28/01	13:44
14	A567529	A567529	5063J.D	09/28/01	14:16
15	A567530	A567530	5064J.D	09/28/01	14:48
16	HOLDING BLANK	HOLDING BLANK,H2O	5065J.D	09/28/01	15:20
17	HOLDING BLANK	HOLDING BLANK,H2O	5066J.D	09/28/01	15:52
18	HOLDING BLANK	HOLDING BLANK,MED	5067J.D	09/28/01	16:25

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 5050J.D Date Analyzed: 09/28/01

Instrument ID: GCMS#9 Time Analyzed: 06:40

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 AREA #	RT #	AREA #	RT #
	12 HOUR STD	1484257	5.63	694128	9.64		
	UPPER LIMIT	2968514	6.13	1388256	10.14		
	LOWER LIMIT	742129	5.13	347064	9.14		
	EPA SAMPLE NO.						
01	DW BLANK01	1564912	5.64	755476	9.64		
02	DI MS	1544653	5.62	791636	9.65		
03	A566964	1522035	5.64	710240	9.65		
04	A566965	1527558	5.65	717231	9.64		
05	A566911	1488676	5.61	720314	9.63		
06	A567636	1416902	5.62	686431	9.63		
07	A567639	1445877	5.66	674016	9.64		
08	A567160	1472605	5.63	680696	9.64		
09	A567161	1402666	5.65	667443	9.65		
10	A567209	1401547	5.66	644780	9.65		
11	A567210	1345400	5.66	606231	9.66		
12	A567128	1383792	5.67	641155	9.65		
13	A567529	1314961	5.63	619575	9.66		
14	A567530	1356228	5.66	627185	9.65		
15	HOLDING BL	1288505	5.67	623225	9.65		
16	HOLDING BL	1262768	5.65	593287	9.65		
17	HOLDING BL	1305513	5.66	618157	9.64		

IS1 = FLUOROBENZENE

IS2 = 1-CHLORO-2-BROMOPROPANE

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Date Injected: 28-Sep-01 Instrument: GCMS#9

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	DW BLANK01	82	101	102	0
02	DI MS	94	92	93	0
03	A566964	86	104	101	0
04	A566965	87	102	105	0
05	A566911	88	99	98	0
06	A567636	92	101	101	0
07	A567639	86	103	104	0
08	A567160	80	102	103	0
09	A567161	80	103	105	0
10	A567209	83	102	99	0
11	A567210	86	105	105	0
12	A567128	89	103	103	0
13	A567529	81	101	103	0
14	A567530	80	103	104	0
15	HOLDING BLA	83	102	105	0
16	HOLDING BLA	84	102	106	0
17	HOLDING BLA	90	101	107	0

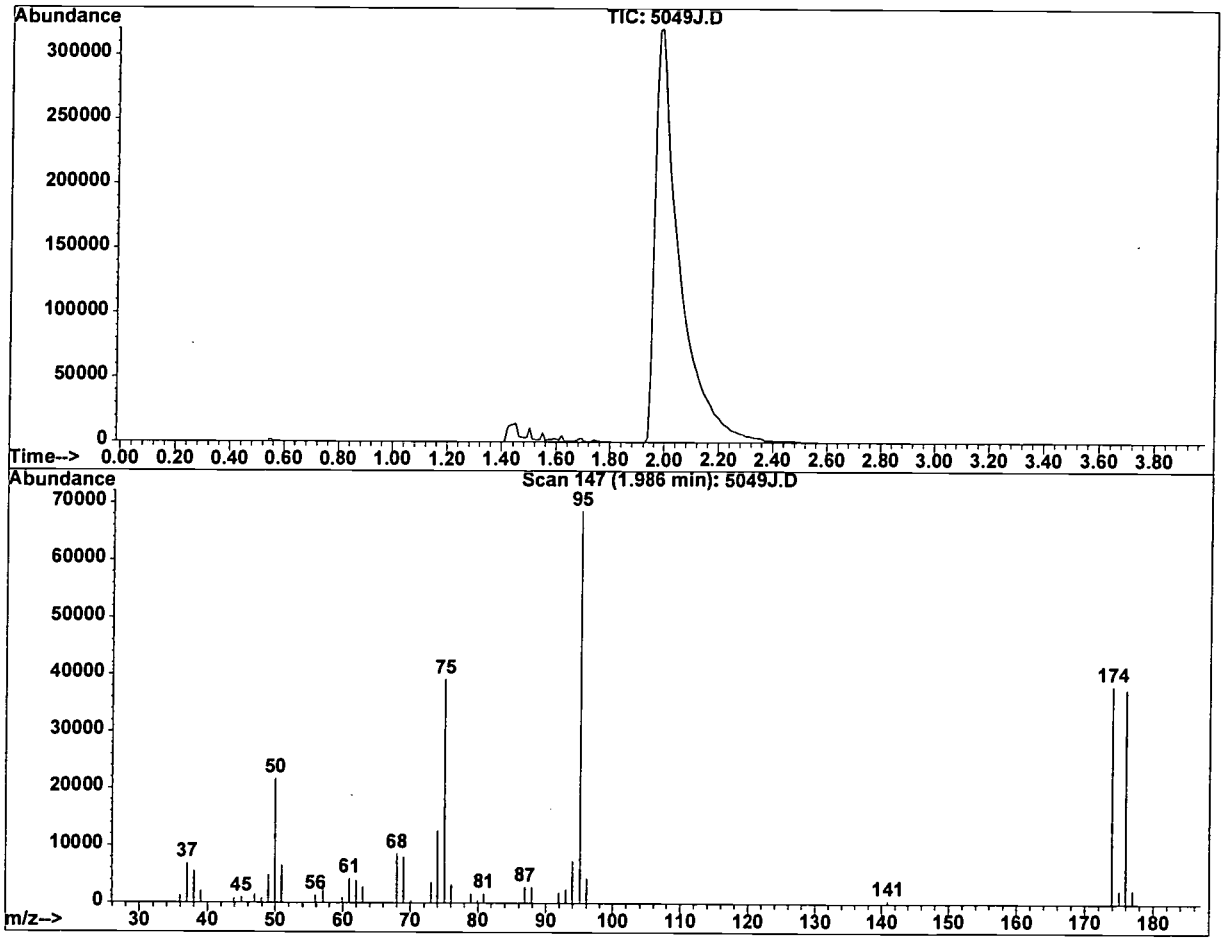
			QC LIMITS
SMC1	=	1,2-Dichloroethane-d4	(80-120)
SMC2	=	Toluene-d8	(80-120)
SMC3	=	4-Bromofluorobenzene	(80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

BFB

Data File : C:\HPCHEM\DATA\J092801\5049J.D
Acq On : 28 Sep 01 6:22
Sample : BFB TUNE CHECK
Misc : 9/28/01
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00



Spectrum Information: Scan 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.6	21696	PASS
75	95	30	80	57.0	39144	PASS
95	95	100	100	100.0	68680	PASS
96	95	5	9	6.4	4384	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	55.6	38184	PASS
175	174	5	9	6.4	2443	PASS
176	174	95	101	98.4	37592	PASS
177	176	5	9	6.6	2499	PASS

5049J.D DWJ.M Fri Sep 28 06:26:47 2001 RPT1

10/2/01

Scan 147 (1.986 min): 5049J.D
BFB TUNE CHECK

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1306	55.90	1377	75.05	39144	96.00	4384
36.95	6935	57.00	2630	76.05	3234	140.90	578
38.00	5498	59.95	927	78.95	1656	173.90	38184
39.00	2111	60.95	4268	79.95	501	175.00	2443
43.90	839	61.95	3964	80.85	1743	175.95	37592
45.00	1009	62.95	2813	86.90	2839	176.95	2499
46.95	1423	68.00	8661	87.90	2801		
47.95	785	69.00	8061	91.95	1946		
48.95	4906	70.10	560	92.95	2482		
49.95	21696	73.00	3646	93.95	7367		
50.95	6571	74.00	12636	95.05	68680		

Continuing Calibration Report

Data File : C:\HPCHEM\DATA\J092801\5050J.D
Acq On : 28 Sep 01 6:40
Sample : DW STD010
Misc : CALIBRATION CHECK 9/28/01
MS Integration Params: rteint.p

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Multiple Level Calibration

Q12866 82

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

cal 1 = 4290J.D cal 5 = 4291J.D cal 10 = 4292J.D
cal 20 = 4293J.D cal 40 = 4294J.D

		Compound	AvgRF	CCRF	%Dev
1	I	FLUOROBENZENE	1.00000	1.00000	0.0
2	T	Dichlorodifluoromethane	0.78540	0.63850	18.7
3	T	Chloromethane	0.51101	0.43466	14.9
4	T	Vinyl Chloride	0.50375	0.46197	8.3
5	T	Bromomethane	0.33688	0.37133	10.2
6	T	Chloroethane	0.29112	0.29147	0.1
7	T	Trichlorofluoromethane	1.25409	1.24300	0.9
8	T	1,1-Dichloroethene	0.50016	0.45590	8.8
9		Acetone	0.03998	0.02672	33.2#
10	T	Methylene Chloride	0.33295	0.30654	7.9
11	T	1,2-Dichloroethene(trans)	0.54228	0.50195	7.4
12	T	1,1-Dichloroethane	1.14768	1.04826	8.7
13		MTBE	0.45501	0.43004	5.5
14	T	2,2-Dichloropropane	1.35200	1.38849	2.7
15	T	2-butanone	0.05103	0.05008	1.9
16	T	1,2-Dichloroethene(cis)	0.52664	0.55446	5.3
17	T	Chloroform	1.16769	1.17960	1.0
18		Tetrahydrofuran	0.05355	0.02393	55.3#
19	T	Bromochloromethane	0.15501	0.13891	10.4
20	T	1,1,1-Trichloroethane	1.36672	1.41636	3.6
21	S	1,2-Dichloroethane-d4	0.43852	0.37923	13.5
22	I	1-CHLORO-2-BROMOPROPANE	1.00000	1.00000	0.0
23	T	1,1-Dichloropropene	0.58812	0.68550	16.6
24	T	Carbon Tetrachloride	2.40455	2.60473	8.3
25	T	1,2-Dichloroethane	0.99096	0.92608	6.5
26	T	Benzene	3.75265	4.10641	9.4
27	T	Trichloroethene	1.31536	1.41264	7.4
28	T	1,2-Dichloropropane	0.52101	0.51751	0.7
29	T	Bromodichloromethane	1.62698	1.64871	1.3
30	T	Dibromomethane	0.39808	0.42153	5.9
31	T	cis-1,3-Dichloropropene	1.37067	1.42590	4.0
32		4-methyl-2-pentanone	0.37048	0.37728	1.8
33	S	Toluene-d8	3.64932	3.69806	1.3
34	T	Toluene	4.24332	4.74735	11.9
35		2-hexanone	0.22525	0.23198	3.0
36	T	trans-1,3-Dichloropropene	0.97394	0.96877	0.5
37	T	1,1,2-Trichloroethane	0.44855	0.47192	5.2
38	T	1,3-Dichloropropane	0.87856	0.90328	2.8
39	T	Tetrachloroethene	1.72237	1.99850	16.0

(#) = Out of Range (Advisory for non CCC, SPCC)

Continuing Calibration Report

Data File : C:\HPCHEM\DATA\J092801\5050J.D
Acq On : 28 Sep 01 6:40
Sample : DW STD010
Misc : CALIBRATION CHECK 9/28/01
MS Integration Params: rteint.p

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

cal 1 = 4290J.D cal 5 = 4291J.D cal 10 = 4292J.D
cal 20 = 4293J.D cal 40 = 4294J.D

	Compound	AvgRF	CCRF	%Dev
40 T	Dibromochloromethane	0.70731	0.73523	3.9
41 T	1,2-Dibromomethane	0.52576	0.54123	2.9
42 T	Chlorobenzene	2.43069	2.67806	10.2
43 T	1,1,1,2-Tetrachloroethane	0.94726	1.00586	6.2
44 T	Ethyl Benzene	1.51819	1.71544	13.0
45 T	m,p-Xylene	1.93500	2.12470	9.8
46 T	o-Xylene	1.68446	1.88747	12.1
47 T	Styrene	2.40399	2.66538	10.9
48 T	Bromoform	0.33965	0.36067	6.2
49 T	Isopropylbenzene	6.20053	7.04383	13.6
50 T	1,1,2,2-Tetrachloroethane	0.49479	0.56397	14.0
51 S	4-Bromofluorobenzene	1.98588	2.00668	1.0
52 T	1,2,3-Trichloropropane	0.39092	0.43086	10.2
53 T	n-Propylbenzene	0.89796	1.02357	14.0
54 T	Bromobenzene	2.45216	2.63572	7.5
55 T	1,3,5-Trimethylbenzene	4.57157	5.21354	14.0
56 T	2-Chlorotoluene	1.07898	1.23823	14.8
57 T	4-Chlorotoluene	1.01220	1.12802	11.4
58 T	t-Butylbenzene	4.79237	5.55957	16.0
59 T	1,2,4-Trimethylbenzene	4.24557	4.73202	11.5
60 T	sec-Butylbenzene	7.30979	8.57705	17.3
61 T	p-Isopropyltoluene	5.44382	6.39289	17.4
62 T	1,3-Dichlorobenzene	1.85474	2.12312	14.5
63 T	1,4-Dichlorobenzene	1.77622	2.02543	14.0
64 T	n-Butylbenzene	3.53388	4.29823	21.6
65 T	1,2-Dichlorobenzene	1.36619	1.53107	12.1
66 T	1,2-Dibromochloropropane	0.07547	0.08247	9.3
67 T	1,2,4-Trichlorobenzene	0.99632	1.25944	26.4
68 T	Hexachlorobutadiene	1.45448	1.86351	28.1
69 T	Naphthalene	0.66880	0.81657	22.1
70 T	1,2,3-Trichlorobenzene	0.70474	0.90115	27.9

(#) = Out of Range SPCC's out = 0 CCC's out = 0

4292J.D DWJ.M Fri Sep 28 07:12:53 2001 RPT1
Average RPD= 10.81

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J092801\5050J.D
Acq On : 28 Sep 01 6:40
Sample : DW STD010
Misc : CALIBRATION CHECK 9/28/01
MS Integration Params: rteint.p
Quant Time: Sep 28 7:12 2001

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	5.63	96	1484257	10.00	UG/L	-0.08
22) 1-CHLORO-2-BROMOPROPANE	9.64	77	694128	10.00	UG/L	-0.06
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	4.97	65	281438	4.32	UG/L	-0.04
Spiked Amount 5.000			Recovery	=	86.40%	
33) Toluene-d8	8.84	98	1283464m	5.07	UG/L	0.00
Spiked Amount 5.000			Recovery	=	101.40%	
51) 4-Bromofluorobenzene	15.21	95	696448	5.05	UG/L	-0.02
Spiked Amount 5.000			Recovery	=	101.00%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.28	85	947698	8.13	UG/L	100
3) Chloromethane	1.39	50	645141	8.51	UG/L	100
4) Vinyl Chloride	1.45	62	685679	9.17	UG/L	99
5) Bromomethane	1.66	94	551146	11.02	UG/L	86
6) Chloroethane	1.71	64	432622	10.01	UG/L	97
7) Trichlorofluoromethane	1.89	101	1844926	9.91	UG/L	88
8) 1,1-Dichloroethene	2.24	96	676679	9.12	UG/L #	42
9) Acetone	2.26	43	79314	13.37	UG/L #	100
10) Methylene Chloride	2.60	84	454983	9.21	UG/L #	73
11) 1,2-Dichloroethene(trans)	2.84	96	745025	9.26	UG/L #	54
12) 1,1-Dichloroethane	3.23	63	1555894	9.13	UG/L	100
13) MTBE	2.86	73	1276573	18.90	UG/L	100
14) 2,2-Dichloropropane	3.84	77	2060877	10.27	UG/L	100
15) 2-butanone	3.85	43	148677	19.63	UG/L #	100
16) 1,2-Dichloroethene(cis)	3.84	96	822958	10.53	UG/L #	37
17) Chloroform	4.22	83	1750834	10.10	UG/L	90
18) Tetrahydrofuran	2.83	42	71048m	8.94	UG/L	100
19) Bromochloromethane	4.13	128	206184	8.96	UG/L #	1
20) 1,1,1-Trichloroethane	4.50	97	2102244	10.36	UG/L	89
23) 1,1-Dichloropropene	4.76	110	475825	11.66	UG/L	100
24) Carbon Tetrachloride	4.76	117	1808017	10.83	UG/L	100
25) 1,2-Dichloroethane	5.10	62	642817	9.35	UG/L	97
26) Benzene	5.11	78	2850376	10.94	UG/L	100
27) Trichloroethene	6.29	130	980556	10.74	UG/L	98
28) 1,2-Dichloropropane	6.71	76	359218	9.93	UG/L	100
29) Bromodichloromethane	7.27	83	1144416	10.13	UG/L	99
30) Dibromomethane	6.94	93	292595	10.59	UG/L #	80
31) cis-1,3-Dichloropropene	8.24	75	989760	10.40	UG/L	100
32) 4-methyl-2-pentanone	8.61	43	523763	20.37	UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J092801\5050J.D
Acq On : 28 Sep 01 6:40
Sample : DW STD010
Misc : CALIBRATION CHECK 9/28/01
MS Integration Params: rteint.p
Quant Time: Sep 28 7:12 2001

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

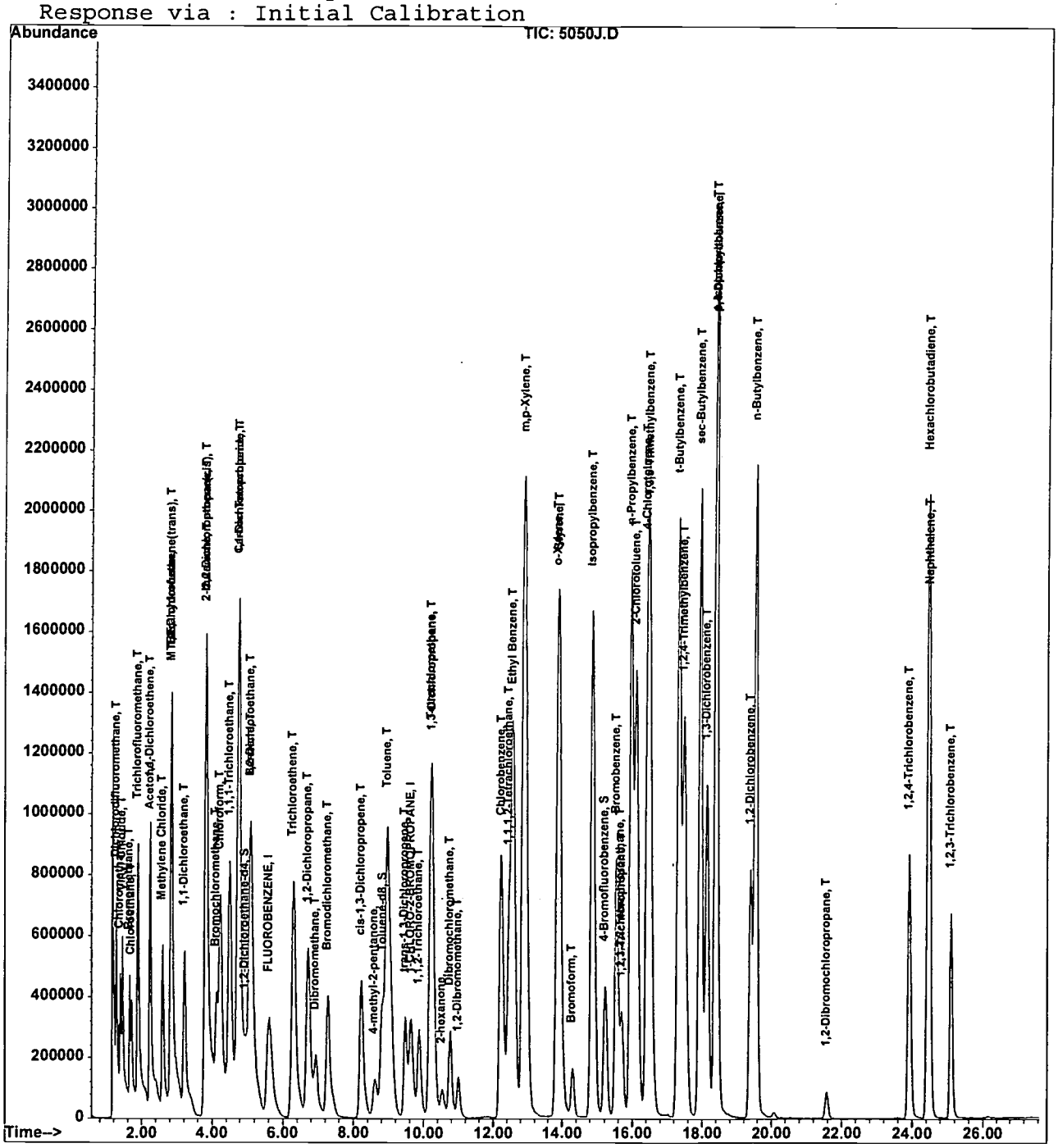
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34)	Toluene	8.98	91	3295269	11.19 UG/L	100
35)	2-hexanone	10.54	43	322049	20.60 UG/L #	100
36)	trans-1,3-Dichloropropene	9.48	75	672449	9.95 UG/L	100
37)	1,1,2-Trichloroethane	9.88	97	327576	10.52 UG/L	97
38)	1,3-Dichloropropane	10.26	76	626995	10.28 UG/L	100
39)	Tetrachloroethene	10.21	166	1387213	11.60 UG/L	99
40)	Dibromochloromethane	10.77	129	510341	10.39 UG/L	100
41)	1,2-Dibromomethane	11.00	107	375684	10.29 UG/L	97
42)	Chlorobenzene	12.26	112	1858915	11.02 UG/L	100
43)	1,1,1,2-Tetrachloroethane	12.46	131	698193	10.62 UG/L	100
44)	Ethyl Benzene	12.59	106	1190734	11.30 UG/L	80
45)	m,p-Xylene	12.90	106	2949626	21.96 UG/L	79
46)	o-Xylene	13.88	106	1310149	11.21 UG/L	82
47)	Styrene	13.92	104	1850113	11.09 UG/L #	58
48)	Bromoform	14.29	173	250353	10.62 UG/L	95
49)	Isopropylbenzene	14.89	105	4889323	11.36 UG/L	100
50)	1,1,2,2-Tetrachloroethane	15.69	83	391468	11.40 UG/L	95
52)	1,2,3-Trichloropropane	15.73	75	299075m	11.02 UG/L	90
53)	n-Propylbenzene	15.99	92	710490	11.40 UG/L	99
54)	Bromobenzene	15.55	77	1829528	10.75 UG/L #	78
55)	1,3,5-Trimethylbenzene	16.51	105	3618861	11.40 UG/L	100
56)	2-Chlorotoluene	16.12	126	859493	11.48 UG/L	100
57)	4-Chlorotoluene	16.43	126	782990	11.14 UG/L	100
58)	t-Butylbenzene	17.34	119	3859056	11.60 UG/L	100
59)	1,2,4-Trimethylbenzene	17.50	105	3284629	11.15 UG/L	100
60)	sec-Butylbenzene	17.95	105	5953569	11.73 UG/L	100
61)	p-Isopropyltoluene	18.40	119	4437482	11.74 UG/L	100
62)	1,3-Dichlorobenzene	18.15	146	1473714	11.45 UG/L	100
63)	1,4-Dichlorobenzene	18.42	146	1405907	11.40 UG/L	100
64)	n-Butylbenzene	19.54	92	2983523	12.16 UG/L	97
65)	1,2-Dichlorobenzene	19.40	146	1062759	11.21 UG/L	100
66)	1,2-Dibromochloropropane	21.59	157	57243	10.93 UG/L	100
67)	1,2,4-Trichlorobenzene	23.92	180	874214	12.64 UG/L	100
68)	Hexachlorobutadiene	24.46	225	1293515m	12.81 UG/L	100
69)	Naphthalene	24.51	128	566806	12.21 UG/L	100
70)	1,2,3-Trichlorobenzene	25.12	180	625513	12.79 UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\DATA\J092801\5050J.D Vial: 3
Acq On : 28 Sep 01 6:40 Operator: REGI
Sample : DW STD010 Inst : GCMS#9
Misc : CALIBRATION CHECK 9/28/01 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 28 7:12 2001 Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



R420460

Heritage Environmental Services
QC Report

Q1286609 1

QC Type	BLA01	Duplicate Sample ID		Data File	5051J.D
Date Entered	02Oct2001	Duplicate QCSampleID		Analyst	1062 R. SHAMP
Analysis Date/Time	28Sep2001 07:26:00	Method 109	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
300	DICHLORODIFLUOROMETHANE			0.50	BDL		
236	CHLOROMETHANE			0.50	BDL		
768	VINYL CHLORIDE			0.50	BDL		
198	BROMOMETHANE			0.50	BDL		
234	CHLOROETHANE			0.50	BDL		
372	TRICHLOROFLUOROMETHANE			0.50	BDL		
8	1,1-DICHLOROETHENE			0.50	BDL		
302	DICHLOROMETHANE (METHYLENE CHLORIDE)			0.50	BDL		
746	TRANS-1,2-DICHLOROETHENE			0.50	BDL		
7	1,1-DICHLOROETHANE			0.50	BDL		
33	2,2-DICHLOROPROPANE			0.50	BDL		
246	CIS-1,2-DICHLOROETHENE			0.50	BDL		
235	CHLOROFORM			0.50	BDL		
194	BROMOCHLOROMETHANE			0.50	BDL		
2	1,1,1-TRICHLOROETHANE			0.50	BDL		
10	1,1-DICHLOROPROPENE			0.50	BDL		
217	CARBON TETRACHLORIDE			0.50	BDL		
21	1,2-DICHLOROETHANE			0.50	BDL		
151	BENZENE			0.50	BDL		
750	TRICHLOROETHENE			0.20	BDL		
23	1,2-DICHLOROPROPANE			0.50	BDL		
299	DICHLOROBROMOMETHANE			0.50	BDL		
296	DIBROMOMETHANE			0.50	BDL		
247	CIS-1,3-DICHLOROPROPENE			0.50	BDL		
724	TOLUENE			0.50	BDL		
747	TRANS-1,3-DICHLOROPROPENE			0.50	BDL		
4	1,1,2-TRICHLOROETHANE			0.50	BDL		
27	1,3-DICHLOROPROPANE			0.50	BDL		
703	TETRACHLOROETHENE			0.50	BDL		
295	DIBROMOCHLOROMETHANE			0.50	BDL		
231	CHLOROBENZENE			0.50	BDL		
349	ETHYL BENZENE			0.50	BDL		
1	1,1,1,2-TETRACHLOROETHANE			0.50	BDL		
492	M/P-XYLENE			0.50	BDL		
549	O-XYLENE			0.50	BDL		
680	STYRENE			0.50	BDL		
432	ISOPROPYLBENZENE (CUMENE)			0.50	BDL		
197	BROMOFORM			0.50	BDL		
3	1,1,2,2-TETRACHLOROETHANE			0.50	BDL		
532	N-PROPYLBENZENE			0.50	BDL		
193	BROMOBENZENE			0.50	BDL		
25	1,3,5-TRIMETHYLBENZENE			0.50	BDL		
807	2-CHLOROTOLUENE (O-CHLOROTOLUENE)			0.50	BDL		
808	4-CHLOROTOLUENE (P-CHLOROTOLUENE)			0.50	BDL		
702	TERT-BUTYLBENZENE			0.50	BDL		
17	1,2,4-TRIMETHYLBENZENE			0.50	BDL		
644	SEC-BUTYLBENZENE			0.50	BDL		
628	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUEN			0.50	BDL		
26	1,3-DICHLOROBENZENE (M-DICHLOROBENZEN			0.50	BDL		
29	1,4-DICHLOROBENZENE (P-DICHLOROBENZEN			0.20	BDL		
519	N-BUTYLBENZENE			0.50	BDL		
20	1,2-DICHLOROBENZENE (O-DICHLOROBENZEN			0.50	BDL		
19	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)			0.50	BDL		

PGM 10-2-01

NW 10/2/01

QC Report

QC Type	BLA01	Duplicate Sample ID		Data File	5051J.D
Date Entered	02Oct2001	Duplicate QCSampleID		Analyst	1062 R. SHAMP
Analysis Date/Time	28Sep2001 07:26:00	Method 109	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
16	1,2,4-TRICHLOROBENZENE			0.50	BDL		
398	HEXACHLOROBUTADIENE			0.50	BDL		
493	NAPHTHALENE			0.50	BDL		
13	1,2,3-TRICHLOROBENZENE			0.50	BDL		
14	1,2,3-TRICHLOROPROPANE			0.50	BDL		
99	ACETONE (2-PROPANONE)			5.8			
475	METHYL ETHYL KETONE			2.0	BDL		
476	METHYL ISOBUTYL KETONE			2.0	BDL		
709	TETRAHYDROFURAN			5.0	BDL		
60	2-HEXANONE			2.0	BDL		
859	METHYL-T-BUTYL ETHER (MTBE)			0.50	BDL		
301	DICHLOROETHANE-D4					82	
726	TOLUENE-D8					101	
196	4-BROMOFLUOROBENZENE					102	

Comments

NA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\DATA\J092801\5051J.D
Acq On : 28 Sep 01 7:26
Sample : DW BLANK
Misc : 9/28/01
MS Integration Params: rteint.p
Quant Time: Sep 28 7:54 2001

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Q1286609

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.64	96	1564912	10.00 UG/L	-0.07
22) 1-CHLORO-2-BROMOPROPANE	9.64	77	755476	10.00 UG/L	-0.06
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	4.97	65	280342	4.09 UG/L	-0.04
Spiked Amount 5.000			Recovery	= 81.80%	
33) Toluene-d8	8.82	98	1390490	5.04 UG/L	-0.03
Spiked Amount 5.000			Recovery	= 100.80%	
51) 4-Bromofluorobenzene	15.22	95	761858	5.08 UG/L	-0.02
Spiked Amount 5.000			Recovery	= 101.60%	
Target Compounds					Qvalue
9) Acetone 5.8	2.26	43	36052	5.76 UG/L #	100
10) ~~Methylene Ch~~loride	2.59	84	11363	0.22 UG/L	89
36) ~~trans-1,3-D~~ichloropropene	9.64	75	10810	0.15 UG/L	100

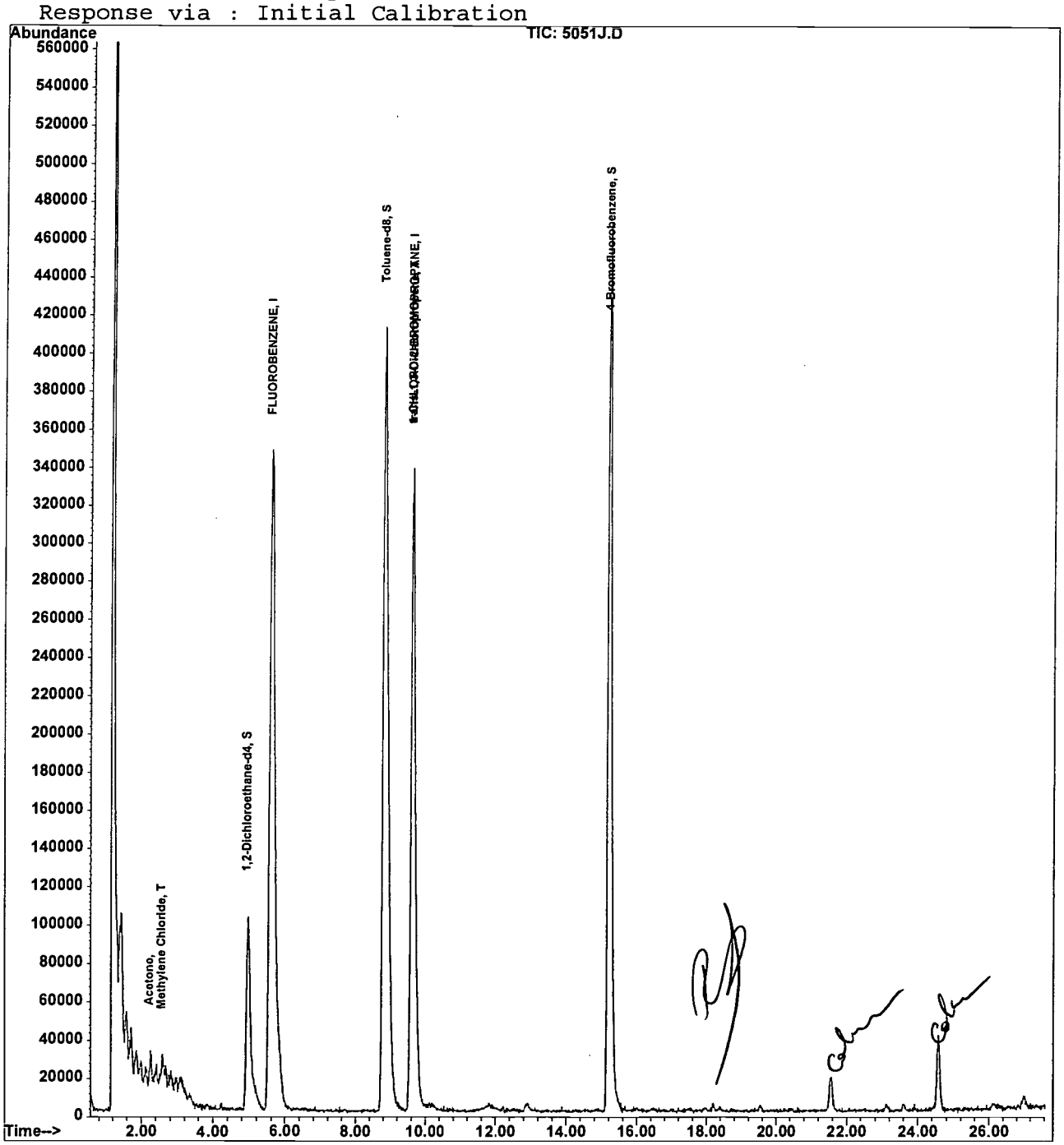
(#) = qualifier out of range (m) = manual integration

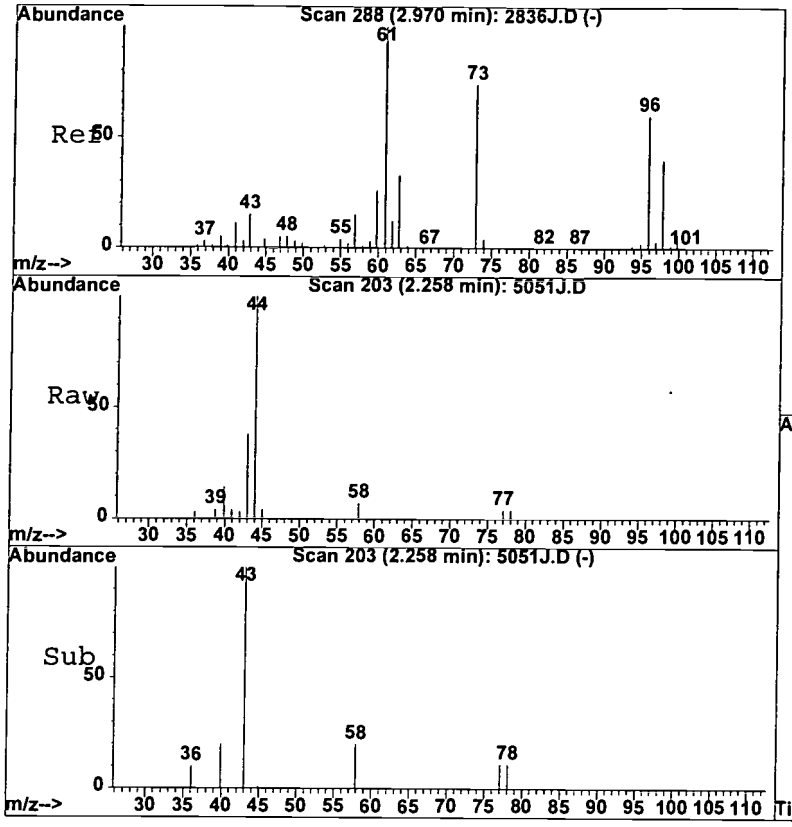
Quantitation Report

Data File : C:\HPCHEM\DATA\J092801\5051J.D
Acq On : 28 Sep 01 7:26
Sample : DW BLANK
Misc : 9/28/01
MS Integration Params: rteint.p
Quant Time: Sep 28 7:54 2001

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration

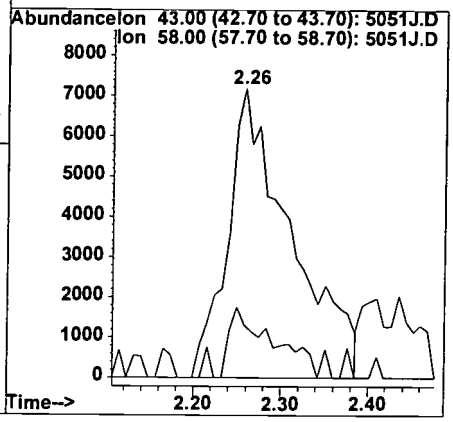


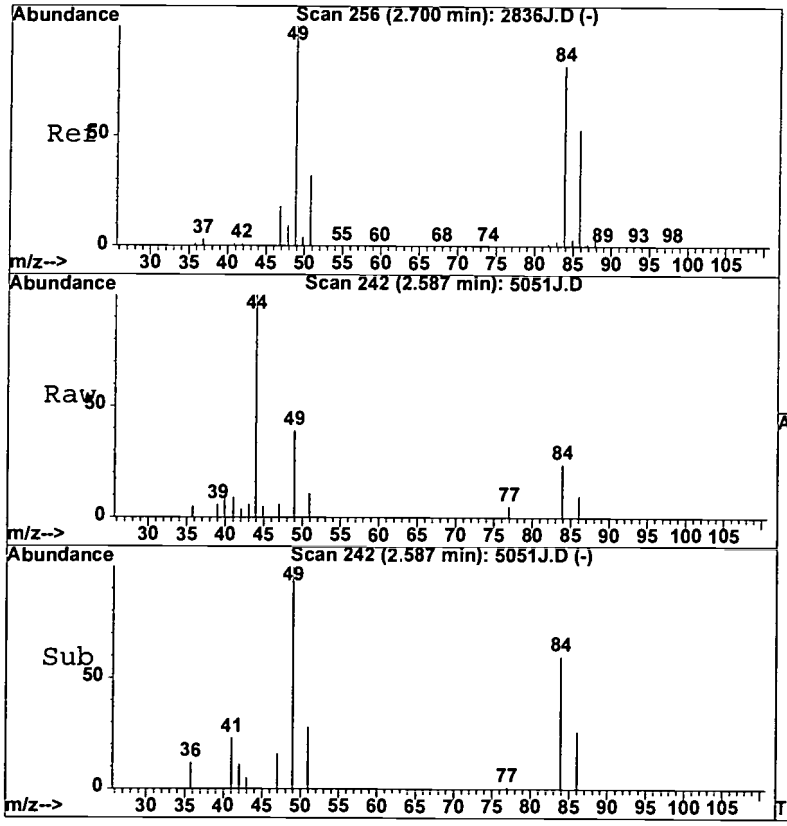


#9
Acetone
Concen: 5.76 UG/L
RT: 2.26 min Scan# 203
Delta R.T. -0.02 min
Lab File: 5051J.D
Acq: 28 Sep 01 7:26

Tgt Ion: 43 Resp: 36052

Ion	Ratio	Lower	Upper
43	100		
58	16.9	0.0	0.0#

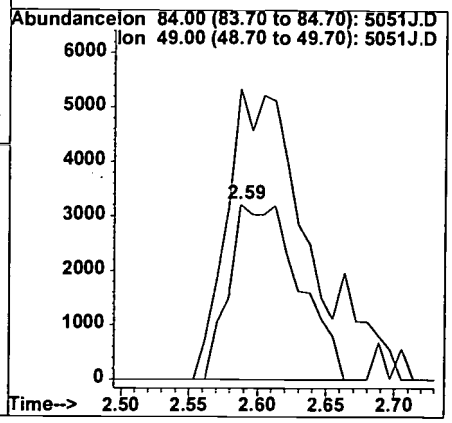


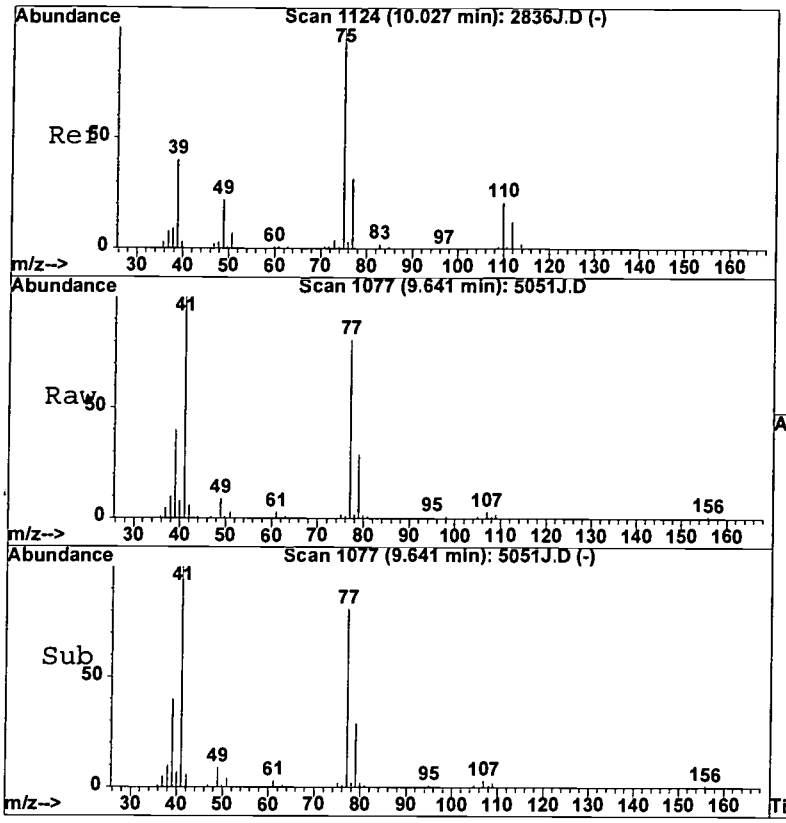


#10
Methylene Chloride
Concen: 0.22 UG/L
RT: 2.59 min Scan# 242
Delta R.T. -0.01 min
Lab File: 5051J.D
Acq: 28 Sep 01 7:26

Tgt Ion: 84 Resp: 11363

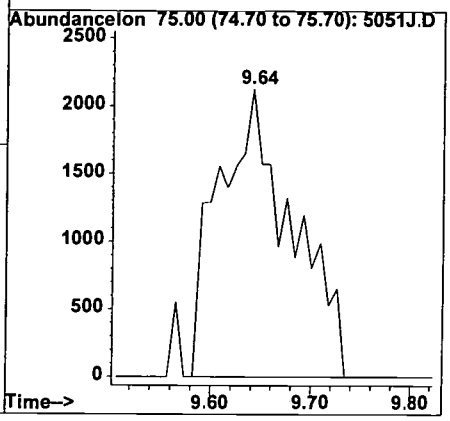
Ion	Ratio	Lower	Upper
84	100		
49	169.4	124.3	186.5





#36
trans-1,3-Dichloropropene
Concen: 0.15 UG/L
RT: 9.64 min Scan# 1077
Delta R.T. 0.11 min
Lab File: 5051J.D
Acq: 28 Sep 01 7:26

Tgt Ion: 75 Resp: 10810



QC Std# 239
Method# 296

Heritage Environmental Services, Indianapolis
LCS01 Volatile QC Report-EPA Method 524
Drinking Water

Q1286610

LCS Data File : 5052J.
LCS Date/Time : 092801 08:09

Spike Conc : 5 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Benzene	4.97	99.4	80.0	120.0
Carbon Tetrachloride	4.67	93.4	80.0	120.0
1,4-Dichlorobenzene	5.59	111.8	76.3	126.7
1,2-Dichloroethane	4.41	88.2	80.0	121.9
1,1-Dichloroethene	4.55	91.0	80.0	120.0
1,1,1-Trichloroethane	4.87	97.4	80.0	120.0
Trichloroethene	4.7	94.0	79.0	120.0
Vinyl Chloride	4.71	94.2	71.2	126.8
Bromobenzene	5.14	102.8	80.0	122.7
Bromodichloromethane	4.86	97.2	80.0	120.0
Bromoform	5.23	104.6	74.3	120.0
Bromomethane	5.44	108.8	77.1	129.1
Chlorobenzene	5.19	103.8	80.0	120.0
Dibromochloromethane	5.27	105.4	78.1	120.0
Chloroethane	5.65	113.0	80.0	124.5
Chloroform	5.21	104.2	80.0	120.0
Chloromethane	4.44	88.8	65.5	134.9
2-Chlorotoluene	5.2	104.0	80.0	123.9
4-Chlorotoluene	5.03	100.6	80.0	123.1
Dibromomethane	5.31	106.2	80.0	120.0
1,3-Dichlorobenzene	5.61	112.2	77.8	124.4
1,2-Dichlorobenzene	5.66	113.2	75.3	128.5
1,2-Dichloroethene(trans)	4.66	93.2	80.0	120.0
1,2-Dichloroethene(cis)	4.91	98.2	80.0	120.0
Methylene Chloride	5.77	115.4	80.0	121.9
1,1-Dichloroethane	4.71	94.2	80.0	125.8
1,1-Dichloropropene	4.54	90.8	80.0	120.0
1,2-Dichloropropane	4.95	99.0	80.0	120.0
1,3-Dichloropropane	5.27	105.4	80.0	120.0
cis-1,3-Dichloropropene	5.05	101.0	80.0	120.0
trans-1,3-Dichloropropene	5.05	101.0	80.0	120.0
2,2-Dichloropropane	4.3	86.0	80.0	124.5
Ethyl Benzene	5.12	102.4	80.0	120.0
Styrene	5.32	106.4	80.0	123.2
1,1,2-Trichloroethane	5.29	105.8	80.0	120.0
1,1,1,2-Tetrachloroethane	5.2	104.0	77.7	120.1
1,1,2,2-Tetrachloroethane	5.9	118.0	80.0	120.0
Tetrachloroethene	5.02	100.4	77.3	120.0
1,2,3-Trichloropropane	5.84	116.8	65.8	131.2

QC Std# 239
Method# 296

Heritage Environmental Services, Indianapolis
LCS01 Volatile QC Report-EPA Method 524
Drinking Water

LCS Data File : 5052J.
LCS Date/Time : 092801 08:09
Spike Conc : 5 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Toluene	5.13	102.6	80.0	120.0
o-Xylene	5.25	105.0	80.0	123.8
m,p-Xylene	9.89	98.9	80.0	122.8
Bromochloromethane	5.29	105.8	78.7	120.0
n-Butylbenzene	5.06	101.2	79.0	123.2
Dichlorodifluoromethane	4.24	84.8	41.6	128.6
Trichlorofluoromethane	4.36	87.2	80.0	125.7
Hexachlorobutadiene	5.91	118.2	51.9	146.7
Isopropylbenzene	4.99	99.8	60.0	136.4
p-Isopropyltoluene	5.11	102.2	78.2	120.8
Naphthalene	6.27	125.4	68.1	149.1
n-Propylbenzene	4.88	97.6	70.9	130.7
sec-Butylbenzene	5.1	102.0	70.6	131.0
t-Butylbenzene	5.18	103.6	59.6	137.8
1,2,3-Trichlorobenzene	6.61	132.2	66.0	149.0
1,2,4-Trichlorobenzene	6.28	125.6	66.4	140.8
1,2,4-Trimethylbenzene	5.21	104.2	77.9	132.1
1,3,5-Trimethylbenzene	5.1	102.0	70.6	135.4

* Advisory Limits Updated 3/95 , 80 - 120% minimum range.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J092801\5052J.D
Acq On : 28 Sep 01 8:09
Sample : DI MS
Misc : 9/28/01
MS Integration Params: rteint.p
Quant Time: Sep 28 8:39 2001

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.62	96	1544653	10.00 UG/L	-0.08
22) 1-CHLORO-2-BROMOPROPANE	9.65	77	791636m	10.00 UG/L	-0.05
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	4.98	65	317902m	4.69 UG/L	-0.02
Spiked Amount 5.000			Recovery	= 93.80%	
33) Toluene-d8	8.82	98	1328952	4.60 UG/L	-0.03
Spiked Amount 5.000			Recovery	= 92.00%	
51) 4-Bromofluorobenzene	15.23	95	734699	4.67 UG/L	0.00
Spiked Amount 5.000			Recovery	= 93.40%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.27	85	514151m	4.24 UG/L	100
3) Chloromethane	1.38	50	350677	4.44 UG/L	100
4) Vinyl Chloride	1.45	62	366531	4.71 UG/L	98
5) Bromomethane	1.66	94	283063	5.44 UG/L	99
6) Chloroethane	1.72	64	254131	5.65 UG/L	89
7) Trichlorofluoromethane	1.89	101	844943	4.36 UG/L	95
8) 1,1-Dichloroethene	2.25	96	351250	4.55 UG/L #	44
9) Acetone	2.26	43	68469	11.09 UG/L #	100
10) Methylene Chloride	2.59	84	296631	5.77 UG/L	89
11) 1,2-Dichloroethene(trans)	2.84	96	390186	4.66 UG/L #	72
12) 1,1-Dichloroethane	3.22	63	834470	4.71 UG/L	100
13) MTBE	2.84	73	766828	10.91 UG/L	100
14) 2,2-Dichloropropane	3.83	77	897224	4.30 UG/L	100
15) 2-butanone	3.84	43	91505	11.61 UG/L #	100
16) 1,2-Dichloroethene(cis)	3.83	96	399820	4.91 UG/L #	16
17) Chloroform	4.23	83	939921	5.21 UG/L	90
18) Tetrahydrofuran	2.85	42	37132	4.49 UG/L	100
19) Bromochloromethane	4.12	128	126776	5.29 UG/L #	1
20) 1,1,1-Trichloroethane	4.49	97	1028481	4.87 UG/L	91
23) 1,1-Dichloropropene	4.75	110	211269	4.54 UG/L	100
24) Carbon Tetrachloride	4.76	117	889463m	4.67 UG/L	83
25) 1,2-Dichloroethane	5.09	62	346327	4.41 UG/L	100
26) Benzene	5.11	78	1475909	4.97 UG/L	100
27) Trichloroethene	6.30	130	489728	4.70 UG/L	99
28) 1,2-Dichloropropane	6.71	76	204122	4.95 UG/L	100
29) Bromodichloromethane	7.27	83	626404	4.86 UG/L	99
30) Dibromomethane	6.93	93	167470	5.31 UG/L	65
31) cis-1,3-Dichloropropene	8.23	75	547536	5.05 UG/L	100
32) 4-methyl-2-pentanone	8.62	43	317759	10.83 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J092801\5052J.D
Acq On : 28 Sep 01 8:09
Sample : DI MS
Misc : 9/28/01
MS Integration Params: rteint.p
Quant Time: Sep 28 8:39 2001

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Toluene	8.96	91	1722980	5.13 UG/L	100
35) 2-hexanone	10.55	43	184682	10.36 UG/L #	100
36) trans-1,3-Dichloropropene	9.48	75	389167	5.05 UG/L	100
37) 1,1,2-Trichloroethane	9.87	97	187839	5.29 UG/L	93
38) 1,3-Dichloropropane	10.25	76	366712	5.27 UG/L	100
39) Tetrachloroethene	10.22	166	684120	5.02 UG/L	99
40) Dibromochloromethane	10.76	129	295007	5.27 UG/L	100
41) 1,2-Dibromomethane	11.00	107	228641	5.49 UG/L	95
42) Chlorobenzene	12.24	112	998099	5.19 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.47	131	390046m	5.20 UG/L	100
44) Ethyl Benzene	12.56	106	614831	5.12 UG/L	81
45) m,p-Xylene	12.92	106	1514564	9.89 UG/L	81
46) o-Xylene	13.90	106	700221	5.25 UG/L	85
47) Styrene	13.94	104	1013145	5.32 UG/L #	58
48) Bromoform	14.30	173	140652	5.23 UG/L	99
49) Isopropylbenzene	14.88	105	2448634	4.99 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.68	83	230935	5.90 UG/L	96
52) 1,2,3-Trichloropropane	15.74	75	180840m	5.84 UG/L	77
53) n-Propylbenzene	16.00	92	346814	4.88 UG/L	93
54) Bromobenzene	15.55	77	997901	5.14 UG/L #	80
55) 1,3,5-Trimethylbenzene	16.53	105	1846658	5.10 UG/L	100
56) 2-Chlorotoluene	16.13	126	444111	5.20 UG/L	100
57) 4-Chlorotoluene	16.44	126	402702	5.03 UG/L	100
58) t-Butylbenzene	17.35	119	1965564	5.18 UG/L	100
59) 1,2,4-Trimethylbenzene	17.51	105	1749411	5.21 UG/L	100
60) sec-Butylbenzene	17.96	105	2948687	5.10 UG/L	100
61) p-Isopropyltoluene	18.42	119	2201533	5.11 UG/L	100
62) 1,3-Dichlorobenzene	18.16	146	823851	5.61 UG/L	100
63) 1,4-Dichlorobenzene	18.40	146	785357	5.59 UG/L	100
64) n-Butylbenzene	19.55	92	1414624	5.06 UG/L	95
65) 1,2-Dichlorobenzene	19.39	146	612155	5.66 UG/L	100
66) 1,2-Dibromochloropropane	21.59	157	35771	5.99 UG/L	100
67) 1,2,4-Trichlorobenzene	23.93	180	494946	6.28 UG/L	100
68) Hexachlorobutadiene	24.46	225	680270	5.91 UG/L	100
69) Naphthalene	24.51	128	332036	6.27 UG/L	100
70) 1,2,3-Trichlorobenzene	25.11	180	368534	6.61 UG/L	100

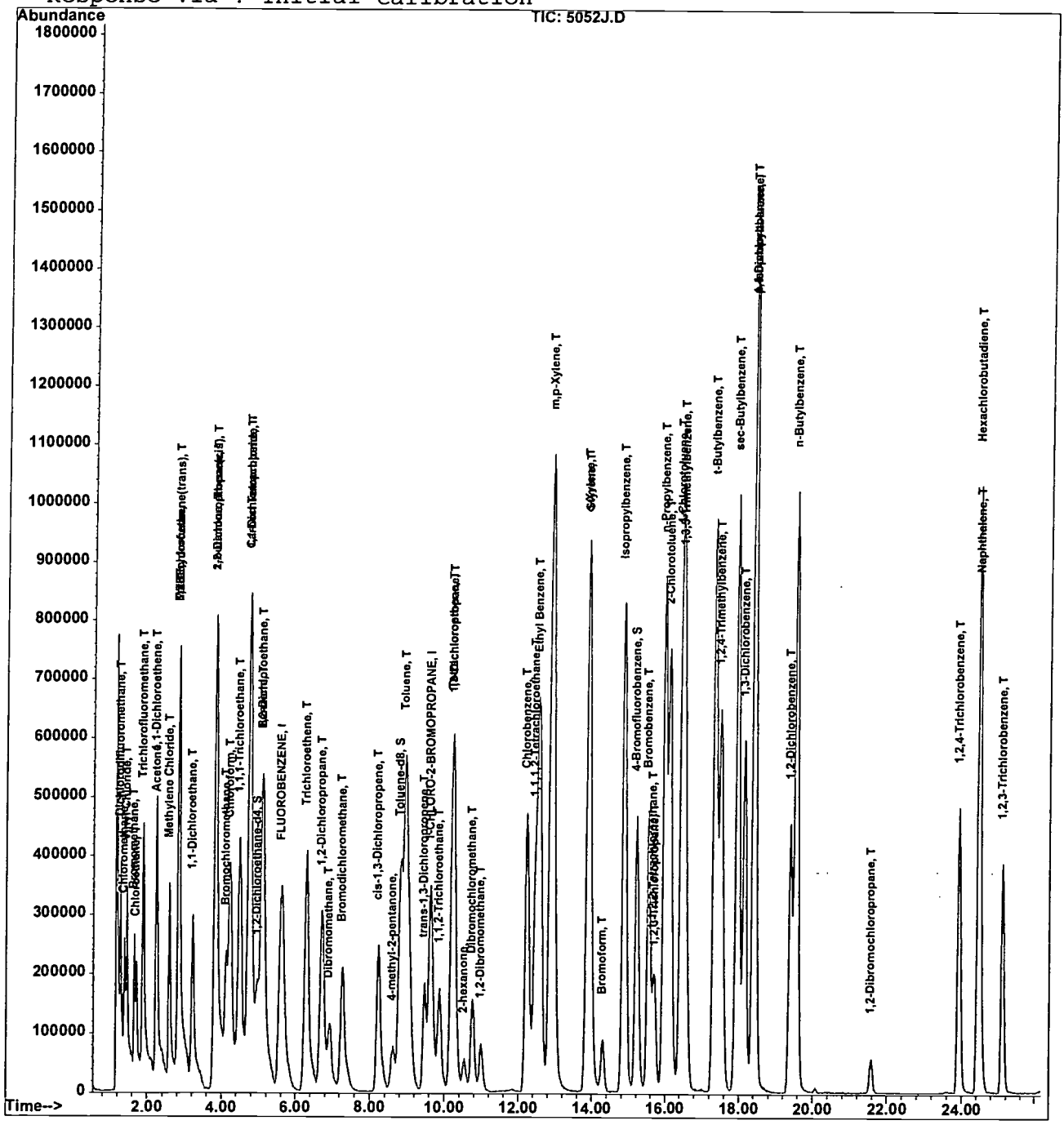
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\DATA\J092801\5052J.D
Acq On : 28 Sep 01 8:09
Sample : DI MS
Misc : 9/28/01
MS Integration Params: rteint.p
Quant Time: Sep 28 8:39 2001

Vial: 3
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



R420460

Heritage Environmental Services

GC/MS VOA

A567128

Method : EPA 524.2 REV. 4.1
Sample Description : DK27547
Submitter : IDEM - OFFICE OF WATER MANAGEM
Instrument # : 176 Channel # : 1

Test Code O516.9.0
Analyst #: 1062 R. SHAMP
File : 5062J.D Date/Time : 28Sep2001 13:44:00
Dilution Factor 1

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
NA	1807	REGULATED CONTAMINANTS					
71-43-2	151	BENZENE		BDL	0.50	UG/L	
56-23-5	217	CARBON TETRACHLORIDE		BDL	0.50	UG/L	
106-46-7	29	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)		BDL	0.20	UG/L	
107-06-2	21	1,2-DICHLOROETHANE		BDL	0.50	UG/L	
75-35-4	8	1,1-DICHLOROETHENE		BDL	0.50	UG/L	
71-55-6	2	1,1,1-TRICHLOROETHANE		BDL	0.50	UG/L	
79-01-6	750	TRICHLOROETHENE		BDL	0.20	UG/L	
75-01-4	768	VINYL CHLORIDE		BDL	0.50	UG/L	
108-90-7	231	CHLOROBENZENE		BDL	0.50	UG/L	
95-50-1	20	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)		BDL	0.50	UG/L	
156-60-5	746	TRANS-1,2-DICHLOROETHENE		BDL	0.50	UG/L	
156-59-2	246	CIS-1,2-DICHLOROETHENE		BDL	0.50	UG/L	
75-09-2	302	DICHLOROMETHANE (METHYLENE CHLORIDE)		BDL	0.50	UG/L	
78-87-5	23	1,2-DICHLOROPROPANE		BDL	0.50	UG/L	
100-41-4	349	ETHYL BENZENE		BDL	0.50	UG/L	
100-42-5	680	STYRENE		BDL	0.50	UG/L	
79-00-5	4	1,1,2-TRICHLOROETHANE		BDL	0.50	UG/L	
127-18-4	703	TETRACHLOROETHENE		BDL	0.50	UG/L	
108-88-3	724	TOLUENE		BDL	0.50	UG/L	
95-47-6	549	O-XYLENE		BDL	0.50	UG/L	
MPXYLENE	492	M/P-XYLENE		BDL	0.50	UG/L	
120-82-1	16	1,2,4-TRICHLOROBENZENE		BDL	0.50	UG/L	
NA	1809	UNREGULATED - MONITORING REQUIRED					
108-86-1	193	BROMOBENZENE		BDL	0.50	UG/L	
75-27-4	195	BROMODICHLOROMETHANE		BDL	0.50	UG/L	
75-25-2	197	BROMOFORM		BDL	0.50	UG/L	
74-83-9	198	BROMOMETHANE		BDL	0.50	UG/L	
124-48-1	233	CHLORODIBROMOMETHANE		BDL	0.50	UG/L	
75-00-3	234	CHLOROETHANE		BDL	0.50	UG/L	
67-66-3	235	CHLOROFORM		BDL	0.50	UG/L	
74-87-3	236	CHLOROMETHANE		BDL	0.50	UG/L	
95-49-8	807	2-CHLOROTOLUENE (O-CHLOROTOLUENE)		BDL	0.50	UG/L	
106-43-4	808	4-CHLOROTOLUENE (P-CHLOROTOLUENE)		BDL	0.50	UG/L	
74-95-3	296	DIBROMOMETHANE		BDL	0.50	UG/L	
541-73-1	26	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)		BDL	0.50	UG/L	
75-34-3	7	1,1-DICHLOROETHANE		BDL	0.50	UG/L	
563-58-6	10	1,1-DICHLOROPROPENE		BDL	0.50	UG/L	
142-28-9	27	1,3-DICHLOROPROPANE		BDL	0.50	UG/L	
10061-01-5	247	CIS-1,3-DICHLOROPROPENE		BDL	0.50	UG/L	
10061-02-6	747	TRANS-1,3-DICHLOROPROPENE		BDL	0.50	UG/L	
590-20-7	33	2,2-DICHLOROPROPANE		BDL	0.50	UG/L	
630-20-6	1	1,1,1,2-TETRACHLOROETHANE		BDL	0.50	UG/L	
79-34-5	3	1,1,2,2-TETRACHLOROETHANE		BDL	0.50	UG/L	
96-18-4	14	1,2,3-TRICHLOROPROPANE		BDL	0.50	UG/L	
NA	1806	MONITORED AT STATE'S DISCRETION					

10.2.01

10/2/01

R420460 **Heritage Environmental Services** A567128

GC/MS VOA

Method : EPA 524.2 REV. 4.1 **Test Code O516.9.0**

Sample Description : DK27547 Analyst #: 1062 R. SHAMP

Submitter : IDEM - OFFICE OF WATER MANAGEM File : 5062J.D Date/Time : 28Sep2001 13:44:00

Instrument # : 176 Channel # : 1 Dilution Factor 1

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
74-97-5	194	BROMOCHLOROMETHANE		BDL	0.50	UG/L	
104-51-8	519	N-BUTYLBENZENE		BDL	0.50	UG/L	
75-71-8	300	DICHLORODIFLUOROMETHANE		BDL	0.50	UG/L	
75-69-4	372	TRICHLOROFLUOROMETHANE		BDL	0.50	UG/L	
87-68-3	398	HEXACHLOROBUTADIENE		BDL	0.50	UG/L	
98-82-8	432	ISOPROPYLBENZENE (CUMENE)		BDL	0.50	UG/L	
99-87-6	628	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)		BDL	0.50	UG/L	
91-20-3	493	NAPHTHALENE		BDL	0.50	UG/L	
103-65-1	532	N-PROPYLBENZENE		BDL	0.50	UG/L	
135-98-8	644	SEC-BUTYLBENZENE		BDL	0.50	UG/L	
98-06-6	702	TERT-BUTYLBENZENE		BDL	0.50	UG/L	
87-61-6	13	1,2,3-TRICHLOROBENZENE		BDL	0.50	UG/L	
95-63-6	17	1,2,4-TRIMETHYLBENZENE		BDL	0.50	UG/L	
108-67-8	25	1,3,5-TRIMETHYLBENZENE		BDL	0.50	UG/L	
106-93-4	18	1,2-DIBROMOETHANE (EDB)		BDL	0.50	UG/L	
96-12-8	19	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)		BDL	0.50	UG/L	
1634-04-4	859	METHYL-T-BUTYL ETHER (MTBE)		BDL	0.50	UG/L	
NA	1804	...					
NA	971	SURROGATE RECOVERY					
NA	972	----------					
17060-07-0	301	DICHLOROETHANE-D4	89			% REC	
2037-26-5	726	TOLUENE-D8	103			% REC	
460-00-4	196	4-BROMOFLUOROBENZENE	103			% REC	
NA	1804	...					
TIC	1131	TENTATIVELY IDENTIFIED COMPOUNDS					
NA	972	----------					
NA	758	UNKNOWN	1.2	J		UG/L	16.33

Test Comments

NA

RQL

BDL Below Detection Limit

J Estimated

ALSO DETECTED COMPOUNDS	ESTIMATED CONCENTRATION	RT. TIME
Acetone	4.5 J	2.24
MEK	2.2 J	3.87

KSM 11-2-61

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J092801\5062J.D
Acq On : 28 Sep 01 13:44
Sample : A567128 DK27547
Misc : 9/28/01
MS Integration Params: rteint.p
Quant Time: Oct 1 5:48 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.67	96	1383792	10.00 UG/L	-0.04
22) 1-CHLORO-2-BROMOPROPANE	9.65	77	641155	10.00 UG/L	-0.04
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	4.98	65	269389m	4.44 UG/L	-0.03
Spiked Amount 5.000			Recovery	= 88.80%	
33) Toluene-d8	8.84	98	1205952	5.15 UG/L	-0.01
Spiked Amount 5.000			Recovery	= 103.00%	
51) 4-Bromofluorobenzene	15.23	95	658661	5.17 UG/L	-0.01
Spiked Amount 5.000			Recovery	= 103.40%	
Target Compounds					Qvalue
9) ~~Aceto~~ne	2.26	43	24748	4.47 UG/L #	100
10) ~~Methylene Ch~~loride	2.60	84	15368	0.33 UG/L #	59
~~15) 2 butanone~~	3.87	43	15172	2.15 UG/L #	100
32) ~~4-methyl-2-pen~~tanone	8.82	43	3642	0.15 UG/L #	100

TICS

(#) = qualifier out of range (m) = manual integration

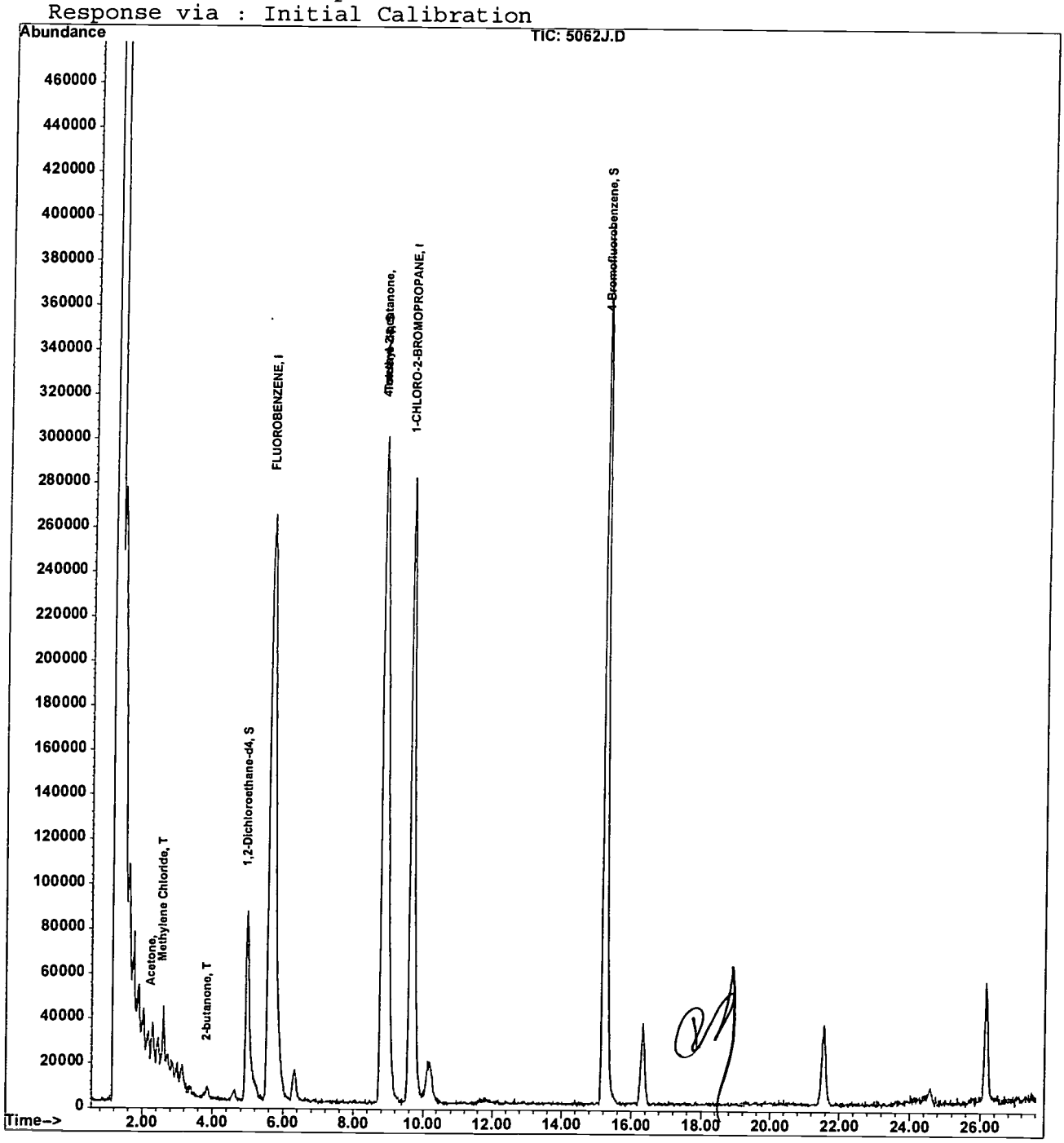
Quantitation Report

Data File : C:\HPCHEM\DATA\J092801\5062J.D
Acq On : 28 Sep 01 13:44
Sample : A567128 DK27547
Misc : 9/28/01
MS Integration Params: rteint.p
Quant Time: Oct 1 5:48 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration

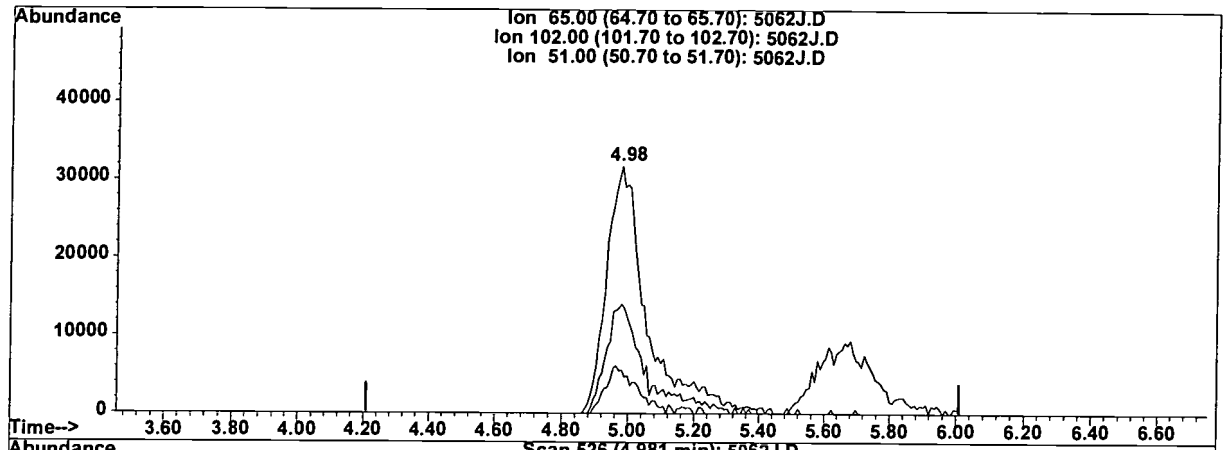


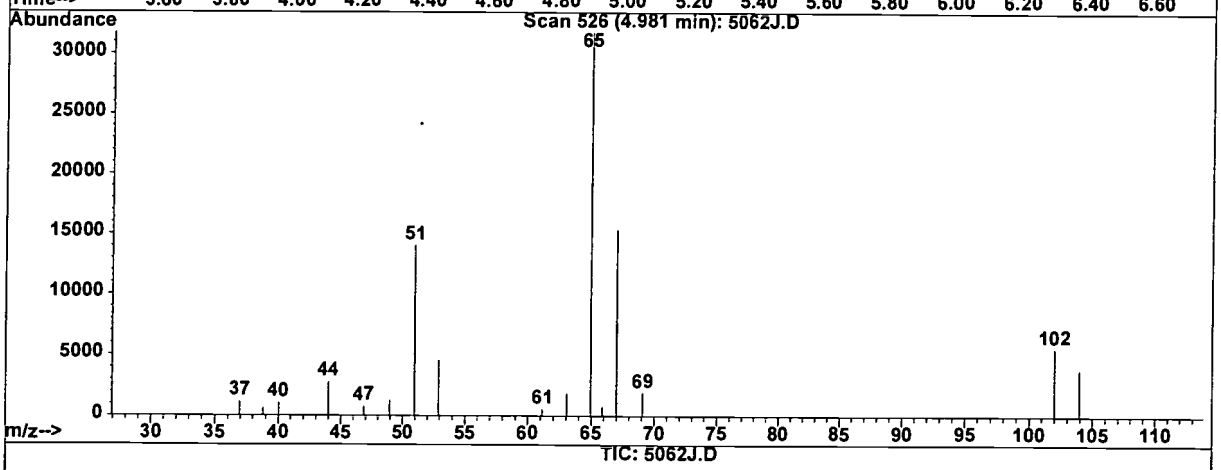
Quantitation Report

Data File : C:\HPCHEM\DATA\J092801\5062J.D
Acq On : 28 Sep 01 13:44
Sample : A567128 DK27547
Misc : 9/28/01
Quant Time: Oct 1 5:48 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Multiple Level Calibration





TIC: 5062J.D

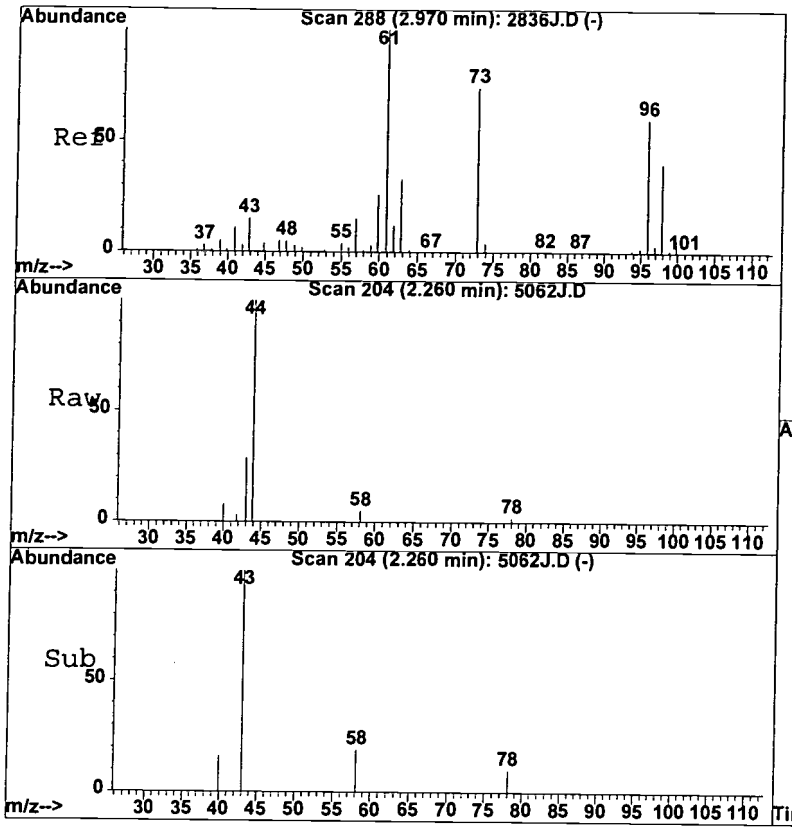
(21) 1,2-Dichloroethane-d4 (S)

4.98min 4.44UG/L m

response 269389

Ion	Exp%	Act%
65.00	100	100
102.00	34.80	14.49#
51.00	62.30	35.66#
0.00	0.00	0.00

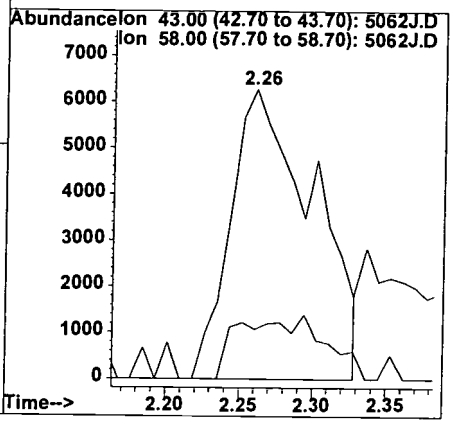
5062J.D DWJ.M Mon Oct 01 05:48:35 2001 RPT1

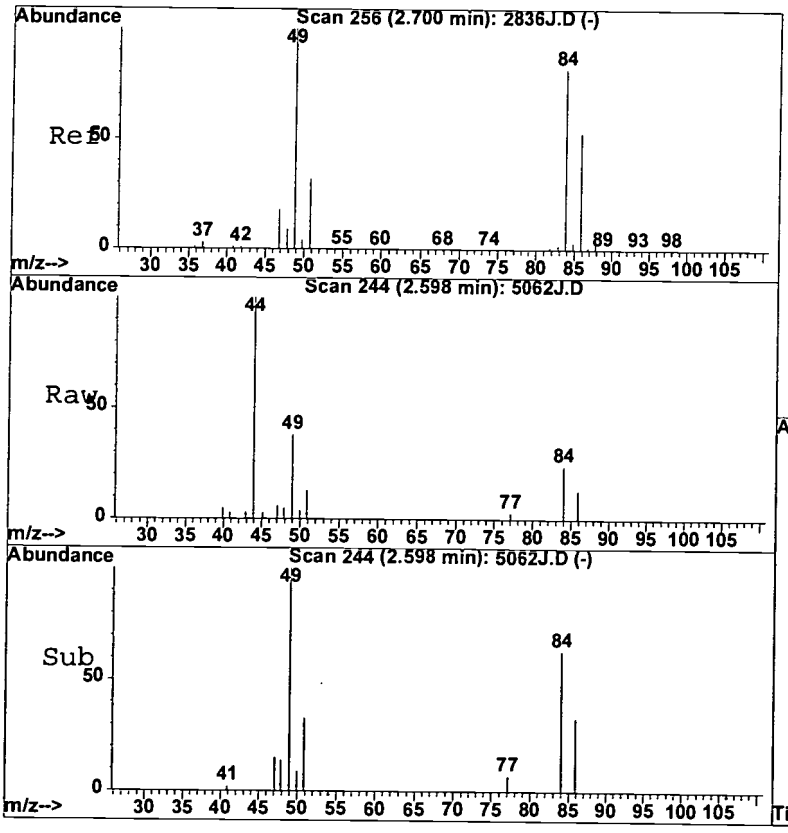


#9
Acetone
Concen: 4.47 UG/L
RT: 2.26 min Scan# 204
Delta R.T. -0.02 min
Lab File: 5062J.D
Acq: 28 Sep 01 13:44

Tgt Ion: 43 Resp: 24748

Ion	Ratio	Lower	Upper
43	100		
58	7.0	0.0	0.0#

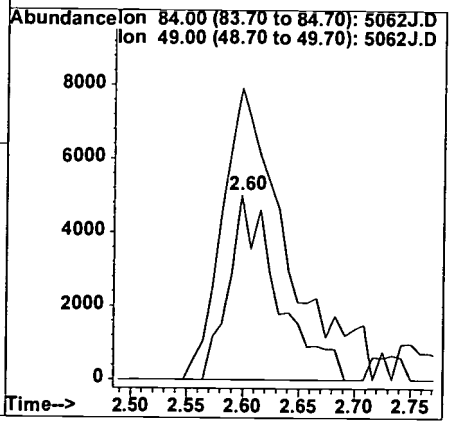


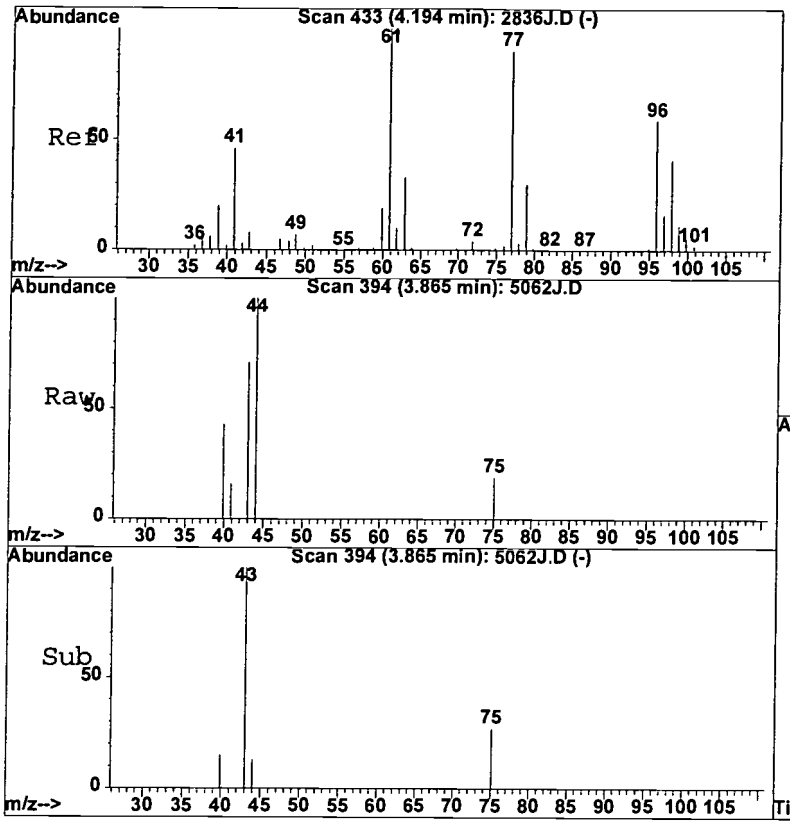


#10
Methylene Chloride
Concen: 0.33 UG/L
RT: 2.60 min Scan# 244
Delta R.T. -0.00 min
Lab File: 5062J.D
Acq: 28 Sep 01 13:44

Tgt Ion: 84 Resp: 15368

Ion	Ratio	Lower	Upper
84	100		
49	208.6	124.3	186.5#

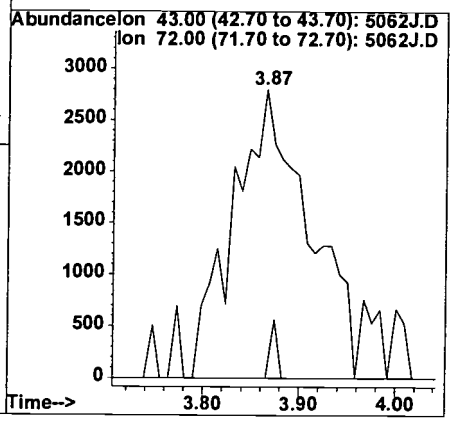


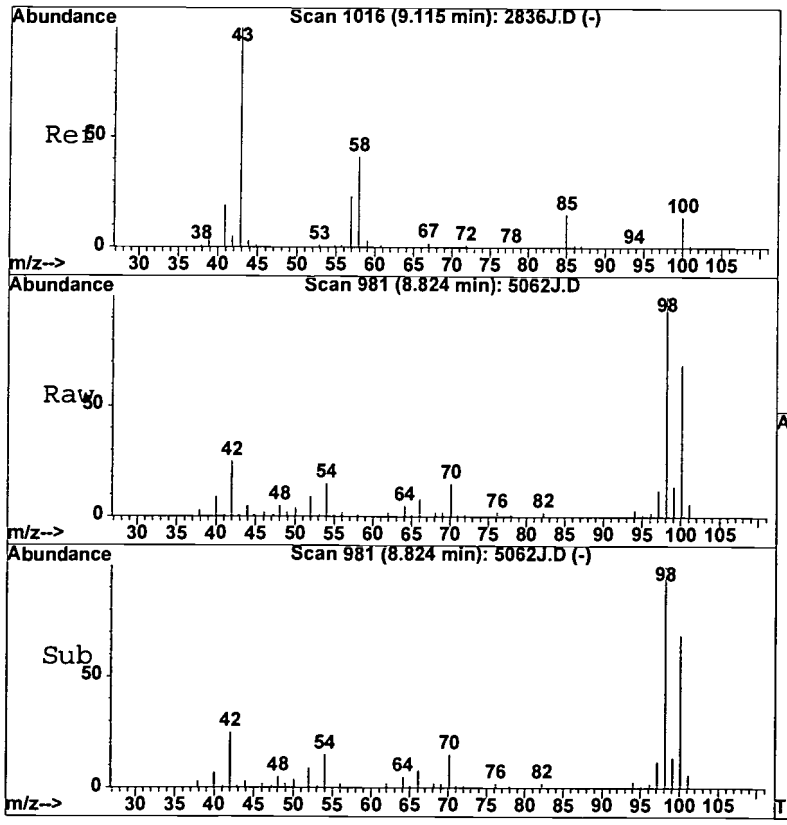


#15
2-butanone
Concen: 2.15 UG/L
RT: 3.87 min Scan# 394
Delta R.T. -0.01 min
Lab File: 5062J.D
Acq: 28 Sep 01 13:44

Tgt Ion: 43 Resp: 15172

Ion	Ratio	Lower	Upper
43	100		
72	1.9	0.0	0.0#

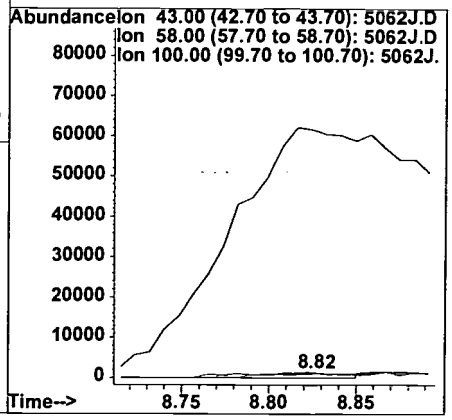




#32
4-methyl-2-pentanone
Concen: 0.15 UG/L
RT: 8.82 min Scan# 981
Delta R.T. 0.15 min
Lab File: 5062J.D
Acq: 28 Sep 01 13:44

Tgt Ion: 43 Resp: 3642

Ion	Ratio	Lower	Upper
43	100		
58	127.7	0.0	0.0#
100	21455.7	0.0	0.0#



Library Search Compound Report

Data File : F:\DATA\J092801\5062J.D
Acq On : 28 Sep 01 13:44
Sample : A567128 DK27547
Misc : 9/28/01
MS Integration Params: RTEINT.P

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

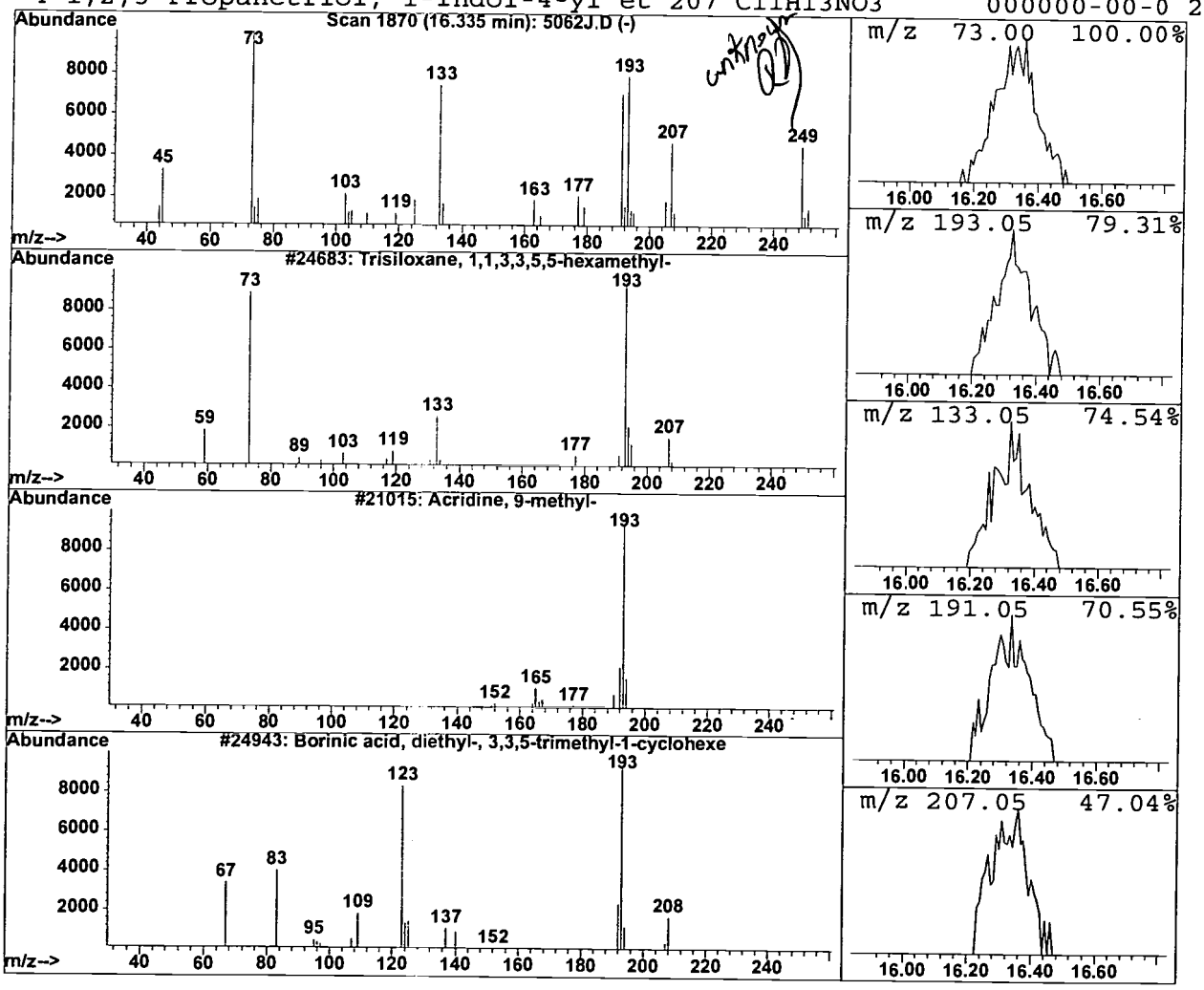
Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Trisiloxane, 1,1,3,3,5,5-hexam Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.33	1.16 UG/L	287182	1-CHLORO-2-BROMOPROPANE	9.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trisiloxane, 1,1,3,3,5,5-hexamethyl	208	C6H20O2Si3	001189-93-1	35
2	Acridine, 9-methyl-	193	C14H11N	000611-64-3	27
3	Borinic acid, diethyl-, 3,3,5-trime	208	C13H25BO	057387-76-5	25
4	1,2,3-Propanetriol, 1-indol-4-yl et	207	C11H13NO3	000000-00-0	22



Library Search Compound Report

Data File : F:\DATA\J092801\5062J.D
Acq On : 28 Sep 01 13:44
Sample : A567128 DK27547
Misc : 9/28/01
MS Integration Params: RTEINT.P

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

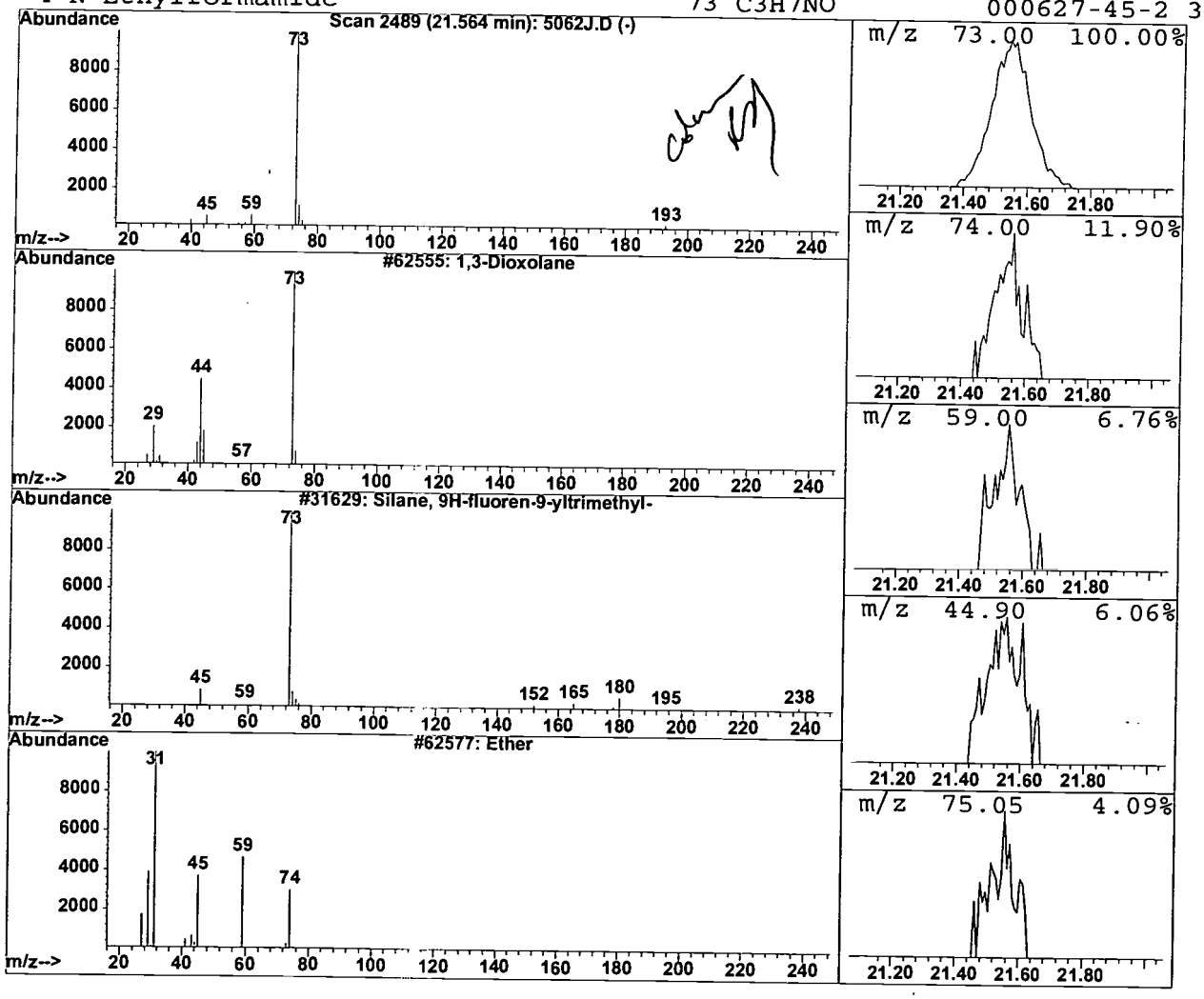
Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 1,3-Dioxolane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.56	1.23 UG/L	303445	1-CHLORO-2-BROMOPROPANE	9.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane	74	C3H6O2	000646-06-0	5
2	Silane, 9H-fluoren-9-yltrimethyl-	238	C16H18Si	007385-10-6	4
3	Ether	74	C4H10O	000060-29-7	3
4	N-Ethylformamide	73	C3H7NO	000627-45-2	3



Library Search Compound Report

Data File : F:\DATA\J092801\5062J.D
Acq On : 28 Sep 01 13:44
Sample : A567128 DK27547
Misc : 9/28/01
MS Integration Params: RTEINT.P

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

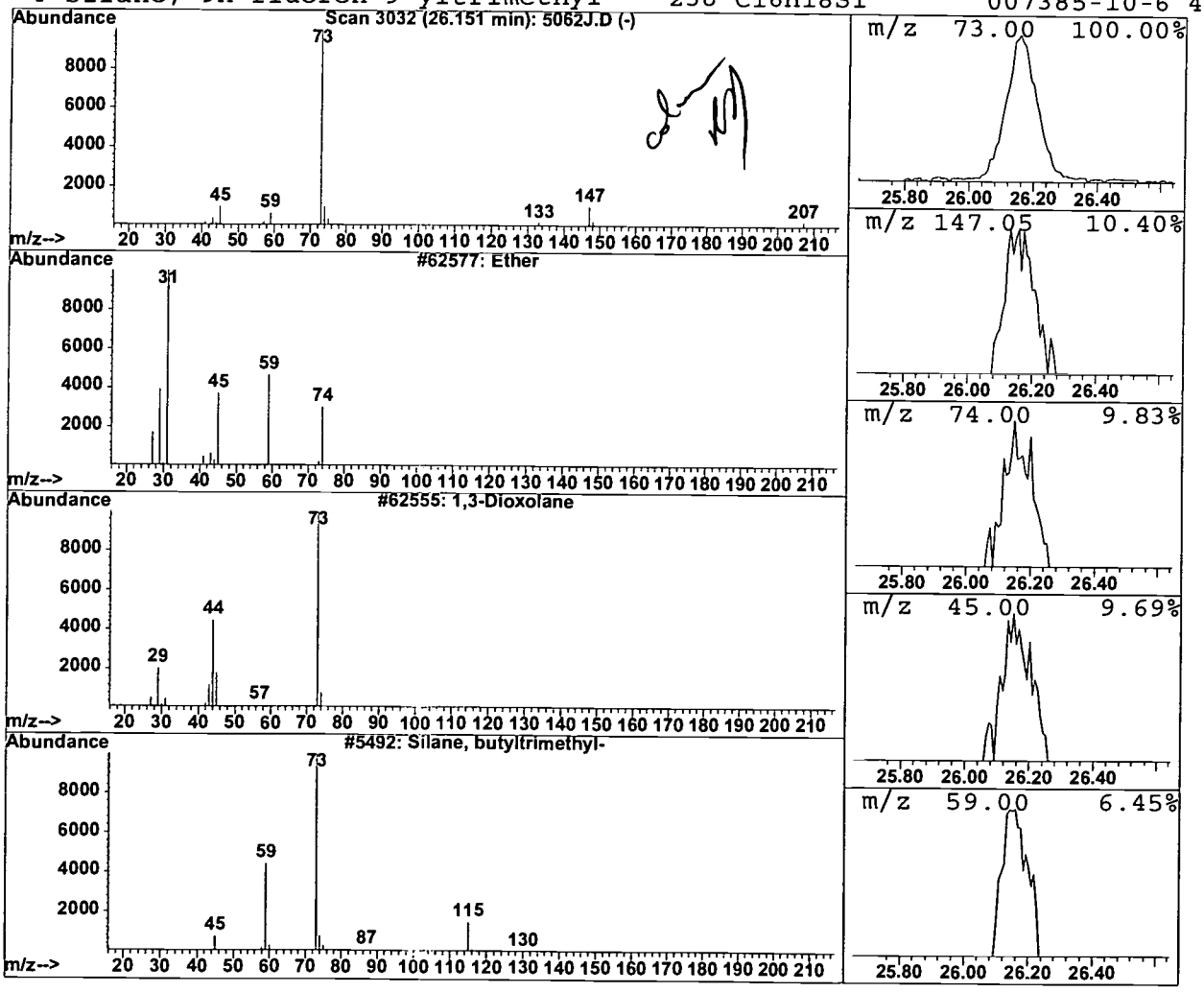
Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Library : C:\DATABASE\NBS75K.L

****

Peak Number 3 Ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.15	1.44 UG/L	355529	1-CHLORO-2-BROMOPROPANE	9.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether	74	C4H10O	000060-29-7	5
2	1,3-Dioxolane	74	C3H6O2	000646-06-0	4
3	Silane, butyltrimethyl-	130	C7H18Si	001000-49-3	4
4	Silane, 9H-fluoren-9-yltrimethyl-	238	C16H18Si	007385-10-6	4



R418579

QC Std# 239
Method# 296

QC Check STD

Heritage Environmental Services, Indianapolis
~~LCS01~~ Volatile QC Report-EPA Method 524
ICV Drinking Water

LCS Data File : 4440J. / Q1273800
LCS Date/Time : 082401 12:13
Spike Conc : 10 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Benzene	9.94	99.4	80.0	120.0
Carbon Tetrachloride	10.2	102.0	80.0	120.0
1,4-Dichlorobenzene	10.9	109.0	76.3	126.7
1,2-Dichloroethane	10	100.0	80.0	121.9
1,1-Dichloroethene	11	110.0	80.0	120.0
1,1,1-Trichloroethane	10.7	107.0	80.0	120.0
Trichloroethene	9.43	94.3	79.0	120.0
Vinyl Chloride	11.2	112.0	71.2	126.8
Bromobenzene	10.8	108.0	80.0	122.7
Bromodichloromethane	10.5	105.0	80.0	120.0
Bromoform	11.2	112.0	74.3	120.0
Bromomethane	11.1	111.0	77.1	129.1
Chlorobenzene	10.3	103.0	80.0	120.0
Dibromochloromethane	10.6	106.0	78.1	120.0
Chloroethane	11.9	119.0	80.0	124.5
Chloroform	10.9	109.0	80.0	120.0
Chloromethane	11.5	115.0	65.5	134.9
2-Chlorotoluene	10.6	106.0	80.0	123.9
4-Chlorotoluene	10.6	106.0	80.0	123.1
Dibromomethane	9.96	99.6	80.0	120.0
1,3-Dichlorobenzene	10.9	109.0	77.8	124.4
1,2-Dichlorobenzene	10.9	109.0	75.3	128.5
1,2-Dichloroethene(trans)	10.5	105.0	80.0	120.0
1,2-Dichloroethene(cis)	10.4	104.0	80.0	120.0
Methylene Chloride	10.8	108.0	80.0	121.9
1,1-Dichloroethane	10	100.0	80.0	125.8
1,1-Dichloropropene	9.87	98.7	80.0	120.0
1,2-Dichloropropane	10.2	102.0	80.0	120.0
1,3-Dichloropropane	10.2	102.0	80.0	120.0
cis-1,3-Dichloropropene	10.2	102.0	80.0	120.0
trans-1,3-Dichloropropene	9.26	92.6	80.0	120.0
2,2-Dichloropropane	10.4	104.0	80.0	124.5
Ethyl Benzene	10.5	105.0	80.0	120.0
Styrene	10.9	109.0	80.0	123.2
1,1,2-Trichloroethane	10.3	103.0	80.0	120.0
1,1,1,2-Tetrachloroethane	10.4	104.0	77.7	120.1
1,1,2,2-Tetrachloroethane	10.8	108.0	80.0	120.0
Tetrachloroethene	10.2	102.0	77.3	120.0
1,2,3-Trichloropropane	9.46	94.6	65.8	131.2

9-28-01

QC Std# 239
Method# 296

Heritage Environmental Services, Indianapolis
LCS01 Volatile QC Report-EPA Method 524
Drinking Water

LCS Data File : 4440J.
LCS Date/Time : 082401 12:13
Spike Conc : 10 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Toluene	10.2	102.0	80.0	120.0
o-Xylene	10.3	103.0	80.0	123.8
m,p-Xylene	20.6	103.0	80.0	122.8
Bromochloromethane	9.9	99.0	78.7	120.0
n-Butylbenzene	11.2	112.0	79.0	123.2
Dichlorodifluoromethane	12.3	123.0	41.6	128.6
Trichlorofluoromethane	10.4	104.0	80.0	125.7
Hexachlorobutadiene	12	120.0	51.9	146.7
Isopropylbenzene	10.3	103.0	60.0	136.4
p-Isopropyltoluene	10.8	108.0	78.2	120.8
Naphthalene	12.2	122.0	68.1	149.1
n-Propylbenzene	10.7	107.0	70.9	130.7
sec-Butylbenzene	11	110.0	70.6	131.0
t-Butylbenzene	10.9	109.0	59.6	137.8
1,2,3-Trichlorobenzene	12	120.0	66.0	149.0
1,2,4-Trichlorobenzene	12.1	121.0	66.4	140.8
1,2,4-Trimethylbenzene	11.4	114.0	77.9	132.1
1,3,5-Trimethylbenzene	11	110.0	70.6	135.4

* Advisory Limits Updated 3/95 , 80 - 120% minimum range.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J082401\4440J.D
Acq On : 24 Aug 01 12:13
Sample : QC CHECK STD
Misc : 8/24/01
MS Integration Params: rteint.p
Quant Time: Aug 24 18:35 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	5.70	96	1630693m	10.00 UG/L	0.00
22) 1-CHLORO-2-BROMOPROPANE	9.68	77	838855m	10.00 UG/L	-0.02
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	4.99	65	361048	5.05 UG/L	-0.02
Spiked Amount 5.000			Recovery	= 101.00%	
33) Toluene-d8	8.92	98	1407160m	4.60 UG/L	0.07
Spiked Amount 5.000			Recovery	= 92.00%	
51) 4-Bromofluorobenzene	15.25	95	793355	4.76 UG/L	0.02
Spiked Amount 5.000			Recovery	= 95.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	1568785	12.25 UG/L	100
3) Chloromethane	1.39	50	961252	11.54 UG/L	100
4) Vinyl Chloride	1.46	62	920180	11.20 UG/L	97
5) Bromomethane	1.67	94	607881	11.07 UG/L	95
6) Chloroethane	1.73	64	562505	11.85 UG/L	95
7) Trichlorofluoromethane	1.91	101	2133374	10.43 UG/L	99
8) 1,1-Dichloroethene	2.25	96	892771	10.95 UG/L #	52
9) Acetone	2.27	43	21097m	3.24 UG/L	100
10) Methylene Chloride	2.61	84	583476	10.75 UG/L	80
11) 1,2-Dichloroethene(trans)	2.85	96	926978	10.48 UG/L #	58
12) 1,1-Dichloroethane	3.23	63	1875624	10.02 UG/L	100
14) 2,2-Dichloropropane	3.86	77	2281817	10.35 UG/L	100
15) 2-butanone	3.84	43	27269m	3.28 UG/L	100
16) 1,2-Dichloroethene(cis)	3.84	96	889902	10.36 UG/L #	35
17) Chloroform	4.25	83	2078266	10.91 UG/L	91
18) Tetrahydrofuran	2.62	42	28297m	3.24 UG/L	100
19) Bromochloromethane	4.15	128	250233	9.90 UG/L #	1
20) 1,1,1-Trichloroethane	4.51	97	2378720	10.67 UG/L	94
23) 1,1-Dichloropropene	4.79	110	486869	9.87 UG/L	100
24) Carbon Tetrachloride	4.79	117	2053837	10.18 UG/L	96
25) 1,2-Dichloroethane	5.12	62	833503	10.03 UG/L	97
26) Benzene	5.17	78	3129013	9.94 UG/L	100
27) Trichloroethene	6.34	130	1040504	9.43 UG/L	93
28) 1,2-Dichloropropane	6.75	76	447212	10.23 UG/L	100
29) Bromodichloromethane	7.31	83	1430914	10.48 UG/L	99
30) Dibromomethane	6.95	93	332726	9.96 UG/L	86
31) cis-1,3-Dichloropropene	8.26	75	1173772	10.21 UG/L	100
34) Toluene	9.06	91	3635299	10.21 UG/L	100
36) trans-1,3-Dichloropropene	9.50	75	756225	9.26 UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\DATA\J082401\4440J.D
Acq On : 24 Aug 01 12:13
Sample : QC CHECK STD
Misc : 8/24/01
MS Integration Params: rteint.p
Quant Time: Aug 24 18:35 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: DWJ.RES

Quant Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration
DataAcq Meth : DWJ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,2-Trichloroethane	9.92	97	386087	10.26 UG/L	98
38) 1,3-Dichloropropane	10.28	76	749393	10.17 UG/L	100
39) Tetrachloroethene	10.28	166	1467303	10.16 UG/L	99
40) Dibromochloromethane	10.79	129	630173	10.62 UG/L	100
41) 1,2-Dibromomethane	11.04	107	454217	10.30 UG/L	97
42) Chlorobenzene	12.30	112	2105853	10.33 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.51	131	829676	10.44 UG/L	100
44) Ethyl Benzene	12.64	106	1339134	10.52 UG/L	79
45) m,p-Xylene	12.94	106	3338002	20.56 UG/L	78
46) o-Xylene	13.93	106	1461455	10.34 UG/L	80
47) Styrene	13.95	104	2192879	10.87 UG/L #	54
48) Bromoform	14.32	173	318167	11.17 UG/L	97
49) Isopropylbenzene	14.91	105	5333796	10.25 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.70	83	449465	10.83 UG/L	97
52) 1,2,3-Trichloropropane	15.76	75	310324	9.46 UG/L #	85
53) n-Propylbenzene	16.01	92	802449	10.65 UG/L	96
54) Bromobenzene	15.58	77	2213134	10.76 UG/L #	77
55) 1,3,5-Trimethylbenzene	16.54	105	4225595	11.02 UG/L	100
56) 2-Chlorotoluene	16.16	126	956915	10.57 UG/L	100
57) 4-Chlorotoluene	16.45	126	902927	10.63 UG/L	100
58) t-Butylbenzene	17.37	119	4361067	10.85 UG/L	100
59) 1,2,4-Trimethylbenzene	17.52	105	4051002	11.37 UG/L	100
60) sec-Butylbenzene	17.97	105	6735012	10.98 UG/L	100
61) p-Isopropyltoluene	18.43	119	4908991	10.75 UG/L	100
62) 1,3-Dichlorobenzene	18.17	146	1697587	10.91 UG/L	100
63) 1,4-Dichlorobenzene	18.44	146	1628038	10.93 UG/L	100
64) n-Butylbenzene	19.55	92	3317236	11.19 UG/L	95
65) 1,2-Dichlorobenzene	19.41	146	1243798	10.85 UG/L	100
66) 1,2-Dibromochloropropane	21.60	157	69391	10.96 UG/L	100
67) 1,2,4-Trichlorobenzene	23.95	180	1009493	12.08 UG/L	100
68) Hexachlorobutadiene	24.48	225	1463112	11.99 UG/L	100
69) Naphthalene	24.53	128	684512	12.20 UG/L	100
70) 1,2,3-Trichlorobenzene	25.12	180	709432	12.00 UG/L	100

(#) = qualifier out of range (m) = manual integration

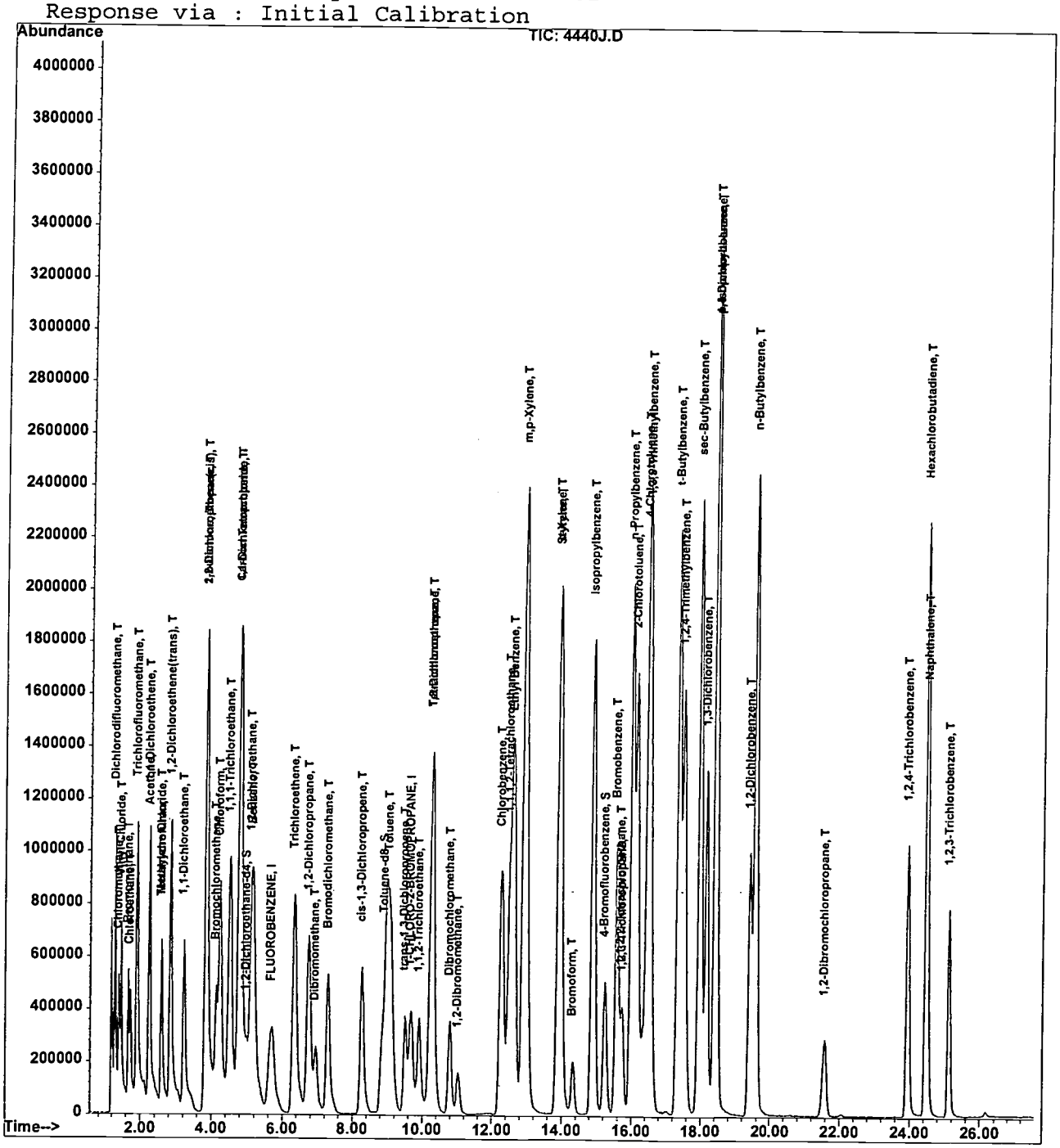
Quantitation Report

Data File : C:\HPCHEM\DATA\J082401\4440J.D
Acq On : 24 Aug 01 12:13
Sample : QC CHECK STD
Misc : 8/24/01
MS Integration Params: rteint.p
Quant Time: Aug 24 18:35 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS
Last Update : Mon Apr 09 06:50:38 2001
Response via : Initial Calibration



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: 5093H.D DFTPP Injection Date: 09/13/01

Instrument ID: #8 DFTPP Injection Time: 00:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	35.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	57.7
70	Less than 2.0% of mass 69	0.4 (0.8)1
127	25.0 - 75.0% of mass 198	59.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	16.5
365	Greater than 0.75% of mass 198	3.0
441	Present, but less than mass 443	12.2
442	40.0 - 110.0% of mass 198	81.7
443	15.0 - 24.0% of mass 442	16.6 (20.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

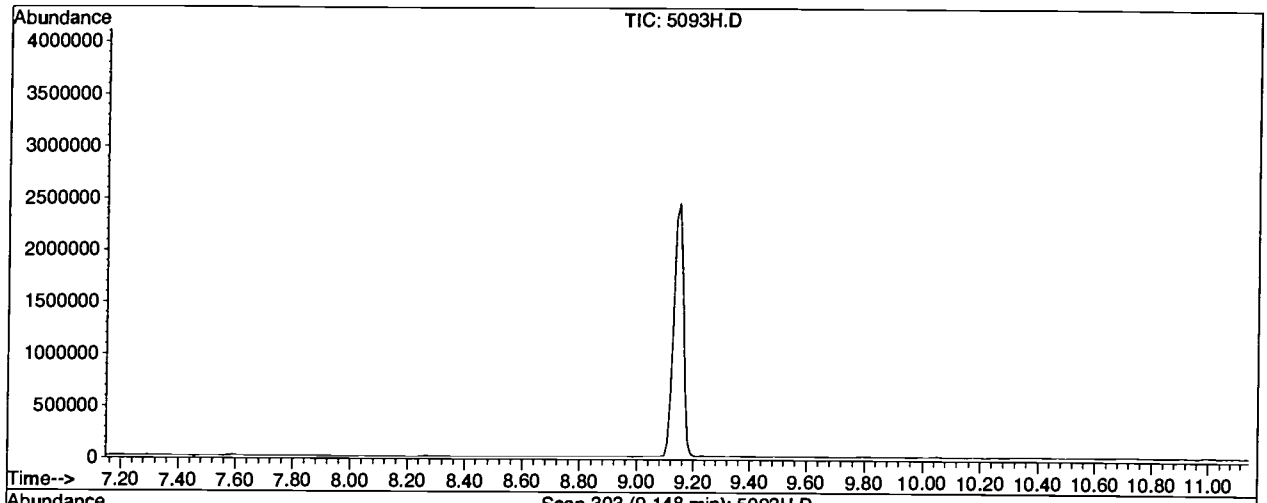
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD 2.0	SSTD 2.0	5094H.D	09/13/01	01:07
02	SSTD 0.1	SSTD 0.1	5095H.D	09/13/01	01:59
03	SSTD 0.5	SSTD 0.5	5096H.D	09/13/01	02:50
04	SSTD 1.0	SSTD 1.0	5097H.D	09/13/01	03:42
05	SSTD 5.0	SSTD 5.0	5098H.D	09/13/01	04:33
06	SSTD 10	SSTD 10	5099H.D	09/13/01	05:25
07	SSTD 0.02	SSTD 0.02	5100H.D	09/13/01	06:16
08	SBLK2300-740	SBLK2300-740	5101H.D	09/13/01	07:08
09	LCS #984	LCS #984	5102H.D	09/13/01	07:59
10	A564988	A564988	5103H.D	09/13/01	08:51
11	A564989	A564989	5104H.D	09/13/01	09:43
12	A565000	A565000	5105H.D	09/13/01	10:34
13	A565001	A565001	5106H.D	09/13/01	11:26
14	A565002	A565002	5107H.D	09/13/01	12:17

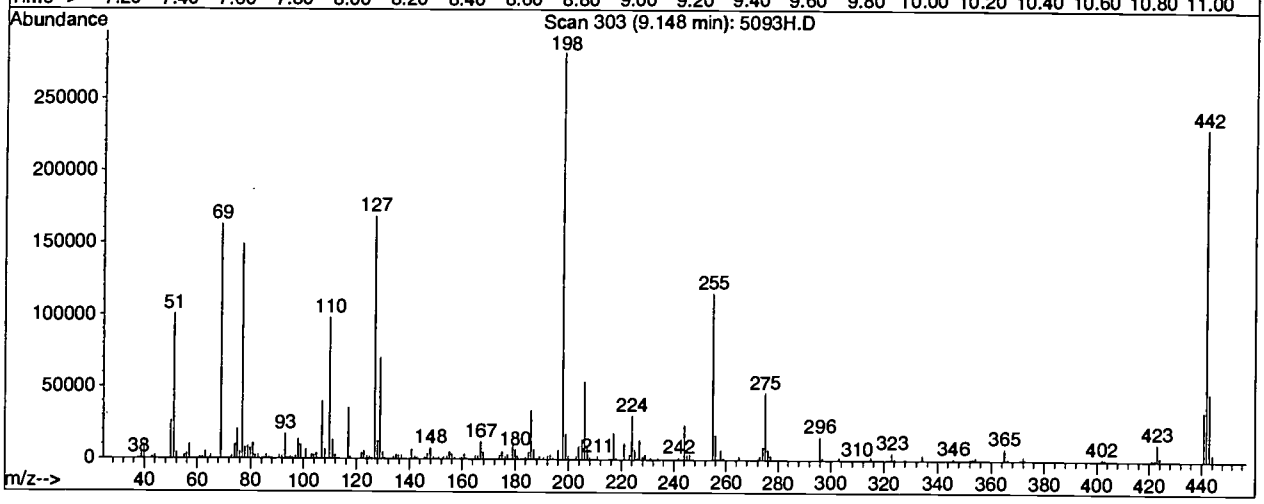
✓ LAS 9-14-1

DFTPP

Data File : K:\DATA\H091301\5093H.D
Acq On : 13 Sep 01 12:38 am
Sample : DFTPP
Misc :
MS Integration Params: rteint.p
Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00





Spectrum Information: Scan 303

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.7	100800	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.7	162944	PASS
70	69	0.00	2	0.8	1229	PASS
127	198	10	80	59.7	168512	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	282432	PASS
199	198	5	9	6.3	17816	PASS
275	198	10	60	16.5	46512	PASS
365	198	1	100	3.0	8348	PASS
441	443	0.01	100	73.4	34480	PASS
442	198	50	150	81.7	230720	PASS
443	442	15	24	20.4	46960	PASS

✓ 4PS 9-14-1

5093H.D DFTPPI.M Fri Sep 14 00:44:32 2001

Scan 303 (9.148 min): 5093H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.95	1002	54.95	2542	69.95	1229	81.75	2628
38.95	5162	55.85	3767	71.05	605	82.85	2755
39.95	12585	56.95	10393	72.95	2219	84.05	595
41.05	812	57.85	770	74.05	9795	84.85	1143
41.95	681	60.85	1581	74.95	20696	85.85	2963
42.95	1693	61.85	1716	75.95	5054	86.85	1175
43.95	2535	62.95	5332	76.95	149184	87.85	982
48.85	1034	63.95	509	77.95	8029	88.85	512
49.95	26456	64.95	2747	78.95	8814	90.85	2616
50.95	100800	66.95	1030	79.85	7719	91.85	2099
51.95	4576	68.95	162944	80.85	10839	92.95	17448

Scan 303 (9.148 min): 5093H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.85	1084	104.85	4221	120.15	526	130.75	750
94.95	1663	106.85	39976	120.85	566	132.05	777
95.85	991	107.95	6889	121.95	4217	132.95	566
96.95	2273	109.85	98272	122.85	5564	133.95	1867
97.95	13993	110.85	13359	123.95	1921	134.95	3229
98.85	9863	111.85	2626	124.85	1919	135.75	2649
99.85	972	112.85	515	125.75	1080	136.95	2677
100.85	6767	114.75	720	126.85	168512	140.85	6908
101.95	654	116.85	35600	127.95	12485	142.05	1988
102.95	3225	117.75	1601	128.85	70360	142.95	1333
103.85	2400	118.95	814	129.85	4870	145.85	1440

Scan 303 (9.148 min): 5093H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
146.85	3931	159.05	856	169.85	863	180.85	2394
147.95	7939	159.85	1537	170.85	586	182.75	696
149.05	1794	160.85	3777	171.95	1180	183.85	1424
150.05	534	161.85	910	172.85	1376	184.95	4776
150.95	1468	162.75	562	173.85	2580	185.95	34136
152.75	1780	163.85	670	174.85	5466	186.95	7016
153.95	2137	165.05	2459	175.95	1962	187.95	1009
154.95	5217	165.95	2200	176.85	3179	189.05	2236
155.95	3739	166.95	12227	177.85	1253	189.75	584
157.05	1523	167.85	5105	178.95	9988	190.55	1528
158.15	740	168.95	1228	179.95	6768	191.95	2299

Scan 303 (9.148 min): 5093H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
192.95	3206	206.95	9612	223.95	30832	240.85	919
194.05	1513	207.95	1611	224.95	6825	241.95	1651
195.95	6429	208.85	638	225.95	1248	244.05	24040
197.85	282432	209.65	583	226.85	14006	245.05	3267
198.95	17816	210.85	2325	227.95	2033	245.95	3787
199.85	2705	215.05	639	228.85	3711	246.95	793
201.75	1019	215.85	1015	230.95	1592	249.05	645
202.85	2259	216.85	18608	233.75	1313	254.95	115816
203.95	9203	217.85	1409	234.85	1016	255.95	17112
204.95	14365	220.95	11546	235.95	681	256.95	1441
205.95	54216	223.05	3607	236.85	1169	257.85	6854

Scan 303 (9.148 min): 5093H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.95	1448	292.75	969	327.75	934	372.75	746
265.05	2577	293.75	572	333.95	3598	389.85	568
271.95	513	295.95	16211	335.15	706	401.95	1609
272.85	2758	296.95	1737	345.95	1453	403.05	1297
273.95	8935	303.05	2103	352.15	1127	403.85	520
274.95	46512	303.85	541	352.95	1417	420.85	1511
275.95	7220	309.85	569	353.95	2275	422.05	1311
276.95	3078	314.95	2293	364.95	8348	422.95	12207
278.05	1087	315.85	1034	366.05	1269	423.95	2609

282.85	997	323.05	4965	371.05	882	425.15	678
285.05	625	324.05	1118	372.05	2849	440.95	34480

Scan 303 (9.148 min): 5093H.D
DFTPP

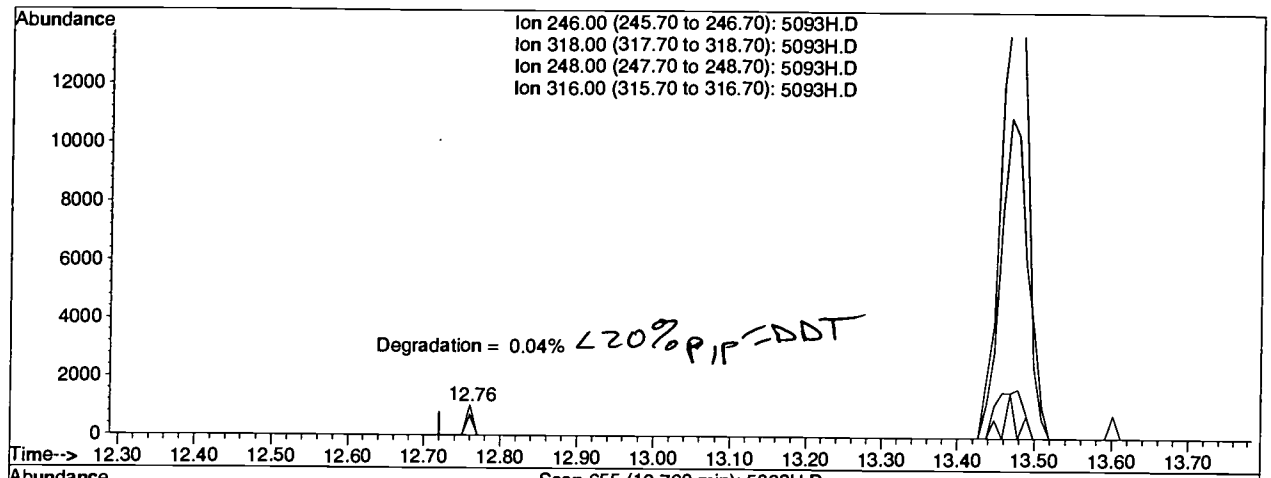
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
441.95	230720						
442.95	46960						
444.05	5034						

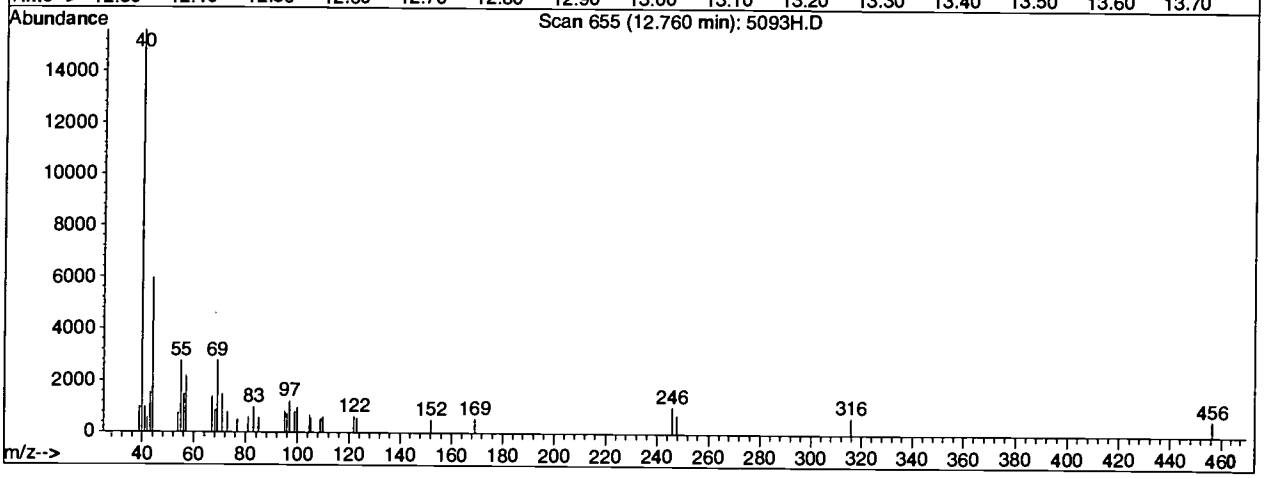
Quantitation Report

Data File : K:\DATA\H091301\5093H.D
Acq On : 13 Sep 01 12:38 am
Sample : DFTPP
Misc :
Quant Time: Sep 14 0:44 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5093H.D

(2) p,p'-DDE (M)

12.76min 0.00ug/ml m

response 639

Ion	Exp%	Act%
246.00	100	100
318.00	64.70	0.00#
248.00	61.60	0.00#
316.00	51.20	0.00#

✓ AS 9.14.1

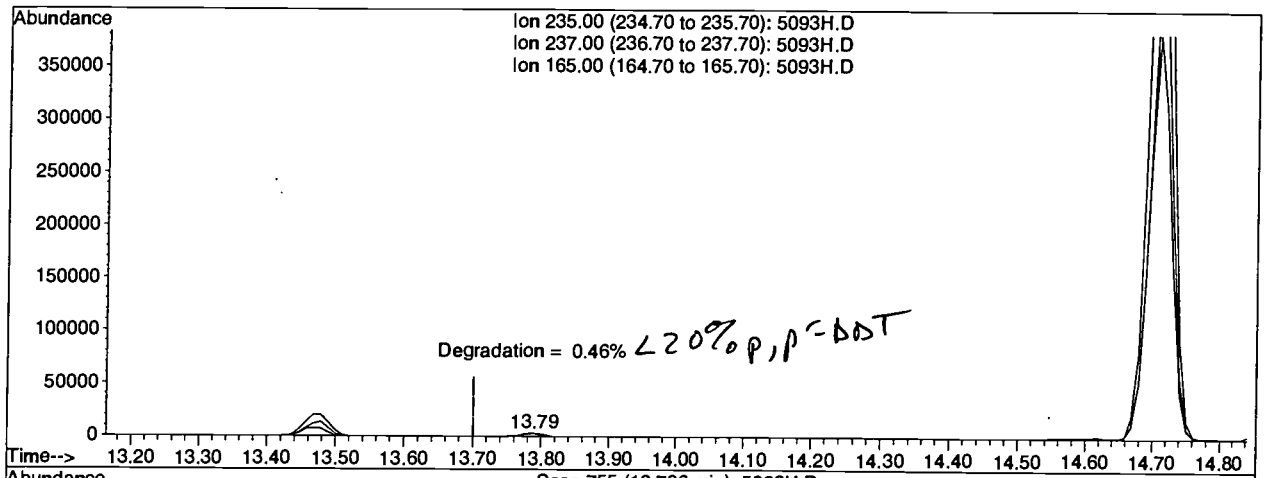
5093H.D DFTPPI.M Fri Sep 14 00:45:27 2001

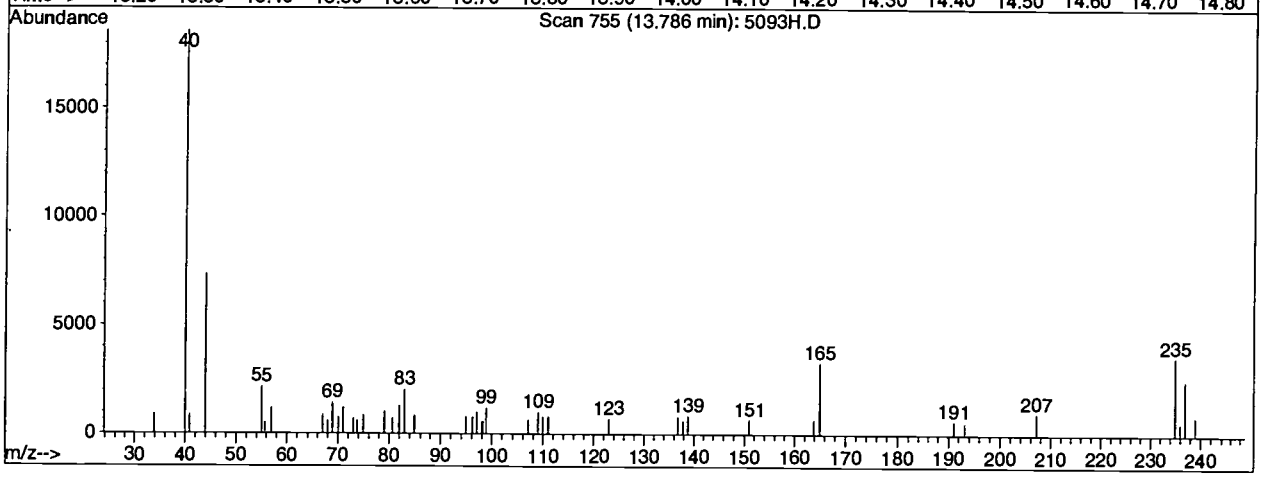
Quantitation Report

Data File : K:\DATA\H091301\5093H.D
Acq On : 13 Sep 01 12:38 am
Sample : DFTPP
Misc :
Quant Time: Sep 14 0:44 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5093H.D

(4) p,p'-DDD (M)

13.79min 0.03ug/ml m

response 7208

Ion	Exp%	Act%
235.00	100	100
237.00	66.60	733.60#
165.00	48.60	264.80#
0.00	0.00	0.00

✓ LKS 9-14-1

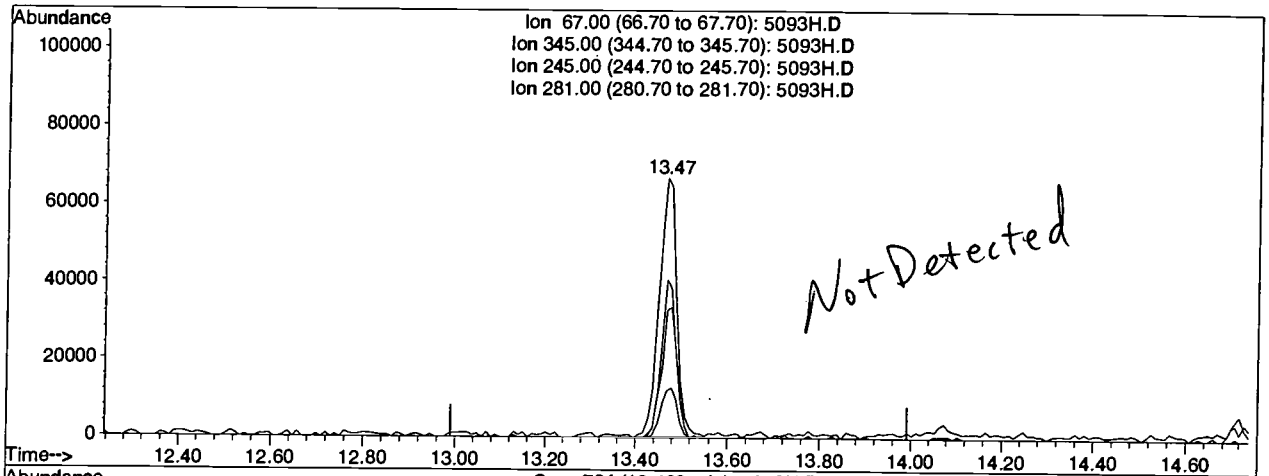
5093H.D DFTPPI.M Fri Sep 14 00:45:52 2001

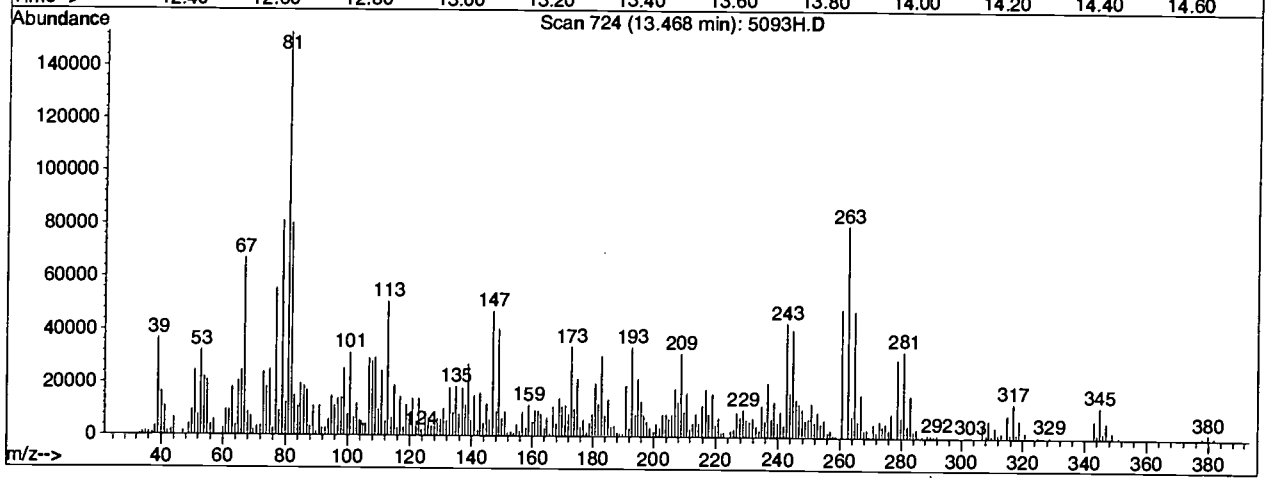
Quantitation Report

Data File : K:\DATA\H091301\5093H.D
Acq On : 13 Sep 01 12:38 am
Sample : DFTPP
Misc :
Quant Time: Sep 14 0:44 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5093H.D

(5) Endrin aldehyde (M)

13.47min 4.81ug/ml

response 184813

Ion	Exp%	Act%
67.00	100	100
345.00	63.90	17.85#
245.00	49.00	51.80
281.00	46.90	44.82

✓ MS 9-14-1

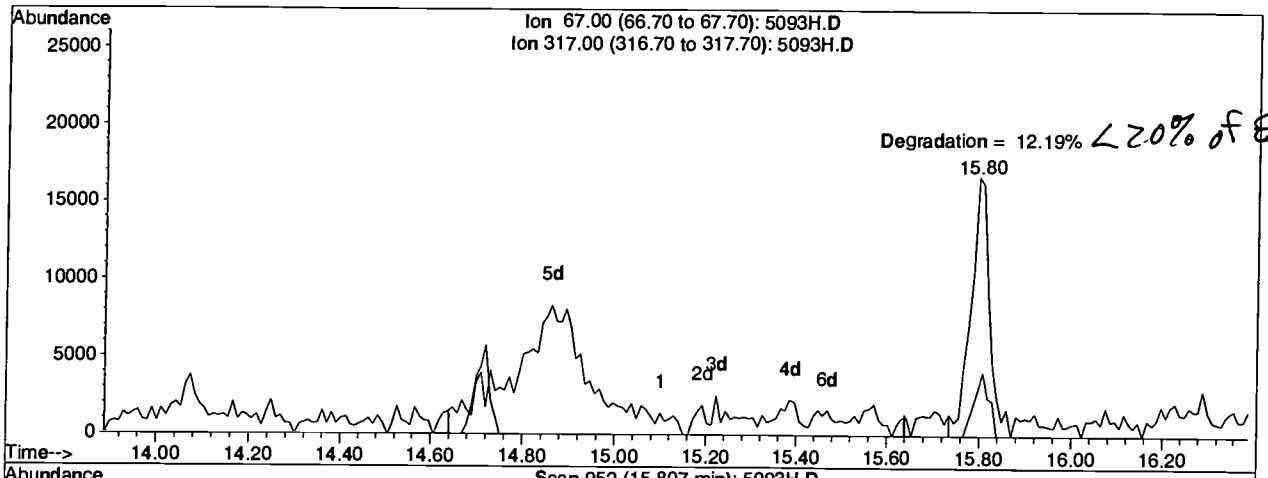
5093H.D DFTPPI.M Fri Sep 14 00:46:15 2001

Quantitation Report

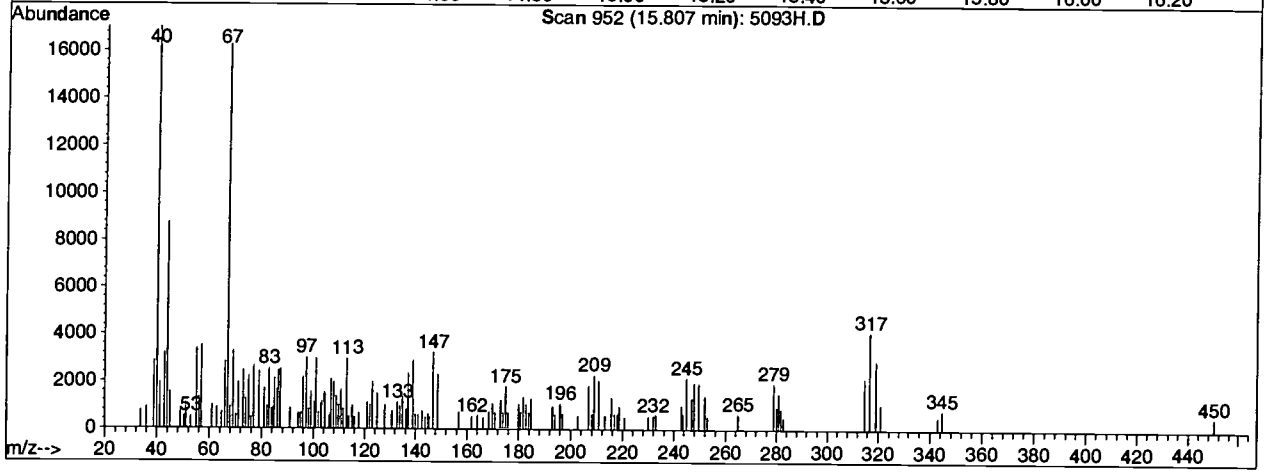
Data File : K:\DATA\H091301\5093H.D
Acq On : 13 Sep 01 12:38 am
Sample : DFTPP
Misc :
Quant Time: Sep 14 0:44 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Single Level Calibration



< 20% of Endrin



TIC: 5093H.D

(7) Endrin Ketone

15.10min 0.00ug/ml

response 3309

Ion	Exp%	Act%
67.00	100	100
317.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

✓ LAO 9/14/1

5093H.D DFTPPI.M Fri Sep 14 00:46:41 2001

Response Factor Report GC/MS Ins

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

⊛: <10% of Total Targets >30%RSD.
*: Cal Passes For test 512.3, 512.4, 512.6.

Calibration Files

2.0	=5094H.D	0.1	=5095H.D	0.5	=5096H.D
1.0	=5097H.D	5.0	=5098H.D	10.0	=5099H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
1)I	ACENAPHTHENE-D10	----------ISTD----------							
2)M	Isophorone	1.6064	1.4544	1.4884	1.5428	1.4955	1.4946	1.5137	3.5#
3)S	1,3-dimethyl-2-nitr	0.3164	0.3470	0.3218	0.4219	0.1643	0.2886	0.3100	27.3#
4)M	Dichlorvos	1.1030	0.7834	0.7188	0.9184	0.9808	1.0343	0.9231	16.0#
5)M	Hexachlorocyclopent	0.1812	0.1449	0.1522	0.1434	0.1757	0.1823	0.1633	11.3#
6)M	EPTC	0.6071	0.6786	0.5324	0.6090	0.5397	0.5499	0.5861	9.6#
7)M	Mevinphos	0.9208	0.5469	0.5167	0.6300	0.7774	0.8858	0.7129	24.3#
8)M	Butylate	0.3851	0.4238	0.3498	0.3884	0.3449	0.3443	0.3727	8.6#
9)M	Vernolate	0.6791	0.7282	0.5820	0.7198	0.6380	0.6443	0.6652	8.3#
10)m	Terrazole	0.1426	0.1025	0.0906	0.1106	0.1415	0.1424	0.1217	19.2#
11)M	Dimethylphthalate	1.3575	1.3439	1.1865	1.3331	1.2636	1.2186	1.2839	5.6#
12)M	Pebulate	0.6944	0.6167	0.6255	0.6943	0.6596	0.6481	0.6564	5.1#
13)M	2,6-Dinitrotoluene	0.2570	0.2065	0.1862	0.1863	0.2272	0.2399	0.2172	13.4#
14)M	Acenaphthylene	1.8124	1.8238	1.6847	1.8709	1.7415	1.6805	1.7690	4.4#
15)M	Chloroneb	0.3987	0.3893	0.3836	0.4275	0.4086	0.3765	0.3974	4.7#
16)M	2-Chlorobiphenyl	0.8868	0.8535	0.8375	0.9759	0.8839	0.7850	0.8704	7.3#
17)M	Pentachlorobenzene	0.1954	0.1850	0.1886	0.2039	0.2096	0.1891	0.1953	4.9#
18)M	Tebuthiuron	0.1800	2.5215	0.0650	0.0740	0.1494	0.2082	0.5330	183.1#
19)M	2,4-Dinitrotoluene	0.2049	0.0998	0.1198	0.1156	0.1845	0.2109	0.1559	31.8# ⊛
20)M	Molinate	0.8600	0.9239	0.7484	0.8515	0.8173	0.8104	0.8352	7.0#
21)M	Diethylphthalate	1.4044	1.1734	1.1660	1.3553	1.3851	1.3191	1.3006	8.1#
22)M	Fluorene	1.0345	0.9981	0.9898	1.0599	1.0601	1.0157	1.0263	2.9#
23)M	Propachlor	0.7755	0.6112	0.5926	0.7076	0.7732	0.7426	0.7004	11.5#
24)M	Ethoprop	0.3320	0.2288	0.2083	0.2545	0.3267	0.3158	0.2777	19.4#
25)M	Cycloate	0.5898	0.5783	0.5008	0.5820	0.5837	0.5503	0.5642	6.0#
26)M	Chlorpropham	0.4063	0.3891	0.3218	0.3525	0.4105	0.4057	0.3810	9.5#
27)M	Trifluralin	0.2022	0.0940	0.0938	0.1315	0.1879	0.1932	0.1504	33.5#
28)M	alpha-BHC	0.2076	0.1969	0.1794	0.2508	0.2387	0.2180	0.2152	12.3#
29)M	2,3-Dichlorobipheny	0.4898	0.4915	0.4240	0.4887	0.5054	0.4779	0.4795	6.0#
30)I	PHENANTHRENE-D10	----------ISTD----------							
31)M	Hexachlorobenzene	0.2907	0.3578	0.3083	0.3127	0.2871	0.2629	0.3033	10.6#
32)M	Atraton	0.1969	0.1159	0.0877	0.1558	0.1964	0.2125	0.1609	31.3#
33)M	Prometon	0.2349	0.1519	0.1528	0.1814	0.2263	0.2120	0.1932	18.9#
34)M	Simazine	0.1572	0.1374	0.1326	0.1600	0.1617	0.1512	0.1500	8.2#
35)M	Atrazine	0.2567	0.1642	0.1989	0.2359	0.2542	0.2471	0.2262	16.4#
36)M	beta-BHC	0.1567	0.1220	0.1563	0.2204	0.1554	0.1491	0.1600	20.3#
37)M	Propazine	0.2479	0.1970	0.1927	0.2488	0.2517	0.2338	0.2286	11.8#
38)M	Pentachlorophenol	0.0797		0.0347	0.0467	0.0742	0.0870	0.0645	35.0# ⊛
39)M	g-BHC (Lindane)	0.2132	0.1755	0.1812	0.2207	0.2118	0.1854	0.1980	9.8#
40)M	Terbufos	0.2949	0.1968	0.2126	0.2713	0.2960	0.2627	0.2557	16.4#
41)M	Pronamide	0.4672	0.2413	0.2983	0.3735	0.4571	0.4549	0.3820	24.9#
42)M	Diazinon	0.3412	0.3540	0.3159	0.3407	0.3218	0.2989	0.3287	6.1#
43)M	Phenanthrene	1.2257	1.1085	1.1295	1.3096	1.2427	1.1607	1.1961	6.4#
44)M	Chlorothalonil	0.2038	0.1830	0.1534	0.1709	0.2151	0.2058	0.1887	12.6#
45)M	Disulfoton	1.0407	0.7390	0.7926	1.0037	1.0111	0.9255	0.9187	13.7#

(#) = Out of Range (Advisory for non CCC, SPCC)

Response Factor Report GC/MS Ins

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

Calibration Files

2.0	=5094H.D	0.1	=5095H.D	0.5	=5096H.D
1.0	=5097H.D	5.0	=5098H.D	10.0	=5099H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
46)M	Anthracene	1.1241	1.1085	1.0492	1.1858	1.1588	1.0374	1.1106	5.3#

47)m	Methyl paraoxon	0.2058	0.1493	0.1037	0.1409	0.1835	0.2362	0.1699	28.3#
48)M	Terbacil	0.2669	0.1506	0.1470	0.2206	0.2812	0.2895	0.2260	28.5#
49)M	delta-BHC	0.1467	0.1916	0.1252	0.1616	0.1478	0.1421	0.1525	14.7#
50)M	Trichlorobiphenyl	0.3338	0.3753	0.2893	0.3585	0.3408	0.3141	0.3353	9.2#
51)M	Acetochlor	0.1938	0.1443	0.1677	0.2204	0.2141	0.1843	0.1874	15.3#
52)M	Metribuzin	0.1965	0.1078	0.1077	0.1369	0.1983	0.2123	0.1599	30.0#
53)M	Alachlor	0.3043	0.2359	0.2186	0.2947	0.2977	0.2645	0.2693	13.3#
54)M	Simetryn	0.2575	0.1506	0.1644	0.2301	0.2774	0.2753	0.2259	24.7#
55)M	Ametryn	0.2171	0.1347	0.1354	0.2277	0.2574	0.2290	0.2002	26.1#
56)M	Heptachlor	0.4060	0.4757	0.3457	0.4303	0.3906	0.3425	0.3985	12.8#
57)M	Prometryn	0.2571	0.1950	0.1926	0.2386	0.2669	0.2512	0.2336	13.8#
58)M	Terbutryn	0.2300	0.1472	0.1472	0.2184	0.2485	0.2378	0.2049	22.3#
59)M	Di-n-butyl phthalat	2.4863	2.6048	1.9534	2.3867	2.5202	2.2698	2.3702	9.9#
60)M	Bromacil	0.1812	0.0972	0.0708	0.0736	0.1153	0.2045	0.1238	45.6#
61)M	Tetrachlorobiphenyl	0.2228	0.2479	0.1990	0.2193	0.2246	0.2058	0.2199	7.7#
62)M	Aldrin	0.3137	0.3718	0.2968	0.3626	0.3231	0.2699	0.3230	12.0#
63)M	Metolachlor	0.8536	0.6407	0.5802	0.7560	0.8559	0.7844	0.7451	15.2#
64)M	Chlorpyrifos	0.0562	0.0417	0.0372	0.0483	0.0609	0.0567	0.0502	18.6#
65)M	DCPA	0.1995	0.1442	0.1778	0.2071	0.2290	0.2131	0.1951	15.4#
66)M	Cyanazine	0.0151	0.0109	0.0040	0.0193	0.0164	0.0173	0.0138	40.2#
67)M	Triadimefon	0.4156	0.2118	0.1983	0.2110	0.4725	0.5088	0.3363	43.1#
68)M	Diphenamid	0.5379	0.3763	0.3811	0.5032	0.5923	0.5591	0.4916	18.8#
69)M	MGK 264-A	0.3493	0.3631	0.2325	0.3553	0.3265	0.3052	0.3220	15.1#
70)M	Pendimethalin	0.1854	0.0933	0.0642	0.1056	0.1956	0.2034	0.1412	42.8#
71)M	MGK 264-B	0.2593	0.2889	0.2352	0.2445	0.2853	0.2512	0.2607	8.4#
72)M	Heptachlor epoxide	0.2020	0.2312	0.1992	0.2326	0.2022	0.1764	0.2073	10.3#
73)M	Pentachlorobiphenyl	0.1475	0.1849	0.1205	0.1823	0.1664	0.1534	0.1592	15.2#
74)M	g-Chlordane	0.1143	0.0904	0.0933	0.1262	0.1320	0.1231	0.1132	15.5#
75)M	Stirofos	0.3185	0.2224	0.2127	0.2257	0.3550	0.3825	0.2861	26.2#
76)M	Butachlor	0.2628	0.1738	0.1564	0.2039	0.2744	0.2618	0.2222	22.9#
77)M	a-Chlordane	0.1108	0.1194	0.1028	0.1180	0.1241	0.1095	0.1141	6.8#
78)M	Endosulfan I	0.0710	0.0662	0.0579	0.0848	0.0731	0.0685	0.0703	12.6#
79)M	trans-Nonachlor	0.1280	0.1613	0.1102	0.1498	0.1378	0.1303	0.1362	13.1#
80)M	Fenamiphos	0.0431	0.0200	0.0073	0.0198	0.0384	0.0607	0.0316	61.5#
81)M	Napropamide	0.6646	0.4093	0.3752	0.5804	0.7262	0.7250	0.5801	26.8#
82)M	Tricyclazole	0.0363	0.0063	0.0262	0.0171	0.0173	0.0325	0.0226	49.4#
83)M	p,p'-DDE	0.1986	0.2262	0.1577	0.2139	0.2156	0.2021	0.2024	11.9#
84)M	Hexachlorobiphenyl	0.1409	0.1465	0.1139	0.1540	0.1612	0.1456	0.1437	11.3#
85)I	CHRYSENE-D12	----------ISTD----------							
86)M	Pyrene	2.7199	2.5851	2.4083	2.7589	2.6262	2.6082	2.6178	4.7#
87)M	Dieldrin	1.1284	1.4846	0.9936	1.1485	1.0661	0.9540	1.1292	16.8#
88)M	Carboxin	1.0502	0.4916	0.6779	0.8639	1.0052	1.0668	0.8592	27.0#
89)M	Endrin	0.3111	0.2932	0.2463	0.2083	0.2616	0.2364	0.2595	14.6#
90)M	Chlorobenzilate	0.9895	0.2234	0.4602	0.5289	0.9733	1.0510	0.7044	49.0#

(#) = Out of Range (Advisory for non CCC, SPCC)

Response Factor Report GC/MS Ins

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

Calibration Files

2.0	=5094H.D	0.1	=5095H.D	0.5	=5096H.D
1.0	=5097H.D	5.0	=5098H.D	10.0	=5099H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
91)M	Endosulfan II	0.1268	0.0385	0.1055	0.1306	0.1250	0.1166	0.1072	32.5#
92)M	p,p'-DDD	0.9642	1.0227	0.6652	0.9174	0.9134	0.9168	0.8999	13.6#
93)M	Endrin aldehyde	0.3656	0.3965	0.2702	0.3079	0.3219	0.3467	0.3348	13.3#
94)M	Norflurazon	0.3515	0.0972	0.1850	0.2178	0.3357	0.3602	0.2579	41.8#
95)M	Butylbenzylphthalat	1.6550	1.2190	1.1804	1.3463	1.6246	1.6787	1.4507	15.8#
96)M	Endosulfan sulfate	0.1453	0.1122	0.1136	0.1037	0.1325	0.1357	0.1238	13.1#
97)M	p,p'-DDT	0.7335	0.3169	0.5315	0.5502	0.7101	0.7216	0.5939	27.3#
98)M	Hexazinone	0.7054	0.3846	0.2816	0.3752	0.7061	0.8739	0.5545	42.9#
99)M	Di(2-ethylhexyl)adi	2.0051	1.4810	0.8966	1.4107	1.8089	1.7497	1.5587	25.1#
100)S	Triphenylphosphate	0.3142	0.2020	0.2559	0.3018	0.1616	0.3233	0.2598	25.4#
101)M	Heptachlorobiphenyl	0.2494	0.2074	0.1841	0.2145	0.2471	0.2414	0.2240	11.7#
102)M	Benz(a)anthracene	1.4804	1.5174	1.2483	1.4624	1.4725	1.4083	1.4316	6.7#
103)M	Octachlorobiphenyl	0.3321	0.3335	0.2836	0.3747	0.3505	0.3241	0.3331	9.1#
104)M	Methoxychlor	1.0769	0.6496	0.6317	0.7016	1.0596	1.0836	0.8672	26.2#
105)M	Chrysene	1.2168	1.1918	1.0490	1.2513	1.2468	1.1573	1.1855	6.4#
106)M	bis(2-Ethylhexyl)ph	2.2542	1.9767	1.3710	1.5130	2.0111	1.9788	1.8508	18.2#

107)M	Fenarimol	0.2241	0.1997	0.0884	0.0788	0.1858	0.2220	0.1665	39.5#
108)M	cis-Permethrin	1.9695	1.4315	1.3221	1.5248	1.8832	1.9654	1.6828	17.2#
109)M	trans-Permethrin	1.6653	1.8434	1.0181	1.1312	1.6715	1.8386	1.5280	23.6#
110)M	Benzo(b)fluoranthen	0.8848	0.9704	0.8571	0.8442	0.9286	0.9265	0.9019	5.3#
111)M	Benzo(k)fluoranthen	0.8472	0.7391	0.6909	0.7832	0.9379	0.8803	0.8131	11.3#
112)M	Benzo(a)pyrene	0.6980	0.7000	0.6625	0.6845	0.7918	0.7883	0.7209	7.7#
113)M	Fluridone	0.1160	0.0171	0.0327	0.0107	0.0682	0.1247	0.0616	80.9#
114)S	Perylene-d12	0.5742	0.4887	0.5500	0.6544	0.2962	0.5449	0.5181	23.4#
115)M	Indeno(1,2,3-cd)pyr	0.5915	0.5320	0.4428	0.5000	0.6466	0.6444	0.5596	14.7#
116)M	Dibenz(a,h)anthrace	0.4372	0.2872	0.3660	0.3833	0.4466	0.4666	0.3978	16.7#
117)M	Benzo(g,h,i)perylen	0.5011	0.2941	0.4357	0.5009	0.5456	0.5553	0.4721	20.5#

118)I p-Terphenyl-d14 ----------ISTD----------

(#) = Out of Range (Advisory for non CCC, SPCC) 0 SPCC fail 0 CCC fail

DRINKWI.M Thu Sep 27 01:59:00 2001

Average RSD= 19.91

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5094H.D
Acq On : 13 Sep 01 1:07 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 13 22:07 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.87	164	1500878	5.00 ug/ml	-0.05
30) PHENANTHRENE-D10	22.29	188	1256148	5.00 ug/ml	-0.05
85) CHRYSENE-D12	29.35	240	393032	5.00 ug/ml	-0.06
118) p-Terphenyl-d14	26.56	244	550554	5.00 ug/ml	-0.06
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.22	134	189931	2.13 ug/ml	-0.05
100) Triphenylphosphate	28.53	326	49395	2.49 ug/ml	-0.05
114) Perylene-d12	33.03	264	90275	2.02 ug/ml	-0.07
Target Compounds					Qvalue
2) Isophorone	14.34	82	964416	2.42 ug/ml	98
4) Dichlorvos	15.95	109	662161	2.25 ug/ml#	67
5) Hexachlorocyclopentadiene	17.07	237	108797	2.45 ug/ml#	73
6) EPTC	17.34	128	364471	2.14 ug/ml#	5
7) Mevinphos	18.08	127	552831	2.15 ug/ml#	56
8) Butylate	18.15	146	231201	2.05 ug/ml#	1
9) Vernolate	18.35	128	407704	2.01 ug/ml#	37
10) Terrazole	18.41	211	85618	2.34 ug/ml#	84
11) Dimethylphthalate	18.39	163	814987	2.04 ug/ml	100
12) Pebulate	18.51	128	416885	2.03 ug/ml#	1
13) 2,6-Dinitrotoluene	18.48	165	154316	6.35 ug/ml#	78
14) Acenaphthylene	18.57	152	1088063	2.02 ug/ml	100
15) Chloroneb	19.01	191	239387	2.00 ug/ml	97
16) 2-Chlorobiphenyl	19.04	188	532403	2.03 ug/ml	100
17) Pentachlorobenzene	19.23	248	117322	2.07 ug/ml#	48
18) Tebuthiuron	19.19	156	108050m	2.40 ug/ml	1
19) 2,4-Dinitrotoluene	19.33	165	122988	7.93 ug/ml#	57
20) Molinate	19.48	126	516295	2.02 ug/ml#	71
21) Diethylphthalate	19.92	149	843124	2.04 ug/ml	100
22) Fluorene	20.08	166	621050	1.96 ug/ml	98
23) Propachlor	20.16	120	465567	2.19 ug/ml#	3
24) Ethoprop	20.46	158	199290	2.22 ug/ml#	23
25) Cycloate	20.51	154	354116	2.03 ug/ml#	1
26) Chlorpropham	20.68	127	243894	2.07 ug/ml#	52
27) Trifluralin	20.70	306	121371	7.45 ug/ml	97
28) alpha-BHC	21.26	181	124619m	1.93 ug/ml	13
29) 2,3-Dichlorobiphenyl	21.30	222	294082	2.01 ug/ml#	54
31) Hexachlorobenzene	21.33	284	146048	2.27 ug/ml#	94
32) Atraton	21.48	196	98930	1.94 ug/ml#	79
33) Prometon	21.59	210	118004	2.22 ug/ml#	82
34) Simazine	21.63	201	78984m	2.12 ug/ml	1
35) Atrazine	21.72	200	257968	4.45 ug/ml	100
36) beta-BHC	21.77	183	78717	2.21 ug/ml	90
37) Propazine	21.79	214	124579	2.17 ug/ml#	83
38) Pentachlorophenol	21.83	266	160145	20.08 ug/ml	94
39) g-BHC (Lindane)	21.98	181	107148	2.13 ug/ml	84
40) Terbufos	22.04	231	148160m	2.26 ug/ml	1
41) Pronamide	22.09	173	234731	2.17 ug/ml#	88
42) Diazinon	22.13	137	171463	2.22 ug/ml#	90
43) Phenanthrene	22.34	178	615845	2.00 ug/ml	100
44) Chlorothalonil	22.30	266	102417	2.24 ug/ml#	91
45) Disulfoton	22.41	88	522886m	2.69 ug/ml	14
46) Anthracene	22.47	178	564822	1.93 ug/ml	99

(#) = qualifier out of range (m) = manual integration
5094H.D DRINKWI.M Mon Oct 01 03:38:41 2001

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5094H.D
Acq On : 13 Sep 01 1:07 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 13 22:07 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.40	109	103414	4.65 ug/ml#	44
48) Terbacil	22.40	161	134090	2.49 ug/ml#	85
49) delta-BHC	22.56	181	73712	2.02 ug/ml#	73
50) Trichlorobiphenyl	22.90	256	167712	2.24 ug/ml	100
51) Acetochlor	23.35	146	97392	1.84 ug/ml#	58
52) Metribuzin	23.19	198	98720	2.28 ug/ml	100
53) Alachlor	23.35	160	305823	4.92 ug/ml	84
54) Simetryn	23.42	213	129362m	1.97 ug/ml	1
55) Ametryn	23.50	227	109097m	2.14 ug/ml	1
56) Heptachlor	23.58	100	204007	2.39 ug/ml#	33
57) Prometryn	23.55	241	129196	2.15 ug/ml#	83
58) Terbutryn	23.84	226	115589	2.06 ug/ml	93
59) Di-n-butyl phthalate	23.97	149	1249240	2.20 ug/ml	99
60) Bromacil	23.90	205	91038m	2.45 ug/ml	33
61) Tetrachlorobiphenyl	24.12	292	111939m	2.42 ug/ml	100
62) Aldrin	24.38	66	157642	2.39 ug/ml#	60
63) Metolachlor	24.18	162	428918	2.31 ug/ml	91
64) Chlorpyrifos	24.21	314	28223	2.35 ug/ml#	1
65) DCPA	24.32	301	100253	2.32 ug/ml#	88
66) Cyanazine	24.32	212	7577m	1.83 ug/ml	1
67) Triadimefon	24.45	57	208805	2.06 ug/ml#	38
68) Diphenamid	24.71	167	270290	2.03 ug/ml#	20
69) MGK 264-A	24.74	111	87750	1.15 ug/ml#	80
70) Pendimethalin	24.93	252	93133	8.51 ug/ml#	65
71) MGK 264-B	25.02	164	65156	1.09 ug/ml#	61
72) Heptachlor epoxide	25.22	81	101503	2.63 ug/ml#	63
73) Pentachlorobiphenyl	25.25	326	74093	2.40 ug/ml	100
74) g-Chlordane	25.74	375	57450	2.33 ug/ml	100
75) Stirofos	25.73	109	160016	2.06 ug/ml#	57
76) Butachlor	25.79	176	132055	2.52 ug/ml	100
77) a-Chlordane	26.02	373	55665	2.67 ug/ml	85
78) Endosulfan I	26.03	195	35691	1.94 ug/ml#	76
79) trans-Nonachlor	26.08	409	64327	2.38 ug/ml#	70
80) Fenamiphos	26.03	303	21653m	1.78 ug/ml	47
81) Napropamide	26.12	72	333919	2.39 ug/ml#	65
82) Tricyclazole	26.37	189	18253m	1.29 ug/ml	1
83) p,p'-DDE	26.44	246	99802	2.07 ug/ml	92
84) Hexachlorobiphenyl	26.58	360	70801	2.25 ug/ml#	64
86) Pyrene	26.02	202	427608	2.20 ug/ml#	76
87) Dieldrin	26.62	79	177403	2.84 ug/ml#	57
88) Carboxin	26.62	143	165101	2.06 ug/ml#	45
89) Endrin	27.09	81	48912	3.61 ug/ml#	50
90) Chlorobenzilate	27.14	139	155567	3.13 ug/ml	89
91) Endosulfan II	27.31	195	19934	2.24 ug/ml#	87
92) p,p'-DDD	27.35	235	151585	2.43 ug/ml#	93
93) Endrin aldehyde	27.62	67	57476	2.80 ug/ml#	44
94) Norflurazon	27.91	145	55263	1.87 ug/ml#	79
95) Butylbenzylphthalate	28.01	149	260195	2.16 ug/ml	94
96) Endosulfan sulfate	28.13	272	22840	2.87 ug/ml#	70
97) p,p'-DDT	28.17	235	115313	3.15 ug/ml#	80
98) Hexazinone	28.25	171	110899m	1.58 ug/ml	1
99) Di(2-ethylhexyl)adipate	28.34	129	315223	2.52 ug/ml#	63
101) Heptachlorobiphenyl	29.22	394	39207	2.65 ug/ml#	10
102) Benz(a)anthracene	29.33	228	232745	2.00 ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5094H.D
Acq On : 13 Sep 01 1:07 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 13 22:07 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.33	430	52203	2.42 ug/ml#	77
104) Methoxychlor	29.33	227	169303m	2.68 ug/ml	1
105) Chrysene	29.42	228	191302	1.97 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.70	149	354390	2.35 ug/ml#	95
107) Fenarimol	30.59	139	35236	2.00 ug/ml	95
108) cis-Permethrin	31.22	183	266284	1.80 ug/ml#	68
109) trans-Permethrin	31.36	183	36652	0.30 ug/ml#	88
110) Benzo(b)fluoranthene	32.11	252	139101m	1.89 ug/ml	74
111) Benzo(k)fluoranthene	32.19	252	133185	1.88 ug/ml#	86
112) Benzo(a)pyrene	32.89	252	109739	1.77 ug/ml	100
113) Fluridone	32.84	328	18242m	1.40 ug/ml	1
115) Indeno(1,2,3-cd)pyrene	35.87	276	92989m	1.87 ug/ml	50
116) Dibenz(a,h)anthracene	35.96	278	68731	1.90 ug/ml#	34
117) Benzo(g,h,i)perylene	36.67	276	78772m	1.87 ug/ml	93

(#) = qualifier out of range (m) = manual integration

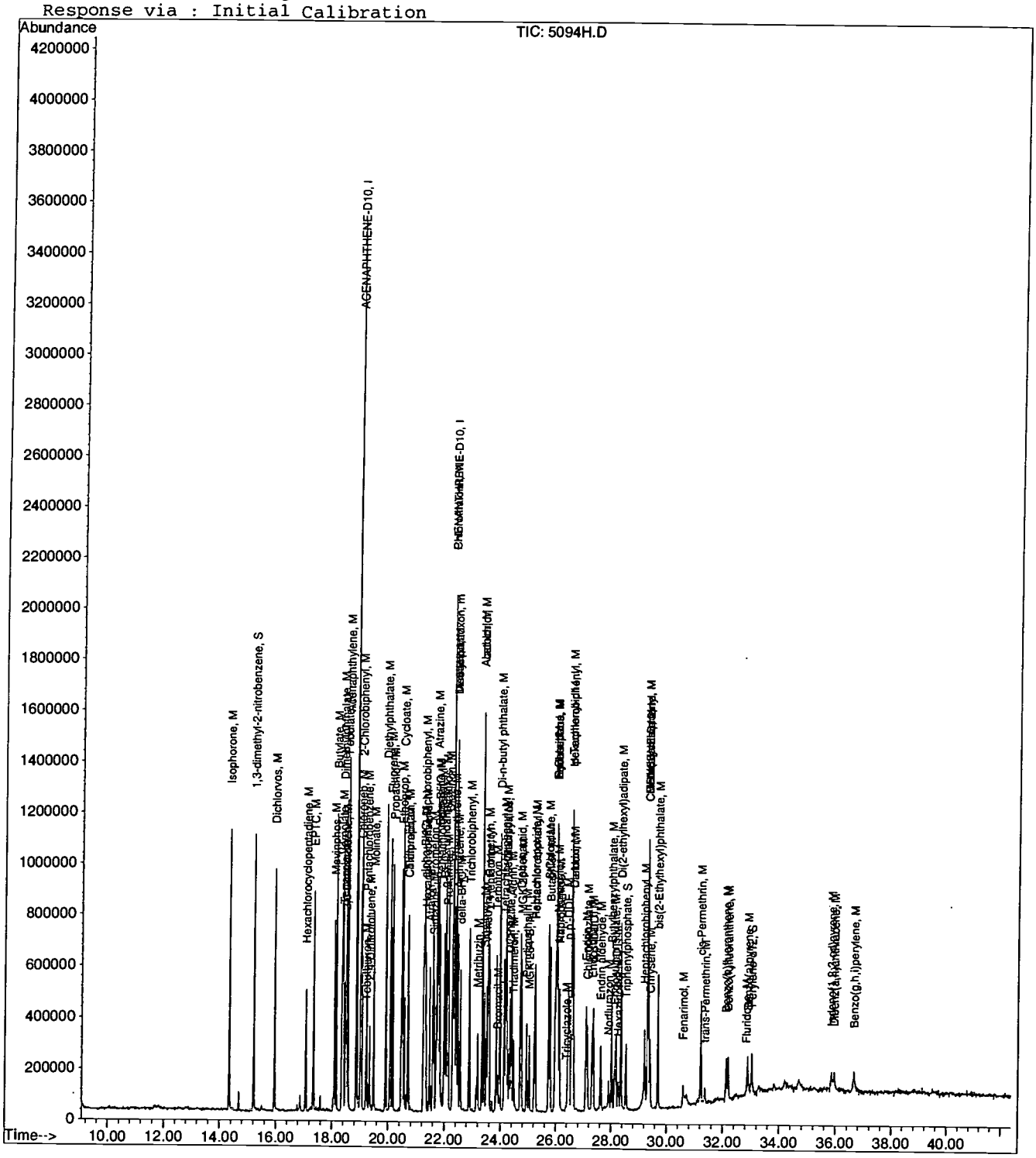
Quantitation Report

Data File : D:\HDATA~1\H091301\5094H.D
Acq On : 13 Sep 01 1:07 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 13 22:07 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5095H.D
Acq On : 13 Sep 01 1:59 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:53 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.87	164	1413351	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.29	188	1103769	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.34	240	333433	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.56	244	483232	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.21	134	9810	0.12 ug/ml	0.00
100) Triphenylphosphate	28.54	326	1347	0.08 ug/ml	0.00
114) Perylene-d12	33.04	264	3259	0.09 ug/ml	0.02
Target Compounds					Qvalue
2) Isophorone	14.34	82	41111	0.11 ug/ml	93
4) Dichlorvos	15.96	109	22145	0.08 ug/ml#	68
5) Hexachlorocyclopentadiene	17.06	237	4096	0.10 ug/ml#	67
6) EPTC	17.34	128	19181	0.12 ug/ml#	25
7) Mevinphos	18.08	127	15459	0.06 ug/ml#	63
8) Butylate	18.15	146	11980	0.11 ug/ml#	1
9) Vernolate	18.35	128	20585	0.11 ug/ml#	39
10) Terrazole	18.41	211	2896	0.08 ug/ml#	65
11) Dimethylphthalate	18.38	163	37987	0.10 ug/ml	100
12) Pebulate	18.52	128	17431	0.09 ug/ml#	1
13) 2,6-Dinitrotoluene	18.48	165	5836	0.25 ug/ml#	74
14) Acenaphthylene	18.56	152	51553	0.10 ug/ml	100
15) Chloroneb	19.00	191	11005	0.10 ug/ml#	91
16) 2-Chlorobiphenyl	19.05	188	24127	0.10 ug/ml	100
17) Pentachlorobenzene	19.22	248	5229	0.10 ug/ml#	43
18) Tebuthiuron	18.87	156	71274	1.68 ug/ml#	59
19) 2,4-Dinitrotoluene	19.31	165	2820m	0.19 ug/ml	38
20) Molinate	19.47	126	26115	0.11 ug/ml#	80
21) Diethylphthalate	19.91	149	33168	0.09 ug/ml	100
22) Fluorene	20.08	166	28212	0.09 ug/ml	92
23) Propachlor	20.15	120	17276	0.09 ug/ml#	3
24) Ethoprop	20.46	158	6468	0.08 ug/ml#	8
25) Cycloate	20.51	154	16347	0.10 ug/ml#	1
26) Chlorpropham	20.68	127	10998	0.10 ug/ml#	44
27) Trifluralin	20.70	306	2657	0.17 ug/ml	91
28) alpha-BHC	21.26	181	5566	0.09 ug/ml#	71
29) 2,3-Dichlorobiphenyl	21.29	222	13892	0.10 ug/ml#	65
31) Hexachlorobenzene	21.33	284	7899	0.14 ug/ml#	69
32) Atraton	21.48	196	2558	0.06 ug/ml#	45
33) Prometon	21.58	210	3354	0.07 ug/ml#	80
34) Simazine	21.61	201	3033	0.09 ug/ml#	35
35) Atrazine	21.71	200	7248	0.14 ug/ml	100
36) beta-BHC	21.76	183	2693	0.09 ug/ml#	45
37) Propazine	21.78	214	4348	0.09 ug/ml#	50
38) Pentachlorophenol	21.84	266	1603	0.23 ug/ml	92
39) g-BHC (Lindane)	21.97	181	3875m	0.09 ug/ml	95
40) Terbufos	22.04	231	4345	0.08 ug/ml#	1
41) Pronamide	22.08	173	5327	0.06 ug/ml#	94
42) Diazinon	22.12	137	7814	0.12 ug/ml#	71
43) Phenanthrene	22.47	178	24470	0.09 ug/ml	94
44) Chlorothalonil	22.29	266	4040	0.10 ug/ml#	81
45) Disulfoton	22.40	88	16313	0.10 ug/ml#	53
46) Anthracene	22.47	178	24470	0.09 ug/ml#	92

(#) = qualifier out of range (m) = manual integration
5095H.D DRINKWI.M Mon Oct 01 03:39:12 2001

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5095H.D
Acq On : 13 Sep 01 1:59 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:53 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.40	109	3295	0.17 ug/ml#	40
48) Terbacil	22.38	161	3324	0.07 ug/ml#	59
49) delta-BHC	22.56	181	4230	0.13 ug/ml#	86
50) Trichlorobiphenyl	22.90	256	8284	0.13 ug/ml	100
51) Acetochlor	23.34	146	3185	0.07 ug/ml#	50
52) Metribuzin	23.18	198	2379	0.06 ug/ml	100
53) Alachlor	23.34	160	10414	0.19 ug/ml	85
54) Simetryn	23.42	213	3324	0.06 ug/ml#	76
55) Ametryn	23.51	227	2973	0.07 ug/ml#	57
56) Heptachlor	23.59	100	10501	0.14 ug/ml#	22
57) Prometryn	23.55	241	4305	0.08 ug/ml#	83
58) Terbutryn	23.84	226	3249	0.07 ug/ml#	71
59) Di-n-butyl phthalate	23.96	149	57501	0.12 ug/ml	96
60) Bromacil	23.92	205	2145	0.07 ug/ml#	62
61) Tetrachlorobiphenyl	24.12	292	5473	0.13 ug/ml	100
62) Aldrin	24.38	66	8208	0.14 ug/ml#	44
63) Metolachlor	24.17	162	14144	0.09 ug/ml	92
64) Chlorpyrifos	24.21	314	921	0.09 ug/ml#	1
65) DCPA	24.32	301	3184	0.08 ug/ml#	78
66) Cyanazine	24.31	212	241	0.07 ug/ml#	1
67) Triadimefon	24.46	57	4675	0.05 ug/ml#	37
68) Diphenamid	24.71	167	8306	0.07 ug/ml#	20
69) MGK 264-A	24.73	111	4008	0.06 ug/ml#	43
70) Pendimethalin	24.92	252	2059	0.21 ug/ml#	60
71) MGK 264-B	25.02	164	3189	0.06 ug/ml#	83
72) Heptachlor epoxide	25.21	81	5103	0.15 ug/ml#	55
73) Pentachlorobiphenyl	25.25	326	4081	0.15 ug/ml	100
74) g-Chlordane	25.73	375	1996	0.09 ug/ml	100
75) Stirofos	25.73	109	4909	0.07 ug/ml#	42
76) Butachlor	25.78	176	3836	0.08 ug/ml	100
77) a-Chlordane	26.03	373	2636	0.14 ug/ml#	83
78) Endosulfan I	26.02	195	1462	0.09 ug/ml#	61
79) trans-Nonachlor	26.07	409	3561	0.15 ug/ml#	76
80) Fenamiphos	26.03	303	442	0.04 ug/ml#	4
81) Napropamide	26.12	72	9035	0.07 ug/ml#	66
82) Tricyclazole	26.38	189	138	0.01 ug/ml#	1
83) p,p'-DDE	26.44	246	4994	0.12 ug/ml#	70
84) Hexachlorobiphenyl	26.57	360	3233	0.12 ug/ml#	52
86) Pyrene	26.01	202	17239	0.10 ug/ml#	70
87) Dieldrin	26.61	79	9900	0.19 ug/ml#	53
88) Carboxin	26.62	143	3278	0.05 ug/ml#	29
89) Endrin	27.09	81	1955	0.17 ug/ml#	6
90) Chlorobenzilate	27.15	139	1490	0.04 ug/ml#	1
91) Endosulfan II	27.33	195	257	0.03 ug/ml#	1
92) p,p'-DDD	27.36	235	6820	0.13 ug/ml#	69
93) Endrin aldehyde	27.63	67	2644	0.15 ug/ml#	39
94) Norflurazon	27.89	145	648	0.03 ug/ml#	12
95) Butylbenzylphthalate	28.00	149	8129	0.08 ug/ml#	25
96) Endosulfan sulfate	28.13	272	748	0.11 ug/ml#	75
97) p,p'-DDT	28.18	235	2113	0.07 ug/ml#	67
98) Hexazinone	28.25	171	2565	0.04 ug/ml#	93
99) Di(2-ethylhexyl)adipate	28.36	129	9876	0.09 ug/ml#	75
101) Heptachlorobiphenyl	29.23	394	1383m	0.11 ug/ml	90
102) Benz(a)anthracene	29.34	228	10119	0.10 ug/ml#	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5095H.D
Acq On : 13 Sep 01 1:59 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:53 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.34	430	2224m	0.12 ug/ml	89
104) Methoxychlor	29.34	227	4332	0.08 ug/ml#	1
105) Chrysene	29.43	228	7948	0.10 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.69	149	13182m	0.10 ug/ml	85
107) Fenarimol	30.58	139	1332	0.09 ug/ml#	62
108) cis-Permethrin	31.23	183	8210	0.07 ug/ml#	75
109) trans-Permethrin	31.38	183	1721	0.02 ug/ml#	73
110) Benzo(b)fluoranthene	32.13	252	6471	0.10 ug/ml#	63
111) Benzo(k)fluoranthene	32.17	252	4929	0.08 ug/ml#	93
112) Benzo(a)pyrene	32.91	252	4668	0.09 ug/ml	100
113) Fluridone	32.85	328	114	0.01 ug/ml#	66
115) Indeno(1,2,3-cd)pyrene	35.90	276	3548m	0.08 ug/ml	74
116) Dibenz(a,h)anthracene	36.05	278	1915m	0.06 ug/ml	1
117) Benzo(g,h,i)perylene	36.66	276	1961m	0.06 ug/ml	1

(#) = qualifier out of range (m) = manual integration
5095H.D DRINKWI.M Mon Oct 01 03:39:15 2001

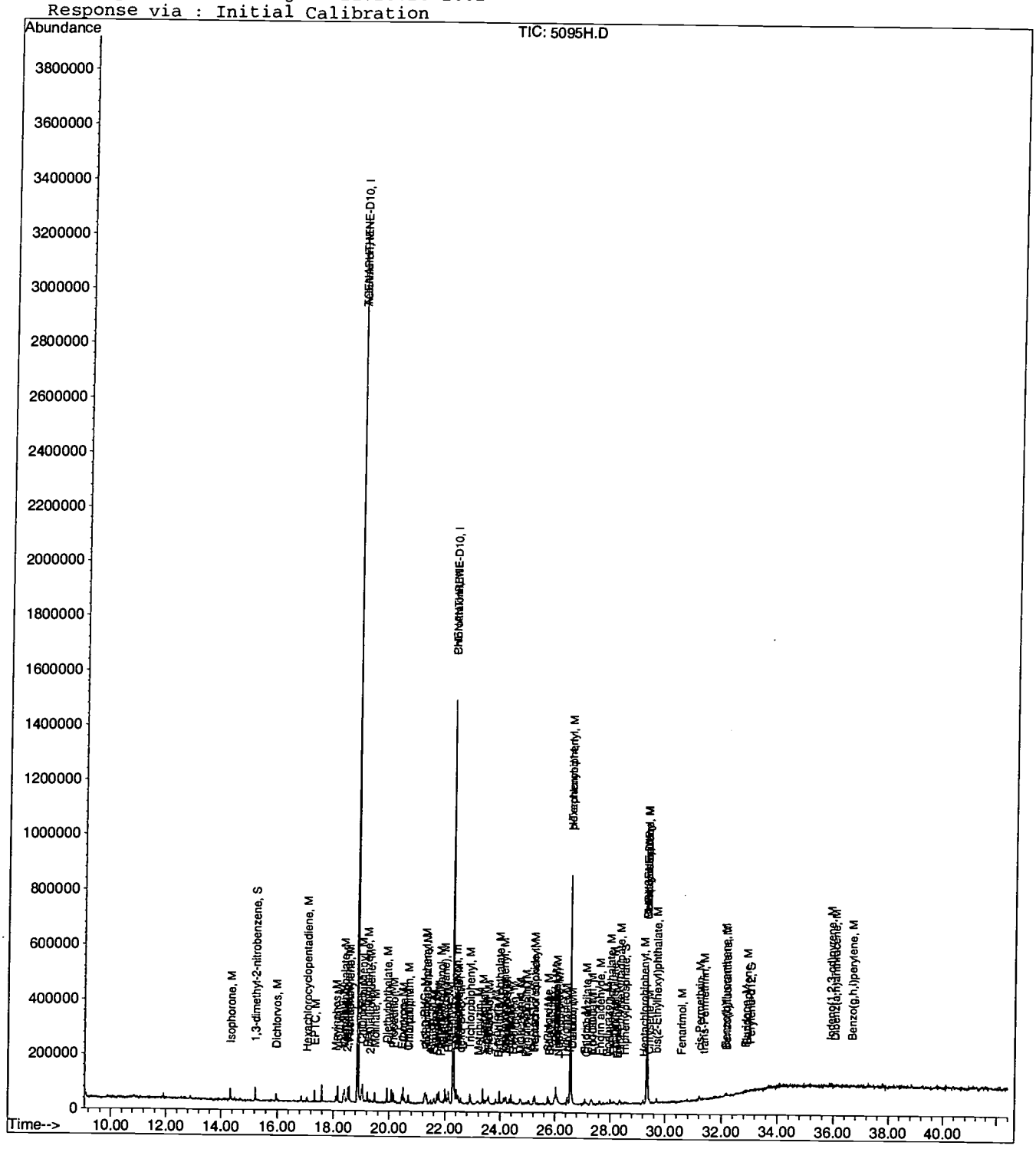
Quantitation Report

Data File : D:\HDATA~1\H091301\5095H.D
Acq On : 13 Sep 01 1:59 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:53 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5096H.D
Acq On : 13 Sep 01 2:50 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:50 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.87	164	1255260	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.28	188	1032372	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.34	240	353104	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.56	244	449125	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.22	134	40388	0.54 ug/ml	0.00
100) Triphenylphosphate	28.53	326	9036	0.51 ug/ml	0.00
114) Perylene-d12	33.03	264	19421	0.48 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.33	82	186838	0.56 ug/ml	99
4) Dichlorvos	15.95	109	90225	0.37 ug/ml#	70
5) Hexachlorocyclopentadiene	17.06	237	19111	0.51 ug/ml#	72
6) EPTC	17.33	128	66831	0.47 ug/ml#	20
7) Mevinphos	18.08	127	64855	0.30 ug/ml#	57
8) Butylate	18.15	146	43912	0.47 ug/ml#	1
9) Vernolate	18.34	128	73058	0.43 ug/ml#	41
10) Terrazole	18.41	211	11378	0.37 ug/ml#	77
11) Dimethylphthalate	18.38	163	148940	0.45 ug/ml	100
12) Pebulate	18.50	128	78511	0.46 ug/ml#	1
13) 2,6-Dinitrotoluene	18.48	165	23367	1.15 ug/ml#	71
14) Acenaphthylene	18.57	152	211479	0.47 ug/ml	100
15) Chloroneb	19.01	191	48154	0.48 ug/ml	95
16) 2-Chlorobiphenyl	19.04	188	105127	0.48 ug/ml	100
17) Pentachlorobenzene	19.22	248	23679	0.50 ug/ml#	43
18) Tebuthiuron	19.19	156	8163	0.22 ug/ml#	69
19) 2,4-Dinitrotoluene	19.32	165	15038	1.16 ug/ml#	51
20) Molinate	19.47	126	93939	0.44 ug/ml#	76
21) Diethylphthalate	19.92	149	146363	0.42 ug/ml	100
22) Fluorene	20.07	166	124246	0.47 ug/ml	94
23) Propachlor	20.15	120	74388	0.42 ug/ml#	3
24) Ethoprop	20.46	158	26141	0.35 ug/ml#	21
25) Cycloate	20.50	154	62858	0.43 ug/ml#	1
26) Chlorpropham	20.68	127	40391	0.41 ug/ml#	51
27) Trifluralin	20.70	306	11771	0.86 ug/ml#	86
28) alpha-BHC	21.25	181	22515	0.42 ug/ml#	86
29) 2,3-Dichlorobiphenyl	21.29	222	53219	0.43 ug/ml#	40
31) Hexachlorobenzene	21.33	284	31832	0.60 ug/ml#	88
32) Atraton	21.48	196	9052	0.22 ug/ml#	84
33) Prometon	21.59	210	15777	0.36 ug/ml#	78
34) Simazine	21.61	201	13685	0.45 ug/ml	94
35) Atrazine	21.71	200	41063	0.86 ug/ml	100
36) beta-BHC	21.76	183	16132	0.55 ug/ml	96
37) Propazine	21.78	214	19896	0.42 ug/ml#	84
38) Pentachlorophenol	21.83	266	14319m	2.18 ug/ml	87
39) g-BHC (Lindane)	21.98	181	18707	0.45 ug/ml#	78
40) Terbufos	22.03	231	21950	0.41 ug/ml#	1
41) Pronamide	22.09	173	30800	0.35 ug/ml#	91
42) Diazinon	22.12	137	32609	0.51 ug/ml#	75
43) Phenanthrene	22.34	178	116603	0.46 ug/ml	100
44) Chlorothalonil	22.29	266	15838	0.42 ug/ml#	85
45) Disulfoton	22.40	88	81824	0.51 ug/ml#	41
46) Anthracene	22.47	178	108314	0.45 ug/ml	100

(#) = qualifier out of range (m) = manual integration
5096H.D DRINKWI.M Mon Oct 01 03:39:36 2001

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5096H.D
Acq On : 13 Sep 01 2:50 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:50 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.40	109	10702	0.59 ug/ml#	49
48) Terbacil	22.38	161	15179m	0.34 ug/ml	69
49) delta-BHC	22.57	181	12922	0.43 ug/ml#	73
50) Trichlorobiphenyl	22.90	256	29862	0.49 ug/ml	100
51) Acetochlor	23.35	146	17310	0.40 ug/ml#	49
52) Metribuzin	23.19	198	11123m	0.31 ug/ml	100
53) Alachlor	23.34	160	45136	0.88 ug/ml#	81
54) Simetryn	23.41	213	16972	0.32 ug/ml#	85
55) Ametryn	23.49	227	13980	0.33 ug/ml#	68
56) Heptachlor	23.58	100	35686	0.51 ug/ml#	27
57) Prometryn	23.55	241	19887	0.40 ug/ml#	79
58) Terbutryn	23.83	226	15193	0.33 ug/ml	95
59) Di-n-butyl phthalate	23.97	149	201661	0.43 ug/ml	98
60) Bromacil	23.89	205	7310	0.24 ug/ml#	69
61) Tetrachlorobiphenyl	24.11	292	20548	0.54 ug/ml	100
62) Aldrin	24.38	66	30638	0.57 ug/ml#	55
63) Metolachlor	24.17	162	59895	0.39 ug/ml	89
64) Chlorpyrifos	24.21	314	3838	0.39 ug/ml#	1
65) DCPA	24.32	301	18357	0.52 ug/ml#	89
66) Cyanazine	24.34	212	414	0.12 ug/ml#	1
67) Triadimefon	24.45	57	20474	0.25 ug/ml#	44
68) Diphenamid	24.71	167	39341	0.36 ug/ml#	19
69) MGK 264-A	24.74	111	12002	0.19 ug/ml#	77
70) Pendimethalin	24.92	252	6625	0.74 ug/ml#	90
71) MGK 264-B	25.02	164	12139	0.25 ug/ml#	68
72) Heptachlor epoxide	25.21	81	20570	0.65 ug/ml#	49
73) Pentachlorobiphenyl	25.25	326	12445	0.49 ug/ml	100
74) g-Chlordane	25.73	375	9634	0.48 ug/ml	100
75) Stirofos	25.72	109	21960	0.34 ug/ml#	48
76) Butachlor	25.79	176	16148	0.37 ug/ml	100
77) a-Chlordane	26.01	373	10615	0.62 ug/ml#	60
78) Endosulfan I	26.04	195	5975	0.39 ug/ml#	65
79) trans-Nonachlor	26.06	409	11379	0.51 ug/ml#	36
80) Fenamiphos	26.03	303	758	0.08 ug/ml#	1
81) Napropamide	26.13	72	38739	0.34 ug/ml#	75
82) Tricyclazole	26.39	189	2707	0.23 ug/ml#	81
83) p,p'-DDE	26.44	246	16285	0.41 ug/ml	93
84) Hexachlorobiphenyl	26.57	360	11760	0.45 ug/ml#	53
86) Pyrene	26.01	202	85038	0.49 ug/ml#	73
87) Dieldrin	26.61	79	35085	0.63 ug/ml#	57
88) Carboxin	26.63	143	23937	0.33 ug/ml#	52
89) Endrin	27.07	81	8696	0.71 ug/ml#	37
90) Chlorobenzilate	27.14	139	16250	0.36 ug/ml#	85
91) Endosulfan II	27.31	195	3724	0.47 ug/ml#	71
92) p,p'-DDD	27.34	235	23487	0.42 ug/ml#	85
93) Endrin aldehyde	27.61	67	9540	0.52 ug/ml#	49
94) Norflurazon	27.90	145	6534	0.25 ug/ml#	76
95) Butylbenzylphthalate	28.01	149	41681	0.39 ug/ml	94
96) Endosulfan sulfate	28.12	272	4010	0.56 ug/ml#	71
97) p,p'-DDT	28.18	235	18766	0.57 ug/ml#	73
98) Hexazinone	28.24	171	9945	0.16 ug/ml#	88
99) Di(2-ethylhexyl)adipate	28.36	129	31661m	0.28 ug/ml	88
101) Heptachlorobiphenyl	29.22	394	6500	0.49 ug/ml#	1
102) Benz(a)anthracene	29.32	228	44077	0.42 ug/ml#	86

(#) = qualifier out of range (m) = manual integration
5096H.D DRINKWI.M Mon Oct 01 03:39:38 2001

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5096H.D
Acq On : 13 Sep 01 2:50 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:50 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.33	430	10013	0.52 ug/ml#	75
104) Methoxychlor	29.33	227	22304	0.39 ug/ml#	1
105) Chrysene	29.41	228	37039	0.42 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.70	149	48410	0.36 ug/ml	93
107) Fenarimol	30.57	139	3123	0.20 ug/ml	98
108) cis-Permethrin	31.22	183	40148	0.30 ug/ml#	67
109) trans-Permethrin	31.37	183	5033	0.05 ug/ml#	66
110) Benzo(b)fluoranthene	32.12	252	30266	0.46 ug/ml#	80
111) Benzo(k)fluoranthene	32.18	252	24396	0.38 ug/ml#	70
112) Benzo(a)pyrene	32.90	252	23394	0.42 ug/ml	100
113) Fluridone	32.85	328	1155	0.10 ug/ml#	71
115) Indeno(1,2,3-cd)pyrene	35.87	276	15637m	0.35 ug/ml	68
116) Dibenz(a,h)anthracene	35.92	278	12922m	0.40 ug/ml	30
117) Benzo(g,h,i)perylene	36.66	276	15386m	0.41 ug/ml	48

(#) = qualifier out of range (m) = manual integration

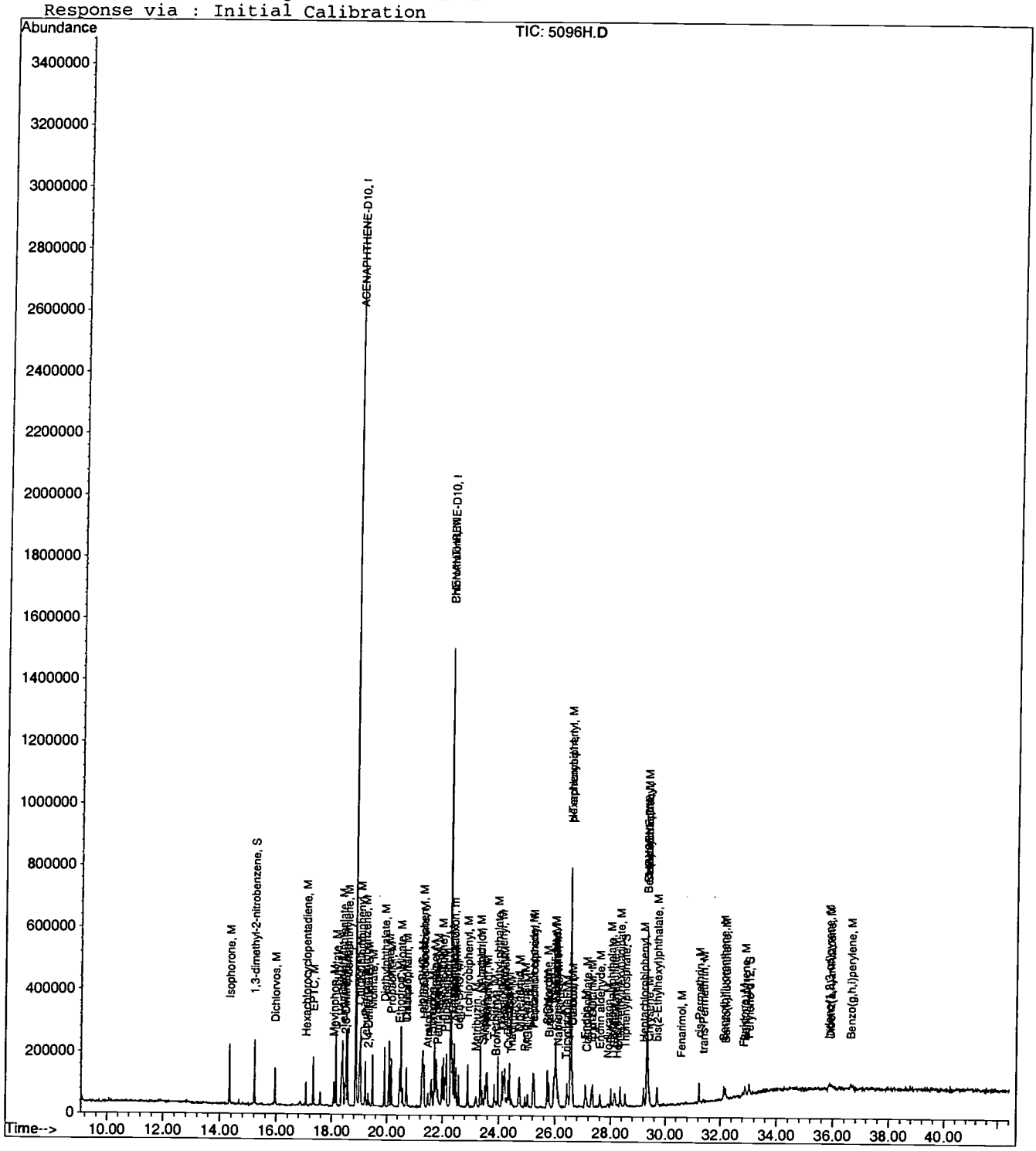
Quantitation Report

Data File : D:\HDATA~1\H091301\5096H.D
Acq On : 13 Sep 01 2:50 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:50 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



5096H.D DRINKWI.M Mon Oct 01 03:39:45 2001

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5097H.D
Acq On : 13 Sep 01 3:42 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:55 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.87	164	1144953	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.29	188	937737	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.34	240	317976	5.00	ug/ml	0.00
118) p-Terphenyl-d14	26.56	244	427015	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.21	134	96607	1.42	ug/ml	0.00
100) Triphenylphosphate	28.53	326	19192	1.20	ug/ml	0.00
114) Perylene-d12	33.03	264	41615	1.15	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.34	82	353295	1.16	ug/ml	99
4) Dichlorvos	15.95	109	210313	0.94	ug/ml#	67
5) Hexachlorocyclopentadiene	17.07	237	32840	0.97	ug/ml#	52
6) EPTC	17.34	128	139456	1.08	ug/ml#	17
7) Mevinphos	18.08	127	144263	0.74	ug/ml#	56
8) Butylate	18.14	146	88934	1.03	ug/ml#	1
9) Vernolate	18.35	128	164826	1.06	ug/ml#	38
10) Terrazole	18.41	211	25324	0.91	ug/ml#	85
11) Dimethylphthalate	18.38	163	305263	1.00	ug/ml	100
12) Pebulate	18.51	128	158979	1.01	ug/ml#	1
13) 2,6-Dinitrotoluene	18.48	165	42672	2.30	ug/ml#	75
14) Acenaphthylene	18.56	152	428414	1.04	ug/ml	100
15) Chloroneb	19.01	191	97889	1.07	ug/ml	93
16) 2-Chlorobiphenyl	19.04	188	223461	1.12	ug/ml	100
17) Pentachlorobenzene	19.23	248	46685	1.08	ug/ml#	42
18) Tebuthiuron	19.19	156	16938	0.49	ug/ml#	70
19) 2,4-Dinitrotoluene	19.32	165	26475	2.24	ug/ml#	49
20) Molinate	19.48	126	194996	1.00	ug/ml#	75
21) Diethylphthalate	19.91	149	310358	0.98	ug/ml	100
22) Fluorene	20.08	166	242707	1.00	ug/ml	96
23) Propachlor	20.16	120	162027	1.00	ug/ml#	3
24) Ethoprop	20.46	158	58277	0.85	ug/ml#	14
25) Cycloate	20.51	154	133270	1.00	ug/ml#	1
26) Chlorpropham	20.68	127	80725	0.90	ug/ml#	55
27) Trifluralin	20.69	306	30117	2.42	ug/ml	92
28) alpha-BHC	21.25	181	57436	1.17	ug/ml	87
29) 2,3-Dichlorobiphenyl	21.29	222	111902	1.00	ug/ml#	37
31) Hexachlorobenzene	21.33	284	58638	1.22	ug/ml	93
32) Atraton	21.47	196	29214	0.77	ug/ml#	68
33) Prometon	21.59	210	34012	0.86	ug/ml#	82
34) Simazine	21.62	201	30007	1.08	ug/ml#	85
35) Atrazine	21.71	200	88495	2.04	ug/ml	100
36) beta-BHC	21.97	183	41343	1.56	ug/ml	92
37) Propazine	21.79	214	46660	1.09	ug/ml#	85
38) Pentachlorophenol	21.83	266	35065m	5.89	ug/ml	96
39) g-BHC (Lindane)	21.97	181	41384	1.10	ug/ml#	79
40) Terbufos	22.04	231	50877	1.04	ug/ml#	1
41) Pronamide	22.08	173	70044	0.87	ug/ml#	94
42) Diazinon	22.12	137	63896	1.11	ug/ml#	87
43) Phenanthrene	22.34	178	245608	1.07	ug/ml	99
44) Chlorothalonil	22.30	266	32044	0.94	ug/ml#	91
45) Disulfoton	22.40	88	188238	1.30	ug/ml#	43
46) Anthracene	22.47	178	222393	1.02	ug/ml	99

(#) = qualifier out of range (m) = manual integration
5097H.D DRINKWI.M Mon Oct 01 03:40:00 2001

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5097H.D
Acq On : 13 Sep 01 3:42 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:55 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Methyl paraoxon	22.40	109	26417	1.59	ug/ml#	44
48) Terbacil	22.39	161	41372	1.03	ug/ml#	80
49) delta-BHC	22.57	181	30307	1.11	ug/ml#	80
50) Trichlorobiphenyl	22.90	256	67240	1.20	ug/ml	100
51) Acetochlor	23.34	146	41327	1.05	ug/ml#	51
52) Metribuzin	23.18	198	25681	0.79	ug/ml	100
53) Alachlor	23.34	160	110553	2.38	ug/ml	83
54) Simetryn	23.42	213	43149	0.88	ug/ml#	93
55) Ametryn	23.50	227	42707	1.12	ug/ml#	79
56) Heptachlor	23.58	100	80706	1.27	ug/ml#	31
57) Prometryn	23.55	241	44742	1.00	ug/ml#	87
58) Terbutryn	23.84	226	40962	0.98	ug/ml	89
59) Di-n-butyl phthalate	23.96	149	447628	1.05	ug/ml	100
60) Bromacil	23.89	205	13799	0.50	ug/ml#	63
61) Tetrachlorobiphenyl	24.12	292	41120	1.19	ug/ml	100
62) Aldrin	24.38	66	68010	1.38	ug/ml#	60
63) Metolachlor	24.18	162	141781	1.02	ug/ml	87
64) Chlorpyrifos	24.20	314	9066	1.01	ug/ml#	1
65) DCPA	24.32	301	38842	1.20	ug/ml#	84
66) Cyanazine	24.31	212	3616	1.17	ug/ml#	26
67) Triadimefon	24.45	57	39574	0.52	ug/ml#	46
68) Diphenamid	24.71	167	94366	0.95	ug/ml#	20
69) MGK 264-A	24.74	111	33314	0.58	ug/ml#	78
70) Pendimethalin	24.93	252	19810	2.42	ug/ml#	73
71) MGK 264-B	25.02	164	22932	0.51	ug/ml#	56
72) Heptachlor epoxide	25.22	81	43627	1.51	ug/ml#	53
73) Pentachlorobiphenyl	25.25	326	34182	1.49	ug/ml	100
74) g-Chlordane	25.74	375	23672	1.29	ug/ml	100
75) Stirofos	25.73	109	42326	0.73	ug/ml#	50
76) Butachlor	25.79	176	38249	0.98	ug/ml	100
77) a-Chlordane	26.01	373	22125	1.42	ug/ml#	81
78) Endosulfan I	26.04	195	15901	1.16	ug/ml#	80
79) trans-Nonachlor	26.07	409	28097	1.39	ug/ml#	65
80) Fenamiphos	26.01	303	3718	0.41	ug/ml#	14
81) Napropamide	26.12	72	108852	1.04	ug/ml#	66
82) Tricyclazole	26.37	189	3199	0.30	ug/ml#	47
83) p,p'-DDE	26.43	246	40119	1.11	ug/ml	91
84) Hexachlorobiphenyl	26.58	360	28876	1.23	ug/ml#	60
86) Pyrene	26.00	202	175453	1.11	ug/ml#	79
87) Dieldrin	26.62	79	73036	1.45	ug/ml#	60
88) Carboxin	26.63	143	54939	0.85	ug/ml#	42
89) Endrin	27.08	81	13245	1.21	ug/ml#	1
90) Chlorobenzilate	27.13	139	33637	0.84	ug/ml	88
91) Endosulfan II	27.31	195	8306	1.16	ug/ml#	73
92) p,p'-DDD	27.35	235	58340	1.16	ug/ml	94
93) Endrin aldehyde	27.62	67	19581	1.18	ug/ml#	47
94) Norflurazon	27.89	145	13852	0.58	ug/ml#	78
95) Butylbenzylphthalate	28.01	149	85618	0.88	ug/ml	89
96) Endosulfan sulfate	28.14	272	6595	1.02	ug/ml#	82
97) p,p'-DDT	28.16	235	34989	1.18	ug/ml#	82
98) Hexazinone	28.24	171	23864	0.42	ug/ml#	71
99) Di(2-ethylhexyl)adipate	28.35	129	89716	0.89	ug/ml#	62
101) Heptachlorobiphenyl	29.22	394	13641	1.14	ug/ml#	14
102) Benz(a)anthracene	29.32	228	93003	0.99	ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5097H.D
Acq On : 13 Sep 01 3:42 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:55 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.32	430	23827	1.37 ug/ml#	79
104) Methoxychlor	29.33	227	44620	0.87 ug/ml#	1
105) Chrysene	29.42	228	79576	1.01 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.69	149	96219	0.79 ug/ml	98
107) Fenarimol	30.58	139	5014	0.35 ug/ml#	92
108) cis-Permethrin	31.22	183	83393	0.70 ug/ml#	67
109) trans-Permethrin	31.36	183	10071	0.10 ug/ml#	72
110) Benzo(b)fluoranthene	32.12	252	53689	0.90 ug/ml#	70
111) Benzo(k)fluoranthene	32.19	252	49806	0.87 ug/ml#	81
112) Benzo(a)pyrene	32.89	252	43533	0.87 ug/ml	100
113) Fluridone	33.00	328	678	0.06 ug/ml	95
115) Indeno(1,2,3-cd)pyrene	35.86	276	31798m	0.79 ug/ml	74
116) Dibenz(a,h)anthracene	35.96	278	24379m	0.83 ug/ml	57
117) Benzo(g,h,i)perylene	36.65	276	31852m	0.94 ug/ml	26

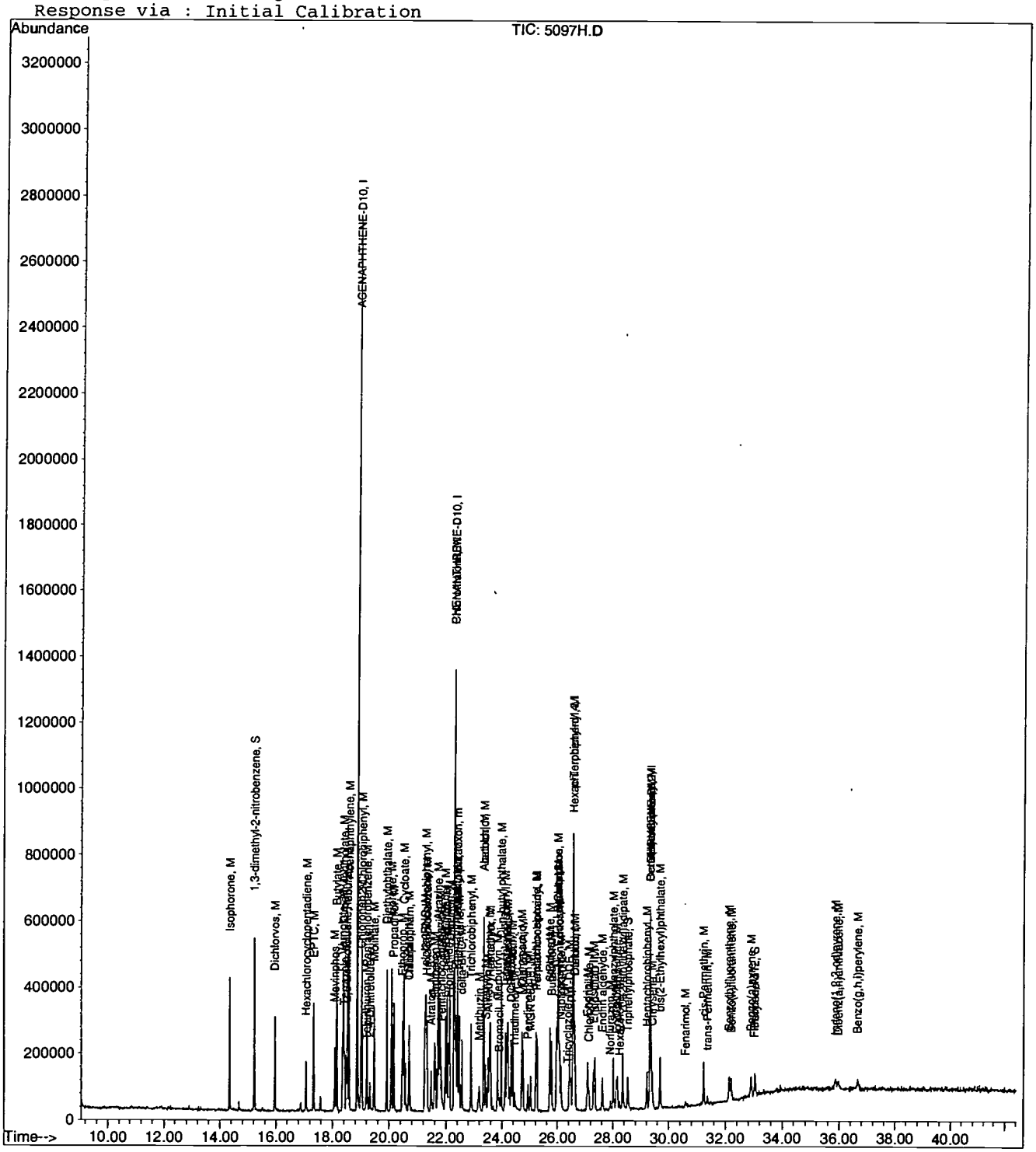
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HDATA~1\H091301\5097H.D
Acq On : 13 Sep 01 3:42 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:55 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5098H.D
Acq On : 13 Sep 01 4:33 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:56 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.87	164	1198600	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.29	188	1097241	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.34	240	392510	5.00	ug/ml	0.00
118) p-Terphenyl-d14	26.56	244	529385	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.21	134	196904	2.77	ug/ml	0.00
100) Triphenylphosphate	28.54	326	63431	3.20	ug/ml	0.00
114) Perylene-d12	33.02	264	116261	2.60	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.33	82	1792479	5.64	ug/ml	100
4) Dichlorvos	15.95	109	1175538	4.99	ug/ml#	68
5) Hexachlorocyclopentadiene	17.07	237	210537	5.93	ug/ml#	73
6) EPTC	17.33	128	646940	4.77	ug/ml#	13
7) Mevinphos	18.08	127	931777	4.54	ug/ml#	58
8) Butylate	18.15	146	413351	4.58	ug/ml#	1
9) Vernolate	18.35	128	764720	4.72	ug/ml#	40
10) Terrazole	18.41	211	169641	5.80	ug/ml#	85
11) Dimethylphthalate	18.38	163	1514530	4.74	ug/ml	100
12) Pebulate	18.51	128	790592	4.81	ug/ml#	7
13) 2,6-Dinitrotoluene	18.48	165	272302	14.02	ug/ml#	79
14) Acenaphthylene	18.56	152	2087391	4.86	ug/ml	100
15) Chloroneb	19.01	191	489742	5.12	ug/ml	94
16) 2-Chlorobiphenyl	19.05	188	1059422	5.06	ug/ml	100
17) Pentachlorobenzene	19.22	248	251172	5.54	ug/ml#	54
18) Tebuthiuron	19.20	156	179045	4.97	ug/ml#	79
19) 2,4-Dinitrotoluene	19.32	165	221134	17.86	ug/ml#	57
20) Molinate	19.48	126	979587	4.81	ug/ml#	72
21) Diethylphthalate	19.91	149	1660240	5.03	ug/ml	100
22) Fluorene	20.08	166	1270601	5.01	ug/ml	96
23) Propachlor	20.16	120	926701	5.46	ug/ml#	3
24) Ethoprop	20.46	158	391608	5.46	ug/ml#	23
25) Cycloate	20.51	154	699668	5.02	ug/ml#	1
26) Chlorpropham	20.68	127	492006	5.23	ug/ml#	50
27) Trifluralin	20.69	306	225232	17.32	ug/ml	98
28) alpha-BHC	21.26	181	286074	5.54	ug/ml	92
29) 2,3-Dichlorobiphenyl	21.29	222	605731	5.18	ug/ml#	49
31) Hexachlorobenzene	21.34	284	315016	5.60	ug/ml	90
32) Atraton	21.48	196	215535	4.83	ug/ml#	74
33) Prometon	21.60	210	248305	5.36	ug/ml#	80
34) Simazine	21.63	201	177453	5.44	ug/ml#	74
35) Atrazine	21.73	200	557879	11.01	ug/ml	100
36) beta-BHC	21.77	183	170495	5.49	ug/ml	87
37) Propazine	21.79	214	276173	5.50	ug/ml#	82
38) Pentachlorophenol	21.83	266	325663	46.75	ug/ml	99
39) g-BHC (Lindane)	21.97	181	232384	5.28	ug/ml#	83
40) Terbufos	22.04	231	324772	5.66	ug/ml#	1
41) Pronamide	22.09	173	501517	5.31	ug/ml#	91
42) Diazinon	22.13	137	353073	5.23	ug/ml#	90
43) Phenanthrene	22.34	178	1363500	5.06	ug/ml	99
44) Chlorothalonil	22.30	266	235991	5.91	ug/ml#	87
45) Disulfoton	22.40	88	1109445	6.54	ug/ml#	43
46) Anthracene	22.47	178	1271501	4.96	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5098H.D
Acq On : 13 Sep 01 4:33 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:56 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Methyl paraoxon	22.40	109	201362	10.36	ug/ml#	45
48) Terbacil	22.41	161	308554	6.56	ug/ml#	86
49) delta-BHC	22.56	181	162134	5.10	ug/ml#	77
50) Trichlorobiphenyl	22.90	256	373958	5.72	ug/ml	100
51) Acetochlor	23.34	146	234879	5.09	ug/ml#	52
52) Metribuzin	23.19	198	217531m	5.74	ug/ml	100
53) Alachlor	23.34	160	653199	12.03	ug/ml	87
54) Simetryn	23.42	213	304388	5.32	ug/ml#	89
55) Ametryn	23.50	227	282435	6.35	ug/ml#	84
56) Heptachlor	23.58	100	428585	5.75	ug/ml#	34
57) Prometryn	23.55	241	292855	5.59	ug/ml#	82
58) Terbutryn	23.84	226	272647	5.55	ug/ml	96
59) Di-n-butyl phthalate	23.96	149	2765236	5.57	ug/ml	99
60) Bromacil	23.92	205	126470	3.89	ug/ml#	73
61) Tetrachlorobiphenyl	24.12	292	246453	6.11	ug/ml	100
62) Aldrin	24.37	66	354569	6.16	ug/ml#	61
63) Metolachlor	24.18	162	939136	5.79	ug/ml	91
64) Chlorpyrifos	24.20	314	66796	6.38	ug/ml#	1
65) DCPA	24.32	301	251256	6.65	ug/ml#	84
66) Cyanazine	24.32	212	17956	4.97	ug/ml#	1
67) Triadimefon	24.45	57	518411	5.85	ug/ml#	39
68) Diphenamid	24.71	167	649900	5.60	ug/ml#	23
69) MGK 264-A	24.74	111	179136	2.68	ug/ml#	80
70) Pendimethalin	24.93	252	214666	22.45	ug/ml#	68
71) MGK 264-B	25.02	164	156525	2.99	ug/ml#	68
72) Heptachlor epoxide	25.22	81	221903	6.59	ug/ml#	66
73) Pentachlorobiphenyl	25.25	326	182613	6.78	ug/ml	100
74) g-Chlordane	25.74	375	144889	6.72	ug/ml	100
75) Stirofos	25.73	109	389472	5.75	ug/ml#	57
76) Butachlor	25.79	176	301041	6.57	ug/ml	100
77) a-Chlordane	26.01	373	136168	7.48	ug/ml#	84
78) Endosulfan I	26.03	195	80233	4.98	ug/ml#	76
79) trans-Nonachlor	26.07	409	151159	6.39	ug/ml#	86
80) Fenamiphos	26.03	303	42091	3.97	ug/ml#	53
81) Napropamide	26.12	72	796825	6.53	ug/ml#	67
82) Tricyclazole	26.37	189	19034	1.54	ug/ml#	80
83) p,p'-DDE	26.43	246	236568	5.61	ug/ml	96
84) Hexachlorobiphenyl	26.58	360	176908	6.43	ug/ml#	70
86) Pyrene	26.01	202	1030804	5.31	ug/ml#	76
87) Dieldrin	26.62	79	418436	6.72	ug/ml#	60
88) Carboxin	26.63	143	394551	4.92	ug/ml#	46
89) Endrin	27.09	81	102676	7.59	ug/ml#	27
90) Chlorobenzilate	27.13	139	382024	7.69	ug/ml#	87
91) Endosulfan II	27.31	195	49057	5.53	ug/ml	93
92) p,p'-DDD	27.35	235	358528	5.76	ug/ml#	88
93) Endrin aldehyde	27.61	67	126358	6.17	ug/ml#	46
94) Norflurazon	27.90	145	131749	4.47	ug/ml#	76
95) Butylbenzylphthalate	28.01	149	637680	5.30	ug/ml	93
96) Endosulfan sulfate	28.13	272	52024	6.54	ug/ml#	73
97) p,p'-DDT	28.17	235	278709	7.61	ug/ml#	80
98) Hexazinone	28.25	171	277167	3.96	ug/ml#	90
99) Di(2-ethylhexyl)adipate	28.34	129	710015	5.68	ug/ml#	63
101) Heptachlorobiphenyl	29.21	394	96980	6.57	ug/ml#	1
102) Benz(a)anthracene	29.32	228	577985	4.98	ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5098H.D
Acq On : 13 Sep 01 4:33 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:56 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
103) Octachlorobiphenyl	29.33	430	137576	6.39	ug/ml#	76
104) Methoxychlor	29.33	227	415896	6.60	ug/ml#	1
105) Chrysene	29.42	228	489367	5.04	ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.69	149	789363	5.24	ug/ml	98
107) Fenarimol	30.59	139	72932	4.15	ug/ml	99
108) cis-Permethrin	31.22	183	635684	4.31	ug/ml#	68
109) trans-Permethrin	31.37	183	91854	0.76	ug/ml#	79
110) Benzo(b)fluoranthene	32.12	252	364477	4.95	ug/ml#	76
111) Benzo(k)fluoranthene	32.18	252	368126	5.20	ug/ml#	84
112) Benzo(a)pyrene	32.89	252	310789	5.02	ug/ml	100
113) Fluridone	32.84	328	26774	2.06	ug/ml#	59
115) Indeno(1,2,3-cd)pyrene	35.86	276	253784m	5.12	ug/ml	73
116) Dibenz(a,h)anthracene	35.94	278	175285	4.85	ug/ml#	34
117) Benzo(g,h,i)perylene	36.65	276	214148	5.10	ug/ml#	34

(#) = qualifier out of range (m) = manual integration

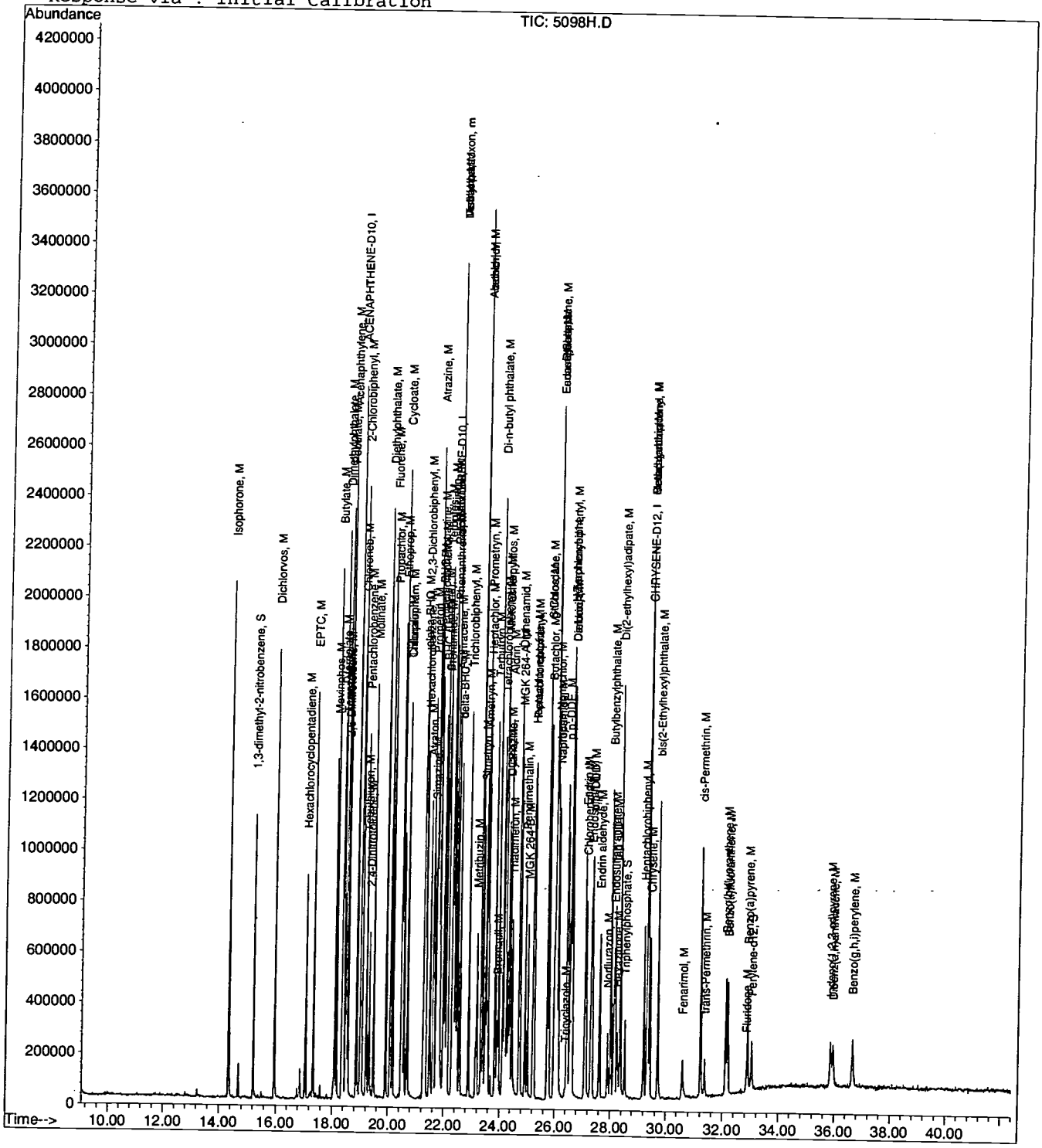
Quantitation Report

Data File : D:\HDATA~1\H091301\5098H.D
Acq On : 13 Sep 01 4:33 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:56 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5099H.D
Acq On : 13 Sep 01 5:25 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:57 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.87	164	1339746	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.29	188	1246156	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.34	240	428055	5.00	ug/ml	0.00
118) p-Terphenyl-d14	26.57	244	547590	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.21	134	773188	9.73	ug/ml	0.00
100) Triphenylphosphate	28.53	326	276772	12.80	ug/ml	0.00
114) Perylene-d12	33.02	264	466474	9.58	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.33	82	4004899	11.27	ug/ml	99
4) Dichlorvos	15.95	109	2771463	10.53	ug/ml#	69
5) Hexachlorocyclopentadiene	17.07	237	488498	12.31	ug/ml#	72
6) EPTC	17.33	128	1473450	9.71	ug/ml#	9
7) Mevinphos	18.09	127	2373405	10.34	ug/ml#	58
8) Butylate	18.15	146	922435	9.15	ug/ml#	1
9) Vernolate	18.35	128	1726386	9.53	ug/ml#	39
10) Terrazole	18.41	211	381488	11.67	ug/ml#	82
11) Dimethylphthalate	18.39	163	3265208	9.14	ug/ml	100
12) Pebulate	18.51	128	1736491	9.46	ug/ml#	2
13) 2,6-Dinitrotoluene	18.49	165	642818	29.61	ug/ml#	78
14) Acenaphthylene	18.57	152	4502960	9.38	ug/ml	100
15) Chloroneb	19.01	191	1008789	9.44	ug/ml	95
16) 2-Chlorobiphenyl	19.04	188	2103270	9.00	ug/ml	100
17) Pentachlorobenzene	19.22	248	506809	10.01	ug/ml#	47
18) Tebuthiuron	19.21	156	557941	13.87	ug/ml#	82
19) 2,4-Dinitrotoluene	19.32	165	565073	40.84	ug/ml#	57
20) Molinate	19.47	126	2171481	9.53	ug/ml#	73
21) Diethylphthalate	19.92	149	3534512	9.58	ug/ml	100
22) Fluorene	20.07	166	2721617	9.60	ug/ml	95
23) Propachlor	20.16	120	1989799	10.50	ug/ml#	3
24) Ethoprop	20.46	158	846301	10.56	ug/ml#	19
25) Cycloate	20.50	154	1474618	9.47	ug/ml#	1
26) Chlorpropham	20.68	127	1087161	10.34	ug/ml#	50
27) Trifluralin	20.70	306	517712	35.61	ug/ml	99
28) alpha-BHC	21.26	181	584153	10.13	ug/ml	92
29) 2,3-Dichlorobiphenyl	21.29	222	1280404	9.80	ug/ml#	51
31) Hexachlorobenzene	21.34	284	655322	10.27	ug/ml	94
32) Atraton	21.49	196	529666	10.45	ug/ml#	73
33) Prometon	21.61	210	528283	10.04	ug/ml#	86
34) Simazine	21.65	201	376828	10.18	ug/ml	86
35) Atrazine	21.74	200	1231845	21.40	ug/ml	100
36) beta-BHC	21.78	183	371712	10.54	ug/ml	93
37) Propazine	21.80	214	582613	10.21	ug/ml#	82
38) Pentachlorophenol	21.84	266	867500	109.65	ug/ml	98
39) g-BHC (Lindane)	21.98	181	462008	9.25	ug/ml#	80
40) Terbufos	22.04	231	654613	10.05	ug/ml#	1
41) Pronamide	22.10	173	1133749	10.58	ug/ml#	90
42) Diazinon	22.13	137	744965	9.72	ug/ml#	87
43) Phenanthrene	22.35	178	2892732	9.45	ug/ml	98
44) Chlorothalonil	22.31	266	512931	11.31	ug/ml#	89
45) Disulfoton	22.40	88	2306587	11.97	ug/ml#	42
46) Anthracene	22.47	178	2585468	8.89	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5099H.D
Acq On : 13 Sep 01 5:25 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:57 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.41	109	588723	26.67 ug/ml#	46
48) Terbacil	22.44	161	721421	13.50 ug/ml#	86
49) delta-BHC	22.57	181	354217	9.80 ug/ml#	79
50) Trichlorobiphenyl	22.90	256	782940	10.54 ug/ml	100
51) Acetochlor	23.35	146	459446	8.76 ug/ml#	54
52) Metribuzin	23.20	198	529167m	12.30 ug/ml	100
53) Alachlor	23.35	160	1318245	21.38 ug/ml	87
54) Simetryn	23.42	213	686142	10.56 ug/ml#	92
55) Ametryn	23.50	227	570848	11.31 ug/ml#	78
56) Heptachlor	23.58	100	853612	10.09 ug/ml#	36
57) Prometryn	23.56	241	626191	10.53 ug/ml#	83
58) Terbutryn	23.84	226	592743	10.63 ug/ml	95
59) Di-n-butyl phthalate	23.97	149	5657164	10.03 ug/ml	99
60) Bromacil	23.94	205	509799	13.81 ug/ml#	80
61) Tetrachlorobiphenyl	24.12	292	512919	11.19 ug/ml	100
62) Aldrin	24.38	66	672563	10.30 ug/ml#	63
63) Metolachlor	24.18	162	1954962	10.62 ug/ml	91
64) Chlorpyrifos	24.21	314	141432	11.89 ug/ml#	1
65) DCPA	24.33	301	531085	12.38 ug/ml#	85
66) Cyanazine	24.32	212	43004	10.48 ug/ml#	23
67) Triadimefon	24.45	57	1268084	12.60 ug/ml#	38
68) Diphenamid	24.71	167	1393383	10.57 ug/ml#	24
69) MGK 264-A	24.75	111	380328	5.01 ug/ml#	81
70) Pendimethalin	24.93	252	506913	46.68 ug/ml#	65
71) MGK 264-B	25.03	164	313004	5.26 ug/ml#	64
72) Heptachlor epoxide	25.21	81	439569	11.49 ug/ml#	69
73) Pentachlorobiphenyl	25.25	326	382208	12.50 ug/ml	100
74) g-Chlordane	25.73	375	306730	12.53 ug/ml	100
75) Stirofos	25.73	109	953201	12.39 ug/ml#	60
76) Butachlor	25.79	176	652401	12.53 ug/ml	100
77) a-Chlordane	26.02	373	272983	13.21 ug/ml#	80
78) Endosulfan I	26.04	195	170619	9.33 ug/ml#	75
79) trans-Nonachlor	26.07	409	324629	12.09 ug/ml#	71
80) Fenamiphos	26.05	303	151318	12.57 ug/ml#	72
81) Napropamide	26.13	72	1806953	13.05 ug/ml#	66
82) Tricyclazole	26.38	189	80940	5.75 ug/ml#	79
83) p,p'-DDE	26.43	246	503816	10.51 ug/ml	97
84) Hexachlorobiphenyl	26.58	360	363001	11.63 ug/ml#	71
86) Pyrene	26.02	202	2232870	10.54 ug/ml#	78
87) Dieldrin	26.62	79	816737	12.02 ug/ml#	59
88) Carboxin	26.63	143	913272	10.45 ug/ml#	44
89) Endrin	27.09	81	202356	13.71 ug/ml#	42
90) Chlorobenzilate	27.13	139	899800	16.61 ug/ml	89
91) Endosulfan II	27.31	195	99823	10.32 ug/ml	87
92) p,p'-DDD	27.35	235	784895	11.55 ug/ml#	91
93) Endrin aldehyde	27.61	67	296854	13.29 ug/ml#	44
94) Norflurazon	27.91	145	308351	9.59 ug/ml#	77
95) Butylbenzylphthalate	28.01	149	1437162	10.96 ug/ml	94
96) Endosulfan sulfate	28.13	272	116134	13.38 ug/ml#	77
97) p,p'-DDT	28.17	235	617774	15.47 ug/ml#	82
98) Hexazinone	28.25	171	748128	9.80 ug/ml#	89
99) Di(2-ethylhexyl)adipate	28.35	129	1497909	10.98 ug/ml#	64
101) Heptachlorobiphenyl	29.22	394	206653	12.83 ug/ml#	1
102) Benz(a)anthracene	29.33	228	1205659	9.53 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H091301\5099H.D
Acq On : 13 Sep 01 5:25 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:57 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
103) Octachlorobiphenyl	29.33	430	277442	11.81	ug/ml#	77
104) Methoxychlor	29.33	227	927660	13.50	ug/ml#	1
105) Chrysene	29.41	228	990785	9.36	ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.69	149	1694097	10.30	ug/ml	98
107) Fenarimol	30.59	139	190096	9.91	ug/ml	90
108) cis-Permethrin	31.21	183	1447051	9.00	ug/ml#	67
109) trans-Permethrin	31.37	183	220369	1.68	ug/ml#	81
110) Benzo(b)fluoranthene	32.12	252	793178	9.87	ug/ml#	80
111) Benzo(k)fluoranthene	32.18	252	753635	9.76	ug/ml#	83
112) Benzo(a)pyrene	32.89	252	674836	9.99	ug/ml	100
113) Fluridone	32.84	328	106749	7.54	ug/ml#	77
115) Indeno(1,2,3-cd)pyrene	35.86	276	551701m	10.21	ug/ml	68
116) Dibenz(a,h)anthracene	35.94	278	399434	10.14	ug/ml#	43
117) Benzo(g,h,i)perylene	36.66	276	475382	10.39	ug/ml#	32

(#) = qualifier out of range (m) = manual integration
5099H.D DRINKWI.M Mon Oct 01 03:41:03 2001

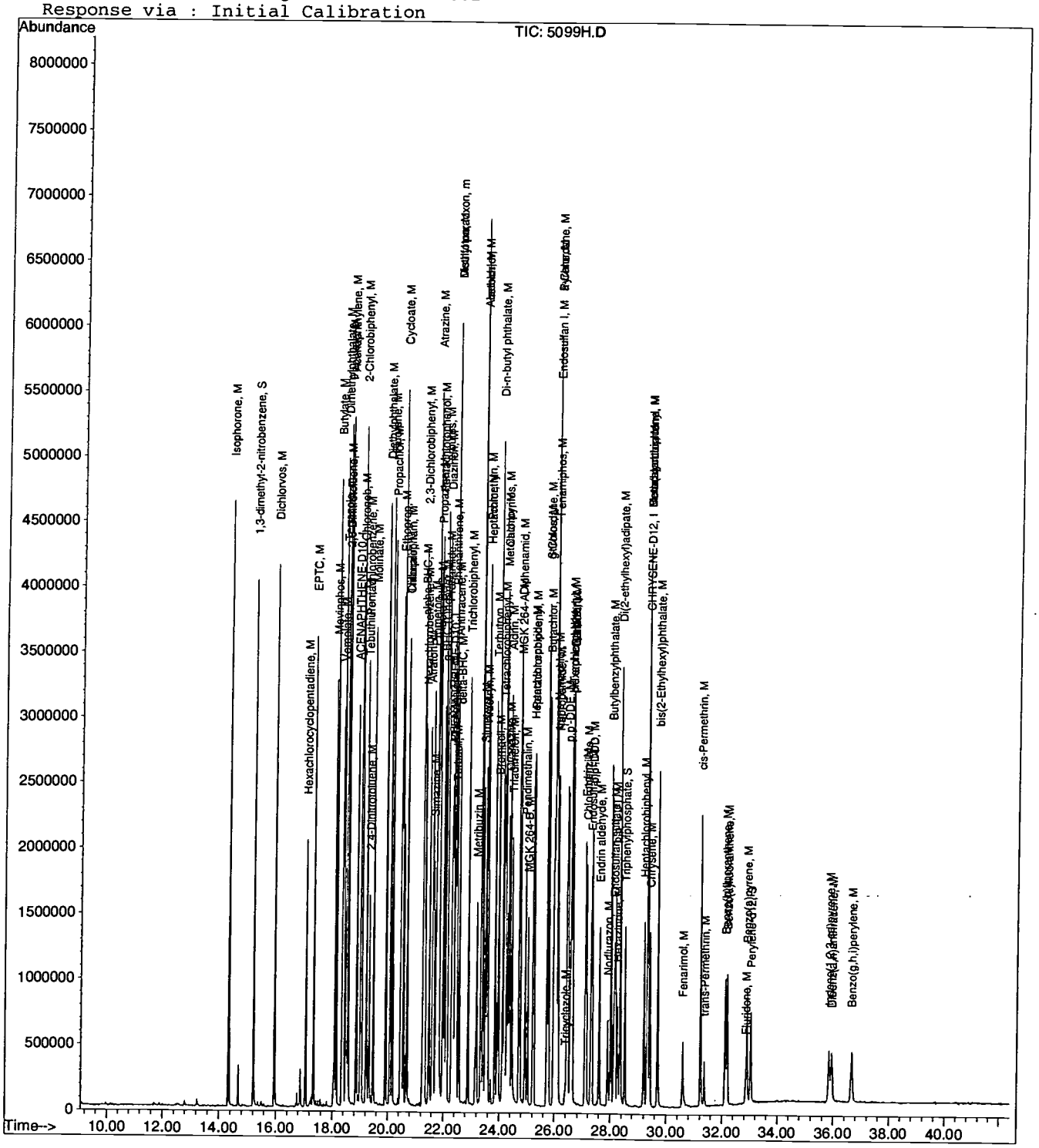
Quantitation Report

Data File : D:\HDATA~1\H091301\5099H.D
Acq On : 13 Sep 01 5:25 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Sep 27 1:57 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



5099H.D DRINKWI.M Mon Oct 01 03:41:09 2001

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: 5123H.D DFTPP Injection Date: 09/16/01

Instrument ID: #8 DFTPP Injection Time: 23:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	33.6
68	Less than 2.0% of mass 69	0.8 (1.4)1
69	Mass 69 Relative abundance	56.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	55.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	15.1
365	Greater than 0.75% of mass 198	2.7
441	Present, but less than mass 443	11.2
442	40.0 - 110.0% of mass 198	77.1
443	15.0 - 24.0% of mass 442	14.9 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD 2.0	SSTD 2.0	5124H.D	09/16/01	23:59
02	SBLK2300-744	SBLK2300-744	5125H.D	09/17/01	00:51
03	LCS #988	LCS #988	5126H.D	09/17/01	01:42
04	A565829	A565829	5127H.D	09/17/01	02:34
05	A565830	A565830	5128H.D	09/17/01	03:25
06	A565830 MS	A565830 MS	5129H.D	09/17/01	04:17
07	A566182	A566182	5130H.D	09/17/01	05:09
08	A565829	A565829	5131H.D	09/17/01	06:00
09	A566182	A566182	5132H.D	09/17/01	06:52

✓ LAS 9-18-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 5124H.D Date Analyzed: 09/16/01

Instrument ID: #8 Time Analyzed: 23:59

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	1128161	18.86	1065668	22.27	401722	29.33
	UPPER LIMIT	1466609 ~~2256322~~	18.36	1505308 ~~2131336~~	21.77	522239 ~~803444~~	28.83
	LOWER LIMIT	789713 ~~564081~~	19.36	745908 ~~532834~~	22.77	281205 ~~200861~~	29.83
	EPA SAMPLE NO.						
01	SBLK2300-74	654383*	18.86	571110*	22.27	214551*	29.33
02	LCS #988	577284*	18.86	559213*	22.27	222297*	29.33
03	A565829	445702*	18.86	489122*	22.27	174716*	29.33
04	A565830	431633*	18.86	488755*	22.27	173867*	29.34
05	A565830 MS	298193*	18.86	396134*	22.27	191554*	29.33
06	A566182	584425*	18.86	618845*	22.27	257956*	29.33
07	A565829	494119*	18.86	532655*	22.27	174713*	29.33
08	A566182	573842*	18.86	635450*	22.27	285095	29.33

IS1 = ACENAPHTHENE-D10
IS2 = PHENANTHRENE-D10
IS3 = CHRYSENE-D12
IS4 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

MS 9-18-1

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Date Injected: 17-Sep-01 Instrument: #8

	EPA SAMPLE NO.	S1 DMN #	S2 TPP #	S3 PED #	TOT OUT
01	SBLK2300-744	98	68	136 *	1
02	LCS #988	90	95	138 *	1
03	A565829	114	61	100	0
04	A565830	103	50	120	0
05	A565830 MS	93	75	112	0
06	A566182	97	79	133 *	1
07	A565829	108	69	112	0
08	A566182	88	76	136 *	1

QC LIMITS

S1	DMN	=	1,3-dimethyl-2-nitrobenzene	(50-130)
S2	TPP	=	Triphenylphosphate	(50-130)
S3	PED	=	Perylene-d12	(50-130)

✓ KS 9-18-1

Column to be used to flag recovery values

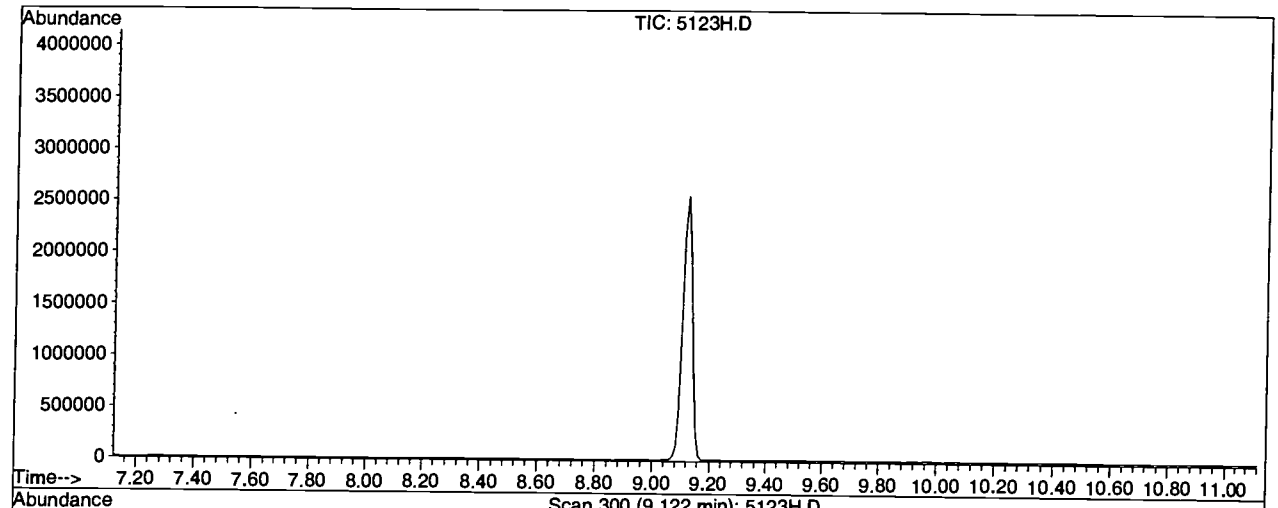
* Values outside of contract required QC limits

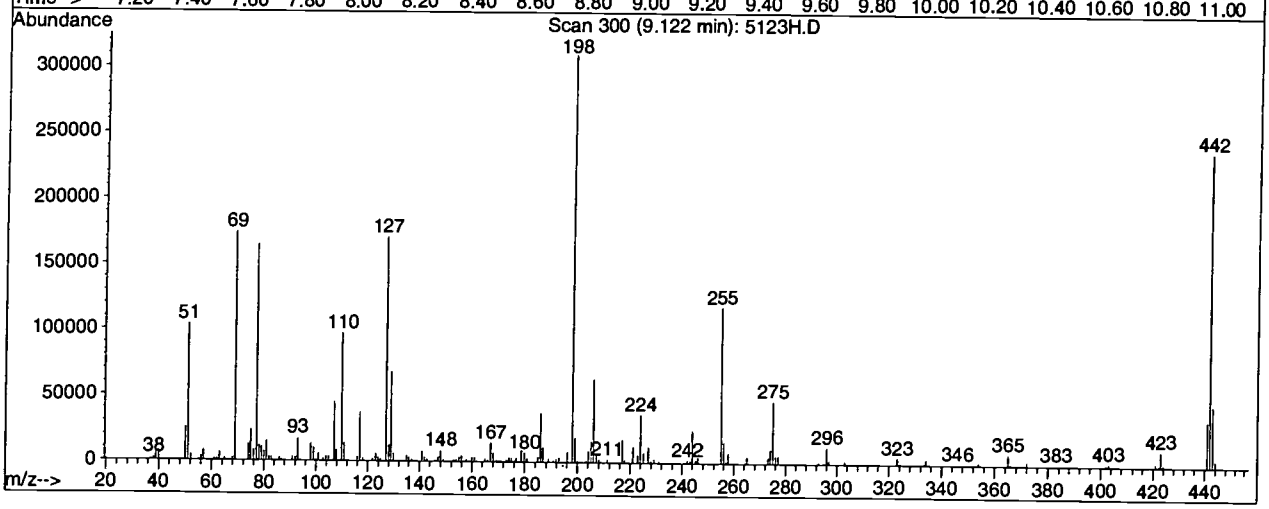
D Surrogate diluted out

DFTPP

Data File : D:\HDATA~1\H091601\5123H.D
Acq On : 16 Sep 01 11:24 pm
Sample : DFTPP
Misc :
MS Integration Params: rteint.p
Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00





Spectrum Information: Scan 300

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.6	103920	PASS
68	69	0.00	2	1.4	2450	PASS
69	198	0.00	100	56.3	174208	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	55.1	170688	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	309568	PASS
199	198	5	9	6.0	18592	PASS
275	198	10	60	15.1	46816	PASS
365	198	1	100	2.7	8337	PASS
441	443	0.01	100	75.5	34776	PASS
442	198	50	150	77.1	238784	PASS
443	442	15	24	19.3	46072	PASS

✓ LB 9-18-1

5123H.D DFTPPI.M Mon Sep 17 23:13:02 2001

Scan 300 (9.122 min): 5123H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.25	596	52.05	4338	72.75	991	84.85	1425
34.05	772	54.95	899	73.95	12500	85.95	2544
36.85	947	55.95	3284	74.85	23392	86.85	1323
37.25	582	56.85	8065	75.95	8482	87.95	712
38.05	2011	60.95	1675	76.95	164800	90.85	2978
38.95	6479	61.95	1789	77.95	11573	91.95	2947
39.95	7939	62.95	6484	78.95	10413	92.95	17040
43.85	1395	64.05	746	79.95	7177	93.85	1249
48.75	1063	64.95	2386	80.85	15189	96.05	1024
49.95	25032	67.95	2450	81.85	3008	97.95	13339
50.95	103920	68.95	174208	82.85	3160	98.95	10148

Scan 300 (9.122 min): 5123H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.85	1295	116.95	36944	129.85	5975	142.95	2313
100.95	5736	118.05	2439	130.85	673	145.75	940
102.75	2306	118.85	537	131.75	527	146.25	1068
103.95	3396	119.95	1253	133.65	928	147.05	3277
104.85	3502	121.85	2015	134.95	4383	147.95	8247
106.95	44680	122.95	5740	135.85	3008	148.95	1747
107.85	8507	123.85	2944	136.95	1850	150.05	703
109.85	97208	124.75	1704	138.05	634	150.85	834
110.85	13683	126.95	170688	138.85	1224	152.85	1481
111.95	1330	127.95	12137	140.95	7582	153.85	1853
115.85	3328	128.85	67968	141.95	3090	154.95	3259

Scan 300 (9.122 min): 5123H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.85	4525	169.05	1385	179.95	7071	193.95	528
156.95	856	169.95	663	180.95	2991	196.05	7752
157.75	1918	170.85	1066	183.85	645	197.95	309568
158.85	994	171.95	967	184.95	3725	198.95	18592
159.95	3101	172.95	1692	185.95	37136	199.95	1651
160.85	3104	173.95	3358	186.85	11038	201.35	848
161.65	796	175.05	3033	187.95	530	203.05	1371
164.85	2335	175.95	1106	188.95	2617	204.05	8577
165.85	1736	176.85	2930	190.75	1328	205.05	16019
166.95	14354	177.85	1057	191.95	2390	205.95	63184
167.95	6594	178.85	8843	192.95	3521	206.95	7428

Scan 300 (9.122 min): 5123H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.95	2295	227.95	1804	243.95	24264	264.95	4815
208.85	890	229.05	2812	245.15	2158	271.75	592
211.15	2258	230.95	1615	245.95	4677	273.05	4333
214.85	918	233.85	793	247.05	502	273.95	10585
216.85	17544	235.05	1099	248.85	1014	274.95	46816
217.85	2137	235.85	727	254.95	118752	275.95	5618
221.05	12090	236.85	1417	255.95	15626	276.95	5445
222.95	5811	238.85	694	256.95	1769	282.95	636
223.95	36208	240.85	752	257.95	7564	284.95	1343
225.05	7515	241.95	2174	258.75	717	292.95	1386
226.95	12013	243.05	2051	259.95	612	294.85	862

Scan 300 (9.122 min): 5123H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
296.05	12417	332.05	571	372.05	2937	443.95	4773
296.95	2585	333.25	1065	383.05	1008		
302.95	2279	334.05	4060	401.95	1017		
303.95	513	335.05	751	402.95	2077		
314.05	850	340.95	990	420.95	2424		
315.15	1309	345.95	1017	422.15	1407		
316.05	884	351.85	846	422.95	11564		
323.05	5031	352.85	1368	423.95	1813		
324.05	1015	353.95	2008	441.05	34776		

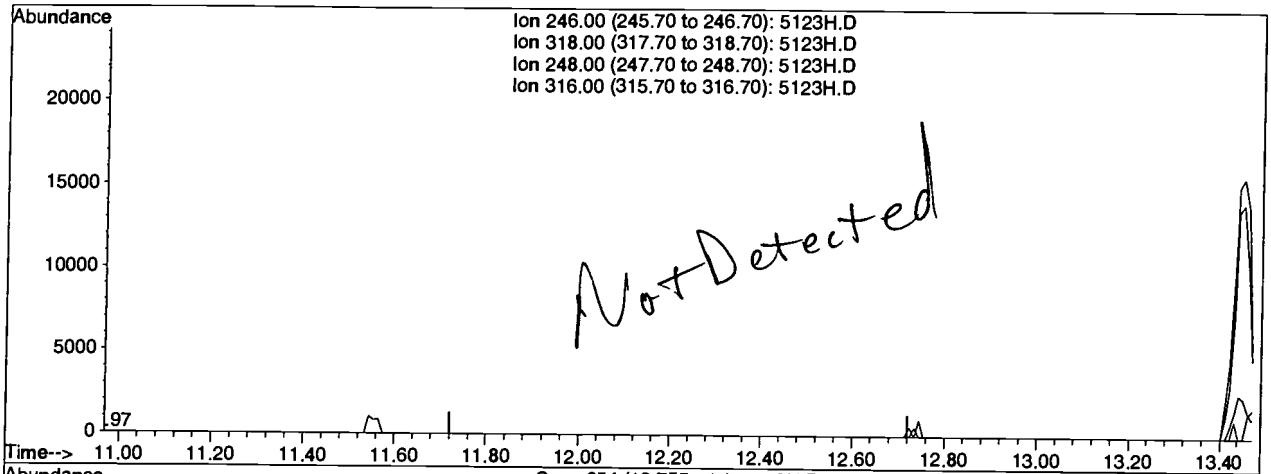
327.05	728	364.95	8337	442.05	238784
327.95	678	365.95	1162	443.05	46072

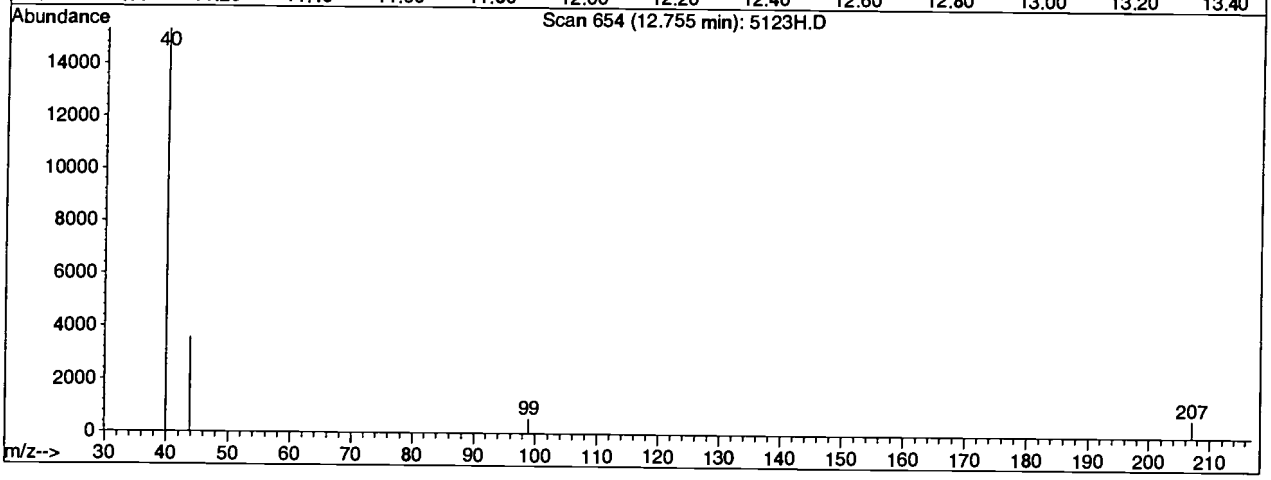
Quantitation Report

Data File : D:\HDATA~1\H091601\5123H.D
Acq On : 16 Sep 01 11:24 pm
Sample : DFTPP
Misc :
Quant Time: Sep 17 23:13 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5123H.D

(2) p,p'-DDE (M)

12.22min 0.00ug/ml d

response 0

Ion	Exp%	Act%
246.00	100	0.00
318.00	64.70	0.00#
248.00	61.60	0.00#
316.00	51.20	0.00#

1
LB
9.58.1

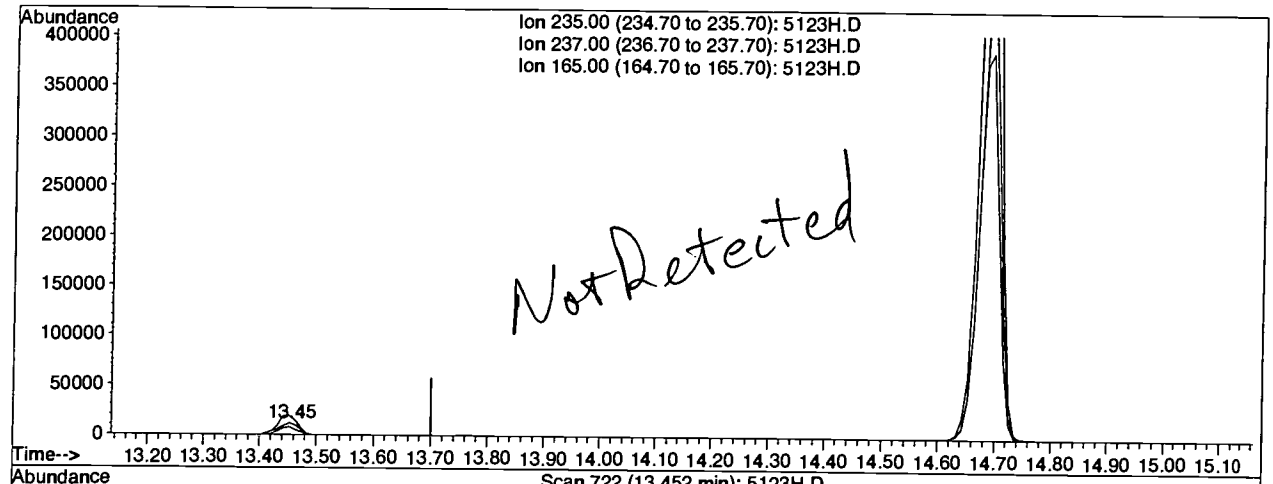
5123H.D DFTPPI.M Mon Sep 17 23:13:46 2001

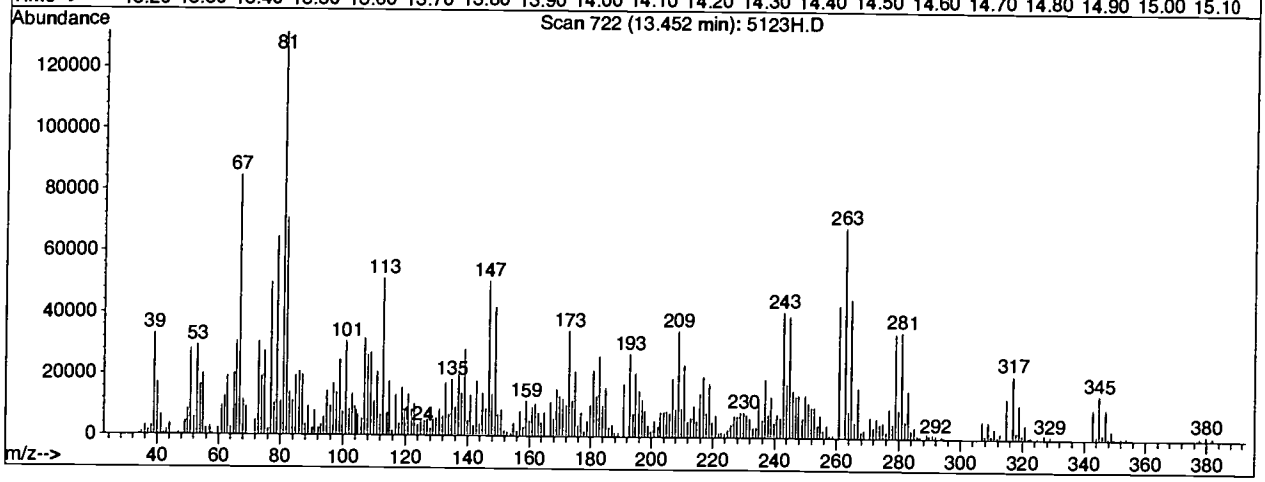
Quantitation Report

Data File : D:\HDATA~1\H091601\5123H.D
Acq On : 16 Sep 01 11:24 pm
Sample : DFTPP
Misc :
Quant Time: Sep 17 23:13 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5123H.D

(4) p,p'-DDD (M)

13.45min 0.11ug/ml

response 29213

Ion	Exp%	Act%
235.00	100	100
237.00	66.60	160.37#
165.00	48.60	60.49#
0.00	0.00	0.00

✓ LS 9-18-1

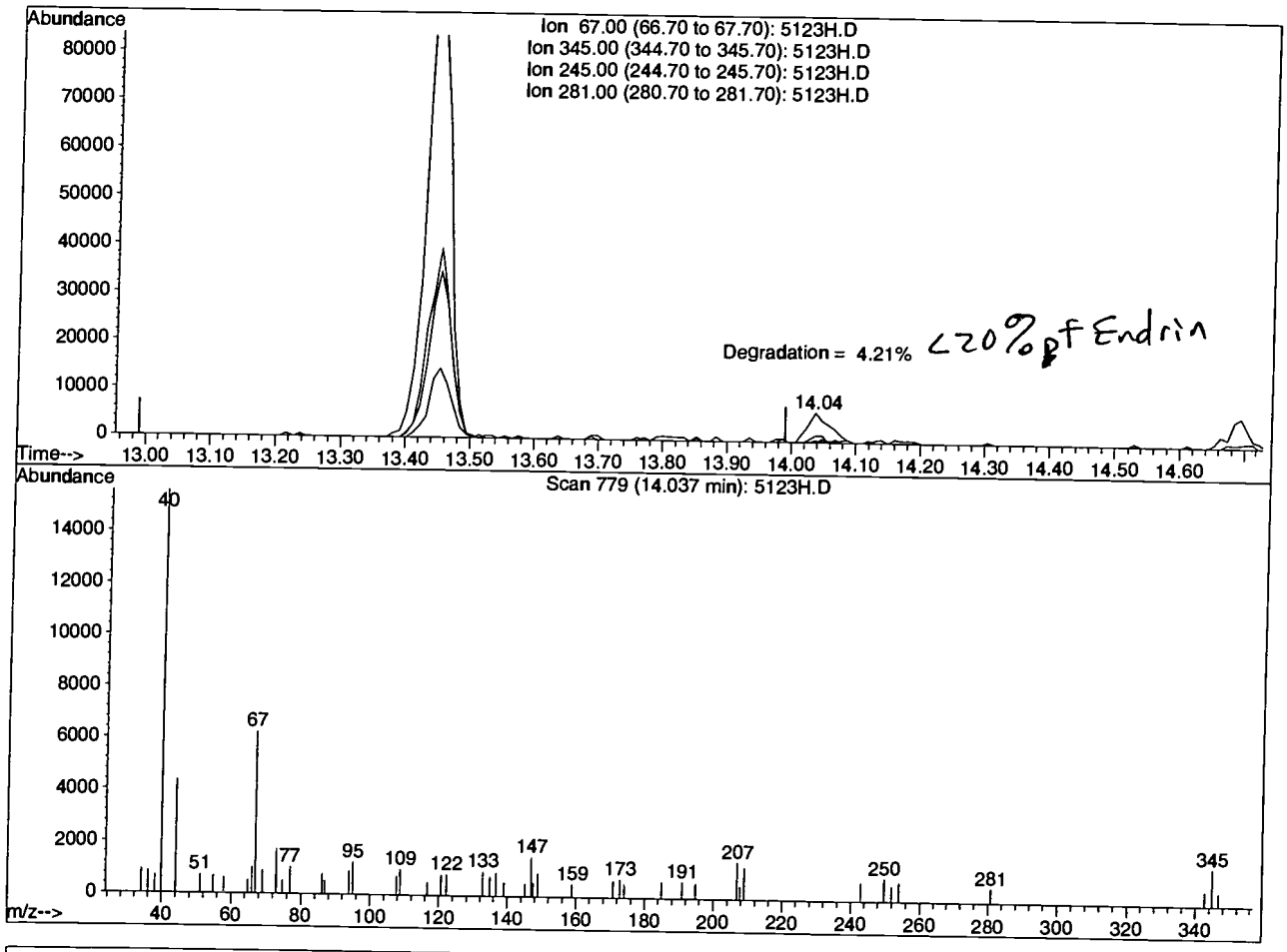
5123H.D DFTPPI.M Mon Sep 17 23:14:11 2001

Quantitation Report

Data File : D:\HDATA~1\H091601\5123H.D
Acq On : 16 Sep 01 11:24 pm
Sample : DFTPP
Misc :
Quant Time: Sep 17 23:14 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration



TIC: 5123H.D

(5) Endrin aldehyde (M)

14.04min 0.39ug/ml m

response 15119

Ion	Exp%	Act%
67.00	100	100
345.00	63.90	225.86#
245.00	49.00	633.13#
281.00	46.90	561.00#

✓ WB 9.18.1

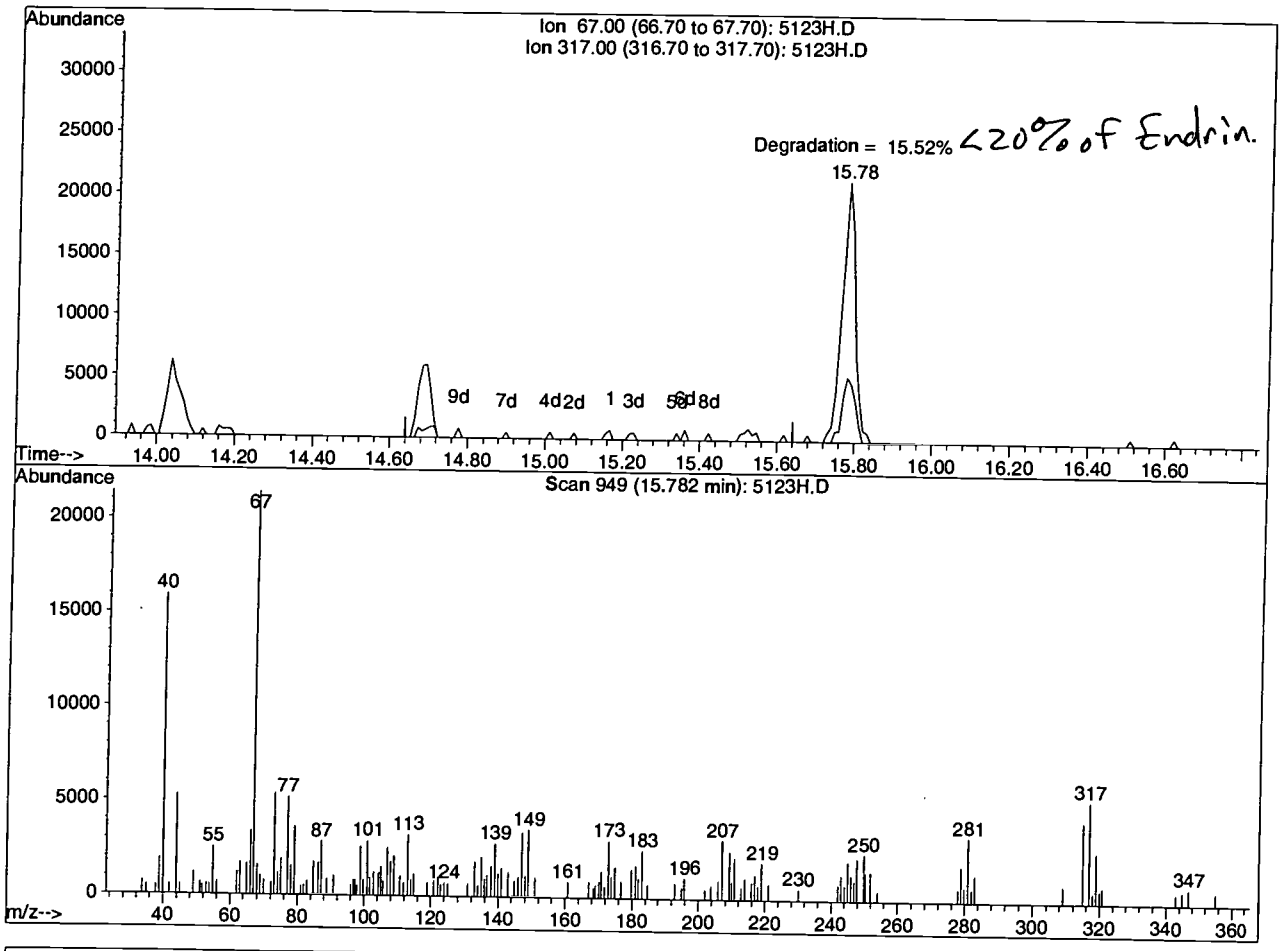
5123H.D DFTPPI.M Mon Sep 17 23:14:41 2001

Quantitation Report

Data File : D:\HDATA~1\H091601\5123H.D
Acq On : 16 Sep 01 11:24 pm
Sample : DFTPP
Misc :
Quant Time: Sep 17 23:14 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Single Level Calibration



TIC: 5123H.D

(7) Endrin Ketone

15.78min 0.00ug/ml m

response 50908

Ion	Exp%	Act%
67.00	100	100
317.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

5123H.D DFTPPI.M Mon Sep 17 23:15:17 2001

JB 9-18-1

Continuing Calibration Report

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Multiple Level Calibration

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

UCMR + Short list Only!

cal 2 = 5094H.D cal 0 = 5095H.D cal 1 = 5096H.D
cal 1 = 5097H.D cal 5 = 5098H.D

		Compound	AvgRF	CCRF	%Dev
1	I	ACENAPHTHENE-D10	1.00000	1.00000	0.0
2	M	Isophorone	1.51370	1.40280	7.3
3	S	1,3-dimethyl-2-nitrobenzene	0.30998	0.29107 Vale	6.1 ✓
4	M	Dichlorvos	0.92311	0.59275	35.8#
5	M	Hexachlorocyclopentadiene	0.16329	0.20151	23.4
6	M	EPTC	0.58612	0.57812	1.4 ✓
7	M	Mevinphos	0.71293	0.57751	19.0
8	M	Butylate	0.37271	0.35413	5.0
9	M	Vernolate	0.66524	0.64561	3.0
10	m	Terrazole	0.12170	0.13947	14.6
11	M	Dimethylphthalate	1.28386	1.30858	1.9
12	M	Pebulate	0.65641	0.65534	0.2
13	M	2,6-Dinitrotoluene	0.21718	0.20110	7.4 ✓
14	M	Acenaphthylene	1.76897	1.79576	1.5
15	M	Chloroneb	0.39737	0.40573	2.1
16	M	2-Chlorobiphenyl	0.87042	0.90156	3.6
17	M	Pentachlorobenzene	0.19527	0.20350	4.2
18	M	Tebuthiuron	0.53301	0.02678	95.0#
19	M	2,4-Dinitrotoluene	0.15590	0.16682	7.0 ✓
20	M	Molinate	0.83524	0.84913	1.7 ✓
21	M	Diethylphthalate	1.30056	1.32619	2.0
22	M	Fluorene	1.02634	1.06620	3.9
23	M	Propachlor	0.70043	0.71515	2.1
24	M	Ethoprop	0.27768	0.26747	3.7
25	M	Cycloate	0.56416	0.57305	1.6
26	M	Chlorpropham	0.38097	0.36858	3.3
27	M	Trifluralin	0.15043	0.15407	2.4
28	M	alpha-BHC	0.21523	0.21742	1.0
29	M	2,3-Dichlorobiphenyl	0.47953	0.50643	5.6
30	I	PHENANTHRENE-D10	1.00000	1.00000	0.0
31	M	Hexachlorobenzene	0.30325	0.26913	11.3
32	M	Atraton	0.16086	0.12852	20.1
33	M	Prometon	0.19320	0.18806	2.7
34	M	Simazine	0.15001	0.14725	1.8 ✓
35	M	Atrazine	0.22617	0.24584	8.7 ✓
36	M	beta-BHC	0.15998	0.16693	4.3
37	M	Propazine	0.22865	0.23732	3.8
38	M	Pentachlorophenol	0.06098	0.01916	68.6#
39	M	g-BHC (Lindane)	0.17117	0.20244	18.3
40	M	Terbufos	0.25571	0.24194	5.4
41	M	Pronamide	0.38204	0.40568	6.2
42	M	Diazinon	0.32874	0.30367	7.6
43	M	Phenanthrene	1.19608	1.22763	2.6
44	M	Chlorothalonil	0.18867	0.20080	6.4
45	M	Disulfoton	0.91875	0.90955	1.0
46	M	Anthracene	1.11063	1.11662	0.5
47	m	Methyl paraoxon	0.16989	0.16191	4.7
48	M	Terbacil	0.22596	0.21983	2.7 ✓
49	M	delta-BHC	0.15250	0.13731	10.0
50	M	Trichlorobiphenyl	0.33530	0.33602	0.2

(#) = Out of Range
5124H.D DRINKWI.M Mon Sep 17 23:05:36 2001

Continuing Calibration Report

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Multiple Level Calibration

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

cal 2 = 5094H.D cal 0 = 5095H.D cal 1 = 5096H.D
cal 1 = 5097H.D cal 5 = 5098H.D

		Compound	AvgRF	CCRF	%Dev
51	M	Acetochlor	0.18742	0.19326	3.1
52	M	Metribuzin	0.16008	0.14793	7.6
53	M	Alachlor	0.26928	0.26706	0.8
54	M	Simetryn	0.22587	0.22428	0.7
55	M	Ametryn	0.20023	0.18114	9.5
56	M	Heptachlor	0.39847	0.37732	5.3
57	M	Prometryn	0.23358	0.23290	0.3
58	M	Terbutryn	0.20485	0.20634	0.7
59	M	Di-n-butyl phthalate	2.37019	2.19993	7.2
60	M	Bromacil	0.12376	0.08645	30.1#
61	M	Tetrachlorobiphenyl	0.21990	0.19768	10.1
62	M	Aldrin	0.32299	0.29917	7.4
63	M	Metolachlor	0.74513	0.73403	1.5
64	M	Chlorpyrifos	0.05017	0.05539	10.4
65	M	DCPA	0.19513	0.19431	0.4
66	M	Cyanazine	0.01382	0.01743	26.1
67	M	Triadimefon	0.33632	0.34842	3.6
68	M	Diphenamid	0.49163	0.50133	2.0
69	M	MGK 264-A	0.32198	0.27559	14.4
70	M	Pendimethalin	0.14124	0.12609	10.7
71	M	MGK 264-B	0.26074	0.23282	10.7
72	M	Heptachlor epoxide	0.20728	0.19160	7.6
73	M	Pentachlorobiphenyl	0.15915	0.14896	6.4
74	M	g-Chlordane	0.11324	0.11851	4.7
75	M	Stirofos	0.28611	0.27592	3.6
76	M	Butachlor	0.22218	0.21815	1.8
77	M	a-Chlordane	0.11410	0.10503	7.9
78	M	Endosulfan I	0.07025	0.07111	1.2
79	M	trans-Nonachlor	0.13623	0.11741	13.8
80	M	Fenamiphos	0.03156	0.00676	78.6#
81	M	Napropamide	0.58012	0.58687	1.2
82	M	Tricyclazole	0.02261	0.00121	94.6#
83	M	p,p'-DDE	0.20238	0.20616	1.9
84	M	Hexachlorobiphenyl	0.14369	0.15825	10.1
85	I	CHRYSENE-D12	1.00000	1.00000	0.0
86	M	Pyrene	2.61776	2.52768	3.4
87	M	Dieldrin	1.12919	0.90817	19.6
88	M	Carboxin	0.85925	0.78441	8.7
89	M	Endrin	0.25946	0.17324	33.2#
90	M	Chlorobenzilate	0.70440	0.01624	97.7#
91	M	Endosulfan II	0.10717	0.12051	12.4
92	M	p,p'-DDD	0.89994	0.81570	9.4
93	M	Endrin aldehyde	0.33480	0.24760	26.0
94	M	Norflurazon	0.25790	0.23564	8.6
95	M	Butylbenzylphthalate	1.45068	1.34563	7.2
96	M	Endosulfan sulfate	0.12382	0.11512	7.0
97	M	p,p'-DDT	0.59394	0.60908	2.5
98	M	Hexazinone	0.55449	0.28061	49.4#
99	M	Di(2-ethylhexyl)adipate	1.55867	1.34397	13.8
100	S	Triphenylphosphate	0.25979	0.26460	1.9
101	M	Heptachlorobiphenyl	0.19370	0.22203	14.6

(#) = Out of Range

Continuing Calibration Report

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Multiple Level Calibration

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

cal 2 = 5094H.D cal 0 = 5095H.D cal 1 = 5096H.D
cal 1 = 5097H.D cal 5 = 5098H.D

		Compound	AvgRF	CCRF	%Dev
102	M	Benz(a)anthracene	1.43156	1.47021	2.7
103	M	Octachlorobiphenyl	0.28180	0.30200	7.2
104	M	Methoxychlor	0.86716	0.93473	7.8
105	M	Chrysene	1.18550	1.24095	4.7
106	M	bis(2-Ethylhexyl)phthalate	1.85080	1.47785	20.2
107	M	Fenarimol	0.16650	0.00576	96.5#
108	M	cis-Permethrin	1.68276	1.63659	2.7
109	M	trans-Permethrin	1.52801	1.35155	11.5
110	M	Benzo(b)fluoranthene	0.90193	0.89510	0.8
111	M	Benzo(k)fluoranthene	0.81309	0.85756	5.5
~~112~~	~~M~~	~~Benzo(a)pyrene~~	~~0.72086~~	~~0.78084~~	~~8.3~~
113	M	Fluridone	0.06157	0.01675	72.8#
114	S	Perylene-d12	0.51806	0.54095	4.4
115	M	Indeno(1,2,3-cd)pyrene	0.43272	0.51827	19.8
116	M	Dibenz(a,h)anthracene	0.34833	0.44060	26.5
117	M	Benzo(g,h,i)perylene	0.46411	0.51497	11.0
118	I	p-Terphenyl-d14	1.00000	1.00000	0.0

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5124H.D DRINKWI.M Mon Sep 17 23:05:43 2001

Continuing Calibration Report

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : I:\1\METHODS\DRINKWBP.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed May 09 10:46:33 2001
Response via : Multiple Level Calibration

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

cal 2 = 5094H.D cal 0 = 5100H.D cal 1 = 5096H.D
cal 1 = 5097H.D cal 5 = 5098H.D

		Compound	AvgRF	CCRF	%Dev
102	M	Benz(a)anthracene	1.52063	1.47021	3.3
103	M	Octachlorobiphenyl	0.28896	0.30200	4.5
104	M	Methoxychlor	0.83986	0.93473	11.3
105	M	Chrysene	1.23579	1.24095	0.4
106	M	bis(2-Ethylhexyl)phthalate	1.97946	1.47785	25.3
107	M	Fenarimol	0.20549	0.00576	97.2#
108	M	cis-Permethrin	1.55884	1.63659	5.0
109	M	trans-Permethrin	1.24978	1.35155	8.1
110	M	Benzo(b)fluoranthene	0.90449	0.89510	1.0
111	M	Benzo(k)fluoranthene	0.82283	0.85756	4.2
112	M	Benzo(a)pyrene	0.72726	0.78084	7.4
113	M	Fluridone	0.09110	0.01675	81.6#
114	S	Perylene-d12	0.47739	0.54095	13.3
115	M	Indeno(1,2,3-cd)pyrene	0.41913	0.51827	23.7
116	M	Dibenz(a,h)anthracene	0.35904	0.44060	22.7
117	M	Benzo(g,h,i)perylene	0.43138	0.51497	19.4
118	I	p-Terphenyl-d14	1.00000	1.00000	0.0

Only!

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5124H.D DRINKWBP.M Mon Sep 17 23:11:52 2001

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 17 0:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.86	164	1128161	5.00 ug/ml	-0.01
30) PHENANTHRENE-D10	22.27	188	1065668	5.00 ug/ml	-0.02
85) CHRYSENE-D12	29.33	240	401722	5.00 ug/ml	-0.02
118) p-Terphenyl-d14	26.54	244	528280	5.00 ug/ml	-0.02
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.20	134	131350	1.88 ug/ml	-0.01
100) Triphenylphosphate	28.52	326	42518	2.04 ug/ml	-0.01
114) Perylene-d12	33.01	264	86924	2.09 ug/ml	-0.02
Target Compounds					Qvalue
2) Isophorone	14.33	82	633034	1.85 ug/ml	98
4) Dichlorvos	15.95	109	267488	1.28 ug/ml#	72
5) Hexachlorocyclopentadiene	17.06	237	90936	2.47 ug/ml#	64
6) EPTC	17.33	128	260884	1.97 ug/ml#	14
7) Mevinphos	18.08	127	260609	1.62 ug/ml#	58
8) Butylate	18.13	146	159805	1.90 ug/ml#	1
9) Vernolate	18.34	128	291340	1.94 ug/ml#	36
10) Terrazole	18.40	211	62936	2.29 ug/ml#	81
11) Dimethylphthalate	18.37	163	590514	2.04 ug/ml	100
12) Pebulate	18.50	128	295730	2.00 ug/ml#	1
13) 2,6-Dinitrotoluene	18.47	165	90749	1.85 ug/ml#	77
14) Acenaphthylene	18.55	152	810362	2.03 ug/ml	100
15) Chloroneb	19.00	191	183093	2.04 ug/ml	95
16) 2-Chlorobiphenyl	19.03	188	406842	2.07 ug/ml	100
17) Pentachlorobenzene	19.21	248	91833	2.08 ug/ml#	51
18) Tebuthiuron	19.26	156	12085	0.10 ug/ml#	80
19) 2,4-Dinitrotoluene	19.31	165	75280	2.14 ug/ml#	56
20) Molinate	19.46	126	383180	2.03 ug/ml#	72
21) Diethylphthalate	19.90	149	598463	2.04 ug/ml	100
22) Fluorene	20.07	166	481139	2.08 ug/ml	96
23) Propachlor	20.14	120	322721	2.04 ug/ml#	3
24) Ethoprop	20.44	158	120701	1.93 ug/ml#	30
25) Cycloate	20.49	154	258597	2.03 ug/ml#	1
26) Chlorpropham	20.67	127	166326	1.93 ug/ml#	53
27) Trifluralin	20.68	306	69526	2.05 ug/ml	96
28) alpha-BHC	21.24	181	98115	2.02 ug/ml#	85
29) 2,3-Dichlorobiphenyl	21.27	222	228534	2.11 ug/ml#	49
31) Hexachlorobenzene	21.32	284	114721	1.77 ug/ml#	89
32) Atraton	21.46	196	54785	1.60 ug/ml#	80
33) Prometon	21.58	210	80163	1.95 ug/ml#	79
34) Simazine	21.61	201	62768	1.96 ug/ml#	81
35) Atrazine	21.70	200	209584	4.35 ug/ml	100
36) beta-BHC	21.75	183	71155	2.09 ug/ml	97
37) Propazine	21.77	214	101161	2.08 ug/ml#	79
38) Pentachlorophenol	21.81	266	32663	2.51 ug/ml	90
39) g-BHC (Lindane)	21.96	181	86295	2.37 ug/ml#	82
40) Terbufos	22.02	231	103130	1.89 ug/ml#	1
41) Pronamide	22.07	173	172926	2.12 ug/ml#	87
42) Diazinon	22.11	137	129445	1.85 ug/ml#	88
43) Phenanthrene	22.33	178	523299	2.05 ug/ml	99
44) Chlorothalonil	22.29	266	85596	2.13 ug/ml#	88
45) Disulfoton	22.39	88	387712	1.98 ug/ml#	42
46) Anthracene	22.46	178	475979	2.01 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 17 0:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.39	109	69015	1.91 ug/ml#	41
48) Terbacil	22.39	161	93708	1.95 ug/ml#	82
49) delta-BHC	22.56	181	58530	1.80 ug/ml#	77
50) Trichlorobiphenyl	22.88	256	143236	2.00 ug/ml	100
51) Acetochlor	23.33	146	82381	2.06 ug/ml#	53
52) Metribuzin	23.17	198	63056	1.85 ug/ml	100
53) Alachlor	23.33	160	227678	3.97 ug/ml	83
54) Simetryn	23.40	213	95604	1.99 ug/ml#	90
55) Ametryn	23.48	227	77212	1.81 ug/ml#	65
56) Heptachlor	23.57	100	160838	1.89 ug/ml#	35
57) Prometryn	23.53	241	99276	1.99 ug/ml#	80
58) Terbutryn	23.83	226	87954	2.01 ug/ml	95
59) Di-n-butyl phthalate	23.95	149	937758	1.86 ug/ml	98
60) Bromacil	23.89	205	36852	1.40 ug/ml#	75
61) Tetrachlorobiphenyl	24.10	292	84263	1.80 ug/ml	100
62) Aldrin	24.36	66	127525	1.85 ug/ml#	57
63) Metolachlor	24.16	162	312892	1.97 ug/ml	89
64) Chlorpyrifos	24.19	314	23609	2.21 ug/ml#	1
65) DCPA	24.30	301	82830	1.99 ug/ml#	83
66) Cyanazine	24.29	212	7431	2.52 ug/ml#	1
67) Triadimefon	24.44	57	148518	2.07 ug/ml#	36
68) Diphenamid	24.70	167	213700	2.04 ug/ml#	25
69) MGK 264-A	24.72	111	58737	0.86 ug/ml#	77
70) Pendimethalin	24.91	252	53747	1.79 ug/ml#	69
71) MGK 264-B	25.00	164	49622	0.89 ug/ml#	68
72) Heptachlor epoxide	25.20	81	81673	1.85 ug/ml#	61
73) Pentachlorobiphenyl	25.23	326	63498	1.87 ug/ml	100
74) g-Chlordane	25.72	375	50517	2.09 ug/ml	100
75) Stirofos	25.72	109	117616	1.93 ug/ml#	54
76) Butachlor	25.77	176	92989	1.96 ug/ml	100
77) a-Chlordane	25.99	373	44770	1.84 ug/ml#	74
78) Endosulfan I	26.01	195	30313	2.02 ug/ml	87
79) trans-Nonachlor	26.06	409	50049	1.72 ug/ml#	36
80) Fenamiphos	26.03	303	2881	0.43 ug/ml#	1
81) Napropamide	26.10	72	250165	2.02 ug/ml#	69
82) Tricyclazole	26.38	189	517	0.11 ug/ml#	1
83) p,p'-DDE	26.42	246	87878	2.04 ug/ml	93
84) Hexachlorobiphenyl	26.56	360	67456	2.20 ug/ml#	80
86) Pyrene	25.99	202	406170	1.93 ug/ml#	79
87) Dieldrin	26.60	79	145933	1.61 ug/ml#	59
88) Carboxin	26.61	143	126046	1.83 ug/ml#	44
89) Endrin	27.07	81	27837	1.34 ug/ml#	21
91) Endosulfan II	27.29	195	19364	2.25 ug/ml	88
92) p,p'-DDD	27.34	235	131074	1.81 ug/ml#	89
93) Endrin aldehyde	27.60	67	39786	1.48 ug/ml#	50
94) Norflurazon	27.89	145	37864	1.83 ug/ml#	72
95) Butylbenzylphthalate	27.99	149	216228	1.86 ug/ml	96
96) Endosulfan sulfate	28.10	272	18498	1.86 ug/ml#	79
97) p,p'-DDT	28.15	235	97872	2.05 ug/ml#	76
98) Hexazinone	28.24	171	45091	1.01 ug/ml#	74
99) Di(2-ethylhexyl)adipate	28.32	129	215961	1.72 ug/ml#	66
101) Heptachlorobiphenyl	29.20	394	35678	2.29 ug/ml#	1
102) Benz(a)anthracene	29.31	228	236247	2.05 ug/ml	97
103) Octachlorobiphenyl	29.31	430	48528	2.14 ug/ml#	76

(#) = qualifier out of range (m) = manual integration
5124H.D DRINKWI.M Mon Sep 17 23:06:05 2001

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 17 0:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
104)	Methoxychlor	29.31	227	150200	2.16 ug/ml#	56
105)	Chrysene	29.41	228	199407	2.09 ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.67	149	237474	1.60 ug/ml	98
108)	cis-Permethrin	31.20	183	226164	1.67 ug/ml#	65
109)	trans-Permethrin	31.34	183	30405	0.25 ug/ml#	82
110)	Benzo(b)fluoranthene	32.10	252	143833	1.98 ug/ml#	80
111)	Benzo(k)fluoranthene	32.17	252	137801	2.11 ug/ml#	86
112)	Benzo(a)pyrene	32.87	252	125473	2.17 ug/ml	100
113)	Fluridone	32.84	328	2692	0.54 ug/ml#	80
115)	Indeno(1,2,3-cd)pyrene	35.85	276	83280	2.40 ug/ml#	81
116)	Dibenz(a,h)anthracene	35.93	278	70800	2.53 ug/ml#	46
117)	Benzo(g,h,i)perylene	36.63	276	82750	2.22 ug/ml#	30

(#) = qualifier out of range (m) = manual integration
5124H.D DRINKWI.M Mon Sep 17 23:06:05 2001

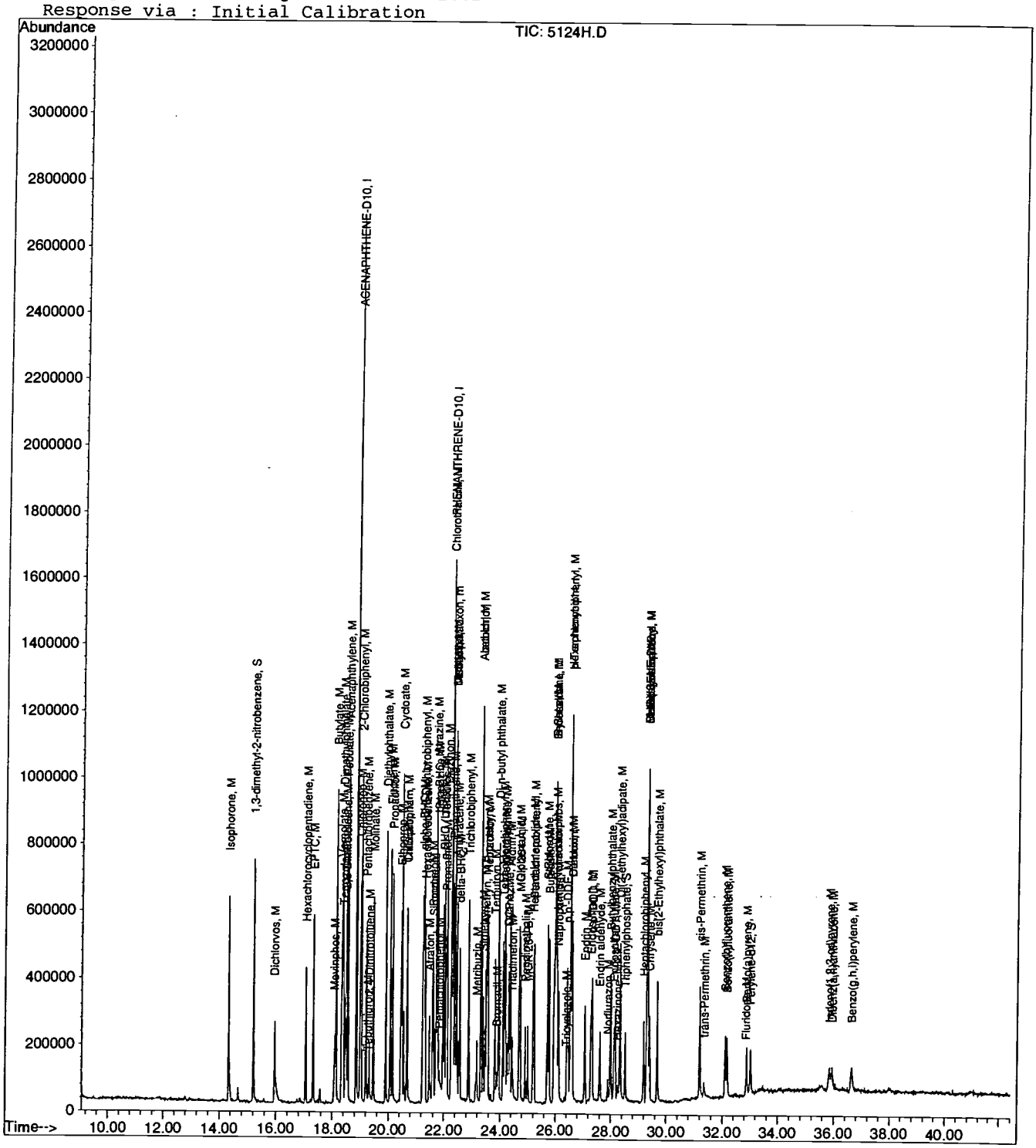
Quantitation Report

Data File : D:\HDATA~1\H091601\5124H.D
Acq On : 16 Sep 01 11:59 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Sep 17 0:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



R419678

Heritage Environmental Services
QC Report

Q1280153 4

QC Type	BLA02	Duplicate Sample ID		Data File	5125H.D
Date Entered	14Sep2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	17Sep2001 00:51:00	Method 0	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE			0.10	BDL		
976	DICHLORVOS			0.10	BDL		
399	HEXACHLOROCYCLOPENTADIENE			0.10	BDL		
346	EPTC (ERADICANE)			0.10	BDL		
1007	MEVINPHOS			0.10	BDL		
1022	BUTYLATE (SUTAN PLUS)			0.10	BDL		
766	VERNOLATE			0.10	BDL		
2258	ETRIDIAZOLE			0.10	BDL		
310	DIMETHYLPHTHALATE			0.10	BDL		
571	PEBULATE (TILLAM)			0.10	BDL		
50	2,6-DINITROTOLUENE			0.10	BDL		
98	ACENAPHTHYLENE			0.10	BDL		
2257	CHLORNEB			0.10	BDL		
53	(1) 2-CHLOROBIPHENYL			0.10	BDL		
573	PENTACHLOROBENZENE			0.10	BDL		
821	TEBUTHIURON			0.10	BDL		
48	2,4-DINITROTOLUENE			0.10	BDL		
482	MOLINATE			0.10	BDL		
306	DIETHYLPHTHALATE			0.10	BDL		
366	FLUORENE			0.10	BDL		
621	PROPACHLOR			0.10	BDL		
1000	ETHOPROP			0.10	BDL		
996	CYCLOATE			0.10	BDL		
978	CHLOROPROPHAM			0.10	BDL		
753	TRIFLURALIN			0.10	BDL		
117	ALPHA-BHC			0.10	BDL		
952	(5) 2,3-DICHLOROBIPHENYL			0.10	BDL		
397	HEXACHLOROBENZENE			0.10	BDL		
994	ATRATON			0.10	BDL		
619	PROMETON (PRAMITOL)			0.10	BDL		
667	SIMAZINE (PRINCEP)			0.10	BDL		
143	ATRAZINE			0.10	BDL		
168	BETA-BHC			0.20	BDL		
622	PROPAZINE (MILOGARD)			0.10	BDL		
577	PENTACHLOROPHENOL			0.10	BDL		
380	GAMMA-BHC (LINDANE)			0.40	BDL		
700	TERBUFOS (COUNTER)			0.10	BDL		
1025	PRONAMIDE			0.10	BDL		
911	DIAZINON			0.10	BDL		
597	PHENANTHRENE			0.10	BDL		
1030	CHLOROTHALONIL (BRAVO)			0.10	BDL		
328	DISULFOTON			0.10	BDL		
128	ANTHRACENE			0.10	BDL		
1006	METHYLPARAOXON			0.10	BDL		
1013	TERBACIL			0.10	BDL		
290	DELTA-BHC			0.10	BDL		
959	2,4,5-TRICHLOROBIPHENYL			0.10	BDL		
3473	ACETOCHLOR			0.10	BDL		
481	METRIBUZIN (LEXONE)			0.10	BDL		
110	ALACHLOR			0.10	BDL		
1011	SIMETRYN			0.20	BDL		
993	AMETRYN			0.10	BDL		
391	HEPTACHLOR			0.10	BDL		

WS 9-10-1

QC Report

QC Type	BLA02	Duplicate Sample ID		Data File	5125H.D
Date Entered	14Sep2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	17Sep2001 00:51:00	Method 0	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
1024	PROMETRYN (CAPAROL)			0.10	BDL		
1014	TERBUTRYN			0.10	BDL		
329	DI-N-BUTYLPHTHALATE			0.10	BDL		
1021	BROMACIL			0.10	BDL		
958	2,2',4,4'-TETRACHLOROBIPHENYL			0.10	BDL		
111	ALDRIN			0.10	BDL		
480	METOLACHLOR (DUAL)			0.10	BDL		
238	CHLOROPYRIFOS (DURSBAN)			0.10	BDL		
912	DCPA (DACTHAL)			0.10	BDL		
268	CYANAZINE (BLADEX)			0.10	BDL		
1015	TRIADIMEFON			0.10	BDL		
997	DIPHENAMID			0.10	BDL		
1008	MGK 264			0.05	BDL		
3575	MGK 264-B			0.05	BDL		
572	PENDIMETHALIN			0.10	BDL		
1008	MGK 264			0.05	BDL		
3575	MGK 264-B			0.05	BDL		
394	HEPTACHLOR EPOXIDE			0.10	BDL		
957	2,2',3',4,6-PENTACHLOROBIPHENYL			0.10	BDL		
381	GAMMA-CHLORDANE			0.10	BDL		
1012	STIROFOS			0.10	BDL		
995	BUTACHLOR			0.10	BDL		
118	ALPHA-CHLORDANE			0.10	BDL		
119	ALPHA-ENDOSULFAN			0.10	BDL		
749	TRANS-NONACHLOR			0.10	BDL		
1001	FENAMIPHOS			0.10	BDL		
1009	NAPROPAMIDE			0.10	BDL		
1016	TRICYCLAZOLE			0.10	BDL		
78	4,4'-DDE			0.10	BDL		
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL			0.10	BDL		
624	PYRENE			0.10	BDL		
303	DIELDRIN			0.10	BDL		
1023	CARBOXIN			0.10	BDL		
338	ENDRIN			0.10	BDL		
232	CHLOROBENZILATE			0.10	BDL		
169	BETA-ENDOSULFAN			0.10	BDL		
77	4,4'-DDD			0.10	BDL		
339	ENDRIN ALDEHYDE			0.10	BDL		
1010	NORFLURAZON			0.10	BDL		
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTI			0.10	BDL		
337	ENDOSULFAN SULFATE			0.10	BDL		
79	4,4'-DDT			0.10	BDL		
1004	HEXAZINONE			0.10	BDL		
953	DI(2-ETHYLHEXYL)ADIPATE			0.10	BDL		
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL			0.10	BDL		
155	BENZO(A)ANTHRACENE			0.10	BDL		
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL			0.10	BDL		
474	METHOXYCHLOR			0.10	BDL		
245	CHRYSENE			0.10	BDL		
185	BIS(2-ETHYLHEXYL)PHTHALATE			0.10	BDL		
1002	FENARIMOL			0.10	BDL		
2259	CIS-PERMETHRIN			0.10	BDL		
2260	TRANS-PERMETHRIN			0.10	BDL		
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI			0.10	BDL		
159	BENZO(K)FLUORANTHENE			0.10	BDL		

QC Report

QC Type BLA02
Date Entered 14Sep2001
Analysis Date/Time 17Sep2001 00:51:00

Duplicate Sample ID
Duplicate QCSampleID
Method 0 Matrix 1

Data File 5125H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
156	BENZO(A)PYRENE			0.10	BDL		
1003	FLURIDONE			0.10	BDL		
413	INDENO(1,2,3-CD)PYRENE			0.10	BDL		
294	DIBENZ(A,H)ANTHRACENE			0.10	BDL		
158	BENZO(G,H,I)PERYLENE			0.10	BDL		
2949	2-NITRO-M-XYLENE					98	
2894	TRIPHENYL ESTER PHOSPHORIC ACID					68	
3474	PERYLENE-D12					136	

Comments

Sample failed method internal standard area criteria. Sample reanalyzed with no improvement.

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H091601\5125H.D
Acq On : 17 Sep 01 12:51 am
Sample : SBLK2300-744
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Sep 17 22:39 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.86	164	654383	5.00 ug/ml	-0.01
30) PHENANTHRENE-D10	22.27	188	571110	5.00 ug/ml	-0.02
85) CHRYSENE-D12	29.33	240	214551	5.00 ug/ml	-0.02
118) p-Terphenyl-d14	26.54	244	412116	5.00 ug/ml	-0.02
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.20	134	197870	4.88 ug/ml	-0.01
100) Triphenylphosphate	28.51	326	38129	3.42 ug/ml	-0.02
114) Perylene-d12	33.02	264	151612	6.82 ug/ml	-0.01
Target Compounds					Qvalue
13) 2,6-Dinitrotoluene	18.86	165	74439	2.62 ug/ml#	34
18) Tebuthiuron	18.86	156	31851	0.46 ug/ml#	64
66) Cyanazine	24.34	212	181	0.11 ug/ml#	43
83) p,p'-DDE	26.54	246	6039	0.26 ug/ml#	23
89) Endrin	27.10	81	1717	0.15 ug/ml#	64

(#) = qualifier out of range (m) = manual integration
5125H.D DRINKWI.M Mon Sep 17 22:39:50 2001

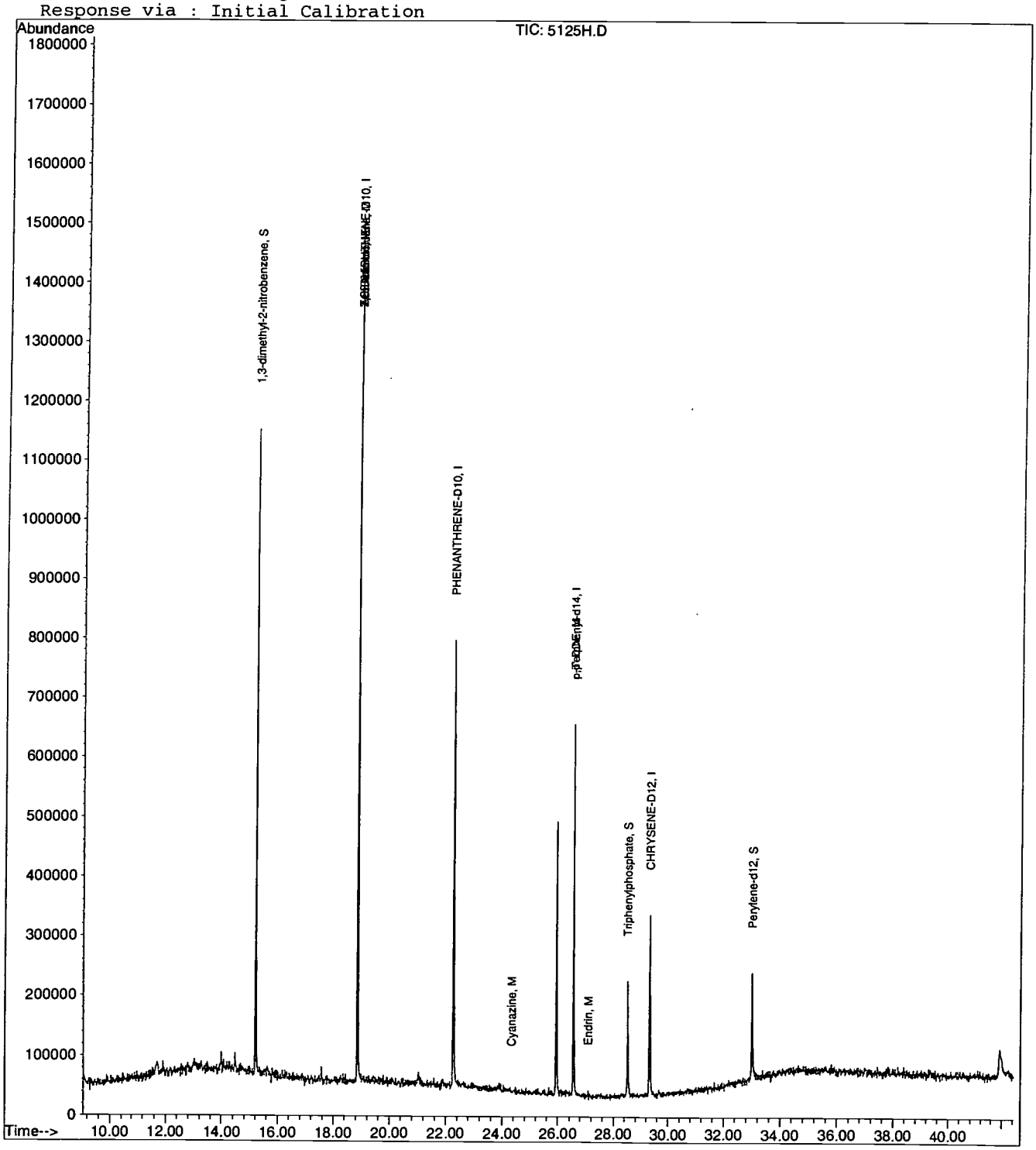
Quantitation Report

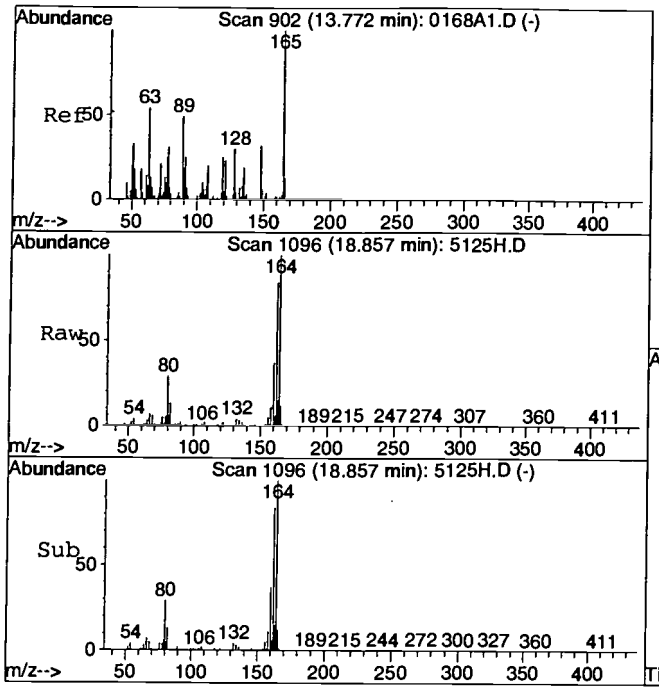
Data File : D:\HDATA~1\H091601\5125H.D
Acq On : 17 Sep 01 12:51 am
Sample : SBLK2300-744
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Sep 17 22:39 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

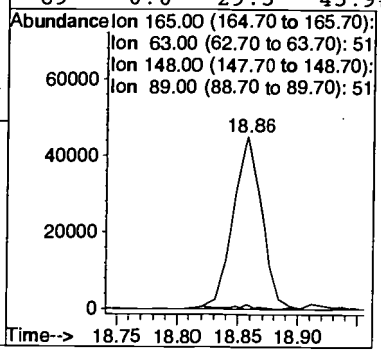




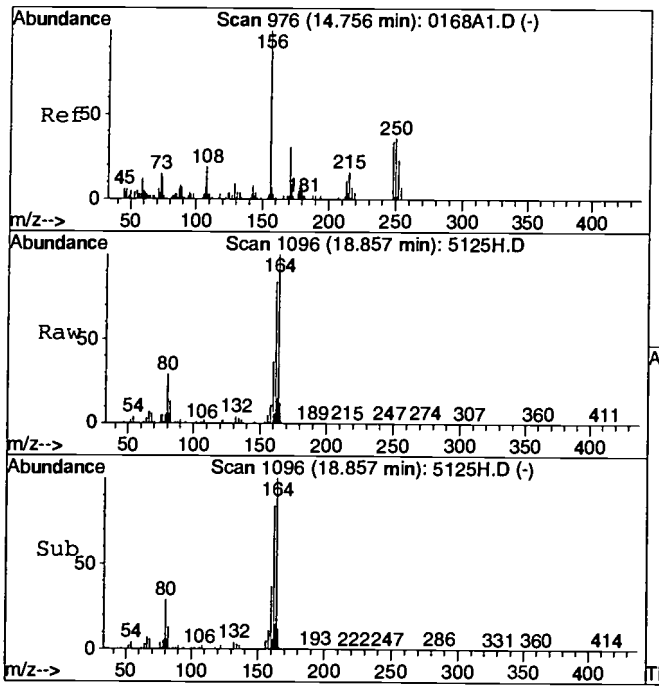
#13
2,6-Dinitrotoluene
Concen: 2.62 ug/ml
RT: 18.86 min Scan# 1096
Delta R.T. 0.37 min
Lab File: 5125H.D
Acq: 17 Sep 01 12:51 am

Tgt Ion:165 Resp: 74439

Ion	Ratio	Lower	Upper
165	100		
63	0.9	40.7	61.1#
148	0.3	29.4	44.2#
89	0.0	29.3	43.9#



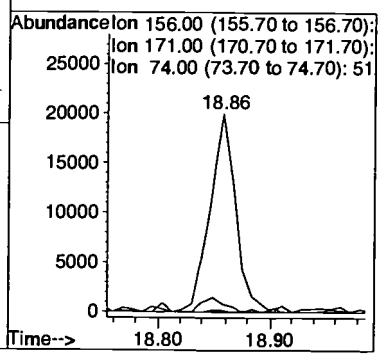
Bad fit
Jm



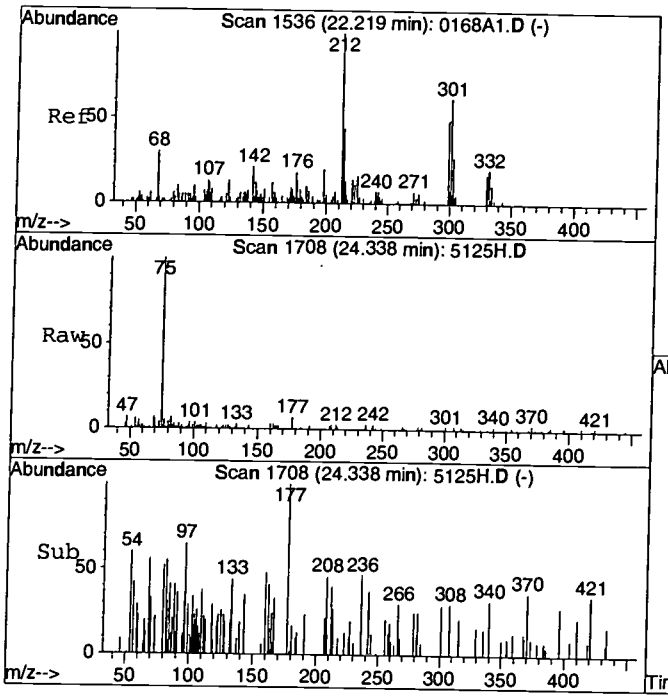
#18
Tebuthiuron
Concen: 0.46 ug/ml
RT: 18.86 min Scan# 1096
Delta R.T. -0.33 min
Lab File: 5125H.D
Acq: 17 Sep 01 12:51 am

Tgt Ion:156 Resp: 31851

Ion	Ratio	Lower	Upper
156	100		
171	0.9	19.0	28.6#
74	6.9	12.2	18.2#



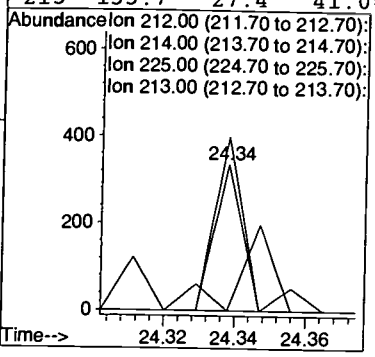
NT
Jm



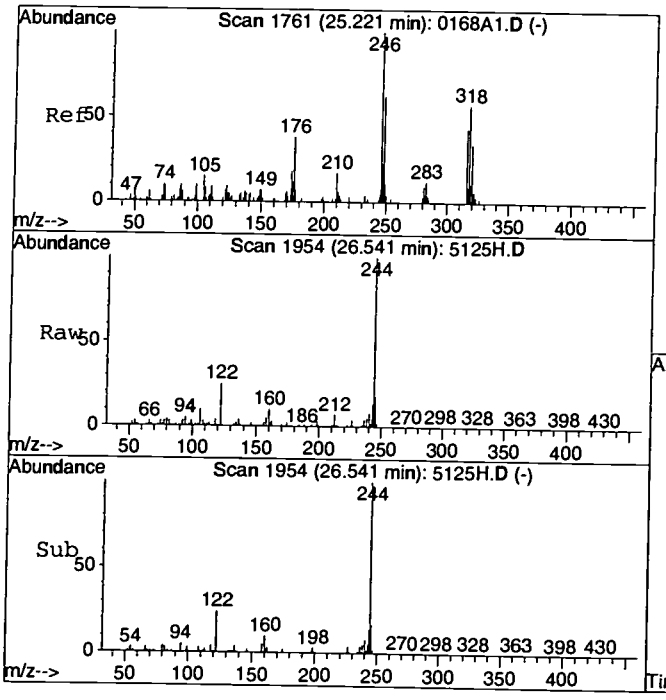
#66
Cyanazine
Concen: 0.11 ug/ml
RT: 24.34 min Scan# 1708
Delta R.T. 0.01 min
Lab File: 5125H.D
Acq: 17 Sep 01 12:51 am

Tgt Ion:212 Resp: 181

Ion	Ratio	Lower	Upper
212	100		
214	58.6	44.8	67.2
225	18.2	28.0	42.0#
213	133.7	27.4	41.0#



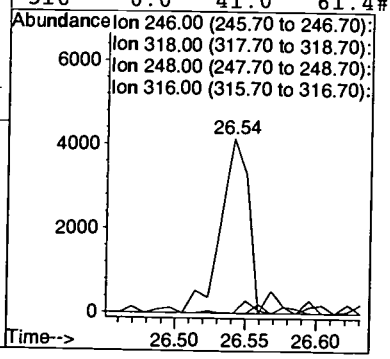
Art
Jun



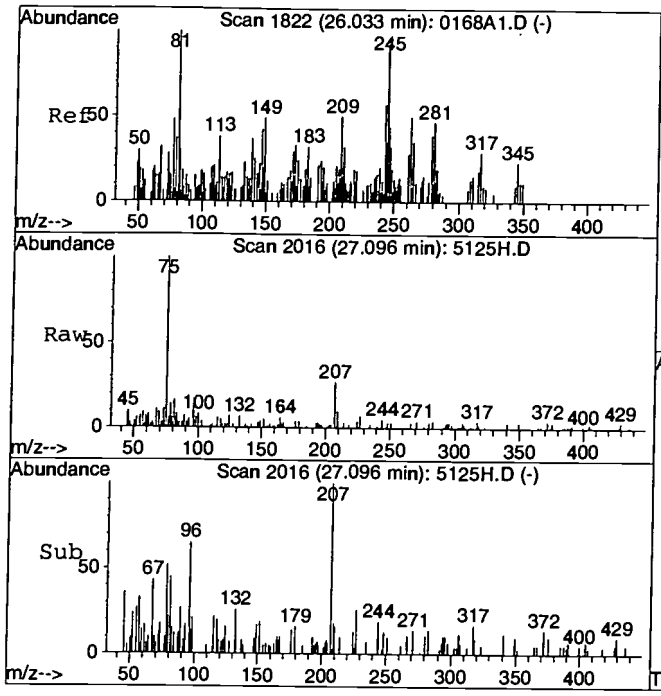
#83
p,p'-DDE
Concen: 0.26 ug/ml
RT: 26.54 min Scan# 1954
Delta R.T. 0.10 min
Lab File: 5125H.D
Acq: 17 Sep 01 12:51 am

Tgt Ion:246 Resp: 6039

Ion	Ratio	Lower	Upper
246	100		
318	0.5	51.8	77.6#
248	3.4	49.3	73.9#
316	0.0	41.0	61.4#



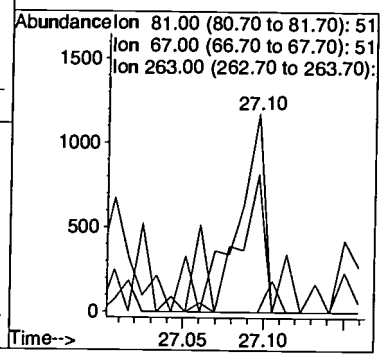
Bad Art
Jun



#89
Endrin
Concen: 0.15 ug/ml
RT: 27.10 min Scan# 2016
Delta R.T. 0.01 min
Lab File: 5125H.D
Acq: 17 Sep 01 12:51 am

Tgt Ion: 81 Resp: 1717

Ion	Ratio	Lower	Upper
81	100		
67	49.3	24.0	36.0#
263	5.8	0.0	0.0#



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Jm

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Heritage Environmental Services
QC Report

Q1280154 10

QC Type SPI02
Date Entered 14Sep2001
Analysis Date/Time 17Sep2001 04:17:00

Duplicate Sample ID A565830
Duplicate QCSampleID
Method 304 Matrix 1

Data File 5129H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE	0	2.11	2.29		108.5	
976	DICHLORVOS	0	2.11	1.78		84.4	
399	HEXACHLOROCYCLOPENTADIENE	0	2.11	.99		46.9	
405	HEXACHLOROCYCLOPENTADIENE.	0	2.11	.99		46.9	
346	EPTC (ERADICANE)	0	2.11	2.18		103.3	
1007	MEVINPHOS	0	2.11	1.73		82	
201	BUTYLATE	0	2.11	2.24		106.2	
1022	BUTYLATE (SUTAN PLUS)	0	2.11	2.24		106.2	
766	VERNOLATE	0	2.11	2.25		106.6	
2258	ETRIDIAZOLE	0	2.11	3.13		148.3	
310	DIMETHYLPHTHALATE	0	2.11	3		142.2	
571	PEBULATE (TILLAM)	0	2.11	2.36		111.8	
50	2,6-DINITROTOLUENE	0	2.11	1.33		63	
98	ACENAPHTHYLENE	0	2.11	1.31		62.1	
2257	CHLORNEB	0	2.11	3.07		145.5	
53	(1) 2-CHLOROBIPHENYL	0	2.11	2.8		132.7	
573	PENTACHLOROBENZENE	0	2.11	1.97		93.4	
821	TEBUTHIURON	0	2.11	0		0	
48	2,4-DINITROTOLUENE	0	2.11	1.06		50.2	
482	MOLINATE	0	2.11	2.41		114.2	
306	DIETHYLPHTHALATE	0	2.11	2.74		129.9	
366	FLUORENE	0	2.11	3.13		148.3	
621	PROPACHLOR	0	2.11	2.66		126.1	
1000	ETHOPROP	0	2.11	2.34		110.9	
996	CYCLOATE	0	2.11	2.93		138.9	
978	CHLOROPROPHAM	0	2.11	2.59		122.7	
753	TRIFLURALIN	0	2.11	1.56		73.9	
117	ALPHA-BHC	0	2.11	3.19		151.2	
952	(5) 2,3-DICHLOROBIPHENYL	0	2.11	2.83		134.1	
397	HEXACHLOROBENZENE	0	2.11	1.22		57.8	
994	ATRATON	0	2.11	0		0	
619	PROMETON (PRAMITOL)	0	2.11	.305		14.5	
667	SIMAZINE (PRINCEP)	0	2.11	1.66		78.7	
1819	SIMAZINE	0	2.11	1.66		78.7	
143	ATRAZINE	0	4.21	4.34		103.1	
168	BETA-BHC	0	2.11	2.5		118.5	
622	PROPAZINE (MILOGARD)	0	2.11	2.31		109.5	
577	PENTACHLOROPHENOL	0	8.42	7.44		88.4	
380	GAMMA-BHC (LINDANE)	0	2.11	2.62		124.2	
700	TERBUFOS (COUNTER)	0	2.11	1.54		73	
1025	PRONAMIDE	0	2.11	2.15		101.9	
911	DIAZINON	0	2.11	1.91		90.5	
597	PHENANTHRENE	0	2.11	2.4		113.7	
1030	CHLOROTHALONIL (BRAVO)	0	2.11	2.39		113.3	
328	DISULFOTON	0	2.11	.758		35.9	
128	ANTHRACENE	0	2.11	.432		20.5	
1006	METHYLPARAOXON	0	2.11	.842		39.9	
1013	TERBACIL	0	2.11	1.62		76.8	
290	DELTA-BHC	0	2.11	2.44		115.6	
959	2,4,5-TRICHLOROBIPHENYL	0	2.11	1.65		78.2	
3473	ACETOCHLOR	0	2.11	2.74		129.9	
481	METRIBUZIN (LEXONE)	0	2.11	1.42		67.3	
2111	METRIBUZIN	0	2.11	1.42		67.3	

✓ KS 9-18-1

QC Report

QC Type SPI02
Date Entered 14Sep2001
Analysis Date/Time 17Sep2001 04:17:00

Duplicate Sample ID A565830 Data File 5129H.D
Duplicate QCSampleID Analyst 2447 J. MINNIEAR, II
Method 304 Matrix 1 Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
110	ALACHLOR	0	4.21	4.44		105.5	
1011	SIMETRYN	0	2.11	.232		11	
993	AMETRYN	0	2.11	.853		40.4	
391	HEPTACHLOR	0	2.11	1.39		65.9	
620	PROMETRYN	0	2.11	1.46		69.2	
1024	PROMETRYN (CAPAROL)	0	2.11	1.46		69.2	
1014	TERBUTRYN	0	2.11	.99		46.9	
329	DI-N-BUTYLPHTHALATE	0	2.11	2.29		108.5	
1021	BROMACIL	0	2.11	1.64		77.7	
958	2,2',4,4'-TETRACHLOROBIPHENYL	0	2.11	1.52		72	
111	ALDRIN	0	2.11	1.02		48.3	
466	METOLACHLOR	0	2.11	2.26		107.1	
480	METOLACHLOR (DUAL)	0	2.11	2.26		107.1	
238	CHLOROPYRIFOS (DURSBAN)	0	2.11	2.23		105.7	
333	DURSBAN (INACTIVE USE #238)	0	2.11	2.23		105.7	
912	DCPA (DACTHAL)	0	2.11	2.29		108.5	
268	CYANAZINE (BLADEX)	0	2.11	4.4		208.5	
1015	TRIADIMEFON	0	2.11	1.59		75.4	
997	DIPHENAMID	0	2.11	2.61		123.7	
1008	MGK 264	0	1.05	.874		83.2	
3575	MGK 264-B	0	1.05	.874		83.2	
572	PENDIMETHALIN	0	2.11	1.31		62.1	
1008	MGK 264	0	1.05	1.12		106.7	
3575	MGK 264-B	0	1.05	1.12		106.7	
394	HEPTACHLOR EPOXIDE	0	2.11	2.07		98.1	
957	2,2',3',4,6-PENTACHLOROBIPHENYL	0	2.11	1.71		81	
381	GAMMA-CHLORDANE	0	2.11	1.82		86.3	
1012	STIROFOS	0	2.11	1.9		90	
995	BUTACHLOR	0	2.11	2.45		116.1	
118	ALPHA-CHLORDANE	0	2.11	1.9		90	
119	ALPHA-ENDOSULFAN	0	2.11	2.11		100	
335	ENDOSULFAN I	0	2.11	2.11		100	
749	TRANS-NONACHLOR	0	2.11	1.81		85.8	
1001	FENAMIPHOS	0	2.11	.895		42.4	
1009	NAPROPAMIDE	0	2.11	1.87		88.6	
1016	TRICYCLAZOLE	0	2.11	.137		6.5	
78	4,4'-DDE	0	2.11	2.14		101.4	
799	P,P'-DDE	0	2.11	2.14		101.4	
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0	2.11	1.81		85.8	
624	PYRENE	0	2.11	1.52		72	
303	DIELDRIN	0	2.11	1.38		65.4	
1023	CARBOXIN	0	2.11	.147		7	
338	ENDRIN	0	2.11	.99		46.9	
232	CHLOROBENZILATE	0	2.11	0		0	
169	BETA-ENDOSULFAN	0	2.11	2.44		115.6	
336	ENDOSULFAN II	0	2.11	2.44		115.6	
77	4,4'-DDD	0	2.11	1.81		85.8	
800	P,P'-DDD	0	2.11	1.81		85.8	
339	ENDRIN ALDEHYDE	0	2.11	1.51		71.6	
1010	NORFLURAZON	0	2.11	1.18		55.9	
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTI	0	2.11	1.54		73	
337	ENDOSULFAN SULFATE	0	2.11	.263		12.5	
79	4,4'-DDT	0	2.11	1.6		75.8	
798	P,P'-DDT	0	2.11	1.6		75.8	
1004	HEXAZINONE	0	2.11	.642		30.4	

QC Report

QC Type SPI02
Date Entered 14Sep2001
Analysis Date/Time 17Sep2001 04:17:00

Duplicate Sample ID A565830
Duplicate QCSampleID
Method 304 Matrix 1

Data File 5129H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
953	DI(2-ETHYLHEXYL)ADIPATE	0	2.11	2.3		109	
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0	2.11	1.93		91.5	
155	BENZO(A)ANTHRACENE	0	2.11	1.62		76.8	
163	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACEI	0	2.11	1.62		76.8	
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	0	2.11	1.61		76.3	
474	METHOXYCHLOR	0	2.11	1.52		72	
245	CHRYSENE	0	2.11	1.96		92.9	
185	BIS(2-ETHYLHEXYL)PHTHALATE	0	2.11	1.28		60.7	
1002	FENARIMOL	0	2.11	0		0	
2259	CIS-PERMETHRIN	0	1.81	1.22		67.4	
2260	TRANS-PERMETHRIN	0	.295	.19		64.4	
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI	0	2.11	1.51		71.6	
159	BENZO(K)FLUORANTHENE	0	2.11	1.73		82	
156	BENZO(A)PYRENE	0	2.11	1.03		48.8	
1003	FLURIDONE	0	2.11	0		0	
413	INDENO(1,2,3-CD)PYRENE	0	2.11	1.45		68.7	
294	DIBENZ(A,H)ANTHRACENE	0	2.11	1.42		67.3	
158	BENZO(G,H,I)PERYLENE	0	2.11	1.78		84.4	

Comments

NA

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H091601\5129H.D
Acq On : 17 Sep 01 4:17 am
Sample : A565830 MS
Misc : 950ML-1ML
MS Integration Params: rteint.p
Quant Time: Sep 17 23:09 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

(*): ISTD areas are low as in sample analysis.

UCMR4 Short-List Only!

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.86	164	*298193	5.00 ug/ml	-0.01
30) PHENANTHRENE-D10	22.27	188	*396134	5.00 ug/ml	-0.02
85) CHRYSENE-D12	29.33	240	*191554	5.00 ug/ml	-0.02
118) p-Terphenyl-d14	26.55	244	247964	5.00 ug/ml	-0.01
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.20	134	85529	4.63 ug/ml	-0.01
100) Triphenylphosphate	28.52	326	37379	3.76 ug/ml	-0.01
114) Perylene-d12	33.02	264	110719	5.58 ug/ml	-0.01
Target Compounds					Qvalue
2) Isophorone	14.33	82	195619	2.17 ug/ml	97
4) Dichlorvos	15.95	109	93135	1.69 ug/ml#	65
5) Hexachlorocyclopentadiene	17.05	237	9169	0.94 ug/ml#	37
6) EPTC	17.33	128	72293	2.07 ug/ml#	16
7) Mevinphos	18.10	127	69788	1.64 ug/ml#	54
8) Butylate	18.13	146	47299	2.13 ug/ml#	1
9) Vernolate	18.34	128	85084	2.14 ug/ml#	40
10) Terrazole	18.39	211	21528	2.97 ug/ml	99
11) Dimethylphthalate	18.37	163	218506	2.85 ug/ml	100
12) Pebulate	18.50	128	87759	2.24 ug/ml#	9
13) 2,6-Dinitrotoluene	18.47	165	16264	1.26 ug/ml#	68
14) Acenaphthylene	18.55	152	130887	1.24 ug/ml	100
15) Chloroneb	19.00	191	69123	2.92 ug/ml	92
16) 2-Chlorobiphenyl	19.03	188	138138	2.66 ug/ml	100
17) Pentachlorobenzene	19.21	248	21751	1.87 ug/ml#	55
19) 2,4-Dinitrotoluene	19.30	165	9414	1.01 ug/ml#	31
20) Molinate	19.47	126	114181	2.29 ug/ml#	77
21) Diethylphthalate	19.90	149	201578	2.60 ug/ml	100
22) Fluorene	20.07	166	181562	2.97 ug/ml	94
23) Propachlor	20.14	120	105481	2.53 ug/ml#	3
24) Ethoprop	20.44	158	36824	2.22 ug/ml#	20
25) Cycloate	20.49	154	93410	2.78 ug/ml#	1
26) Chlorpropham	20.67	127	55888	2.46 ug/ml#	53
27) Trifluralin	20.69	306	13251	1.48 ug/ml	85
28) alpha-BHC	21.24	181	38859	3.03 ug/ml#	92
29) 2,3-Dichlorobiphenyl	21.28	222	76963	2.69 ug/ml#	51
31) Hexachlorobenzene	21.32	284	27807	1.16 ug/ml#	92
33) Prometon	21.59	210	4387	0.29 ug/ml#	42
34) Simazine	21.62	201	18768	1.58 ug/ml	91
35) Atrazine	21.70	200	73740	4.12 ug/ml	100
36) beta-BHC	21.75	183	30005	2.37 ug/ml	95
37) Propazine	21.77	214	39589	2.19 ug/ml#	85
38) Pentachlorophenol	22.28	266	34160	7.07 ug/ml#	78
39) g-BHC (Lindane)	21.96	181	33802	2.49 ug/ml#	83
40) Terbufos	22.02	231	29660	1.46 ug/ml#	1
41) Pronamide	22.07	173	61678	2.04 ug/ml#	91
42) Diazinon	22.11	137	47215	1.81 ug/ml#	89
43) Phenanthrene	22.33	178	215715	2.28 ug/ml	99
44) Chlorothalonil	22.28	266	33888	2.27 ug/ml#	90
45) Disulfoton	22.39	88	52596	0.72 ug/ml#	50
46) Anthracene	22.46	178	36502	0.41 ug/ml	95
47) Methyl paraoxon	22.39	109	10712	0.80 ug/ml#	43
48) Terbacil	22.39	161	27483	1.54 ug/ml#	85

(#) = qualifier out of range (m) = manual integration
5129H.D DRINKWI.M Mon Sep 17 23:10:03 2001

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H091601\5129H.D
Acq On : 17 Sep 01 4:17 am
Sample : A565830 MS
Misc : 950ML-1ML
MS Integration Params: rteint.p
Quant Time: Sep 17 23:09 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) delta-BHC	22.55	181	27986	2.32	ug/ml#	72
50) Trichlorobiphenyl	22.88	256	41762	1.57	ug/ml	100
51) Acetochlor	23.33	146	38554	2.60	ug/ml#	51
52) Metribuzin	23.19	198	17148	1.35	ug/ml	100
53) Alachlor	23.33	160	89983	4.22	ug/ml	90
54) Simetryn	23.42	213	3881	0.22	ug/ml#	82
55) Ametryn	23.48	227	12831	0.81	ug/ml#	44
56) Heptachlor	23.56	100	41772	1.32	ug/ml#	31
57) Prometryn	23.54	241	25706	1.39	ug/ml#	82
58) Terbutryn	23.83	226	15278	0.94	ug/ml#	86
59) Di-n-butyl phthalate	23.95	149	408057	2.17	ug/ml	97
60) Bromacil	23.88	205	15314	1.56	ug/ml#	43
61) Tetrachlorobiphenyl	24.10	292	25028	1.44	ug/ml	100
62) Aldrin	24.36	66	24881	0.97	ug/ml#	57
63) Metolachlor	24.16	162	127094	2.15	ug/ml	91
64) Chlorpyrifos	24.19	314	8424	2.12	ug/ml#	1
65) DCPA	24.30	301	33481	2.17	ug/ml#	87
66) Cyanazine	24.31	212	4581	4.18	ug/ml#	60
67) Triadimefon	24.44	57	40321	1.51	ug/ml#	38
68) Diphenamid	24.70	167	96509	2.48	ug/ml#	34
69) MGK 264-A	24.72	111	21068	0.83	ug/ml#	71
70) Pendimethalin	24.91	252	13849	1.24	ug/ml#	85
71) MGK 264-B	25.01	164	21903	1.06	ug/ml#	65
72) Heptachlor epoxide	25.20	81	32413	1.97	ug/ml#	63
73) Pentachlorobiphenyl	25.24	326	20427	1.62	ug/ml	100
74) g-Chlordane	25.72	375	15555	1.73	ug/ml	100
75) Stirofos	25.72	109	40774	1.80	ug/ml#	55
76) Butachlor	25.77	176	40927	2.33	ug/ml	100
77) a-Chlordane	26.00	373	16251	1.80	ug/ml	99
78) Endosulfan I	26.01	195	11113	2.00	ug/ml#	85
79) trans-Nonachlor	26.06	409	18511	1.72	ug/ml#	54
80) Fenamiphos	26.03	303	2115	0.85	ug/ml#	27
81) Napropamide	26.10	72	81920	1.78	ug/ml#	73
82) Tricyclazole	26.38	189	230	0.13	ug/ml#	34
83) p,p'-DDE	26.42	246	32542	2.03	ug/ml#	87
84) Hexachlorobiphenyl	26.56	360	19622	1.72	ug/ml#	39
86) Pyrene	25.99	202	144348	1.44	ug/ml#	77
87) Dieldrin	26.60	79	56488	1.31	ug/ml#	57
88) Carboxin	26.60	143	4487	0.14	ug/ml#	87
89) Endrin	27.07	81	9330	0.94	ug/ml#	1
91) Endosulfan II	27.30	195	9537	2.32	ug/ml#	57
92) p,p'-DDD	27.33	235	59193	1.72	ug/ml	93
93) Endrin aldehyde	27.59	67	18335	1.43	ug/ml#	48
94) Norflurazon	27.88	145	11090	1.12	ug/ml#	75
95) Butylbenzylphthalate	27.99	149	81264	1.46	ug/ml	94
96) Endosulfan sulfate	28.13	272	1202	0.25	ug/ml#	1
97) p,p'-DDT	28.15	235	34637	1.52	ug/ml#	84
98) Hexazinone	28.24	171	12974	0.61	ug/ml#	88
99) Di(2-ethylhexyl)adipate	28.32	129	129914	2.18	ug/ml#	78
101) Heptachlorobiphenyl	29.18	394	13548	1.83	ug/ml#	31
102) Benz(a)anthracene	29.40	228	84315	1.54	ug/ml	97
103) Octachlorobiphenyl	29.32	430	16571	1.53	ug/ml	89
104) Methoxychlor	29.32	227	47701	1.44	ug/ml#	59
105) Chrysene	29.40	228	84390	1.86	ug/ml#	100

(#) = qualifier out of range (m) = manual integration
5129H.D DRINKWI.M Mon Sep 17 23:10:05 2001

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H091601\5129H.D
Acq On : 17 Sep 01 4:17 am
Sample : A565830 MS
Misc : 950ML-1ML
MS Integration Params: rteint.p
Quant Time: Sep 17 23:09 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
106) bis(2-Ethylhexyl)phthalate	29.68	149	86734	1.22 ug/ml	98
108) cis-Permethrin	31.21	183	75002	1.16 ug/ml#	65
109) trans-Permethrin	31.34	183	10349	0.18 ug/ml#	83
110) Benzo(b)fluoranthene	32.11	252	49346	1.43 ug/ml#	73
111) Benzo(k)fluoranthene	32.16	252	51025	1.64 ug/ml#	84
112) Benzo(a)pyrene	32.88	252	28664	1.03 ~~1.04~~ ug/ml	100
115) Indeno(1,2,3-cd)pyrene	35.82	276	22927	1.38 ug/ml#	64
116) Dibenz(a,h)anthracene	35.96	278	17956	1.35 ug/ml#	25
117) Benzo(g,h,i)perylene	36.65	276	30120	1.69 ug/ml#	61

JCM 9-17-01

(#) = qualifier out of range (m) = manual integration
5129H.D DRINKWI.M Mon Sep 17 23:10:05 2001

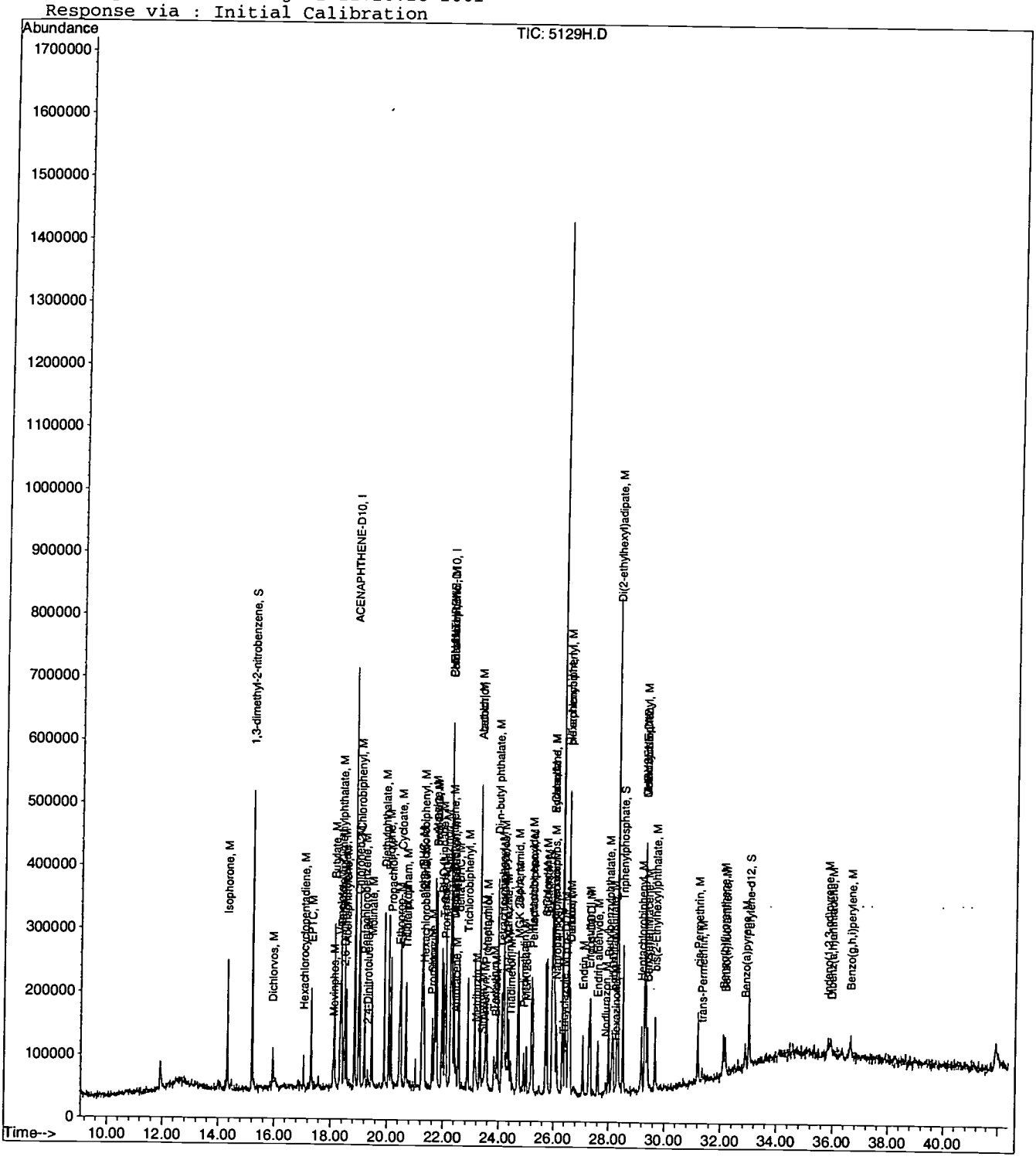
Quantitation Report

Data File : D:\HDATA~1\H091601\5129H.D
Acq On : 17 Sep 01 4:17 am
Sample : A565830 MS
Misc : 950ML-1ML
MS Integration Params: rteint.p
Quant Time: Sep 17 23:09 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



5129H.D DRINKWI.M Mon Sep 17 23:10:11 2001

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: 5216H.D DFTPP Injection Date: 10/08/01

Instrument ID: #8 DFTPP Injection Time: 01:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	26.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	42.7
70	Less than 2.0% of mass 69	0.5 (1.2)1
127	25.0 - 75.0% of mass 198	52.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	9.4
442	40.0 - 110.0% of mass 198	76.6
443	15.0 - 24.0% of mass 442	14.5 (18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

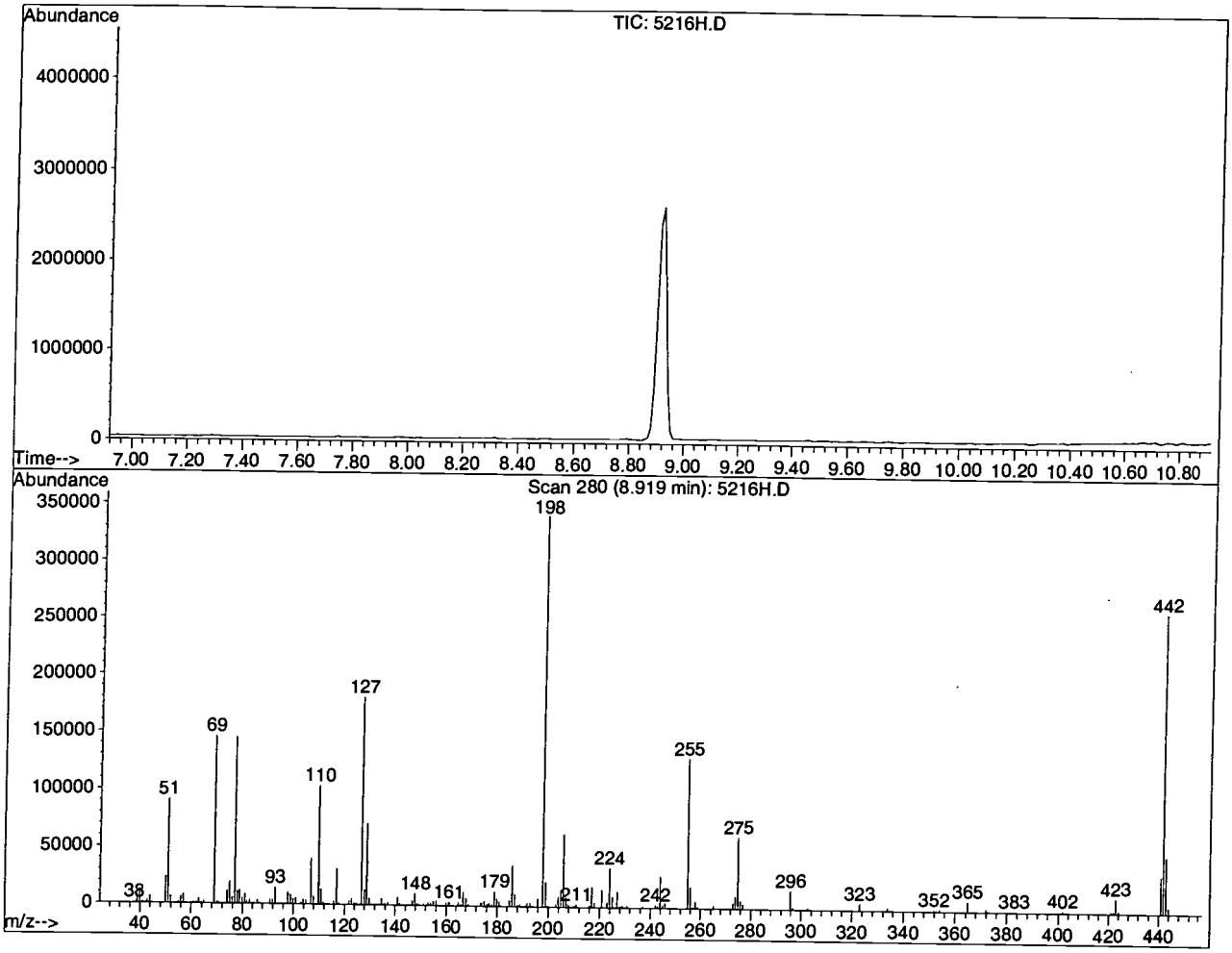
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD 2.0	SSTD 2.0	5217H.D	10/08/01	01:58
02	SSTD 0.1	SSTD 0.1	5218H.D	10/08/01	02:49
03	SSTD 0.5	SSTD 0.5	5219H.D	10/08/01	03:40
04	SSTD 1.0	SSTD 1.0	5220H.D	10/08/01	04:31
05	SSTD 5.0	SSTD 5.0	5221H.D	10/08/01	05:23
06	SSTD 10	SSTD 10	5222H.D	10/08/01	06:14
07	SSTD 0.02	SSTD 0.02	5223H.D	10/08/01	07:05
21283442 08	SBLK2300-755	SBLK2300-755	5224H.D	10/08/01	07:56
21283443 09	LCS #003	LCS #003	5225H.D	10/08/01	08:48
10	A567128	A567128	5226H.D	10/08/01	09:39
11	A567128	A567128	5227H.D	10/08/01	10:30
12	A568113	A568113	5228H.D	10/08/01	11:22
13	A568114	A568114	5229H.D	10/08/01	12:13
14	A568309	A568309	5230H.D	10/08/01	13:05

✓ LAS 10-10-1

DFTPP

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
MS Integration Params: rteint.p
Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00



Spectrum Information: Scan 280

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.6	90880	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	145920	PASS
70	69	0.00	2	1.2	1723	PASS
127	198	10	80	52.9	180736	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	341504	PASS
199	198	5	9	6.4	21688	PASS
275	198	10	60	18.3	62424	PASS
365	198	1	100	2.6	8858	PASS
441	443	0.01	100	64.9	32136	PASS
442	198	50	150	76.6	261504	PASS
443	442	15	24	18.9	49544	PASS

✓
MS
10/10/1

5216H.D DFTPPI.M Wed Oct 10 00:30:04 2001

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.80	889	52.80	1429	66.70	1303	79.90	4850
38.90	7295	54.00	648	66.90	1332	80.90	8883
39.90	12828	54.90	1825	68.90	145920	81.80	2677
41.00	1454	55.90	5763	70.10	1723	82.90	3501
41.70	519	56.90	8223	70.80	956	83.90	923
42.90	2646	60.00	567	73.90	11422	84.80	1239
43.90	6296	60.80	1116	74.90	19656	85.90	3349
44.70	803	61.90	1709	75.90	5523	86.80	1109
49.90	23784	62.90	4513	76.90	145088	87.80	581
50.90	90880	63.80	945	77.90	11250	90.80	3650
51.90	6642	64.90	2376	78.80	11937	91.80	3702

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.90	14307	103.80	4252	118.80	857	133.00	939
93.80	1312	104.90	3684	121.90	2959	134.00	1044
94.90	1140	106.90	40360	122.90	5167	134.80	5837
95.90	991	107.90	7175	123.90	1614	135.90	1802
96.80	1200	109.90	103512	124.80	1611	136.90	2277
97.90	10591	110.80	13306	126.90	180736	138.60	517
98.90	8296	111.80	1918	127.90	13184	139.90	1204
99.90	4410	112.80	818	128.80	71168	140.90	7120
100.90	5629	115.80	3136	129.80	5757	141.80	1600
101.90	642	116.90	31560	131.00	1349	142.90	1385
102.90	1568	117.70	1524	131.90	1017	144.10	807

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.10	738	156.00	4103	168.80	1110	179.80	6538
145.90	858	156.90	1269	170.00	729	180.90	3886
146.80	3999	157.80	1156	171.10	537	181.50	633
147.80	10325	158.80	1456	171.80	1236	182.90	1087
148.80	1601	159.90	2373	172.70	1276	183.90	584
149.70	622	160.90	3128	173.80	3088	184.80	5356
151.20	1440	162.00	826	175.00	4750	185.90	36136
152.10	755	164.90	3015	176.00	1946	186.90	10677
152.90	2443	165.90	1182	176.80	2678	188.00	1607
153.90	2175	166.90	12202	177.90	1434	188.90	2283
154.90	3396	167.90	6715	178.90	12808	191.00	1091

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.80	3278	205.90	64120	222.90	4719	239.80	546
192.90	3122	206.90	9378	223.90	34496	241.00	743
193.70	572	207.80	2528	225.00	9630	241.90	2505
195.90	7439	209.00	747	226.90	14258	242.80	1978
197.80	341504	209.90	1342	228.00	1469	243.90	27888
198.90	21688	210.80	2660	228.90	2000	245.00	2783
199.90	1061	216.00	2027	230.20	546	246.00	4350
201.50	949	216.90	17784	230.90	1845	246.80	710
202.90	2491	217.90	3814	234.00	1094	247.10	726
203.90	8868	219.70	592	235.00	1056	248.90	546
204.90	15854	220.90	15562	236.80	1107	249.90	642

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.00	634	275.85	7278	324.05	513	372.95	696
254.90	130008	276.85	4210	326.85	1049	382.95	999
255.90	18440	284.95	1058	333.85	2964	389.65	563
256.90	1596	288.75	665	334.95	664	401.85	1758
257.90	6141	292.85	1303	345.85	693	402.75	1396
258.90	1354	295.85	16576	351.85	1446	403.15	1227
265.00	2667	296.85	2296	352.65	1142	403.85	684
265.90	646	302.75	1852	353.95	1894	420.95	1800
272.85	5198	314.85	1239	364.85	8858	421.85	1609

273.85	11131	315.85	720	366.05	1066	422.85	12707
274.85	62424	322.95	6130	371.95	2987	423.95	2126

Scan 280 (8.919 min): 5216H.D
DFTPP

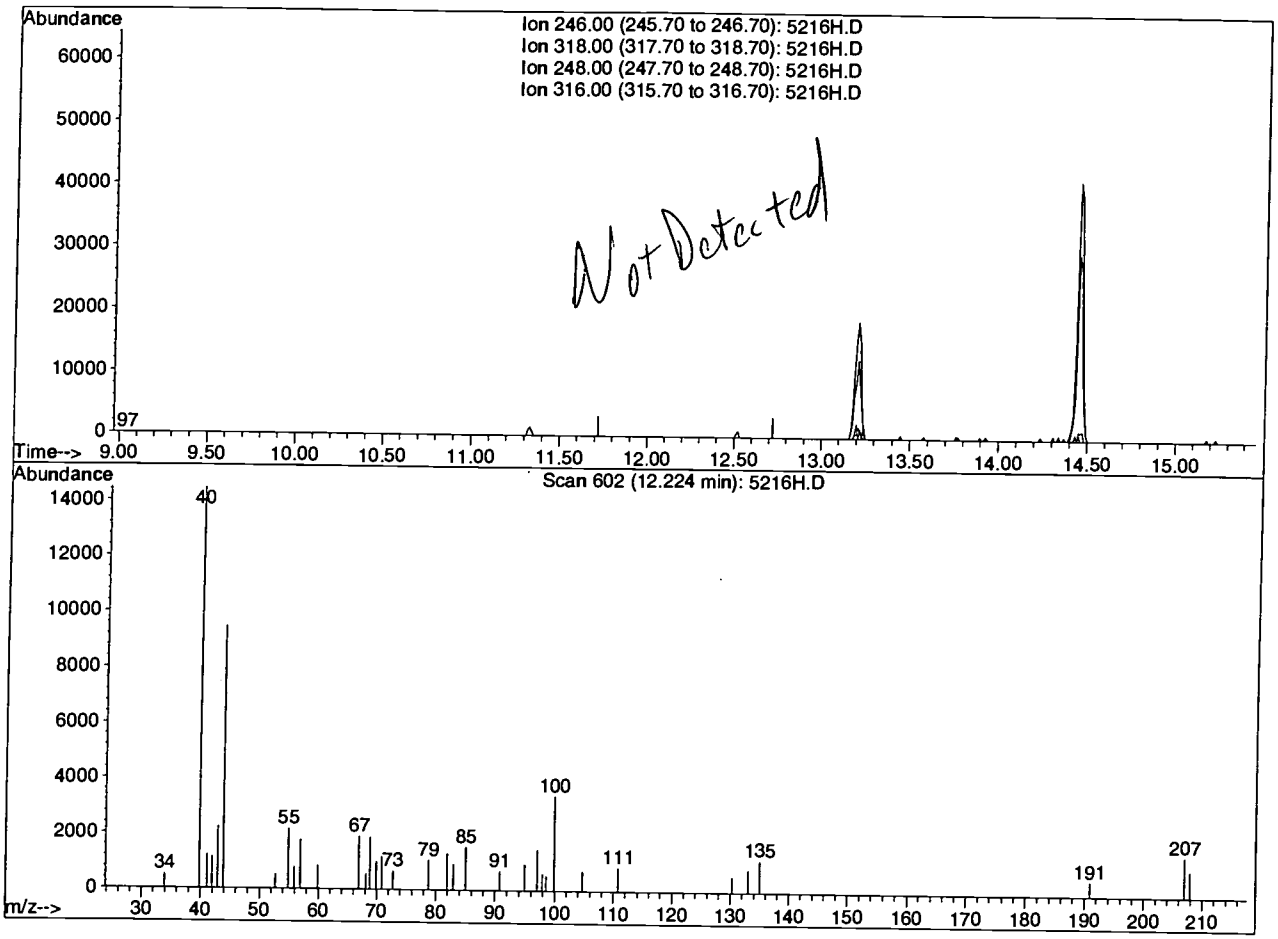
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.95	849						
440.95	32136						
441.95	261504						
442.95	49544						
443.95	5392						

Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration



TIC: 5216H.D

(2) p,p'-DDE (M)

12.22min 0.00ug/ml d

response 0

Ion	Exp%	Act%
246.00	100	0.00
318.00	64.70	0.00#
248.00	61.60	0.00#
316.00	51.20	0.00#

5216H.D DFTPPI.M Wed Oct 10 00:30:58 2001

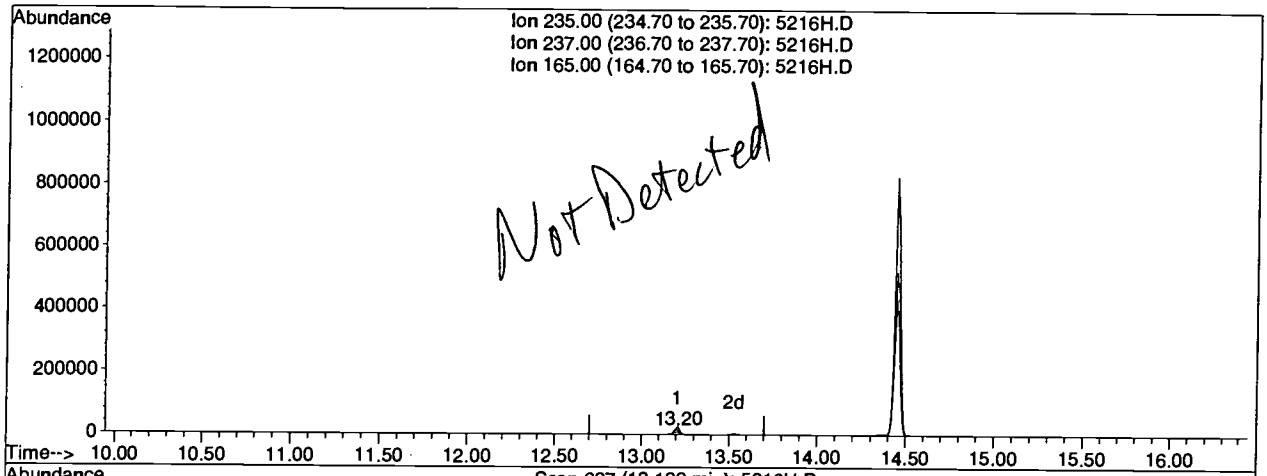
AS 10-10-1

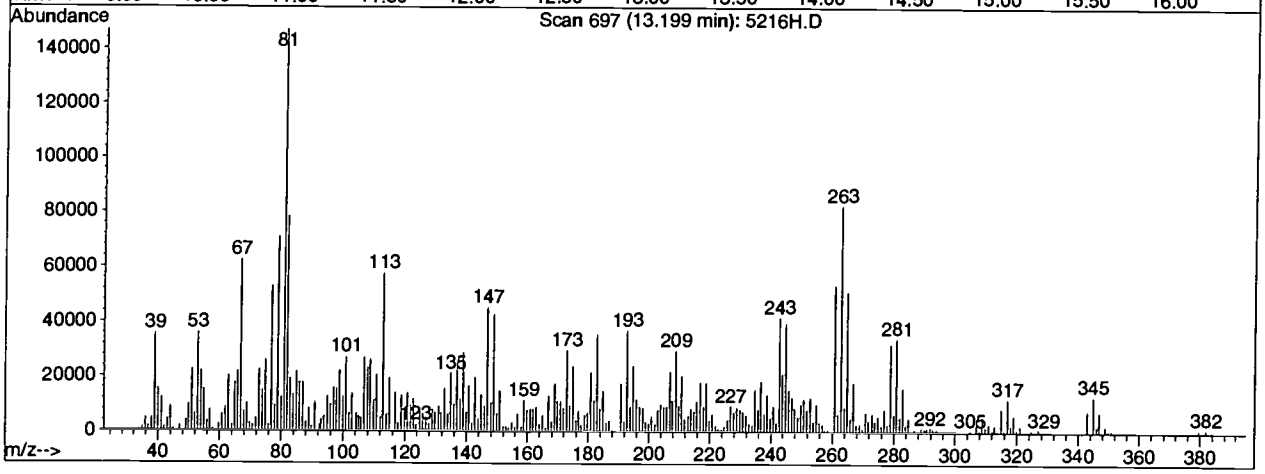
Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5216H.D

(4) p,p'-DDD (M)

13.20min 0.14ug/ml

response 37094

Ion	Exp%	Act%
235.00	100	100
237.00	66.60	148.09#
165.00	48.60	57.88
0.00	0.00	0.00

5216H.D DFTPPI.M Wed Oct 10 00:31:31 2001

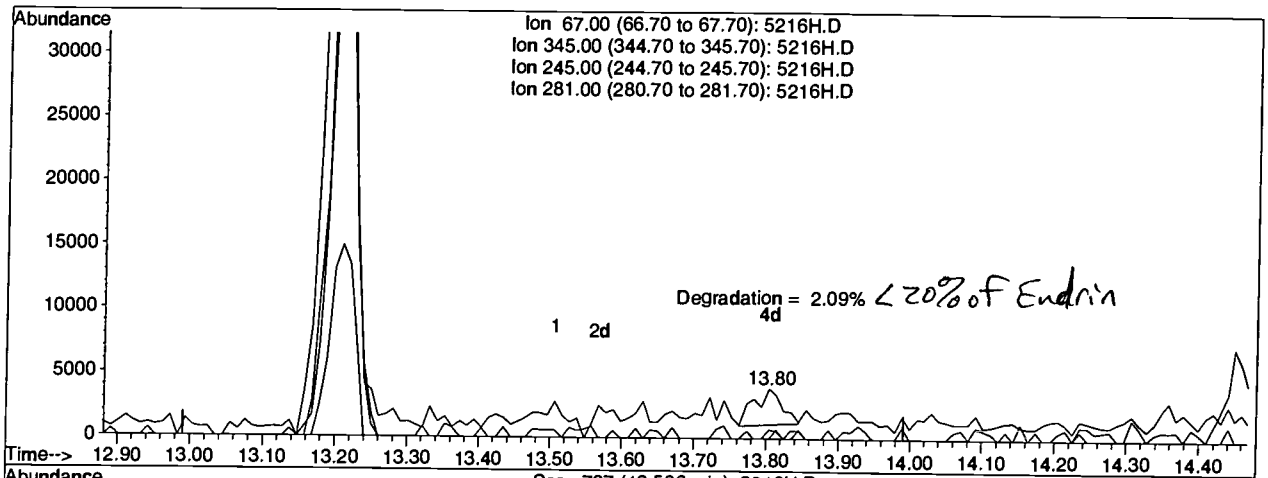
WS 10/10/1

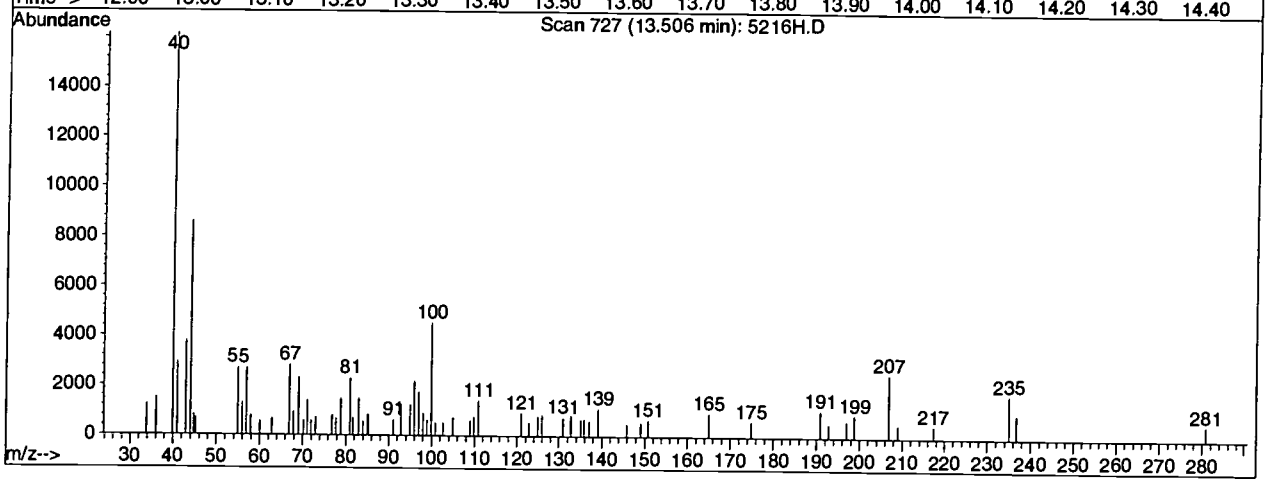
Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5216H.D

(5) Endrin aldehyde (M)

13.51min 0.25ug/ml

response 9644

Ion	Exp%	Act%
67.00	100	100
345.00	63.90	0.00#
245.00	49.00	0.00#
281.00	46.90	0.00#

5216H.D DFTPPI.M Wed Oct 10 00:32:21 2001

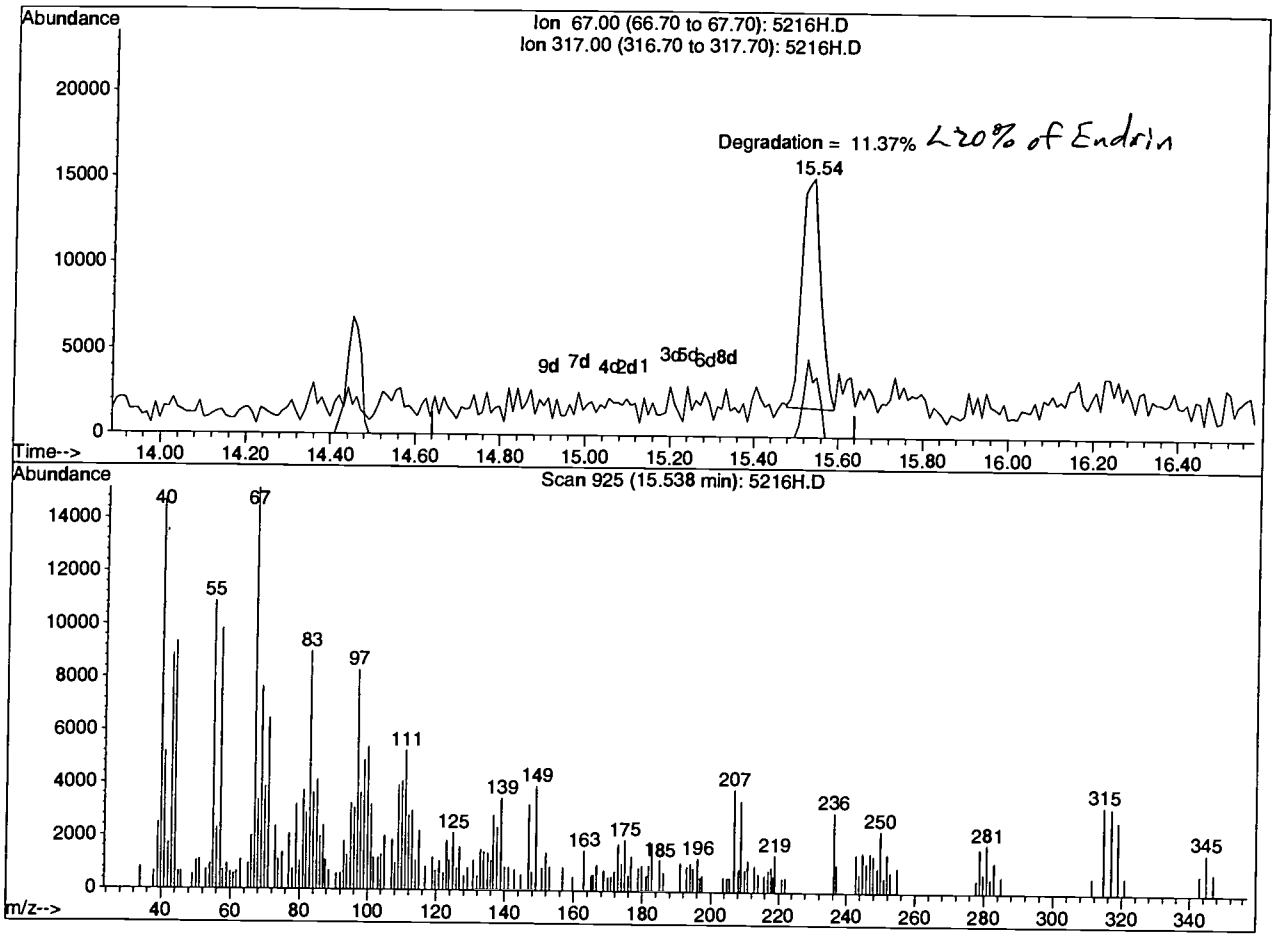
✓ HS 10-10-1

Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Single Level Calibration



TIC: 5216H.D

(7) Endrin Ketone

15.54min 0.00ug/ml m

response 41716

Ion	Exp%	Act%
67.00	100	100
317.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

✓ MB 10-10-1

5216H.D DFTPPI.M Wed Oct 10 00:33:05 2001

Response Factor Report GC/MS Ins

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

Calibration Files
2.0 =5217H.D 0.1 =5218H.D 0.5 =5219H.D
1.0 =5220H.D 5.0 =5221H.D 10.0 =5222H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
1)I	ACENAPHTHENE-D10	----------ISTD----------							
2)M	Isophorone	1.4182	1.4735	1.2979	1.5043	1.4626	1.3847	1.4235	5.2#
3)S	1,3-dimethyl-2-nitr	0.3092	0.3281	0.3117	0.4082	0.1658	0.2801	0.3005	26.2#
4)M	Dichlorvos	1.0081	0.7586	0.8248	0.9318	0.9901	1.0232	0.9228	11.7#
5)M	Hexachlorocyclopent	0.1699	0.1097	0.1110	0.1456	0.1679	0.1723	0.1461	20.0#
6)M	EPTC	0.5741	0.6171	0.5344	0.6385	0.5740	0.5602	0.5831	6.5#
7)M	Mevinphos	0.9258	0.5990	0.5914	0.7257	0.8824	0.9309	0.7759	20.4#
8)M	Butylate	0.3566	0.4057	0.3413	0.3467	0.3459	0.3403	0.3561	7.0#
9)M	Vernolate	0.6592	0.6654	0.6284	0.7158	0.6682	0.6381	0.6625	4.6#
10)m	Terrazole	0.1447	0.0800	0.0872	0.1073	0.1308	0.1408	0.1151	24.1#
11)M	Dimethylphthalate	1.3093	1.3009	1.2323	1.3495	1.2720	1.2472	1.2852	3.4#
12)M	Pebulate	0.6734	0.6949	0.6403	0.7288	0.6730	0.6383	0.6748	5.1#
13)M	2,6-Dinitrotoluene	0.2376	0.1924	0.1542	0.2067	0.2383	0.2526	0.2136	17.2#
14)M	Acenaphthylene	1.8333	1.9139	1.7640	1.9844	1.8319	1.7597	1.8479	4.7#
15)M	Chloroneb	0.4051	0.4190	0.3884	0.4092	0.4092	0.3866	0.4029	3.2#
16)M	2-Chlorobiphenyl	0.8835	0.9572	0.8397	0.9312	0.8723	0.8022	0.8810	6.5#
17)M	Pentachlorobenzene	0.2125	0.2233	0.1973	0.2166	0.2114	0.1934	0.2091	5.5#
18)M	Tebuthiuron	0.1872	0.1105	0.0683	0.1014	0.1865	0.2399	0.1490	43.9#
19)M	2,4-Dinitrotoluene	0.2065	0.1509	0.1111	0.1481	0.2107	0.2383	0.1776	27.1#
20)M	Molinate	0.8349	0.7587	0.7839	0.8784	0.8256	0.8300	0.8186	5.1#
21)M	Diethylphthalate	1.3663	1.2457	1.1627	1.4075	1.3639	1.3040	1.3084	7.0#
22)M	Fluorene	1.1183	0.9662	0.9819	1.0968	1.0890	1.0468	1.0498	6.0#
23)M	Propachlor	0.7347	0.6010	0.6069	0.7326	0.7357	0.7496	0.6934	10.0#
24)M	Ethoprop	0.3300	0.2505	0.2414	0.2999	0.3159	0.3200	0.2929	12.9#
25)M	Cycloate	0.5874	0.5917	0.4819	0.6164	0.5656	0.5519	0.5658	8.3#
26)M	Chlorpropham	0.4086	0.2940	0.2942	0.3729	0.4039	0.4243	0.3663	15.9#
27)M	Trifluralin	0.1727	0.1075	0.1006	0.1430	0.1729	0.1856	0.1471	24.6#
28)M	alpha-BHC	0.2125	0.2248	0.1732	0.2103	0.2117	0.1955	0.2047	8.8#
29)M	2,3-Dichlorobipheny	0.4903	0.5470	0.4454	0.5038	0.4875	0.4703	0.4907	7.0#
30)I	PHENANTHRENE-D10	----------ISTD----------							
31)M	Hexachlorobenzene	0.2719	0.3228	0.2429	0.3203	0.2793	0.2554	0.2821	11.7#
32)M	Atraton	0.2156	0.1078	0.1226	0.1761	0.2021	0.2112	0.1726	27.1#
33)M	Prometon	0.2294	0.1208	0.1687	0.2053	0.2203	0.2269	0.1952	21.9#
34)M	Simazine	0.1641	0.1207	0.1191	0.1508	0.1561	0.1546	0.1442	13.4#
35)M	Atrazine	0.2591	0.1794	0.2049	0.2503	0.2488	0.2469	0.2316	13.8#
36)M	beta-BHC	0.1494	0.1814	0.1289	0.1507	0.1428	0.1334	0.1477	12.6#
37)M	Propazine	0.2376	0.2224	0.2134	0.2411	0.2332	0.2341	0.2303	4.5#
38)M	Pentachlorophenol	0.0650		0.0257	0.0415	0.0647	0.0820	0.0558	39.7#
39)M	g-BHC (Lindane)	0.1896	0.2063	0.1512	0.2029	0.1798	0.1744	0.1840	11.1#
40)M	Terbufos	0.2867	0.2058	0.2219	0.2804	0.2565	0.2586	0.2517	12.7#
41)M	Pronamide	0.4334	0.3129	0.2914	0.3785	0.4364	0.4432	0.3826	17.5#
42)M	Diazinon	0.3159	0.2896	0.3148	0.3646	0.3014	0.2858	0.3120	9.2#
43)M	Phenanthrene	1.2346	1.2513	1.1808	1.3110	1.2186	1.1894	1.2310	3.8#
44)M	Chlorothalonil	0.1893	0.1066	0.1349	0.1795	0.1912	0.1964	0.1663	22.1#
45)M	Disulfoton	0.9264	0.8048	0.7640	0.9970	0.9213	0.8644	0.8797	9.8#

(#) = Out of Range (Advisory for non CCC, SPCC)

Response Factor Report GC/MS Ins

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

Calibration Files
2.0 =5217H.D 0.1 =5218H.D 0.5 =5219H.D
1.0 =5220H.D 5.0 =5221H.D 10.0 =5222H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
46)M	Anthracene	1.1197	1.2461	1.0078	1.1868	1.1204	1.1044	1.1309	7.1#

47)m	Methyl paraoxon	0.1922	0.1640	0.1200	0.1587	0.2209	0.2635	0.1866	27.2#
48)M	Terbacil	0.2715	0.2601	0.1741	0.2402	0.2881	0.3152	0.2582	18.8#
49)M	delta-BHC	0.1307	0.1286	0.1292	0.1515	0.1337	0.1316	0.1342	6.5#
50)M	Trichlorobiphenyl	0.3353	0.3867	0.2629	0.3339	0.3190	0.3098	0.3246	12.4#
51)M	Acetochlor	0.1887	0.2312	0.1660	0.2001	0.1819	0.1747	0.1904	12.1#
52)M	Metribuzin	0.1940	0.0941	0.0962	0.1440	0.1915	0.2176	0.1562	33.9#
53)M	Alachlor	0.2804	0.2679	0.2400	0.2704	0.2651	0.2591	0.2638	5.2#
54)M	Simetryn	0.2667	0.1445	0.1634	0.2347	0.2719	0.2884	0.2283	26.5#
55)M	Ametryn	0.2055	0.1326	0.1758	0.2058	0.2205	0.2363	0.1961	18.9#
56)M	Heptachlor	0.3608	0.4145	0.3373	0.3834	0.3630	0.3268	0.3643	8.7#
57)M	Prometryn	0.2704	0.1433	0.2037	0.2398	0.2508	0.2446	0.2254	20.3#
58)M	Terbutryn	0.2225	0.1553	0.1825	0.2005	0.2292	0.2411	0.2052	15.7#
59)M	Di-n-butyl phthalat	2.3596	2.4765	2.0049	2.3875	2.3827	2.2714	2.3138	7.1#
60)M	Bromacil	0.1798	0.1626	0.1218	0.1647	0.1914	0.2202	0.1734	19.0#
61)M	Tetrachlorobiphenyl	0.2135	0.2110	0.1572	0.2395	0.2042	0.2003	0.2043	13.1#
62)M	Aldrin	0.2461	0.3422	0.2890	0.3212	0.2654	0.2375	0.2836	14.7#
63)M	Metolachlor	0.7964	0.6941	0.6618	0.8180	0.7787	0.7750	0.7540	8.2#
64)M	Chlorpyrifos	0.0527	0.0165	0.0533	0.0471	0.0519	0.0542	0.0459	31.9#
65)M	DCPA	0.2120	0.2006	0.2021	0.2013	0.1996	0.1979	0.2022	2.5#
66)M	Cyanazine	0.0156	0.0109	0.0267	0.0151	0.0150	0.0146	0.0163	32.9#
67)M	Triadimefon	0.3507	0.2598	0.2748	0.2889	0.4026	0.4647	0.3402	23.8#
68)M	Diphenamid	0.5220	0.3446	0.3947	0.4979	0.5433	0.5707	0.4789	18.7#
69)M	MGK 264-A	0.3027	0.2961	0.2159	0.3053	0.2813	0.2842	0.2809	11.8#
70)M	Pendimethalin	0.1663	0.0638	0.0784	0.1087	0.1796	0.2065	0.1339	43.6#
71)M	MGK 264-B	0.2607	0.3379	0.2470	0.2859	0.2611	0.2602	0.2755	12.0#
72)M	Heptachlor epoxide	0.1805	0.3033	0.1576	0.1947	0.1632	0.1551	0.1924	29.3#
73)M	Pentachlorobiphenyl	0.1408	0.1487	0.1301	0.1494	0.1408	0.1407	0.1418	4.9#
74)M	g-Chlordane	0.1198	0.1346	0.0966	0.1111	0.1125	0.1033	0.1130	11.8#
75)M	Stirofos	0.2970	0.2947	0.2007	0.2563	0.3240	0.3716	0.2907	20.1#
76)M	Butachlor	0.2470	0.2021	0.1857	0.2290	0.2441	0.2572	0.2275	12.3#
77)M	a-Chlordane	0.1002	0.1062	0.0918	0.1052	0.1042	0.0988	0.1011	5.3#
78)M	Endosulfan I	0.0625	0.0840	0.0684	0.0762	0.0665	0.0675	0.0708	11.1#
79)M	trans-Nonachlor	0.1185	0.1168	0.1075	0.1163	0.1129	0.1096	0.1136	3.8#
80)M	Fenamiphos	0.0398	0.0311	0.0230	0.0256	0.0470	0.0661	0.0388	41.5#
81)M	Napropamide	0.5312	0.4929	0.4291	0.5835	0.6160	0.6561	0.5515	15.2#
82)M	Tricyclazole	0.0338	0.0473	0.0357	0.0281	0.0457	0.0654	0.0427	31.2#
83)M	p,p'-DDE	0.1836	0.1980	0.1700	0.1938	0.1940	0.1824	0.1870	5.6#
84)M	Hexachlorobiphenyl	0.1335	0.1393	0.1325	0.1361	0.1344	0.1338	0.1349	1.8#
85)I	CHRYSENE-D12	----------ISTD----------							
86)M	Pyrene	3.1865	2.5894	2.2769	2.8936	2.7609	2.6613	2.7281	11.2#
87)M	Dieldrin	1.2124	1.2545	1.0371	1.1546	0.9730	0.8423	1.0790	14.6#
88)M	Carboxin	1.1031	0.6779	0.7226	0.9389	1.0931	1.1358	0.9453	21.4#
89)M	Endrin	0.2674	0.1260	0.2016	0.2359	0.2454	0.2192	0.2159	22.9#
90)M	Chlorobenzilate	1.2721	0.6491	0.6084	0.7736	1.0713	1.0879	0.9104	29.7#

(#) = Out of Range (Advisory for non CCC, SPCC)

Response Factor Report GC/MS Ins

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

Calibration Files

2.0	=5217H.D	0.1	=5218H.D	0.5	=5219H.D
1.0	=5220H.D	5.0	=5221H.D	10.0	=5222H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
91)M	Endosulfan II	0.1241	0.1501	0.0530	0.1143	0.1140	0.1034	0.1098	29.2#
92)M	p,p'-DDD	1.0720	0.8513	0.6903	0.9013	0.9045	0.8771	0.8828	13.8#
93)M	Endrin aldehyde	0.3656	0.3911	0.2843	0.2690	0.2906	0.2897	0.3150	16.0#
94)M	Norflurazon	0.3733	0.1839	0.2342	0.2792	0.3601	0.3796	0.3017	27.1#
95)M	Butylbenzylphthalat	1.9063	1.4661	1.1563	1.5001	1.6718	1.6587	1.5599	16.2#
96)M	Endosulfan sulfate	0.0914	0.0897	0.0830	0.0623	0.1216	0.0525	0.0834	29.2#
97)M	p,p'-DDT	0.7022	0.3939	0.3336	0.5305	0.6544	0.6604	0.5458	28.1#
98)M	Hexazinone	0.8370	0.6267	0.4336	0.6702	0.7950	0.9441	0.7178	25.1#
99)M	Di(2-ethylhexyl)adi	2.2084	1.3491	1.3479	1.7047	1.8760	1.8258	1.7186	19.3#
100)S	Triphenylphosphate	0.3670	0.3352	0.2034	0.3374	0.1639	0.3066	0.2856	28.8#
101)M	Heptachlorobiphenyl	0.2694	0.1668	0.2081	0.2176	0.2174	0.2230	0.2171	15.1#
102)M	Benz(a)anthracene	1.5447	1.7670	1.2761	1.4559	1.4266	1.4351	1.4842	11.0#
103)M	Octachlorobiphenyl	0.3861	0.2990	0.2814	0.3587	0.3186	0.2815	0.3209	13.4#
104)M	Methoxychlor	1.1107	0.5653	0.5616	0.7396	0.9850	1.0532	0.8359	29.4#
105)M	Chrysene	1.2864	1.1232	1.1938	1.1747	1.2441	1.2094	1.2053	4.7#
106)M	bis(2-Ethylhexyl)ph	2.4441	2.3860	1.5895	1.8707	2.1036	2.0589	2.0755	15.4#

107)M	Fenarimol	0.1937	0.2689	0.1819	0.1397	0.2111	0.2367	0.2053	21.8#
108)M	cis-Permethrin	2.0198	1.3692	1.3687	1.7123	1.8898	1.9544	1.7190	16.9#
109)M	trans-Permethrin	2.0704	1.6127	1.3236	1.3553	1.7539	1.8093	1.6542	17.3#
110)M	Benzo(b)fluoranthen	0.9019	0.9777	0.7915	0.9131	0.8926	0.8947	0.8952	6.7#
111)M	Benzo(k)fluoranthen	0.8565	0.8413	0.8219	1.0137	0.9177	0.9122	0.8939	7.8#
112)M	Benzo(a)pyrene	0.7447	0.8958	0.7066	0.8370	0.8045	0.8040	0.7988	8.4#
113)M	Fluridone	0.1533	0.1970	0.0995	0.1157	0.1537	0.2066	0.1543	27.6#
114)S	Perylene-d12	0.5456	0.7636	0.5981	0.7270	0.2950	0.5486	0.5797	28.8#
115)M	Indeno(1,2,3-cd)pyr	0.5976	0.8780	0.6119	0.6979	0.7010	0.7304	0.7028	14.3#
116)M	Dibenz(a,h)anthrace	0.4754	0.6009	0.5106	0.5734	0.5569	0.5668	0.5473	8.4#
117)M	Benzo(g,h,i)perylen	0.4959	0.7049	0.6110	0.6219	0.5757	0.6046	0.6023	11.3#

118)I p-Terphenyl-d14 ----------ISTD----------

(#) = Out of Range (Advisory for non CCC, SPCC) 0 SPCC fail 0 CCC fail

DRINKWI.M Mon Oct 08 19:47:59 2001

Average RSD= 15.93

107)M	Fenarimol	0.1937	0.1375	0.1819	0.1397	0.2111	0.2367	0.1834	21.4#
108)M	cis-Permethrin	2.0198	0.7746	1.3687	1.7123	1.8898	1.9544	1.6199	29.4#
109)M	trans-Permethrin	2.0704	0.1190	1.3236	1.3553	1.7539	1.8093	1.4053	49.2#
110)M	Benzo(b)fluoranthen	0.9019	0.9363	0.7915	0.9131	0.8926	0.8947	0.8883	5.6#
111)M	Benzo(k)fluoranthen	0.8565	1.2673	0.8219	1.0137	0.9177	0.9122	0.9649	16.8#
112)M	Benzo(a)pyrene	0.7447	0.6951	0.7066	0.8370	0.8045	0.8040	0.7653	7.6#
113)M	Fluridone	0.1533	0.1808	0.0995	0.1157	0.1537	0.2066	0.1516	26.2#
114)S	Perylene-d12	0.5456	0.9255	0.5981	0.7270	0.2950	0.5486	0.6066	34.6#
115)M	Indeno(1,2,3-cd)pyr	0.5976	0.2801	0.6119	0.6979	0.7010	0.7304	0.6031	27.7#
116)M	Dibenz(a,h)anthrace	0.4754	0.5117	0.5106	0.5734	0.5569	0.5668	0.5325	7.3#
117)M	Benzo(g,h,i)perylen	0.4959	0.6200	0.6110	0.6219	0.5757	0.6046	0.5882	8.2#

Only!

118)I p-Terphenyl-d14 ----------ISTD----------

(#) = Out of Range (Advisory for non CCC, SPCC) 0 SPCC fail 0 CCC fail
DRINKWBP.M Mon Oct 08 20:21:14 2001
Average RSD= 33.99 Page 3 of 3

2.0 = 5217H , 0.02 = 5223H , 0.5 = 5219H

1.0 = 5220H , 5.0 = 5221H , 10 = 5222H

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.68	164	1815253	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.07	188	1594727	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.11	240	396202	5.00	ug/ml	0.00
118) p-Terphenyl-d14	26.33	244	626956	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	224523	2.00	ug/ml	0.00
100) Triphenylphosphate	28.30	326	58160	2.83	ug/ml	0.00
114) Perylene-d12	32.78	264	86472	2.11	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.18	82	1029779	1.87	ug/ml	95
4) Dichlorvos	15.79	109	732000	2.18	ug/ml#	70
5) Hexachlorocyclopentadiene	16.89	237	123337	2.08	ug/ml#	71
6) EPTC	17.17	128	416853	1.96	ug/ml#	18
7) Mevinphos	17.92	127	672234	2.60	ug/ml#	56
8) Butylate	17.97	146	258900	1.91	ug/ml#	1
9) Vernolate	18.18	128	478662	1.98	ug/ml#	44
10) Terrazole	18.23	211	105061	2.38	ug/ml#	85
11) Dimethylphthalate	18.21	163	950674	2.04	ug/ml	100
12) Pebulate	18.34	128	488939	2.05	ug/ml#	19
13) 2,6-Dinitrotoluene	18.31	165	172552	2.19	ug/ml#	75
14) Acenaphthylene	18.39	152	1331168	2.07	ug/ml	100
15) Chloroneb	18.83	191	294115	2.04	ug/ml	97
16) 2-Chlorobiphenyl	18.86	188	641480	2.03	ug/ml	100
17) Pentachlorobenzene	19.03	248	154275	2.18	ug/ml#	50
18) Tebuthiuron	19.02	156	135932	0.70	ug/ml#	92
19) 2,4-Dinitrotoluene	19.14	165	149922	2.65	ug/ml#	67
20) Molinate	19.29	126	606214	2.00	ug/ml#	79
21) Diethylphthalate	19.73	149	992054	2.10	ug/ml	100
22) Fluorene	19.88	166	811963	2.18	ug/ml	94
23) Propachlor	19.96	120	533502	2.10	ug/ml#	3
24) Ethoprop	20.27	158	239593	2.38	ug/ml#	25
25) Cycloate	20.31	154	426519	2.08	ug/ml#	1
26) Chlorpropham	20.49	127	296677	2.14	ug/ml#	53
27) Trifluralin	20.52	306	125416	2.30	ug/ml	91
28) alpha-BHC	21.05	181	154295	1.97	ug/ml#	88
29) 2,3-Dichlorobiphenyl	21.09	222	355972	2.04	ug/ml#	53
31) Hexachlorobenzene	21.14	284	173415	1.79	ug/ml#	93
32) Atraton	21.29	196	137516	2.68	ug/ml#	72
33) Prometon	21.40	210	146335	2.37	ug/ml#	82
34) Simazine	21.43	201	104704	2.19	ug/ml	91
35) Atrazine	21.52	200	330513	4.58	ug/ml	100
36) beta-BHC	21.57	183	95282	1.87	ug/ml	95
37) Propazine	21.59	214	151573	2.08	ug/ml#	86
38) Pentachlorophenol	21.63	266	165895	8.07	ug/ml	96
39) g-BHC (Lindane)	21.77	181	120923	1.92	ug/ml#	86
40) Terbufos	21.82	231	182907	2.24	ug/ml#	1
41) Pronamide	21.89	173	276481	2.27	ug/ml#	91
42) Diazinon	21.92	137	201480	1.92	ug/ml#	90
43) Phenanthrene	22.13	178	787560	2.06	ug/ml	97
44) Chlorothalonil	22.09	266	120723	2.01	ug/ml#	88
45) Disulfoton	22.20	88	590936	2.02	ug/ml#	42
46) Anthracene	22.25	178	714257	2.02	ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Methyl paraoxon	22.20	109	122619	2.26	ug/ml#	49
48)	Terbacil	22.19	161	173156	2.40	ug/ml#	81
49)	delta-BHC	22.35	181	83359	1.71	ug/ml#	72
50)	Trichlorobiphenyl	22.68	256	213887	2.00	ug/ml	100
51)	Acetochlor	23.13	146	120401	2.01	ug/ml#	51
52)	Metribuzin	22.98	198	123768	2.43	ug/ml	100
53)	Alachlor	23.13	160	357782	4.17	ug/ml	84
54)	Simetryn	23.21	213	170113	2.36	ug/ml#	91
55)	Ametryn	23.28	227	131061	2.05	ug/ml#	73
56)	Heptachlor	23.36	100	230164	1.81	ug/ml#	32
57)	Prometryn	23.35	241	172496	2.32	ug/ml	89
58)	Terbutryn	23.63	226	141900	2.17	ug/ml	96
59)	Di-n-butyl phthalate	23.76	149	1505152	1.99	ug/ml	99
60)	Bromacil	23.69	205	114676m	2.91	ug/ml	81
61)	Tetrachlorobiphenyl	23.90	292	136168	1.94	ug/ml	100
62)	Aldrin	24.15	66	157005	1.52	ug/ml#	64
63)	Metolachlor	23.97	162	508024	2.14	ug/ml	90
64)	Chlorpyrifos	24.00	314	33594	2.10	ug/ml#	1
65)	DCPA	24.11	301	135203	2.17	ug/ml#	91
66)	Cyanazine	24.09	212	9958	2.26	ug/ml#	11
67)	Triadimefon	24.23	57	223715	2.09	ug/ml#	44
68)	Diphenamid	24.49	167	332998	2.12	ug/ml#	39
69)	MGK 264-A	24.52	111	96539	0.94	ug/ml#	77
70)	Pendimethalin	24.71	252	106106	2.36	ug/ml#	68
71)	MGK 264-B	24.80	164	83151	1.00	ug/ml#	70
72)	Heptachlor epoxide	24.99	81	115150	1.74	ug/ml#	63
73)	Pentachlorobiphenyl	25.03	326	89826	1.77	ug/ml	100
74)	g-Chlordane	25.50	375	76449	2.12	ug/ml	100
75)	Stirofos	25.51	109	189423	2.08	ug/ml#	62
76)	Butachlor	25.57	176	157563	2.22	ug/ml	100
77)	a-Chlordane	25.78	373	63902	1.76	ug/ml#	81
78)	Endosulfan I	25.80	195	39870	1.78	ug/ml#	72
79)	trans-Nonachlor	25.85	409	75610	1.74	ug/ml#	50
80)	Fenamiphos	25.82	303	25405	2.52	ug/ml#	30
81)	Napropamide	25.90	72	338871	1.83	ug/ml#	70
82)	Tricyclazole	26.18	189	21543m	2.99	ug/ml	55
83)	p,p'-DDE	26.21	246	117103	1.81	ug/ml	95
84)	Hexachlorobiphenyl	26.35	360	85149	1.86	ug/ml#	64
86)	Pyrene	25.78	202	504998	2.43	ug/ml#	77
87)	Dieldrin	26.38	79	192150	2.15	ug/ml#	59
88)	Carboxin	26.40	143	174824	2.57	ug/ml#	52
89)	Endrin	26.86	81	42374	2.06	ug/ml#	28
90)	Chlorobenzilate	26.91	139	201600	3.61	ug/ml	90
91)	Endosulfan II	27.07	195	19665	2.32	ug/ml#	69
92)	p,p'-DDD	27.12	235	169898	2.38	ug/ml#	92
93)	Endrin aldehyde	27.39	67	57945	2.18	ug/ml#	47
94)	Norflurazon	27.68	145	59161	2.89	ug/ml#	68
95)	Butylbenzylphthalate	27.79	149	302111	2.63	ug/ml	97
96)	Endosulfan sulfate	27.88	272	14491	1.48	ug/ml#	78
97)	p,p'-DDT	27.94	235	111285	2.36	ug/ml#	76
98)	Hexazinone	28.02	171	132652	3.02	ug/ml#	88
99)	Di(2-ethylhexyl)adipate	28.13	129	349982	2.83	ug/ml#	62
101)	Heptachlorobiphenyl	28.99	394	42702	2.41	ug/ml#	1
102)	Benz(a)anthracene	29.09	228	244802	2.16	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.10	430	61197	2.32 ug/ml#	73
104) Methoxychlor	29.10	227	176020m	2.56 ug/ml	42
105) Chrysene	29.18	228	203866	2.17 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.47	149	387337	2.64 ug/ml	99
107) Fenarimol	30.35	139	30692	2.33 ug/ml#	94
108) cis-Permethrin	31.00	183	275290	2.06 ug/ml#	70
109) trans-Permethrin	31.13	183	45936	0.38 ug/ml#	91
110) Benzo(b)fluoranthene	31.88	252	142928	2.00 ug/ml#	81
111) Benzo(k)fluoranthene	31.95	252	135733	2.11 ug/ml#	82
112) Benzo(a)pyrene	32.65	252	118020	2.07 ug/ml	100
113) Fluridone	32.63	328	24295	4.98 ug/ml#	89
115) Indeno(1,2,3-cd)pyrene	35.52	276	94703m	2.14 ug/ml	59
116) Dibenz(a,h)anthracene	35.61	278	75339	2.39 ug/ml#	28
117) Benzo(g,h,i)perylene	36.29	276	78590	2.10 ug/ml#	21

(#) = qualifier out of range (m) = manual integration
5217H.D DRINKWI.M Mon Oct 08 20:10:27 2001

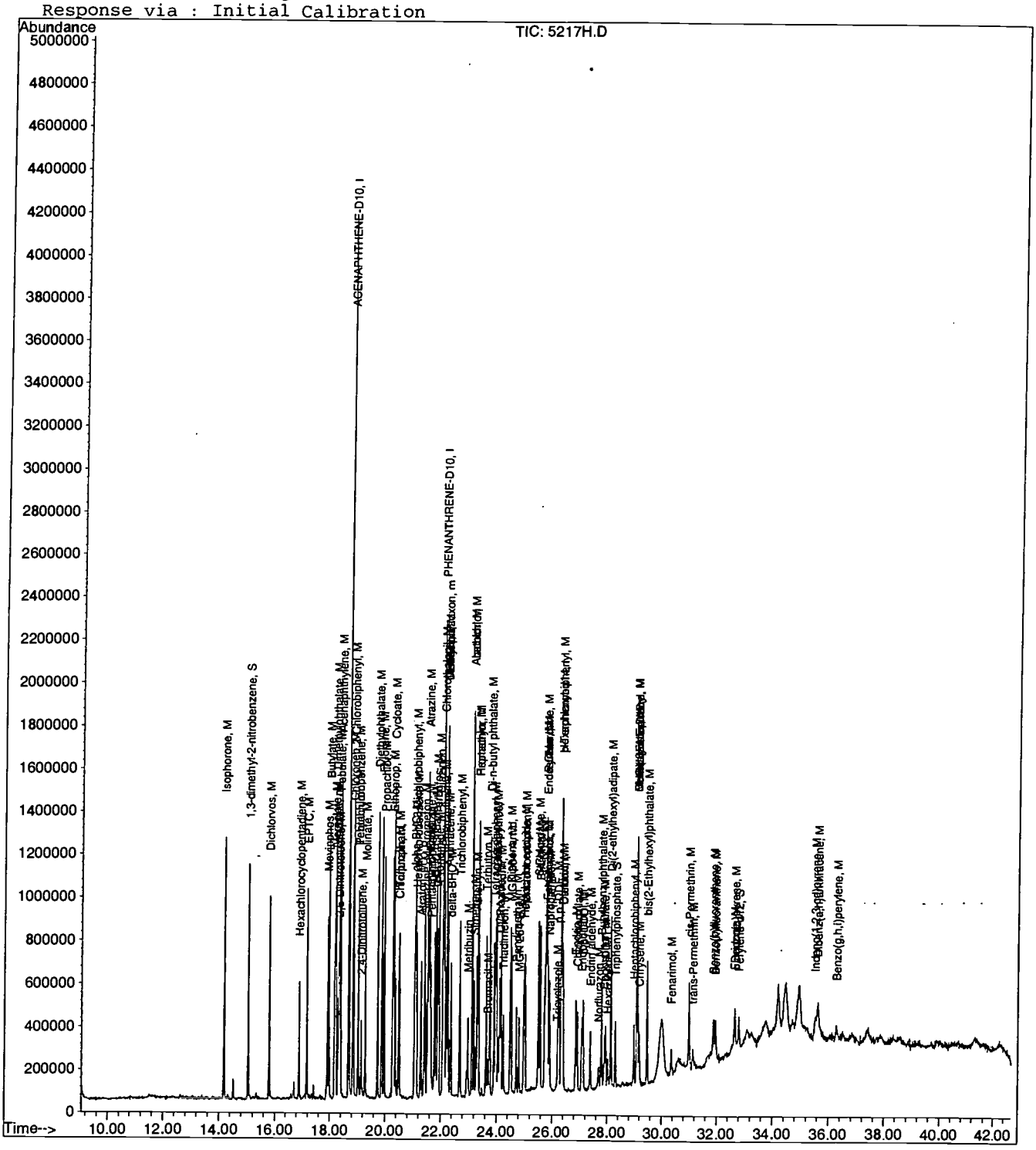
Quantitation Report

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5218H.D
Acq On : 8 Oct 01 2:49 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:09 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.68	164	1923967	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.07	188	1576400	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.11	240	576456	5.00	ug/ml	0.00
118) p-Terphenyl-d14	26.33	244	726417	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	12625	0.11	ug/ml	0.00
100) Triphenylphosphate	28.29	326	3865	0.13	ug/ml	0.00
114) Perylene-d12	32.79	264	8804	0.15	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.18	82	56698	0.10	ug/ml#	90
4) Dichlorvos	15.80	109	29190	0.08	ug/ml#	76
5) Hexachlorocyclopentadiene	16.89	237	4220	0.07	ug/ml#	69
6) EPTC	17.17	128	23747	0.11	ug/ml#	1
7) Mevinphos	17.91	127	23049	0.08	ug/ml#	61
8) Butylate	17.98	146	15610	0.11	ug/ml#	1
9) Vernolate	18.18	128	25603	0.10	ug/ml#	44
10) Terrazole	18.23	211	3080	0.07	ug/ml#	67
11) Dimethylphthalate	18.21	163	50057	0.10	ug/ml	100
12) Pebulate	18.34	128	26741	0.11	ug/ml#	1
13) 2,6-Dinitrotoluene	18.30	165	7402m	0.09	ug/ml	35
14) Acenaphthylene	18.38	152	73644	0.11	ug/ml	100
15) Chloroneb	18.82	191	16121	0.11	ug/ml	91
16) 2-Chlorobiphenyl	18.85	188	36832	0.11	ug/ml	100
17) Pentachlorobenzene	19.03	248	8593	0.11	ug/ml#	56
18) Tebuthiuron	19.01	156	4251m	0.02	ug/ml	34
19) 2,4-Dinitrotoluene	19.16	165	5808m	0.10	ug/ml	39
20) Molinate	19.29	126	29196	0.09	ug/ml#	76
21) Diethylphthalate	19.73	149	47932	0.10	ug/ml	100
22) Fluorene	19.88	166	37178	0.09	ug/ml	85
23) Propachlor	19.96	120	23126	0.09	ug/ml#	3
24) Ethoprop	20.27	158	9638	0.09	ug/ml#	36
25) Cycloate	20.30	154	22768	0.10	ug/ml#	1
26) Chlorpropham	20.50	127	11314	0.08	ug/ml#	51
27) Trifluralin	20.51	306	4138	0.07	ug/ml#	89
28) alpha-BHC	21.05	181	8652	0.10	ug/ml#	90
29) 2,3-Dichlorobiphenyl	21.08	222	21047	0.11	ug/ml#	74
31) Hexachlorobenzene	21.13	284	10178	0.11	ug/ml#	79
32) Atraton	21.29	196	3400	0.07	ug/ml#	90
33) Prometon	21.40	210	3810	0.06	ug/ml	85
34) Simazine	21.42	201	3804	0.08	ug/ml#	40
35) Atrazine	21.52	200	11310	0.16	ug/ml	100
36) beta-BHC	21.57	183	5719	0.11	ug/ml#	87
37) Propazine	21.59	214	7012	0.10	ug/ml#	75
38) Pentachlorophenol	21.65	266	445	0.02	ug/ml#	33
39) g-BHC (Lindane)	21.76	181	6505	0.10	ug/ml#	87
40) Terbufos	21.82	231	6489	0.08	ug/ml#	1
41) Pronamide	21.89	173	9865	0.08	ug/ml#	81
42) Diazinon	21.92	137	9130	0.09	ug/ml#	82
43) Phenanthrene	22.12	178	39450	0.10	ug/ml	98
44) Chlorothalonil	22.08	266	3360m	0.06	ug/ml	39
45) Disulfoton	22.19	88	25375	0.09	ug/ml#	46
46) Anthracene	22.25	178	39288	0.11	ug/ml	99

(#) = qualifier out of range (m) = manual integration
5218H.D DRINKWI.M Mon Oct 08 20:11:33 2001

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5218H.D
Acq On : 8 Oct 01 2:49 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:09 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Methyl paraoxon	22.19	109	5170	0.10	ug/ml#	38
48)	Terbacil	22.18	161	8202	0.12	ug/ml#	58
49)	delta-BHC	22.35	181	4055	0.08	ug/ml#	77
50)	Trichlorobiphenyl	22.68	256	12193	0.12	ug/ml	100
51)	Acetochlor	23.14	146	7288	0.12	ug/ml#	44
52)	Metribuzin	22.96	198	2966	0.06	ug/ml	100
53)	Alachlor	23.12	160	16894	0.20	ug/ml	93
54)	Simetryn	23.21	213	4555	0.06	ug/ml#	67
55)	Ametryn	23.29	227	4180	0.07	ug/ml#	58
56)	Heptachlor	23.36	100	13068	0.10	ug/ml#	19
57)	Prometryn	23.35	241	4518	0.06	ug/ml#	18
58)	Terbutryn	23.63	226	4895	0.08	ug/ml#	72
59)	Di-n-butyl phthalate	23.75	149	78079	0.10	ug/ml	100
60)	Bromacil	23.76	205	5128m	0.13	ug/ml	35
61)	Tetrachlorobiphenyl	23.89	292	6653	0.10	ug/ml	100
62)	Aldrin	24.15	66	10788	0.11	ug/ml#	54
63)	Metolachlor	23.96	162	21883	0.09	ug/ml	90
64)	Chlorpyrifos	24.00	314	519	0.03	ug/ml#	22
65)	DCPA	24.10	301	6323	0.10	ug/ml#	85
66)	Cyanazine	24.10	212	343	0.08	ug/ml#	64
67)	Triadimefon	24.23	57	8192	0.08	ug/ml#	49
68)	Diphenamid	24.49	167	10864m	0.07	ug/ml	95
69)	MGK 264-A	24.53	111	4667	0.05	ug/ml#	77
70)	Pendimethalin	24.71	252	2013	0.05	ug/ml#	72
71)	MGK 264-B	24.79	164	5327	0.06	ug/ml#	57
72)	Heptachlor epoxide	24.98	81	9564	0.15	ug/ml#	37
73)	Pentachlorobiphenyl	25.02	326	4689	0.09	ug/ml	100
74)	g-Chlordane	25.51	375	4244	0.12	ug/ml	100
75)	Stirofos	25.50	109	9290	0.10	ug/ml#	42
76)	Butachlor	25.59	176	6371	0.09	ug/ml	100
77)	a-Chlordane	25.77	373	3349	0.09	ug/ml	86
78)	Endosulfan I	25.79	195	2647	0.12	ug/ml#	55
79)	trans-Nonachlor	25.85	409	3681	0.09	ug/ml#	1
80)	Fenamiphos	25.83	303	979m	0.10	ug/ml	39
81)	Napropamide	25.89	72	15539	0.08	ug/ml#	68
82)	Tricyclazole	26.23	189	1492m	0.21	ug/ml	1
83)	p,p'-DDE	26.21	246	6244	0.10	ug/ml	94
84)	Hexachlorobiphenyl	26.35	360	4393	0.10	ug/ml#	40
86)	Pyrene	25.78	202	29854	0.10	ug/ml#	72
87)	Dieldrin	26.38	79	14463	0.11	ug/ml#	54
88)	Carboxin	26.39	143	7816	0.08	ug/ml#	29
89)	Endrin	26.85	81	1453m	0.05	ug/ml	45
90)	Chlorobenzilate	26.91	139	7483	0.09	ug/ml#	73
91)	Endosulfan II	27.07	195	1731	0.14	ug/ml#	1
92)	p,p'-DDD	27.12	235	9815	0.09	ug/ml#	82
93)	Endrin aldehyde	27.37	67	4509	0.12	ug/ml#	48
94)	Norflurazon	27.71	145	2120m	0.07	ug/ml	1
95)	Butylbenzylphthalate	27.78	149	16903	0.10	ug/ml#	75
96)	Endosulfan sulfate	27.87	272	1034	0.07	ug/ml#	17
97)	p,p'-DDT	27.94	235	4541	0.07	ug/ml#	74
98)	Hexazinone	28.01	171	7225m	0.11	ug/ml	20
99)	Di(2-ethylhexyl)adipate	28.12	129	15554	0.09	ug/ml#	70
101)	Heptachlorobiphenyl	28.98	394	1923	0.07	ug/ml#	1
102)	Benz(a)anthracene	29.09	228	20372	0.12	ug/ml#	65

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5218H.D
Acq On : 8 Oct 01 2:49 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:09 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.10	430	3447	0.09 ug/ml	92
104) Methoxychlor	29.10	227	6517	0.07 ug/ml#	1
105) Chrysene	29.18	228	12950	0.09 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.47	149	27509	0.13 ug/ml#	52
107) Fenarimol	30.39	139	3100	0.16 ug/ml#	66
108) cis-Permethrin	31.00	183	13576	0.07 ug/ml#	41
109) trans-Permethrin	31.13	183	2603m	0.01 ug/ml	34
110) Benzo(b)fluoranthene	31.88	252	11272	0.11 ug/ml#	65
111) Benzo(k)fluoranthene	31.95	252	9699m	0.10 ug/ml	34
112) Benzo(a)pyrene	32.66	252	10328m	0.12 ug/ml	100
113) Fluridone	32.59	328	2271m	0.32 ug/ml	1
115) Indeno(1,2,3-cd)pyrene	35.53	276	10123m	0.16 ug/ml	60
116) Dibenz(a,h)anthracene	35.61	278	6928m	0.15 ug/ml	4
117) Benzo(g,h,i)perylene	36.32	276	8127m	0.15 ug/ml	44

(#) = qualifier out of range (m) = manual integration
5218H.D DRINKWI.M Mon Oct 08 20:11:36 2001

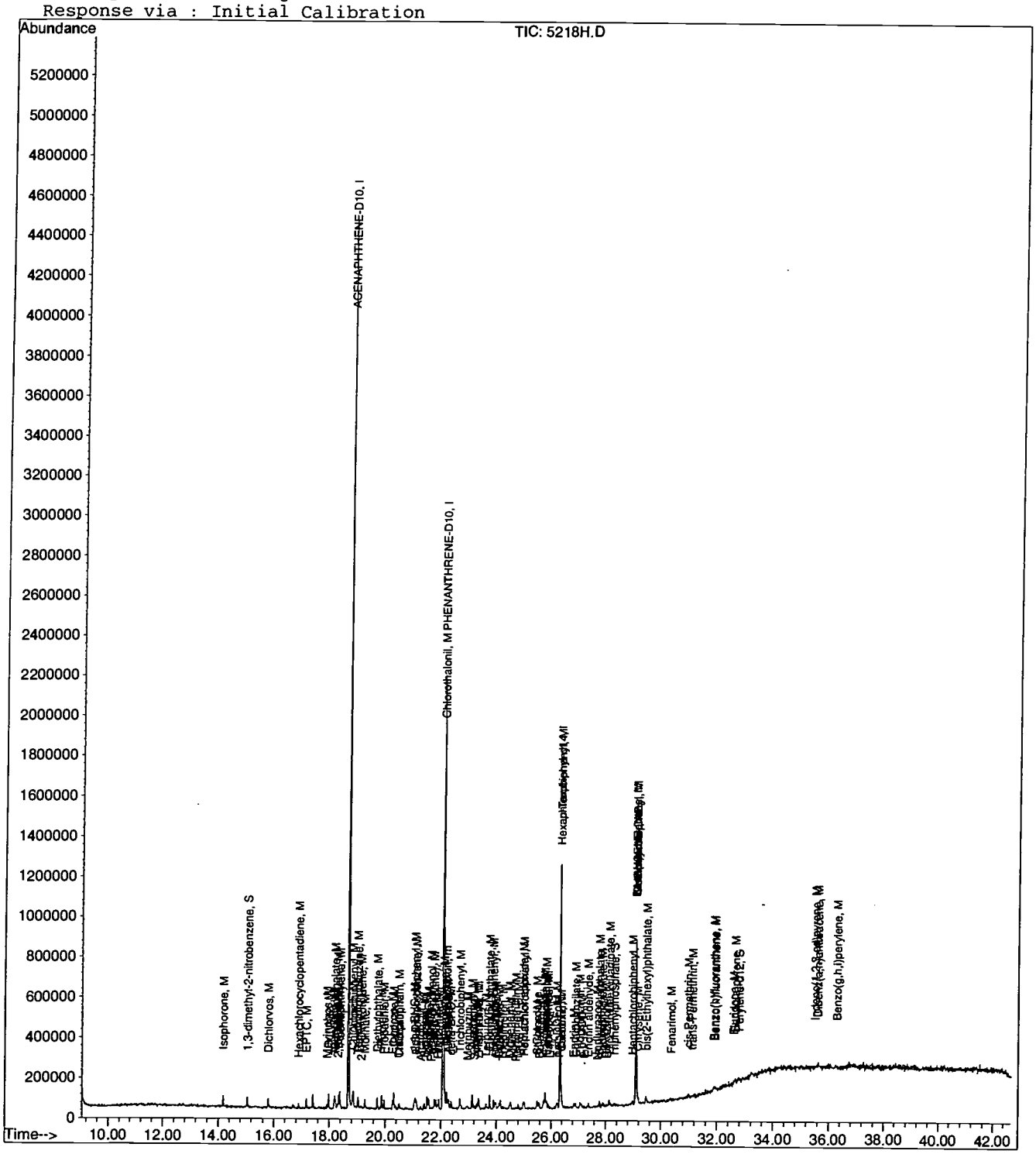
Quantitation Report

Data File : D:\HDATA~1\H100801\5218H.D
Acq On : 8 Oct 01 2:49 am
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:09 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5219H.D
Acq On : 8 Oct 01 3:40 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:41 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.68	164	1722145	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.06	188	1433252	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.10	240	494745	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.33	244	614483	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.05	134	53679	0.50 ug/ml	0.00
100) Triphenylphosphate	28.30	326	10063	0.39 ug/ml	0.00
114) Perylene-d12	32.78	264	29593	0.58 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.17	82	223520	0.43 ug/ml	95
4) Dichlorvos	15.79	109	142036	0.45 ug/ml#	67
5) Hexachlorocyclopentadiene	16.89	237	19122	0.34 ug/ml#	71
6) EPTC	17.16	128	92040	0.46 ug/ml#	15
7) Mevinphos	17.91	127	101841	0.41 ug/ml#	55
8) Butylate	17.98	146	58783	0.46 ug/ml#	1
9) Vernolate	18.17	128	108227	0.47 ug/ml#	42
10) Terrazole	18.23	211	15014	0.36 ug/ml#	84
11) Dimethylphthalate	18.21	163	212220	0.48 ug/ml	100
12) Pebulate	18.34	128	110277	0.49 ug/ml#	15
13) 2,6-Dinitrotoluene	18.30	165	26554	0.35 ug/ml#	67
14) Acenaphthylene	18.38	152	303782	0.50 ug/ml	100
15) Chloroneb	18.83	191	66890	0.49 ug/ml	95
16) 2-Chlorobiphenyl	18.86	188	144617	0.48 ug/ml	100
17) Pentachlorobenzene	19.03	248	33985	0.51 ug/ml#	49
18) Tebuthiuron	19.03	156	11757	0.06 ug/ml#	67
19) 2,4-Dinitrotoluene	19.14	165	19133	0.36 ug/ml#	74
20) Molinate	19.29	126	135000	0.47 ug/ml#	76
21) Diethylphthalate	19.72	149	200239	0.45 ug/ml	100
22) Fluorene	19.88	166	169101	0.48 ug/ml	88
23) Propachlor	19.96	120	104524	0.43 ug/ml#	3
24) Ethoprop	20.26	158	41578	0.43 ug/ml#	20
25) Cycloate	20.31	154	82988	0.43 ug/ml#	1
26) Chlorpropham	20.49	127	50665	0.39 ug/ml#	52
27) Trifluralin	20.51	306	17321	0.33 ug/ml	86
28) alpha-BHC	21.05	181	29833	0.40 ug/ml#	83
29) 2,3-Dichlorobiphenyl	21.09	222	76703	0.46 ug/ml#	49
31) Hexachlorobenzene	21.13	284	34818	0.40 ug/ml#	79
32) Atraton	21.27	196	17576	0.38 ug/ml#	75
33) Prometon	21.39	210	24182	0.44 ug/ml#	77
34) Simazine	21.42	201	17076	0.40 ug/ml#	83
35) Atrazine	21.51	200	58742	0.91 ug/ml	100
36) beta-BHC	21.56	183	18469m	0.40 ug/ml	88
37) Propazine	21.58	214	30592	0.47 ug/ml#	84
38) Pentachlorophenol	21.65	266	14708m	0.80 ug/ml	84
39) g-BHC (Lindane)	21.77	181	21666	0.38 ug/ml#	69
40) Terbufos	21.83	231	31806	0.43 ug/ml#	1
41) Pronamide	21.88	173	41772	0.38 ug/ml#	91
42) Diazinon	21.92	137	45121	0.48 ug/ml#	79
43) Phenanthrene	22.12	178	169237	0.49 ug/ml	98
44) Chlorothalonil	22.09	266	19334m	0.36 ug/ml	98
45) Disulfoton	22.20	88	109502	0.42 ug/ml#	44
46) Anthracene	22.25	178	144447	0.45 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5219H.D
Acq On : 8 Oct 01 3:40 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:41 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.19	109	17198m	0.35 ug/ml	38
48) Terbacil	22.18	161	24947	0.39 ug/ml#	72
49) delta-BHC	22.35	181	18515	0.42 ug/ml#	64
50) Trichlorobiphenyl	22.68	256	37681	0.39 ug/ml	100
51) Acetochlor	23.13	146	23794	0.44 ug/ml#	54
52) Metribuzin	22.97	198	13785	0.30 ug/ml	100
53) Alachlor	23.13	160	68788	0.89 ug/ml	86
54) Simetryn	23.20	213	23423	0.36 ug/ml#	85
55) Ametryn	23.28	227	25196	0.44 ug/ml#	82
56) Heptachlor	23.35	100	48349	0.42 ug/ml#	21
57) Prometryn	23.33	241	29196	0.44 ug/ml#	85
58) Terbutryn	23.62	226	26159	0.45 ug/ml	91
59) Di-n-butyl phthalate	23.75	149	287349	0.42 ug/ml	97
60) Bromacil	23.67	205	17459m	0.49 ug/ml	42
61) Tetrachlorobiphenyl	23.90	292	22526	0.36 ug/ml	100
62) Aldrin	24.15	66	41420	0.45 ug/ml#	59
63) Metolachlor	23.96	162	94854	0.44 ug/ml#	85
64) Chlorpyrifos	23.99	314	7640	0.53 ug/ml#	1
65) DCPA	24.10	301	28966	0.52 ug/ml#	77
66) Cyanazine	24.09	212	3825	0.97 ug/ml#	72
67) Triadimefon	24.23	57	39389	0.41 ug/ml#	39
68) Diphenamid	24.49	167	56569	0.40 ug/ml#	25
69) MGK 264-A	24.53	111	15471	0.17 ug/ml#	58
70) Pendimethalin	24.71	252	11243	0.28 ug/ml#	68
71) MGK 264-B	24.79	164	17700	0.24 ug/ml#	80
72) Heptachlor epoxide	24.97	81	22591	0.38 ug/ml#	62
73) Pentachlorobiphenyl	25.01	326	18650	0.41 ug/ml	100
74) g-Chlordane	25.49	375	13844	0.43 ug/ml	100
75) Stirofos	25.50	109	28765	0.35 ug/ml#	56
76) Butachlor	25.56	176	26619	0.42 ug/ml	100
77) a-Chlordane	25.78	373	13159	0.40 ug/ml#	74
78) Endosulfan I	25.80	195	9799	0.49 ug/ml#	68
79) trans-Nonachlor	25.83	409	15414	0.39 ug/ml#	44
80) Fenamiphos	25.82	303	3302m	0.37 ug/ml	1
81) Napropamide	25.89	72	61498	0.37 ug/ml#	74
82) Tricyclazole	26.17	189	5119m	0.79 ug/ml	66
83) p,p'-DDE	26.20	246	24364	0.42 ug/ml	93
84) Hexachlorobiphenyl	26.35	360	18988	0.46 ug/ml#	54
86) Pyrene	25.78	202	112649	0.43 ug/ml#	77
87) Dieldrin	26.38	79	51309	0.46 ug/ml#	53
88) Carboxin	26.41	143	35752	0.42 ug/ml#	54
89) Endrin	26.84	81	9974	0.39 ug/ml#	45
90) Chlorobenzilate	26.90	139	30098	0.43 ug/ml#	82
91) Endosulfan II	27.08	195	2624	0.25 ug/ml#	1
92) p,p'-DDD	27.11	235	34153	0.38 ug/ml#	89
93) Endrin aldehyde	27.37	67	14064	0.42 ug/ml#	42
94) Norflurazon	27.69	145	11589	0.45 ug/ml#	75
95) Butylbenzylphthalate	27.79	149	57206	0.40 ug/ml#	92
96) Endosulfan sulfate	27.88	272	4106	0.34 ug/ml#	40
97) p,p'-DDT	27.94	235	16504	0.28 ug/ml#	74
98) Hexazinone	28.00	171	21454	0.39 ug/ml#	85
99) Di(2-ethylhexyl)adipate	28.13	129	66685	0.43 ug/ml#	62
101) Heptachlorobiphenyl	28.98	394	10298	0.46 ug/ml#	1
102) Benz(a)anthracene	29.08	228	63135m	0.45 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5219H.D
Acq On : 8 Oct 01 3:40 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:41 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.08	430	13920	0.42 ug/ml#	76
104) Methoxychlor	29.09	227	27786	0.32 ug/ml#	1
105) Chrysene	29.17	228	59065	0.50 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.47	149	78639	0.43 ug/ml#	94
107) Fenarimol	30.36	139	8998m	0.55 ug/ml	48
108) cis-Permethrin	30.99	183	58235	0.35 ug/ml#	70
109) trans-Permethrin	31.14	183	9168	0.06 ug/ml#	67
110) Benzo(b)fluoranthene	31.87	252	39160	0.44 ug/ml#	78
111) Benzo(k)fluoranthene	31.94	252	40665	0.51 ug/ml#	85
112) Benzo(a)pyrene	32.64	252	34957	0.49 ug/ml	100
113) Fluridone	32.62	328	4924m	0.81 ug/ml	85
115) Indeno(1,2,3-cd)pyrene	35.52	276	30273m	0.55 ug/ml	69
116) Dibenz(a,h)anthracene	35.61	278	25261m	0.64 ug/ml	60
117) Benzo(g,h,i)perylene	36.30	276	30231m	0.65 ug/ml	1

(#) = qualifier out of range (m) = manual integration

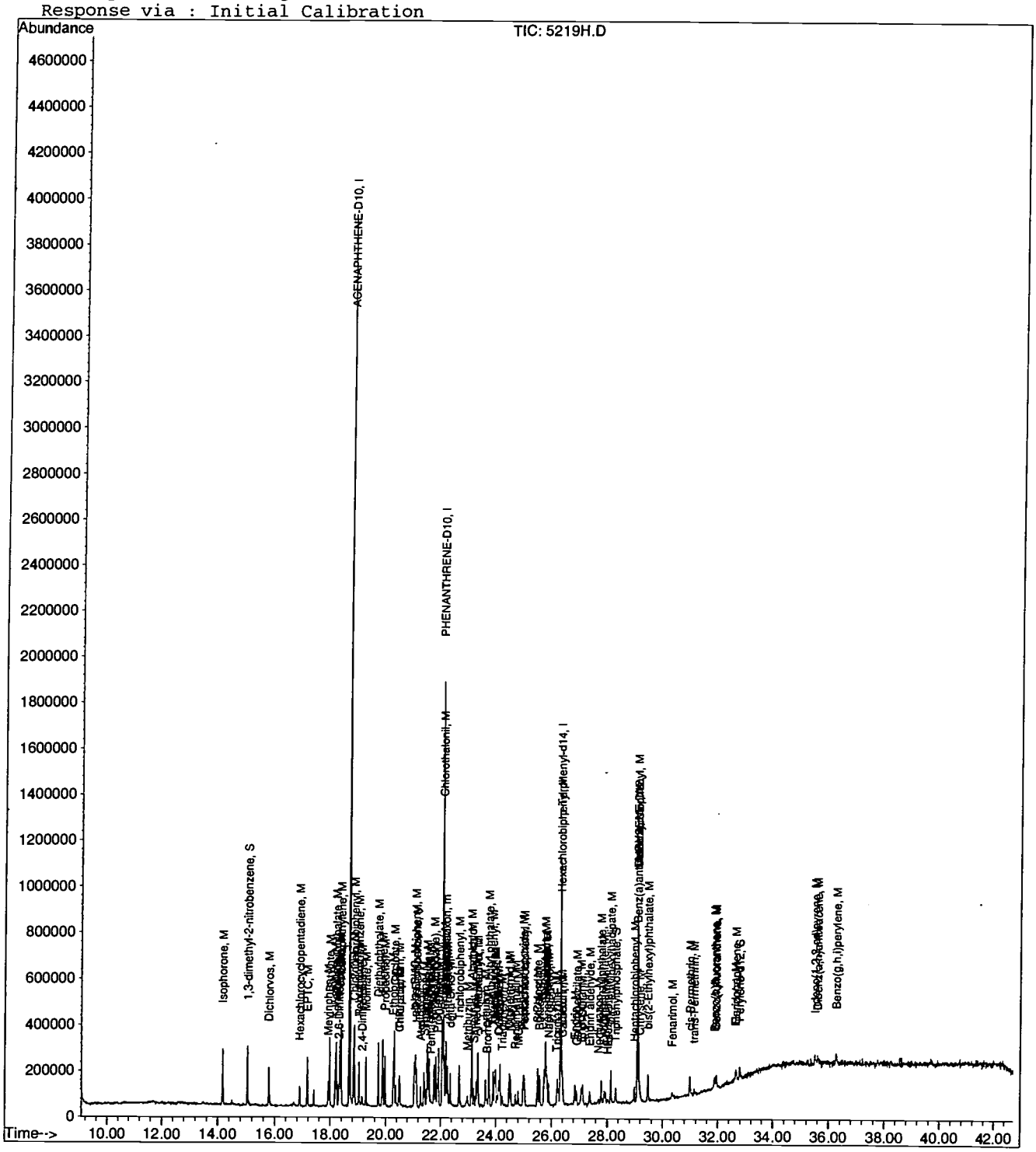
Quantitation Report

Data File : D:\HDATA~1\H100801\5219H.D
Acq On : 8 Oct 01 3:40 am
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:41 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5220H.D
Acq On : 8 Oct 01 4:31 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.68	164	1794121	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.07	188	1495616	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.10	240	460335	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.33	244	635867	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	146457	1.32 ug/ml	0.00
100) Triphenylphosphate	28.30	326	31064	1.30 ug/ml	0.00
114) Perylene-d12	32.77	264	66930	1.40 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.17	82	539786	0.99 ug/ml	98
4) Dichlorvos	15.79	109	334361	1.01 ug/ml#	68
5) Hexachlorocyclopentadiene	16.88	237	52235	0.89 ug/ml#	68
6) EPTC	17.16	128	229127	1.09 ug/ml#	21
7) Mevinphos	17.91	127	260409	1.02 ug/ml#	58
8) Butylate	17.97	146	124414	0.93 ug/ml#	1
9) Vernolate	18.17	128	256829	1.08 ug/ml#	43
10) Terrazole	18.23	211	38494	0.88 ug/ml#	76
11) Dimethylphthalate	18.21	163	484218	1.05 ug/ml	100
12) Pebulate	18.33	128	261510	1.11 ug/ml#	8
13) 2,6-Dinitrotoluene	18.30	165	74161	0.95 ug/ml#	76
14) Acenaphthylene	18.38	152	712066	1.12 ug/ml	100
15) Chloroneb	18.82	191	146821	1.03 ug/ml	99
16) 2-Chlorobiphenyl	18.85	188	334136	1.07 ug/ml	100
17) Pentachlorobenzene	19.03	248	77726	1.11 ug/ml#	51
18) Tebuthiuron	19.01	156	36387	0.19 ug/ml#	92
19) 2,4-Dinitrotoluene	19.14	165	53159	0.95 ug/ml#	64
20) Molinate	19.28	126	315178	1.05 ug/ml#	74
21) Diethylphthalate	19.73	149	505050	1.08 ug/ml	100
22) Fluorene	19.87	166	393541	1.07 ug/ml	94
23) Propachlor	19.95	120	262859	1.05 ug/ml#	3
24) Ethoprop	20.27	158	107610	1.08 ug/ml#	23
25) Cycloate	20.30	154	221185	1.09 ug/ml#	1
26) Chlorpropham	20.48	127	133820	0.98 ug/ml#	50
27) Trifluralin	20.51	306	51300	0.95 ug/ml	97
28) alpha-BHC	21.04	181	75451	0.98 ug/ml#	92
29) 2,3-Dichlorobiphenyl	21.08	222	180784	1.05 ug/ml#	52
31) Hexachlorobenzene	21.12	284	95808	1.06 ug/ml	89
32) Atraton	21.28	196	52674	1.09 ug/ml#	71
33) Prometon	21.39	210	61419	1.06 ug/ml#	79
34) Simazine	21.41	201	45103	1.01 ug/ml#	77
35) Atrazine	21.51	200	149755	2.21 ug/ml	100
36) beta-BHC	21.56	183	45070	0.94 ug/ml	91
37) Propazine	21.58	214	72133	1.05 ug/ml#	86
38) Pentachlorophenol	21.63	266	49642m	2.57 ug/ml	92
39) g-BHC (Lindane)	21.76	181	60699	1.03 ug/ml#	81
40) Terbufos	21.82	231	83871	1.10 ug/ml#	1
41) Pronamide	21.88	173	113211	0.99 ug/ml#	91
42) Diazinon	21.92	137	109068	1.11 ug/ml#	85
43) Phenanthrene	22.12	178	392153	1.10 ug/ml	97
44) Chlorothalonil	22.08	266	53686	0.95 ug/ml	96
45) Disulfoton	22.19	88	298235	1.09 ug/ml#	41
46) Anthracene	22.25	178	355011	1.07 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5220H.D
Acq On : 8 Oct 01 4:31 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.18	109	47472	0.93 ug/ml#	46
48) Terbacil	22.18	161	71846	1.06 ug/ml#	85
49) delta-BHC	22.34	181	45316	0.99 ug/ml#	85
50) Trichlorobiphenyl	22.68	256	99885	1.00 ug/ml	100
51) Acetochlor	23.12	146	59868	1.07 ug/ml#	54
52) Metribuzin	22.97	198	43071	0.90 ug/ml	100
53) Alachlor	23.12	160	161786	2.01 ug/ml	91
54) Simetryn	23.20	213	70202	1.04 ug/ml	94
55) Ametryn	23.28	227	61564	1.03 ug/ml#	69
56) Heptachlor	23.35	100	114679	0.96 ug/ml#	26
57) Prometryn	23.34	241	71729	1.03 ug/ml#	76
58) Terbutryn	23.62	226	59972	0.98 ug/ml	89
59) Di-n-butyl phthalate	23.75	149	714163	1.01 ug/ml	98
60) Bromacil	23.68	205	49263m	1.33 ug/ml	67
61) Tetrachlorobiphenyl	23.90	292	71632	1.09 ug/ml	100
62) Aldrin	24.14	66	96067	0.99 ug/ml#	60
63) Metolachlor	23.95	162	244674	1.10 ug/ml	89
64) Chlorpyrifos	23.98	314	14103	0.94 ug/ml#	1
65) DCPA	24.10	301	60211	1.03 ug/ml#	78
66) Cyanazine	24.10	212	4510	1.09 ug/ml#	39
67) Triadimefon	24.23	57	86410	0.86 ug/ml#	42
68) Diphenamid	24.49	167	148943	1.01 ug/ml#	29
69) MGK 264-A	24.52	111	45660	0.47 ug/ml#	75
70) Pendimethalin	24.70	252	32518	0.77 ug/ml#	71
71) MGK 264-B	24.80	164	42756	0.55 ug/ml#	68
72) Heptachlor epoxide	24.97	81	58227	0.94 ug/ml#	60
73) Pentachlorobiphenyl	25.01	326	44700	0.94 ug/ml	100
74) g-Chlordane	25.50	375	33231	0.98 ug/ml	100
75) Stirofos	25.51	109	76675	0.90 ug/ml#	57
76) Butachlor	25.56	176	68509	1.03 ug/ml	100
77) a-Chlordane	25.77	373	31453	0.92 ug/ml#	80
78) Endosulfan I	25.78	195	22794	1.08 ug/ml#	75
79) trans-Nonachlor	25.83	409	34778	0.85 ug/ml#	58
80) Fenamiphos	25.81	303	7663	0.81 ug/ml#	34
81) Napropamide	25.89	72	174535	1.01 ug/ml#	65
82) Tricyclazole	26.18	189	8414m	1.24 ug/ml	69
83) p,p'-DDE	26.20	246	57971	0.96 ug/ml	91
84) Hexachlorobiphenyl	26.34	360	40725	0.95 ug/ml#	57
86) Pyrene	25.77	202	266403	1.11 ug/ml#	78
87) Dieldrin	26.38	79	106300	1.02 ug/ml#	55
88) Carboxin	26.40	143	86445	1.09 ug/ml#	45
89) Endrin	26.84	81	21717	0.91 ug/ml#	33
90) Chlorobenzilate	26.90	139	71219	1.10 ug/ml	93
91) Endosulfan II	27.06	195	10525	1.07 ug/ml#	85
92) p,p'-DDD	27.11	235	82979	1.00 ug/ml#	91
93) Endrin aldehyde	27.37	67	24763	0.80 ug/ml#	54
94) Norflurazon	27.67	145	25709	1.08 ug/ml#	76
95) Butylbenzylphthalate	27.78	149	138110	1.03 ug/ml	99
96) Endosulfan sulfate	27.89	272	5733	0.50 ug/ml#	40
97) p,p'-DDT	27.94	235	48843	0.89 ug/ml#	75
98) Hexazinone	28.01	171	61699	1.21 ug/ml#	94
99) Di(2-ethylhexyl)adipate	28.12	129	156949	1.09 ug/ml#	64
101) Heptachlorobiphenyl	28.97	394	20031	0.97 ug/ml#	1
102) Benz(a)anthracene	29.08	228	134037	1.02 ug/ml#	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5220H.D
Acq On : 8 Oct 01 4:31 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103)	Octachlorobiphenyl	29.08	430	33022	1.08 ug/ml#	63
104)	Methoxychlor	29.09	227	68092	0.85 ug/ml#	1
105)	Chrysene	29.17	228	108150	0.99 ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.47	149	172229	1.01 ug/ml	99
107)	Fenarimol	30.33	139	12861m	0.84 ug/ml	78
108)	cis-Permethrin	30.99	183	135573	0.88 ug/ml#	66
109)	trans-Permethrin	31.14	183	17469	0.12 ug/ml#	74
110)	Benzo(b)fluoranthene	31.87	252	84068	1.01 ug/ml#	77
111)	Benzo(k)fluoranthene	31.94	252	93327	1.25 ug/ml#	84
112)	Benzo(a)pyrene	32.64	252	77059	1.16 ug/ml	100
113)	Fluridone	32.61	328	10648m	1.88 ug/ml	98
115)	Indeno(1,2,3-cd)pyrene	35.51	276	64258m	1.25 ug/ml	67
116)	Dibenz(a,h)anthracene	35.60	278	52790m	1.44 ug/ml	51
117)	Benzo(g,h,i)perylene	36.26	276	57255m	1.32 ug/ml	32

(#) = qualifier out of range (m) = manual integration

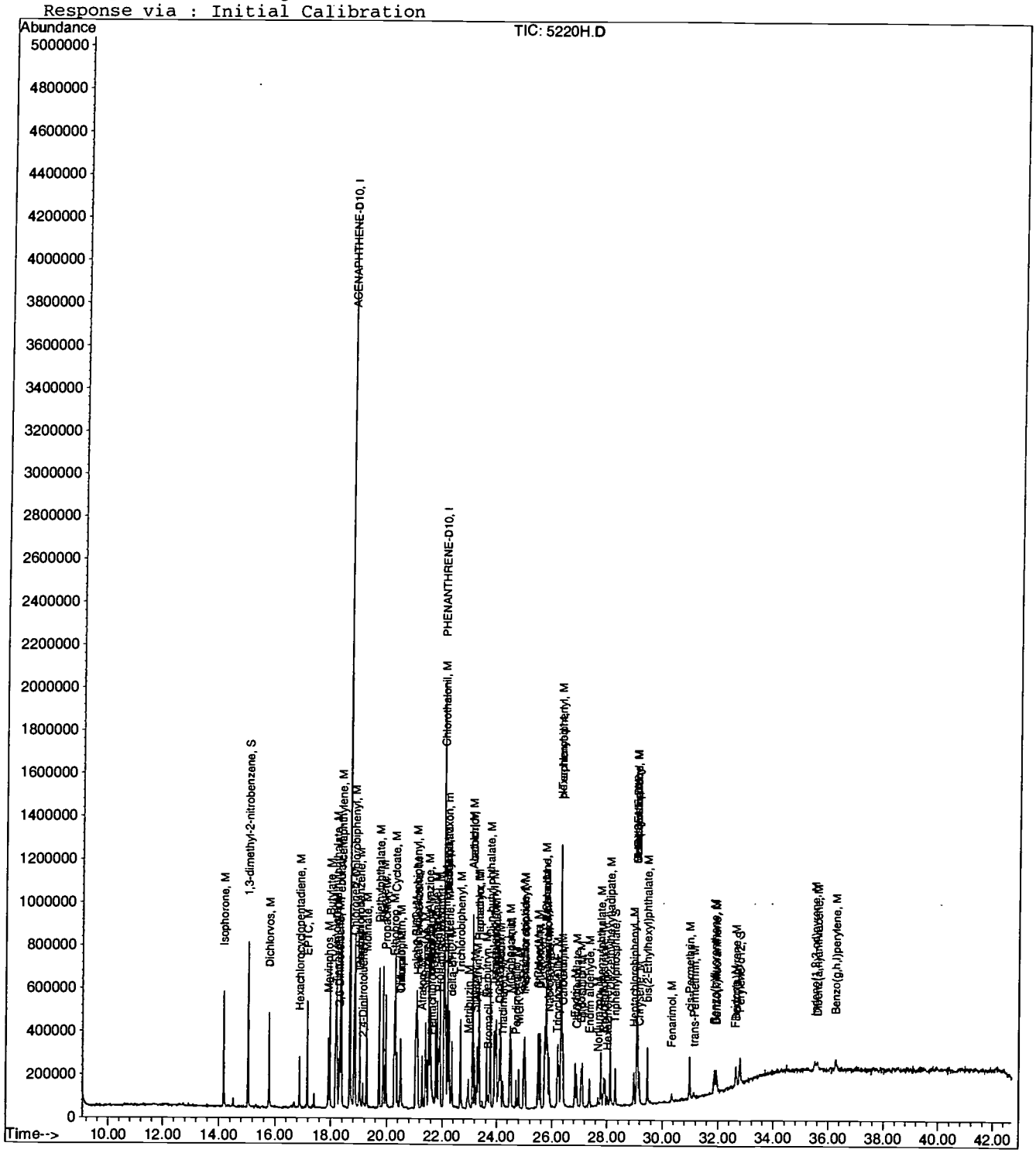
Quantitation Report

Data File : D:\HDATA~1\H100801\5220H.D
Acq On : 8 Oct 01 4:31 am
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5221H.D
Acq On : 8 Oct 01 5:23 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:46 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.68	164	1637117	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.07	188	1496566	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.10	240	469260	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.33	244	633066	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	271450	2.67 ug/ml	0.00
100) Triphenylphosphate	28.29	326	76925	3.15 ug/ml	0.00
114) Perylene-d12	32.77	264	138437	2.85 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.17	82	2394397	4.83 ug/ml	96
4) Dichlorvos	15.79	109	1620980	5.36 ug/ml#	68
5) Hexachlorocyclopentadiene	16.88	237	274950	5.14 ug/ml#	73
6) EPTC	17.16	128	939629	4.90 ug/ml#	22
7) Mevinphos	17.91	127	1444520	6.19 ug/ml#	57
8) Butylate	17.97	146	566230	4.64 ug/ml#	1
9) Vernolate	18.17	128	1093873	5.02 ug/ml#	41
10) Terrazole	18.23	211	214088	5.37 ug/ml#	85
11) Dimethylphthalate	18.21	163	2082484	4.95 ug/ml	100
12) Pebulate	18.33	128	1101703	5.13 ug/ml#	11
13) 2,6-Dinitrotoluene	18.30	165	390173	5.49 ug/ml#	79
14) Acenaphthylene	18.38	152	2999063	5.18 ug/ml	100
15) Chloroneb	18.82	191	669908	5.15 ug/ml	94
16) 2-Chlorobiphenyl	18.85	188	1428024	5.01 ug/ml	100
17) Pentachlorobenzene	19.03	248	346053	5.41 ug/ml#	50
18) Tebuthiuron	19.01	156	305308	1.75 ug/ml#	86
19) 2,4-Dinitrotoluene	19.14	165	344944	6.76 ug/ml#	63
20) Molinate	19.28	126	1351664	4.94 ug/ml#	76
21) Diethylphthalate	19.73	149	2232834	5.24 ug/ml	100
22) Fluorene	19.87	166	1782767	5.31 ug/ml	94
23) Propachlor	19.96	120	1204437	5.25 ug/ml#	3
24) Ethoprop	20.27	158	517113	5.69 ug/ml#	26
25) Cycloate	20.30	154	926005	5.01 ug/ml#	1
26) Chlorpropham	20.48	127	661305	5.30 ug/ml#	52
27) Trifluralin	20.51	306	283085	5.75 ug/ml	97
28) alpha-BHC	21.05	181	346549	4.92 ug/ml#	88
29) 2,3-Dichlorobiphenyl	21.08	222	798021	5.08 ug/ml#	51
31) Hexachlorobenzene	21.13	284	417965	4.60 ug/ml	93
32) Atraton	21.28	196	302514	6.28 ug/ml#	73
33) Prometon	21.40	210	329638	5.70 ug/ml#	80
34) Simazine	21.43	201	233658	5.20 ug/ml#	83
35) Atrazine	21.53	200	744807	11.00 ug/ml	100
36) beta-BHC	21.56	183	213721	4.46 ug/ml	87
37) Propazine	21.59	214	348978	5.10 ug/ml#	83
38) Pentachlorophenol	21.62	266	387537	20.09 ug/ml	97
39) g-BHC (Lindane)	21.76	181	269049	4.54 ug/ml#	84
40) Terbufos	21.82	231	383802	5.01 ug/ml#	1
41) Pronamide	21.88	173	653137	5.71 ug/ml#	88
42) Diazinon	21.92	137	451137	4.58 ug/ml#	89
43) Phenanthrene	22.12	178	1823697	5.09 ug/ml	99
44) Chlorothalonil	22.09	266	286191	5.07 ug/ml#	93
45) Disulfoton	22.19	88	1378827	5.01 ug/ml#	41
46) Anthracene	22.25	178	1676760	5.04 ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5221H.D
Acq On : 8 Oct 01 5:23 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:46 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Methyl paraoxon	22.19	109	330599	6.50	ug/ml#	46
48)	Terbacil	22.21	161	431203	6.38	ug/ml#	86
49)	delta-BHC	22.35	181	200052	4.38	ug/ml#	73
50)	Trichlorobiphenyl	22.68	256	477334	4.76	ug/ml	100
51)	Acetochlor	23.13	146	272270	4.85	ug/ml#	53
52)	Metribuzin	22.97	198	286555	5.99	ug/ml	100
53)	Alachlor	23.13	160	793377	9.84	ug/ml	87
54)	Simetryn	23.20	213	406903	6.02	ug/ml#	93
55)	Ametryn	23.28	227	329991	5.51	ug/ml#	78
56)	Heptachlor	23.35	100	543199	4.55	ug/ml#	34
57)	Prometryn	23.34	241	375325	5.37	ug/ml#	84
58)	Terbutryn	23.62	226	342946	5.59	ug/ml	96
59)	Di-n-butyl phthalate	23.75	149	3565865	5.03	ug/ml	100
60)	Bromacil	23.71	205	286400m	7.73	ug/ml	66
61)	Tetrachlorobiphenyl	23.89	292	305547	4.64	ug/ml	100
62)	Aldrin	24.14	66	397141	4.11	ug/ml#	63
63)	Metolachlor	23.96	162	1165326	5.23	ug/ml	92
64)	Chlorpyrifos	23.98	314	77654	5.17	ug/ml#	1
65)	DCPA	24.10	301	298669	5.11	ug/ml#	84
66)	Cyanazine	24.09	212	22504	5.44	ug/ml#	1
67)	Triadimefon	24.23	57	602505	5.99	ug/ml#	40
68)	Diphenamid	24.48	167	813064	5.53	ug/ml#	29
69)	MGK 264-A	24.52	111	210481	2.18	ug/ml#	71
70)	Pendimethalin	24.71	252	268809	6.36	ug/ml#	67
71)	MGK 264-B	24.80	164	195372	2.50	ug/ml#	68
72)	Heptachlor epoxide	24.98	81	244242	3.94	ug/ml#	66
73)	Pentachlorobiphenyl	25.01	326	210655	4.42	ug/ml	100
74)	g-Chlordane	25.50	375	168359	4.97	ug/ml	100
75)	Stirofos	25.50	109	484823	5.66	ug/ml#	57
76)	Butachlor	25.56	176	365383	5.49	ug/ml	100
77)	a-Chlordane	25.77	373	155981	4.57	ug/ml#	82
78)	Endosulfan I	25.79	195	99475	4.73	ug/ml#	87
79)	trans-Nonachlor	25.84	409	169010	4.14	ug/ml#	68
80)	Fenamiphos	25.82	303	70349	7.45	ug/ml#	51
81)	Napropamide	25.89	72	921848	5.31	ug/ml#	68
82)	Tricyclazole	26.15	189	68450m	10.11	ug/ml	66
83)	p,p'-DDE	26.20	246	290406	4.79	ug/ml	94
84)	Hexachlorobiphenyl	26.34	360	201122	4.68	ug/ml#	70
86)	Pyrene	25.77	202	1295573	5.27	ug/ml#	78
87)	Dieldrin	26.37	79	456600	4.31	ug/ml#	60
88)	Carboxin	26.39	143	512971	6.36	ug/ml#	49
89)	Endrin	26.85	81	115133	4.73	ug/ml#	54
90)	Chlorobenzilate	26.90	139	502735	7.60	ug/ml	92
91)	Endosulfan II	27.07	195	53490	5.32	ug/ml	88
92)	p,p'-DDD	27.12	235	424451	5.03	ug/ml#	89
93)	Endrin aldehyde	27.38	67	136373	4.34	ug/ml#	47
94)	Norflurazon	27.67	145	168989	6.98	ug/ml#	69
95)	Butylbenzylphthalate	27.78	149	784515	5.76	ug/ml	98
96)	Endosulfan sulfate	27.88	272	57084m	4.91	ug/ml	72
97)	p,p'-DDT	27.93	235	307080	5.51	ug/ml#	75
98)	Hexazinone	28.01	171	373052	7.17	ug/ml#	90
99)	Di(2-ethylhexyl)adipate	28.12	129	880338	6.02	ug/ml#	61
101)	Heptachlorobiphenyl	28.97	394	102006	4.85	ug/ml#	7
102)	Benz(a)anthracene	29.08	228	669448	4.98	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5221H.D
Acq On : 8 Oct 01 5:23 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:46 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
103) Octachlorobiphenyl	29.09	430	149528	4.78	ug/ml#	70
104) Methoxychlor	29.09	227	462214	5.68	ug/ml#	1
105) Chrysene	29.17	228	583790	5.25	ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.47	149	987138	5.68	ug/ml	97
107) Fenarimol	30.34	139	99049	6.34	ug/ml	96
108) cis-Permethrin	30.99	183	762640	4.83	ug/ml#	66
109) trans-Permethrin	31.13	183	115228	0.80	ug/ml#	79
110) Benzo(b)fluoranthene	31.87	252	418853	4.95	ug/ml#	78
111) Benzo(k)fluoranthene	31.94	252	430644	5.64	ug/ml#	82
112) Benzo(a)pyrene	32.64	252	377525	5.58	ug/ml	100
113) Fluridone	32.62	328	72103	12.48	ug/ml#	85
115) Indeno(1,2,3-cd)pyrene	35.50	276	328942m	6.26	ug/ml	70
116) Dibenz(a,h)anthracene	35.60	278	261352	7.00	ug/ml#	41
117) Benzo(g,h,i)perylene	36.27	276	270130	6.10	ug/ml#	33

(#) = qualifier out of range (m) = manual integration

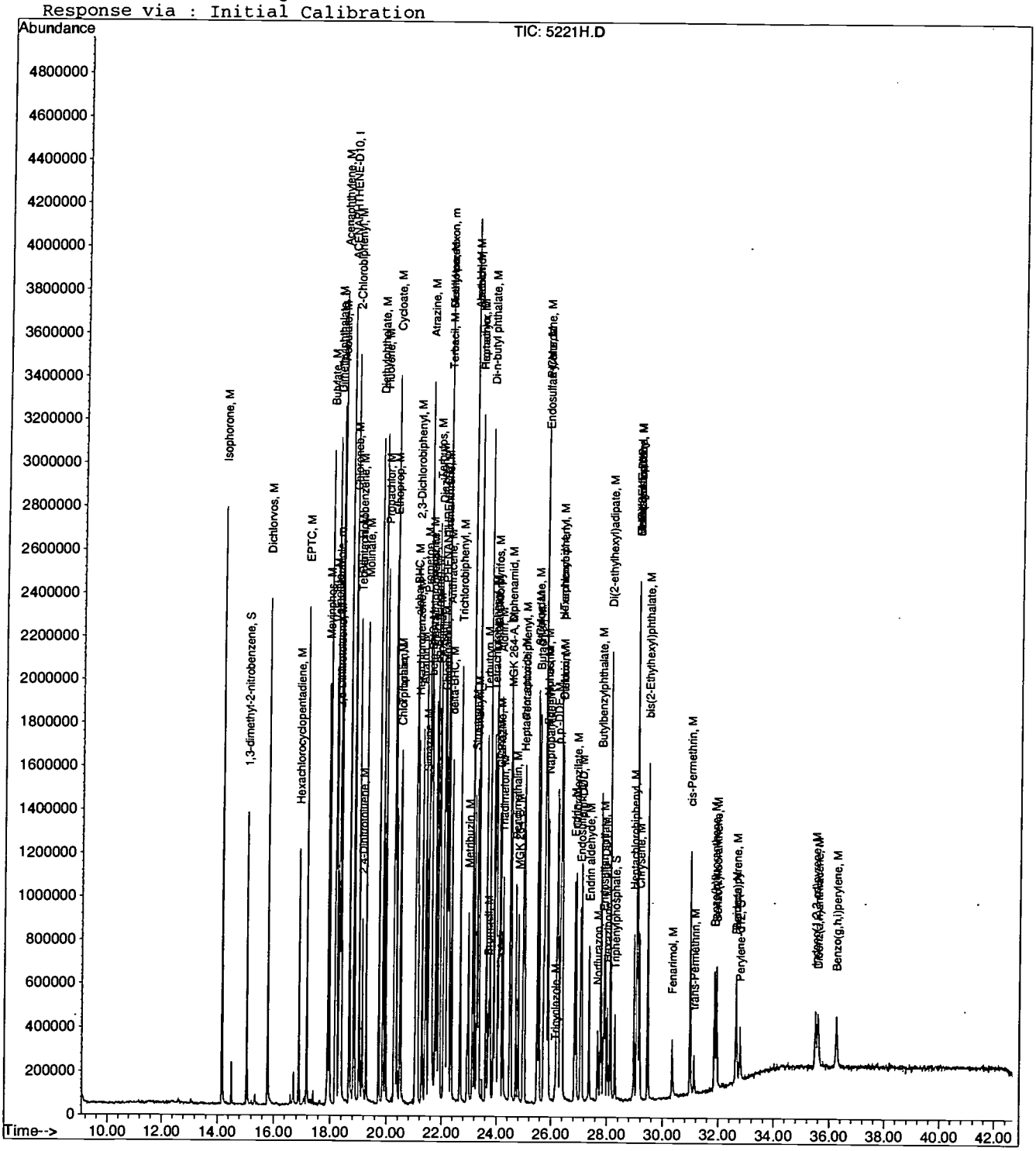
Quantitation Report

Data File : D:\HDATA~1\H100801\5221H.D
Acq On : 8 Oct 01 5:23 am
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:46 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5222H.D
Acq On : 8 Oct 01 6:14 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:45 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.68	164	1620166	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.06	188	1544241	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.09	240	531662	5.00	ug/ml	-0.01
118) p-Terphenyl-d14	26.33	244	665265	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.05	134	907518	9.04	ug/ml	0.00
100) Triphenylphosphate	28.30	326	326035	11.80	ug/ml	0.00
114) Perylene-d12	32.77	264	583298	10.59	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.17	82	4486835	9.15	ug/ml	97
4) Dichlorvos	15.78	109	3315468	11.08	ug/ml#	68
5) Hexachlorocyclopentadiene	16.88	237	558262	10.55	ug/ml#	74
6) EPTC	17.16	128	1815125	9.56	ug/ml#	17
7) Mevinphos	17.91	127	3016418	13.06	ug/ml#	57
8) Butylate	17.97	146	1102816	9.13	ug/ml#	1
9) Vernolate	18.17	128	2067699	9.59	ug/ml#	42
10) Terrazole	18.23	211	456372	11.57	ug/ml#	84
11) Dimethylphthalate	18.21	163	4041416	9.71	ug/ml	100
12) Pebulate	18.33	128	2068248	9.72	ug/ml#	10
13) 2,6-Dinitrotoluene	18.31	165	818384	11.63	ug/ml#	79
14) Acenaphthylene	18.38	152	5702055	9.95	ug/ml	100
15) Chloroneb	18.83	191	1252744	9.73	ug/ml	97
16) 2-Chlorobiphenyl	18.85	188	2599385	9.22	ug/ml	100
17) Pentachlorobenzene	19.03	248	626744	9.91	ug/ml#	49
18) Tebuthiuron	19.02	156	777239	4.50	ug/ml#	83
19) 2,4-Dinitrotoluene	19.14	165	772175	15.29	ug/ml#	67
20) Molinate	19.28	126	2689552	9.94	ug/ml#	76
21) Diethylphthalate	19.72	149	4225540	10.03	ug/ml	100
22) Fluorene	19.88	166	3392015	10.20	ug/ml	94
23) Propachlor	19.96	120	2429006	10.70	ug/ml#	3
24) Ethoprop	20.27	158	1036896	11.52	ug/ml#	24
25) Cycloate	20.31	154	1788378	9.78	ug/ml#	1
26) Chlorpropham	20.48	127	1374728	11.14	ug/ml#	50
27) Trifluralin	20.51	306	601553	12.34	ug/ml	98
28) alpha-BHC	21.05	181	633638	9.09	ug/ml#	89
29) 2,3-Dichlorobiphenyl	21.08	222	1523858	9.81	ug/ml#	51
31) Hexachlorobenzene	21.13	284	788812	8.42	ug/ml#	91
32) Atraton	21.29	196	652266	13.13	ug/ml#	73
33) Prometon	21.41	210	700801	11.74	ug/ml#	82
34) Simazine	21.45	201	477577	10.31	ug/ml#	77
35) Atrazine	21.54	200	1525187	21.83	ug/ml	100
36) beta-BHC	21.57	183	411942m	8.34	ug/ml	92
37) Propazine	21.60	214	722957	10.24	ug/ml#	84
38) Pentachlorophenol	21.62	266	1012941	50.88	ug/ml	98
39) g-BHC (Lindane)	21.77	181	538659	8.81	ug/ml#	83
40) Terbufos	21.83	231	798711	10.11	ug/ml#	1
41) Pronamide	21.89	173	1368846	11.60	ug/ml#	90
42) Diazinon	21.92	137	882646	8.69	ug/ml#	88
43) Phenanthrene	22.12	178	3673489	9.94	ug/ml	99
44) Chlorothalonil	22.10	266	606452	10.41	ug/ml#	89
45) Disulfoton	22.20	88	2669616	9.41	ug/ml#	42
46) Anthracene	22.25	178	3410868	9.94	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5222H.D
Acq On : 8 Oct 01 6:14 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:45 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.20	109	813887m	15.51 ug/ml	47
48) Terbacil	22.23	161	973532	13.95 ug/ml#	85
49) delta-BHC	22.36	181	406474	8.63 ug/ml#	79
50) Trichlorobiphenyl	22.68	256	956799	9.24 ug/ml	100
51) Acetochlor	23.14	146	539499	9.32 ug/ml#	54
52) Metribuzin	22.98	198	671972	13.61 ug/ml	100
53) Alachlor	23.14	160	1600692	19.25 ug/ml	86
54) Simetryn	23.21	213	890698	12.77 ug/ml#	91
55) Ametryn	23.29	227	729837	11.80 ug/ml#	79
56) Heptachlor	23.35	100	1009309	8.20 ug/ml#	35
57) Prometryn	23.34	241	755592	10.47 ug/ml#	82
58) Terbutryn	23.63	226	744685	11.77 ug/ml	95
59) Di-n-butyl phthalate	23.75	149	7015295	9.58 ug/ml	99
60) Bromacil	23.73	205	680159	17.79 ug/ml#	83
61) Tetrachlorobiphenyl	23.90	292	618546	9.11 ug/ml	100
62) Aldrin	24.14	66	733587	7.35 ug/ml#	65
63) Metolachlor	23.96	162	2393517	10.40 ug/ml	90
64) Chlorpyrifos	23.99	314	167276	10.80 ug/ml#	1
65) DCPA	24.10	301	611231	10.14 ug/ml#	85
66) Cyanazine	24.09	212	45001m	10.54 ug/ml	12
67) Triadimefon	24.23	57	1435069	13.82 ug/ml#	41
68) Diphenamid	24.49	167	1762453	11.61 ug/ml#	30
69) MGK 264-A	24.52	111	438931	4.41 ug/ml#	72
70) Pendimethalin	24.70	252	637659	14.62 ug/ml#	63
71) MGK 264-B	24.79	164	401851	4.99 ug/ml#	68
72) Heptachlor epoxide	24.98	81	478965	7.48 ug/ml#	67
73) Pentachlorobiphenyl	25.02	326	434535	8.84 ug/ml	100
74) g-Chlordane	25.50	375	318893	9.12 ug/ml	100
75) Stirofos	25.50	109	1147729	12.99 ug/ml#	59
76) Butachlor	25.56	176	794311	11.58 ug/ml	100
77) a-Chlordane	25.78	373	305152	8.66 ug/ml#	79
78) Endosulfan I	25.81	195	208363	9.60 ug/ml#	84
79) trans-Nonachlor	25.83	409	338500	8.05 ug/ml#	77
80) Fenamiphos	25.82	303	204185	20.95 ug/ml#	56
81) Napropamide	25.89	72	2026277	11.31 ug/ml#	69
82) Tricyclazole	26.15	189	201924	28.91 ug/ml#	79
83) p,p'-DDE	26.21	246	563266	9.01 ug/ml	97
84) Hexachlorobiphenyl	26.34	360	413197	9.31 ug/ml#	70
86) Pyrene	25.78	202	2829846	10.17 ug/ml#	80
87) Dieldrin	26.38	79	895658	7.46 ug/ml#	60
88) Carboxin	26.40	143	1207749	13.22 ug/ml#	48
89) Endrin	26.84	81	233065	8.45 ug/ml#	50
90) Chlorobenzilate	26.90	139	1156760	15.44 ug/ml	94
91) Endosulfan II	27.07	195	109910	9.65 ug/ml#	82
92) p,p'-DDD	27.11	235	932662	9.75 ug/ml#	92
93) Endrin aldehyde	27.37	67	308074	8.65 ug/ml#	46
94) Norflurazon	27.68	145	403687	14.72 ug/ml#	73
95) Butylbenzylphthalate	27.78	149	1763726	11.43 ug/ml	97
96) Endosulfan sulfate	27.88	272	55807m	4.24 ug/ml	17
97) p,p'-DDT	27.93	235	702179	11.12 ug/ml#	81
98) Hexazinone	28.01	171	1003849	17.03 ug/ml#	91
99) Di(2-ethylhexyl)adipate	28.12	129	1941416	11.71 ug/ml#	60
101) Heptachlorobiphenyl	28.97	394	237130	9.96 ug/ml#	3
102) Benz(a)anthracene	29.07	228	1525954	10.02 ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5222H.D
Acq On : 8 Oct 01 6:14 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:45 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
103) Octachlorobiphenyl	29.08	430	299287	8.45	ug/ml#	75
104) Methoxychlor	29.09	227	1119893	12.15	ug/ml#	1
105) Chrysene	29.16	228	1285954	10.20	ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.46	149	2189270	11.12	ug/ml	99
107) Fenarimol	30.34	139	251726	14.22	ug/ml	90
108) cis-Permethrin	30.98	183	1787227	9.99	ug/ml#	67
109) trans-Permethrin	31.13	183	269342	1.66	ug/ml#	83
110) Benzo(b)fluoranthene	31.86	252	951363	9.92	ug/ml#	77
111) Benzo(k)fluoranthene	31.93	252	969918	11.22	ug/ml#	84
112) Benzo(a)pyrene	32.63	252	854869	11.15	ug/ml	100
113) Fluridone	32.61	328	219718	33.56	ug/ml#	82
115) Indeno(1,2,3-cd)pyrene	35.50	276	776680m	13.05	ug/ml	63
116) Dibenz(a,h)anthracene	35.60	278	602740	14.25	ug/ml#	45
117) Benzo(g,h,i)perylene	36.27	276	642929	12.81	ug/ml#	31

(#) = qualifier out of range (m) = manual integration

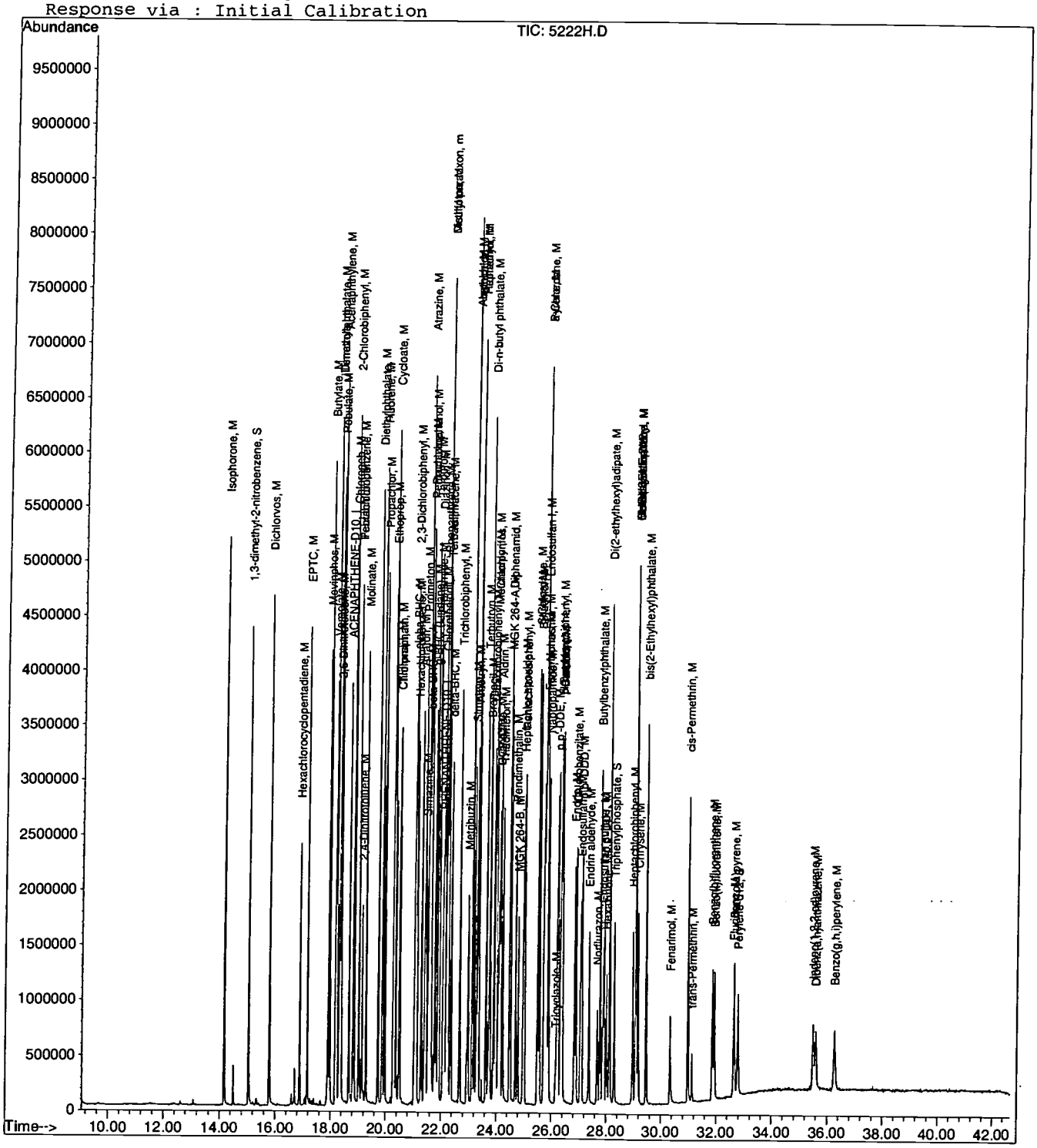
Quantitation Report

Data File : D:\HDATA~1\H100801\5222H.D
Acq On : 8 Oct 01 6:14 am
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:45 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H100801\5223H.D
Acq On : 8 Oct 01 7:05 am
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 18:25 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.67	164	1647158	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.06	188	1241548	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.09	240	392771	5.00 ug/ml	-0.02
118) p-Terphenyl-d14	26.32	244	526363	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	1951	0.02 ug/ml	0.00
100) Triphenylphosphate	28.31	326	85	0.00 ug/ml	0.00
114) Perylene-d12	32.78	264	1454	0.04 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	13.88	82	1190	0.00 ug/ml	97
4) Dichlorvos	15.80	109	1804	0.01 ug/ml#	38
5) Hexachlorocyclopentadiene	16.90	237	325	0.01 ug/ml#	1
6) EPTC	17.16	128	6313	0.03 ug/ml#	1
7) Mevinphos	17.95	127	220	0.00 ug/ml#	51
8) Butylate	17.97	146	3174	0.03 ug/ml#	1
9) Vernolate	18.18	128	5325	0.02 ug/ml#	18
10) Terrazole	18.22	211	802	0.02 ug/ml#	72
11) Dimethylphthalate	18.21	163	8823	0.02 ug/ml	100
12) Pebulate	18.33	128	3643	0.02 ug/ml#	23
13) 2,6-Dinitrotoluene	18.67	165	210171	2.94 ug/ml#	35
14) Acenaphthylene	18.37	152	13247	0.02 ug/ml	100
15) Chloroneb	18.82	191	2409	0.02 ug/ml#	63
16) 2-Chlorobiphenyl	18.84	188	5843	0.02 ug/ml	100
17) Pentachlorobenzene	19.02	248	772	0.01 ug/ml#	59
18) Tebuthiuron	18.67	156	77390	0.44 ug/ml#	63
19) 2,4-Dinitrotoluene	18.67	165	190049	3.70 ug/ml#	39
20) Molinate	19.27	126	3902	0.01 ug/ml#	12
21) Diethylphthalate	19.73	149	10074	0.02 ug/ml	100
22) Fluorene	20.19	166	358	0.00 ug/ml	93
23) Propachlor	20.13	120	565	0.00 ug/ml	93
24) Ethoprop	20.24	158	384	0.00 ug/ml#	1
25) Cycloate	20.29	154	3522	0.02 ug/ml#	1
26) Chlorpropham	20.48	127	1435	0.01 ug/ml#	26
27) Trifluralin	20.52	306	105	0.00 ug/ml#	1
28) alpha-BHC	21.05	181	1439	0.02 ug/ml#	87
29) 2,3-Dichlorobiphenyl	21.15	222	228	0.00 ug/ml	87
31) Hexachlorobenzene	21.12	284	2507	0.03 ug/ml	90
32) Atraton	21.29	196	946	0.02 ug/ml#	59
33) Prometon	21.40	210	902	0.02 ug/ml#	44
34) Simazine	21.45	201	409	0.01 ug/ml#	8
35) Atrazine	21.50	200	2210	0.04 ug/ml	100
36) beta-BHC	21.54	183	382	0.01 ug/ml#	1
37) Propazine	21.57	214	1086	0.02 ug/ml#	21
38) Pentachlorophenol	22.03	266	188	0.01 ug/ml	93
39) g-BHC (Lindane)	21.49	181	194	0.00 ug/ml	87
40) Terbufos	21.82	231	851	0.01 ug/ml#	1
41) Pronamide	21.88	173	1881	0.02 ug/ml#	55
42) Diazinon	21.91	137	822	0.01 ug/ml#	45
43) Phenanthrene	22.06	178	1122	0.00 ug/ml	94
44) Chlorothalonil	22.11	266	154	0.00 ug/ml#	1
45) Disulfoton	22.18	88	3101	0.01 ug/ml#	76
46) Anthracene	22.06	178	1122	0.00 ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H100801\5223H.D
Acq On : 8 Oct 01 7:05 am
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 18:25 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47)	Methyl paraoxon	22.20	109	642	0.02 ug/ml#	1
48)	Terbacil	22.06	161	17374	0.31 ug/ml#	1
49)	delta-BHC	22.35	181	693	0.02 ug/ml#	33
50)	Trichlorobiphenyl	22.67	256	1522	0.02 ug/ml	100
51)	Acetochlor	23.14	146	475	0.01 ug/ml#	24
52)	Metribuzin	22.98	198	154	0.00 ug/ml	100
53)	Alachlor	23.40	160	274	0.00 ug/ml	96
54)	Simetryn	23.21	213	320	0.01 ug/ml#	1
55)	Ametryn	23.27	227	434	0.01 ug/ml#	63
56)	Heptachlor	23.34	100	5242	0.05 ug/ml#	17
57)	Prometryn	23.32	241	433	0.01 ug/ml#	93
58)	Terbutryn	23.62	226	156	0.00 ug/ml#	1
59)	Di-n-butyl phthalate	23.98	149	779	0.00 ug/ml	95
60)	Bromacil	23.67	205	213	0.01 ug/ml#	1
61)	Tetrachlorobiphenyl	23.90	292	1469	0.03 ug/ml	100
62)	Aldrin	23.70	66	614	0.01 ug/ml	89
63)	Metolachlor	23.95	162	4177	0.02 ug/ml	93
64)	Chlorpyrifos	23.98	314	99	0.01 ug/ml#	1
65)	DCPA	24.10	301	269	0.01 ug/ml#	1
66)	Cyanazine	24.08	212	107	0.03 ug/ml#	1
67)	Triadimefon	24.24	57	709	0.01 ug/ml#	16
68)	Diphenamid	24.48	167	1087	0.01 ug/ml#	73
69)	MGK 264-A	24.55	111	618	0.01 ug/ml#	17
70)	Pendimethalin	24.70	252	303	0.01 ug/ml#	43
71)	MGK 264-B	24.80	164	266	0.00 ug/ml#	1
72)	Heptachlor epoxide	25.00	81	819	0.02 ug/ml#	34
73)	Pentachlorobiphenyl	25.01	326	1093	0.03 ug/ml	100
74)	g-Chlordane	25.47	375	817	0.03 ug/ml	100
75)	Stirofos	25.50	109	321	0.00 ug/ml#	74
76)	Butachlor	25.54	176	627	0.01 ug/ml	100
77)	a-Chlordane	26.02	373	94	0.00 ug/ml	98
78)	Endosulfan I	25.78	195	218	0.01 ug/ml#	1
79)	trans-Nonachlor	25.84	409	512	0.02 ug/ml#	1
80)	Fenamiphos	25.85	303	84	0.01 ug/ml#	1
81)	Napropamide	25.90	72	1472	0.01 ug/ml#	1
82)	Tricyclazole	26.15	189	170	0.03 ug/ml#	1
83)	p,p'-DDE	26.19	246	1544	0.03 ug/ml#	57
84)	Hexachlorobiphenyl	26.35	360	736	0.02 ug/ml#	31
86)	Pyrene	25.78	202	4002	0.02 ug/ml#	11
87)	Dieldrin	26.38	79	2180	0.02 ug/ml#	50
88)	Carboxin	26.39	143	858	0.01 ug/ml#	39
89)	Endrin	26.88	81	1201	0.06 ug/ml#	1
90)	Chlorobenzilate	26.93	139	958	0.02 ug/ml#	30
91)	Endosulfan II	27.08	195	260	0.03 ug/ml#	1
92)	p,p'-DDD	27.12	235	458	0.01 ug/ml#	1
93)	Endrin aldehyde	27.36	67	602	0.02 ug/ml#	2
94)	Norflurazon	27.67	145	123	0.01 ug/ml#	1
95)	Butylbenzylphthalate	27.76	149	1517	0.01 ug/ml#	1
96)	Endosulfan sulfate	27.87	272	399	0.04 ug/ml#	20
97)	p,p'-DDT	27.95	235	34	0.00 ug/ml#	1
98)	Hexazinone	28.05	171	177	0.00 ug/ml#	1
99)	Di(2-ethylhexyl)adipate	28.14	129	2330	0.02 ug/ml#	31
101)	Heptachlorobiphenyl	28.98	394	788	0.04 ug/ml#	72
102)	Benz(a)anthracene	29.08	228	2746	0.02 ug/ml#	1

(#) = qualifier out of range (m) = manual integration
5223H.D DRINKWBP.M Mon Oct 08 20:17:35 2001

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H100801\5223H.D
Acq On : 8 Oct 01 7:05 am
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 18:25 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.12	430	93	0.00 ug/ml#	1
104) Methoxychlor	29.10	227	1436	0.02 ug/ml#	1
105) Chrysene	29.17	228	1214	0.01 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.46	149	5182	0.04 ug/ml#	66
107) Fenarimol	30.38	139	216	0.02 ug/ml#	27
108) cis-Permethrin	30.98	183	1217	0.01 ug/ml#	18
109) trans-Permethrin	31.14	183	187	0.00 ug/ml#	1
110) Benzo(b)fluoranthene	31.86	252	1471	0.02 ug/ml#	12
111) Benzo(k)fluoranthene	31.94	252	1991	0.03 ug/ml#	61
112) Benzo(a)pyrene	32.64	252	1092	0.02 ug/ml	100
113) Fluridone	32.64	328	284	0.06 ug/ml#	81
115) Indeno(1,2,3-cd)pyrene	35.51	276	440	0.01 ug/ml#	1
116) Dibenz(a,h)anthracene	35.61	278	804	0.03 ug/ml#	45
117) Benzo(g,h,i)perylene	36.28	276	974	0.03 ug/ml#	1

(#) = qualifier out of range (m) = manual integration
5223H.D DRINKWBP.M Mon Oct 08 20:17:36 2001

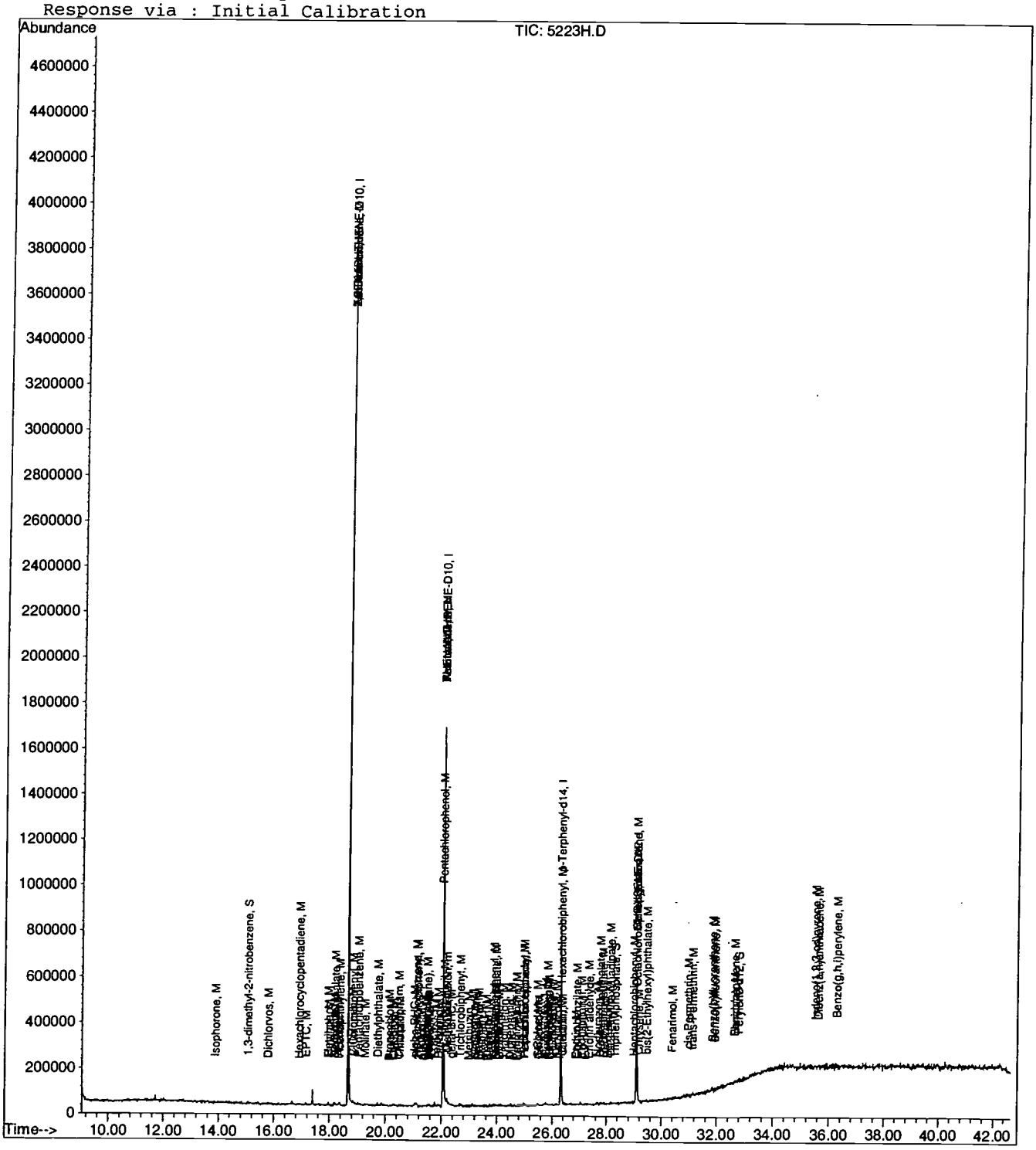
Quantitation Report

Data File : D:\HDATA~1\H100801\5223H.D
Acq On : 8 Oct 01 7:05 am
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 18:25 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWBP.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed May 09 10:46:33 2001
Response via : Initial Calibration



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: 5216H.D DFTPP Injection Date: 10/08/01

Instrument ID: #8 DFTPP Injection Time: 01:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	26.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	42.7
70	Less than 2.0% of mass 69	0.5 (1.2)1
127	25.0 - 75.0% of mass 198	52.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	9.4
442	40.0 - 110.0% of mass 198	76.6
443	15.0 - 24.0% of mass 442	14.5 (18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD 2.0	SSTD 2.0	5217H.D	10/08/01	01:58
02	SSTD 0.1	SSTD 0.1	5218H.D	10/08/01	02:49
03	SSTD 0.5	SSTD 0.5	5219H.D	10/08/01	03:40
04	SSTD 1.0	SSTD 1.0	5220H.D	10/08/01	04:31
05	SSTD 5.0	SSTD 5.0	5221H.D	10/08/01	05:23
06	SSTD 10	SSTD 10	5222H.D	10/08/01	06:14
07	SSTD 0.02	SSTD 0.02	5223H.D	10/08/01	07:05
21283442 08	SBLK2300-755	SBLK2300-755	5224H.D	10/08/01	07:56
L1283443 09	LCS #003	LCS #003	5225H.D	10/08/01	08:48
10	A567128	A567128	5226H.D	10/08/01	09:39
11	A567128	A567128	5227H.D	10/08/01	10:30
12	A568113	A568113	5228H.D	10/08/01	11:22
13	A568114	A568114	5229H.D	10/08/01	12:13
14	A568309	A568309	5230H.D	10/08/01	13:05

✓ 10-10-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 5217H.D Date Analyzed: 10/08/01

Instrument ID: #8 Time Analyzed: 01:58

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	1815253	18.68	1594727	22.07	396202	29.11
	UPPER LIMIT	3630506	19.18	3189454	22.57	792404	29.61
	LOWER LIMIT	907627	18.18	797364	21.57	198101	28.61
	EPA SAMPLE NO.						
01	SBLK2300-75	1071395 *	18.67	974630 *	22.05	230374 *	29.09
02	LCS #003	1101175 *	18.67	1061335 *	22.06	284814	29.08
03	A567128	786859 *	18.67	733512 *	22.05	184205 *	29.09
04	A567128	840392 *	18.67	790405 *	22.06	200839 *	29.08
05	A568113	901896 *	18.68	827244 *	22.06	276954 *	29.10
06	A568114	1057641 *	18.67	977712 *	22.05	233406 *	29.09
07	A568309	1256494 *	18.67	1178463	22.05	269295 *	29.08

IS1 = ACENAPHTHENE-D10
IS2 = PHENANTHRENE-D10
IS3 = CHRYSENE-D12
IS4 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Date Injected: 08-Oct-01 Instrument: #8

	EPA SAMPLE NO.	S1 DMN #	S2 TPP #	S3 PED #	TOT OUT
01	SBLK2300-755	92	104	94	0
02	LCS #003	85	108	102	0
03	A567128	92	82	102	0
04	A567128	91	76	98	0
05	A568113	97	113	116	0
06	A568114	90	139*	106	1
07	A568309	92	128	91	0

QC LIMITS

S1	DMN	=	1,3-dimethyl-2-nitrobenzene	(50-130)
S2	TPP	=	Triphenylphosphate	(50-130)
S3	PED	=	Perylene-d12	(50-130)

✓ 10-10-1

Column to be used to flag recovery values

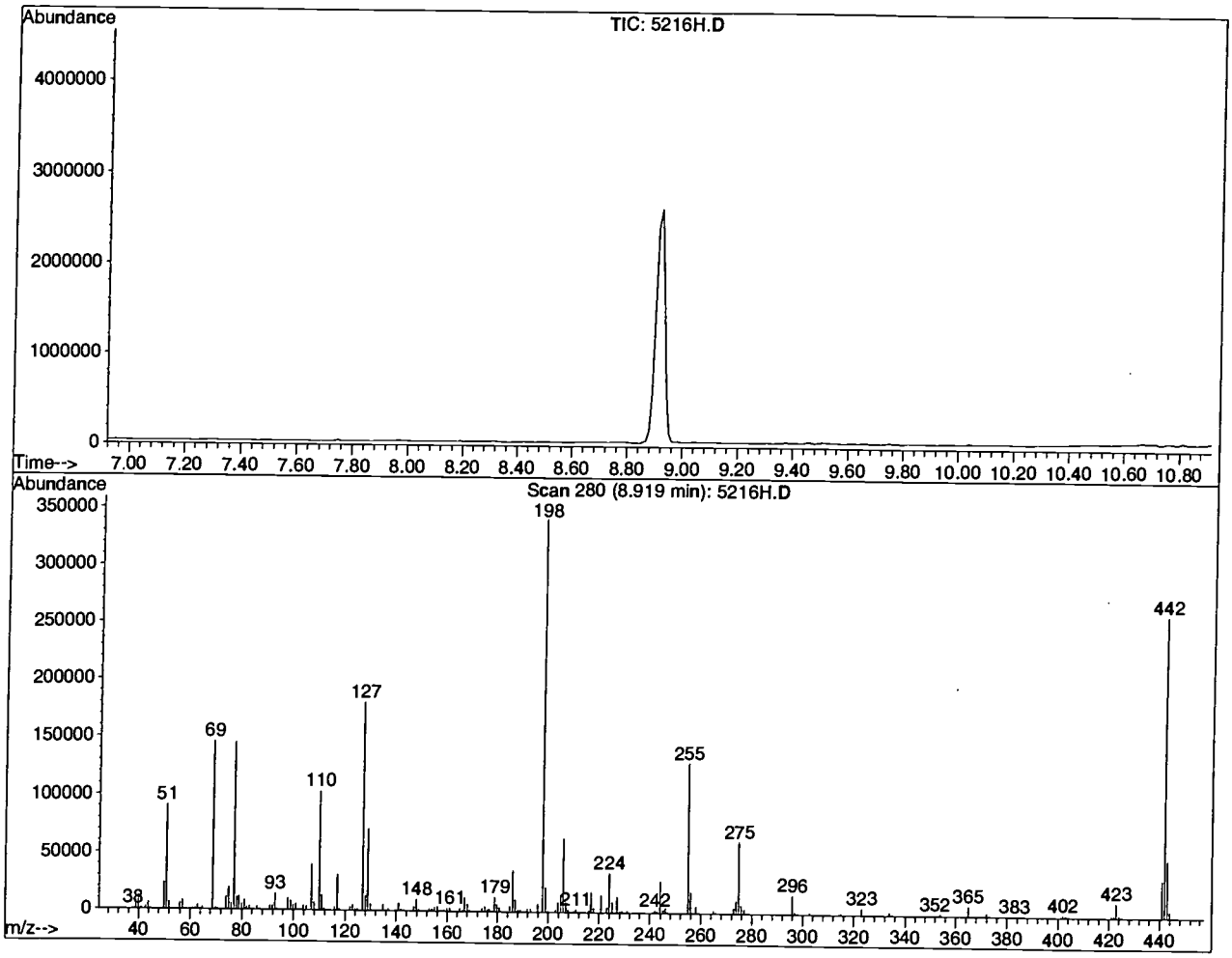
* Values outside of contract required QC limits

D Surrogate diluted out

DFTPP

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
MS Integration Params: rteint.p
Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00



Spectrum Information: Scan 280

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.6	90880	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	145920	PASS
70	69	0.00	2	1.2	1723	PASS
127	198	10	80	52.9	180736	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	341504	PASS
199	198	5	9	6.4	21688	PASS
275	198	10	60	18.3	62424	PASS
365	198	1	100	2.6	8858	PASS
441	443	0.01	100	64.9	32136	PASS
442	198	50	150	76.6	261504	PASS
443	442	15	24	18.9	49544	PASS

✓ MS 10/10/1

5216H.D DFTPPI.M Wed Oct 10 00:30:04 2001

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.80	889	52.80	1429	66.70	1303	79.90	4850
38.90	7295	54.00	648	66.90	1332	80.90	8883
39.90	12828	54.90	1825	68.90	145920	81.80	2677
41.00	1454	55.90	5763	70.10	1723	82.90	3501
41.70	519	56.90	8223	70.80	956	83.90	923
42.90	2646	60.00	567	73.90	11422	84.80	1239
43.90	6296	60.80	1116	74.90	19656	85.90	3349
44.70	803	61.90	1709	75.90	5523	86.80	1109
49.90	23784	62.90	4513	76.90	145088	87.80	581
50.90	90880	63.80	945	77.90	11250	90.80	3650
51.90	6642	64.90	2376	78.80	11937	91.80	3702

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.90	14307	103.80	4252	118.80	857	133.00	939
93.80	1312	104.90	3684	121.90	2959	134.00	1044
94.90	1140	106.90	40360	122.90	5167	134.80	5837
95.90	991	107.90	7175	123.90	1614	135.90	1802
96.80	1200	109.90	103512	124.80	1611	136.90	2277
97.90	10591	110.80	13306	126.90	180736	138.60	517
98.90	8296	111.80	1918	127.90	13184	139.90	1204
99.90	4410	112.80	818	128.80	71168	140.90	7120
100.90	5629	115.80	3136	129.80	5757	141.80	1600
101.90	642	116.90	31560	131.00	1349	142.90	1385
102.90	1568	117.70	1524	131.90	1017	144.10	807

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.10	738	156.00	4103	168.80	1110	179.80	6538
145.90	858	156.90	1269	170.00	729	180.90	3886
146.80	3999	157.80	1156	171.10	537	181.50	633
147.80	10325	158.80	1456	171.80	1236	182.90	1087
148.80	1601	159.90	2373	172.70	1276	183.90	584
149.70	622	160.90	3128	173.80	3088	184.80	5356
151.20	1440	162.00	826	175.00	4750	185.90	36136
152.10	755	164.90	3015	176.00	1946	186.90	10677
152.90	2443	165.90	1182	176.80	2678	188.00	1607
153.90	2175	166.90	12202	177.90	1434	188.90	2283
154.90	3396	167.90	6715	178.90	12808	191.00	1091

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.80	3278	205.90	64120	222.90	4719	239.80	546
192.90	3122	206.90	9378	223.90	34496	241.00	743
193.70	572	207.80	2528	225.00	9630	241.90	2505
195.90	7439	209.00	747	226.90	14258	242.80	1978
197.80	341504	209.90	1342	228.00	1469	243.90	27888
198.90	21688	210.80	2660	228.90	2000	245.00	2783
199.90	1061	216.00	2027	230.20	546	246.00	4350
201.50	949	216.90	17784	230.90	1845	246.80	710
202.90	2491	217.90	3814	234.00	1094	247.10	726
203.90	8868	219.70	592	235.00	1056	248.90	546
204.90	15854	220.90	15562	236.80	1107	249.90	642

Scan 280 (8.919 min): 5216H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.00	634	275.85	7278	324.05	513	372.95	696
254.90	130008	276.85	4210	326.85	1049	382.95	999
255.90	18440	284.95	1058	333.85	2964	389.65	563
256.90	1596	288.75	665	334.95	664	401.85	1758
257.90	6141	292.85	1303	345.85	693	402.75	1396
258.90	1354	295.85	16576	351.85	1446	403.15	1227
265.00	2667	296.85	2296	352.65	1142	403.85	684
265.90	646	302.75	1852	353.95	1894	420.95	1800
272.85	5198	314.85	1239	364.85	8858	421.85	1609

273.85	11131	315.85	720	366.05	1066	422.85	12707
274.85	62424	322.95	6130	371.95	2987	423.95	2126

Scan 280 (8.919 min): 5216H.D
DFTPP

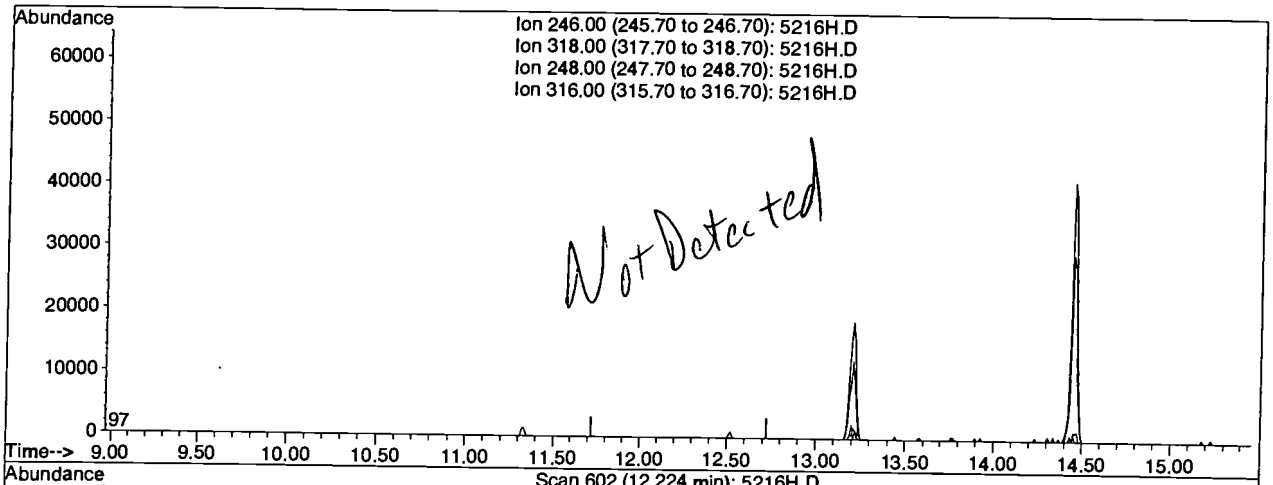
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.95	849						
440.95	32136						
441.95	261504						
442.95	49544						
443.95	5392						

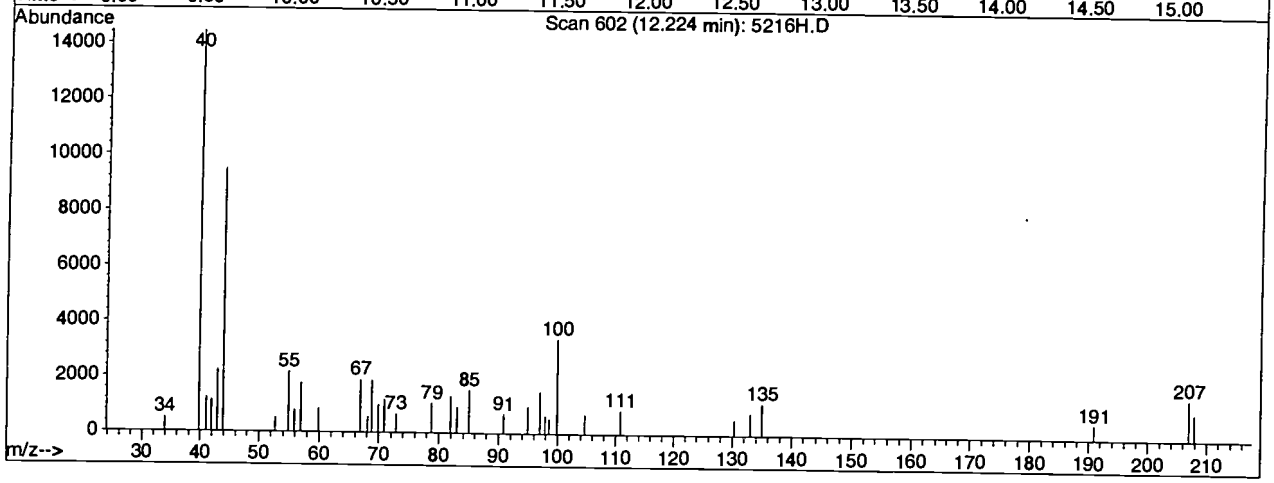
Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5216H.D

(2) p,p'-DDE (M)

12.22min 0.00ug/ml d

response 0

Ion	Exp%	Act%
246.00	100	0.00
318.00	64.70	0.00#
248.00	61.60	0.00#
316.00	51.20	0.00#

5216H.D DFTPPI.M Wed Oct 10 00:30:58 2001

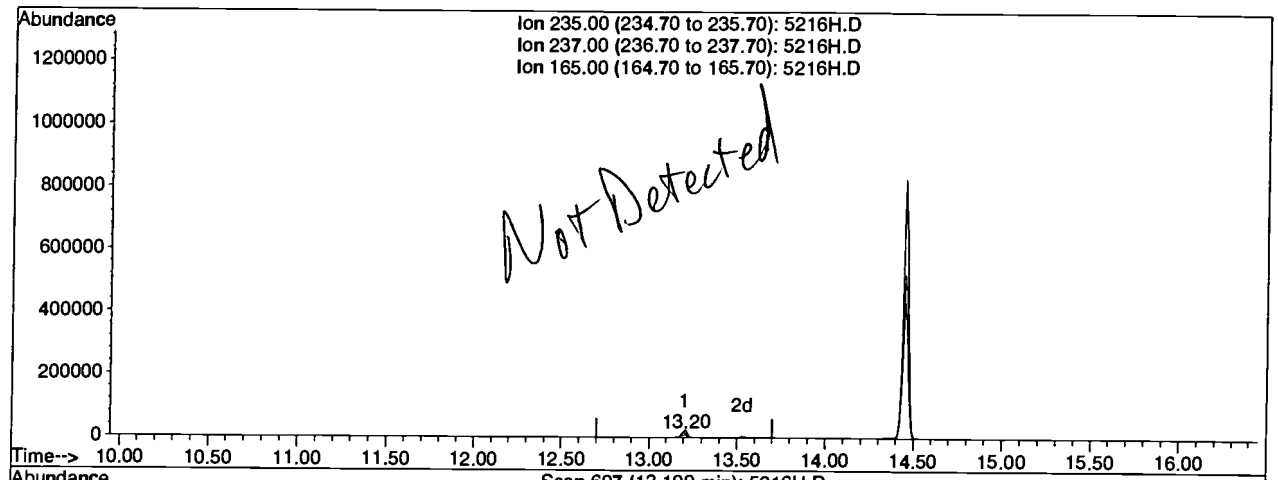
JAS 10-10-1

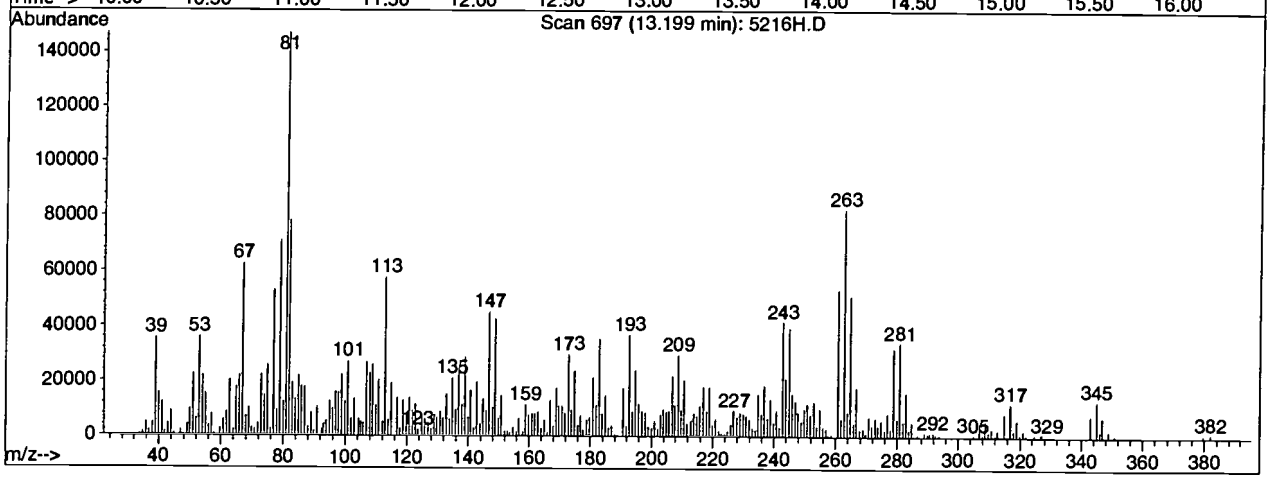
Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5216H.D

(4) p,p'-DDD (M)

13.20min 0.14ug/ml

response 37094

Ion	Exp%	Act%
235.00	100	100
237.00	66.60	148.09#
165.00	48.60	57.88
0.00	0.00	0.00

5216H.D DFTPPI.M Wed Oct 10 00:31:31 2001

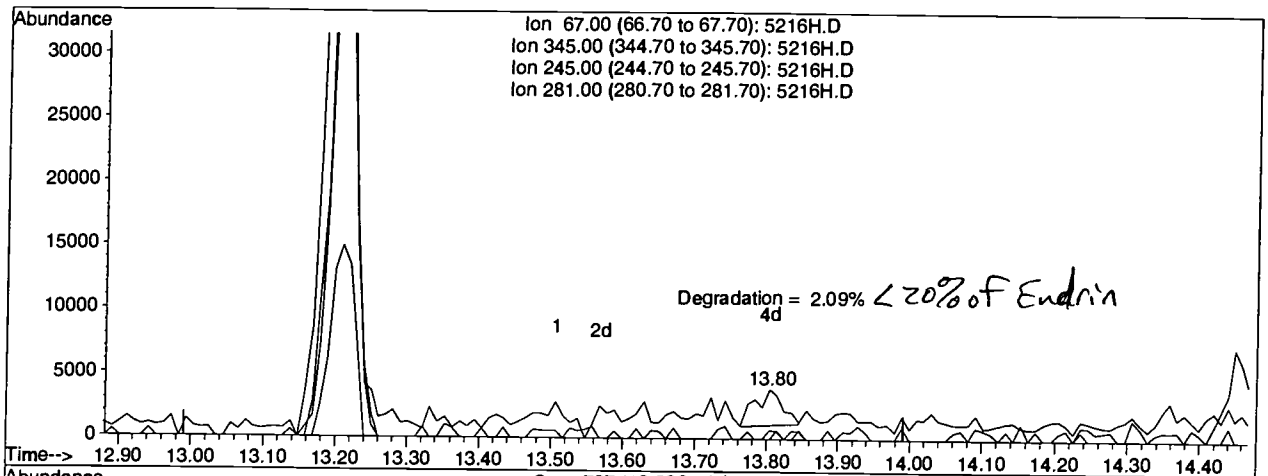
LAS 10/10/1

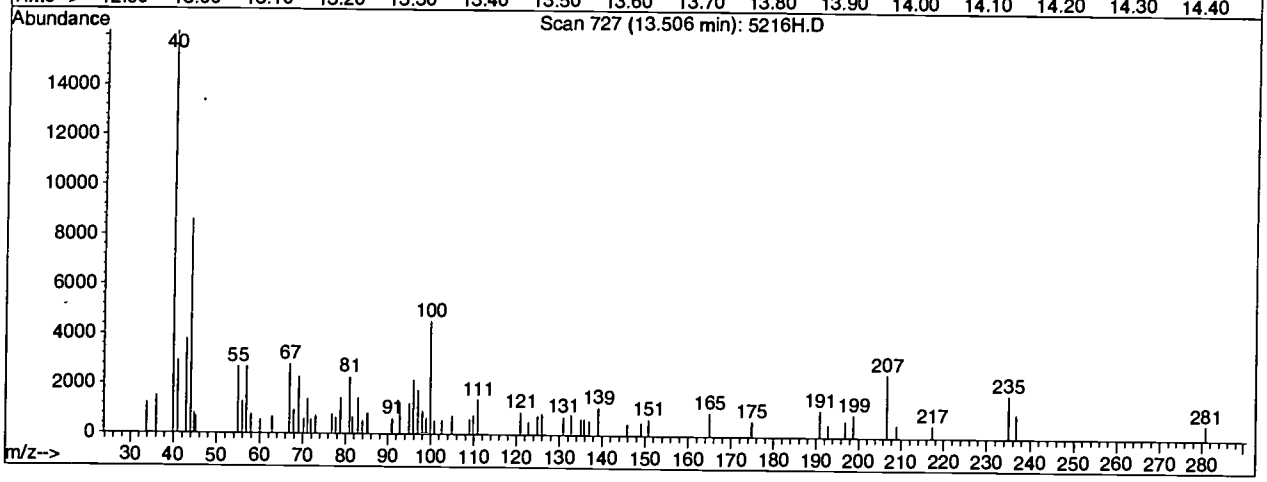
Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





TIC: 5216H.D

(5) Endrin aldehyde (M)

13.51min 0.25ug/ml

response 9644

Ion	Exp%	Act%
67.00	100	100
345.00	63.90	0.00#
245.00	49.00	0.00#
281.00	46.90	0.00#

5216H.D DFTPPI.M Wed Oct 10 00:32:21 2001

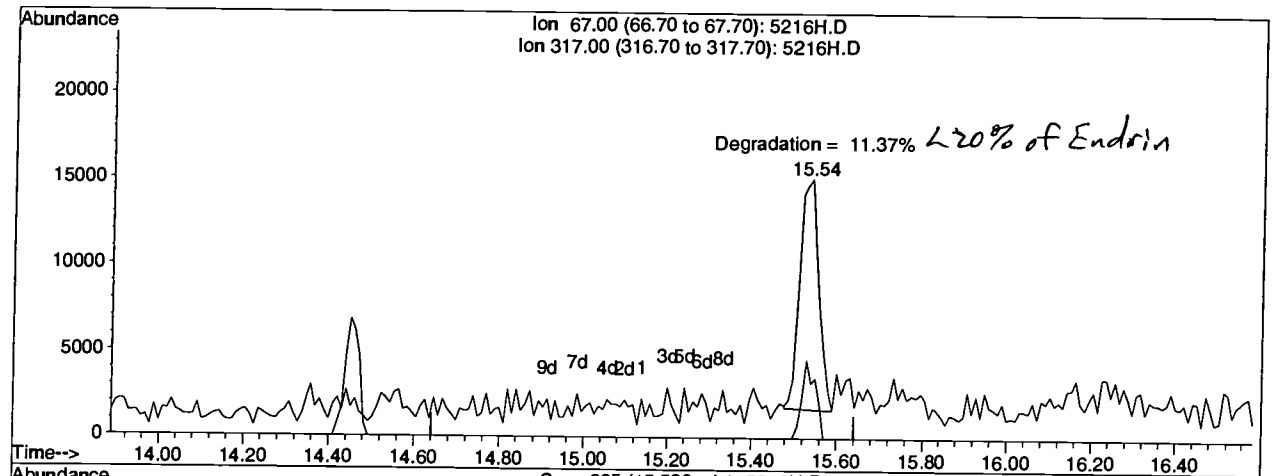
✓ HS 10-10-1

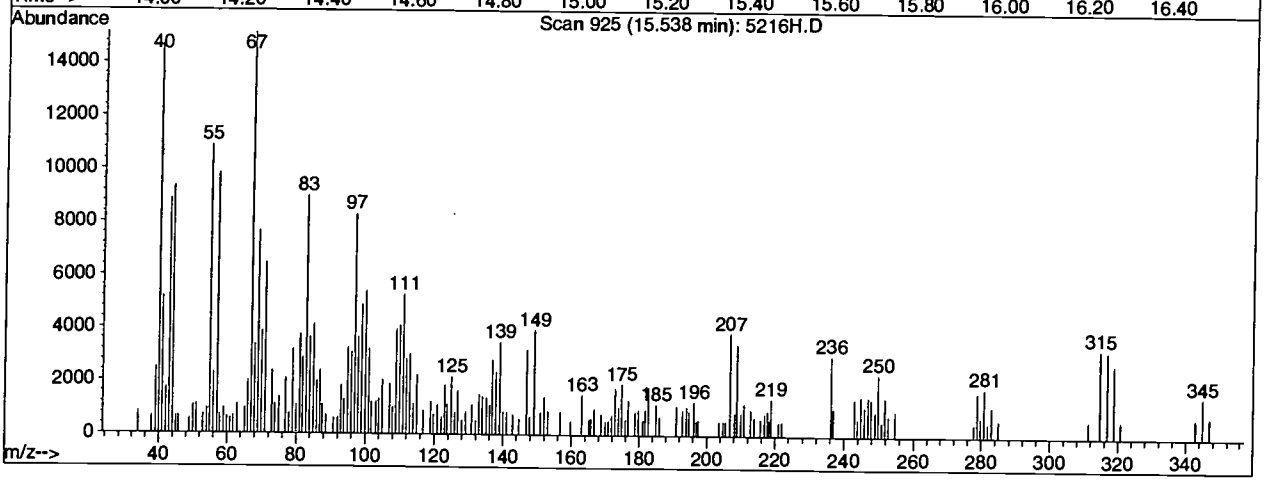
Quantitation Report

Data File : D:\HDATA~1\H100801\5216H.D
Acq On : 8 Oct 01 1:24 am
Sample : DFTPP
Misc :
Quant Time: Oct 8 1:52 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Single Level Calibration





TIC: 5216H.D

(7) Endrin Ketone

15.54min 0.00ug/ml m

response 41716

Ion	Exp%	Act%
67.00	100	100
317.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

✓ LMS 10-10-1

5216H.D DFTPPI.M Wed Oct 10 00:33:05 2001

R420950

Heritage Environmental Services
QC Report

Q1289813 1

QC Type	CAL01	Duplicate Sample ID		Data File	5217H.D
Date Entered	10Oct2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	08Oct2001 01:58:00	Method	Matrix	Units	

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE	1.4235					5.2
976	DICHLORVOS	0.9228					11.7
399	HEXACHLOROCYCLOPENTADIENE	0.1461					20
346	EPTC (ERADICANE)	0.5831					6.5
1007	MEVINPHOS	0.7759					20.4
1022	BUTYLATE (SUTAN PLUS)	0.3561					7
766	VERNOLATE	0.6625					4.6
2258	ETRIDIAZOLE	0.1151					24.1
310	DIMETHYLPHTHALATE	1.2852					3.4
571	PEBULATE (TILLAM)	0.6748					5.1
50	2,6-DINITROTOLUENE	0.2136					17.2
98	ACENAPHTHYLENE	1.8479					4.7
2257	CHLORNEB	0.4029					3.2
53	(1) 2-CHLOROBIPHENYL	0.8810					6.5
573	PENTACHLOROBENZENE	0.2091					5.5
821	TEBUTHIURON	0.1490					43.9
48	2,4-DINITROTOLUENE	0.1776					27.1
482	MOLINATE	0.8186					5.1
306	DIETHYLPHTHALATE	1.3084					7
366	FLUORENE	1.0498					6
621	PROPACHLOR	0.6934					10
1000	ETHOPROP	0.2930					12.9
996	CYCLOATE	0.5658					8.3
978	CHLOROPROPHAM	0.3663					15.9
753	TRIFLURALIN	0.1471					24.6
117	ALPHA-BHC	0.2047					8.8
952	(5) 2,3-DICHLOROBIPHENYL	0.4907					7
397	HEXACHLOROBENZENE	0.2821					11.7
994	ATRATON	0.1726					27.1
619	PROMETON (PRAMITOL)	0.1952					21.9
667	SIMAZINE (PRINCEP)	0.1442					13.4
143	ATRAZINE	0.2316					13.8
168	BETA-BHC	0.1478					12.6
622	PROPAZINE (MILOGARD)	0.2303					4.5
577	PENTACHLOROPHENOL	0.0558					39.7
380	GAMMA-BHC (LINDANE)	0.1840					11.1
700	TERBUFOS (COUNTER)	0.2517					12.7
1025	PRONAMIDE	0.3826					17.5
911	DIAZINON	0.3120					9.2
597	PHENANTHRENE	1.2310					3.8
1030	CHLOROTHALONIL (BRAVO)	0.1663					22.1
328	DISULFOTON	0.8796					9.8
128	ANTHRACENE	1.1309					7.1
1006	METHYLPARAOXON	0.1866					27.2
1013	TERBACIL	0.2582					18.8
290	DELTA-BHC	0.1342					6.5
959	2,4,5-TRICHLOROBIPHENYL	0.3246					12.4
3473	ACETOCHLOR	0.1904					12.1
481	METRIBUZIN (LEXONE)	0.1562					33.9
110	ALACHLOR	0.2638					5.2
1011	SIMETRYN	0.2283					26.5
993	AMETRYN	0.1961					18.9
391	HEPTACHLOR	0.3643					8.7

WK 10-10-1

QC Report

QC Type CAL01
Date Entered 10Oct2001
Analysis Date/Time 08Oct2001 01:58:00

Duplicate Sample ID
Duplicate QCSampleID
Method Matrix

Data File 5217H.D
Analyst 2447 J. MINNIEAR, II
Units

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
1024	PROMETRYN (CAPAROL)	0.2254					20.3
1014	TERBUTRYN	0.2052					15.7
329	DI-N-BUTYLPHTHALATE	2.3138					7.1
1021	BROMACIL	0.1734					19
958	2,2',4,4'-TETRACHLOROBIPHENYL	0.2043					13.1
111	ALDRIN	0.2836					14.7
480	METOLACHLOR (DUAL)	0.7540					8.2
238	CHLOROPYRIFOS (DURSBAN)	0.0460					31.9
912	DCPA (DACTHAL)	0.2023					2.5
268	CYANAZINE (BLADEX)	0.0163					32.9
1015	TRIADIMEFON	0.3403					23.8
997	DIPHENAMID	0.4789					18.7
1008	MGK 264	0.2809					11.8
3575	MGK 264-B	0.2809					11.8
572	PENDIMETHALIN	0.1339					43.6
1008	MGK 264	0.2755					12
3575	MGK 264-B	0.2755					12
394	HEPTACHLOR EPOXIDE	0.1924					29.3
957	2,2',3',4,6-PENTACHLOROBIPHENYL	0.1418					4.9
381	GAMMA-CHLORDANE	0.1130					11.7
1012	STIROFOS	0.2907					20.1
995	BUTACHLOR	0.2275					12.3
118	ALPHA-CHLORDANE	0.1011					5.3
119	ALPHA-ENDOSULFAN	0.0709					11.1
749	TRANS-NONACHLOR	0.1136					3.8
1001	FENAMIPHOS	0.0388					41.5
1009	NAPROPAMIDE	0.5515					15.2
1016	TRICYCLAZOLE	0.0427					31.2
78	4,4'-DDE	0.1870					5.5
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0.1349					1.8
624	PYRENE	2.7281					11.2
303	DIELDRIN	1.0790					14.6
1023	CARBOXIN	0.9452					21.4
338	ENDRIN	0.2159					22.9
232	CHLOROBENZILATE	0.9104					29.7
169	BETA-ENDOSULFAN	0.1098					29.2
77	4,4'-DDD	0.8828					13.8
339	ENDRIN ALDEHYDE	0.3151					16
1010	NORFLURAZON	0.3017					27.1
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTI	1.5599					16.2
337	ENDOSULFAN SULFATE	0.0834					29.2
79	4,4'-DDT	0.5458					28.1
1004	HEXAZINONE	0.7178					25.1
953	DI(2-ETHYLHEXYL)ADIPATE	1.7187					19.3
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0.2171					15.1
155	BENZO(A)ANTHRACENE	1.4842					11
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	0.3209					13.4
474	METHOXYCHLOR	0.8359					29.4
245	CHRYSENE	1.2053					4.7
185	BIS(2-ETHYLHEXYL)PHTHALATE	2.0755					15.4
1002	FENARIMOL	0.2053					21.8
2259	CIS-PERMETHRIN	1.7190					16.9
2260	TRANS-PERMETHRIN	1.6542					17.3
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI	0.8953					6.7
159	BENZO(K)FLUORANTHENE	0.8939					7.8

QC Report

QC Type CAL01
Date Entered 10Oct2001
Analysis Date/Time 08Oct2001 01:58:00

Duplicate Sample ID
Duplicate QCSampleID
Method Matrix

Data File 5217H.D
Analyst 2447 J. MINNIEAR, II
Units

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
156	BENZO(A)PYRENE	0.7653					7.6
1003	FLURIDONE	0.1543					27.6
413	INDENO(1,2,3-CD)PYRENE	0.7028					14.3
294	DIBENZ(A,H)ANTHRACENE	0.5473					8.4
158	BENZO(G,H,I)PERYLENE	0.6023					11.3
2949	2-NITRO-M-XYLENE	0.3005					26.3
2894	TRIPHENYL ESTER PHOSPHORIC ACID	0.2856					28.8
3474	PERYLENE-D12	0.5796					28.8

Comments

NA

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.68	164	1815253	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.07	188	1594727	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.11	240	396202	5.00	ug/ml	0.00
118) p-Terphenyl-d14	26.33	244	626956	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	224523	2.00	ug/ml	0.00
100) Triphenylphosphate	28.30	326	58160	2.83	ug/ml	0.00
114) Perylene-d12	32.78	264	86472	2.11	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.18	82	1029779	1.87	ug/ml	95
4) Dichlorvos	15.79	109	732000	2.18	ug/ml#	70
5) Hexachlorocyclopentadiene	16.89	237	123337	2.08	ug/ml#	71
6) EPTC	17.17	128	416853	1.96	ug/ml#	18
7) Mevinphos	17.92	127	672234	2.60	ug/ml#	56
8) Butylate	17.97	146	258900	1.91	ug/ml#	1
9) Vernolate	18.18	128	478662	1.98	ug/ml#	44
10) Terrazole	18.23	211	105061	2.38	ug/ml#	85
11) Dimethylphthalate	18.21	163	950674	2.04	ug/ml	100
12) Pebulate	18.34	128	488939	2.05	ug/ml#	19
13) 2,6-Dinitrotoluene	18.31	165	172552	2.19	ug/ml#	75
14) Acenaphthylene	18.39	152	1331168	2.07	ug/ml	100
15) Chloroneb	18.83	191	294115	2.04	ug/ml	97
16) 2-Chlorobiphenyl	18.86	188	641480	2.03	ug/ml	100
17) Pentachlorobenzene	19.03	248	154275	2.18	ug/ml#	50
18) Tebuthiuron	19.02	156	135932	0.70	ug/ml#	92
19) 2,4-Dinitrotoluene	19.14	165	149922	2.65	ug/ml#	67
20) Molinate	19.29	126	606214	2.00	ug/ml#	79
21) Diethylphthalate	19.73	149	992054	2.10	ug/ml	100
22) Fluorene	19.88	166	811963	2.18	ug/ml	94
23) Propachlor	19.96	120	533502	2.10	ug/ml#	3
24) Ethoprop	20.27	158	239593	2.38	ug/ml#	25
25) Cycloate	20.31	154	426519	2.08	ug/ml#	1
26) Chlorpropham	20.49	127	296677	2.14	ug/ml#	53
27) Trifluralin	20.52	306	125416	2.30	ug/ml	91
28) alpha-BHC	21.05	181	154295	1.97	ug/ml#	88
29) 2,3-Dichlorobiphenyl	21.09	222	355972	2.04	ug/ml#	53
31) Hexachlorobenzene	21.14	284	173415	1.79	ug/ml#	93
32) Atraton	21.29	196	137516	2.68	ug/ml#	72
33) Prometon	21.40	210	146335	2.37	ug/ml#	82
34) Simazine	21.43	201	104704	2.19	ug/ml	91
35) Atrazine	21.52	200	330513	4.58	ug/ml	100
36) beta-BHC	21.57	183	95282	1.87	ug/ml	95
37) Propazine	21.59	214	151573	2.08	ug/ml#	86
38) Pentachlorophenol	21.63	266	165895	8.07	ug/ml	96
39) g-BHC (Lindane)	21.77	181	120923	1.92	ug/ml#	86
40) Terbufos	21.82	231	182907	2.24	ug/ml#	1
41) Pronamide	21.89	173	276481	2.27	ug/ml#	91
42) Diazinon	21.92	137	201480	1.92	ug/ml#	90
43) Phenanthrene	22.13	178	787560	2.06	ug/ml	97
44) Chlorothalonil	22.09	266	120723	2.01	ug/ml#	88
45) Disulfoton	22.20	88	590936	2.02	ug/ml#	42
46) Anthracene	22.25	178	714257	2.02	ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methyl paraoxon	22.20	109	122619	2.26 ug/ml#	49
48) Terbacil	22.19	161	173156	2.40 ug/ml#	81
49) delta-BHC	22.35	181	83359	1.71 ug/ml#	72
50) Trichlorobiphenyl	22.68	256	213887	2.00 ug/ml	100
51) Acetochlor	23.13	146	120401	2.01 ug/ml#	51
52) Metribuzin	22.98	198	123768	2.43 ug/ml	100
53) Alachlor	23.13	160	357782	4.17 ug/ml	84
54) Simetryn	23.21	213	170113	2.36 ug/ml#	91
55) Ametryn	23.28	227	131061	2.05 ug/ml#	73
56) Heptachlor	23.36	100	230164	1.81 ug/ml#	32
57) Prometryn	23.35	241	172496	2.32 ug/ml	89
58) Terbutryn	23.63	226	141900	2.17 ug/ml	96
59) Di-n-butyl phthalate	23.76	149	1505152	1.99 ug/ml	99
60) Bromacil	23.69	205	114676m	2.91 ug/ml	81
61) Tetrachlorobiphenyl	23.90	292	136168	1.94 ug/ml	100
62) Aldrin	24.15	66	157005	1.52 ug/ml#	64
63) Metolachlor	23.97	162	508024	2.14 ug/ml	90
64) Chlorpyrifos	24.00	314	33594	2.10 ug/ml#	1
65) DCPA	24.11	301	135203	2.17 ug/ml#	91
66) Cyanazine	24.09	212	9958	2.26 ug/ml#	11
67) Triadimefon	24.23	57	223715	2.09 ug/ml#	44
68) Diphenamid	24.49	167	332998	2.12 ug/ml#	39
69) MGK 264-A	24.52	111	96539	0.94 ug/ml#	77
70) Pendimethalin	24.71	252	106106	2.36 ug/ml#	68
71) MGK 264-B	24.80	164	83151	1.00 ug/ml#	70
72) Heptachlor epoxide	24.99	81	115150	1.74 ug/ml#	63
73) Pentachlorobiphenyl	25.03	326	89826	1.77 ug/ml	100
74) g-Chlordane	25.50	375	76449	2.12 ug/ml	100
75) Stirofos	25.51	109	189423	2.08 ug/ml#	62
76) Butachlor	25.57	176	157563	2.22 ug/ml	100
77) a-Chlordane	25.78	373	63902	1.76 ug/ml#	81
78) Endosulfan I	25.80	195	39870	1.78 ug/ml#	72
79) trans-Nonachlor	25.85	409	75610	1.74 ug/ml#	50
80) Fenamiphos	25.82	303	25405	2.52 ug/ml#	30
81) Napropamide	25.90	72	338871	1.83 ug/ml#	70
82) Tricyclazole	26.18	189	21543m	2.99 ug/ml	55
83) p,p'-DDE	26.21	246	117103	1.81 ug/ml	95
84) Hexachlorobiphenyl	26.35	360	85149	1.86 ug/ml#	64
86) Pyrene	25.78	202	504998	2.43 ug/ml#	77
87) Dieldrin	26.38	79	192150	2.15 ug/ml#	59
88) Carboxin	26.40	143	174824	2.57 ug/ml#	52
89) Endrin	26.86	81	42374	2.06 ug/ml#	28
90) Chlorobenzilate	26.91	139	201600	3.61 ug/ml	90
91) Endosulfan II	27.07	195	19665	2.32 ug/ml#	69
92) p,p'-DDD	27.12	235	169898	2.38 ug/ml#	92
93) Endrin aldehyde	27.39	67	57945	2.18 ug/ml#	47
94) Norflurazon	27.68	145	59161	2.89 ug/ml#	68
95) Butylbenzylphthalate	27.79	149	302111	2.63 ug/ml	97
96) Endosulfan sulfate	27.88	272	14491	1.48 ug/ml#	78
97) p,p'-DDT	27.94	235	111285	2.36 ug/ml#	76
98) Hexazinone	28.02	171	132652	3.02 ug/ml#	88
99) Di(2-ethylhexyl)adipate	28.13	129	349982	2.83 ug/ml#	62
101) Heptachlorobiphenyl	28.99	394	42702	2.41 ug/ml#	1
102) Benz(a)anthracene	29.09	228	244802	2.16 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) Octachlorobiphenyl	29.10	430	61197	2.32 ug/ml#	73
104) Methoxychlor	29.10	227	176020m	2.56 ug/ml	42
105) Chrysene	29.18	228	203866	2.17 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.47	149	387337	2.64 ug/ml	99
107) Fenarimol	30.35	139	30692	2.33 ug/ml#	94
108) cis-Permethrin	31.00	183	275290	2.06 ug/ml#	70
109) trans-Permethrin	31.13	183	45936	0.38 ug/ml#	91
110) Benzo(b)fluoranthene	31.88	252	142928	2.00 ug/ml#	81
111) Benzo(k)fluoranthene	31.95	252	135733	2.11 ug/ml#	82
112) Benzo(a)pyrene	32.65	252	118020	2.07 ug/ml	100
113) Fluridone	32.63	328	24295	4.98 ug/ml#	89
115) Indeno(1,2,3-cd)pyrene	35.52	276	94703m	2.14 ug/ml	59
116) Dibenz(a,h)anthracene	35.61	278	75339	2.39 ug/ml#	28
117) Benzo(g,h,i)perylene	36.29	276	78590	2.10 ug/ml#	21

(#) = qualifier out of range (m) = manual integration

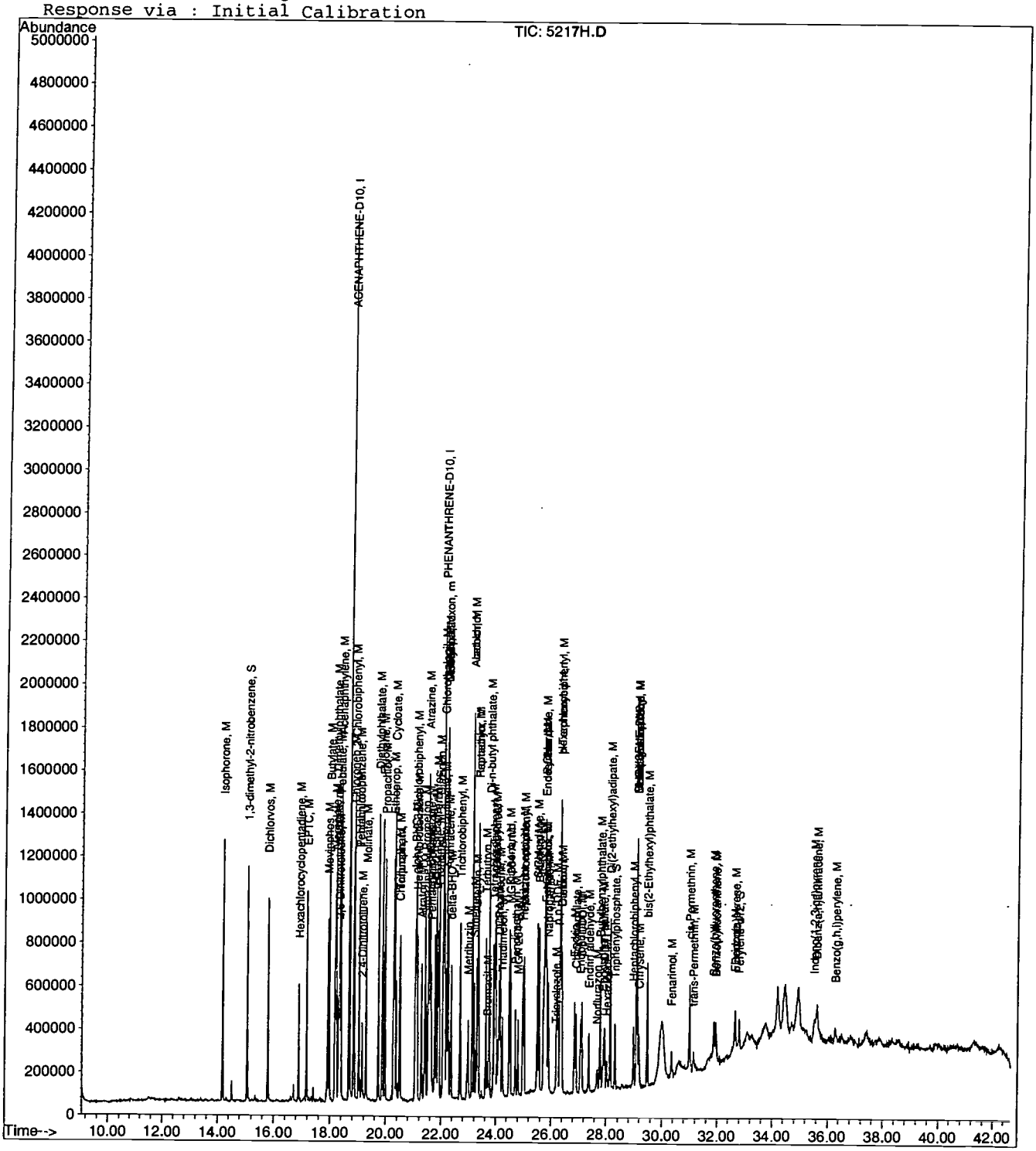
Quantitation Report

Data File : D:\HDATA~1\H100801\5217H.D
Acq On : 8 Oct 01 1:58 am
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Oct 8 19:40 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



R420950

Heritage Environmental Services
QC Report

Q1283442 4

QC Type	BLA02	Duplicate Sample ID		Data File	5224H.D
Date Entered	24Sep2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	08Oct2001 07:56:00	Method 0	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE			0.10	BDL		
976	DICHLORVOS			0.10	BDL		
399	HEXACHLOROCYCLOPENTADIENE			0.10	BDL		
346	EPTC (ERADICANE)			0.10	BDL		
1007	MEVINPHOS			0.10	BDL		
1022	BUTYLATE (SUTAN PLUS)			0.10	BDL		
766	VERNOLATE			0.10	BDL		
2258	ETRIDIAZOLE			0.10	BDL		
310	DIMETHYLPHTHALATE			0.10	BDL		
571	PEBULATE (TILLAM)			0.10	BDL		
50	2,6-DINITROTOLUENE			0.10	BDL		
98	ACENAPHTHYLENE			0.10	BDL		
2257	CHLORNEB			0.10	BDL		
53	(1) 2-CHLOROBIPHENYL			0.10	BDL		
573	PENTACHLOROBENZENE			0.10	BDL		
821	TEBUTHIURON			0.10	BDL		
48	2,4-DINITROTOLUENE			0.10	BDL		
482	MOLINATE			0.10	BDL		
306	DIETHYLPHTHALATE			0.10	BDL		
366	FLUORENE			0.10	BDL		
621	PROPACHLOR			0.10	BDL		
1000	ETHOPROP			0.10	BDL		
996	CYCLOATE			0.10	BDL		
978	CHLOROPROPHAM			0.10	BDL		
753	TRIFLURALIN			0.10	BDL		
117	ALPHA-BHC			0.10	BDL		
952	(5) 2,3-DICHLOROBIPHENYL			0.10	BDL		
397	HEXACHLOROBENZENE			0.10	BDL		
994	ATRATON			0.10	BDL		
619	PROMETON (PRAMITOL)			0.10	BDL		
667	SIMAZINE (PRINCEP)			0.10	BDL		
143	ATRAZINE			0.20	BDL		
168	BETA-BHC			0.10	BDL		
622	PROPAZINE (MILOGARD)			0.10	BDL		
577	PENTACHLOROPHENOL			0.40	BDL		
380	GAMMA-BHC (LINDANE)			0.10	BDL		
700	TERBUFOS (COUNTER)			0.10	BDL		
1025	PRONAMIDE			0.10	BDL		
911	DIAZINON			0.10	BDL		
597	PHENANTHRENE			0.10	BDL		
1030	CHLOROTHALONIL (BRAVO)			0.10	BDL		
328	DISULFOTON			0.10	BDL		
128	ANTHRACENE			0.10	BDL		
1006	METHYLPARAOXON			0.10	BDL		
1013	TERBACIL			0.10	BDL		
290	DELTA-BHC			0.10	BDL		
959	2,4,5-TRICHLOROBIPHENYL			0.10	BDL		
3473	ACETOCHLOR			0.10	BDL		
481	METRIBUZIN (LEXONE)			0.10	BDL		
110	ALACHLOR			0.20	BDL		
1011	SIMETRYN			0.10	BDL		
993	AMETRYN			0.10	BDL		
391	HEPTACHLOR			0.10	BDL		

✓ WS 10/10-1

QC Report

QC Type BLA02
Date Entered 24Sep2001
Analysis Date/Time 08Oct2001 07:56:00

Duplicate Sample ID
Duplicate QCSampleID
Method 0 Matrix 1

Data File 5224H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
1024	PROMETRYN (CAPAROL)			0.10	BDL		
1014	TERBUTRYN			0.10	BDL		
329	DI-N-BUTYLPHTHALATE			0.10	BDL		
1021	BROMACIL			0.10	BDL		
958	2,2',4,4'-TETRACHLOROBIPHENYL			0.10	BDL		
111	ALDRIN			0.10	BDL		
480	METOLACHLOR (DUAL)			0.10	BDL		
238	CHLOROPYRIFOS (DURSBAN)			0.10	BDL		
912	DCPA (DACTHAL)			0.10	BDL		
268	CYANAZINE (BLADEX)			0.10	BDL		
1015	TRIADIMEFON			0.10	BDL		
997	DIPHENAMID			0.10	BDL		
1008	MGK 264			0.10	BDL		
3575	MGK 264-B			0.05	BDL		
572	PENDIMETHALIN			0.05	BDL		
1008	MGK 264			0.10	BDL		
3575	MGK 264-B			0.05	BDL		
394	HEPTACHLOR EPOXIDE			0.05	BDL		
957	2,2',3',4,6-PENTACHLOROBIPHENYL			0.10	BDL		
381	GAMMA-CHLORDANE			0.10	BDL		
1012	STIROFOS			0.10	BDL		
995	BUTACHLOR			0.10	BDL		
118	ALPHA-CHLORDANE			0.10	BDL		
119	ALPHA-ENDOSULFAN			0.10	BDL		
749	TRANS-NONACHLOR			0.10	BDL		
1001	FENAMIPHOS			0.10	BDL		
1009	NAPROPAMIDE			0.10	BDL		
1016	TRICYCLAZOLE			0.10	BDL		
78	4,4'-DDE			0.10	BDL		
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL			0.10	BDL		
624	PYRENE			0.10	BDL		
303	DIELDRIN			0.10	BDL		
1023	CARBOXIN			0.10	BDL		
338	ENDRIN			0.10	BDL		
232	CHLOROBENZILATE			0.10	BDL		
169	BETA-ENDOSULFAN			0.10	BDL		
77	4,4'-DDD			0.10	BDL		
339	ENDRIN ALDEHYDE			0.10	BDL		
1010	NORFLURAZON			0.10	BDL		
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTH			0.10	BDL		
337	ENDOSULFAN SULFATE			0.10	BDL		
79	4,4'-DDT			0.10	BDL		
1004	HEXAZINONE			0.10	BDL		
953	DI(2-ETHYLHEXYL)ADIPATE			0.10	BDL		
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL			0.10	BDL		
155	BENZO(A)ANTHRACENE			0.10	BDL		
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL			0.10	BDL		
474	METHOXYCHLOR			0.10	BDL		
245	CHRYSENE			0.10	BDL		
185	BIS(2-ETHYLHEXYL)PHTHALATE			0.10	BDL		
1002	FENARIMOL			0.10	BDL		
2259	CIS-PERMETHRIN			0.10	BDL		
2260	TRANS-PERMETHRIN			0.10	BDL		
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI			0.10	BDL		
159	BENZO(K)FLUORANTHENE			0.10	BDL		

QC Report

QC Type BLA02
Date Entered 24Sep2001
Analysis Date/Time 08Oct2001 07:56:00

Duplicate Sample ID
Duplicate QCSampleID
Method 0 Matrix 1

Data File 5224H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
156	BENZO(A)PYRENE			0.10	BDL		
1003	FLURIDONE			0.10	BDL		
413	INDENO(1,2,3-CD)PYRENE			0.10	BDL		
294	DIBENZ(A,H)ANTHRACENE			0.10	BDL		
158	BENZO(G,H,I)PERYLENE			0.10	BDL		
2949	2-NITRO-M-XYLENE					92	
2894	TRIPHENYL ESTER PHOSPHORIC ACID					104	
3474	PERYLENE-D12					94	
1804	...						
1131	TENTATIVELY IDENTIFIED COMPOUNDS						
972	----------						
758	UNKNOWN			5.8	J		

Comments

Sample failed method internal standard area criteria. Sample reanalyzed with no improvement.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK2300-755

Lab Name: HERITAGE Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: SBLK2300-755

Sample wt/vol: 1000 (g/ml) ML Lab File ID: 5224H.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/08/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	25.71	5.8 ~~8~~	J

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H100801\5224H.D
Acq On : 8 Oct 01 7:56 am
Sample : SBLK2300-755
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Oct 8 19:52 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

TC92

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.67	164	1071395	5.00 ug/ml	-0.01
30) PHENANTHRENE-D10	22.05	188	974630	5.00 ug/ml	-0.01
85) CHRYSENE-D12	29.09	240	230374	5.00 ug/ml	-0.02
118) p-Terphenyl-d14	26.32	244	436177	5.00 ug/ml	-0.01
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	296258	4.60 ug/ml	0.00
100) Triphenylphosphate	28.29	326	68319	5.19 ug/ml	-0.01
114) Perylene-d12	32.77	264	126130	4.72 ug/ml	-0.01
Target Compounds					Qvalue
11) Dimethylphthalate	18.67	163	155209	0.56 ug/ml	100
13) 2,6-Dinitrotoluene	18.67	165	138623	3.03 ug/ml#	35
18) Tebuthiuron	18.67	156	47137	1.48 ug/ml#	63
19) 2,4-Dinitrotoluene	18.67	165	88474	2.32 ug/ml#	39
82) Tricyclazole	26.18	189	1044	0.13 ug/ml#	1
83) p,p'-DDE	26.32	246	8140	0.22 ug/ml#	23
89) Endrin	26.81	81	1759	0.18 ug/ml#	1
91) Endosulfan II	27.07	195	1342	0.27 ug/ml#	29
93) Endrin aldehyde	27.43	67	3426	0.24 ug/ml#	51

Do Not Report

(JCM 10-8-01)

(#) = qualifier out of range (m) = manual integration
5224H.D DRINKWI.M Mon Oct 08 19:52:59 2001

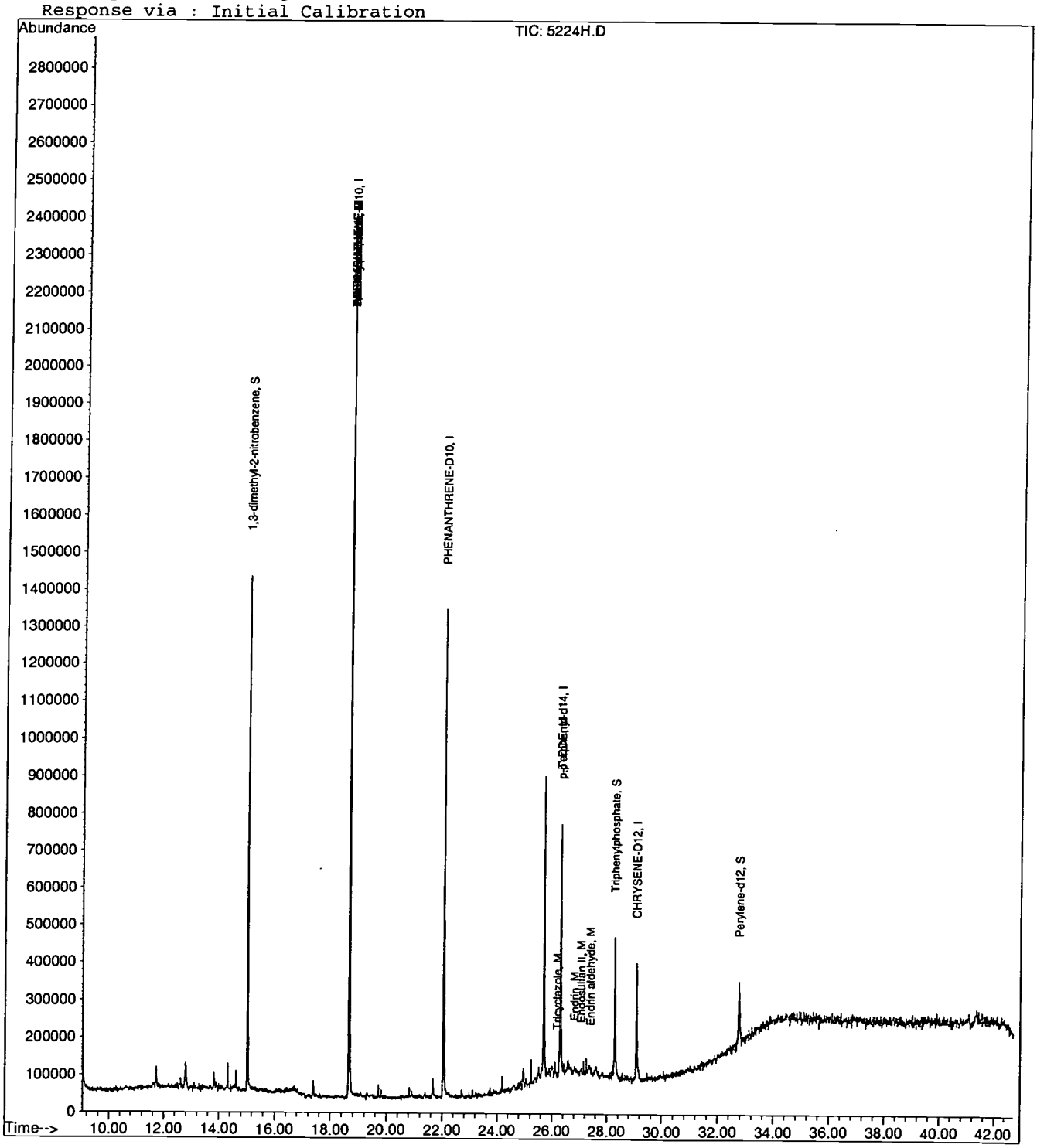
Quantitation Report

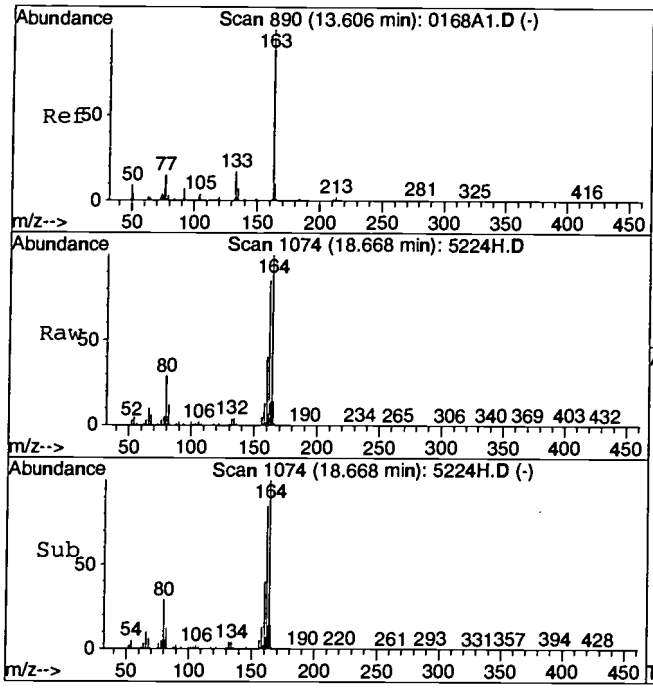
Data File : D:\HDATA~1\H100801\5224H.D
Acq On : 8 Oct 01 7:56 am
Sample : SBLK2300-755
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Oct 8 19:52 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

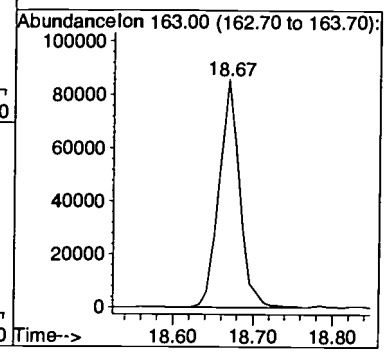


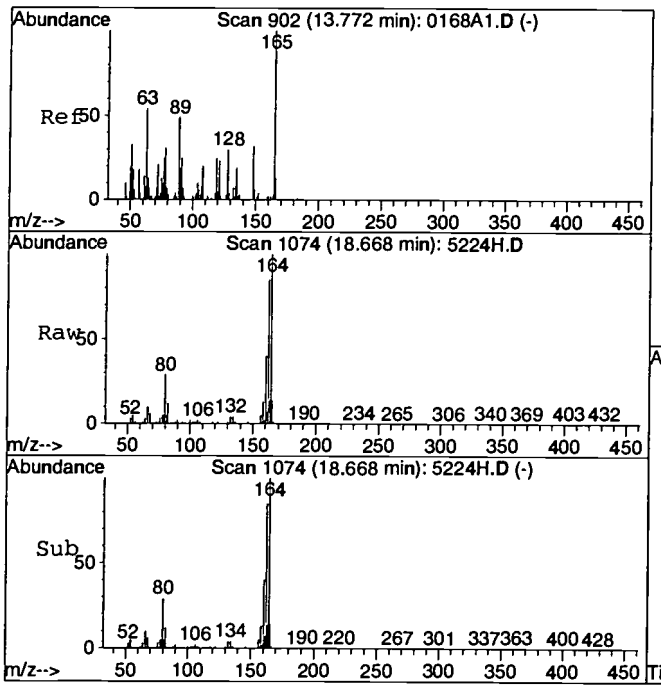


#11
Dimethylphthalate
Concen: 0.56 ug/ml
RT: 18.67 min Scan# 1074
Delta R.T. 0.45 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion:163 Resp: 155209

Baddit Jem



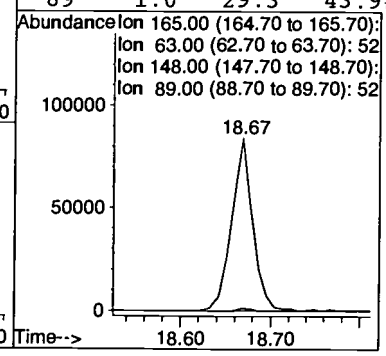


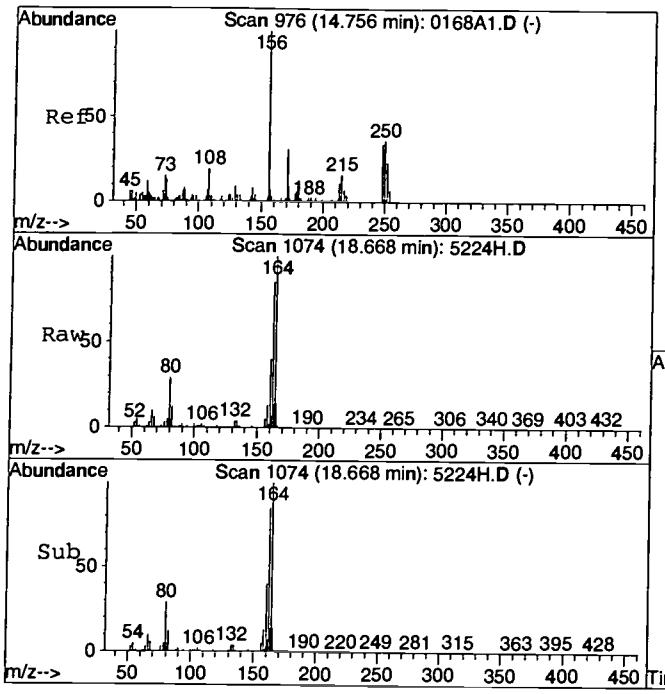
#13
2,6-Dinitrotoluene
Concen: 3.03 ug/ml
RT: 18.67 min Scan# 1074
Delta R.T. 0.35 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion:165 Resp: 138623

Ion	Ratio	Lower	Upper
165	100		
63	0.8	40.7	61.1#
148	0.3	29.4	44.2#
89	1.0	29.3	43.9#

Baddit Jem

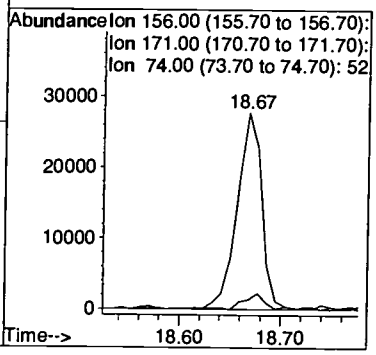




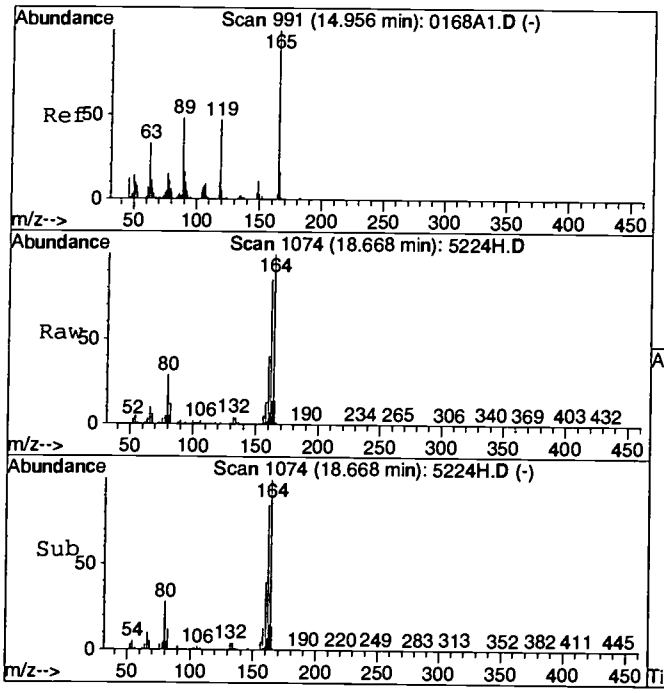
#18
Tebuthiuron
Concen: 1.48 ug/ml
RT: 18.67 min Scan# 1074
Delta R.T. -0.35 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion:156 Resp: 47137

Ion	Ratio	Lower	Upper
156	100		
171	0.0	19.0	28.6#
74	7.1	12.2	18.2#



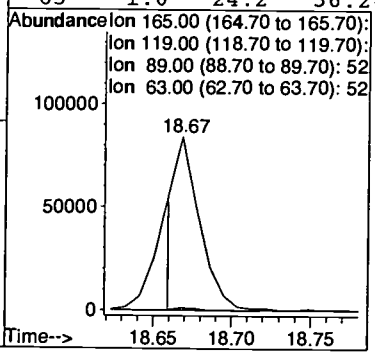
Badfit Jim



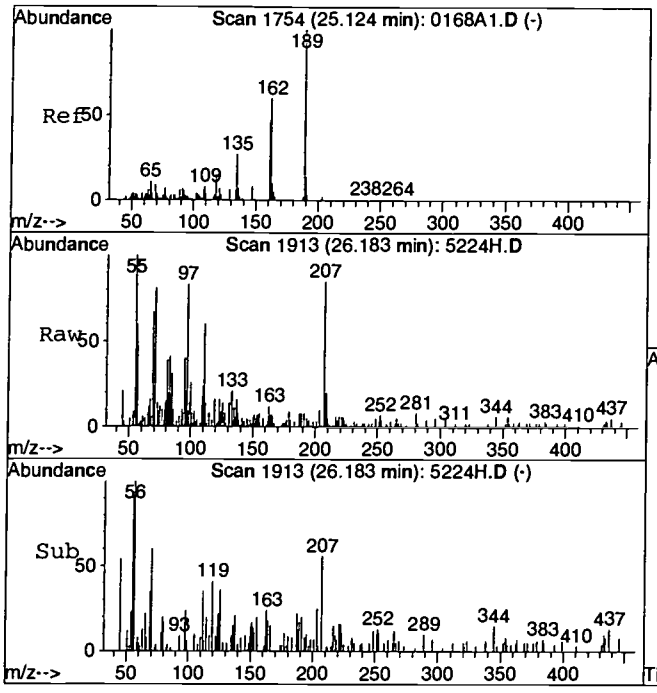
#19
2,4-Dinitrotoluene
Concen: 2.32 ug/ml
RT: 18.67 min Scan# 1074
Delta R.T. -0.47 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion:165 Resp: 88474

Ion	Ratio	Lower	Upper
165	100		
119	0.4	36.4	54.6#
89	2.0	27.4	41.2#
63	1.0	24.2	36.2#



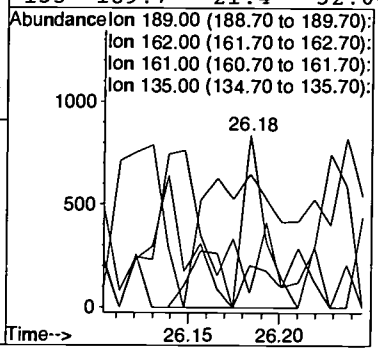
Badfit Jim



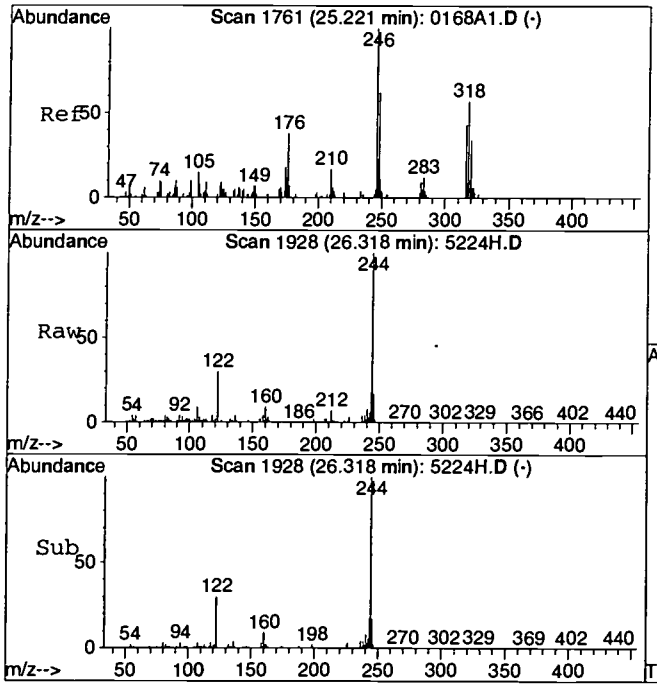
#82
Tricyclazole
Concen: 0.13 ug/ml
RT: 26.18 min Scan# 1913
Delta R.T. 0.01 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion:189 Resp: 1044

Ion	Ratio	Lower	Upper
189	100		
162	0.0	43.7	65.5#
161	0.0	29.8	44.6#
135	189.7	21.4	32.0#



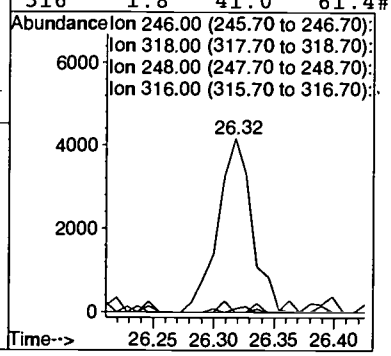
Bad Hit Jun



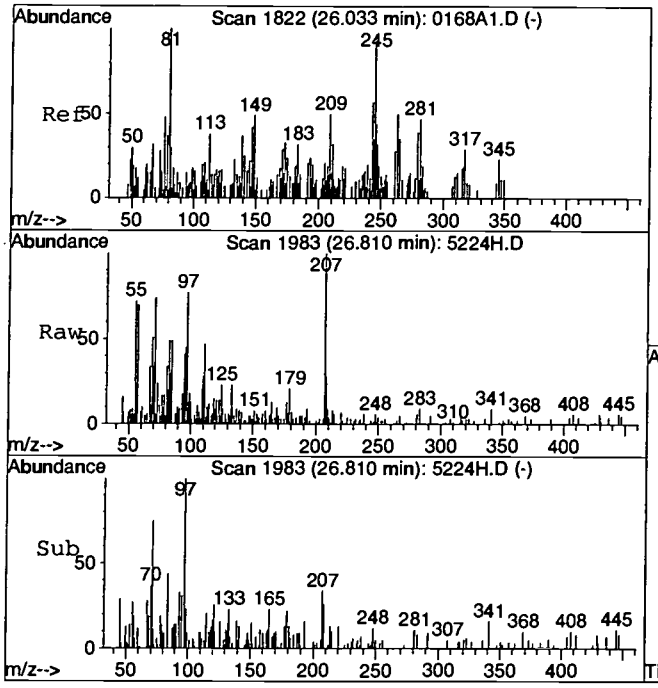
#83
p,p'-DDE
Concen: 0.22 ug/ml
RT: 26.32 min Scan# 1928
Delta R.T. 0.10 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion:246 Resp: 8140

Ion	Ratio	Lower	Upper
246	100		
318	2.1	51.8	77.6#
248	1.7	49.3	73.9#
316	1.8	41.0	61.4#



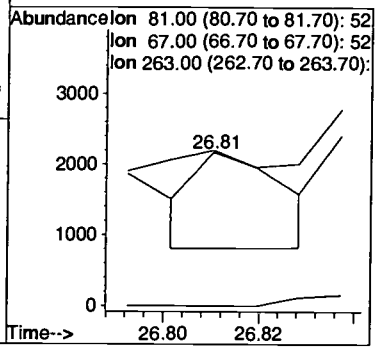
Bad Hit Jun



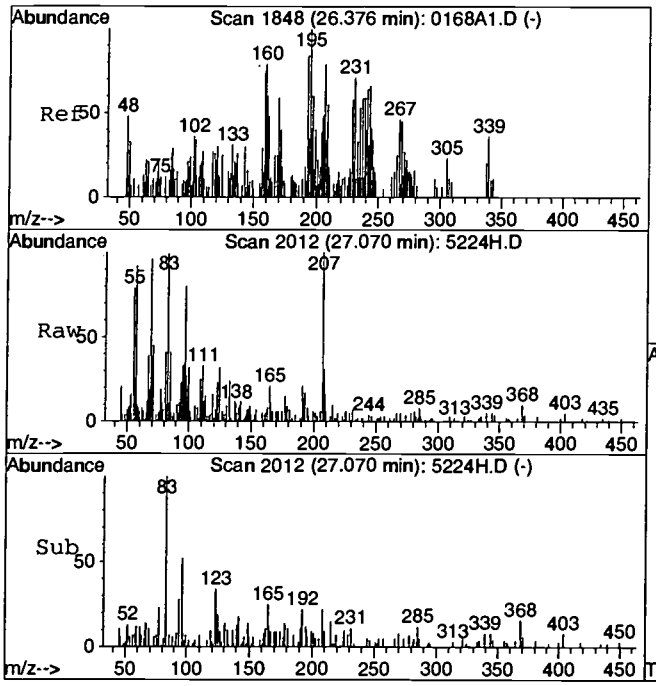
#89
Endrin
Concen: 0.18 ug/ml
RT: 26.81 min Scan# 1983
Delta R.T. -0.05 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion: 81 Resp: 1759

Ion	Ratio	Lower	Upper
81	100		
67	354.3	24.0	36.0#
263	8.2	0.0	0.0#



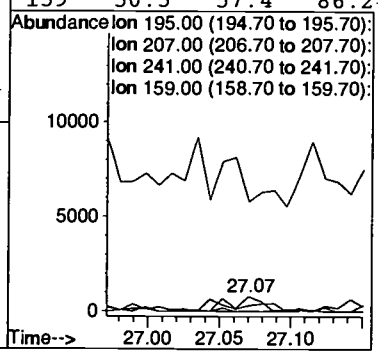
Bad Hit Jim



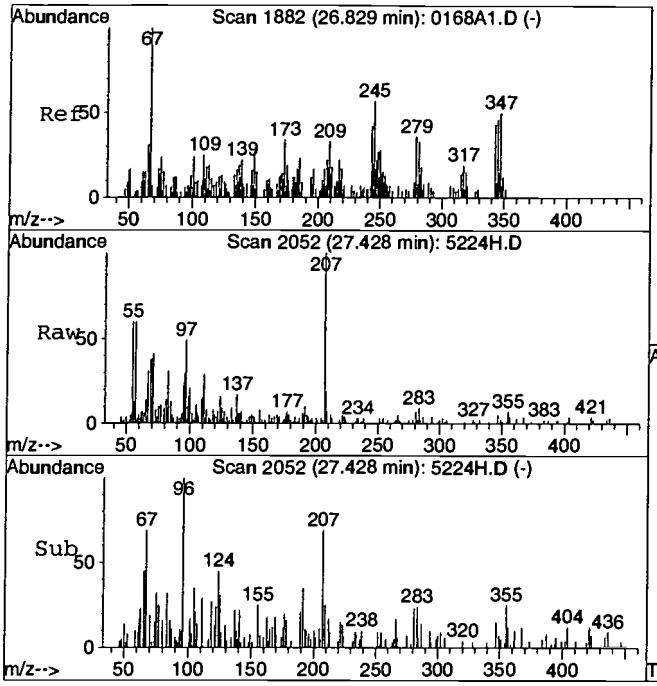
#91
Endosulfan II
Concen: 0.27 ug/ml
RT: 27.07 min Scan# 2012
Delta R.T. -0.00 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion:195 Resp: 1342

Ion	Ratio	Lower	Upper
195	100		
207	185.3	70.8	106.2#
241	7.5	55.0	82.4#
159	50.5	57.4	86.2#



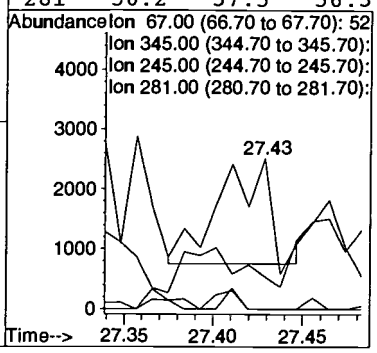
Bad Hit Jim



#93
Endrin aldehyde
Concen: 0.24 ug/ml
RT: 27.43 min Scan# 2052
Delta R.T. 0.04 min
Lab File: 5224H.D
Acq: 8 Oct 01 7:56 am

Tgt Ion: 67 Resp: 3426

Ion	Ratio	Lower	Upper
67	100		
345	5.5	51.1	76.7#
245	8.6	39.2	58.8#
281	50.2	37.5	56.3



Bad Hit
Jun

LSC Area Percent Report

Data File : D:\HDATA~1\H100801\5224H.D
Acq On : 8 Oct 01 7:56 am
Sample : SBLK2300-755
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

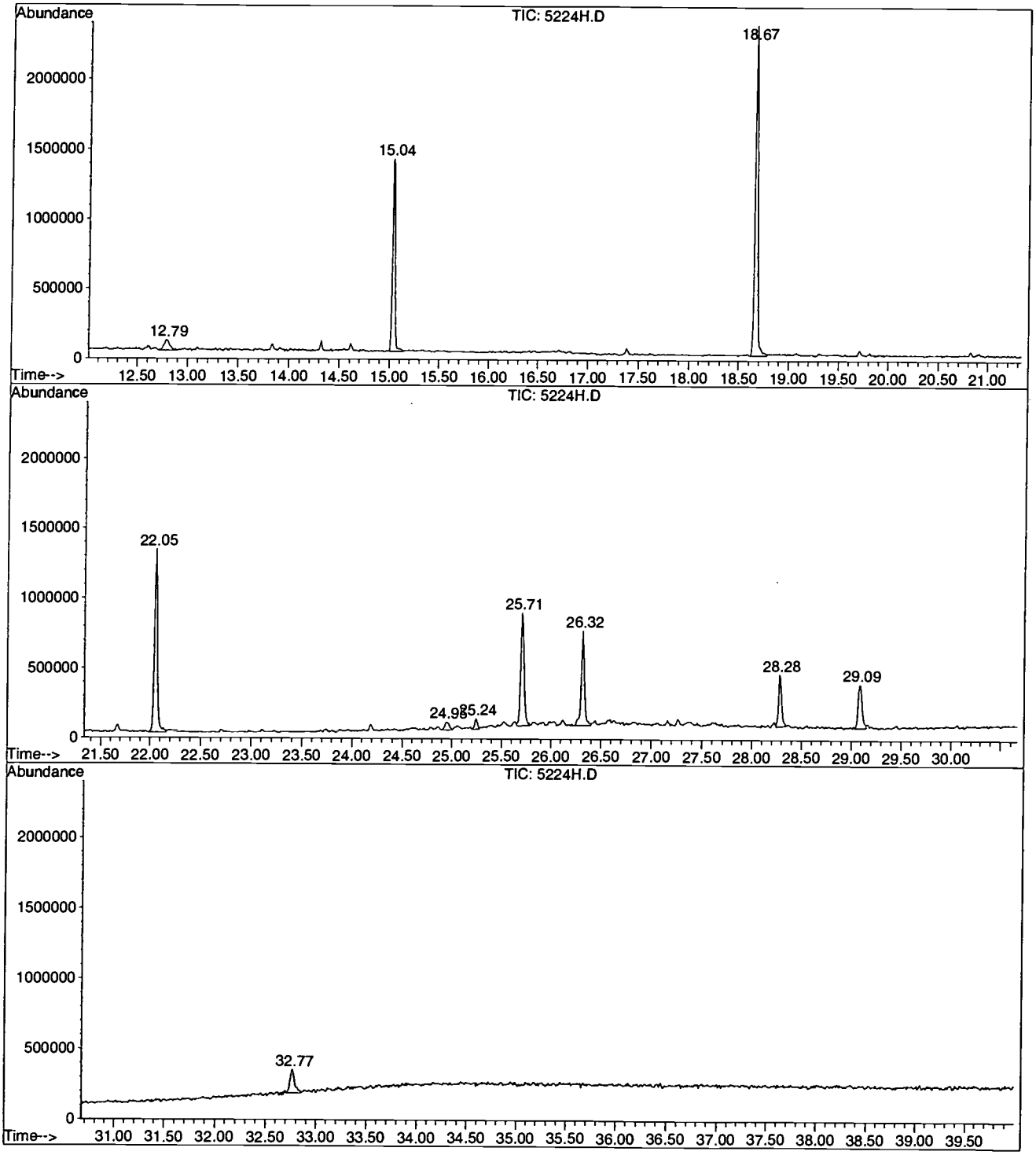
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	raw area	corr. area	corr. % max.	% of total
1	12.792	80	89	101	rVB4	76449	1037766.	316308	7.23%	1.994%
2	15.040	335	340	352	rBV	1379162	2998408	2397468	54.82%	15.112%
3	18.668	738	745	758	rBV	2363903	4930111	4373275	100.00%	27.567%
4	22.054	1115	1123	1135	rBV2	1310939	3302344	2750802	62.90%	17.340%
5	24.947	1440	1446	1453	rBV5	58993	639358	189601	4.34%	1.195%
6	25.243	1474	1479	1483	rBV3	75685	488084	149078	3.41%	0.940%
7	25.709	1525	1531	1541	rVB2	804377	2617882	1853272	42.38%	11.682%
8	26.318	1590	1599	1608	rBV	675662	2401737	1591999	36.40%	10.035%
9	28.279	1814	1818	1826	rVV	371589	1456986	817416	18.69%	5.153%
10	29.086	1899	1908	1915	rBV2	312666	1562193	878190	20.08%	5.536%
11	32.767	2312	2319	2328	rVB4	168605	1649350	546889	12.51%	3.447%

Sum of corrected areas: 15864298

5224H.D DRINKWI.M Mon Oct 08 20:25:41 2001

LSC Report - Integrated Chromatogram

File : D:\HDATA~1\H100801\5224H.D
Operator : JCM
Acquired : 8 Oct 01 7:56 am using AcqMethod DRINKW
Instrument : GC/MS Ins
Sample Name: SBLK2300-755
Misc Info : 1L-1ML
Vial Number: 8
Quant File :DRINKWI.RES (RTE Integrator)



5224H.D DRINKWI.M Mon Oct 08 20:25:42 2001

Library Search Compound Report

Data File : D:\HDATA~1\H100801\5224H.D
Acq On : 8 Oct 01 7:56 am
Sample : SBLK2300-755
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

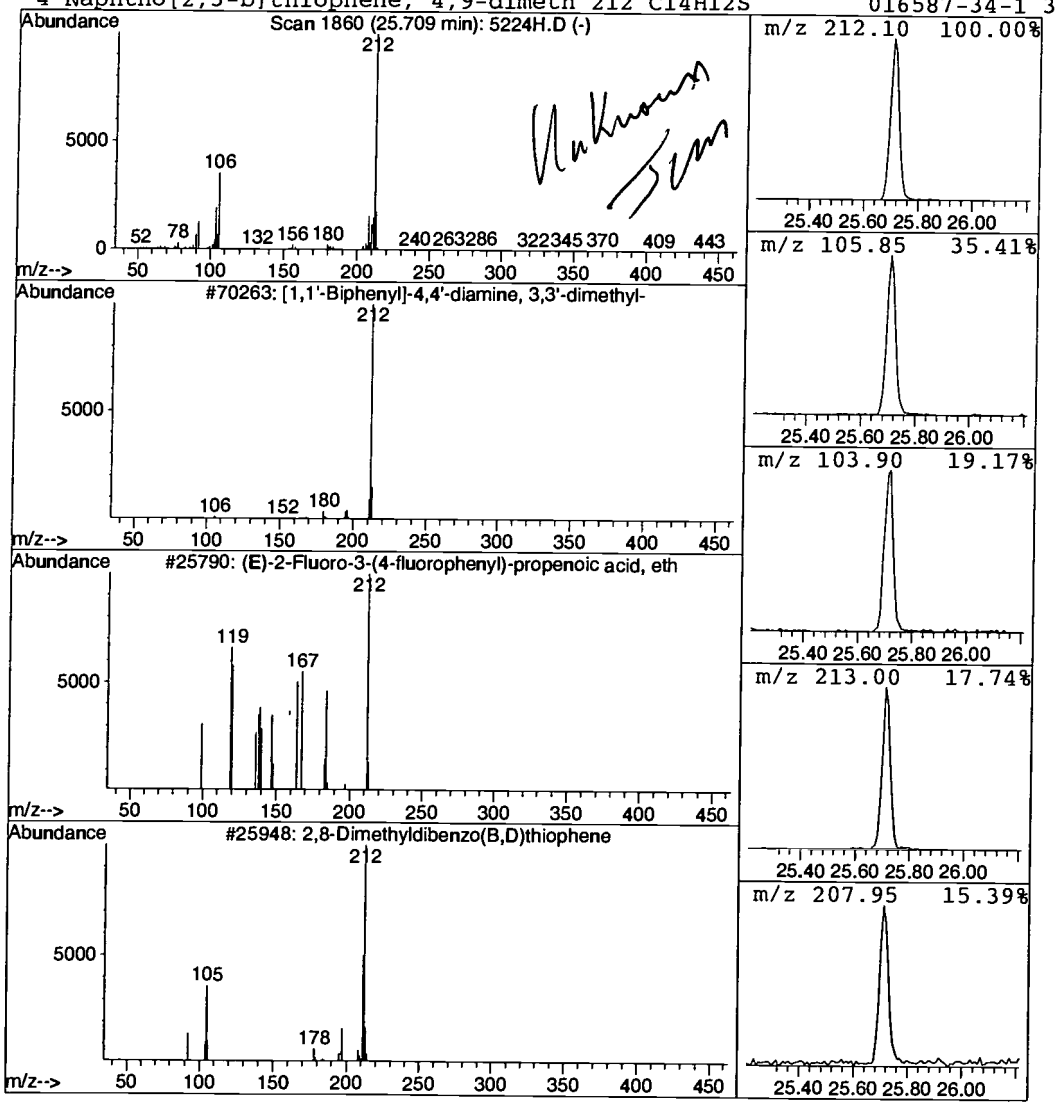
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 1 [1,1'-Biphenyl]-4,4'-diamine, Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.71	5.82 ug/ml	1853270	p-Terphenyl-d14	26.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-	212	C14H16N2	000119-93-7	64
2	(E)-2-Fluoro-3-(4-fluorophenyl)-pro	212	C11H10F2O2	000000-00-0	38
3	2,8-Dimethyldibenzo(B,D)thiophene	212	C14H12S	001207-15-4	33
4	Naphtho[2,3-b]thiophene, 4,9-dimeth	212	C14H12S	016587-34-1	33



Tentatively Identified Compound (LSC) summary

Operator ID: JCM Date Acquired: 8 Oct 01 7:56 am
Data File: D:\HDATA~1\H100801\5224H.D
Name: SBLK2300-755
Misc: 1L-1ML
Method: I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title: DRINKING WATER CALIBRATION
Library Searched: C:\DATABASE\nbs75k.l

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
[1,1'-Biphenyl]-4,4'	25.71	5.8	ug/ml	1853270	ISTD03	26.32	1592000	5.0

5224H.D DRINKWI.M Mon Oct 08 20:25:44 2001

QC Report

QC Type	LCS	Duplicate Sample ID		Data File	5225H.D
Date Entered	24Sep2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	08Oct2001 08:48:00	Method 0	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE	2		1.98		99	
976	DICHLORVOS	2		1.79		89.5	
405	HEXACHLOROCYCLOPENTADIENE.	2		1.06		53	
346	EPTC (ERADICANE)	2		1.74		87	
1007	MEVINPHOS	2		1.67		83.5	
1022	BUTYLATE (SUTAN PLUS)	2		1.7		85	
766	VERNOLATE	2		1.89		94.5	
2258	ETRIDIAZOLE	2		1.93		96.5	
310	DIMETHYLPHTHALATE	2		1.96		98	
571	PEBULATE (TILLAM)	2		1.8		90	
50	2,6-DINITROTOLUENE	2		1.19		59.5	
98	ACENAPHTHYLENE	2		1.87		93.5	
2257	CHLORNEB	2		1.97		98.5	
53	(1) 2-CHLOROBIPHENYL	2		1.86		93	
573	PENTACHLOROBENZENE	2		1.54		77	
821	TEBUTHIURON	2		0.02	!	1	
48	2,4-DINITROTOLUENE	2		.94		47	
482	MOLINATE	2		1.93		96.5	
306	DIETHYLPHTHALATE	2		1.91		95.5	
366	FLUORENE	2		2.04		102	
621	PROPACHLOR	2		1.99		99.5	
1000	ETHOPROP	2		1.86		93	
996	CYCLOATE	2		1.86		93	
978	CHLOROPROPHAM	2		1.81		90.5	
753	TRIFLURALIN	2		1.23		61.5	
117	ALPHA-BHC	2		1.73		86.5	
952	(5) 2,3-DICHLOROBIPHENYL	2		1.83		91.5	
397	HEXACHLOROBENZENE	2		1.5		75	
994	ATRATON	2		.27	!	13.5	
619	PROMETON (PRAMITOL)	2		.6		30	
1819	SIMAZINE	2		1.59		79.5	
143	ATRAZINE	4		3.64		91	
168	BETA-BHC	2		1.96		98	
622	PROPAZINE (MILOGARD)	2		1.83		91.5	
577	PENTACHLOROPHENOL	8		0.06	!	0.8	
380	GAMMA-BHC (LINDANE)	2		1.79		89.5	
700	TERBUFOS (COUNTER)	2		1.58		79	
1025	PRONAMIDE	2		1.64		82	
911	DIAZINON	2		1.72		86	
597	PHENANTHRENE	2		1.85		92.5	
1030	CHLOROTHALONIL (BRAVO)	2		2.18		109	
328	DISULFOTON	2		1.86		93	
128	ANTHRACENE	2		1.69		84.5	
1006	METHYLPARAOXON	2		1.33		66.5	
1013	TERBACIL	2		1.5		75	
290	DELTA-BHC	2		1.83		91.5	
959	2,4,5-TRICHLOROBIPHENYL	2		1.55		77.5	
3473	ACETOCHLOR	2		2.19		109.5	
2111	METRIBUZIN	2		1.21		60.5	
110	ALACHLOR	4		3.73		93.3	
1011	SIMETRYN	2		.82		41	
993	AMETRYN	2		1.18		59	
391	HEPTACHLOR	2		1.34		67	

QC Report

QC Type LCS
Date Entered 24Sep2001
Analysis Date/Time 08Oct2001 08:48:00
Duplicate Sample ID
Duplicate QCSampleID
Method 0 Matrix 1
Data File 5225H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
620	PROMETRYN	2		1.48		74	
1014	TERBUTRYN	2		1.01		50.5	
329	DI-N-BUTYLPHTHALATE	2		1.71		85.5	
1021	BROMACIL	2		1.64		82	
958	2,2',4,4'-TETRACHLOROBIPHENYL	2		1.46		73	
111	ALDRIN	2		1.42		71	
466	METOLACHLOR	2		1.76		88	
238	CHLOROPYRIFOS (DURSBAN)	2		1.7		85	
912	DCPA (DACTHAL)	2		1.67		83.5	
268	CYANAZINE (BLADEX)	2		1.53		76.5	
1015	TRIADIMEFON	2		1.29		64.5	
997	DIPHENAMID	2		1.85		92.5	
1008	MGK 264	1		.91		91	
572	PENDIMETHALIN	2		1.19		59.5	
1008	MGK 264	1		.85		85	
394	HEPTACHLOR EPOXIDE	2		1.59		79.5	
957	2,2',3',4,6-PENTACHLOROBIPHENYL	2		1.52		76	
381	GAMMA-CHLORDANE	2		1.31		65.5	
1012	STIROFOS	2		1.65		82.5	
995	BUTACHLOR	2		1.67		83.5	
118	ALPHA-CHLORDANE	2		1.48		74	
335	ENDOSULFAN I	2		1.6		80	
749	TRANS-NONACHLOR	2		1.55		77.5	
1001	FENAMIPHOS	2		.98		49	
1009	NAPROPAMIDE	2		1.75		87.5	
1016	TRICYCLAZOLE	2		.16	!	8	
78	4,4'-DDE	2		1.5		75	
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	2		1.39		69.5	
624	PYRENE	2		2.06		103	
303	DIELDRIN	2		1.86		93	
1023	CARBOXIN	2		1.82		91	
338	ENDRIN	2		1.48		74	
232	CHLOROBENZILATE	2		0.10	!	5	
336	ENDOSULFAN II	2		1.99		99.5	
77	4,4'-DDD	2		1.73		86.5	
339	ENDRIN ALDEHYDE	2		1.89		94.5	
1010	NORFLURAZON	2		1.47		73.5	
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTI	2		1.75		87.5	
337	ENDOSULFAN SULFATE	2		1.25		62.5	
79	4,4'-DDT	2		1.7		85	
1004	HEXAZINONE	2		1.33		66.5	
953	DI(2-ETHYLHEXYL)ADIPATE	2		1.87		93.5	
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	2		1.84		92	
163	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACEI	2		1.82		91	
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	2		1.7		85	
474	METHOXYCHLOR	2		1.69		84.5	
245	CHRYSENE	2		1.92		96	
185	BIS(2-ETHYLHEXYL)PHTHALATE	2		1.68		84	
1002	FENARIMOL	2		.4	!	20	
2259	CIS-PERMETHRIN	1.72		1.24		72.1	
2260	TRANS-PERMETHRIN	.28		.15		53.6	
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI	2		1.58		79	
159	BENZO(K)FLUORANTHENE	2		1.66		83	
156	BENZO(A)PYRENE	2		1.45		72.5	
1003	FLURIDONE	2		.41	!	20.5	

QC Report

QC Type	LCS	Duplicate Sample ID		Data File	5225H.D
Date Entered	24Sep2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	08Oct2001 08:48:00	Method 0	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
413	INDENO(1,2,3-CD)PYRENE	2		1.22		61	
294	DIBENZ(A,H)ANTHRACENE	2		1.17		58.5	
158	BENZO(G,H,I)PERYLENE	2		1.21		60.5	

Comments

NA

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5225H.D
Acq On : 8 Oct 01 8:48 am
Sample : LCS #003
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Oct 9 23:50 2001

Vial: 9
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.67	164	1101175	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.06	188	1061335	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.08	240	284814	5.00	ug/ml	-0.03
118) p-Terphenyl-d14	26.31	244	456605	5.00	ug/ml	-0.02
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	282913	4.27	ug/ml	0.00
100) Triphenylphosphate	28.28	326	87470	5.38	ug/ml	-0.02
114) Perylene-d12	32.76	264	168064	5.09	ug/ml	-0.02
Target Compounds						Qvalue
2) Isophorone	14.16	82	620307	1.98	ug/ml	94
4) Dichlorvos	15.78	109	362961	1.79	ug/ml#	67
5) Hexachlorocyclopentadiene	16.87	237	34187	1.06	ug/ml#	72
6) EPTC	17.15	128	222893	1.74	ug/ml#	17
7) Mevinphos	17.90	127	285643	1.67	ug/ml#	59
8) Butylate	17.96	146	133471	1.70	ug/ml#	1
9) Vernolate	18.16	128	275863	1.89	ug/ml#	45
10) Terrazole	18.22	211	49011	1.93	ug/ml#	79
11) Dimethylphthalate	18.20	163	554766	1.96	ug/ml	100
12) Pebulate	18.32	128	267156	1.80	ug/ml#	8
13) 2,6-Dinitrotoluene	18.30	165	56041	1.19	ug/ml#	71
14) Acenaphthylene	18.37	152	760382	1.87	ug/ml	100
15) Chloroneb	18.82	191	175244	1.97	ug/ml	96
16) 2-Chlorobiphenyl	18.84	188	361281	1.86	ug/ml	100
17) Pentachlorobenzene	19.02	248	70960	1.54	ug/ml#	48
18) Tebuthiuron	19.03	156	765m	0.02	ug/ml	1
19) 2,4-Dinitrotoluene	19.13	165	36615	0.94	ug/ml#	57
20) Molinate	19.27	126	348324	1.93	ug/ml#	77
21) Diethylphthalate	19.72	149	551583	1.91	ug/ml	100
22) Fluorene	19.86	166	472178	2.04	ug/ml	92
23) Propachlor	19.94	120	304144	1.99	ug/ml#	3
24) Ethoprop	20.25	158	119803	1.86	ug/ml#	27
25) Cycloate	20.29	154	231393	1.86	ug/ml#	1
26) Chlorpropham	20.47	127	145962	1.81	ug/ml#	54
27) Trifluralin	20.50	306	39969	1.23	ug/ml	89
28) alpha-BHC	21.04	181	77863	1.73	ug/ml#	79
29) 2,3-Dichlorobiphenyl	21.07	222	198294	1.83	ug/ml#	52
31) Hexachlorobenzene	21.12	284	90069	1.50	ug/ml	87
32) Atraton	21.28	196	9721	0.27	ug/ml#	14
33) Prometon	21.40	210	24725	0.60	ug/ml#	80
34) Simazine	21.41	201	48722	1.59	ug/ml#	88
35) Atrazine	21.50	200	178875	3.64	ug/ml	100
36) beta-BHC	21.55	183	61500	1.96	ug/ml	99
37) Propazine	21.57	214	89422	1.83	ug/ml#	82
38) Pentachlorophenol	21.62	266	738m	0.06	ug/ml	84
39) g-BHC (Lindane)	21.75	181	69925	1.79	ug/ml#	79
40) Terbufos	21.82	231	84138	1.58	ug/ml#	1
41) Pronamide	21.87	173	133536	1.64	ug/ml#	86
42) Diazinon	21.91	137	113953	1.72	ug/ml#	87
43) Phenanthrene	22.11	178	482099	1.85	ug/ml	94
44) Chlorothalonil	22.08	266	76959	2.18	ug/ml#	82
45) Disulfoton	22.18	88	347520	1.86	ug/ml#	42
46) Anthracene	22.24	178	405365	1.69	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5225H.D
Acq On : 8 Oct 01 8:48 am
Sample : LCS #003
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Oct 9 23:50 2001

Vial: 9
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Methyl paraoxon	22.18	109	52769	1.33	ug/ml#	43
48)	Terbacil	22.18	161	82404	1.50	ug/ml#	82
49)	delta-BHC	22.34	181	52009	1.83	ug/ml#	75
50)	Trichlorobiphenyl	22.67	256	106887	1.55	ug/ml	100
51)	Acetochlor	22.93	146	88508m	2.19	ug/ml	53
52)	Metribuzin	22.96	198	40132	1.21	ug/ml	100
53)	Alachlor	23.12	160	208750	3.73	ug/ml	83
54)	Simetryn	23.20	213	39510m	0.82	ug/ml	94
55)	Ametryn	23.28	227	49259	1.18	ug/ml#	76
56)	Heptachlor	23.34	100	103831	1.34	ug/ml#	29
57)	Prometryn	23.33	241	70610	1.48	ug/ml#	77
58)	Terbutryn	23.62	226	44191	1.01	ug/ml#	84
59)	Di-n-butyl phthalate	23.73	149	842039	1.71	ug/ml	100
60)	Bromacil	23.67	205	60340m	1.64	ug/ml	77
61)	Tetrachlorobiphenyl	23.89	292	63201	1.46	ug/ml	100
62)	Aldrin	24.13	66	85483	1.42	ug/ml#	62
63)	Metolachlor	23.95	162	280962	1.76	ug/ml	91
64)	Chlorpyrifos	23.98	314	16574	1.70	ug/ml#	1
65)	DCPA	24.09	301	71767	1.67	ug/ml#	87
66)	Cyanazine	24.07	212	5286	1.53	ug/ml#	39
67)	Triadimefon	24.22	57	93389	1.29	ug/ml#	39
68)	Diphenamid	24.48	167	188462	1.85	ug/ml#	30
69)	MGK 264-A	24.50	111	54227	0.91	ug/ml#	75
70)	Pendimethalin	24.69	252	33814	1.19	ug/ml#	73
71)	MGK 264-B	24.78	164	49971	0.85	ug/ml#	70
72)	Heptachlor epoxide	24.97	81	64868	1.59	ug/ml#	60
73)	Pentachlorobiphenyl	25.01	326	45650	1.52	ug/ml	100
74)	g-Chlordane	25.48	375	31476	1.31	ug/ml	100
75)	Stirofos	25.49	109	102100	1.65	ug/ml#	53
76)	Butachlor	25.55	176	80633	1.67	ug/ml	100
77)	a-Chlordane	25.77	373	31759	1.48	ug/ml#	80
78)	Endosulfan I	25.78	195	24126	1.60	ug/ml#	71
79)	trans-Nonachlor	25.82	409	37379	1.55	ug/ml#	69
80)	Fenamiphos	25.79	303	8089	0.98	ug/ml#	15
81)	Napropamide	25.88	72	204817	1.75	ug/ml#	68
82)	Tricyclazole	26.30	189	1440m	0.16	ug/ml	1
83)	p,p'-DDE	26.20	246	59638	1.50	ug/ml	94
84)	Hexachlorobiphenyl	26.33	360	39899	1.39	ug/ml#	41
86)	Pyrene	25.76	202	320182	2.06	ug/ml#	76
87)	Dieldrin	26.36	79	114564	1.86	ug/ml#	57
88)	Carboxin	26.38	143	97787	1.82	ug/ml#	49
89)	Endrin	26.83	81	18228	1.48	ug/ml#	35
90)	Chlorobenzilate	26.83	139	4980m	0.10	ug/ml	1
91)	Endosulfan II	27.07	195	12453	1.99	ug/ml#	19
92)	p,p'-DDD	27.10	235	87071	1.73	ug/ml#	90
93)	Endrin aldehyde	27.37	67	34002	1.89	ug/ml#	39
94)	Norflurazon	27.67	145	25285	1.47	ug/ml#	73
95)	Butylbenzylphthalate	27.77	149	155211	1.75	ug/ml	94
96)	Endosulfan sulfate	27.86	272	5922	1.25	ug/ml#	1
97)	p,p'-DDT	27.93	235	52735	1.70	ug/ml#	82
98)	Hexazinone	28.00	171	54509m	1.33	ug/ml	82
99)	Di(2-ethylhexyl)adipate	28.11	129	183247	1.87	ug/ml#	64
101)	Heptachlorobiphenyl	28.97	394	22762	1.84	ug/ml#	8
102)	Benz(a)anthracene	29.06	228	153791	1.82	ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HDATA~1\H100801\5225H.D
Acq On : 8 Oct 01 8:48 am
Sample : LCS #003
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Oct 9 23:50 2001

Vial: 9
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103)	Octachlorobiphenyl	29.07	430	31086	1.70 ug/ml#	74
104)	Methoxychlor	29.08	227	80234	1.69 ug/ml#	65
105)	Chrysene	29.15	228	132058	1.92 ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.46	149	198469	1.68 ug/ml	96
107)	Fenarimol	30.41	139	4664m	0.40 ug/ml	1
108)	cis-Permethrin	30.97	183	121168	1.24 ug/ml#	73
109)	trans-Permethrin	31.11	183	13730	0.15 ug/ml#	68
110)	Benzo(b)fluoranthene	31.85	252	80490	1.58 ug/ml#	73
111)	Benzo(k)fluoranthene	31.93	252	84665	1.66 ug/ml#	83
112)	Benzo(a)pyrene	32.63	252	65867	1.45 ug/ml	100
113)	Fluridone	32.70	328	3634m	0.41 ug/ml	77
115)	Indeno(1,2,3-cd)pyrene	35.48	276	48789m	1.22 ug/ml	63
116)	Dibenz(a,h)anthracene	35.59	278	36516m	1.17 ug/ml	12
117)	Benzo(g,h,i)perylene	36.26	276	41394m	1.21 ug/ml	92

(#) = qualifier out of range (m) = manual integration
5225H.D DRINKWI.M Tue Oct 09 23:51:04 2001

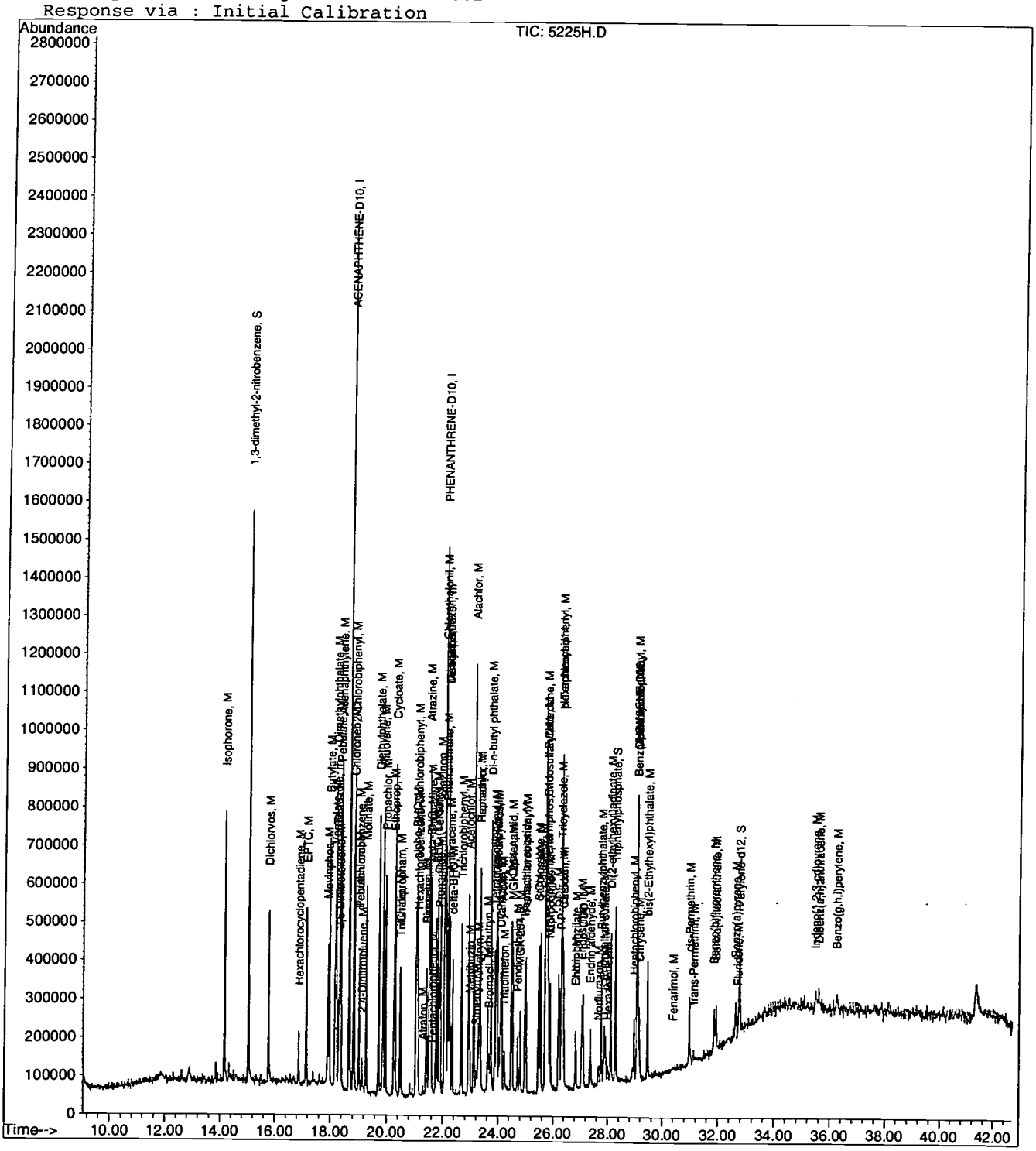
Quantitation Report

Data File : D:\HDATA~1\H100801\5225H.D
Acq On : 8 Oct 01 8:48 am
Sample : LCS #003
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Oct 9 23:50 2001

Vial: 9
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration



R420950 **Heritage Environmental Services** A567128

GC/MS SVOA

Method : EPA 525.2 REV. 2.0

Sample Description : DK27547

Submitter : IDEM - OFFICE OF WATER MANAGEM

Instrument # : 160 Channel # : 1

Test Code O512.0.0

Analyst #: 2447 J. MINNIEAR, II

File : 5226H.D Date/Time : 08Oct2001 09:39:00

Dilution Factor 1.04

Init Weight/Vol 960 mL Final Volume 1.0 mL

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
78-59-1	431	ISOPHORONE		BDL	0.1	UG/L	
62-73-7	976	DICHLORVOS		BDL	0.1	UG/L	
77-47-4	399	HEXACHLOROCYCLOPENTADIENE		BDL	0.1	UG/L	
759-94-4	346	EPTC (ERADICANE)		BDL	0.1	UG/L	
7786-34-7	1007	MEVINPHOS		BDL	0.1	UG/L	
2008-41-5	201	BUTYLATE		BDL	0.1	UG/L	
1929-77-7	766	VERNOLATE		BDL	0.1	UG/L	
2593-15-9	2258	ETRIDIAZOLE		BDL	0.1	UG/L	
131-11-3	310	DIMETHYLPHTHALATE		BDL	0.1	UG/L	
1114-71-2	571	PEBULATE (TILLAM)		BDL	0.1	UG/L	
606-20-2	50	2,6-DINITROTOLUENE		BDL	0.1	UG/L	
208-96-8	98	ACENAPHTHYLENE		BDL	0.1	UG/L	
2675-77-6	2257	CHLORNEB		BDL	0.1	UG/L	
2051-60-7	53	2-CHLOROBIPHENYL (1)		BDL	0.1	UG/L	
608-93-5	573	PENTACHLOROBENZENE		BDL	0.1	UG/L	
34014-18-1	821	TEBUTHIURON		BDL	0.52	UG/L	
121-14-2	48	2,4-DINITROTOLUENE		BDL	0.1	UG/L	
2212-67-1	482	MOLINATE		BDL	0.1	UG/L	
84-66-2	306	DIETHYLPHTHALATE		BDL	0.1	UG/L	
86-73-7	366	FLUORENE		BDL	0.1	UG/L	
1918-16-7	621	PROPACHLOR		BDL	0.1	UG/L	
13194-48-4	1000	ETHOPROP		BDL	0.1	UG/L	
1134-23-2	996	CYCLOATE		BDL	0.1	UG/L	
101-21-3	978	CHLOROPROPHAM		BDL	0.1	UG/L	
1582-09-8	753	TRIFLURALIN		BDL	0.1	UG/L	
319-84-6	117	ALPHA-BHC		BDL	0.1	UG/L	
16605-91-7	952	2,3-DICHLOROBIPHENYL (5)		BDL	0.1	UG/L	
118-74-1	397	HEXACHLOROBENZENE		BDL	0.1	UG/L	
1610-17-9	994	ATRATON		BDL	0.52	UG/L	
1610-18-0	619	PROMETON (PRAMITOL)		BDL	0.52	UG/L	
122-34-9	1819	SIMAZINE		BDL	0.1	UG/L	
1912-24-9	143	ATRAZINE		BDL	0.1	UG/L	
319-85-7	168	BETA-BHC		BDL	0.1	UG/L	
139-40-2	622	PROPAZINE (MILOGARD)		BDL	0.1	UG/L	
87-86-5	577	PENTACHLOROPHENOL		BDL	2.08	UG/L	
58-89-9	380	GAMMA-BHC (LINDANE)		BDL	0.1	UG/L	
13071-79-9	700	TERBUFOS (COUNTER)		BDL	0.1	UG/L	
23950-58-5	1025	PRONAMIDE		BDL	0.1	UG/L	
333-41-5	911	DIAZINON		BDL	0.1	UG/L	
85-01-8	597	PHENANTHRENE		BDL	0.1	UG/L	
1897-45-6	1030	CHLOROTHALONIL (BRAVO)		BDL	0.1	UG/L	
298-04-4	328	DISULFOTON		BDL	0.1	UG/L	
120-12-7	128	ANTHRACENE		BDL	0.1	UG/L	
950-35-6	1006	METHYLPARAOXON		BDL	0.52	UG/L	
5902-51-2	1013	TERBACIL		BDL	0.1	UG/L	
319-86-8	290	DELTA-BHC		BDL	0.1	UG/L	

√ LAS 10.10.1

R420950

Heritage Environmental Services

GC/MS SVOA

A567128

Method : EPA 525.2 REV. 2.0
Sample Description : DK27547
Submitter : IDEM - OFFICE OF WATER MANAGEM
Instrument # : 160 Channel # : 1

Test Code O512.0.0
Analyst #: 2447 J. MINNIEAR, II
File : 5226H.D Date/Time : 08Oct2001 09:39:00
Dilution Factor 1.04

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
15862-07-4	959	2,4,5-TRICHLOROBIPHENYL		BDL	0.1	UG/L	
34256-82-1	3473	ACETOCHLOR		BDL	0.1	UG/L	
21087-64-9	2111	METRIBUZIN		BDL	0.1	UG/L	
15972-60-8	110	ALACHLOR		BDL	0.1	UG/L	
1014-70-6	1011	SIMETRYN		BDL	0.1	UG/L	
834-12-8	993	AMETRYN		BDL	0.1	UG/L	
76-44-8	391	HEPTACHLOR		BDL	0.1	UG/L	
7287-19-6	620	PROMETRYN		BDL	0.1	UG/L	
886-50-0	1014	TERBUTRYN		BDL	0.1	UG/L	
84-74-2	329	DI-N-BUTYLPHTHALATE		BDL	0.1	UG/L	
314-40-9	1021	BROMACIL		BDL	0.1	UG/L	
2437-79-8	958	2,2',4,4'-TETRACHLOROBIPHENYL		BDL	0.52	UG/L	
309-00-2	111	ALDRIN		BDL	0.1	UG/L	
51218-45-2	466	METOLACHLOR		BDL	0.1	UG/L	
2921-88-2	238	CHLOROPYRIFOS (DURSBAN)		BDL	0.1	UG/L	
1861-32-1	912	DCPA (DACTHAL)		BDL	0.1	UG/L	
21725-46-2	268	CYANAZINE (BLADEX)		BDL	0.1	UG/L	
43121-43-3	1015	TRIADIMEFON		BDL	0.1	UG/L	
957-51-7	997	DIPHENAMID		BDL	0.1	UG/L	
113-48-4	1008	MGK 264		BDL	0.1	UG/L	
40487-42-1	572	PENDIMETHALIN		BDL	0.1	UG/L	
1024-57-3	394	HEPTACHLOR EPOXIDE		BDL	0.1	UG/L	
60233-25-2	957	2,2',3',4,6-PENTACHLOROBIPHENYL		BDL	0.1	UG/L	
5103-74-2	381	GAMMA-CHLORDANE		BDL	0.1	UG/L	
22248-79-9	1012	STIROFOS		BDL	0.1	UG/L	
23184-66-9	995	BUTACHLOR		BDL	0.1	UG/L	
5103-71-9	118	ALPHA-CHLORDANE		BDL	0.1	UG/L	
959-98-8	335	ENDOSULFAN I		BDL	0.1	UG/L	
39765-80-5	749	TRANS-NONACHLOR		BDL	0.1	UG/L	
22224-92-6	1001	FENAMIPHOS		BDL	0.52	UG/L	
15299-99-7	1009	NAPROPAMIDE		BDL	0.1	UG/L	
41814-78-2	1016	TRICYCLAZOLE		BDL	0.1	UG/L	
72-55-9	78	4,4'-DDE		BDL	0.1	UG/L	
60145-22-4	955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL		BDL	0.1	UG/L	
129-00-0	624	PYRENE		BDL	0.1	UG/L	
60-57-1	303	DIELDRIN		BDL	0.1	UG/L	
5234-68-4	1023	CARBOXIN		BDL	0.1	UG/L	
72-20-8	338	ENDRIN		BDL	0.1	UG/L	
510-15-6	232	CHLOROBENZILATE		BDL	0.1	UG/L	
33213-65-9	336	ENDOSULFAN II		BDL	0.52	UG/L	
72-54-8	77	4,4'-DDD		BDL	0.1	UG/L	
7421-93-4	339	ENDRIN ALDEHYDE		BDL	0.52	UG/L	
27314-13-2	1010	NORFLURAZON		BDL	0.52	UG/L	
85-68-7	202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTH/		BDL	0.1	UG/L	
1031-07-8	337	ENDOSULFAN SULFATE		BDL	0.1	UG/L	
50-29-3	79	4,4'-DDT		BDL	0.1	UG/L	
51235-04-2	1004	HEXAZINONE		BDL	0.1	UG/L	
103-23-1	953	DI(2-ETHYLHEXYL)ADIPATE		BDL	0.1	UG/L	

R420950 **Heritage Environmental Services** A567128

GC/MS SVOA

Method : EPA 525.2 REV. 2.0 **Test Code O512.0.0**

Sample Description : DK27547 Analyst #: 2447 J. MINNIEAR, II

Submitter : IDEM - OFFICE OF WATER MANAGEM File : 5226H.D Date/Time : 08Oct2001 09:39:00

Instrument # : 160 Channel # : 1 Dilution Factor 1.04

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
52663-71-5	954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL		BDL	0.1	UG/L	
56-55-3	163	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENI		BDL	0.1	UG/L	
40186-71-8	956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL		BDL	0.1	UG/L	
72-43-5	474	METHOXYCHLOR		BDL	0.1	UG/L	
218-01-9	245	CHRYSENE		BDL	0.1	UG/L	
117-81-7	185	BIS(2-ETHYLHEXYL)PHTHALATE	.54		0.1	UG/L	
60168-88-9	1002	FENARIMOL		BDL	0.52	UG/L	
54774-45-7	2259	CIS-PERMETHRIN		BDL	0.1	UG/L	
51877-74-8	2260	TRANS-PERMETHRIN		BDL	0.1	UG/L	
205-99-2	157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANT		BDL	0.1	UG/L	
207-08-9	159	BENZO(K)FLUORANTHENE		BDL	0.1	UG/L	
50-32-8	156	BENZO(A)PYRENE		BDL	0.1	UG/L	
59756-60-4	1003	FLURIDONE		BDL	0.1	UG/L	
193-39-5	413	INDENO(1,2,3-CD)PYRENE		BDL	0.1	UG/L	
53-70-3	294	DIBENZ(A,H)ANTHRACENE		BDL	0.1	UG/L	
191-24-2	158	BENZO(G,H,I)PERYLENE		BDL	0.1	UG/L	
NA	1804	...					
NA	972	----------					
NA	971	SURROGATE RECOVERY					
81-20-9	2949	2-NITRO-M-XYLENE	92			% REC(	
115-86-6	2894	TRIPHENYL ESTER PHOSPHORIC ACID	82			% REC(	
1520-96-3	3474	PERYLENE-D12	102			% REC(	
NA	1804	...					
TIC	1131	TENTATIVELY IDENTIFIED COMPOUNDS					
NA	972	----------					
NA	759	UNKNOWN HYDROCARBON	0.53	J		UG/L	13.09
NA	759	UNKNOWN HYDROCARBON	0.83	J		UG/L	13.83
NA	759	UNKNOWN HYDROCARBON	0.52	J		UG/L	16.16
NA	759	UNKNOWN HYDROCARBON	0.6	J		UG/L	16.71
544-76-3	1472	HEXADECANE	0.55	J		UG/L	18.59
NA	759	UNKNOWN HYDROCARBON	0.84	J		UG/L	19.08
NA	759	UNKNOWN HYDROCARBON	0.65	J		UG/L	20.91
NA	759	UNKNOWN HYDROCARBON	0.58	J		UG/L	24.19
NA	759	UNKNOWN HYDROCARBON	0.87	J		UG/L	25.24
NA	758	UNKNOWN	6.6	J		UG/L	25.71
NA	759	UNKNOWN HYDROCARBON	0.67	J		UG/L	27.26
NA	758	UNKNOWN	0.69	J		UG/L	34.7

Test Comments

Sample failed method internal standard area criteria. Sample reanalyzed with no improvement.

RQL

BDL Below Detection Limit

J Estimated

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A567128

Lab Name: HERITAGE Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A567128

Sample wt/vol: 960 (g/ml) ML Lab File ID: 5226H.D

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/08/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 12

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.09	0.53	J
2.	unknown hydrocarbon	13.83	0.83	J
3.	unknown hydrocarbon	16.16	~~0.65~~ .52	J
4.	unknown hydrocarbon	16.71	0.6	J
5. 000544-76-3	Hexadecane	18.59	0.55	JN
6.	unknown hydrocarbon	19.08	0.84	J
7.	unknown hydrocarbon	20.91	0.65	J
8	unknown ~~(32)~~ hydrocarbon	24.19	0.58	J
9	unknown ~~(31)~~ hydrocarbon	25.24	0.87	J
10.	unknown	25.71	6.3	J
11.	unknown hydrocarbon	27.26	0.67	J
12.	unknown	34.70	0.69	J

Quantitation Report (Not Reviewed)

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: rteint.p
Quant Time: Oct 8 19:54 2001

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.67	164	786859	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.05	188	733512	5.00 ug/ml	-0.02
85) CHRYSENE-D12	29.09	240	184205	5.00 ug/ml	-0.02
118) p-Terphenyl-d14	26.31	244	268092	5.00 ug/ml	-0.02
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.04	134	218648	4.62 ug/ml	0.00
100) Triphenylphosphate	28.27	326	43188	4.10 ug/ml	-0.03
114) Perylene-d12	32.76	264	109125	5.11 ug/ml	-0.02
Target Compounds					Qvalue
13) 2,6-Dinitrotoluene	18.67	165	101083	3.01 ug/ml#	34
18) Tebuthiuron	18.67	156	37907	1.62 ug/ml#	62
19) 2,4-Dinitrotoluene	18.67	165	77819	2.78 ug/ml#	39
93) Endrin aldehyde	27.36	67	2244	0.19 ug/ml#	29
106) bis(2-Ethylhexyl)phthalate	29.46	149	39498	0.52 ug/ml#	92
113) Fluridone	32.69	328	776	0.14 ug/ml#	51

(#) = qualifier out of range (m) = manual integration
5226H.D DRINKWI.M Mon Oct 08 19:54:13 2001

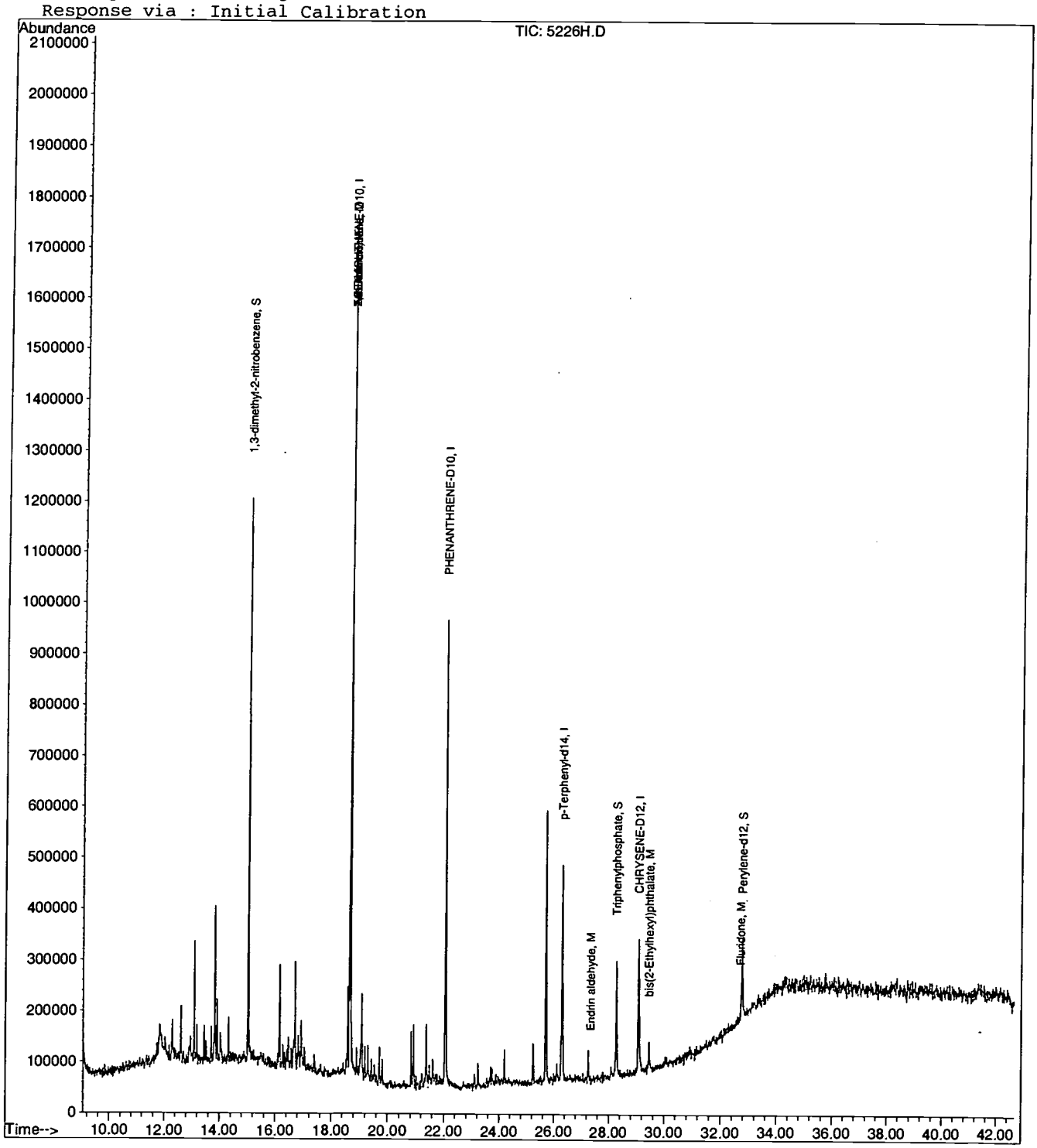
Quantitation Report

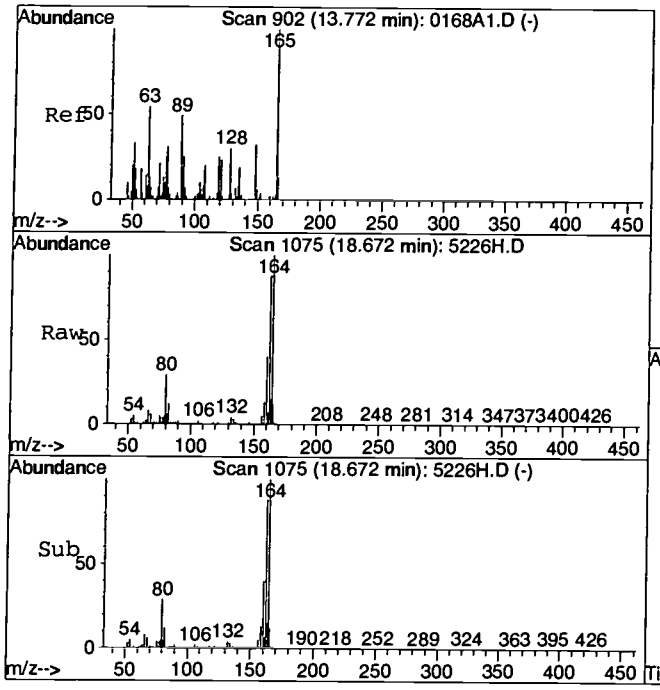
Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: rteint.p
Quant Time: Oct 8 19:54 2001

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Tue Aug 21 21:28:28 2001
Response via : Initial Calibration

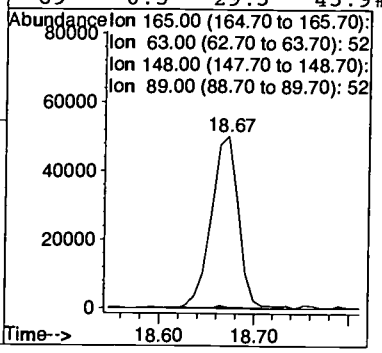




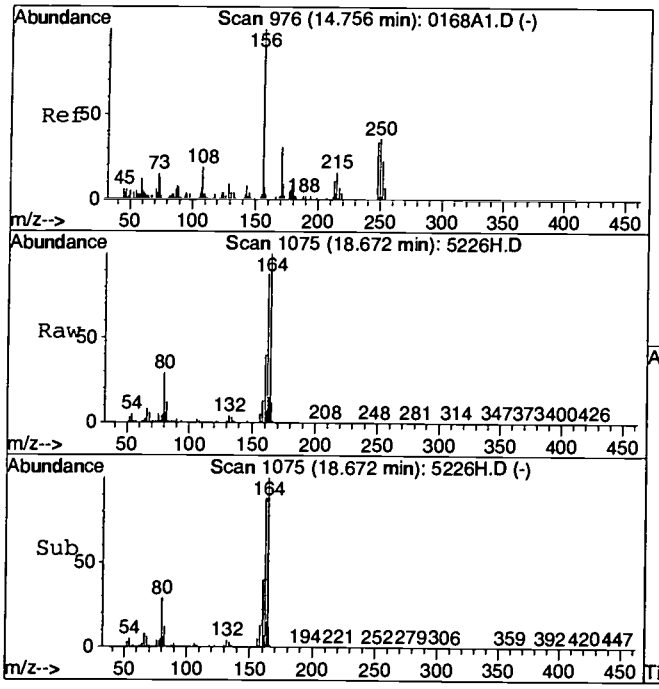
#13
2,6-Dinitrotoluene
Concen: 3.01 ug/ml
RT: 18.67 min Scan# 1075
Delta R.T. 0.36 min
Lab File: 5226H.D
Acq: 8 Oct 01 9:39 am

Tgt Ion:165 Resp: 101083

Ion	Ratio	Lower	Upper
165	100		
63	0.6	40.7	61.1#
148	0.3	29.4	44.2#
89	0.3	29.3	43.9#



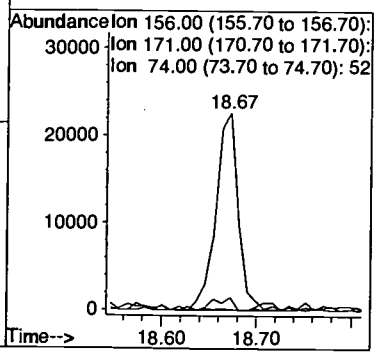
Badfit Jm



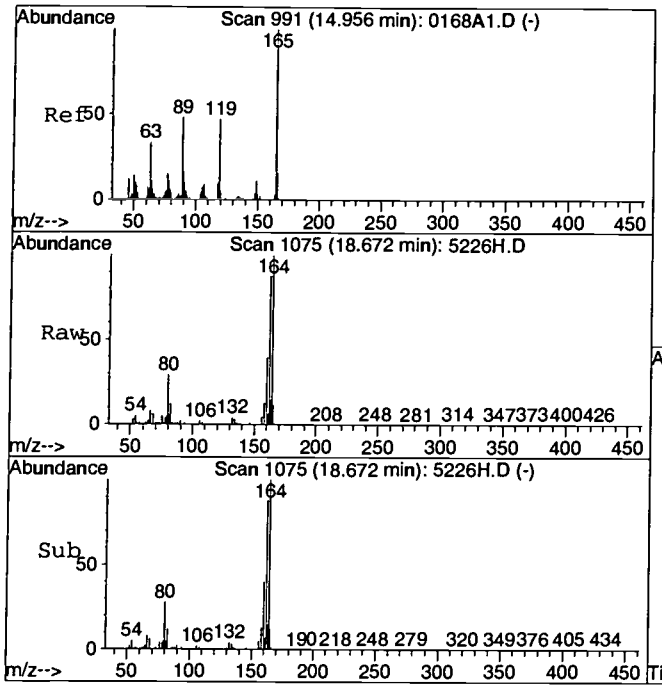
#18
Tebuthiuron
Concen: 1.62 ug/ml
RT: 18.67 min Scan# 1075
Delta R.T. -0.35 min
Lab File: 5226H.D
Acq: 8 Oct 01 9:39 am

Tgt Ion:156 Resp: 37907

Ion	Ratio	Lower	Upper
156	100		
171	0.4	19.0	28.6#
74	5.5	12.2	18.2#



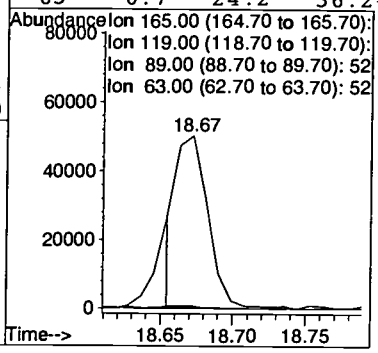
Badfit Jm



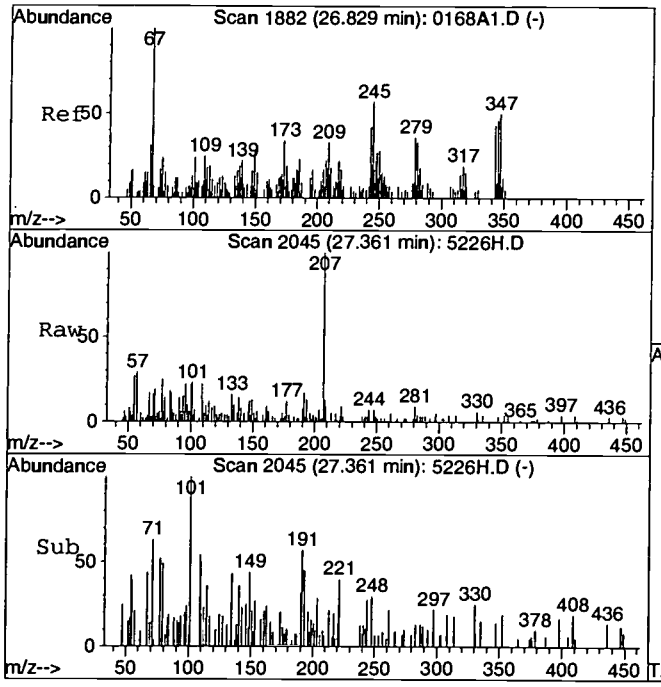
#19
2,4-Dinitrotoluene
Concen: 2.78 ug/ml
RT: 18.67 min Scan# 1075
Delta R.T. -0.47 min
Lab File: 5226H.D
Acq: 8 Oct 01 9:39 am

Tgt Ion:165 Resp: 77819

Ion	Ratio	Lower	Upper
165	100		
119	1.4	36.4	54.6#
89	0.4	27.4	41.2#
63	0.7	24.2	36.2#



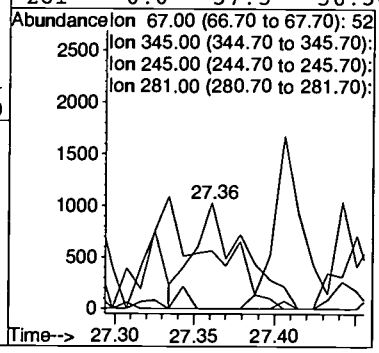
Bad Hit Jim



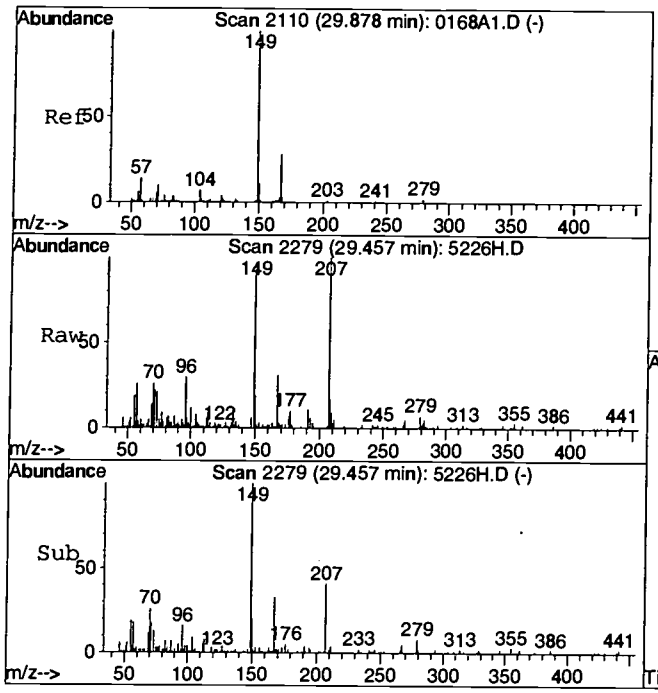
#93
Endrin aldehyde
Concen: 0.19 ug/ml
RT: 27.36 min Scan# 2045
Delta R.T. -0.03 min
Lab File: 5226H.D
Acq: 8 Oct 01 9:39 am

Tgt Ion: 67 Resp: 2244

Ion	Ratio	Lower	Upper
67	100		
345	9.0	51.1	76.7#
245	0.0	39.2	58.8#
281	0.0	37.5	56.3#



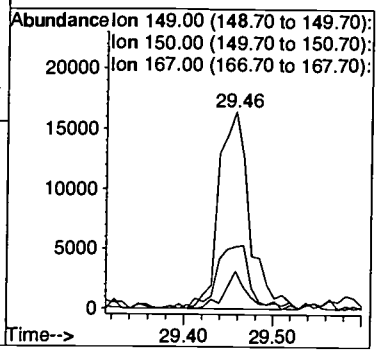
Bad Hit Jim



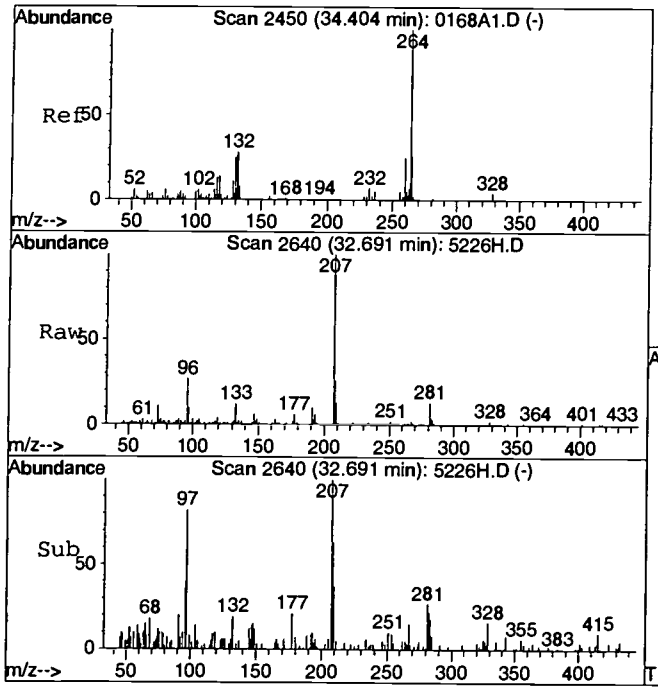
#106
bis(2-Ethylhexyl)phthalate
Concen: 0.52 ug/ml
RT: 29.46 min Scan# 2279
Delta R.T. -0.02 min
Lab File: 5226H.D
Acq: 8 Oct 01 9:39 am

Tgt Ion:149 Resp: 39498

Ion	Ratio	Lower	Upper
149	100		
150	15.4	7.7	11.5#
167	35.8	26.2	39.2



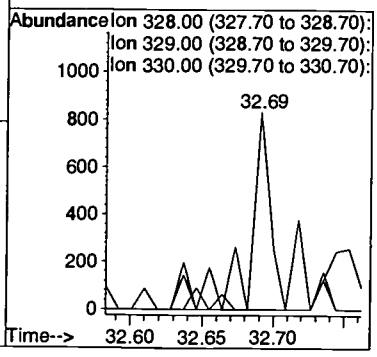
✓ JZM



#113
Fluridone
Concen: 0.14 ug/ml
RT: 32.69 min Scan# 2640
Delta R.T. 0.06 min
Lab File: 5226H.D
Acq: 8 Oct 01 9:39 am

Tgt Ion:328 Resp: 776

Ion	Ratio	Lower	Upper
328	100		
329	0.0	25.4	38.2#
330	4.5	4.5	6.7



Badfit JZM

LSC Area Percent Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

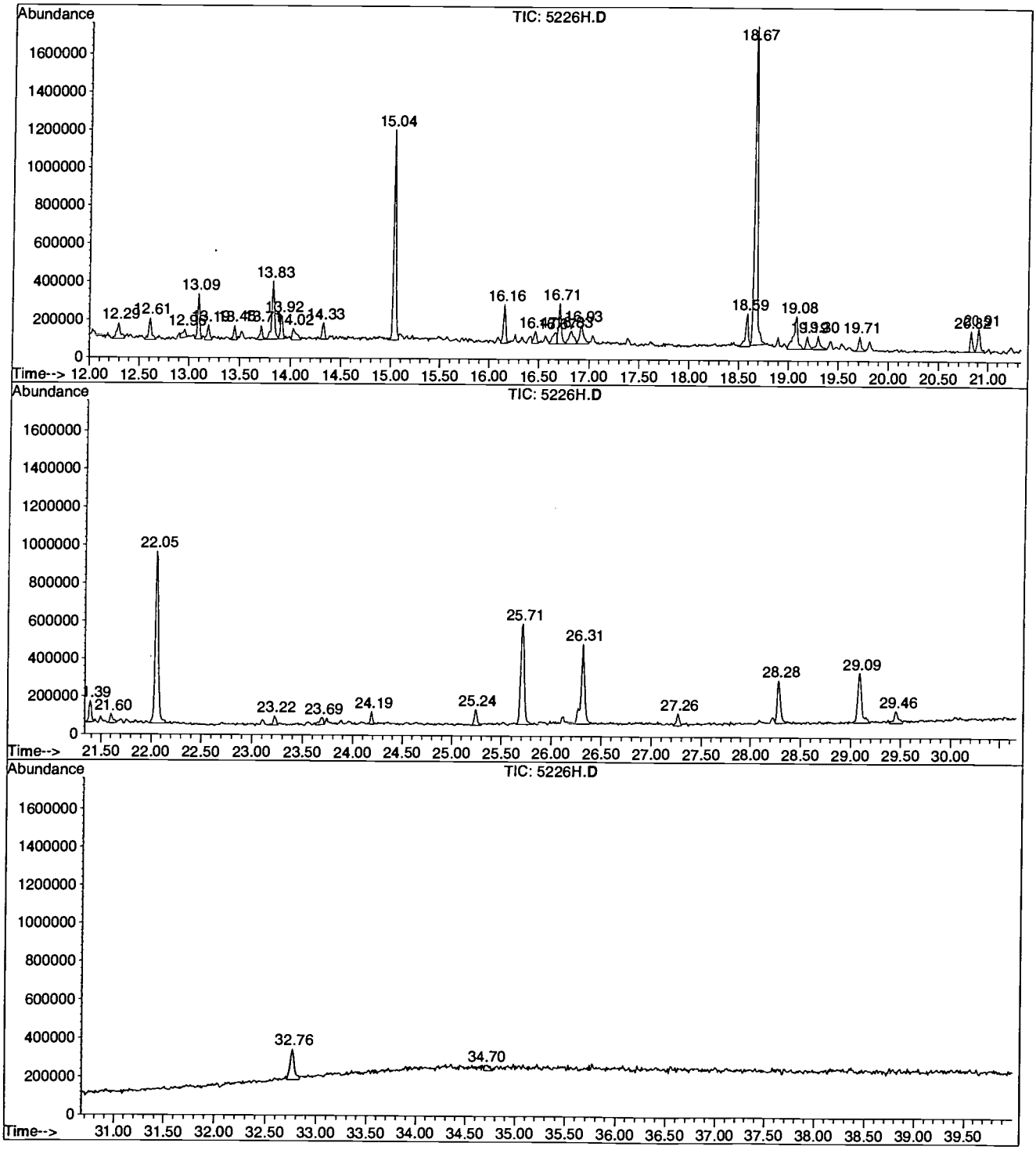
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	raw area	corr. area	corr. % max.	% of total
1	12.294	27	34	41	rBV9	82959	1114366	230698	7.02%	1.281%
2	12.608	63	69	75	rVB3	114488	958943	224004	6.82%	1.244%
3	12.957	103	108	111	rVB7	43154	630857	98874	3.01%	0.549%
4	13.092	119	123	127	rBV	237579	835272	332934	10.13%	1.849%
5	13.190	130	134	138	rVB2	79464	630765	133831	4.07%	0.743%
6	13.450	158	163	166	rBV4	77038	616846	125638	3.82%	0.698%
7	13.710	187	192	197	rBV5	74370	744035	130148	3.96%	0.723%
8	13.826	197	205	211	rVV	306261	1357060	521919	15.88%	2.898%
9	13.916	211	215	218	rVB2	121487	645785	193788	5.90%	1.076%
10	14.023	225	227	236	rVB3	61036	918046	173305	5.27%	0.962%
11	14.328	256	261	266	rVB2	87489	751890	144811	4.41%	0.804%
12	15.035	333	340	345	rBV	1108651	2474019	1733540	52.76%	9.627%
13	16.155	461	465	469	rVV	206144	815307	331075	10.08%	1.839%
14	16.469	496	500	503	rVV3	64995	548265	126821	3.86%	0.704%
15	16.666	515	522	524	rVV7	58924	709988	188039	5.72%	1.044%
16	16.710	524	527	534	rVV2	212928	1134979	376991	11.47%	2.093%
17	16.827	534	540	546	rVV4	68112	944503	223660	6.81%	1.242%
18	16.925	546	551	559	rVV3	98331	1047683	267085	8.13%	1.483%
19	18.592	726	737	740	rBV	173897	1126849	347807	10.59%	1.931%
20	18.672	740	746	758	rVB	1673462	4334630	3285673	100.00%	18.246%
21	19.084	781	792	800	rVB3	171924	1579644	530050	16.13%	2.943%
22	19.192	800	804	809	rVV6	68240	594465	129564	3.94%	0.719%
23	19.299	809	816	825	rVB4	71267	1028038	177158	5.39%	0.984%
24	19.711	857	862	869	rBV2	77277	742480	155694	4.74%	0.865%
25	20.822	981	986	991	rBV	108075	646343	172539	5.25%	0.958%
26	20.912	991	996	1003	rVB2	121217	885185	257994	7.85%	1.433%
27	21.386	1044	1049	1053	rVB2	113283	653326	197995	6.03%	1.099%
28	21.601	1069	1073	1079	rBV5	50132	612773	114122	3.47%	0.634%
29	22.049	1115	1123	1137	rBV2	910770	3128562	2056356	62.59%	11.419%
30	23.223	1246	1254	1258	rBV7	49273	671445	100139	3.05%	0.556%
31	23.688	1299	1306	1309	rVV4	38335	591645	100416	3.06%	0.558%
32	24.190	1356	1362	1368	rBV2	68062	716520	120268	3.66%	0.668%
33	25.238	1474	1479	1486	rBV	82859	756533	179458	5.46%	0.997%
34	25.713	1525	1532	1544	rVB2	533186	2265374	1308683	39.83%	7.267%
35	26.313	1590	1599	1607	rVB2	422228	1934906	1036636	31.55%	5.757%
36	27.262	1700	1705	1709	rBV	66178	600401	133964	4.08%	0.744%
37	28.284	1815	1819	1827	rVB2	223648	1256028	493635	15.02%	2.741%
38	29.090	1900	1909	1921	rBV	262481	1923619	759094	23.10%	4.215%
39	29.457	1942	1950	1957	rBV7	64235	1074922	209594	6.38%	1.164%
40	32.762	2313	2319	2327	rBV3	160485	1690627	482720	14.69%	2.681%
41	34.697	2534	2535	2544	rBV7	28994	1151391	101014	3.07%	0.561%

Sum of corrected areas: 18007734

LSC Report - Integrated Chromatogram

File : D:\HDATA~1\H100801\5226H.D
Operator : JCM
Acquired : 8 Oct 01 9:39 am using AcqMethod DRINKW
Instrument : GC/MS Ins
Sample Name: A567128
Misc Info : 960ML-1ML
Vial Number: 10
Quant File :DRINKWI.RES (RTE Integrator)



5226H.D DRINKWI.M Mon Oct 08 20:26:41 2001

Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

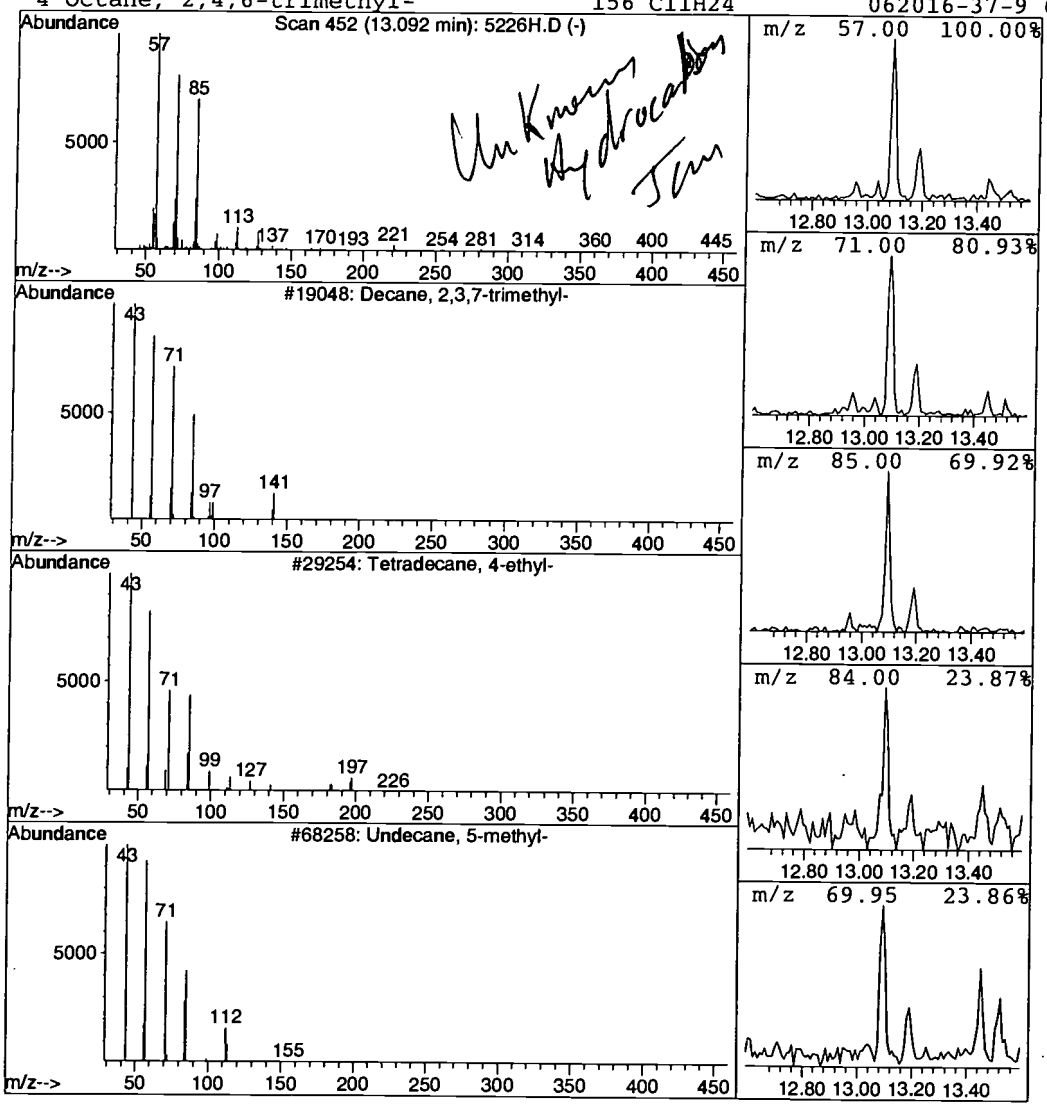
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 1 Decane, 2,3,7-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	0.51 ug/ml	332934	ACENAPHTHENE-D10	18.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,3,7-trimethyl-	184	C13H28	062238-13-5	72
2	Tetradecane, 4-ethyl-	226	C16H34	055045-14-2	72
3	Undecane, 5-methyl-	170	C12H26	001632-70-8	64
4	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	64



Unknown Hydrocarbon
JCM

Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

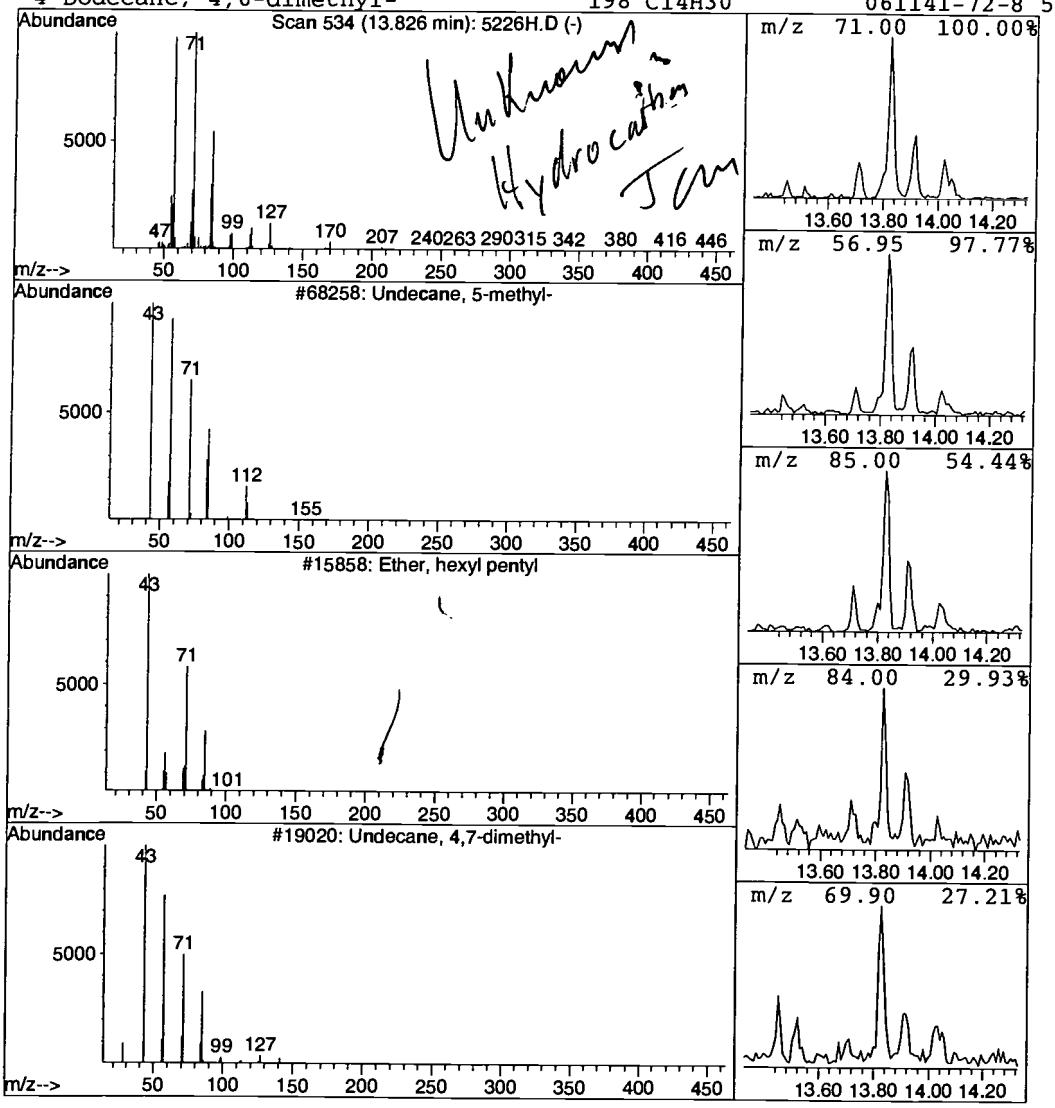
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 2 Undecane, 5-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	0.79 ug/ml	521919	ACENAPHTHENE-D10	18.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5-methyl-	170	C12H26	001632-70-8	72
2	Ether, hexyl pentyl	172	C11H24O	032357-83-8	64
3	Undecane, 4,7-dimethyl-	184	C13H28	017301-32-5	59
4	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	58



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

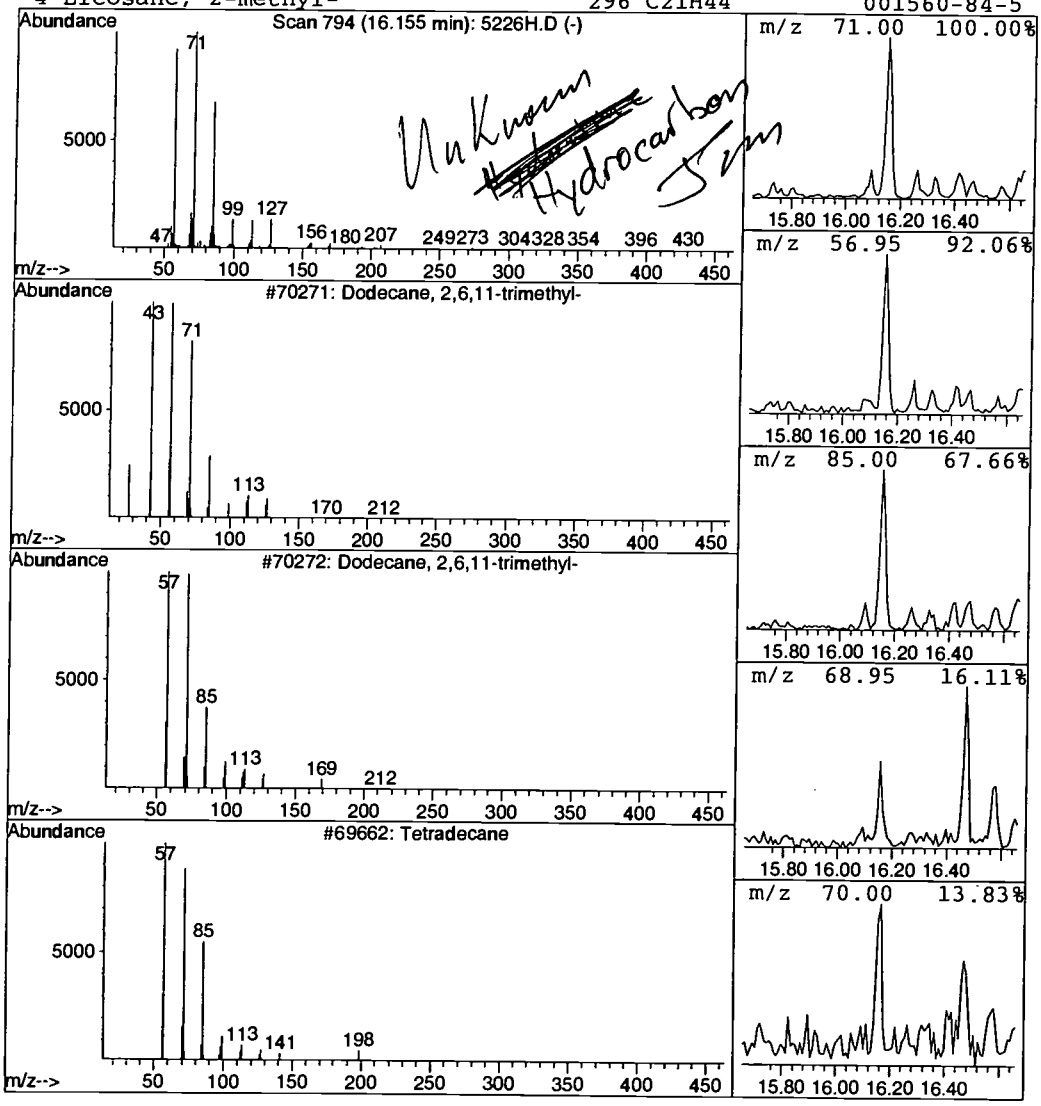
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 3 Dodecane, 2,6,11-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.16	0.50 ug/ml	331075	ACENAPHTHENE-D10	18.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	83
2	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	80
3	Tetradecane	198	C14H30	000629-59-4	78
4	Eicosane, 2-methyl-	296	C21H44	001560-84-5	72



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

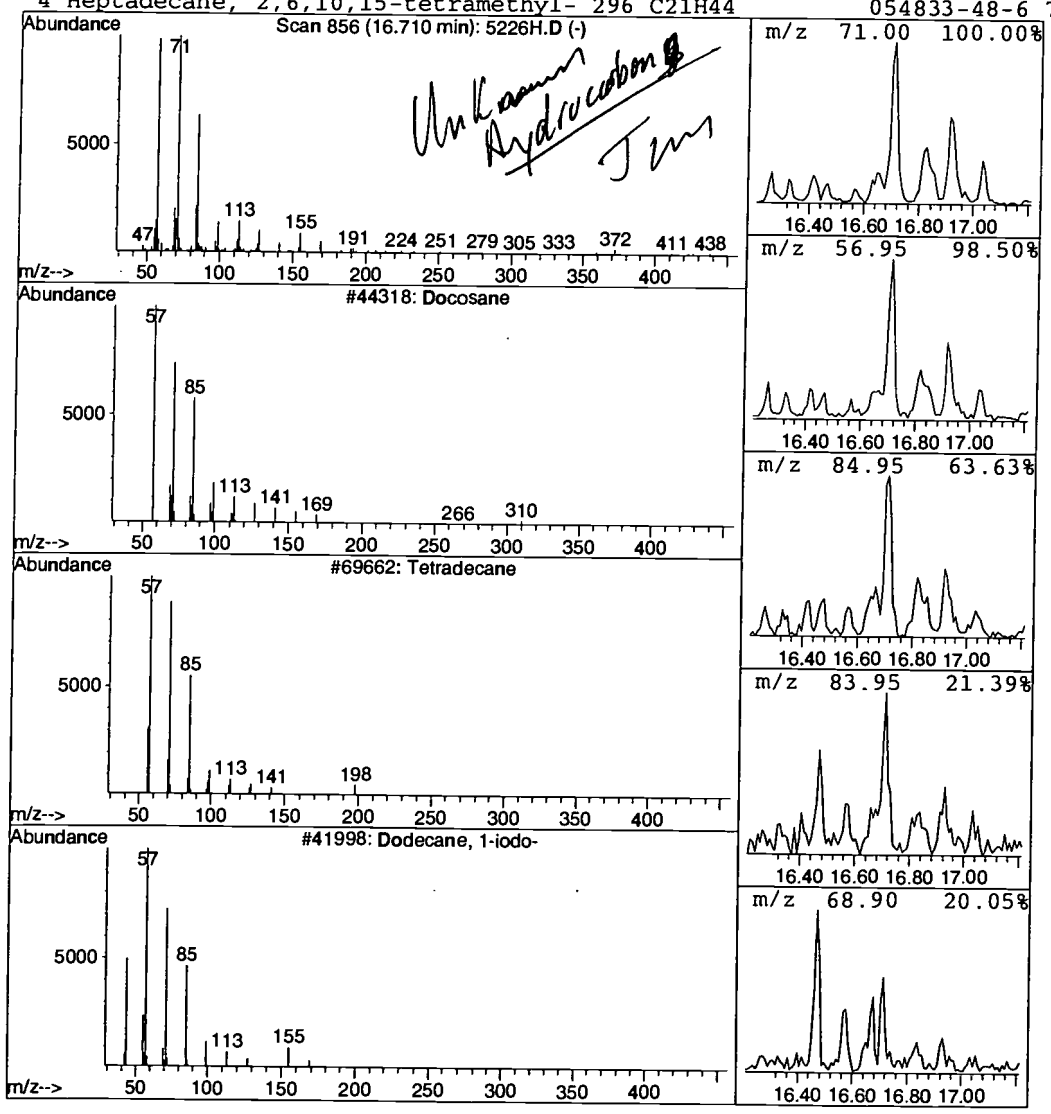
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 4 Docosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.71	0.57 ug/ml	376991	ACENAPHTHENE-D10	18.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	80
2	Tetradecane	198	C14H30	000629-59-4	80
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72
4	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	72



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

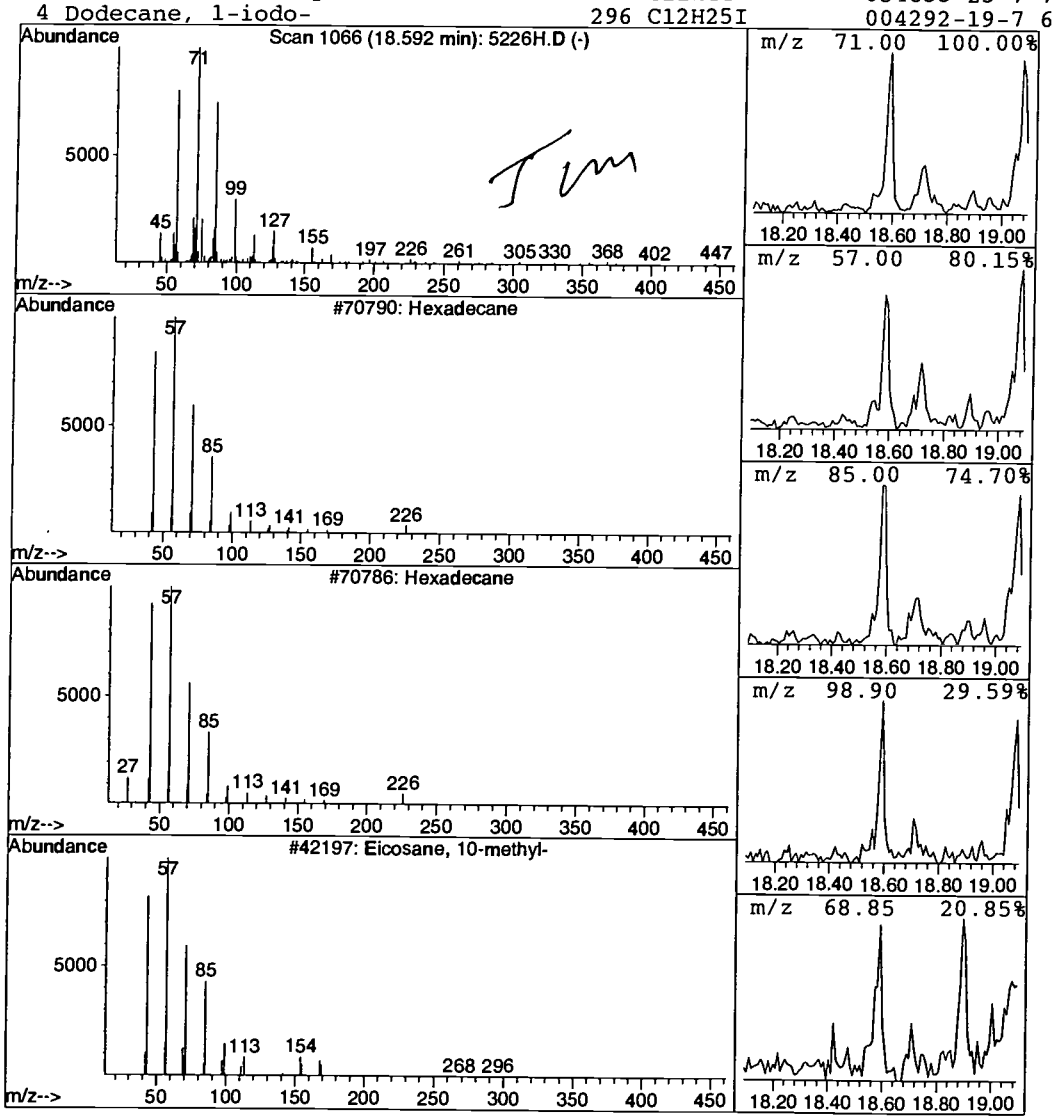
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 5 Hexadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	0.53 ug/ml	347807	ACENAPHTHENE-D10	18.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Hexadecane	226	C16H34	000544-76-3	80
3	Eicosane, 10-methyl-	296	C21H44	054833-23-7	72
4	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	64



Tim

Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

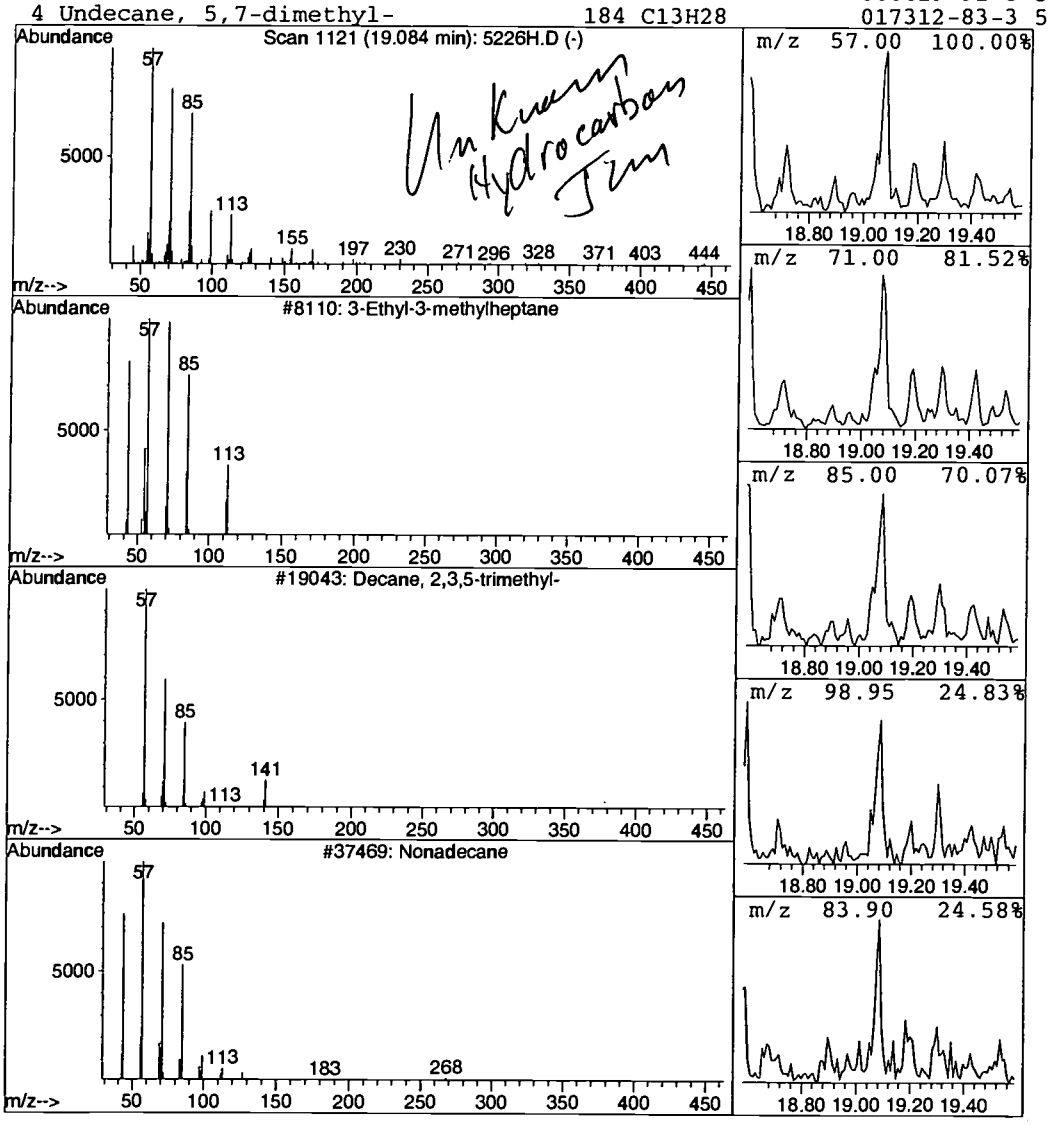
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 6 3-Ethyl-3-methylheptane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.08	0.81 ug/ml	530050	ACENAPHTHENE-D10	18.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Ethyl-3-methylheptane	142	C10H22	017302-01-1	64
2	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	59
3	Nonadecane	268	C19H40	000629-92-5	59
4	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	59



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

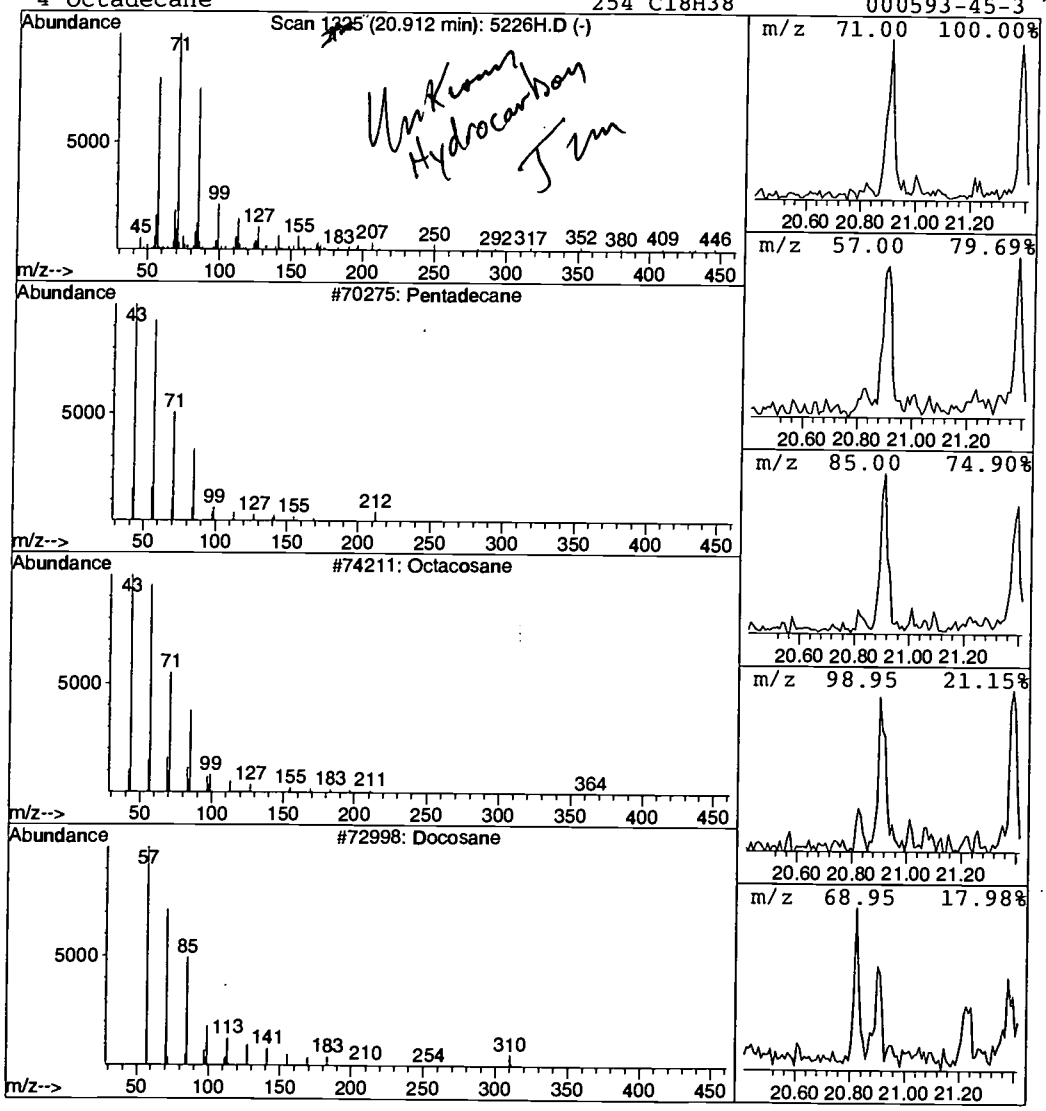
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 7 Pentadecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.91	0.63 ug/ml	257994	PHENANTHRENE-D10	22.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	90
2	Octacosane	394	C28H58	000630-02-4	83
3	Docosane	310	C22H46	000629-97-0	72
4	Octadecane	254	C18H38	000593-45-3	72



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

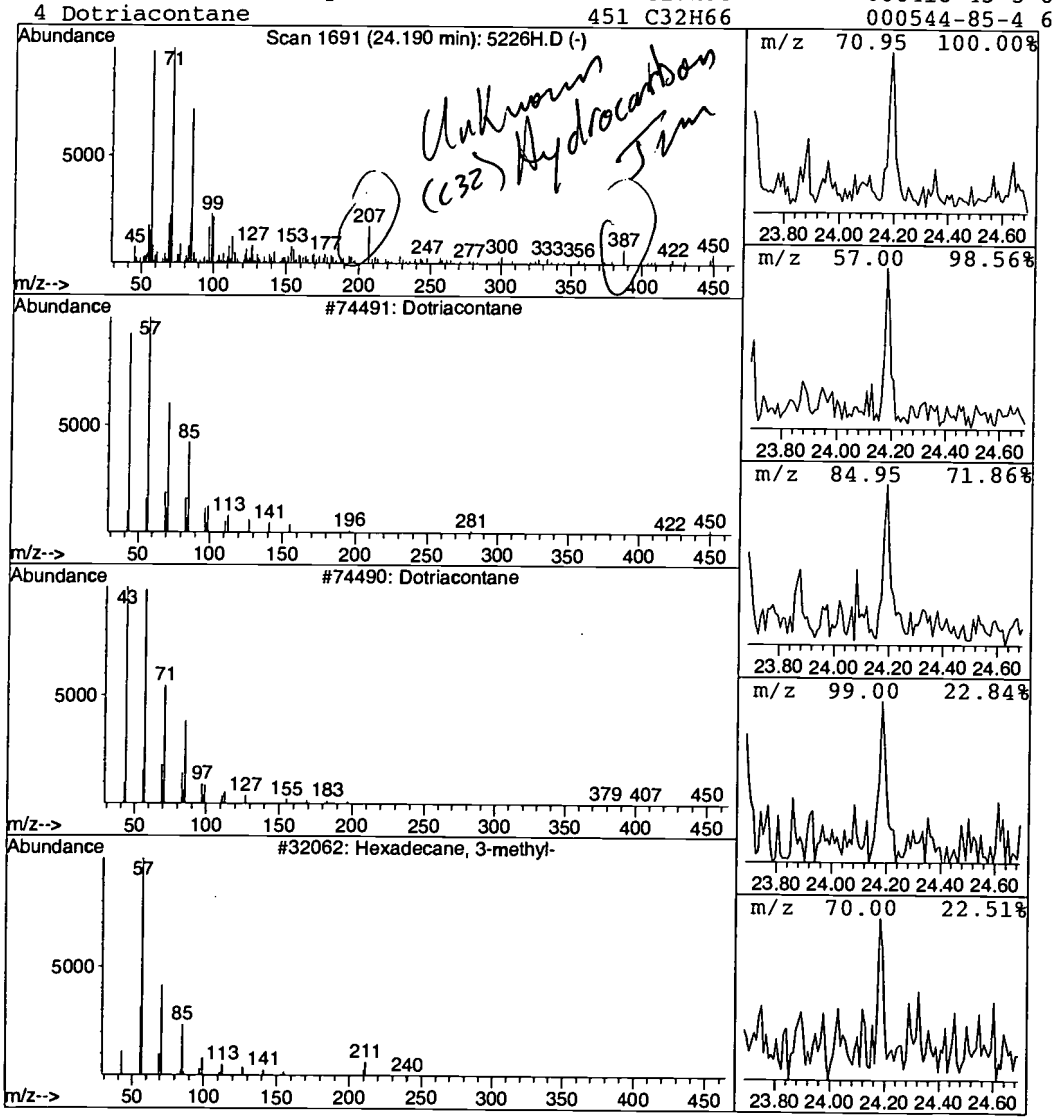
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 8 Dotriacontane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.19	0.58 ug/ml	120268	p-Terphenyl-d14	26.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dotriacontane	451	C32H66	000544-85-4	72
2	Dotriacontane	451	C32H66	000544-85-4	72
3	Hexadecane, 3-methyl-	240	C17H36	006418-43-5	64
4	Dotriacontane	451	C32H66	000544-85-4	64



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

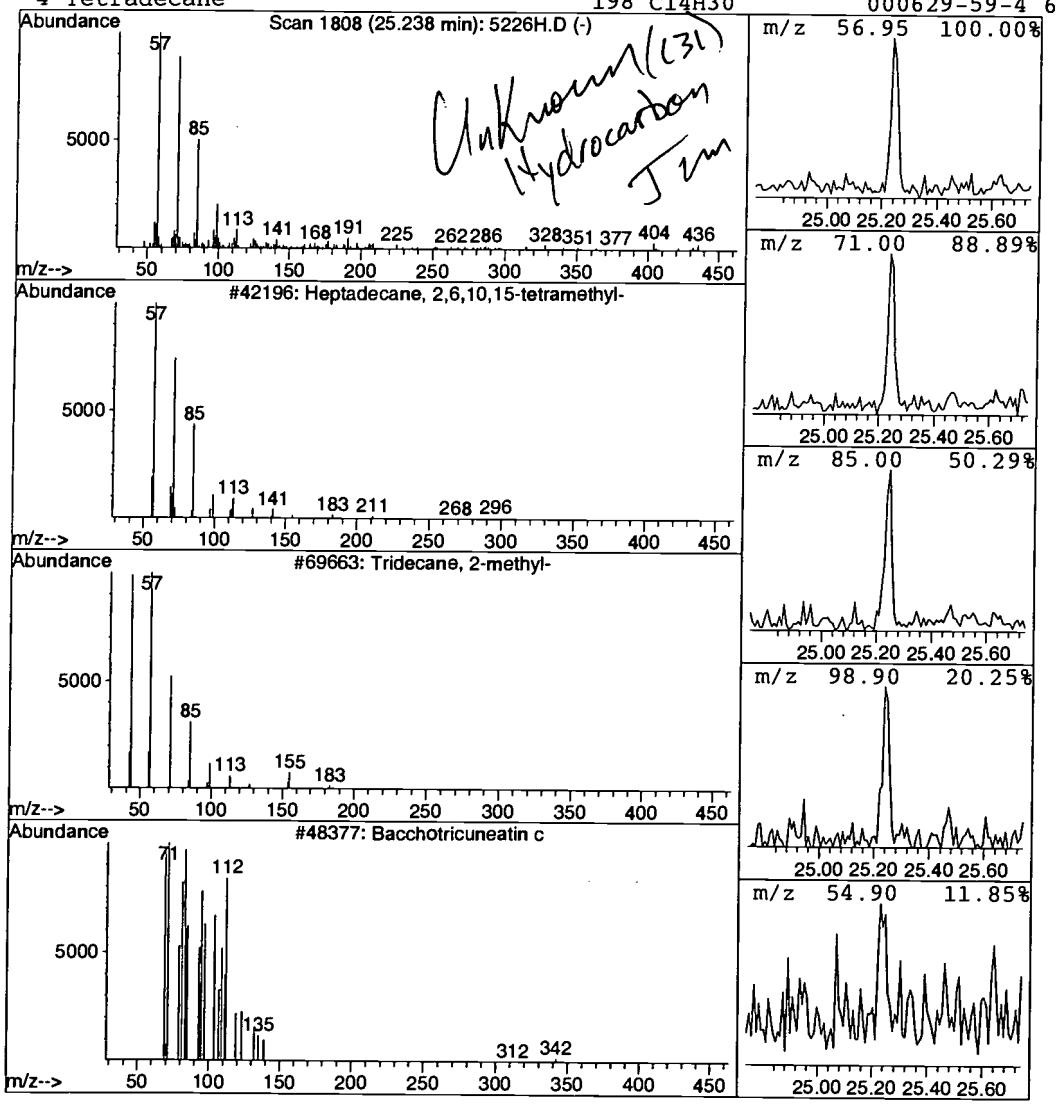
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 9 Heptadecane, 2,6,10,15-tetrame Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.24	0.87 ug/ml	179458	p-Terphenyl-d14	26.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	81
2	Tridecane, 2-methyl-	198	C14H30	001560-96-9	80
3	Bacchotricuneatin c	342	C20H22O5	066563-30-2	68
4	Tetradecane	198	C14H30	000629-59-4	64



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

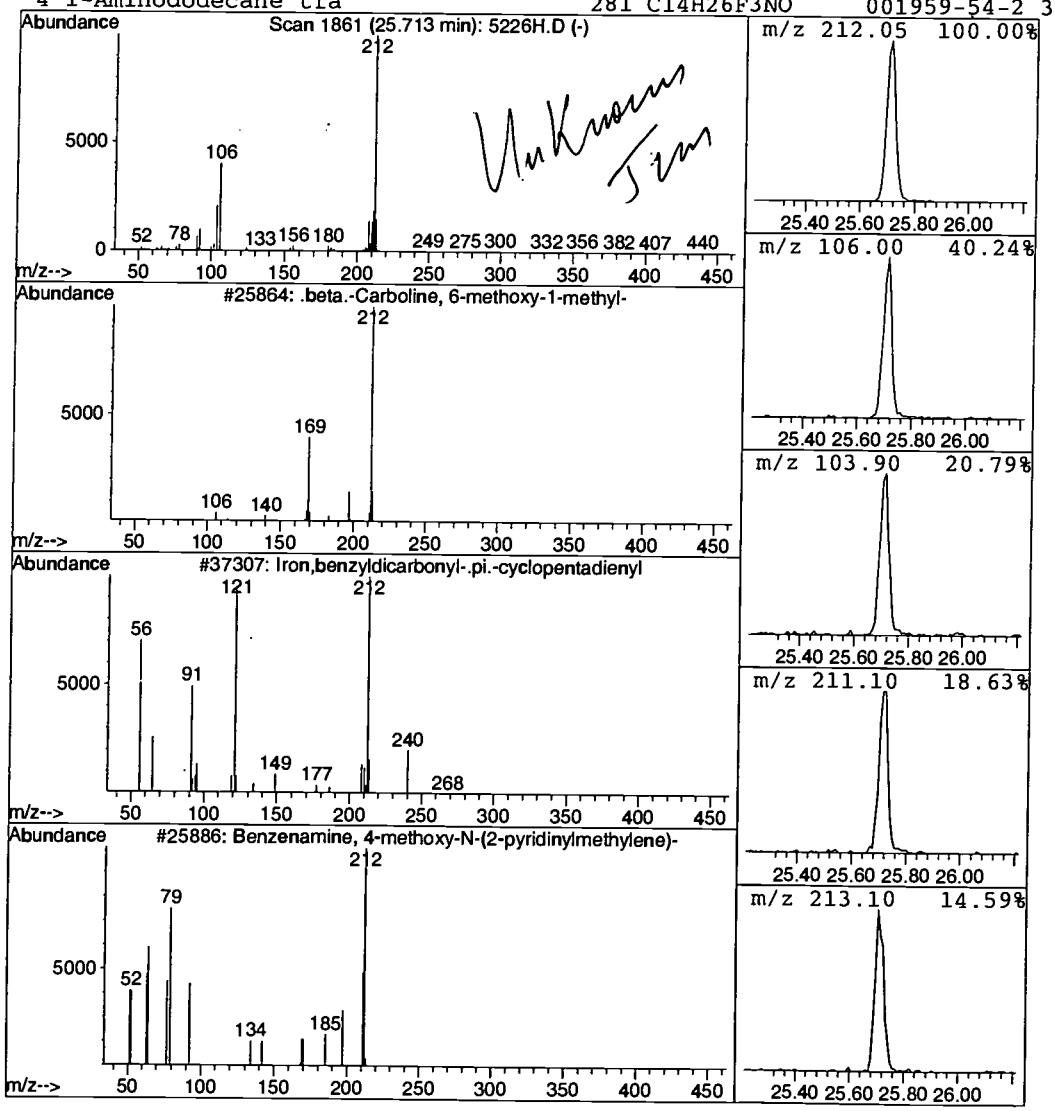
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 10 .beta.-Carboline, 6-methoxy-1- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.71	6.31 ug/ml	1308680	p-Terphenyl-d14	26.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Carboline, 6-methoxy-1-methy	212	C13H12N2O	000000-00-0	50
2	Iron,benzyldicarbonyl-.pi.-cyclopen	268	C14H12FeO2	012093-91-3	38
3	Benzenamine, 4-methoxy-N-(2-pyridin	212	C13H12N2O	026930-67-6	38
4	1-Aminododecane tfa	281	C14H26F3NO	001959-54-2	35



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

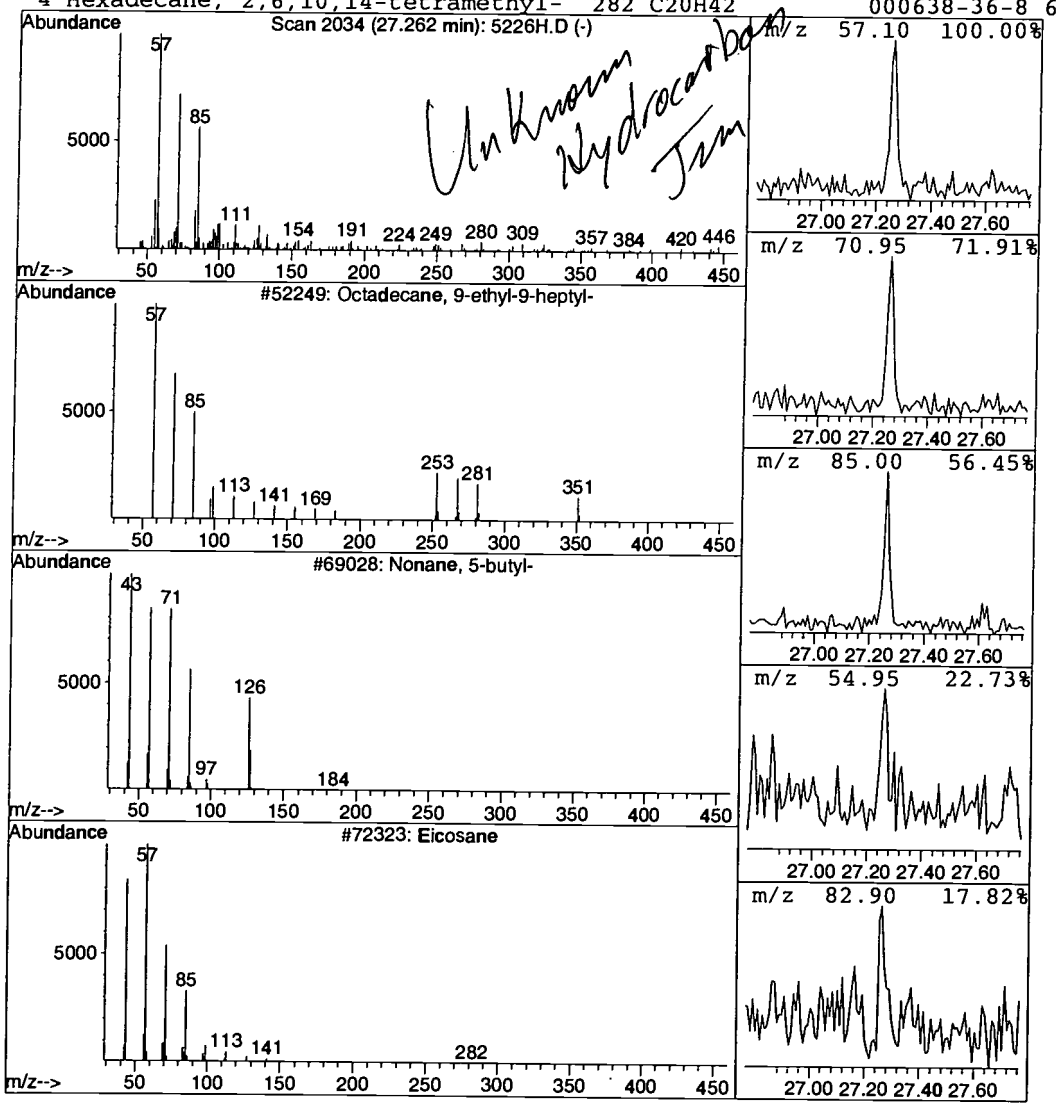
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 11 Octadecane, 9-ethyl-9-heptyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.26	0.65 ug/ml	133964	p-Terphenyl-d14	26.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane, 9-ethyl-9-heptyl-	380	C27H56	055282-27-4	64
2	Nonane, 5-butyl-	184	C13H28	017312-63-9	62
3	Eicosane	282	C20H42	000112-95-8	62
4	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	60



Library Search Compound Report

Data File : D:\HDATA~1\H100801\5226H.D
Acq On : 8 Oct 01 9:39 am
Sample : A567128
Misc : 960ML-1ML
MS Integration Params: RTEINT.P

Vial: 10
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

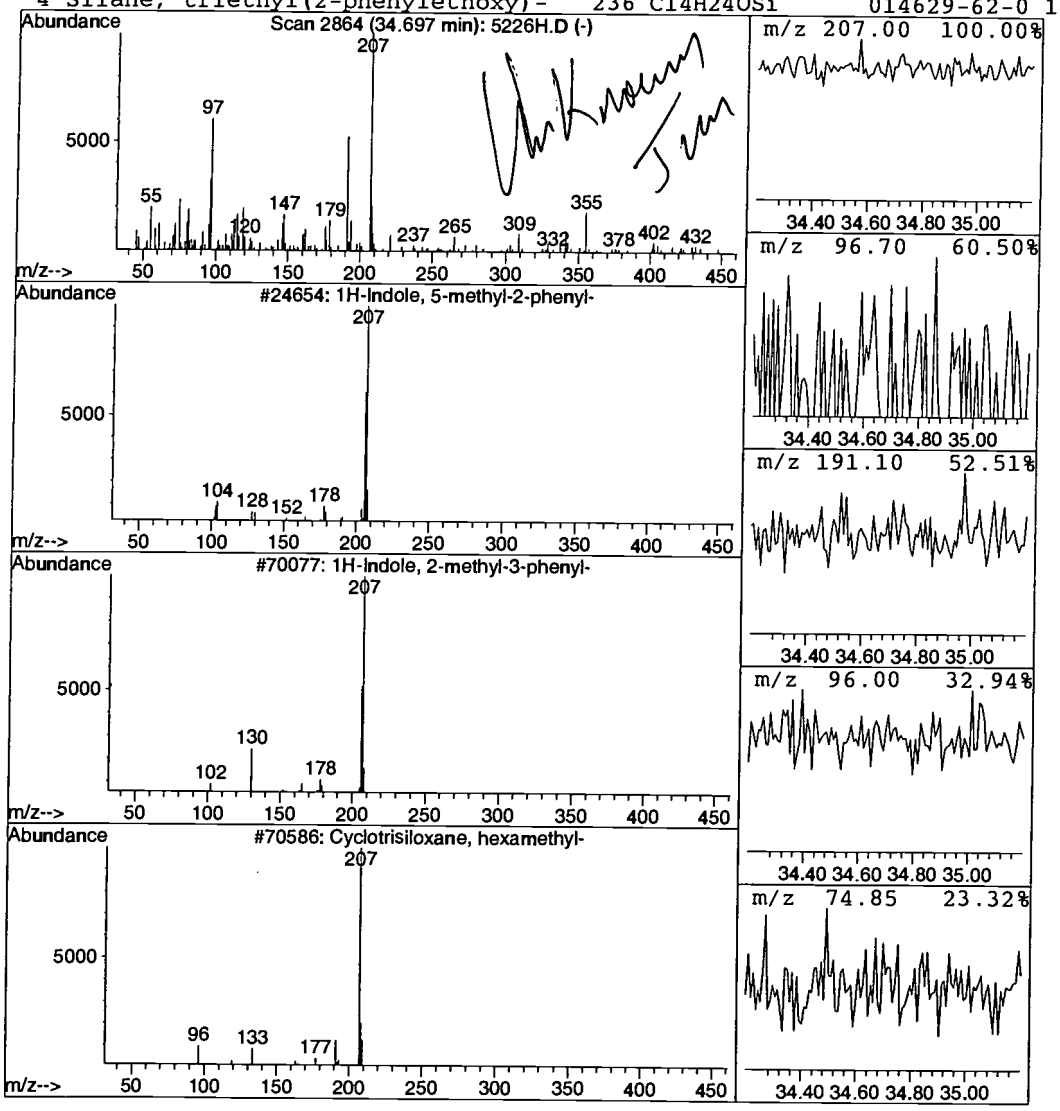
Quant Method : I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 12 1H-Indole, 5-methyl-2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
34.70	0.67 ug/ml	101014	CHRYSENE-D12	29.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indole, 5-methyl-2-phenyl-	207	C15H13N	013228-36-9	27
2	1H-Indole, 2-methyl-3-phenyl-	207	C15H13N	004757-69-1	23
3	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	23
4	Silane, triethyl(2-phenylethoxy)-	236	C14H24OSi	014629-62-0	16



Unknown Jan

Tentatively Identified Compound (LSC) summary

Operator ID: JCM Date Acquired: 8 Oct 01 9:39 am
Data File: D:\HDATA~1\H100801\5226H.D
Name: A567128
Misc: 960ML-1ML
Method: I:\1\METHODS\DRINKWI.M (RTE Integrator)
Title: DRINKING WATER CALIBRATION
Library Searched: C:\DATABASE\nbs75k.l

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Decane, 2,3,7-trimet	13.09	0.5	ug/ml	332934	ISTD01	18.67	3285670	5.0
Undecane, 5-methyl-	13.83	0.8	ug/ml	521919	ISTD01	18.67	3285670	5.0
Dodecane, 2,6,11-tri	16.16	0.5	ug/ml	331075	ISTD01	18.67	3285670	5.0
Docosane	16.71	0.6	ug/ml	376991	ISTD01	18.67	3285670	5.0
Hexadecane	18.59	0.5	ug/ml	347807	ISTD01	18.67	3285670	5.0
3-Ethyl-3-methylhept	19.08	0.8	ug/ml	530050	ISTD01	18.67	3285670	5.0
Pentadecane	20.91	0.6	ug/ml	257994	ISTD02	22.05	2056360	5.0
Dotriacontane	24.19	0.6	ug/ml	120268	ISTD03	26.31	1036640	5.0
Heptadecane, 2,6,10,	25.24	0.9	ug/ml	179458	ISTD03	26.31	1036640	5.0
.beta.-Carboline, 6-	25.71	6.3	ug/ml	1308680	ISTD03	26.31	1036640	5.0
Octadecane, 9-ethyl-	27.26	0.6	ug/ml	133964	ISTD03	26.31	1036640	5.0
1H-Indole, 5-methyl-	34.70	0.7	ug/ml	101014	ISTD04	29.09	759094	5.0

5226H.D DRINKWI.M Mon Oct 08 20:27:06 2001

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
INDIANAPOLIS

OFFICE MEMORANDUM

DATE: November 8, 2002

TO: Jim Harris
Ground Water Section

THRU: Martha Clark, Section Chief MEL
Ground Water

FROM: Mitt Denney
Ground Water Section

SUBJECT: DK27547

I have reviewed the attached results and have determined that the results are acceptable for use. The results have been evaluated for the quality criteria contained in the Ground Water Quality Assurance Program Plan and BAA 97-044. Reviews are confined to the Regulated Drinking Water Contaminants and positive detects of chemical compounds. Unless specified otherwise in this memorandum, analytical results for compounds listed on the Primary and Secondary Drinking Water Standards Lists, for the sample(s) identified in the specified analytical report, are acceptable for quantitative purposes. Any qualification for the acceptance of these results will be identified in this memorandum. This memorandum should remain attached to the original results.

QA/QC Samples

The spike for bis(2-ethylhexyl)phthalate was low biased. All other QA/QC samples were within acceptable limits for the analyses performed. The result for bis(2-ethylhexyl)phthalate is suitable for qualitative purposes only due to matrix interferences. Bis(2-ethylhexyl)phthalate results below 2ppb (2ug/L) are not reliable. The result of 0.54ug/L is well below the MCL of 6ug/L for bis(2-ethylhexyl)phthalate.

All other analyses are suitable for quantitative evaluation.

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	21-SEP-01		A567128
	Complete	PO Number	
	12-OCT-01	312A	
	Printed	Sampled	
	12-OCT-01	20-SEP-01 11:00	

Report To	Bill To
MITT L. DENNEY INDIANA DEPT. OF ENVIRONMENTAL MANAGEMEN 2525 NORTH SHADELAND AVENUE BUILDING 30 INDIANAPOLIS, IN 46219	DEBBIE HILTON (SHADELAND) INDIANA DEPT. OF ENVIRONMENTAL MANAGEMEN 100 N. SENATE AVENUE PO BOX 6015 INDIANAPOLIS, IN 46206

Sample Description

CLIENT ID: DK27547
MATRIX TYPE: NON-SPECIFIC WATER
DESCRIPTION: DK 27547
Submitter Code :7195

FAA OR ICP ACID DIGESTION EPA 200.0

Analyst: M. HALL | Analysis Date: 25-SEP-01 10:00 | Instrument: PREP | Test: P129.2.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ANTIMONY ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER | Analysis Date: 25-SEP-01 22:04 | Instrument: ICP | Test: M402.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

ARSENIC TRACE ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: D. DRABENSTOTT | Analysis Date: 01-OCT-01 15:35 | Instrument: TRACE ICP | Test: M403.0.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

BERYLLIUM TRACE ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: D. DRABENSTOTT | Analysis Date: 01-OCT-01 15:35 | Instrument: TRACE ICP | Test: M405.0.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER | Analysis Date: 25-SEP-01 22:04 | Instrument: ICP | Test: M408.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A567128 DK27547

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M410.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M412.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

LEAD TRACE ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: D. DRABENSTOTT Analysis Date: 01-OCT-01 15:35 Instrument: TRACE ICP Test: M416.0.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

NICKEL ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M422.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

BARIUM ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M404.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
BARIUM	0.075	0.010	mg/L

CALCIUM ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M409.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
CALCIUM	23.	0.10	mg/L

IRON ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M415.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
IRON	0.26	0.025	mg/L

MAGNESIUM ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M418.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	7.8	0.10	mg/L

POTASSIUM ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M426.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A567128 DK27547

Parameter	Result	Det. Limit	Units
POTASSIUM	12.	0.10	mg/L

SODIUM ICP EPA 200.7 REV. 4.4 NELAC:Y
Analyst: J. KRAMER Analysis Date: 25-SEP-01 22:04 Instrument: ICP Test: M431.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
SODIUM	220	0.10	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0
Analyst: J. O'BRYAN Analysis Date: 24-SEP-01 12:45 Instrument: PREP Test: P131.2.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA EPA 245.1 REV. 3.0 NELAC:Y
Analyst: J. O'BRYAN Analysis Date: 25-SEP-01 16:30 Instrument: CVAA Test: M420.2.0
Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

ALKALINITY TOTAL EPA 310.1 NELAC:Y
Analyst: J. RING Analysis Date: 28-SEP-01 11:30 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	310	1.0	mg/L

NITROGEN, NITRATE-NITRITE EPA 353.2 REV. 2.0 NELAC:Y
Analyst: M. ADKINS Analysis Date: 26-SEP-01 18:04 Instrument: AUTO-ANALYZER Test: G113.3.0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.56	0.01	mg/L

SULFATE BY ION CHROMATOGRAPHY EPA 300.0 REV. 2.1 NELAC:Y
Analyst: J. MONTGOMERY Analysis Date: 26-SEP-01 21:48 Instrument: IC Test: G300.7.0

Parameter	Result	Det. Limit	Units
SULFATE	12	0.25	mg/L

REGULATED & UNREGULATED VOC'S IN DRINKING WATER EPA 524.2 REV. 4.1 NELAC:Y
Analyst: R. SHAMP Analysis Date: 28-SEP-01 13:44 Instrument: GC/MS VOA Test: O516.9.0

Parameter	Result	Det. Limit	Units
REGULATED CONTAMINANTS			
BENZENE	BDL	0.50	ug/L
CARBON TETRACHLORIDE	BDL	0.50	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	0.20	ug/L
1,2-DICHLOROETHANE	BDL	0.50	ug/L
1,1-DICHLOROETHENE	BDL	0.50	ug/L
1,1,1-TRICHLOROETHANE	BDL	0.50	ug/L
TRICHLOROETHENE	BDL	0.20	ug/L
VINYL CHLORIDE	BDL	0.50	ug/L
CHLOROBENZENE	BDL	0.50	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	0.50	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	0.50	ug/L
CIS-1,2-DICHLOROETHENE	BDL	0.50	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	0.50	ug/L
1,2-DICHLOROPROPANE	BDL	0.50	ug/L

HERITAGE ENVIRONMENTAL SERVICES, LLC Sample ID: A567128 DK27547

Parameter	Result	Det. Limit	Units
ETHYL BENZENE	BDL	0.50	ug/L
STYRENE	BDL	0.50	ug/L
1,1,2-TRICHLOROETHANE	BDL	0.50	ug/L
TETRACHLOROETHENE	BDL	0.50	ug/L
TOLUENE	BDL	0.50	ug/L
O-XYLENE	BDL	0.50	ug/L
M/P-XYLENE	BDL	0.50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	0.50	ug/L
UNREGULATED - MONITORING REQUIRED			
BROMOBENZENE	BDL	0.50	ug/L
BROMODICHLOROMETHANE	BDL	0.50	ug/L
BROMOFORM	BDL	0.50	ug/L
BROMOMETHANE	BDL	0.50	ug/L
CHLORODIBROMOMETHANE	BDL	0.50	ug/L
CHLOROETHANE	BDL	0.50	ug/L
CHLOROFORM	BDL	0.50	ug/L
CHLOROMETHANE	BDL	0.50	ug/L
2-CHLOROTOLUENE (O-CHLOROTOLUENE)	BDL	0.50	ug/L
4-CHLOROTOLUENE (P-CHLOROTOLUENE)	BDL	0.50	ug/L
DIBROMOMETHANE	BDL	0.50	ug/L
1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	BDL	0.50	ug/L
1,1-DICHLOROETHANE	BDL	0.50	ug/L
1,1-DICHLOROPROPENE	BDL	0.50	ug/L
1,3-DICHLOROPROPANE	BDL	0.50	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	0.50	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	0.50	ug/L
2,2-DICHLOROPROPANE	BDL	0.50	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	0.50	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	0.50	ug/L
1,2,3-TRICHLOROPROPANE	BDL	0.50	ug/L
MONITORED AT STATE'S DISCRETION			
BROMOCHLOROMETHANE	BDL	0.50	ug/L
N-BUTYLBENZENE	BDL	0.50	ug/L
DICHLORODIFLUOROMETHANE	BDL	0.50	ug/L
TRICHLOROFLUOROMETHANE	BDL	0.50	ug/L
HEXACHLOROBUTADIENE	BDL	0.50	ug/L
ISOPROPYLBENZENE (CUMENE)	BDL	0.50	ug/L
4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	BDL	0.50	ug/L
NAPHTHALENE	BDL	0.50	ug/L
N-PROPYLBENZENE	BDL	0.50	ug/L
SEC-BUTYLBENZENE	BDL	0.50	ug/L
TERT-BUTYLBENZENE	BDL	0.50	ug/L
1,2,3-TRICHLOROBENZENE	BDL	0.50	ug/L
1,2,4-TRIMETHYLBENZENE	BDL	0.50	ug/L
1,3,5-TRIMETHYLBENZENE	BDL	0.50	ug/L
1,2-DIBROMOETHANE (EDB)	BDL	0.50	ug/L
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	BDL	0.50	ug/L
METHYL-T-BUTYL ETHER (MTBE)	BDL	0.50	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	89		% Rec
TOLUENE-D8	103		% Rec

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A567128 DK27547

Parameter	Result	Det. Limit	Units
4-BROMOFLUOROBENZENE	103		% Rec
....			
TENTATIVELY IDENTIFIED COMPOUNDS			

UNKNOWN	J 1.2 RT=16.33		ug/L
ACETONE (2-PROPANONE)	J 4.5 RT=2.26		ug/L
METHYL ETHYL KETONE	J 2.2 RT=3.87		ug/L

LIQUID - SOLID EXTRACTION (LSE) PH 2 EPA 525.2 REV. 2.0

Analyst: P. SIMS Analysis Date: 24-SEP-01 Instrument: PREP Test: P244.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	960		mL
FINAL VOLUME	1.0		mL

IDEM 525 EXTENDED PESTICIDES/SOC'S BY GC/MS EPA 525.2 REV. 2.0 NELAC:Y

Analyst: J. MINNIEAR, II Analysis Date: 08-OCT-01 09:39 Instrument: GC/MS SVOA Test: 0512.0.0

Prep: LIQUID - SOLID EXTRACTION (LSE) PH 2 EPA 525.2 REV. 2.0 P244.4.0

Parameter	Result	Det. Limit	Units
ISOPHORONE	BDL	0.1	ug/L
DICHLORVOS	BDL	0.1	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	0.1	ug/L
EPTC (ERADICANE)	BDL	0.1	ug/L
MEVINPHOS	BDL	0.1	ug/L
BUTYLATE	BDL	0.1	ug/L
VERNOLATE	BDL	0.1	ug/L
ETRIDIAZOLE	BDL	0.1	ug/L
DIMETHYLPHTHALATE	BDL	0.1	ug/L
PEBULATE (TILLAM)	BDL	0.1	ug/L
2,6-DINITROTOLUENE	BDL	0.1	ug/L
ACENAPHTHYLENE	BDL	0.1	ug/L
CHLORNEB	BDL	0.1	ug/L
2-CHLOROBIPHENYL (1)	BDL	0.1	ug/L
PENTACHLOROBENZENE	BDL	0.1	ug/L
TEBUTHIURON	BDL	0.52	ug/L
2,4-DINITROTOLUENE	BDL	0.1	ug/L
MOLINATE	BDL	0.1	ug/L
DIETHYLPHTHALATE	BDL	0.1	ug/L
FLUORENE	BDL	0.1	ug/L
PROPACHLOR	BDL	0.1	ug/L
ETHOPROP	BDL	0.1	ug/L
CYCLOATE	BDL	0.1	ug/L
CHLOROPROPHAM	BDL	0.1	ug/L
TRIFLURALIN	BDL	0.1	ug/L
ALPHA-BHC	BDL	0.1	ug/L
2,3-DICHLOROBIPHENYL (5)	BDL	0.1	ug/L
HEXACHLOROBENZENE	BDL	0.1	ug/L
ATRATON	BDL	0.52	ug/L
PROMETON (PRAMITOL)	BDL	0.52	ug/L
SIMAZINE	BDL	0.1	ug/L
ATRAZINE	BDL	0.1	ug/L
BETA-BHC	BDL	0.1	ug/L
PROPAZINE (MILOGARD)	BDL	0.1	ug/L
PENTACHLOROPHENOL	BDL	2.08	ug/L

HERITAGE ENVIRONMENTAL SERVICES, LLC Sample ID: A567128 DK27547

Parameter	Result	Det. Limit	Units
GAMMA-BHC (LINDANE)	BDL	0.1	ug/L
TERBUFOS (COUNTER)	BDL	0.1	ug/L
PRONAMIDE	BDL	0.1	ug/L
DIAZINON	BDL	0.1	ug/L
PHENANTHRENE	BDL	0.1	ug/L
CHLOROTHALONIL (BRAVO)	BDL	0.1	ug/L
DISULFOTON	BDL	0.1	ug/L
ANTHRACENE	BDL	0.1	ug/L
METHYLPARAOXON	BDL	0.52	ug/L
TERBACIL	BDL	0.1	ug/L
DELTA-BHC	BDL	0.1	ug/L
2,4,5-TRICHLOROBIPHENYL	BDL	0.1	ug/L
ACETOCHLOR	BDL	0.1	ug/L
METRIBUZIN	BDL	0.1	ug/L
ALACHLOR	BDL	0.1	ug/L
SIMETRYN	BDL	0.1	ug/L
AMETRYN	BDL	0.1	ug/L
HEPTACHLOR	BDL	0.1	ug/L
PROMETRYN	BDL	0.1	ug/L
TERBUTRYN	BDL	0.1	ug/L
DI-N-BUTYLPHTHALATE	BDL	0.1	ug/L
BROMACIL	BDL	0.52	ug/L
2,2′,4,4′-TETRACHLOROBIPHENYL	BDL	0.1	ug/L
ALDRIN	BDL	0.1	ug/L
METOLACHLOR	BDL	0.1	ug/L
CHLOROPYRIFOS (DURSBAN)	BDL	0.1	ug/L
DCPA (DACTHAL)	BDL	0.1	ug/L
CYANAZINE (BLADEX)	BDL	0.1	ug/L
TRIADIMEFON	BDL	0.1	ug/L
DIPHENAMID	BDL	0.1	ug/L
MGK 264	BDL	0.1	ug/L
PENDIMETHALIN	BDL	0.1	ug/L
HEPTACHLOR EPOXIDE	BDL	0.1	ug/L
2,2′,3′,4,6-PENTACHLOROBIPHENYL	BDL	0.1	ug/L
GAMMA-CHLORDANE	BDL	0.1	ug/L
STIROFOS	BDL	0.1	ug/L
BUTACHLOR	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.1	ug/L
ENDOSULFAN I	BDL	0.1	ug/L
TRANS-NONACHLOR	BDL	0.1	ug/L
FENAMIPHOS	BDL	0.52	ug/L
NAPROPAMIDE	BDL	0.1	ug/L
TRICYCLAZOLE	BDL	0.1	ug/L
4,4′-DDE	BDL	0.1	ug/L
2,2′,4,4′,5,6′-HEXACHLOROBIPHENYL	BDL	0.1	ug/L
PYRENE	BDL	0.1	ug/L
DIELDRIN	BDL	0.1	ug/L
CARBOXIN	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
CHLOROBENZILATE	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.52	ug/L
4,4′-DDD	BDL	0.1	ug/L
ENDRIN ALDEHYDE	BDL	0.52	ug/L

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A567128 DK27547

Parameter	Result	Det. Limit	Units
NORFLURAZON	BDL	0.52	ug/L
BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
HEXAZINONE	BDL	0.1	ug/L
DI(2-ETHYLHEXYL)ADIPATE	BDL	0.1	ug/L
2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	BDL	0.1	ug/L
BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	BDL	0.1	ug/L
2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.1	ug/L
CHRYSENE	BDL	0.1	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	.54	0.1	ug/L
FENARIMOL	BDL	0.52	ug/L
CIS-PERMETHRIN	BDL	0.1	ug/L
TRANS-PERMETHRIN	BDL	0.1	ug/L
BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	BDL	0.1	ug/L
BENZO(K)FLUORANTHENE	BDL	0.1	ug/L
BENZO(A)PYRENE	BDL	0.1	ug/L
FLURIDONE	BDL	0.1	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	0.1	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	0.1	ug/L
BENZO(G,H,I)PERYLENE	BDL	0.1	ug/L
...			

SURROGATE RECOVERY			
2-NITRO-M-XYLENE	92		% Rec
TRIPHENYL ESTER PHOSPHORIC ACID	82		% Rec
PERYLENE-D12	102		% Rec
...			
TENTATIVELY IDENTIFIED COMPOUNDS			

UNKNOWN HYDROCARBON	J 0.53 RT=13.09		ug/L
UNKNOWN HYDROCARBON	J 0.83 RT=13.83		ug/L
UNKNOWN HYDROCARBON	J 0.52 RT=16.16		ug/L
UNKNOWN HYDROCARBON	J 0.6 RT=16.71		ug/L
HEXADECANE	J 0.55 RT=18.59		ug/L
UNKNOWN HYDROCARBON	J 0.84 RT=19.08		ug/L
UNKNOWN HYDROCARBON	J 0.65 RT=20.91		ug/L
UNKNOWN HYDROCARBON	J 0.58 RT=24.19		ug/L
UNKNOWN HYDROCARBON	J 0.87 RT=25.24		ug/L
UNKNOWN	J 6.6 RT=25.71		ug/L
UNKNOWN HYDROCARBON	J 0.67 RT=27.26		ug/L
UNKNOWN	J 0.69 RT=34.7		ug/L

Sample failed method internal standard area criteria. Sample reanalyzed with no improvement.

Sample Comments

BDL Below Detection Limit
J Estimated
RT Retention Time

Sample was received on ice at temperature 3.3 C.

Sample Comments

All aqueous samples are reported on a wet weight basis unless otherwise noted.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.
The sample results relate only to the analytes of interest tested or to the sample as received by the lab.
Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations.
Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401.
Arizona License Number AZ0627.

Approved : G A Busch, QAO

QUALITY ASSURANCE REPORT

Service Location
HERITAGE ENVIRONMENTAL SERVICES, LLC
COMMERCIAL LABORATORY OPERATIONS
7901 W. MORRIS ST.
INDIANAPOLIS, IN 46231
(317)243-8304

Report Date
12-OCT-01

Submitter
INDIANA DEPARTMENT OF ENVIRONMENTAL MGMT

P O BOX 6015
INDIANAPOLIS, IN 46206

Client ID	Lab ID	Date-Time Sampled	Date Received	Date Complete	Description
DK27547	A567128	20-SEP-01 11:00	21-SEP-01	12-OCT-01	DESCRIPTION: DK 27547

HERITAGE ENVIRONMENTAL SERVICES, LLC

NITROGEN, NITRATE-NITRITE EPA 353.2 REV. 2.0 — G113.3

Run: R420377 Analyst.: M ADKINS Run Date...: 26-SEP-01 Instrument: AUTO-ANALYZER
ANALYTICAL Reviewer: B SHRAKE Review Date: 28-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CDL01	Q1285988		NITROGEN, NITRATE-NITRITE	0.05		0.053	mg/L	106	
ICV01	Q1285990		NITROGEN, NITRATE-NITRITE	0.788		0.824	mg/L	104.6	
CCV	Q1286000		NITROGEN, NITRATE-NITRITE	0.2		0.202	mg/L	101	
BLA01	Q1286001		NITROGEN, NITRATE-NITRITE			BDL 0.01	mg/L		
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI01	Q1286002	A567128	NITROGEN, NITRATE-NITRITE	0.504	0.1	0.605	mg/L	101	
DPS01	Q1286003	A567128	NITROGEN, NITRATE-NITRITE	0.504	0.1	0.603	mg/L	99	2
CCV	Q1286005		NITROGEN, NITRATE-NITRITE	0.2		0.202	mg/L	101	
BLA01	Q1286006		NITROGEN, NITRATE-NITRITE			BDL 0.01	mg/L		
DUP01	Q1286007	A567171	NITROGEN, NITRATE-NITRITE	0		BDL	mg/L		

SULFATE BY ION CHROMATOGRAPHY EPA 300.0 REV. 2.1 — G300.7

Run: R420278 Analyst.: J MONTGOMERY Run Date...: 26-SEP-01 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 28-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1285422		SULFATE			BDL 0.25	mg/L		
CCVL	Q1285423		SULFATE	2.5		2.45	mg/L	98	
CCVH	Q1285424		SULFATE	25		23.7	mg/L	94.8	
LFB01	Q1285425		SULFATE	5		5.18	mg/L	103.6	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI01	Q1285428	A567128	SULFATE	10.7	5	15.5	mg/L	96	
DPS01	Q1285429	A567128	SULFATE	10.7	5	15.5	mg/L	96	0
CCVL	Q1285430		SULFATE	2.5		2.46	mg/L	98.4	
CCVH	Q1285431		SULFATE	25		23.6	mg/L	94.4	
BLA01	Q1285432		SULFATE			BDL 0.25	mg/L		

ALKALINITY TOTAL EPA 310.1 — G605.2

Run: R420345 Analyst.: J RING Run Date...: 28-SEP-01
ANALYTICAL Reviewer: K FULLMER Review Date: 29-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q1285783		ALKALINITY	26.9		27	mg/L	100.4	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
DUP01	Q1285784	A567128	ALKALINITY	310		320	mg/L		3.2
CCV	Q1285786		ALKALINITY	125		120	mg/L	96	

ANTIMONY ICP EPA 200.7 REV. 4.4 — M402.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284414	PERKIN	ANTIMONY	1		1.02	mg/L	102	
CDL01	Q1284418	PERKIN	ANTIMONY	0.120		0.126	mg/L	105	
ICS-A	Q1284421	PERKIN	ANTIMONY	0.6		0.641	mg/L	106.8	
CCV	Q1284422	INORGAN	ANTIMONY	1		1.03	mg/L	103	
BLA01	Q1284423	NA	ANTIMONY			< 0.00400	mg/L		
BLA02	Q1284002	NA	ANTIMONY			< 0.00400	mg/L		
LCS	Q1284003	SPEX	ANTIMONY	5.00		5.51	mg/L	110.2	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	ANTIMONY	0	0.500	0.547	mg/L	109.4	
DPS02	Q1284005	A567128	ANTIMONY	0	0.500	0.550	mg/L	110	.5
CCV	Q1284424	INORGAN	ANTIMONY	1		1.04	mg/L	104	
BLA01	Q1284425	NA	ANTIMONY			< 0.00400	mg/L		
CDL01	Q1284426	PERKIN	ANTIMONY	0.120		0.122	mg/L	101.7	
ICS-A	Q1284428	PERKIN	ANTIMONY	0.6		0.648	mg/L	108	

ARSENIC TRACE ICP EPA 200.7 REV. 4.4 M403.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
SAMPLE	A567128	Rep: 0	R420470
BLA02	Q1284006	NA	R420470
LCS	Q1284007	INORGAN	R420470
SPI02	Q1284008	A567128	R420470
DPS02	Q1284009	A567128	R420470

Run: R420470 Analyst.: D DRABENSTOTT Run Date...: 01-OCT-01 Instrument: TRACE ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 02-OCT-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1286630	PERKIN-	ARSENIC	0.05		0.0461	mg/L	92.2	
CDL01	Q1286635	INORGAN	ARSENIC	0.5		0.486	mg/L	97.2	
ICS-A	Q1286637	PERKIN	ARSENIC	0.1		0.0984	mg/L	98.4	
CCV	Q1286638	INORGAN	ARSENIC	0.1		0.0920	mg/L	92	
BLA01	Q1286639	NA	ARSENIC			< 0.00200	mg/L		
BLA02	Q1284006	NA	ARSENIC			< 0.00200	mg/L		
LCS	Q1284007	INORGAN	ARSENIC	0.5		0.501	mg/L	100.2	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284008	A567128	ARSENIC	0	2	1.92	mg/L	96	
DPS02	Q1284009	A567128	ARSENIC	0	2	1.94	mg/L	97	1
CCV	Q1286640	INORGAN	ARSENIC	0.1		0.0951	mg/L	95.1	
BLA01	Q1286641	NA	ARSENIC			< 0.00200	mg/L		
CDL01	Q1286644	PERKIN-	ARSENIC	0.02		0.0186	mg/L	93	
ICS-A	Q1286646	PERKIN	ARSENIC	0.1		0.0925	mg/L	92.5	

HERITAGE ENVIRONMENTAL SERVICES, LLC

BARIUM ICP EPA 200.7 REV. 4.4 — M404.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284415	PERKIN	BARIUM	1		1.00	mg/L	100	
CDL01	Q1284419	INORGAN	BARIUM	10		10.3	mg/L	103	
ICS-A	Q1284421	PERKIN	BARIUM	0.500		0.499	mg/L	99.8	
CCV	Q1284422	INORGAN	BARIUM	5.00		4.89	mg/L	97.8	
BLA01	Q1284423	NA	BARIUM			< 0.00400	mg/L		
BLA02	Q1284002	NA	BARIUM			< 0.00400	mg/L		
LCS	Q1284003	SPEX	BARIUM	20.0		19.6	mg/L	98	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	BARIUM	0.0753	2.00	2.12	mg/L	102.2	
DPS02	Q1284005	A567128	BARIUM	0.0753	2.00	2.14	mg/L	103.2	1
CCV	Q1284424	INORGAN	BARIUM	5.00		4.97	mg/L	99.4	
BLA01	Q1284425	NA	BARIUM			< 0.00400	mg/L		
ICS-A	Q1284428	PERKIN	BARIUM	0.500		0.508	mg/L	101.6	

BERYLLIUM TRACE ICP EPA 200.7 REV. 4.4 — M405.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
SAMPLE	A567128	Rep: 0	R420470
BLA02	Q1284006	NA	R420470
LCS	Q1284007	INORGAN	R420470
SPI02	Q1284008	A567128	R420470
DPS02	Q1284009	A567128	R420470

Run: R420470 Analyst.: D DRABENSTOTT Run Date...: 01-OCT-01 Instrument: TRACE ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 02-OCT-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1286630	PERKIN-	BERYLLIUM	0.05		0.0461	mg/L	92.2	
CDL01	Q1286635	INORGAN	BERYLLIUM	0.5		0.485	mg/L	97	
ICS-A	Q1286637	PERKIN	BERYLLIUM	0.5		0.480	mg/L	96	
CCV	Q1286638	INORGAN	BERYLLIUM	0.1		0.0984	mg/L	98.4	
BLA01	Q1286639	NA	BERYLLIUM			< 0.000400	mg/L		
BLA02	Q1284006	NA	BERYLLIUM			< 0.000400	mg/L		
LCS	Q1284007	INORGAN	BERYLLIUM	0.5		0.498	mg/L	99.6	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284008	A567128	BERYLLIUM	0	0.05	0.0466	mg/L	93.2	
DPS02	Q1284009	A567128	BERYLLIUM	0	0.05	0.0469	mg/L	93.8	.6
CCV	Q1286640	INORGAN	BERYLLIUM	0.1		0.0990	mg/L	99	
BLA01	Q1286641	NA	BERYLLIUM			< 0.000400	mg/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CDL01	Q1286644	PERKIN-	BERYLLIUM	0.01		0.00930	mg/L	93	
ICS-A	Q1286646	PERKIN	BERYLLIUM	0.5		0.478	mg/L	95.6	

CADMIUM ICP EPA 200.7 REV. 4.4 — M408.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284414	PERKIN	CADMIUM	1		1.02	mg/L	102	
CDL01	Q1284419	INORGAN	CADMIUM	10		10.3	mg/L	103	
ICS-A	Q1284421	PERKIN	CADMIUM	1.00		1.05	mg/L	105	
CCV	Q1284422	INORGAN	CADMIUM	5.00		5.06	mg/L	101.2	
BLA01	Q1284423	NA	CADMIUM			< 0.00200	mg/L		
BLA02	Q1284002	NA	CADMIUM			< 0.00200	mg/L		
LCS	Q1284003	SPEX	CADMIUM	0.500		0.545	mg/L	109	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	CADMIUM	0	0.050	0.0544	mg/L	108.8	
DPS02	Q1284005	A567128	CADMIUM	0	0.050	0.0548	mg/L	109.6	.7
CCV	Q1284424	INORGAN	CADMIUM	5.00		5.10	mg/L	102	
BLA01	Q1284425	NA	CADMIUM			< 0.00200	mg/L		
CDL01	Q1284426	PERKIN	CADMIUM	0.010		0.0102	mg/L	102	
ICS-A	Q1284428	PERKIN	CADMIUM	1.00		1.08	mg/L	108	

CALCIUM ICP EPA 200.7 REV. 4.4 — M409.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284416	SPEX	CALCIUM	20		19.7	mg/L	98.5	
ICS-A	Q1284421	PERKIN	CALCIUM	500		475.	mg/L	95	
CCV	Q1284422	INORGAN	CALCIUM	50.0		48.6	mg/L	97.2	
BLA01	Q1284423	NA	CALCIUM			< 0.0400	mg/L		
BLA02	Q1284002	NA	CALCIUM			< 0.0400	mg/L		
LCS	Q1284003	SPEX	CALCIUM	100		100.	mg/L	100	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	CALCIUM	23.3	100	123.	mg/L	99.7	
DPS02	Q1284005	A567128	CALCIUM	23.3	100	124.	mg/L	100.7	1
CCV	Q1284424	INORGAN	CALCIUM	50.0		49.4	mg/L	98.8	
BLA01	Q1284425	NA	CALCIUM			< 0.0400	mg/L		
ICS-A	Q1284427	PERKIN-	CALCIUM	500		478.	mg/L	95.6	

CHROMIUM ICP EPA 200.7 REV. 4.4 — M410.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284414	PERKIN	CHROMIUM	1		1.02	mg/L	102	
CDL01	Q1284419	INORGAN	CHROMIUM	10		10.4	mg/L	104	
ICS-A	Q1284421	PERKIN	CHROMIUM	0.500		0.483	mg/L	96.6	
CCV	Q1284422	INORGAN	CHROMIUM	5.00		4.90	mg/L	98	
BLA01	Q1284423	NA	CHROMIUM			< 0.00400	mg/L		
BLA02	Q1284002	NA	CHROMIUM			< 0.00400	mg/L		
LCS	Q1284003	SPEX	CHROMIUM	2.00		2.04	mg/L	102	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	CHROMIUM	0	0.200	0.204	mg/L	102	
DPS02	Q1284005	A567128	CHROMIUM	0	0.200	0.206	mg/L	103	1
CCV	Q1284424	INORGAN	CHROMIUM	5.00		4.97	mg/L	99.4	
BLA01	Q1284425	NA	CHROMIUM			< 0.00400	mg/L		
CDL01	Q1284426	PERKIN	CHROMIUM	0.020		0.0209	mg/L	104.5	
ICS-A	Q1284428	PERKIN	CHROMIUM	0.500		0.491	mg/L	98.2	

COPPER ICP EPA 200.7 REV. 4.4 — M412.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284414	PERKIN	COPPER	1		0.996	mg/L	99.6	
CDL01	Q1284419	INORGAN	COPPER	10		10.2	mg/L	102	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICS-A	Q1284421	PERKIN	COPPER	0.500		0.528	mg/L	105.6	
CCV	Q1284422	INORGAN	COPPER	5.00		4.94	mg/L	98.8	
BLA01	Q1284423	NA	COPPER			< 0.00800	mg/L		
BLA02	Q1284002	NA	COPPER			< 0.00800	mg/L		
LCS	Q1284003	SPEX	COPPER	2.50		2.58	mg/L	103.2	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	COPPER	0	0.250	0.257	mg/L	102.8	
DPS02	Q1284005	A567128	COPPER	0	0.250	0.258	mg/L	103.2	.4
CCV	Q1284424	INORGAN	COPPER	5.00		4.99	mg/L	99.8	
BLA01	Q1284425	NA	COPPER			< 0.00800	mg/L		
CDL01	Q1284426	PERKIN	COPPER	0.050		0.0493	mg/L	98.6	
ICS-A	Q1284428	PERKIN	COPPER	0.500		0.533	mg/L	106.6	

IRON ICP EPA 200.7 REV. 4.4 — M415.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 PREP — Analyst.: M HALL — Reviewer: W WATNESS — Run Date...: 25-SEP-01 — Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 ANALYTICAL — Analyst.: J KRAMER — Reviewer: S ENDERSON — Run Date...: 25-SEP-01 — Review Date: 26-SEP-01 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284414	PERKIN	IRON	1		1.02	mg/L	102	
CDL01	Q1284419	INORGAN	IRON	10		10.4	mg/L	104	
ICS-A	Q1284421	PERKIN	IRON	200		187.	mg/L	93.5	
CCV	Q1284422	INORGAN	IRON	5.00		4.88	mg/L	97.6	
BLA01	Q1284423	NA	IRON			< 0.0100	mg/L		
BLA02	Q1284002	NA	IRON			< 0.0100	mg/L		
LCS	Q1284003	SPEX	IRON	10.0		10.0	mg/L	100	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	IRON	0.255	1.00	1.26	mg/L	100.5	
DPS02	Q1284005	A567128	IRON	0.255	1.00	1.26	mg/L	100.5	0
CCV	Q1284424	INORGAN	IRON	5.00		4.94	mg/L	98.8	
BLA01	Q1284425	NA	IRON			< 0.0100	mg/L		
ICS-A	Q1284427	PERKIN-	IRON	200		188.	mg/L	94	

LEAD TRACE ICP EPA 200.7 REV. 4.4 — M416.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 PREP — Analyst.: M HALL — Reviewer: W WATNESS — Run Date...: 25-SEP-01 — Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
SAMPLE	A567128	Rep: 0	R420470
BLA02	Q1284006	NA	R420470
LCS	Q1284007	INORGAN	R420470
SPI02	Q1284008	A567128	R420470
DPS02	Q1284009	A567128	R420470

HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R420470 Analyst.: D DRABENSTOTT Run Date...: 01-OCT-01 Instrument: TRACE ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 02-OCT-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1286630	PERKIN-	LEAD	0.05		0.0462	mg/L	92.4	
CDL01	Q1286635	INORGAN	LEAD	0.5		0.488	mg/L	97.6	
ICS-A	Q1286637	PERKIN	LEAD	0.05		0.0587	mg/L	117.4	
CCV	Q1286638	INORGAN	LEAD	0.1		0.0986	mg/L	98.6	
BLA01	Q1286639	NA	LEAD			< 0.00200	mg/L		
BLA02	Q1284006	NA	LEAD			< 0.00200	mg/L		
LCS	Q1284007	INORGAN	LEAD	0.5		0.501	mg/L	100.2	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284008	A567128	LEAD	0	0.5	0.483	mg/L	96.6	
DPS02	Q1284009	A567128	LEAD	0	0.5	0.487	mg/L	97.4	.8
CCV	Q1286640	INORGAN	LEAD	0.1		0.102	mg/L	102	
BLA01	Q1286641	NA	LEAD			< 0.00200	mg/L		
CDL01	Q1286644	PERKIN-	LEAD	0.006		0.00475	mg/L	79.2	
ICS-A	Q1286646	PERKIN	LEAD	0.05		0.0578	mg/L	115.6	

MAGNESIUM ICP EPA 200.7 REV. 4.4 M418.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284416	SPEX	MAGNESIUM	20		19.2	mg/L	96	
ICS-A	Q1284421	PERKIN	MAGNESIUM	500		495.	mg/L	99	
CCV	Q1284422	INORGAN	MAGNESIUM	50.0		47.7	mg/L	95.4	
BLA01	Q1284423	NA	MAGNESIUM			< 0.0400	mg/L		
BLA02	Q1284002	NA	MAGNESIUM			< 0.0400	mg/L		
LCS	Q1284003	SPEX	MAGNESIUM	100		99.7	mg/L	99.7	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	MAGNESIUM	7.84	100	106.	mg/L	98.2	
DPS02	Q1284005	A567128	MAGNESIUM	7.84	100	107.	mg/L	99.2	1
CCV	Q1284424	INORGAN	MAGNESIUM	50.0		48.2	mg/L	96.4	
BLA01	Q1284425	NA	MAGNESIUM			< 0.0400	mg/L		
ICS-A	Q1284427	PERKIN-	MAGNESIUM	500		498.	mg/L	99.6	

MERCURY CVAA EPA 245.1 REV. 3.0 M420.2

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Run: R420032 Analyst.: J O'BRYAN Run Date...: 24-SEP-01
PREP Reviewer: S O'NEAL Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
LCS	Q1283621		R420162
BLA02	Q1283622		R420162

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run
SPI02	Q1283623	A567128	R420162
DPS02	Q1283624	A567128	R420162
SAMPLE	A567128	Rep: 0	R420162

Run: R420162 Analyst.: J O'BRYAN Run Date...: 25-SEP-01 Instrument: CVAA
ANALYTICAL Reviewer: S O'NEAL Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284535		MERCURY	0.002		0.00192	mg/L	96	
CDL01	Q1284539		MERCURY	0.0002		0.00021	mg/L	105	
CCV	Q1284542		MERCURY	0.003		0.00311	mg/L	103.7	
BLA01	Q1284543		MERCURY			< 0.00008	mg/L		
LCS	Q1283621		MERCURY	0.002		0.0021	mg/L	105	
BLA02	Q1283622		MERCURY			< 0.00008	mg/L		
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1283623	A567128	MERCURY	0	0.001	0.00106	mg/L	106	
DPS02	Q1283624	A567128	MERCURY	0	0.001	0.00105	mg/L	105	.9
CCV	Q1284544		MERCURY	0.003		0.00314	mg/L	104.7	
BLA01	Q1284545		MERCURY			< 0.00008	mg/L		
CDL01	Q1284576		MERCURY	0.0002		0.00024	mg/L	120	

NICKEL ICP EPA 200.7 REV. 4.4 M422.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284414	PERKIN	NICKEL	1		1.01	mg/L	101	
CDL01	Q1284419	INORGAN	NICKEL	10		10.3	mg/L	103	
ICS-A	Q1284421	PERKIN	NICKEL	1.00		0.920	mg/L	92	
CCV	Q1284422	INORGAN	NICKEL	5.00		4.86	mg/L	97.2	
BLA01	Q1284423	NA	NICKEL			< 0.00400	mg/L		
BLA02	Q1284002	NA	NICKEL			< 0.00400	mg/L		
LCS	Q1284003	SPEX	NICKEL	5.00		4.95	mg/L	99	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	NICKEL	0	0.500	0.497	mg/L	99.4	
DPS02	Q1284005	A567128	NICKEL	0	0.500	0.503	mg/L	100.6	1.2
CCV	Q1284424	INORGAN	NICKEL	5.00		4.94	mg/L	98.8	
BLA01	Q1284425	NA	NICKEL			< 0.00400	mg/L		
CDL01	Q1284426	PERKIN	NICKEL	0.080		0.0817	mg/L	102.1	
ICS-A	Q1284428	PERKIN	NICKEL	1.00		0.936	mg/L	93.6	

HERITAGE ENVIRONMENTAL SERVICES, LLC

POTASSIUM ICP EPA 200.7 REV. 4.4 — M426.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284415	PERKIN	POTASSIUM	10		9.75	mg/L	97.5	
ICV01	Q1284416	SPEX	POTASSIUM	20		20.8	mg/L	104	
CCV	Q1284422	INORGAN	POTASSIUM	50		52.5	mg/L	105	
BLA01	Q1284423	NA	POTASSIUM			< 0.0400	mg/L		
BLA02	Q1284002	NA	POTASSIUM			< 0.0400	mg/L		
LCS	Q1284003	SPEX	POTASSIUM	100		102.	mg/L	102	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	POTASSIUM	11.7	100	121.	mg/L	109.3	
DPS02	Q1284005	A567128	POTASSIUM	11.7	100	122.	mg/L	110.3	.9
CCV	Q1284424	INORGAN	POTASSIUM	50		53.1	mg/L	106.2	
BLA01	Q1284425	NA	POTASSIUM			< 0.0400	mg/L		

SODIUM ICP EPA 200.7 REV. 4.4 — M431.3

Prep: FAA OR ICP ACID DIGESTION EPA 200.0

Run: R420071 Analyst.: M HALL Run Date...: 25-SEP-01
PREP Reviewer: W WATNESS Review Date: 26-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1284002	NA	R420149
LCS	Q1284003	SPEX	R420149
SPI02	Q1284004	A567128	R420149
DPS02	Q1284005	A567128	R420149
SAMPLE	A567128	Rep: 0	R420149

Run: R420149 Analyst.: J KRAMER Run Date...: 25-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 26-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1284415	PERKIN	SODIUM	1		0.992	mg/L	99.2	
ICV01	Q1284416	SPEX	SODIUM	20		20.9	mg/L	104.5	
CCV	Q1284422	INORGAN	SODIUM	50		52.2	mg/L	104.4	
BLA01	Q1284423	NA	SODIUM			< 0.0400	mg/L		
BLA02	Q1284002	NA	SODIUM			< 0.0400	mg/L		
LCS	Q1284003	SPEX	SODIUM	100		102.	mg/L	102	
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						
SPI02	Q1284004	A567128	SODIUM	222.	100	342.	mg/L	120	
DPS02	Q1284005	A567128	SODIUM	222.	100	339.	mg/L	117	2.5
CCV	Q1284424	INORGAN	SODIUM	50		52.5	mg/L	105	
BLA01	Q1284425	NA	SODIUM			< 0.0400	mg/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

IDEM 525 EXTENDED PESTICIDES/SOC'S BY GC/MS EPA 525.2 REV. 2.0 0512.0

Prep: LIQUID - SOLID EXTRACTION (LSE) PH 2 EPA 525.2 REV. 2.0

Run: R420011 Analyst.: P SIMS Run Date...: 24-SEP-01
PREP Reviewer: C WILLHITE Review Date: 24-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1283442		R420950
LCS	Q1283443		R420950
SAMPLE	A567128	Rep: 0	R420950
SPI02	Q1280154	A565830	R419678

Run: R419678 Analyst.: J MINNIEAR, II Run Date...: 16-SEP-01 Instrument: GC/MS SVOA
ANALYTICAL Reviewer: L SMITH Review Date: 18-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and time of analysis	17-SEP-01	04:17:00				
SPI02	Q1280154	A565830	ISOPHORONE	0	2.11	2.29	ug/L	108.5	
SPI02	Q1280154	A565830	DICHLORVOS	0	2.11	1.78	ug/L	84.4	
SPI02	Q1280154	A565830	HEXACHLOROCYCLOPENTADIENE	0	2.11	0.99	ug/L	46.9	
SPI02	Q1280154	A565830	EPTC (ERADICANE)	0	2.11	2.18	ug/L	103.3	
SPI02	Q1280154	A565830	MEVINPHOS	0	2.11	1.73	ug/L	82	
SPI02	Q1280154	A565830	BUTYLATE	0	2.11	2.24	ug/L	106.2	
SPI02	Q1280154	A565830	VERNOLATE	0	2.11	2.25	ug/L	106.6	
SPI02	Q1280154	A565830	ETRIDIAZOLE	0	2.11	3.13	ug/L	148.3	
SPI02	Q1280154	A565830	DIMETHYLPHTHALATE	0	2.11	3	ug/L	142.2	
SPI02	Q1280154	A565830	PEBULATE (TILLAM)	0	2.11	2.36	ug/L	111.8	
SPI02	Q1280154	A565830	2,6-DINITROTOLUENE	0	2.11	1.33	ug/L	63	
SPI02	Q1280154	A565830	ACENAPHTHYLENE	0	2.11	1.31	ug/L	62.1	
SPI02	Q1280154	A565830	CHLORNEB	0	2.11	3.07	ug/L	145.5	
SPI02	Q1280154	A565830	(1) 2-CHLOROBIPHENYL	0	2.11	2.8	ug/L	132.7	
SPI02	Q1280154	A565830	PENTACHLOROBENZENE	0	2.11	1.97	ug/L	93.4	
SPI02	Q1280154	A565830	TEBUTHIURON	0	2.11	0	ug/L	0	
SPI02	Q1280154	A565830	2,4-DINITROTOLUENE	0	2.11	1.06	ug/L	50.2	
SPI02	Q1280154	A565830	MOLINATE	0	2.11	2.41	ug/L	114.2	
SPI02	Q1280154	A565830	DIETHYLPHTHALATE	0	2.11	2.74	ug/L	129.9	
SPI02	Q1280154	A565830	FLUORENE	0	2.11	3.13	ug/L	148.3	
SPI02	Q1280154	A565830	PROPACHLOR	0	2.11	2.66	ug/L	126.1	
SPI02	Q1280154	A565830	ETHOPROP	0	2.11	2.34	ug/L	110.9	
SPI02	Q1280154	A565830	CYCLOATE	0	2.11	2.93	ug/L	138.9	
SPI02	Q1280154	A565830	CHLOROPROPHAM	0	2.11	2.59	ug/L	122.7	
SPI02	Q1280154	A565830	TRIFLURALIN	0	2.11	1.56	ug/L	73.9	
SPI02	Q1280154	A565830	ALPHA-BHC	0	2.11	3.19	ug/L	151.2	
SPI02	Q1280154	A565830	(5) 2,3-DICHLOROBIPHENYL	0	2.11	2.83	ug/L	134.1	
SPI02	Q1280154	A565830	HEXACHLOROBENZENE	0	2.11	1.22	ug/L	57.8	
SPI02	Q1280154	A565830	ATRATON	0	2.11	0	ug/L	0	
SPI02	Q1280154	A565830	PROMETON (PRAMITOL)	0	2.11	0.305	ug/L	14.5	
SPI02	Q1280154	A565830	SIMAZINE	0	2.11	1.66	ug/L	78.7	
SPI02	Q1280154	A565830	ATRAZINE	0	4.21	4.34	ug/L	103.1	
SPI02	Q1280154	A565830	BETA-BHC	0	2.11	2.5	ug/L	118.5	
SPI02	Q1280154	A565830	PROPAZINE (MILOGARD)	0	2.11	2.31	ug/L	109.5	
SPI02	Q1280154	A565830	PENTACHLOROPHENOL	0	8.42	7.44	ug/L	88.4	
SPI02	Q1280154	A565830	GAMMA-BHC (LINDANE)	0	2.11	2.62	ug/L	124.2	
SPI02	Q1280154	A565830	TERBUFOS (COUNTER)	0	2.11	1.54	ug/L	73	
SPI02	Q1280154	A565830	PRONAMIDE	0	2.11	2.15	ug/L	101.9	
SPI02	Q1280154	A565830	DIAZINON	0	2.11	1.91	ug/L	90.5	
SPI02	Q1280154	A565830	PHENANTHRENE	0	2.11	2.4	ug/L	113.7	
SPI02	Q1280154	A565830	CHLOROTHALONIL (BRAVO)	0	2.11	2.39	ug/L	113.3	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI02	Q1280154	A565830	DISULFOTON	0	2.11	0.758	ug/L	35.9	
SPI02	Q1280154	A565830	ANTHRACENE	0	2.11	0.432	ug/L	20.5	
SPI02	Q1280154	A565830	METHYLPARAOXON	0	2.11	0.842	ug/L	39.9	
SPI02	Q1280154	A565830	TERBACIL	0	2.11	1.62	ug/L	76.8	
SPI02	Q1280154	A565830	DELTA-BHC	0	2.11	2.44	ug/L	115.6	
SPI02	Q1280154	A565830	2,4,5-TRICHLOROBIPHENYL	0	2.11	1.65	ug/L	78.2	
SPI02	Q1280154	A565830	ACETOCHLOR	0	2.11	2.74	ug/L	129.9	
SPI02	Q1280154	A565830	METRIBUZIN	0	2.11	1.42	ug/L	67.3	
SPI02	Q1280154	A565830	ALACHLOR	0	4.21	4.44	ug/L	105.5	
SPI02	Q1280154	A565830	SIMETRYN	0	2.11	0.232	ug/L	11	
SPI02	Q1280154	A565830	AMETRYN	0	2.11	0.853	ug/L	40.4	
SPI02	Q1280154	A565830	HEPTACHLOR	0	2.11	1.39	ug/L	65.9	
SPI02	Q1280154	A565830	PROMETRYN	0	2.11	1.46	ug/L	69.2	
SPI02	Q1280154	A565830	TERBUTRYN	0	2.11	0.99	ug/L	46.9	
SPI02	Q1280154	A565830	DI-N-BUTYLPHTHALATE	0	2.11	2.29	ug/L	108.5	
SPI02	Q1280154	A565830	BROMACIL	0	2.11	1.64	ug/L	77.7	
SPI02	Q1280154	A565830	2,2',4,4'-TETRACHLOROBIPHENYL	0	2.11	1.52	ug/L	72	
SPI02	Q1280154	A565830	ALDRIN	0	2.11	1.02	ug/L	48.3	
SPI02	Q1280154	A565830	METOLACHLOR	0	2.11	2.26	ug/L	107.1	
SPI02	Q1280154	A565830	CHLOROPYRIFOS (DURSBAN)	0	2.11	2.23	ug/L	105.7	
SPI02	Q1280154	A565830	DCPA (DACTHAL)	0	2.11	2.29	ug/L	108.5	
SPI02	Q1280154	A565830	CYANAZINE (BLADEX)	0	2.11	4.4	ug/L	208.5	
SPI02	Q1280154	A565830	TRIADIMEFON	0	2.11	1.59	ug/L	75.4	
SPI02	Q1280154	A565830	DIPHENAMID	0	2.11	2.61	ug/L	123.7	
SPI02	Q1280154	A565830	MGK 264	0	1.05	0.874	ug/L	83.2	
SPI02	Q1280154	A565830	PENDIMETHALIN	0	2.11	1.31	ug/L	62.1	
SPI02	Q1280154	A565830	HEPTACHLOR EPOXIDE	0	2.11	2.07	ug/L	98.1	
SPI02	Q1280154	A565830	2,2',3',4,6-PENTACHLOROBIPHENYL	0	2.11	1.71	ug/L	81	
SPI02	Q1280154	A565830	GAMMA-CHLORDANE	0	2.11	1.82	ug/L	86.3	
SPI02	Q1280154	A565830	STIROFOS	0	2.11	1.9	ug/L	90	
SPI02	Q1280154	A565830	BUTACHLOR	0	2.11	2.45	ug/L	116.1	
SPI02	Q1280154	A565830	ALPHA-CHLORDANE	0	2.11	1.9	ug/L	90	
SPI02	Q1280154	A565830	ENDOSULFAN I	0	2.11	2.11	ug/L	100	
SPI02	Q1280154	A565830	TRANS-NONACHLOR	0	2.11	1.81	ug/L	85.8	
SPI02	Q1280154	A565830	FENAMIPHOS	0	2.11	0.895	ug/L	42.4	
SPI02	Q1280154	A565830	NAPROPAMIDE	0	2.11	1.87	ug/L	88.6	
SPI02	Q1280154	A565830	TRICYCLAZOLE	0	2.11	0.137	ug/L	6.5	
SPI02	Q1280154	A565830	4,4'-DDE	0	2.11	2.14	ug/L	101.4	
SPI02	Q1280154	A565830	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0	2.11	1.81	ug/L	85.8	
SPI02	Q1280154	A565830	PYRENE	0	2.11	1.52	ug/L	72	
SPI02	Q1280154	A565830	DIELDRIN	0	2.11	1.38	ug/L	65.4	
SPI02	Q1280154	A565830	CARBOXIN	0	2.11	0.147	ug/L	7	
SPI02	Q1280154	A565830	ENDRIN	0	2.11	0.99	ug/L	46.9	
SPI02	Q1280154	A565830	CHLOROBENZILATE	0	2.11	0	ug/L	0	
SPI02	Q1280154	A565830	ENDOSULFAN II	0	2.11	2.44	ug/L	115.6	
SPI02	Q1280154	A565830	4,4'-DDD	0	2.11	1.81	ug/L	85.8	
SPI02	Q1280154	A565830	ENDRIN ALDEHYDE	0	2.11	1.51	ug/L	71.6	
SPI02	Q1280154	A565830	NORFLURAZON	0	2.11	1.18	ug/L	55.9	
SPI02	Q1280154	A565830	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT	0	2.11	1.54	ug/L	73	
SPI02	Q1280154	A565830	ENDOSULFAN SULFATE	0	2.11	0.263	ug/L	12.5	
SPI02	Q1280154	A565830	4,4'-DDT	0	2.11	1.6	ug/L	75.8	
SPI02	Q1280154	A565830	HEXAZINONE	0	2.11	0.642	ug/L	30.4	
SPI02	Q1280154	A565830	DI(2-ETHYLHEXYL)ADIPATE	0	2.11	2.3	ug/L	109	
SPI02	Q1280154	A565830	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0	2.11	1.93	ug/L	91.5	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI02	Q1280154	A565830	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRAC	0	2.11	1.62	ug/L	76.8	
SPI02	Q1280154	A565830	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN	0	2.11	1.61	ug/L	76.3	
SPI02	Q1280154	A565830	METHOXYCHLOR	0	2.11	1.52	ug/L	72	
SPI02	Q1280154	A565830	CHRYSENE	0	2.11	1.96	ug/L	92.9	
SPI02	Q1280154	A565830	BIS(2-ETHYLHEXYL)PHTHALATE	0	2.11	1.28	ug/L	60.7	
SPI02	Q1280154	A565830	FENARIMOL	0	2.11	0	ug/L	0	
SPI02	Q1280154	A565830	CIS-PERMETHRIN	0	1.81	1.22	ug/L	67.4	
SPI02	Q1280154	A565830	TRANS-PERMETHRIN	0	0.295	0.19	ug/L	64.4	
SPI02	Q1280154	A565830	BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR	0	2.11	1.51	ug/L	71.6	
SPI02	Q1280154	A565830	BENZO(K)FLUORANTHENE	0	2.11	1.73	ug/L	82	
SPI02	Q1280154	A565830	BENZO(A)PYRENE	0	2.11	1.03	ug/L	48.8	
SPI02	Q1280154	A565830	FLURIDONE	0	2.11	0	ug/L	0	
SPI02	Q1280154	A565830	INDENO(1,2,3-CD)PYRENE	0	2.11	1.45	ug/L	68.7	
SPI02	Q1280154	A565830	DIBENZ(A,H)ANTHRACENE	0	2.11	1.42	ug/L	67.3	
SPI02	Q1280154	A565830	BENZO(G,H,I)PERYLENE	0	2.11	1.78	ug/L	84.4	

Run: R420950 Analyst.: J MINNIEAR, II Run Date...: 08-OCT-01 Instrument: GC/MS SVOA
ANALYTICAL Reviewer: L SMITH Review Date: 10-OCT-01

			Date and time of analysis	08-OCT-01	01:58:00				
CAL01	Q1289813		ISOPHORONE	1.4235					5.2
CAL01	Q1289813		DICHLORVOS	0.9228					11.7
CAL01	Q1289813		HEXACHLOROCYCLOPENTADIENE	0.1461					20
CAL01	Q1289813		EPTC (ERADICANE)	0.5831					6.5
CAL01	Q1289813		MEVINPHOS	0.7759					20.4
CAL01	Q1289813		VERNOLATE	0.6625					4.6
CAL01	Q1289813		ETRIDIAZOLE	0.1151					24.1
CAL01	Q1289813		DIMETHYLPHTHALATE	1.2852					3.4
CAL01	Q1289813		PEBULATE (TILLAM)	0.6748					5.1
CAL01	Q1289813		2,6-DINITROTOLUENE	0.2136					17.2
CAL01	Q1289813		ACENAPHTHYLENE	1.8479					4.7
CAL01	Q1289813		CHLORNEB	0.4029					3.2
CAL01	Q1289813		(1) 2-CHLOROBIPHENYL	0.8810					6.5
CAL01	Q1289813		PENTACHLOROBENZENE	0.2091					5.5
CAL01	Q1289813		TEBUTHIURON	0.1490					43.9
CAL01	Q1289813		2,4-DINITROTOLUENE	0.1776					27.1
CAL01	Q1289813		MOLINATE	0.8186					5.1
CAL01	Q1289813		DIETHYLPHTHALATE	1.3084					7
CAL01	Q1289813		FLUORENE	1.0498					6
CAL01	Q1289813		PROPACHLOR	0.6934					10
CAL01	Q1289813		ETHOPROP	0.2930					12.9
CAL01	Q1289813		CYCLOATE	0.5658					8.3
CAL01	Q1289813		CHLOROPROPHAM	0.3663					15.9
CAL01	Q1289813		TRIFLURALIN	0.1471					24.6
CAL01	Q1289813		ALPHA-BHC	0.2047					8.8
CAL01	Q1289813		(5) 2,3-DICHLOROBIPHENYL	0.4907					7
CAL01	Q1289813		HEXACHLOROBENZENE	0.2821					11.7
CAL01	Q1289813		ATRATON	0.1726					27.1
CAL01	Q1289813		PROMETON (PRAMITOL)	0.1952					21.9
CAL01	Q1289813		ATRAZINE	0.2316					13.8
CAL01	Q1289813		BETA-BHC	0.1478					12.6
CAL01	Q1289813		PROPAZINE (MILOGARD)	0.2303					4.5
CAL01	Q1289813		PENTACHLOROPHENOL	0.0558					39.7
CAL01	Q1289813		GAMMA-BHC (LINDANE)	0.1840					11.1
CAL01	Q1289813		TERBUFOS (COUNTER)	0.2517					12.7
CAL01	Q1289813		PRONAMIDE	0.3826					17.5

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CAL01	Q1289813		DIAZINON	0.3120					9.2
CAL01	Q1289813		PHENANTHRENE	1.2310					3.8
CAL01	Q1289813		CHLOROTHALONIL (BRAVO)	0.1663					22.1
CAL01	Q1289813		DISULFOTON	0.8796					9.8
CAL01	Q1289813		ANTHRACENE	1.1309					7.1
CAL01	Q1289813		METHYLPARAOXON	0.1866					27.2
CAL01	Q1289813		TERBACIL	0.2582					18.8
CAL01	Q1289813		DELTA-BHC	0.1342					6.5
CAL01	Q1289813		2,4,5-TRICHLOROBIPHENYL	0.3246					12.4
CAL01	Q1289813		ACETOCHLOR	0.1904					12.1
CAL01	Q1289813		ALACHLOR	0.2638					5.2
CAL01	Q1289813		SIMETRYN	0.2283					26.5
CAL01	Q1289813		AMETRYN	0.1961					18.9
CAL01	Q1289813		HEPTACHLOR	0.3643					8.7
CAL01	Q1289813		TERBUTRYN	0.2052					15.7
CAL01	Q1289813		DI-N-BUTYLPHTHALATE	2.3138					7.1
CAL01	Q1289813		BROMACIL	0.1734					19
CAL01	Q1289813		2,2',4,4'-TETRACHLOROBIPHENYL	0.2043					13.1
CAL01	Q1289813		ALDRIN	0.2836					14.7
CAL01	Q1289813		CHLOROPYRIFOS (DURSBAN)	0.0460					31.9
CAL01	Q1289813		DCPA (DACTHAL)	0.2023					2.5
CAL01	Q1289813		CYANAZINE (BLADEX)	0.0163					32.9
CAL01	Q1289813		TRIADIMEFON	0.3403					23.8
CAL01	Q1289813		DIPHENAMID	0.4789					18.7
CAL01	Q1289813		MGK 264	0.2809					11.8
CAL01	Q1289813		PENDIMETHALIN	0.1339					43.6
CAL01	Q1289813		HEPTACHLOR EPOXIDE	0.1924					29.3
CAL01	Q1289813		2,2',3',4,6-PENTACHLOROBIPHENYL	0.1418					4.9
CAL01	Q1289813		GAMMA-CHLORDANE	0.1130					11.7
CAL01	Q1289813		STIROFOS	0.2907					20.1
CAL01	Q1289813		BUTACHLOR	0.2275					12.3
CAL01	Q1289813		ALPHA-CHLORDANE	0.1011					5.3
CAL01	Q1289813		TRANS-NONACHLOR	0.1136					3.8
CAL01	Q1289813		FENAMIPHOS	0.0388					41.5
CAL01	Q1289813		NAPROPAMIDE	0.5515					15.2
CAL01	Q1289813		TRICYCLAZOLE	0.0427					31.2
CAL01	Q1289813		4,4'-DDE	0.1870					5.5
CAL01	Q1289813		2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0.1349					1.8
CAL01	Q1289813		PYRENE	2.7281					11.2
CAL01	Q1289813		DIELDRIN	1.0790					14.6
CAL01	Q1289813		CARBOXIN	0.9452					21.4
CAL01	Q1289813		ENDRIN	0.2159					22.9
CAL01	Q1289813		CHLOROBENZILATE	0.9104					29.7
CAL01	Q1289813		4,4'-DDD	0.8828					13.8
CAL01	Q1289813		ENDRIN ALDEHYDE	0.3151					16
CAL01	Q1289813		NORFLURAZON	0.3017					27.1
CAL01	Q1289813		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT	1.5599					16.2
CAL01	Q1289813		ENDOSULFAN SULFATE	0.0834					29.2
CAL01	Q1289813		4,4'-DDT	0.5458					28.1
CAL01	Q1289813		HEXAZINONE	0.7178					25.1
CAL01	Q1289813		DI(2-ETHYLHEXYL)ADIPATE	1.7187					19.3
CAL01	Q1289813		2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0.2171					15.1
CAL01	Q1289813		2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN	0.3209					13.4
CAL01	Q1289813		METHOXYCHLOR	0.8359					29.4

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CAL01	Q1289813		CHRYSENE	1.2053					4.7
CAL01	Q1289813		BIS(2-ETHYLHEXYL)PHTHALATE	2.0755					15.4
CAL01	Q1289813		FENARIMOL	0.2053					21.8
CAL01	Q1289813		CIS-PERMETHRIN	1.7190					16.9
CAL01	Q1289813		TRANS-PERMETHRIN	1.6542					17.3
CAL01	Q1289813		BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR	0.8953					6.7
CAL01	Q1289813		BENZO(K)FLUORANTHENE	0.8939					7.8
CAL01	Q1289813		BENZO(A)PYRENE	0.7653					7.6
CAL01	Q1289813		FLURIDONE	0.1543					27.6
CAL01	Q1289813		INDENO(1,2,3-CD)PYRENE	0.7028					14.3
CAL01	Q1289813		DIBENZ(A,H)ANTHRACENE	0.5473					8.4
CAL01	Q1289813		BENZO(G,H,I)PERYLENE	0.6023					11.3
CAL01	Q1289813		2-NITRO-M-XYLENE	0.3005					26.3
CAL01	Q1289813		TRIPHENYL ESTER PHOSPHORIC ACID	0.2856					28.8
CAL01	Q1289813		PERYLENE-D12	0.5796					28.8
			Date and time of analysis	08-OCT-01	07:56:00				
BLA02	Q1283442		ISOPHORONE			BDL 0.10	ug/L		
BLA02	Q1283442		DICHLORVOS			BDL 0.10	ug/L		
BLA02	Q1283442		HEXACHLOROCYCLOPENTADIENE			BDL 0.10	ug/L		
BLA02	Q1283442		EPTC (ERADICANE)			BDL 0.10	ug/L		
BLA02	Q1283442		MEVINPHOS			BDL 0.10	ug/L		
BLA02	Q1283442		VERNOLATE			BDL 0.10	ug/L		
BLA02	Q1283442		ETRIDIAZOLE			BDL 0.10	ug/L		
BLA02	Q1283442		DIMETHYLPHTHALATE			BDL 0.10	ug/L		
BLA02	Q1283442		PEBULATE (TILLAM)			BDL 0.10	ug/L		
BLA02	Q1283442		2,6-DINITROTOLUENE			BDL 0.10	ug/L		
BLA02	Q1283442		ACENAPHTHYLENE			BDL 0.10	ug/L		
BLA02	Q1283442		CHLORNEB			BDL 0.10	ug/L		
BLA02	Q1283442		(1) 2-CHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1283442		PENTACHLOROBENZENE			BDL 0.10	ug/L		
BLA02	Q1283442		TEBUTHIURON			BDL 0.10	ug/L		
BLA02	Q1283442		2,4-DINITROTOLUENE			BDL 0.10	ug/L		
BLA02	Q1283442		MOLINATE			BDL 0.10	ug/L		
BLA02	Q1283442		DIETHYLPHTHALATE			BDL 0.10	ug/L		
BLA02	Q1283442		FLUORENE			BDL 0.10	ug/L		
BLA02	Q1283442		PROPACHLOR			BDL 0.10	ug/L		
BLA02	Q1283442		ETHOPROP			BDL 0.10	ug/L		
BLA02	Q1283442		CYCLOATE			BDL 0.10	ug/L		
BLA02	Q1283442		CHLOROPROPHAM			BDL 0.10	ug/L		
BLA02	Q1283442		TRIFLURALIN			BDL 0.10	ug/L		
BLA02	Q1283442		ALPHA-BHC			BDL 0.10	ug/L		
BLA02	Q1283442		(5) 2,3-DICHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1283442		HEXACHLOROBENZENE			BDL 0.10	ug/L		
BLA02	Q1283442		ATRATON			BDL 0.10	ug/L		
BLA02	Q1283442		PROMETON (PRAMITOL)			BDL 0.10	ug/L		
BLA02	Q1283442		ATRAZINE			BDL 0.20	ug/L		
BLA02	Q1283442		BETA-BHC			BDL 0.10	ug/L		
BLA02	Q1283442		PROPAZINE (MILOGARD)			BDL 0.10	ug/L		
BLA02	Q1283442		PENTACHLOROPHENOL			BDL 0.40	ug/L		
BLA02	Q1283442		GAMMA-BHC (LINDANE)			BDL 0.10	ug/L		
BLA02	Q1283442		TERBUFOS (COUNTER)			BDL 0.10	ug/L		
BLA02	Q1283442		PRONAMIDE			BDL 0.10	ug/L		
BLA02	Q1283442		DIAZINON			BDL 0.10	ug/L		
BLA02	Q1283442		PHENANTHRENE			BDL 0.10	ug/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q1283442		CHLOROTHALONIL (BRAVO)			BDL 0.10	ug/L		
BLA02	Q1283442		DISULFOTON			BDL 0.10	ug/L		
BLA02	Q1283442		ANTHRACENE			BDL 0.10	ug/L		
BLA02	Q1283442		METHYLPARAOXON			BDL 0.10	ug/L		
BLA02	Q1283442		TERBACIL			BDL 0.10	ug/L		
BLA02	Q1283442		DELTA-BHC			BDL 0.10	ug/L		
BLA02	Q1283442		2,4,5-TRICHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1283442		ACETOCHLOR			BDL 0.10	ug/L		
BLA02	Q1283442		ALACHLOR			BDL 0.20	ug/L		
BLA02	Q1283442		SIMETRYN			BDL 0.10	ug/L		
BLA02	Q1283442		AMETRYN			BDL 0.10	ug/L		
BLA02	Q1283442		HEPTACHLOR			BDL 0.10	ug/L		
BLA02	Q1283442		TERBUTRYN			BDL 0.10	ug/L		
BLA02	Q1283442		DI-N-BUTYLPHTHALATE			BDL 0.10	ug/L		
BLA02	Q1283442		BROMACIL			BDL 0.10	ug/L		
BLA02	Q1283442		2,2',4,4'-TETRACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1283442		ALDRIN			BDL 0.10	ug/L		
BLA02	Q1283442		CHLOROPYRIFOS (DURSBAN)			BDL 0.10	ug/L		
BLA02	Q1283442		DCPA (DACTHAL)			BDL 0.10	ug/L		
BLA02	Q1283442		CYANAZINE (BLADEX)			BDL 0.10	ug/L		
BLA02	Q1283442		TRIADIMEFON			BDL 0.10	ug/L		
BLA02	Q1283442		DIPHENAMID			BDL 0.10	ug/L		
BLA02	Q1283442		MGK 264			BDL 0.05	ug/L		
BLA02	Q1283442		PENDIMETHALIN			BDL 0.10	ug/L		
BLA02	Q1283442		HEPTACHLOR EPOXIDE			BDL 0.10	ug/L		
BLA02	Q1283442		2,2',3',4,6-PENTACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1283442		GAMMA-CHLORDANE			BDL 0.10	ug/L		
BLA02	Q1283442		STIROFOS			BDL 0.10	ug/L		
BLA02	Q1283442		BUTACHLOR			BDL 0.10	ug/L		
BLA02	Q1283442		ALPHA-CHLORDANE			BDL 0.10	ug/L		
BLA02	Q1283442		TRANS-NONACHLOR			BDL 0.10	ug/L		
BLA02	Q1283442		FENAMIPHOS			BDL 0.10	ug/L		
BLA02	Q1283442		NAPROPAMIDE			BDL 0.10	ug/L		
BLA02	Q1283442		TRICYCLAZOLE			BDL 0.10	ug/L		
BLA02	Q1283442		4,4'-DDE			BDL 0.10	ug/L		
BLA02	Q1283442		2,2',4,4',5,6'-HEXACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1283442		PYRENE			BDL 0.10	ug/L		
BLA02	Q1283442		DIELDRIN			BDL 0.10	ug/L		
BLA02	Q1283442		CARBOXIN			BDL 0.10	ug/L		
BLA02	Q1283442		ENDRIN			BDL 0.10	ug/L		
BLA02	Q1283442		CHLOROBENZILATE			BDL 0.10	ug/L		
BLA02	Q1283442		4,4'-DDD			BDL 0.10	ug/L		
BLA02	Q1283442		ENDRIN ALDEHYDE			BDL 0.10	ug/L		
BLA02	Q1283442		NORFLURAZON			BDL 0.10	ug/L		
BLA02	Q1283442		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT			BDL 0.10	ug/L		
BLA02	Q1283442		ENDOSULFAN SULFATE			BDL 0.10	ug/L		
BLA02	Q1283442		4,4'-DDT			BDL 0.10	ug/L		
BLA02	Q1283442		HEXAZINONE			BDL 0.10	ug/L		
BLA02	Q1283442		DI(2-ETHYLHEXYL)ADIPATE			BDL 0.10	ug/L		
BLA02	Q1283442		2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1283442		2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN			BDL 0.10	ug/L		
BLA02	Q1283442		METHOXYCHLOR			BDL 0.10	ug/L		
BLA02	Q1283442		CHRYSENE			BDL 0.10	ug/L		
BLA02	Q1283442		BIS(2-ETHYLHEXYL)PHTHALATE			BDL 0.10	ug/L		

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q1283442		FENARIMOL			BDL 0.10	ug/L		
BLA02	Q1283442		CIS-PERMETHRIN			BDL 0.10	ug/L		
BLA02	Q1283442		TRANS-PERMETHRIN			BDL 0.10	ug/L		
BLA02	Q1283442		BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR			BDL 0.10	ug/L		
BLA02	Q1283442		BENZO(K)FLUORANTHENE			BDL 0.10	ug/L		
BLA02	Q1283442		BENZO(A)PYRENE			BDL 0.10	ug/L		
BLA02	Q1283442		FLURIDONE			BDL 0.10	ug/L		
BLA02	Q1283442		INDENO(1,2,3-CD)PYRENE			BDL 0.10	ug/L		
BLA02	Q1283442		DIBENZ(A,H)ANTHRACENE			BDL 0.10	ug/L		
BLA02	Q1283442		BENZO(G,H,I)PERYLENE			BDL 0.10	ug/L		
BLA02	Q1283442		2-NITRO-M-XYLENE					92	
BLA02	Q1283442		TRIPHENYL ESTER PHOSPHORIC ACID					104	
BLA02	Q1283442		PERYLENE-D12					94	
BLA02	Q1283442		...						
BLA02	Q1283442		TENTATIVELY IDENTIFIED COMPOUNDS						
BLA02	Q1283442		----------						
BLA02	Q1283442		UNKNOWN			J 5.8	ug/L		
			Date and time of analysis	08-OCT-01	08:48:00				
LCS	Q1283443		ISOPHORONE	2		1.98	ug/L	99	
LCS	Q1283443		DICHLORVOS	2		1.79	ug/L	89.5	
LCS	Q1283443		EPTC (ERADICANE)	2		1.74	ug/L	87	
LCS	Q1283443		MEVINPHOS	2		1.67	ug/L	83.5	
LCS	Q1283443		VERNOLATE	2		1.89	ug/L	94.5	
LCS	Q1283443		ETRIDIAZOLE	2		1.93	ug/L	96.5	
LCS	Q1283443		DIMETHYLPHTHALATE	2		1.96	ug/L	98	
LCS	Q1283443		PEBULATE (TILLAM)	2		1.8	ug/L	90	
LCS	Q1283443		2,6-DINITROTOLUENE	2		1.19	ug/L	59.5	
LCS	Q1283443		ACENAPHTHYLENE	2		1.87	ug/L	93.5	
LCS	Q1283443		CHLORNEB	2		1.97	ug/L	98.5	
LCS	Q1283443		(1) 2-CHLOROBIPHENYL	2		1.86	ug/L	93	
LCS	Q1283443		PENTACHLOROBENZENE	2		1.54	ug/L	77	
LCS	Q1283443		TEBUTHIURON	2		I 0.02	ug/L	1	
LCS	Q1283443		2,4-DINITROTOLUENE	2		0.94	ug/L	47	
LCS	Q1283443		MOLINATE	2		1.93	ug/L	96.5	
LCS	Q1283443		DIETHYLPHTHALATE	2		1.91	ug/L	95.5	
LCS	Q1283443		FLUORENE	2		2.04	ug/L	102	
LCS	Q1283443		PROPACHLOR	2		1.99	ug/L	99.5	
LCS	Q1283443		ETHOPROP	2		1.86	ug/L	93	
LCS	Q1283443		CYCLOATE	2		1.86	ug/L	93	
LCS	Q1283443		CHLOROPROPHAM	2		1.81	ug/L	90.5	
LCS	Q1283443		TRIFLURALIN	2		1.23	ug/L	61.5	
LCS	Q1283443		ALPHA-BHC	2		1.73	ug/L	86.5	
LCS	Q1283443		(5) 2,3-DICHLOROBIPHENYL	2		1.83	ug/L	91.5	
LCS	Q1283443		HEXACHLOROBENZENE	2		1.5	ug/L	75	
LCS	Q1283443		ATRATON	2		I 0.27	ug/L	13.5	
LCS	Q1283443		PROMETON (PRAMITOL)	2		0.6	ug/L	30	
LCS	Q1283443		SIMAZINE	2		1.59	ug/L	79.5	
LCS	Q1283443		ATRAZINE	4		3.64	ug/L	91	
LCS	Q1283443		BETA-BHC	2		1.96	ug/L	98	
LCS	Q1283443		PROPAZINE (MILOGARD)	2		1.83	ug/L	91.5	
LCS	Q1283443		PENTACHLOROPHENOL	8		I 0.06	ug/L	0.8	
LCS	Q1283443		GAMMA-BHC (LINDANE)	2		1.79	ug/L	89.5	
LCS	Q1283443		TERBUFOS (COUNTER)	2		1.58	ug/L	79	
LCS	Q1283443		PRONAMIDE	2		1.64	ug/L	82	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS	Q1283443		DIAZINON	2		1.72	ug/L	86	
LCS	Q1283443		PHENANTHRENE	2		1.85	ug/L	92.5	
LCS	Q1283443		CHLOROTHALONIL (BRAVO)	2		2.18	ug/L	109	
LCS	Q1283443		DISULFOTON	2		1.86	ug/L	93	
LCS	Q1283443		ANTHRACENE	2		1.69	ug/L	84.5	
LCS	Q1283443		METHYLPARAOXON	2		1.33	ug/L	66.5	
LCS	Q1283443		TERBACIL	2		1.5	ug/L	75	
LCS	Q1283443		DELTA-BHC	2		1.83	ug/L	91.5	
LCS	Q1283443		2,4,5-TRICHLOROBIPHENYL	2		1.55	ug/L	77.5	
LCS	Q1283443		ACETOCHLOR	2		2.19	ug/L	109.5	
LCS	Q1283443		METRIBUZIN	2		1.21	ug/L	60.5	
LCS	Q1283443		ALACHLOR	4		3.73	ug/L	93.3	
LCS	Q1283443		SIMETRYN	2		0.82	ug/L	41	
LCS	Q1283443		AMETRYN	2		1.18	ug/L	59	
LCS	Q1283443		HEPTACHLOR	2		1.34	ug/L	67	
LCS	Q1283443		PROMETRYN	2		1.48	ug/L	74	
LCS	Q1283443		TERBUTRYN	2		1.01	ug/L	50.5	
LCS	Q1283443		DI-N-BUTYLPHTHALATE	2		1.71	ug/L	85.5	
LCS	Q1283443		BROMACIL	2		1.64	ug/L	82	
LCS	Q1283443		2,2',4,4'-TETRACHLOROBIPHENYL	2		1.46	ug/L	73	
LCS	Q1283443		ALDRIN	2		1.42	ug/L	71	
LCS	Q1283443		METOLACHLOR	2		1.76	ug/L	88	
LCS	Q1283443		CHLOROPYRIFOS (DURSBAN)	2		1.7	ug/L	85	
LCS	Q1283443		DCPA (DACTHAL)	2		1.67	ug/L	83.5	
LCS	Q1283443		CYANAZINE (BLADEX)	2		1.53	ug/L	76.5	
LCS	Q1283443		TRIADIMEFON	2		1.29	ug/L	64.5	
LCS	Q1283443		DIPHENAMID	2		1.85	ug/L	92.5	
LCS	Q1283443		MGK 264	1		0.91	ug/L	91	
LCS	Q1283443		PENDIMETHALIN	2		1.19	ug/L	59.5	
LCS	Q1283443		HEPTACHLOR EPOXIDE	2		1.59	ug/L	79.5	
LCS	Q1283443		2,2',3',4,6-PENTACHLOROBIPHENYL	2		1.52	ug/L	76	
LCS	Q1283443		GAMMA-CHLORDANE	2		1.31	ug/L	65.5	
LCS	Q1283443		STIROFOS	2		1.65	ug/L	82.5	
LCS	Q1283443		BUTACHLOR	2		1.67	ug/L	83.5	
LCS	Q1283443		ALPHA-CHLORDANE	2		1.48	ug/L	74	
LCS	Q1283443		ENDOSULFAN I	2		1.6	ug/L	80	
LCS	Q1283443		TRANS-NONACHLOR	2		1.55	ug/L	77.5	
LCS	Q1283443		FENAMIPHOS	2		0.98	ug/L	49	
LCS	Q1283443		NAPROPAMIDE	2		1.75	ug/L	87.5	
LCS	Q1283443		TRICYCLAZOLE	2		! 0.16	ug/L	8	
LCS	Q1283443		4,4'-DDE	2		1.5	ug/L	75	
LCS	Q1283443		2,2',4,4',5,6'-HEXACHLOROBIPHENYL	2		1.39	ug/L	69.5	
LCS	Q1283443		PYRENE	2		2.06	ug/L	103	
LCS	Q1283443		DIELDRIN	2		1.86	ug/L	93	
LCS	Q1283443		CARBOXIN	2		1.82	ug/L	91	
LCS	Q1283443		ENDRIN	2		1.48	ug/L	74	
LCS	Q1283443		CHLOROBENZILATE	2		! 0.10	ug/L	5	
LCS	Q1283443		ENDOSULFAN II	2		1.99	ug/L	99.5	
LCS	Q1283443		4,4'-DDD	2		1.73	ug/L	86.5	
LCS	Q1283443		ENDRIN ALDEHYDE	2		1.89	ug/L	94.5	
LCS	Q1283443		NORFLURAZON	2		1.47	ug/L	73.5	
LCS	Q1283443		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT	2		1.75	ug/L	87.5	
LCS	Q1283443		ENDOSULFAN SULFATE	2		1.25	ug/L	62.5	
LCS	Q1283443		4,4'-DDT	2		1.7	ug/L	85	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS	Q1283443		HEXAZINONE	2		1.33	ug/L	66.5	
LCS	Q1283443		DI(2-ETHYLHEXYL)ADIPATE	2		1.87	ug/L	93.5	
LCS	Q1283443		2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	2		1.84	ug/L	92	
LCS	Q1283443		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRAC	2		1.82	ug/L	91	
LCS	Q1283443		2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN	2		1.7	ug/L	85	
LCS	Q1283443		METHOXYCHLOR	2		1.69	ug/L	84.5	
LCS	Q1283443		CHRYSENE	2		1.92	ug/L	96	
LCS	Q1283443		BIS(2-ETHYLHEXYL)PHTHALATE	2		1.68	ug/L	84	
LCS	Q1283443		FENARIMOL	2		! 0.4	ug/L	20	
LCS	Q1283443		CIS-PERMETHRIN	1.72		1.24	ug/L	72.1	
LCS	Q1283443		TRANS-PERMETHRIN	0.28		0.15	ug/L	53.6	
LCS	Q1283443		BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR	2		1.58	ug/L	79	
LCS	Q1283443		BENZO(K)FLUORANTHENE	2		1.66	ug/L	83	
LCS	Q1283443		BENZO(A)PYRENE	2		1.45	ug/L	72.5	
LCS	Q1283443		FLURIDONE	2		! 0.41	ug/L	20.5	
LCS	Q1283443		INDENO(1,2,3-CD)PYRENE	2		1.22	ug/L	61	
LCS	Q1283443		DIBENZ(A,H)ANTHRACENE	2		1.17	ug/L	58.5	
LCS	Q1283443		BENZO(G,H,I)PERYLENE	2		1.21	ug/L	60.5	
			Date and time of analysis	08-OCT-01	09:39:00				
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						

Comments

Q1283442 Sample failed method internal standard area criteria. Sample reanalyzed with no improvement.

REGULATED & UNREGULATED VOC'S IN DRINKING WATER EPA 524.2 REV. 4.1 0516.9

Run: R420460 Analyst.: R SHAMP Run Date...: 28-SEP-01 Instrument: GC/MS VOA
ANALYTICAL Reviewer: H WILLIAMS Review Date: 02-OCT-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and time of analysis	28-SEP-01	06:40:00				
CCVD	Q1286682		DICHLORODIFLUOROMETHANE	0.7854		0.6385			18.7
CCVD	Q1286682		CHLOROMETHANE	0.5110		0.4347			14.9
CCVD	Q1286682		VINYL CHLORIDE	0.5037		0.4620			8.3
CCVD	Q1286682		BROMOMETHANE	0.3369		0.3713			10.2
CCVD	Q1286682		CHLOROETHANE	0.2911		0.2915			.1
CCVD	Q1286682		TRICHLOROFLUOROMETHANE	1.2541		1.2430			.9
CCVD	Q1286682		1,1-DICHLOROETHENE	0.5002		0.4559			8.9
CCVD	Q1286682		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.3330		0.3065			8
CCVD	Q1286682		TRANS-1,2-DICHLOROETHENE	0.5423		0.5020			7.4
CCVD	Q1286682		1,1-DICHLOROETHANE	1.1477		1.0483			8.7
CCVD	Q1286682		2,2-DICHLOROPROPANE	1.3520		1.3885			2.7
CCVD	Q1286682		CIS-1,2-DICHLOROETHENE	0.5266		0.5545			5.3
CCVD	Q1286682		CHLOROFORM	1.1677		1.1796			1
CCVD	Q1286682		BROMOCHLOROMETHANE	0.1550		0.1389			10.4
CCVD	Q1286682		1,1,1-TRICHLOROETHANE	1.3667		1.4164			3.6
CCVD	Q1286682		1,1-DICHLOROPROPENE	0.5881		0.6855			16.6
CCVD	Q1286682		CARBON TETRACHLORIDE	2.4045		2.6047			8.3
CCVD	Q1286682		1,2-DICHLOROETHANE	0.9910		0.9261			6.5
CCVD	Q1286682		BENZENE	3.7526		4.1064			9.4
CCVD	Q1286682		TRICHLOROETHENE	1.3154		1.4126			7.4
CCVD	Q1286682		1,2-DICHLOROPROPANE	0.5210		0.5175			.7
CCVD	Q1286682		DIBROMOMETHANE	0.3981		0.4215			5.9

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVD	Q1286682		CIS-1,3-DICHLOROPROPENE	1.3707		1.4259			4
CCVD	Q1286682		TOLUENE	4.2433		4.7474			11.9
CCVD	Q1286682		TRANS-1,3-DICHLOROPROPENE	0.9740		0.9688			.5
CCVD	Q1286682		1,1,2-TRICHLOROETHANE	0.4485		0.4719			5.2
CCVD	Q1286682		1,3-DICHLOROPROPANE	0.8786		0.9033			2.8
CCVD	Q1286682		TETRACHLOROETHENE	1.7224		1.9985			16
CCVD	Q1286682		CHLOROBENZENE	2.4307		2.6781			10.2
CCVD	Q1286682		ETHYL BENZENE	1.5182		1.7154			13
CCVD	Q1286682		1,1,1,2-TETRACHLOROETHANE	0.9473		1.0059			6.2
CCVD	Q1286682		M/P-XYLENE	1.9350		2.1247			9.8
CCVD	Q1286682		O-XYLENE	1.6844		1.8875			12.1
CCVD	Q1286682		STYRENE	2.4040		2.6654			10.9
CCVD	Q1286682		ISOPROPYLBENZENE (CUMENE)	6.2005		7.0438			13.6
CCVD	Q1286682		BROMOFORM	0.3396		0.3607			6.2
CCVD	Q1286682		1,1,2,2-TETRACHLOROETHANE	0.4948		0.5640			14
CCVD	Q1286682		N-PROPYLBENZENE	0.8980		1.0236			14
CCVD	Q1286682		BROMOBENZENE	2.4522		2.6357			7.5
CCVD	Q1286682		1,3,5-TRIMETHYLBENZENE	4.5716		5.2135			14
CCVD	Q1286682		2-CHLOROTOLUENE (O-CHLOROTOLUENE)	1.0790		1.2382			14.8
CCVD	Q1286682		4-CHLOROTOLUENE (P-CHLOROTOLUENE)	1.0122		1.1280			11.4
CCVD	Q1286682		TERT-BUTYLBENZENE	4.7924		5.5596			16
CCVD	Q1286682		1,2,4-TRIMETHYLBENZENE	4.2456		4.7320			11.5
CCVD	Q1286682		SEC-BUTYLBENZENE	7.3098		8.5770			17.3
CCVD	Q1286682		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUE	5.4438		6.3929			17.4
CCVD	Q1286682		1,3-DICHLOROBENZENE (M-DICHLOROBENZE	1.8547		2.1231			14.5
CCVD	Q1286682		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	1.7762		2.0254			14
CCVD	Q1286682		N-BUTYLBENZENE	3.5339		4.2982			21.6
CCVD	Q1286682		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.3662		1.5311			12.1
CCVD	Q1286682		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.0755		0.0825			9.3
CCVD	Q1286682		1,2,4-TRICHLOROBENZENE	0.9963		1.2594			26.4
CCVD	Q1286682		HEXACHLOROBUTADIENE	1.4545		1.8635			28.1
CCVD	Q1286682		NAPHTHALENE	0.6688		0.8166			22.1
CCVD	Q1286682		1,2,3-TRICHLOROBENZENE	0.7047		0.9011			27.9
CCVD	Q1286682		1,2,3-TRICHLOROPROPANE	0.3909		0.4309			10.2
CCVD	Q1286682		ACETONE (2-PROPANONE)	0.0400		0.0267			33.2
CCVD	Q1286682		METHYL ETHYL KETONE	0.0510		0.0501			1.8
CCVD	Q1286682		METHYL-T-BUTYL ETHER (MTBE)	0.4550		0.4300			5.5
CCVD	Q1286682		DICHLOROETHANE-D4	0.4385		0.3792			13.5
CCVD	Q1286682		TOLUENE-D8	3.6493		3.6981			1.3
CCVD	Q1286682		4-BROMOFLUOROBENZENE	1.9859		2.0067			1
			Date and time of analysis	28-SEP-01	07:26:00				
BLA01	Q1286609		DICHLORODIFLUOROMETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		CHLOROMETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		VINYL CHLORIDE			BDL 0.50	ug/L		
BLA01	Q1286609		BROMOMETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		CHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		TRICHLOROFLUOROMETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		1,1-DICHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1286609		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 0.50	ug/L		
BLA01	Q1286609		TRANS-1,2-DICHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,1-DICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		2,2-DICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1286609		CIS-1,2-DICHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1286609		CHLOROFORM			BDL 0.50	ug/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1286609		BROMOCHLOROMETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		1,1,1-TRICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		1,1-DICHLOROPROPENE			BDL 0.50	ug/L		
BLA01	Q1286609		CARBON TETRACHLORIDE			BDL 0.50	ug/L		
BLA01	Q1286609		1,2-DICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		BENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		TRICHLOROETHENE			BDL 0.20	ug/L		
BLA01	Q1286609		1,2-DICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1286609		DIBROMOMETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		CIS-1,3-DICHLOROPROPENE			BDL 0.50	ug/L		
BLA01	Q1286609		TOLUENE			BDL 0.50	ug/L		
BLA01	Q1286609		TRANS-1,3-DICHLOROPROPENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,1,2-TRICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		1,3-DICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1286609		TETRACHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1286609		CHLOROBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		ETHYL BENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,1,1,2-TETRACHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		M/P-XYLENE			BDL 0.50	ug/L		
BLA01	Q1286609		O-XYLENE			BDL 0.50	ug/L		
BLA01	Q1286609		STYRENE			BDL 0.50	ug/L		
BLA01	Q1286609		ISOPROPYLBENZENE (CUMENE)			BDL 0.50	ug/L		
BLA01	Q1286609		BROMOFORM			BDL 0.50	ug/L		
BLA01	Q1286609		1,1,2,2-TETRACHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1286609		N-PROPYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		BROMOBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,3,5-TRIMETHYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		2-CHLOROTOLUENE (O-CHLOROTOLUENE)			BDL 0.50	ug/L		
BLA01	Q1286609		4-CHLOROTOLUENE (P-CHLOROTOLUENE)			BDL 0.50	ug/L		
BLA01	Q1286609		TERT-BUTYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,2,4-TRIMETHYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		SEC-BUTYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUE			BDL 0.50	ug/L		
BLA01	Q1286609		1,3-DICHLOROBENZENE (M-DICHLOROBENZE			BDL 0.50	ug/L		
BLA01	Q1286609		1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 0.20	ug/L		
BLA01	Q1286609		N-BUTYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 0.50	ug/L		
BLA01	Q1286609		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)			BDL 0.50	ug/L		
BLA01	Q1286609		1,2,4-TRICHLOROBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		HEXACHLOROBUTADIENE			BDL 0.50	ug/L		
BLA01	Q1286609		NAPHTHALENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,2,3-TRICHLOROBENZENE			BDL 0.50	ug/L		
BLA01	Q1286609		1,2,3-TRICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1286609		ACETONE (2-PROPANONE)			5.8	ug/L		
BLA01	Q1286609		METHYL ETHYL KETONE			BDL 2.0	ug/L		
BLA01	Q1286609		METHYL-T-BUTYL ETHER (MTBE)			BDL 0.50	ug/L		
BLA01	Q1286609		DICHLOROETHANE-D4					82	
BLA01	Q1286609		TOLUENE-D8					101	
BLA01	Q1286609		4-BROMOFLUOROBENZENE					102	
			Date and time of analysis	28-SEP-01	08:09:00				
LCS01	Q1286610	SUPELCO	BENZENE	5		4.97	ug/L	99.4	
LCS01	Q1286610	SUPELCO	CARBON TETRACHLORIDE	5		4.67	ug/L	93.4	
LCS01	Q1286610	SUPELCO	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	5		5.59	ug/L	111.8	
LCS01	Q1286610	SUPELCO	1,2-DICHLOROETHANE	5		4.41	ug/L	88.2	

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS01	Q1286610	SUPELCO	1,1-DICHLOROETHENE	5		4.55	ug/L	91	
LCS01	Q1286610	SUPELCO	1,1,1-TRICHLOROETHANE	5		4.87	ug/L	97.4	
LCS01	Q1286610	SUPELCO	TRICHLOROETHENE	5		4.7	ug/L	94	
LCS01	Q1286610	SUPELCO	VINYL CHLORIDE	5		4.71	ug/L	94.2	
LCS01	Q1286610	SUPELCO	BROMOBENZENE	5		5.14	ug/L	102.8	
LCS01	Q1286610	SUPELCO	BROMODICHLOROMETHANE	5		4.86	ug/L	97.2	
LCS01	Q1286610	SUPELCO	BROMOFORM	5		5.23	ug/L	104.6	
LCS01	Q1286610	SUPELCO	BROMOMETHANE	5		5.44	ug/L	108.8	
LCS01	Q1286610	SUPELCO	CHLOROBENZENE	5		5.19	ug/L	103.8	
LCS01	Q1286610	SUPELCO	CHLOROETHANE	5		5.65	ug/L	113	
LCS01	Q1286610	SUPELCO	CHLOROFORM	5		5.21	ug/L	104.2	
LCS01	Q1286610	SUPELCO	CHLOROMETHANE	5		4.44	ug/L	88.8	
LCS01	Q1286610	SUPELCO	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	5		5.2	ug/L	104	
LCS01	Q1286610	SUPELCO	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	5		5.03	ug/L	100.6	
LCS01	Q1286610	SUPELCO	DIBROMOMETHANE	5		5.31	ug/L	106.2	
LCS01	Q1286610	SUPELCO	1,3-DICHLOROBENZENE (M-DICHLOROBENZE	5		5.61	ug/L	112.2	
LCS01	Q1286610	SUPELCO	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	5		5.66	ug/L	113.2	
LCS01	Q1286610	SUPELCO	TRANS-1,2-DICHLOROETHENE	5		4.66	ug/L	93.2	
LCS01	Q1286610	SUPELCO	CIS-1,2-DICHLOROETHENE	5		4.91	ug/L	98.2	
LCS01	Q1286610	SUPELCO	DICHLOROMETHANE (METHYLENE CHLORIDE)	5		5.77	ug/L	115.4	
LCS01	Q1286610	SUPELCO	1,1-DICHLOROETHANE	5		4.71	ug/L	94.2	
LCS01	Q1286610	SUPELCO	1,1-DICHLOROPROPENE	5		4.54	ug/L	90.8	
LCS01	Q1286610	SUPELCO	1,2-DICHLOROPROPANE	5		4.95	ug/L	99	
LCS01	Q1286610	SUPELCO	1,3-DICHLOROPROPANE	5		5.27	ug/L	105.4	
LCS01	Q1286610	SUPELCO	CIS-1,3-DICHLOROPROPENE	5		5.05	ug/L	101	
LCS01	Q1286610	SUPELCO	TRANS-1,3-DICHLOROPROPENE	5		5.05	ug/L	101	
LCS01	Q1286610	SUPELCO	2,2-DICHLOROPROPANE	5		4.3	ug/L	86	
LCS01	Q1286610	SUPELCO	ETHYL BENZENE	5		5.12	ug/L	102.4	
LCS01	Q1286610	SUPELCO	STYRENE	5		5.32	ug/L	106.4	
LCS01	Q1286610	SUPELCO	1,1,2-TRICHLOROETHANE	5		5.29	ug/L	105.8	
LCS01	Q1286610	SUPELCO	1,1,1,2-TETRACHLOROETHANE	5		5.2	ug/L	104	
LCS01	Q1286610	SUPELCO	1,1,2,2-TETRACHLOROETHANE	5		5.9	ug/L	118	
LCS01	Q1286610	SUPELCO	TETRACHLOROETHENE	5		5.02	ug/L	100.4	
LCS01	Q1286610	SUPELCO	1,2,3-TRICHLOROPROPANE	5		5.84	ug/L	116.8	
LCS01	Q1286610	SUPELCO	TOLUENE	5		5.13	ug/L	102.6	
LCS01	Q1286610	SUPELCO	O-XYLENE	5		5.25	ug/L	105	
LCS01	Q1286610	SUPELCO	M/P-XYLENE	10		9.89	ug/L	98.9	
LCS01	Q1286610	SUPELCO	BROMOCHLOROMETHANE	5		5.29	ug/L	105.8	
LCS01	Q1286610	SUPELCO	N-BUTYLBENZENE	5		5.06	ug/L	101.2	
LCS01	Q1286610	SUPELCO	DICHLORODIFLUOROMETHANE	5		4.24	ug/L	84.8	
LCS01	Q1286610	SUPELCO	TRICHLOROFLUOROMETHANE	5		4.36	ug/L	87.2	
LCS01	Q1286610	SUPELCO	HEXACHLOROBUTADIENE	5		5.91	ug/L	118.2	
LCS01	Q1286610	SUPELCO	ISOPROPYLBENZENE (CUMENE)	5		4.99	ug/L	99.8	
LCS01	Q1286610	SUPELCO	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUE	5		5.11	ug/L	102.2	
LCS01	Q1286610	SUPELCO	NAPHTHALENE	5		6.27	ug/L	125.4	
LCS01	Q1286610	SUPELCO	N-PROPYLBENZENE	5		4.88	ug/L	97.6	
LCS01	Q1286610	SUPELCO	SEC-BUTYLBENZENE	5		5.1	ug/L	102	
LCS01	Q1286610	SUPELCO	TERT-BUTYLBENZENE	5		5.18	ug/L	103.6	
LCS01	Q1286610	SUPELCO	1,2,3-TRICHLOROBENZENE	5		6.61	ug/L	132.2	
LCS01	Q1286610	SUPELCO	1,2,4-TRICHLOROBENZENE	5		6.28	ug/L	125.6	
LCS01	Q1286610	SUPELCO	1,2,4-TRIMETHYLBENZENE	5		5.21	ug/L	104.2	
LCS01	Q1286610	SUPELCO	1,3,5-TRIMETHYLBENZENE	5		5.1	ug/L	102	
			Date and time of analysis	28-SEP-01	13:44:00				
SAMPLE	A567128		See Cert. of Analysis, Rep: 0						

QC Sample Comments

! Outside Lab Generated Control Limits
< Less Than Lower Detection Limit
BDL Below Detection Limit
J Estimated

Approved by: GA Busch, DAO