PROJECT ID:01530009

SAMPLE ID: DK27345

DESCRIPTOR: COMPLAINT RESPONSE

HERITAGE ENVIRONMENTAL SERVICES
COMMERCIAL LABORATORY OPERATIONS

7901 W. Morris Street
Indianapolis, IN 46231-3301

One

MITT L. DENNEY
INDIANA DEPT. OF ENV. MGT.

REPORT PACKAGE #8627

SAMPLE: ***A555261***
IDEM ID: ***DK27345***

Bennett rd. Monroe Co.

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 # 8627
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: A555261

IDEM ID: DK27345

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
JUN 26 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 01-June-2001:

Sample #: A555261

IDEM #: DK27345

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

Z138572

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 L. 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.		
A555261	DR22345		1	2				4					5/30/01 4:00 AM/PM
↓ 262	QA/QC												/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
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													/ / : 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	6/1/01	Y	N	3.3°C
RECEIVED BY: S. KINNAMAN	12:55 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 locked in a secure area.

Signature: S. KINNAMAN Date: 1 JUNE 01 Time: 13:00 AM/PM

Lab: HERITAGE Address: INDY

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

Site ID: 01530009 **IDEM Sample #'s: DK** 27345 **to DK** _____ **Project Date:** 5/31/01

Sampler: HARRIS **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	X	Turbidity	
Coliforms, E.coli		pH (Lab)			
Coliforms, Fecal		Phosphorous, ortho			

TASK 5 - VOLATILE ORGANICS	5A - 524.2	X	5B - 524E	
TASK 6 - SEMIVOLATILE ORGANICS	6A - 525.2	X	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	X	548.1 -Endothall	
507 - Nitrogen/Phosphorous NPD No NPD		531.1 - Carbamates	X	549.1 - Diquat/Paraquat	
508.1 - Chlorinated Acids - ECD					

SAS

APPROXIMATE CONCENTRATIONS (worst case):	10ppm	X	100ppm		≥1000ppm		
REPORTING TIME (days):	30	X	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
Phone: 317/243-0811
Fax: 317/486-5095
Internet:http://www.heritage-enviro.com

CASE NARRATIVE
GC GROUP
HERB ANALYSIS
METHODS SW846-8151, -8151A, and 515.1

SAMPLE #		
	~~A555552~~	~~DK27341~~
	~~A555553~~	~~DK27342~~
	A555261	DK27345

These samples were analyzed according to normal procedures and all data quality acceptance criteria were satisfied. Although not an analyte of interest, DCPA was confirmed in A555553 and A555261 at 2.8 and 3.5 ug/L, respectively.

ug/L

inst blank DCPA 0.292

Melinda Keazer
GC Analyst

Recycled Paper

Herbicide Water Surrogate Recovery Form
Heritage Laboratories

Contract: IDEM Lab File: 2961

Instrument ID: Instr 324 GC Column #1 ID: CH17 DB-1701
GC Column #2 ID: CH18 DB-XLB

Dates of Analysis: 6-Jun-01 to 7-Jun-01

	SAMPLE	DESCRIPTION	% DCAA Recovery Column #1	% DBOB Recovery Column #1	% DCAA Recovery Column#2	% DBOB Recovery Column#2	DCAA Outside of Limits	DBOB Outside of Limits	COMMENT
1	BLA 769 H1167	BLA02	87.0%	84.6%	81.9%	90.1%			
2	LCS 165 H1167	LCS	88.5%	83.6%	80.7%	89.2%			
3	A555552 H1167	DK27341	94.7%	82.5%	90.2%	87.2%			
4	A555552 MS H1167	SPI02	99.1%	85.3%	88.7%	93.9%			
5	A555552 MSD H1167	DPS02	89.4%	82.6%	84.2%	86.5%			
6	A555261 H1167	DK27345	93.8%	85.4%	92.0%	90.1%			
7	A555553 H1167	DK27342	93.3%	86.5%	89.4%	88.9%			
8									
9									
10									
11									
12									
13									
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16									
17									
18									
21									
22									
23									
24									
25									

DCAA =2,4-Dichlorophenylacetic Acid (surrogate)
DBOB = 4,4'-Dibromooctaflurobiphenyl (ISTD)
"*" indicates values outside of QC limits.
"D" indicates that surrogates were diluted out.

Advisory QC Limits (50% to 150%)

Comments:

FORM 2e

Pesticide Matrix Spike/Spike Duplicate Recovery
Heritage Environmental Commercial Laboratory Operations

Contract: IDEM **Lab Code:** 2961

Instrument ID : Instr 324

GC Column ID: CH17 DB-1701

Dates of Analysis: 06-Jun-01 **to** 07-Jun-01

Matrix Spike Sample Number: A555552

ANALYTE	Spike Added (ug/L)	Sample Conc (ug/L)	MS Conc (ug/L)	MS % Rec
DALAPON	2.50	0	1.52	60.8%
PCP	0.10	0	0.06	61.4%
2,4-D	2.50	0	2.24	89.6%
SILVEX	0.50	0	0.53	105.4%
DINOSEB	2.50	0	0.21	8.4%
PICLORAM	1.00	0	0.97	96.8%

ANALYTE	Spike Added (ug/L)	Sample Conc (ug/L)	MSD Conc (ug/L)	MSD % Rec	% RPD
DALAPON	2.50	0	3.06	122.4%	67.25%
PCP	0.10	0	0.07	73.5%	17.94%
2,4-D	2.50	0	2.14	85.6%	4.57%
SILVEX	0.50	0	0.53	105.6%	0.19%
DINOSEB	2.50	0	0.77	30.7%	114.1%
PICLORAM	1.00	0	0.97	97.2%	0.41%

Comments:

FORM 3

Herbicide Method Blank Summary
Heritage Laboratories

Contract: IDEM
Lab Code: 2961

Lab Blank ID:	BLA 769 H1167	Lab File ID:	2961 10.D
Matrix: (soil, oil water):	water	Date Extracted:	06-Jun-01
Extraction (SepF,Sonc,ASE):	SepF		
Date/Time Analyzed (1):	6/7/01 15:36	Date/Time Analyzed (2):	6/7/2001 4:23
Instrument ID (1):	Instr 324	Instrument ID (2):	Instr 324
GC Column ID (1):	CH17 DB-1701	GC Column ID (2):	CH18 DB-XLB

This Method Blank refers to the following: samples, LCS, MS, and MSD

	SAMPLE	DESCRIPTION	Date for Analysis 1	Date for Analysis 2
1	BLA 769 H1167	BLA02	6/7/01 15:36	6/7/2001 4:23
2	LCS 165 H1167	LCS	6/7/01 16:23	6/7/2001 5:10
3	A555552 H1167	DK27341	6/7/01 17:10	6/7/2001 5:57
4	A555552 MS H1167	SPI02	6/7/01 17:57	6/7/2001 6:44
5	A555552 MSD H1167	DPS02	6/7/01 18:44	6/7/2001 7:31
6	A555261 H1167	DK27345	6/7/01 19:31	6/7/2001 8:18
7	A555553 H1167	DK27342	6/7/01 20:18	6/7/2001 9:06
8				
9				
10				
11				
12				
13				
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16				
17				
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19				
20				
21				
22				
23				
24				
25				
26				

Analysis (2) info is only available if a confirmation column was needed.

Comments:

FORM 4

Initial Calibration of Single Peak Analytes
Heritage Laboratories

Contract: IDEM
Lab Code: 2961
Instrument ID: Instr 324
GC Column ID: CH17 DB-1701

Calibration Files:
HIGH= 2961_03.D
MED= 2961_05.D
LOW= 2961_07.D
INT2= 2961_04.D
INT1= 2961_06.D

COMPOUND	CALIBRATION FACTOR						
	HIGH	INT2	MED	INT1	LOW	MEAN	% RSD
Dalapon	5.898E+06	6.184E+06	5.869E+06	6.802E+06	6.716E+06	6.294E+06	7.04%
DCBA	4.696E+06	4.989E+06	4.744E+06	5.602E+06	5.716E+06	5.149E+06	9.32%
4-Nitrophenol	2.208E+06	2.256E+06	2.160E+06	2.472E+06	2.663E+06	2.352E+06	8.96%
DCAA	4.395E+06	4.455E+06	4.175E+06	4.479E+06	4.583E+06	4.417E+06	3.43%
Dicamba	1.354E+07	1.401E+07	1.345E+07	1.554E+07	1.610E+07	1.453E+07	8.34%
MCPP	1.044E+07	1.114E+07	1.063E+07	1.241E+07	1.300E+07	1.152E+07	9.78%
MCPA	1.510E+07	1.616E+07	1.582E+07	1.857E+07	2.062E+07	1.725E+07	13.27%
Dichloroprop	4.622E+06	4.553E+06	4.319E+06	5.216E+06	5.501E+06	4.842E+06	10.22%
2,4-D	5.242E+06	5.109E+06	5.013E+06	6.705E+06	7.322E+06	5.878E+06	18.07%
PCP	6.424E+07	6.549E+07	6.258E+07	7.156E+07	7.202E+07	6.718E+07	6.46%
DBOB	5.005E+07	6.399E+07	5.591E+07	6.137E+07	6.896E+07	6.006E+07	12.18%
2,4,5-TP (Silvex)	2.634E+07	2.737E+07	2.645E+07	3.116E+07	3.186E+07	2.864E+07	9.30%
Chloramben	1.859E+07	1.906E+07	1.876E+07	2.110E+07	2.109E+07	1.972E+07	6.42%
2,4,5-T	2.325E+07	2.395E+07	2.359E+07	2.757E+07	2.850E+07	2.537E+07	9.72%
2,4-DB	2.611E+06	2.960E+06	3.046E+06	3.841E+06	3.255E+06	3.142E+06	14.46%
Picloram	3.026E+07	2.704E+07	2.637E+07	2.908E+07	2.965E+07	2.848E+07	5.94%
Bentazon	2.971E+06	3.123E+06	3.131E+06	3.736E+06	4.263E+06	3.445E+06	15.77%
Dinoseb	1.796E+07	1.847E+07	1.807E+07	2.143E+07	2.201E+07	1.959E+07	10.05%
DCPA	3.017E+07	3.137E+07	3.084E+07	3.616E+07	3.807E+07	3.332E+07	10.67%
Acifluorfen	2.618E+07	2.640E+07	2.582E+07	2.795E+07	2.822E+07	2.692E+07	4.06%

DCAA =2,4-Dichlorophenylacetic Acid (surrogate)
DBOB = 4,4'-Dibromooctaflurobiphenyl (ISTD)

Average % RSD= 9.81%

For Method 8151, the %RSD for individual peaks may be above 20%,but below 30%, as long as the average %RSD is less than or equal to 20%.

For Method 515.1, all individual peaks must have a %RSD less than or equal to 20%.

FORM 6

Initial Calibration of Single Peak Analytes
Heritage Laboratories

Contract: IDEM
Instrument ID: Instr 324

Lab Code: 2961
GC Column ID: CH18 DB-XLB

Calibration Files:

HIGH= 2961_03.D
INT2= 2961_04.D
MED= 2961_05.D
INT1= 2961_06.D
LOW= 2961_07.D

COMPOUND	CALIBRATION FACTOR						
	HIGH @ 1.0 mg/L	INT2 @ 0.75 mg/L	MED @ 0.50 mg/L	INT1 @ 0.10 mg/L	LOW @ 0.05 mg/L	MEAN	% RSD
DALAPON	2.235E+06	2.297E+06	2.112E+06	2.486E+06	2.366E+06	2.299E+06	6.08%
DCBA	1.812E+06	1.918E+06	1.823E+06	2.154E+06	2.114E+06	1.964E+06	8.21%
4-NITROPHENOL	6.177E+05	6.412E+05	6.136E+05	7.369E+05	7.491E+05	6.717E+05	9.84%
DCAA	1.330E+06	1.438E+06	1.390E+06	1.495E+06	1.495E+06	1.430E+06	4.97%
DICAMBA	4.977E+06	5.174E+06	4.975E+06	5.824E+06	5.571E+06	5.304E+06	7.14%
MCPP	3.314E+06	3.608E+06	3.509E+06	4.193E+06	4.284E+06	3.782E+06	11.41%
MCPA	4.821E+06	5.311E+06	5.266E+06	6.490E+06	7.259E+06	5.830E+06	17.33%
DICHLORPROP	1.295E+06	1.311E+06	1.282E+06	1.535E+06	1.556E+06	1.396E+06	9.83%
DBOB	1.523E+06	1.489E+06	1.457E+06	1.712E+06	1.708E+06	1.578E+06	7.80%
PCP	1.719E+07	1.853E+07	1.861E+07	2.177E+07	2.036E+07	1.929E+07	9.25%
2,4-D	1.118E+07	1.523E+07	1.336E+07	1.527E+07	1.674E+07	1.436E+07	14.93%
SILVEX	6.476E+06	6.960E+06	6.835E+06	7.690E+06	7.095E+06	7.011E+06	6.33%
2,4,5-T	3.956E+06	4.065E+06	3.906E+06	4.114E+06	3.539E+06	3.916E+06	5.79%
CHLORAMBEN	5.406E+06	5.659E+06	5.532E+06	6.084E+06	5.492E+06	5.635E+06	4.75%
2,4-DB	5.115E+05	5.510E+05	5.266E+05	6.371E+05	6.066E+05	5.666E+05	9.44%
DINOSEB	4.637E+06	4.168E+06	4.033E+06	4.107E+06	3.398E+06	4.069E+06	10.89%
BENTAZON	6.045E+05	6.514E+05	6.270E+05	7.184E+05	7.063E+05	6.615E+05	7.48%
DCPA	3.662E+06	3.883E+06	3.783E+06	4.180E+06	3.920E+06	3.886E+06	4.95%
PICLORAM	6.184E+06	6.741E+06	6.803E+06	7.545E+06	7.029E+06	6.860E+06	7.18%
ACIFLUORFEN	3.246E+06	3.484E+06	3.452E+06	3.528E+06	2.947E+06	3.332E+06	7.22%

DCAA =2,4-Dichlorophenylacetic Acid (surrogate)
DBOB = 4,4'-Dibromooctaflurobiphenyl (ISTD)

Average % RSD= 8.67%

For Method 8151, the %RSD for individual peaks may be above 20%,but below 30%, as long as the average %RSD is less than or equal to 20%.

For Method 515.1, all individual peaks must have a %RSD less than or equal to 20%.

FORM 6

Response Factor Report Instr 324

Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001

Calibration Files
= HIGH =2961_03.D INT2 =2961_04.D
MED =2961_05.D INT1 =2961_06.D LOW =2961_07.D

		Compound	HIGH	INT2	MED	INT1	LOW	Avg	%RSD
1)	T	Dalapon	5.898	6.184	5.869	6.802	6.716	6.294 E6	7.04
2)	T	DCBA	4.696	4.989	4.744	5.602	5.716	5.149 E6	9.32
3)	T	4-Nitrophenol	2.208	2.256	2.160	2.472	2.663	2.352 E6	8.96
4)	S	DCAA	4.395	4.455	4.175	4.479	4.583	4.417 E6	3.43
5)	T	Dicamba	1.354	1.401	1.345	1.554	1.610	1.453 E7	8.34
6)	T	MCPP	1.044	1.114	1.063	1.241	1.300	1.152 E7	9.78
7)	T	MCPA	1.510	1.616	1.582	1.857	2.062	1.725 E7	13.27
8)	T	Dichloroprop	4.622	4.553	4.319	5.216	5.501	4.842 E6	10.22
9)	T	2,4-D	5.242	5.109	5.013	6.705	7.322	5.878 E6	18.07
10)	T	PCP	6.424	6.549	6.258	7.156	7.202	6.718 E7	6.46
11)	S	DBOB	5.005	6.399	5.591	6.137	6.896	6.006 E7	12.18
12)	T	2,4,5-TP (Silvex)	2.634	2.737	2.645	3.116	3.186	2.864 E7	9.30
13)	T	Chloramben	1.859	1.906	1.876	2.110	2.109	1.972 E7	6.42
14)	T	2,4,5-T	2.325	2.395	2.359	2.757	2.850	2.537 E7	9.72
15)	T	2,4-DB	2.611	2.960	3.046	3.841	3.255	3.142 E6	14.46
16)	T	Picloram	3.026	2.704	2.637	2.908	2.965	2.848 E7	5.94
17)	T	Bentazon	2.971	3.123	3.131	3.736	4.263	3.445 E6	15.77
18)	T	Dinoseb	1.796	1.847	1.807	2.143	2.201	1.959 E7	10.05
19)	T	DCPA	3.017	3.137	3.084	3.616	3.807	3.332 E7	10.67
20)	T	Acifluorfen	2.618	2.640	2.582	2.795	2.822	2.692 E7	4.06

Signal #2 Calibration Files
= HIGH =2961_03.D INT2 =2961_04.D
MED =2961_05.D INT1 =2961_06.D LOW =2961_07.D

		Compound	HIGH	INT2	MED	INT1	LOW	Avg	%RSD
1)	T	Dalapon	2.235	2.297	2.112	2.486	2.366	2.299 E6	6.08
2)	T	DCBA	1.812	1.918	1.823	2.154	2.114	1.964 E6	8.21
3)	T	4-Nitrophenol	6.177	6.412	6.136	7.369	7.491	6.717 E5	9.84
4)	S	DCAA	1.330	1.438	1.390	1.495	1.495	1.430 E6	4.97
5)	T	Dicamba	4.977	5.174	4.975	5.824	5.571	5.304 E6	7.14
6)	T	MCPP	3.314	3.608	3.509	4.193	4.284	3.782 E6	11.41
7)	T	MCPA	4.821	5.311	5.266	6.490	7.259	5.830 E6	17.33
8)	T	Dichloroprop	1.295	1.311	1.282	1.535	1.556	1.396 E6	9.83
9)	T	2,4-D	1.523	1.489	1.457	1.712	1.708	1.578 E6	7.80
10)	T	PCP	1.719	1.853	1.861	2.177	2.036	1.929 E7	9.25
11)	S	DBOB	1.118	1.523	1.336	1.527	1.674	1.436 E7	14.93
12)	T	2,4,5-TP (Silvex)	6.476	6.960	6.835	7.690	7.095	7.011 E6	6.33
13)	T	Chloramben	3.956	4.065	3.906	4.114	3.539	3.916 E6	5.79
14)	T	2,4,5-T	5.406	5.659	5.532	6.084	5.492	5.635 E6	4.75
15)	T	2,4-DB	5.115	5.510	5.266	6.371	6.066	5.666 E5	9.44
16)	T	Picloram	4.637	4.168	4.033	4.107	3.398	4.069 E6	10.89
17)	T	Bentazon	6.045	6.514	6.270	7.184	7.063	6.615 E5	7.48
18)	T	Dinoseb	3.662	3.883	3.783	4.180	3.920	3.886 E6	4.95
19)	T	DCPA	6.184	6.741	6.803	7.545	7.029	6.860 E6	7.18
20)	T	Acifluorfen	3.246	3.484	3.452	3.528	2.947	3.332 E6	7.22

(#) = Out of Range

8151HERB.M Thu Jun 07 23:33:35 2001 RPT1

Herbicide Evaluation of Standards Summary
Evaluation of Retention Time Shift for Surrogates
Heritage Laboratories

Contract: IDEM **Lab File:** 2961

Instrument ID: Instr 324 **GC Column ID:** CH17 DB-1701

Dates of Analysis: 6-Jun-01 **to** 7-Jun-01

	SAMPLE	DESCRIPTION	DATE/TIME ANALYZED	DCAA Retention Time	DBOB Retention Time
1	JUNK HIGH	INSTR PRIME	6/6/01 20:32	0.00	7.15
2	HEXANE	INSTR BLANK	6/6/01 21:19		
3	8151 HIGH T852	CAL	6/6/01 22:06	4.76	7.12
4	8151 INT2 T705	CAL	6/6/01 22:53	4.76	7.12
5	8151 MED T836	CAL	6/6/01 23:40	4.76	7.13
6	8151 INT1 T707	CAL	6/7/01 0:27	4.76	7.13
7	8151 LOW T708	CAL	6/7/2001 1:14	4.76	7.13
8	HERB PCS T502	RESOLUTION CHK	6/7/2001 2:01	4.77	7.13
9	RCS H1167	ICV01	6/7/2001 2:49	4.77	7.13
10	BLA 769 H1167	BLA02	6/7/2001 3:36	4.76	7.13
11	LCS 165 H1167	LCS	6/7/2001 4:23	4.77	7.13
12	A555552 H1167	DK27341	6/7/2001 5:10	4.77	7.13
25	A555552 MS H1167	SPI02	6/7/2001 5:57	4.77	7.13
14	A555552 MSD H1167	DPS02	6/7/2001 6:44	4.77	7.13
15	A555261 H1167	DK27345	6/7/2001 7:31	4.77	7.13
16	A555553 H1167	DK27342	6/7/2001 8:18	4.77	7.12
17	HEXANE	INSTR BLANK	6/7/2001 9:06		
18	MED T836	CCV	6/7/2001 9:52	4.76	7.13
19	MED T836	CCV	6/7/2001 10:40	4.76	7.13
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FORM 8E

Herbicide Evaluation of Standards Summary
Evaluation of Retention Time Shift for Surrogates
Heritage Laboratories

Contract: IDEM Lab File: 2961

Instrument ID: Instr 324 GC Column ID: CH18 DB-XLB

Dates of Analysis: 6-Jun-01 to 7-Jun-01

	SAMPLE	DESCRIPTION	DATE/TIME ANALYZED	DCAA Retention Time	DBOB Retention Time
1	JUNK HIGH	INSTR PRIME	6/6/01 21:19	0.00	13.81
2	HEXANE	INSTR BLANK	6/6/01 22:06		
3	8151 HIGH T852	CAL	6/6/01 22:53	7.60	13.82
4	8151 INT2 T705	CAL	6/6/01 23:40	7.60	13.81
5	8151 MED T836	CAL	6/7/01 0:27	7.60	13.82
6	8151 INT1 T707	CAL	6/7/2001 1:14	7.60	13.81
7	8151 LOW T708	CAL	6/7/2001 2:01	7.60	13.81
8	HERB PCS T502	RESOLUTION CHK	6/7/2001 2:49	7.60	13.81
9	RCS H1167	ICV01	6/7/2001 3:36	7.60	13.81
10	BLA 769 H1167	BLA02	6/7/2001 4:23	7.60	13.82
11	LCS 165 H1167	LCS	6/7/2001 5:10	7.60	13.81
12	A555552 H1167	DK27341	6/7/2001 5:57	7.60	13.82
25	A555552 MS H1167	SPI02	6/7/2001 6:44	7.60	13.82
14	A555552 MSD H1167	DPS02	6/7/2001 7:31	7.60	13.82
15	A555261 H1167	DK27345	6/7/2001 8:18	7.60	13.82
16	A555553 H1167	DK27342	6/7/2001 9:06	7.60	13.81
17	HEXANE	INSTR BLANK	6/7/2001 9:52		
18	MED T836	CCV	6/7/2001 10:40	7.60	13.81
19	MED T836	CCV		7.60	13.82
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FORM 8E

PCB Continuing Calibration Report
Heritage Laboratories

Contract:	IDEM	Lab Code:	2961
Instrument ID:	Instr 324	GC Column ID:	CH17 DB-1701
Data File ID:	2961_18.D	Data File Name:	MED T836

Dates of Analysis: 06-Jun-01 TO 07-Jun-01

COMPOUND	Retention Time of Cont. Cal	Retention Time Window FROM	Retention Time Window TO	Initial Calib. Avg. Response Factor	Cont. Cal Response Factor	%D
DALAPON	0.93	0.88	0.98	6.294E+06	5.838E+06	7.24%
DCBA	3.63	3.58	3.68	5.149E+06	4.841E+06	6.00%
4-NITROPHENOL	4.35	4.30	4.40	2.352E+06	2.166E+06	7.90%
DCAA	4.76	4.71	4.81	4.417E+06	4.335E+06	1.86%
DICAMBA	4.99	4.94	5.04	1.453E+07	1.336E+07	8.03%
MCPP	5.35	5.30	5.40	1.152E+07	1.076E+07	6.61%
MCPA	5.86	5.81	5.91	1.725E+07	1.594E+07	7.63%
DICHLORPROP	6.51	6.46	6.56	4.842E+06	4.568E+06	5.66%
2,4-D	7.52	7.47	7.57	5.878E+06	5.223E+06	11.14%
PCP	7.35	7.30	7.40	6.718E+07	6.367E+07	5.22%
DBOB	7.13	7.08	7.18	6.006E+07	5.596E+07	6.82%
SILVEX	10.06	9.99	10.13	2.864E+07	2.752E+07	3.89%
2,4,5-T	14.48	14.41	14.55	1.972E+07	1.880E+07	4.68%
CHLORAMBEN	12.45	12.38	12.52	2.537E+07	2.432E+07	4.15%
2,4-DB	14.81	14.74	14.88	3.142E+06	3.189E+06	1.49%
DINOSEB	20.84	20.77	20.91	2.848E+07	2.597E+07	8.82%
BENTAZON	17.54	17.48	17.62	3.445E+06	3.150E+06	8.55%
DCPA	17.03	16.96	17.10	1.959E+07	1.837E+07	6.21%
PICLORAM	18.80	18.73	18.87	3.332E+07	3.148E+07	5.53%
ACIFLUORFEN	26.19	26.12	26.26	2.692E+07	2.295E+07	14.72%

DCAA =2,4-Dichlorophenylacetic Acid (surrogate)
DBOB = 4,4'-Dibromooctaflurobiphenyl (ISTD)

Average % Deviation= 6.61%

For Method 8082, the %D for individual peaks may be above 15%,but below 30%, as long as the average %D is less than or equal to 15%.

For Methods 508 and 608, all individual peaks must have a %D less than or equal to 15%.

FORM 9 (1)

PCB Continuing Calibration Report
Heritage Laboratories

Contract: IDEM
Lab Code: 2961
Instrument ID: Instr 324
GC Column ID: CH18 DB-XLB
Data File ID: 2961_18.D
Data File Name: MED T836

Dates of Analysis: 06-Jun-01 TO 07-Jun-01

COMPOUND	Retention Time of Cont. Cal	Retention Time Window FROM	Retention Time Window TO	Initial Calib. Avg. Response Factor	Cont. Cal Response Factor	%D
DALAPON	1.66	1.61	1.71	2.299E+06	2.136E+06	7.11%
DCBA	5.56	5.51	5.61	1.964E+06	1.801E+06	8.29%
4-NITROPHENOL	5.95	5.90	6.00	6.717E+05	5.992E+05	10.79%
DCAA	7.60	7.55	7.65	1.430E+06	1.370E+06	4.17%
DICAMBA	7.77	7.72	7.82	5.304E+06	4.917E+06	7.30%
MCPP	8.64	8.59	8.69	3.782E+06	3.464E+06	8.40%
MCPA	9.50	9.46	9.56	5.830E+06	5.193E+06	10.92%
DICHLORPROP	10.92	10.87	10.97	1.396E+06	1.258E+06	9.89%
2,4-D	12.37	12.32	12.42	1.578E+06	1.411E+06	10.59%
PCP	15.59	15.54	15.64	1.929E+07	1.834E+07	4.94%
DBOB	13.81	13.76	13.86	1.436E+07	1.317E+07	8.28%
SILVEX	17.04	16.99	17.09	7.011E+06	6.635E+06	5.37%
2,4,5-T	17.57	17.52	17.62	3.916E+06	3.554E+06	9.23%
CHLORAMBEN	18.42	18.35	18.49	5.635E+06	5.238E+06	7.04%
2,4-DB	20.34	20.26	20.40	5.666E+05	5.311E+05	6.27%
DINOSEB	22.43	22.36	22.50	4.069E+06	3.598E+06	11.58%
BENTAZON	20.92	20.85	20.99	6.615E+05	6.052E+05	8.52%
DCPA	20.71	20.64	20.78	3.886E+06	3.575E+06	7.99%
PICLORAM	23.09	23.02	23.16	6.860E+06	6.537E+06	4.71%
ACIFLUORFEN	28.84	28.77	28.91	3.332E+06	3.009E+06	9.68%

DCB = Decachlorobiphenyl
TCMX=2,4,5,6-Tetrachloro-m-xylene

Average % Deviation= 8.10%

For Method 8082, the %D for individual peaks may be above 15%,but below 30%, as long as the average %D is less than or equal to 15%.

For Methods 508 and 608, all individual peaks must have a %D less than or equal to 15%.

FORM 9 (1)

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD1A.CH Vial: 18
Acq On : 6-7-01 9:52:59 PM Operator: HP Demo
Sample : MED T836 Inst : Instr 324
Misc : CCV Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD2B.CH Vial: 18
Acq On : 6-7-01 10:40:11 PM Operator: HP Demo
Sample : MED T836 Inst : Instr 324
Misc : CCV Multiplr: 1.00
IntFile : events2.e

Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	Dalapon	6.294	5.838 E6	7.2	99	0.00
2	T	DCBA	5.149	4.841 E6	6.0	102	0.00
3	T	4-Nitrophenol	2.352	2.166 E6	7.9	100	0.00
4	S	DCAA	4.417	4.335 E6	1.9	104	0.00
5	T	Dicamba	14.529	13.362 E6	8.0	99	0.00
6	T	MCPP	11.525	10.763 E6	6.6	101	0.00
7	T	MCPA	17.254	15.938 E6	7.6	101	0.00
8	T	Dichloroprop	4.842	4.568 E6	5.7	106	0.00
9	T	2,4-D	5.878	5.223 E6	11.1	104	0.00
10	T	PCP	67.177	63.674 E6	5.2	102	0.00
11	S	DBOB	60.056	55.960 E6	6.8	100	0.00
12	T	2,4,5-TP (Silvex)	28.636	27.524 E6	3.9	104	0.00
13	T	Chloramben	19.721	18.797 E6	4.7	100	0.00
14	T	2,4,5-T	25.372	24.320 E6	4.1	103	0.00
15	T	2,4-DB	3.142	3.189 E6	-1.5	105	0.00
[illegible]	T	Picloram	28.481	25.968 E6	8.8	98	0.00
[illegible]	T	Bentazon	3.445	3.150 E6	8.6	101	0.00
18	T	Dinoseb	19.588	18.371 E6	6.2	102	0.00
19	T	DCPA	33.321	31.478 E6	5.5	102	0.00
20	T	Acifluorfen	26.916	22.953 E6	14.7	89	0.00

Signal #2

1	T	Dalapon	2.299	2.136 E6	7.1	101	0.00
2	T	DCBA	1.964	1.801 E6	8.3	99	0.00
3	T	4-Nitrophenol	671.723	599.230 E3	10.8	98	0.00
4	S	DCAA	1.430	1.370 E6	4.2	99	0.00
5	T	Dicamba	5.304	4.917 E6	7.3	99	0.00
6	T	MCPP	3.782	3.464 E6	8.4	99	0.00
7	T	MCPA	5.830	5.193 E6	10.9	99	0.00
8	T	Dichloroprop	1.396	1.258 E6	9.9	98	0.00
9	T	2,4-D	1.578	1.411 E6	10.6	97	0.00
10	T	PCP	19.293	18.340 E6	4.9	99	0.00
11	S	DBOB	14.358	13.170 E6	8.3	99	0.00
12	T	2,4,5-TP (Silvex)	7.011	6.635 E6	5.4	97	0.00
13	T	Chloramben	3.916	3.554 E6	9.2	91	0.00
14	T	2,4,5-T	5.635	5.238 E6	7.0	95	0.00
15	T	2,4-DB	566.568	531.053 E3	6.3	101	0.00
16	T	Picloram	4.069	3.598 E6	11.6	89	0.00
17	T	Bentazon	661.519	605.190 E3	8.5	97	0.00
18	T	Dinoseb	3.886	3.575 E6	8.0	94	0.00
19	T	DCPA	6.860	6.537 E6	4.7	96	0.00
20	T	Acifluorfen	3.332	3.009 E6	9.7	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2961_05.D 8151HERB.M Thu Jun 07 23:52:45 2001 RPT1

Heritage Environmental Services

EPA 515.1 REV. 4.0 ~~Continuing Calibration (CCV)~~ RCS (ICV01)

Test Code **O250.1**

Analyst # MUR/1266

Instrument # 324 Channel # 17

File : 2961 Date/Time : 6/7/01 @ 2:49

Units ug/L

PRM	Parameter	True Value	Extract	Result	% Recovery	RPD
45	2,4-DICHLOROPHENOXYACETIC ACID	250.	230.15	230.2	92.1	
868	DINOSEB	250.	203.00	203.0	81.2	
577	PENTACHLOROPHENOL	10.	~~13.43~~	~~13.4~~	~~13.4~~	
829	PICLORAM	100.	13.42	13.4	13.4	
666	SILVEX (2,4,5-TP)	50.	55.90	55.9	111.8	
1017	DALAPON	250.	265.13	265.1	106.	
1804	...					
971	SURROGATE RECOVERY					
972	----------					
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOB)	20.			85.8	
3204	2,4-DICHLOROPHENYLACETIC ACID	100.			72.5	

Ewlmo 6/8/01

Heritage Environmental Services

EPA 515.1 REV. 4.0 Method Blank

Method # 308 Matrix 3 Analyst # MWH/1266

Sample ID: 769 Q# 1244810 File : 2961 Date/Time : 6/8/01@3:36

Instrument # 324 Channel # 17 Dilution Factor _____ DL Multiplier ____

PRM	Parameter	Extract	Result	Limit	Units
45	2,4-DICHLOROPHENOXYACETIC ACID		BDL	7.0	ug/L
868	DINOSEB			0.70	ug/L
577	PENTACHLOROPHENOL			0.10	ug/L
829	PICLORAM			50	ug/L
666	SILVEX (2,4,5-TP)			5.0	ug/L
1017	DALAPON			20	ug/L
1804	...				
971	SURROGATE RECOVERY				
972	----------				
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOB)			96.1	% Rec
3204	2,4-DICHLOROPHENYLACETIC ACID			87.	% Rec

Comments: _____

Reviewed GW/ms Date 6/8/01

Heritage Environmental Services
EPA 515.1 REV. 4.0 MS/MSD/LCS

Method# 308 Matrix 3 Analyst # MNH/1266

Sample ID: 165 Q# 1244811 File : 2961 Date/Time : 6/7/01 @ 4:23

Instrument # 324 Channel # 17 Units ug/L

PRM	Parameter	Sample	True Value	Extract	Result	% Rec	RPD
45	2,4-DICHLOROPHENOXYACETIC ACID	n/a	2.5	215.24	2.15	86.0	
868	DINOSEB		2.5	155.98	1.56	62.4	
577	PENTACHLOROPHENOL		0.10	7.79	0.078	78.0	
829	PICLORAM		1.0	99.65	0.996	99.6	
666	SILVEX (2,4,5-TP)		0.50	51.07	0.511	102.2	
1017	DALAPON		2.50	142.94	1.43	~~86.8~~ 57.2	
1804	...						
971	SURROGATE RECOVERY						
972	----------						
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOE					83.6	
3204	2,4-DICHLOROPHENYLACETIC ACID					88.5	

Comments:

Reviewed EW/1103 Date 6/8/01

Heritage Environmental Services **A555552**

Method : EPA 515.1 REV. 4.0 Meth# 308 **Test Code O250.1.0**

Sample Description : DK27341 Matrix 3 Analyst # MWH/1266

Submitter : INDIANA DEPARTMENT OF ENVIRONMENTAL MGMT. 2961 Date/Time : 6/7/01 @ 8:10

Instrument # 324 Channel # 17 Dilution Factor _____ DL Multiplier ____

PRM	Parameter	Extract	Result	Limit	Units
45	2,4-DICHLOROPHENOXYACETIC ACID		BDL	7.0	ug/L
868	DINOSEB			0.70	ug/L
577	PENTACHLOROPHENOL			0.10	ug/L
829	PICLORAM			50	ug/L
666	SILVEX (2,4,5-TP)			5.0	ug/L
1017	DALAPON			20	ug/L
1804	...				
971	SURROGATE RECOVERY				
972	----------				
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOB)			82.5	% Rec
3204	2,4-DICHLOROPHENYLACETIC ACID			~~8~~ 94.7	% Rec

6/8/01

Comments: _____

Reviewed Ew/103 Date 6/8/01

Heritage Environmental Services

EPA 515.1 REV. 4.0 MS/MSD/LCS

Method# 308 Matrix 3 Analyst # MWH/1246

Sample ID: AS55552 Q# 1244812 File : 2961 Date/Time : 6/7/01 @ 5:51

Instrument # 324 Channel # 17 Units ug/L

PRM	Parameter	Sample	True Value	Extract	Result	% Rec	RPD
45	2,4-DICHLOROPHENOXYACETIC ACID	BDL	2.50	223.79	2.24	89.6	
868	DINOSEB		2.50	20.88	0.21	8.4	
577	PENTACHLOROPHENOL		0.10	6.14	0.0614	61.4	
829	PICLORAM		1.00	96.80	0.968	96.8	
666	SILVEX (2,4,5-TP)		0.50	52.7	0.527	105.4	
1017	DALAPON		2.50	151.66	1.52	60.8	
1804	...						
971	SURROGATE RECOVERY						
972	----------						
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOE					85.2	
3204	2,4-DICHLOROPHENYLACETIC ACID					99.1	

Comments:

Reviewed Gw/1u3 Date 6/8/01

Heritage Environmental Services
EPA 515.1 REV. 4.0 MS/MSD/LCS

Method# 308 Matrix 3 Analyst # MWB/1266

Sample ID: A555552 Q# 1244813 File : 29661 Date/Time : 6/7/01 @ 6:44

Instrument # 324 Channel # 17 Units ug/L

PRM	Parameter	Sample	True Value	Extract	Result	% Rec	RPD
45	2,4-DICHLOROPHENOXYACETIC ACID	BDL	2.50	213.90	2.14	85.6	4.6
868	DINOSEB		2.50	76.81	0.768	30.7	114.1
577	PENTACHLOROPHENOL		0.16	1.35	0.0135	73.5	17.9
829	PICLORAM		1.00	97.21	0.972	97.2	0.4
666	SILVEX (2,4,5-TP)		0.50	52.76	0.528	105.6	0.2
1017	DALAPON		2.50	305.81	3.06	122.4	67.2
1804	...						
971	SURROGATE RECOVERY						
972	----------						
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOE					82.6	
3204	2,4-DICHLOROPHENYLACETIC ACID					89.4	

Comments:

Reviewed CW/MB Date 6/8/01

Heritage Environmental Services **A555261**

Method : EPA 515.1 REV. 4.0 Meth# 308 **Test Code O250.1.0**

Sample Description : DK27345 Matrix 3 Analyst # MNH/1266

Submitter : INDIANA DEPARTMENT OF ENVIRONMENTAL MGMT. File 2961 Date/Time : 6/7/01 @ 7:31

Instrument # 324 Channel # 17 Dilution Factor _____ DL Multiplier ____

PRM	Parameter	Extract	Result	Limit	Units
45	2,4-DICHLOROPHENOXYACETIC ACID		BDL	7.0	ug/L
868	DINOSEB			0.70	ug/L
577	PENTACHLOROPHENOL			0.10	ug/L
829	PICLORAM			50	ug/L
666	SILVEX (2,4,5-TP)			5.0	ug/L
1017	DALAPON			20	ug/L
1804	...				
971	SURROGATE RECOVERY				
972	----------				
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOB)			85.3	% Rec
3204	2,4-DICHLOROPHENYLACETIC ACID			93.8	% Rec

DCPA Confirmed at 3.5 ug/L

Comments: _____

Reviewed GW/1023 Date 6/8/01

Heritage Environmental Services **A555553**

Method : EPA 515.1 REV. 4.0 Meth# 308 **Test Code O250.1.0**

Sample Description : DK27342 Matrix 3 Analyst # MHH/1266

Submitter : INDIANA DEPARTMENT OF ENVIRONMENTAL MGMT. Eq# 2961 Date/Time : 6/7/01 @ 8:18

Instrument # ~~A555261~~ 3244 Channel # 17 Dilution Factor _____ DL Multiplier ____

PRM	Parameter	Extract	Result	Limit	Units
45	2,4-DICHLOROPHENOXYACETIC ACID		BDL	7.0	ug/L
868	DINOSEB			0.70	ug/L
577	PENTACHLOROPHENOL			0.10	ug/L
829	PICLORAM			50	ug/L
666	SILVEX (2,4,5-TP)			5.0	ug/L
1017	DALAPON			20	ug/L
1804	...				
971	SURROGATE RECOVERY				
972	----------				
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOB)			86.4	% Rec
3204	2,4-DICHLOROPHENYLACETIC ACID			93.3	% Rec

DCPA confirmed at 2.8 ug/L

Comments: _____

Reviewed GW/1023 Date 6/8/01

Heritage Environmental Services

EPA 515.1 REV. 4.0 Continuing Calibration (CCV)

Test Code O250.1

Analyst # MWK/1266

Instrument # 324 Channel # 17

File : 2961 Date/Time : 6/7/01 @ 9:52

Units ug/L

PRM	Parameter	True Value	Extract	Result	% Recovery	RPD
45	2,4-DICHLOROPHENOXYACETIC ACID 900.	~~250~~ 1000	444.31	444.3	88.9	
868	DINOSEB	~~250~~	468.94	468.9	93.8	
577	PENTACHLOROPHENOL	~~10~~	473.92	473.9	94.8	
829	PICLORAM	~~100~~	455.88	455.9	~~45~~ 91.2	
666	SILVEX (2,4,5-TP)	~~50~~	480.57	480.6	96.1	
1017	DALAPON	~~250~~	463.78	463.8	92.8	
1804	...					
971	SURROGATE RECOVERY					
972	----------					
3152	4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOB)				93.2	
3204	2,4-DICHLOROPHENYLACETIC ACID				98.1	

BLA 769 LCS 165

Heritage Environmental Services, LLC.
Commercial Laboratory Operations
HERBICIDE WATER EXTRACTIONS

SW846-8151,SW8468151A, EPA 515.1

LIMS

SAMPLE	CLIENT ID	QA/QC TYPE	TEST CODE	DATE	INITIALS / ID	INITIAL WT./VOL.	FINAL VOL.	CLEANUP METHOD	REVIEWER INITIALS/ID	SURR. ISTD	RUN	COMMENTS
BLA 769	012444810	BLA02		6/6/01	JRO/696	1000 mL	10 mL	F S	/	T873/		
LCS 165	811	LCS		↓	↓	1000 mL	↓ mL	F S	/	↓		200µL 7724
ASSSSS2 ~~DLCS 166~~	812	~~DLCSSP02~~ ~~SPI02~~		↓	↓	1000 mL	↓ mL	F S	/	↓		↓
↓	813	DPS02		↓	↓	1000 mL	↓ mL	F S	/	↓		↓
		BLA02				mL	mL	F S	/			
RCS		ICV01				N\A	mL	F S	/			
ASSS261	DK 27345			6/6/01	JRO/696	1000 mL	10 mL	F S	/	T873/		
ASSSSS2	DK 27341			↓	↓	980 mL	↓ mL	F S	/	↓		
↓ 553	↓ 342			↓	↓	980 mL	↓ mL	F S	/	↓		
						mL	mL	F S	/			
						mL	mL	F S	/			
						mL	mL	F S	/			
						mL	mL	F S	/			
						mL	mL	F S	/			
						mL	mL	F S	/			
						mL	mL	F S	/			

Ethyl Ether lot#_____
MTBE lot # _____
Diazald lot # _____

F = SW846-3620b Florisil Cleanup

S = SW846-3660b Sulfur Cleanup

Injection Log

Directory: T:\HPCHEM\2\DATA\2961

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	2961_01.D	1.	JUNK HIGH	INSTR PRIME	6/6/01 2020 20:32:0
	2	2961_02.D	1.	HEXANE	INSTR BLANK	6/6/01 2021 21:19:1
	3	2961_03.D	1.	8151 HIGH T852		6/6/01 2022 22:06:2
4	4	2961_04.D	1.	8151 INT2 T705		6/6/01 2022 22:53:1
5	5	2961_05.D	1.	8151 MED T836		6/6/01 2023 23:40:2
6	6	2961_06.D	1.	8151 INT1 T707		6/7/01 2000 0:27:2
7	7	2961_07.D	1.	8151 LOW T708		6/7/01 2001 1:14:4
8	8	2961_08.D	1.	HERB PCS T502		6/7/01 2002 2:01:4
9	9	2961_09.D	1.	RCS H1167	ICV01	6/7/01 2002 2:49:0
10	10	2961_10.D	1.	BLA 769 H1167	BLA02	6/7/01 2003 3:36:0
11	11	2961_11.D	1.	LCS 165 H1167	LCS	6/7/01 2004 4:23:3
12	12	2961_12.D	1.	A555552 H1167		6/7/01 2005 5:10:3
13	13	2961_13.D	1.	A555552 MS H1167	SPI02	6/7/01 2005 5:57:4
14	14	2961_14.D	1.	A555552 MSD H1167	DPS02	6/7/01 2006 6:44:4
15	15	2961_15.D	1.	A555261 H1167		6/7/01 2007 7:31:5
16	16	2961_16.D	1.	A555553 H1167		6/7/01 2008 8:18:5
17	17	2961_17.D	1.	HEXANE	INSTR BLANK	6/7/01 2009 9:06:0
18	18	2961_18.D	1.	MED T836	CCV	6/7/01 2009 9:52:5
19	19	2961_19.D	1.	MED T836	CCV	6/7/01 2010 10:40:1
20	20	2961_20.D	1.	HEXANE	INSTR BLANK	6/7/01 2011 11:27:0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD1A.CH Vial: 1
Acq On : 6-6-01 20:32:06 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD2B.CH Vial: 1
Acq On : 6-6-01 21:19:14 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:35 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 100.000			Recovery	=	0.00%	0.00%
11) S DBOB	7.15	13.81	997.4E6	271.2E6	16.608	18.885
Spiked Amount 20.000			Recovery	=	83.04%	94.42%
Target Compounds						
1) T Dalapon	0.93	1.66	5660.2E6	2239.1E6	899.355	973.871
2) T DCBA	3.64	5.56	4389.0E6	1873.5E6	852.348	953.925
3) T 4-Nitrophenol	4.36	5.95	2038.0E6	646.7E6	866.669	962.741
T Dicamba	5.01	7.77	12687.9E6	5235.2E6	873.286	986.958
T MCPP	5.37	8.66	945.1E6	346.5E6	82.005	91.629
7) T MCPA	5.88	9.53	1373.9E6	503.8E6	79.628	86.422
8) T Dichloroprop	6.54	10.91	4344.4E6	1394.9E6	897.190	999.382
9) T 2,4-D	7.53	12.36	4929.8E6	1663.8E6	838.681	1054.437 #
10) T PCP	7.37	15.59	59402.1E6	18518.5E6	884.257	959.874
12) T 2,4,5-TP (Silvex	10.09	17.04	24461.5E6	7082.8E6	854.213	1010.183
13) T Chloramben	14.50	17.56	17072.1E6	4299.5E6	865.700	1097.967 #
14) T 2,4,5-T	12.48	18.42	21506.1E6	5951.2E6	847.632	1056.205
15) T 2,4-DB	14.82	20.33	1200.6E6	565.3E6	382.058	997.787 #
16) T Picloram	20.84	22.42	28462.8E6	5093.3E6	999.348	1251.871 #
17) T Bentazon	17.56	20.92	2745.0E6	667.6E6	796.832	1009.137 #
18) T Dinoseb	17.04	20.71	16917.4E6	4092.1E6	863.675	1053.094
19) T DCPA	18.83	23.09	28204.7E6	6856.4E6	846.443	999.420
20) T Acifluorfen	26.20	28.84	23791.7E6	3524.0E6	883.937	1057.779

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.89	4878360	364654
2) Unknown 2	1.10	6981960	278603
3) Unknown 3	1.20	211224000	19067000
4) Unknown 4	3.88	6567510	251127
5) Unknown 5	3.92	29743400	1578090
6) Unknown 6	3.97	38002800	1858890
7) Unknown 7	4.09	14375700	711183
8) Unknown 8	4.14	27935200	1631020
9) Unknown 9	4.21	4247120	208684
10) Unknown 10	4.58	277134000	13747700
11) Unknown 11	4.70	9218910	390010
12) Unknown 12	4.84	9615020	308253
13) Unknown 13	5.19	164302000	4654130
Unknown 14	5.65	5566830	128032
Unknown 15	6.17	31614800	563131
16) Unknown 16	6.40	38027600	975435
17) Unknown 17	6.96	22751000	493462
18) Unknown 18	7.68	803342000	14644000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD1A.CH Vial: 1
Acq On : 6-6-01 20:32:06 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD2B.CH Vial: 1
Acq On : 6-6-01 21:19:14 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:35 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		8.39		5976550	111299	
20) Unknown 20		8.72		1310010000	17208200	
21) Unknown 21		9.28		4499270	100980	
22) Unknown 22		9.35		10802200	154223	
23) Unknown 23		10.65		1022590	64676	
24) Unknown 24		10.82		14984500	211574	
25) Unknown 25		11.05		6805210	91187	
26) Unknown 26		11.63		30387800	280591	
27) Unknown 27		12.06		31058000	380177	
28) Unknown 28		13.63		23360500	292588	
29) Unknown 29		13.95		3709530000	36692000	
30) Unknown 30		14.84		1174920000	24806800	
31) Unknown 31		15.19		266110000	2797830	
32) Unknown 32		15.61		125895000	1483530	
33) Unknown 33		15.89		90600600	1132140	
34) Unknown 34		16.07		79397600	1022110	
35) Unknown 35		16.25		31999700	333318	
36) Unknown 36		16.53		62922800	678905	
37) Unknown 37		16.74		10842000	187926	
38) Unknown 38		17.91		694192000	9197510	
39) Unknown 39		18.45		27489900	354345	
40) Unknown 40		18.53		7425050	349186	
41) Unknown 41		18.57		16622300	350360	
42) Unknown 42		19.47		41567800	626569	
43) Unknown 43		19.60		72591800	942562	
44) Unknown 44		20.08		519915000	8606880	
45) Unknown 45		21.22		39623600	1588860	
46) Unknown 46		21.25		23791000	1528470	
47) Unknown 47		21.27		113869000	1464830	
48) Unknown 48		22.01		7730070	147547	
49) Unknown 49		22.19		24376400	267667	
50) Unknown 50		22.48		1340190	57049	
51) Unknown 51		22.53		3434880	69286	
52) Unknown 52		22.86		53029900	376559	
53) Unknown 53		23.32		1993530	32642	
54) Unknown 54		23.56		10243500	113662	
55) Unknown 55		23.88		3643330	69422	
56) Unknown 56		24.40		15743600	211359	
57) Unknown 57		24.60		66807900	941970	
58) Unknown 58		25.02		55810700	889424	
59) Unknown 59		25.20		3247880	63587	
60) Unknown 60		25.27		1109550	29766	
61) Unknown 61		25.50		86939500	1718740	
62) Unknown 62		25.85		10937300	269319	
63) Unknown 63		26.71		107724000	1290610	
64) Unknown 64		26.95		59809500	1361280	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD1A.CH Vial: 1
Acq On : 6-6-01 20:32:06 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD2B.CH Vial: 1
Acq On : 6-6-01 21:19:14 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:35 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Second Signal						
65) Unknown 65		1.57	136696000	10738700		
66) Unknown 66		1.90	1972720	105215		
67) Unknown 67		1.95	73273300	6479160		
68) Unknown 68		2.20	1779390	146580		
69) Unknown 69		2.39	665197	72066		
70) Unknown 70		3.22	580510	68567		
71) Unknown 71		3.26	1546970	64624		
72) Unknown 72		5.88	9797480	461811		
[illegible]) Unknown 73		6.14	11091500	238152		
[illegible] Unknown 74		6.66	3458390	140387		
75) Unknown 75		7.27	3677820	140149		
76) Unknown 76		7.35	1596510	60006		
77) Unknown 77		8.20	92197700	3107420		
78) Unknown 78		8.77	9165130	289836		
79) Unknown 79		9.04	34796300	1012000		
80) Unknown 80		9.94	24090800	563698		
81) Unknown 81		10.11	2755290	54051		
82) Unknown 82		10.29	9381510	208611		
83) Unknown 83		11.21	4861140	82342		
84) Unknown 84		11.48	2589600	61883		
85) Unknown 85		13.04	16765500	154362		
86) Unknown 86		14.21	242723000	4185490		
87) Unknown 87		14.91	8569600	70846		
88) Unknown 88		15.26	28982300	432415		
89) Unknown 89		16.08	48143200	907589		
90) Unknown 90		16.31	5476510	102187		
91) Unknown 91		16.67	54781000	1203780		
92) Unknown 92		16.76	27969600	578285		
93) Unknown 93		17.39	946061000	23411900		
94) Unknown 94		17.90	299673000	7223950		
95) Unknown 95		18.03	20716100	326549		
96) Unknown 96		18.23	18686300	348022		
97) Unknown 97		18.86	29142600	606895		
98) Unknown 98		18.96	31610000	580707		
99) Unknown 99		19.33	16199600	407760		
100) Unknown100		19.42	16021300	401590		
101) Unknown101		19.76	20003200	343600		
102) Unknown102		20.06	20026900	482355		
103) Unknown103		20.45	30556100	669694		
[illegible] Unknown104		21.21	8086400	126148		
[illegible] Unknown105		21.54	135632000	4019140		
106) Unknown106		21.66	3259170	84076		
107) Unknown107		21.76	6883060	142739		
108) Unknown108		22.05	27760000	431885		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD1A.CH Vial: 1
Acq On : 6-6-01 20:32:06 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD2B.CH Vial: 1
Acq On : 6-6-01 21:19:14 PM Operator: HP Demo
Sample : JUNK HIGH Inst : Instr 324
Misc : INSTR PRIME Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:35 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		22.23	61481800	1799060		
110) Unknown110		22.86	39894100	546422		
111) Unknown111		26.10	629228	23879		
112) Unknown112		26.99	2982860	18683		
113) Unknown113		27.20	3105580	45666		
114) Unknown114		27.30	1054290	23794		
115) Unknown115		27.82	2607490	8766		
116) Unknown116		28.03	6341190	243093		
117) Unknown117		28.10	28264800	515233		
118) Unknown118		29.31	12887200	241220		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD1A.CH
Acq On : 6-6-01 20:32:06 PM
Sample : JUNK HIGH
Misc : INSTR PRIME
IntFile : events.e

Vial: 1
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_01.D\ECD2B.CH
Acq On : 6-6-01 21:19:14 PM
Sample : JUNK HIGH
Misc : INSTR PRIME
IntFile : events2.e

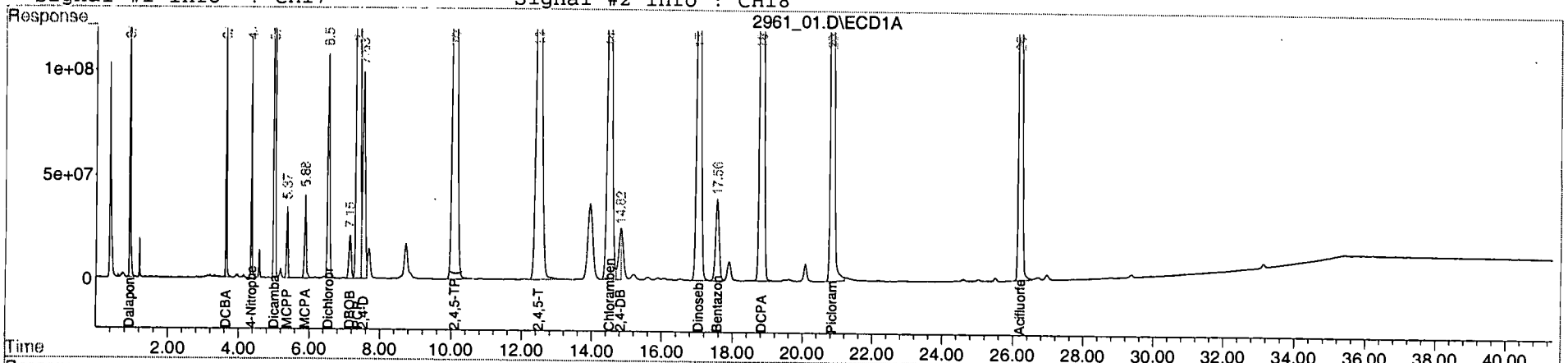
Vial: 1
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

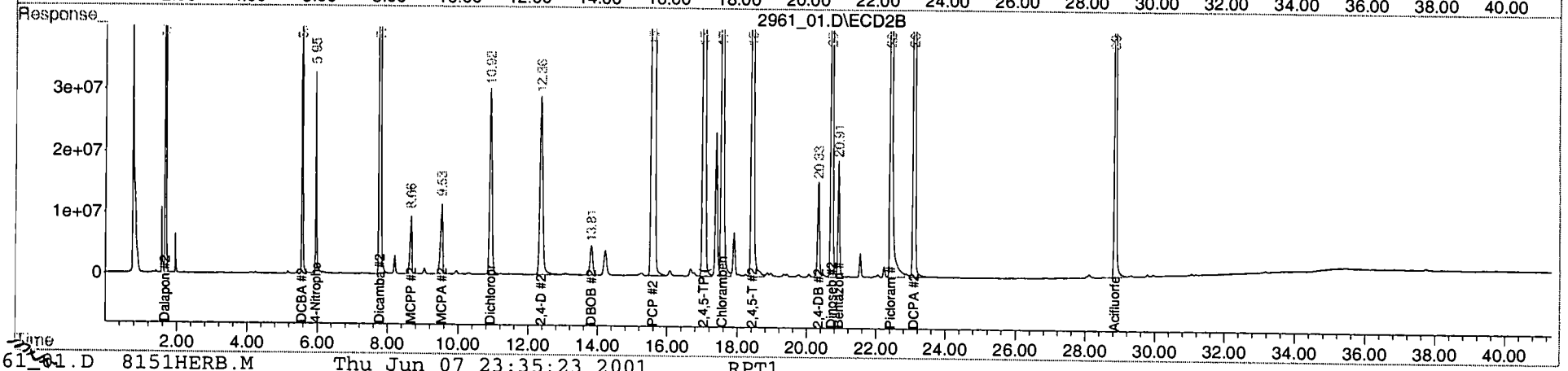
Quant Time: Jun 7 23:35 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17

Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_02.D\ECD1A.CH Vial: 2
Acq On : 6-6-01 21:19:14 PM Operator: HP Demo
Sample : HEXANE Inst : Instr 324
Misc : INSTR BLANK Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_02.D\ECD2B.CH Vial: 2
Acq On : 6-6-01 22:06:21 PM Operator: HP Demo
Sample : HEXANE Inst : Instr 324
Misc : INSTR BLANK Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:35 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
System Monitoring Compounds							
4) S DCAA	0.00	0.00	0	0	N.D.	N.D.	
Spiked Amount 100.000			Recovery	=	0.00%	0.00%	
11) S DBOB	0.00	0.00	0	0	N.D.	N.D.	
Spiked Amount 20.000			Recovery	=	0.00%	0.00%	
Target Compounds							
1) T Dalapon	0.89	0.00	7562764	0	1.202	N.D.	#
2) T DCBA	0.00	0.00	0	0	N.D.	N.D.	
3) T 4-Nitrophenol	0.00	0.00	0	0	N.D.	N.D.	
[illegible] T Dicamba	5.02	0.00	7649913	0	0.527	N.D.	#
[illegible] T MCPP	0.00	0.00	0	0	N.D.	N.D.	
7) T MCPA	0.00	0.00	0	0	N.D.	N.D.	
8) T Dichloroprop	0.00	0.00	0	0	N.D.	N.D.	
9) T 2,4-D	0.00	0.00	0	0	N.D.	N.D.	
10) T PCP	7.37	0.00	4995681	0	0.074	N.D.	#
12) T 2,4,5-TP (Silvex	0.00	0.00	0	0	N.D.	N.D.	
13) T Chloramben	0.00	0.00	0	0	N.D.	N.D.	
14) T 2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
15) T 2,4-DB	0.00	0.00	0	0	N.D.	N.D.	
16) T Picloram	20.86	0.00	12104142	0	0.425	N.D.	#
17) T Bentazon	0.00	0.00	0	0	N.D.	N.D.	
18) T Dinoseb	0.00	0.00	0	0	N.D.	N.D.	
19) T DCPA	18.81	0.00	9745760	0	0.292	N.D.	#
20) T Acifluorfen	0.00	0.00	0	0	N.D.	N.D.	

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	1.08	4134700	75350
2) Unknown 2	1.11	2253960	82886
3) Unknown 3	1.18	5295390	96868
4) Unknown 4	4.70	3193260	146322
5) Unknown 5	5.61	1507590	38533
6) Unknown 6	15.16	39345400	133780
7) Unknown 7	18.34	61634700	65923
8) Unknown 8	19.26	3396870	24264
9) Unknown 9	25.21	243408000	267971
Second Signal			
10) Unknown 10	2.18	903435	115601
11) Unknown 11	2.28	969373	122361
[illegible] Unknown 12	2.52	719010	86395
[illegible] Unknown 13	29.01	1687850	14138
14) Unknown 14	29.19	672343	6005

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_02.D\ECD1A.CH
Acq On : 6-6-01 21:19:14 PM
Sample : HEXANE
Misc : INSTR BLANK
IntFile : events.e

Vial: 2
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

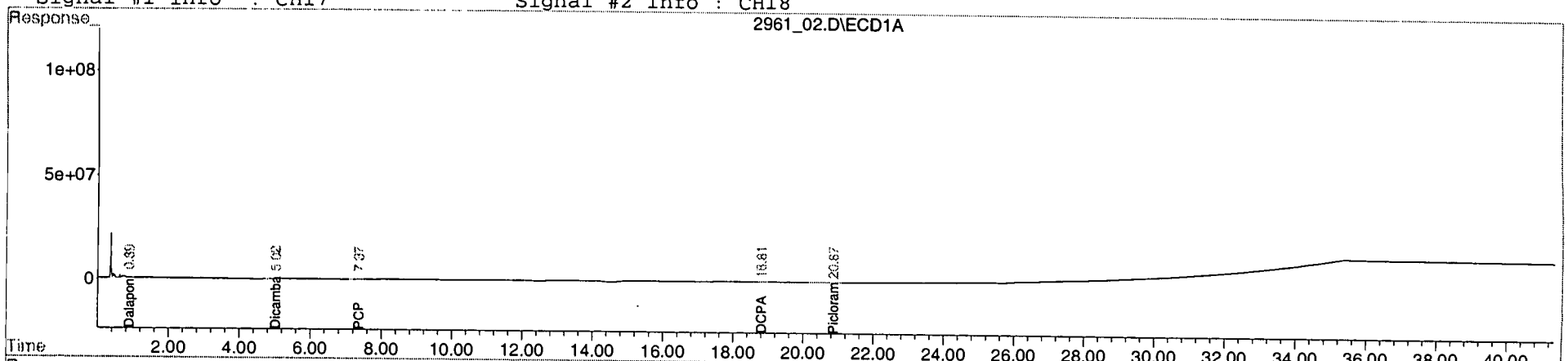
Data File : C:\HPCHEM\2\DATA\2961\2961_02.D\ECD2B.CH
Acq On : 6-6-01 22:06:21 PM
Sample : HEXANE
Misc : INSTR BLANK
IntFile : events2.e

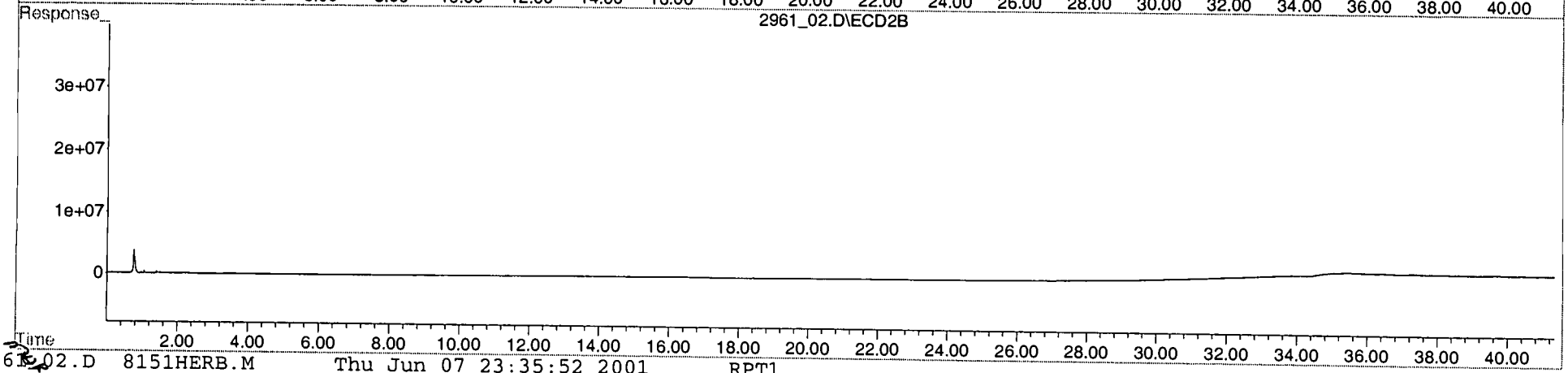
Vial: 2
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:35 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD1A.CH Vial: 3
Acq On : 6-6-01 22:06:21 PM Operator: HP Demo
Sample : 8151 HIGH T852 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD2B.CH Vial: 3
Acq On : 6-6-01 22:53:18 PM Operator: HP Demo
Sample : 8151 HIGH T852 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.76	7.60	439.5E6	133.0E6	99.487	93.007
Spiked Amount 100.000			Recovery =		99.49%	93.01%
11) S DBOB	7.12	13.82	1000.9E6	223.6E6	16.667	15.572
Spiked Amount 20.000			Recovery =		83.34%	77.86%
Target Compounds						
1) T Dalapon	0.93	1.66	5898.2E6	2235.0E6	937.162	972.069
2) T DCBA	3.63	5.56	4695.9E6	1811.9E6	911.930	922.569
3) T 4-Nitrophenol	4.35	5.95	2207.6E6	617.7E6	938.772	919.603
T Dicamba	4.99	7.77	13543.1E6	4977.5E6	932.143	938.369
T MCPP	5.36	8.66	1044.1E6	331.4E6	90.597	87.633
T MCPA	5.87	9.53	1510.2E6	482.1E6	87.526	82.707
8) T Dichloroprop	6.52	10.92	4621.7E6	1295.0E6	954.463	927.861
9) T 2,4-D	7.51	12.37	5241.8E6	1522.9E6	891.767	965.131
10) T PCP	7.35	15.59	64235.6E6	17193.1E6	956.207	891.173
12) T 2,4,5-TP (Silvex	10.06	17.05	26344.5E6	6476.3E6	919.970	923.690
13) T Chloramben	14.47	17.57	18592.6E6	3955.7E6	942.799	1010.170
14) T 2,4,5-T	12.45	18.42	23246.9E6	5405.9E6	916.245	959.423
15) T 2,4-DB	14.80	20.33	2611.0E6	511.5E6	830.878	902.799
16) T Picloram	20.83	22.42	30259.6E6	4636.5E6	1062.437	1139.589
17) T Bentazon	17.55	20.92	2970.7E6	604.5E6	862.363	913.756
18) T Dinoseb	17.02	20.71	17955.8E6	3662.4E6	916.688	942.517
19) T DCPA	18.81	23.09	30167.2E6	6184.3E6	905.341	901.461
20) T Acifluorfen	26.19	28.85	26183.9E6	3246.3E6	972.814	974.421

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.88	2838420	155800
2) Unknown 2	1.09	5465650	268209
3) Unknown 3	1.20	305460000	27471700
4) Unknown 4	3.86	2793810	124515
5) Unknown 5	3.92	22550000	1220710
6) Unknown 6	3.96	39078600	1995470
7) Unknown 7	4.08	16342600	746350
8) Unknown 8	4.13	32684300	1835510
9) Unknown 9	4.20	3805040	212421
10) Unknown 10	4.57	331908000	15838400
11) Unknown 11	4.69	19731900	750354
12) Unknown 12	5.17	202609000	5139170
13) Unknown 13	5.57	9868490	222985
Unknown 14	5.63	13936600	239688
Unknown 15	5.99	46013200	1233090
16) Unknown 16	6.15	36199900	705529
17) Unknown 17	6.29	9669740	236923
18) Unknown 18	6.38	47673400	1190980

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD1A.CH Vial: 3
Acq On : 6-6-01 22:06:21 PM Operator: HP Demo
Sample : 8151 HIGH T852 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD2B.CH Vial: 3
Acq On : 6-6-01 22:53:18 PM Operator: HP Demo
Sample : 8151 HIGH T852 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		6.95	514066000	11261300		
20) Unknown 20		7.66	852487000	14777100		
21) Unknown 21		8.10	86366200	1037350		
22) Unknown 22		8.70	1594560000	19019300		
23) Unknown 23		9.26	79184600	473361		
24) Unknown 24		10.80	50327000	511575		
25) Unknown 25		11.02	13640200	147479		
26) Unknown 26		11.59	33733100	323445		
27) Unknown 27		12.04	31400800	371296		
28) Unknown 28		13.61	12421400	186566		
29) Unknown 29		13.92	3362550000	33199400		
30) Unknown 30		15.17	256119000	2492430		
31) Unknown 31		15.58	140595000	1589520		
32) Unknown 32		15.87	85694400	1035730		
33) Unknown 33		16.04	72886900	895052		
34) Unknown 34		16.23	39246200	417967		
35) Unknown 35		16.50	70005500	714453		
36) Unknown 36		17.88	777127000	10214100		
37) Unknown 37		18.44	5900380	103281		
38) Unknown 38		18.55	6600600	114757		
39) Unknown 39		19.46	36124800	650276		
40) Unknown 40		19.59	126667000	1630830		
41) Unknown 41		20.06	606928000	9445760		
42) Unknown 42		21.24	479836000	2675750		
43) Unknown 43		22.00	45848300	440703		
44) Unknown 44		22.74	11300000	182316		
45) Unknown 45		22.91	28003100	258608		
46) Unknown 46		23.31	3760000	52518		
47) Unknown 47		23.61	14915400	113099		
48) Unknown 48		23.88	2878870	47076		
49) Unknown 49		24.38	21531500	225248		
50) Unknown 50		24.58	102788000	1392090		
51) Unknown 51		25.00	74567300	429983		
52) Unknown 52		25.48	128322000	2427370		
53) Unknown 53		25.83	23146500	547354		
54) Unknown 54		25.98	8830980	156208		
55) Unknown 55		26.70	126613000	1501820		
56) Unknown 56		26.94	102485000	1879990		
Second Signal						
57) Unknown 57		1.57	136464000	10102800		
58) Unknown 58		1.76	2324350	86198		
59) Unknown 59		1.90	2306780	111441		
60) Unknown 60		1.95	104254000	8937930		
61) Unknown 61		2.11	1253200	60629		
62) Unknown 62		2.20	1605880	121146		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD1A.CH Vial: 3
Acq On : 6-6-01 22:06:21 PM Operator: HP Demo
Sample : 8151 HIGH T852 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD2B.CH Vial: 3
Acq On : 6-6-01 22:53:18 PM Operator: HP Demo
Sample : 8151 HIGH T852 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
63) Unknown 63		2.39		486468	54361	
64) Unknown 64		2.79		512046	60713	
65) Unknown 65		3.22		405780	50449	
66) Unknown 66		5.88		9759770	437413	
67) Unknown 67		6.14		12597300	270034	
68) Unknown 68		6.66		2838440	120161	
69) Unknown 69		7.27		2753680	111350	
70) Unknown 70		8.20		94204500	3070890	
71) Unknown 71		8.77		9185640	288263	
72) Unknown 72		9.04		32008800	923002	
73) Unknown 73		9.94		31784800	595556	
[illegible] Unknown 74		10.29		9357870	208276	
[illegible]) Unknown 75		11.21		4533050	83458	
76) Unknown 76		11.48		2126090	51837	
77) Unknown 77		13.03		148551000	2277170	
78) Unknown 78		14.22		200962000	3438480	
79) Unknown 79		14.94		6657060	66361	
80) Unknown 80		15.26		26616600	412881	
81) Unknown 81		15.43		7220700	176537	
82) Unknown 82		16.08		43637400	819191	
83) Unknown 83		16.32		10994400	124571	
84) Unknown 84		16.67		52847200	1165700	
85) Unknown 85		16.77		23242600	432673	
86) Unknown 86		17.40		692421000	16663600	
87) Unknown 87		17.90		276065000	6787990	
88) Unknown 88		18.03		20905100	311906	
89) Unknown 89		18.23		15020400	274258	
90) Unknown 90		18.86		26784900	553066	
91) Unknown 91		18.96		27531100	445712	
92) Unknown 92		19.33		12926500	309144	
93) Unknown 93		19.42		12995400	311440	
94) Unknown 94		19.76		17565200	293567	
95) Unknown 95		20.06		17202200	446057	
96) Unknown 96		20.45		29458200	634085	
97) Unknown 97		21.21		6844240	115960	
98) Unknown 98		21.54		121743000	3559430	
99) Unknown 99		21.76		9746830	161810	
100) Unknown100		22.06		29603400	503314	
101) Unknown101		22.23		60226000	1714250	
102) Unknown102		28.10		37680900	564920	
103) Unknown103		29.32		16412700	249332	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD1A.CH
Acq On : 6-6-01 22:06:21 PM
Sample : 8151 HIGH T852
Misc :
IntFile : events.e

Vial: 3
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_03.D\ECD2B.CH
Acq On : 6-6-01 22:53:18 PM
Sample : 8151 HIGH T852
Misc :
IntFile : events2.e

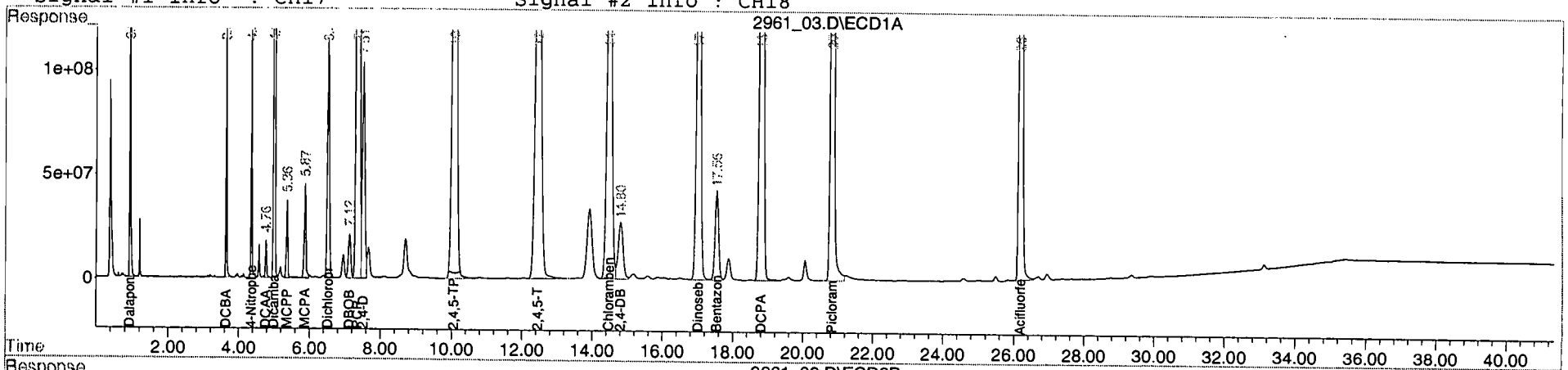
Vial: 3
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

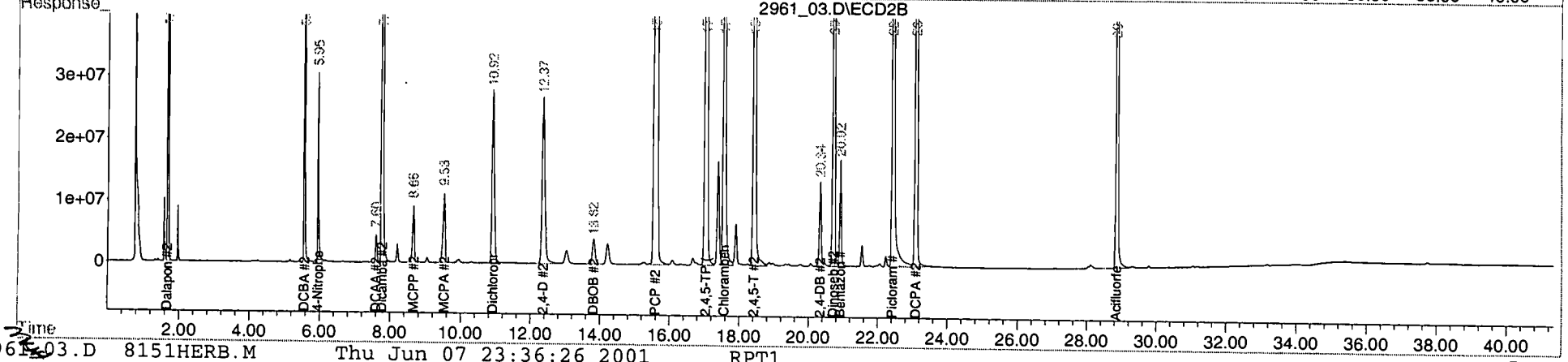
Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17

Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD1A.CH Vial: 4
Acq On : 6-6-01 22:53:18 PM Operator: HP Demo
Sample : 8151 INT2 T705 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD2B.CH Vial: 4
Acq On : 6-6-01 23:40:27 PM Operator: HP Demo
Sample : 8151 INT2 T705 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.76	7.60	445.5E6	143.8E6	100.859	100.574
Spiked Amount 100.000			Recovery	=	100.86%	100.57%
11) S DBOB	7.12	13.81	1279.9E6	304.6E6	21.311	21.217
Spiked Amount 20.000			Recovery	=	106.56%	106.08%
Target Compounds						
1) T Dalapon	0.93	1.66	4637.9E6	1722.9E6	736.922	749.346
2) T DCBA	3.63	5.56	3741.5E6	1438.1E6	726.596	732.247
3) T 4-Nitrophenol	4.35	5.95	1691.8E6	480.9E6	719.432	715.927
4) T Dicamba	4.99	7.77	10507.9E6	3880.1E6	723.242	731.501
5) T MCPP	5.36	8.65	835.8E6	270.6E6	72.519	71.562
7) T MCPA	5.86	9.52	1212.0E6	398.4E6	70.244	68.335
8) T Dichloroprop	6.52	10.91	3415.0E6	982.9E6	705.251	704.227
9) T 2,4-D	7.51	12.36	3831.7E6	1116.8E6	651.873	707.748
10) T PCP	7.35	15.59	49114.4E6	13894.1E6	731.114	720.179
12) T 2,4,5-TP (Silvex	10.06	17.04	20524.6E6	5220.0E6	716.734	744.508
13) T Chloramben	14.48	17.56	14295.5E6	3048.4E6	724.900	778.490
14) T 2,4,5-T	12.45	18.42	17963.5E6	4244.1E6	708.005	753.242
15) T 2,4-DB	14.81	20.33	2219.8E6	413.2E6	706.366	729.362
16) T Picloram	20.83	22.42	20276.6E6	3126.4E6	711.926	768.417
17) T Bentazon	17.55	20.91	2342.5E6	488.5E6	680.008	738.522
18) T Dinoseb	17.02	20.71	13852.9E6	2912.5E6	707.227	749.524
19) T DCPA	18.81	23.09	23524.6E6	5055.8E6	705.989	736.953
20) T Acifluorfen	26.19	28.85	19802.0E6	2613.2E6	735.707	784.388

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.88	2306490	122522
2) Unknown 2	1.20	523256000	48192400
3) Unknown 3	3.85	2408220	88783
4) Unknown 4	3.96	31073700	1371950
5) Unknown 5	4.08	8804190	415199
6) Unknown 6	4.13	31137600	1775180
7) Unknown 7	4.57	324186000	14497600
8) Unknown 8	4.69	26881200	1166620
9) Unknown 9	5.17	141493000	3648280
10) Unknown 10	5.58	832766	31342
11) Unknown 11	6.00	122109000	3328380
12) Unknown 12	6.15	21084000	382325
13) Unknown 13	6.28	7512730	205567
14) Unknown 14	6.38	37297600	1014860
15) Unknown 15	6.95	1696980000	36814600
16) Unknown 16	7.66	378434000	6243670
17) Unknown 17	8.10	200091000	3006350
18) Unknown 18	8.70	1220490000	15192500

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD1A.CH Vial: 4
Acq On : 6-6-01 22:53:18 PM Operator: HP Demo
Sample : 8151 INT2 T705 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD2B.CH Vial: 4
Acq On : 6-6-01 23:40:27 PM Operator: HP Demo
Sample : 8151 INT2 T705 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		8.96	112362000	1210000		
20) Unknown 20		9.26	121050000	1026940		
21) Unknown 21		10.80	107988000	841585		
22) Unknown 22		11.60	34913000	298622		
23) Unknown 23		12.06	12123900	154689		
24) Unknown 24		13.82	14745000	167245		
25) Unknown 25		14.07	57469800	634120		
26) Unknown 26		15.58	122248000	1176540		
27) Unknown 27		16.01	23615300	258481		
28) Unknown 28		16.23	52082300	547987		
[illegible]) Unknown 29		16.47	48181300	567915		
[illegible] Unknown 30		16.71	9391400	141434		
[illegible]) Unknown 31		17.88	606092000	8145410		
32) Unknown 32		18.44	4216980	69713		
33) Unknown 33		18.55	5742990	96629		
34) Unknown 34		19.59	150267000	1616810		
35) Unknown 35		20.07	557281000	8746250		
36) Unknown 36		20.28	42274600	695129		
37) Unknown 37		20.50	5250280	83193		
38) Unknown 38		21.25	503699000	3224490		
39) Unknown 39		21.99	25832900	314755		
40) Unknown 40		22.92	28412800	249190		
41) Unknown 41		23.64	19895000	224331		
42) Unknown 42		23.84	2516820	49681		
43) Unknown 43		24.37	7202510	79343		
44) Unknown 44		24.57	70572800	1014210		
45) Unknown 45		24.89	19983300	327584		
46) Unknown 46		25.00	121081000	1201030		
47) Unknown 47		25.48	184975000	3294870		
48) Unknown 48		25.83	57662400	1164520		
49) Unknown 49		25.96	21743600	406512		
50) Unknown 50		26.69	119214000	1244570		
51) Unknown 51		26.94	71039200	1395180		
Second Signal						
52) Unknown 52		1.57	102681000	7786560		
53) Unknown 53		1.95	185201000	16117200		
54) Unknown 54		2.11	918500	84720		
55) Unknown 55		2.79	1477310	196357		
56) Unknown 56		5.88	8138740	328503		
57) Unknown 57		6.14	13707300	336694		
[illegible] Unknown 58		8.20	91765300	2835020		
[illegible] Unknown 59		8.76	8742410	273336		
60) Unknown 60		9.03	23630200	662386		
61) Unknown 61		9.90	51396100	914168		
62) Unknown 62		10.13	3432190	63702		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD1A.CH Vial: 4
Acq On : 6-6-01 22:53:18 PM Operator: HP Demo
Sample : 8151 INT2 T705 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD2B.CH Vial: 4
Acq On : 6-6-01 23:40:27 PM Operator: HP Demo
Sample : 8151 INT2 T705 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
63) Unknown 63		10.29		9486620	201565	
64) Unknown 64		11.20		5194030	91144	
65) Unknown 65		13.03		488273000	7817030	
66) Unknown 66		14.21		75145600	1280800	
67) Unknown 67		15.26		24489100	395867	
68) Unknown 68		15.42		31790000	699808	
69) Unknown 69		16.08		37260800	648438	
70) Unknown 70		16.31		15057400	215373	
71) Unknown 71		16.67		49274300	1089360	
72) Unknown 72		16.86		11772900	251903	
73) Unknown 73		17.90		233680000	5493380	
74) Unknown 74		18.03		19831800	251406	
75) Unknown 75		18.85		30396500	403806	
76) Unknown 76		19.24		6960580	140831	
77) Unknown 77		19.76		10326000	146799	
78) Unknown 78		20.06		14799500	374804	
79) Unknown 79		20.45		29434600	589309	
80) Unknown 80		21.21		5901920	99347	
81) Unknown 81		21.54		98586300	2880890	
82) Unknown 82		21.76		9248590	192410	
83) Unknown 83		21.93		6654360	176124	
84) Unknown 84		22.06		21649600	444797	
85) Unknown 85		22.23		59628900	1659130	
86) Unknown 86		22.86		40731900	510610	
87) Unknown 87		23.72		5351660	100532	
88) Unknown 88		26.19		5304870	156154	
89) Unknown 89		27.35		2346590	47734	
90) Unknown 90		28.10		41128200	637468	
91) Unknown 91		29.32		16319100	223777	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD1A.CH
Acq On : 6-6-01 22:53:18 PM
Sample : 8151 INT2 T705
Misc :
IntFile : events.e

Vial: 4
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

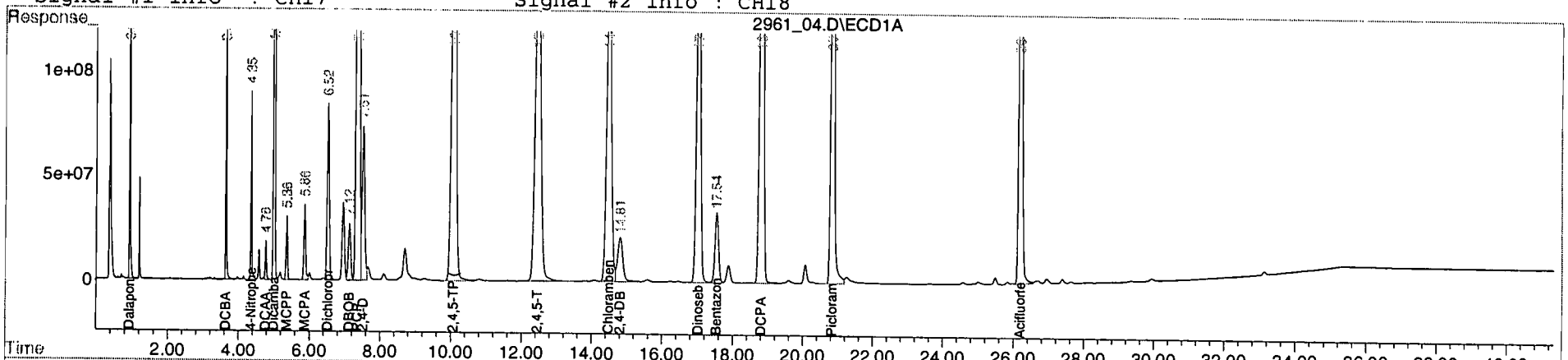
Data File : C:\HPCHEM\2\DATA\2961\2961_04.D\ECD2B.CH
Acq On : 6-6-01 23:40:27 PM
Sample : 8151 INT2 T705
Misc :
IntFile : events2.e

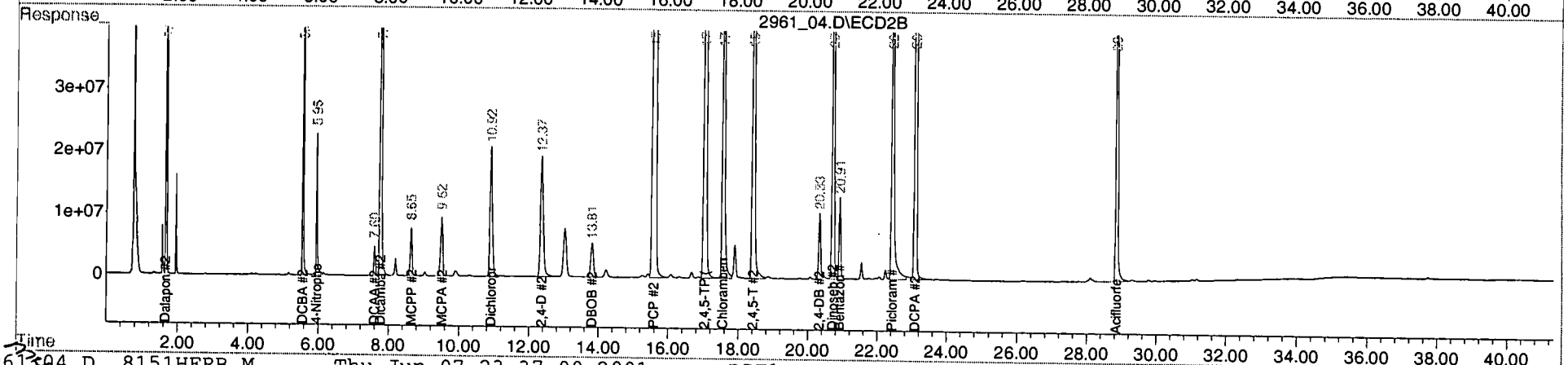
Vial: 4
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:36 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD1A.CH Vial: 5
Acq On : 6-6-01 23:40:27 PM Operator: HP Demo
Sample : 8151 MED T836 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD2B.CH Vial: 5
Acq On : 6-7-01 0:27:28 PM Operator: HP Demo
Sample : 8151 MED T836 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.76	7.60	417.5E6	139.0E6	94.521	97.256
Spiked Amount 100.000			Recovery =		94.52%	97.26%
11) S DBOB	7.13	13.82	1118.2E6	267.3E6	18.619	18.617
Spiked Amount 20.000			Recovery =		93.09%	93.09%
Target Compounds						
1) T Dalapon	0.93	1.66	2934.3E6	1056.1E6	466.236	459.353
2) T DCBA	3.63	5.56	2372.1E6	911.3E6	460.668	463.983
3) T 4-Nitrophenol	4.35	5.95	1080.2E6	306.8E6	459.354	456.750
[illegible] T Dicamba	4.99	7.78	6727.2E6	2487.6E6	463.019	468.981
[illegible] T MCPP	5.35	8.64	531.5E6	175.4E6	46.117	46.391
[illegible] T MCPA	5.86	9.51	790.8E6	263.3E6	45.831	45.169
8) T Dichloroprop	6.52	10.92	2159.5E6	641.1E6	445.968	459.333
9) T 2,4-D	7.52	12.37	2506.3E6	728.5E6	426.389	461.708
10) T PCP	7.35	15.59	31288.7E6	9307.5E6	465.762	482.437
12) T 2,4,5-TP (Silvex	10.06	17.04	13226.3E6	3417.6E6	461.873	487.430
13) T Chloramben	14.48	17.56	9380.4E6	1952.8E6	475.664	498.698
14) T 2,4,5-T	12.45	18.42	11796.6E6	2766.1E6	464.948	490.921
15) T 2,4-DB	14.81	20.34	1522.8E6	263.3E6	484.574	464.763
16) T Picloram	20.83	22.43	13186.4E6	2016.3E6	462.985	495.574
17) T Bentazon	17.54	20.92	1565.4E6	313.5E6	454.433	473.945
18) T Dinoseb	17.02	20.71	9034.4E6	1891.7E6	461.228	486.836
19) T DCPA	18.80	23.09	15420.0E6	3401.5E6	462.765	495.820
20) T Acifluorfen	26.19	28.85	12909.4E6	1725.9E6	479.626	518.044

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.89	2759890	130946
2) Unknown 2	1.20	324623000	29210200
3) Unknown 3	3.85	3797910	87886
4) Unknown 4	3.96	22375900	937056
5) Unknown 5	4.08	7906840	298500
6) Unknown 6	4.13	21413000	1140010
7) Unknown 7	4.57	207186000	9203530
8) Unknown 8	4.69	16798800	766133
9) Unknown 9	5.17	97373000	2381030
10) Unknown 10	5.99	85839000	2201090
11) Unknown 11	6.15	14776800	275576
12) Unknown 12	6.29	7342420	198243
13) Unknown 13	6.38	25209400	669475
[illegible] Unknown 14	6.95	1083370000	23092400
[illegible] Unknown 15	7.66	270442000	4315230
16) Unknown 16	8.10	141808000	1991030
17) Unknown 17	8.70	856174000	9733600
18) Unknown 18	9.26	82626000	670469

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD1A.CH Vial: 5
Acq On : 6-6-01 23:40:27 PM Operator: HP Demo
Sample : 8151 MED T836 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD2B.CH Vial: 5
Acq On : 6-7-01 0:27:28 PM Operator: HP Demo
Sample : 8151 MED T836 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		10.80	74054100	566459		
20) Unknown 20		11.60	18886300	184993		
21) Unknown 21		13.82	13750000	133536		
22) Unknown 22		14.08	49864000	517532		
23) Unknown 23		15.58	115281000	886899		
24) Unknown 24		16.01	28895200	272774		
25) Unknown 25		16.23	50224600	464338		
26) Unknown 26		16.47	43980300	443441		
27) Unknown 27		17.88	415003000	5440860		
28) Unknown 28		18.55	5618590	90708		
[illegible]) Unknown 29		19.59	107351000	1126110		
[illegible] Unknown 30		20.07	362628000	5688350		
[illegible]) Unknown 31		20.27	28497000	481073		
32) Unknown 32		21.25	346602000	2068750		
33) Unknown 33		22.93	14338600	132857		
34) Unknown 34		23.65	6951700	75806		
35) Unknown 35		24.09	5369620	44355		
36) Unknown 36		24.37	9933810	93929		
37) Unknown 37		24.58	60925200	747693		
38) Unknown 38		25.01	134660000	1200840		
39) Unknown 39		25.48	118188000	2022160		
40) Unknown 40		25.83	37627400	743208		
41) Unknown 41		25.97	17572500	308198		
42) Unknown 42		26.69	83569900	856665		
43) Unknown 43		26.94	44998000	865797		
Second Signal						
44) Unknown 44		1.57	63836200	4365020		
45) Unknown 45		1.95	109918000	8990910		
46) Unknown 46		2.11	514544	46949		
47) Unknown 47		2.79	1081960	122317		
48) Unknown 48		5.88	5218760	217624		
49) Unknown 49		6.14	10377600	244585		
50) Unknown 50		8.20	57963800	1761900		
51) Unknown 51		8.76	5734910	180455		
52) Unknown 52		9.03	16396700	438940		
53) Unknown 53		9.89	33575000	589547		
54) Unknown 54		10.29	6245170	131843		
55) Unknown 55		11.20	3511760	60046		
56) Unknown 56		13.03	323830000	5174300		
57) Unknown 57		14.22	49367200	831050		
[illegible] Unknown 58		15.27	16265000	271129		
[illegible] Unknown 59		15.42	20223400	449988		
60) Unknown 60		16.08	24554500	423185		
61) Unknown 61		16.32	10055300	139654		
62) Unknown 62		16.67	32598000	713546		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD1A.CH Vial: 5
Acq On : 6-6-01 23:40:27 PM Operator: HP Demo
Sample : 8151 MED T836 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD2B.CH Vial: 5
Acq On : 6-7-01 0:27:28 PM Operator: HP Demo
Sample : 8151 MED T836 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
63) Unknown 63		16.86	7303500	157744		
64) Unknown 64		17.90	151176000	3596890		
65) Unknown 65		18.03	10171900	160897		
66) Unknown 66		18.86	21255500	272643		
67) Unknown 67		19.24	4410400	95027		
68) Unknown 68		19.76	6660260	98542		
69) Unknown 69		20.06	9769660	224911		
70) Unknown 70		20.45	13739200	346873		
71) Unknown 71		21.54	65443300	1877540		
72) Unknown 72		21.76	6805600	133364		
73) Unknown 73		22.06	19614500	307237		
74) Unknown 74		22.23	36792200	982091		
75) Unknown 75		22.86	32192100	398891		
76) Unknown 76		26.19	3432450	104636		
77) Unknown 77		28.10	28967700	418487		
78) Unknown 78		29.32	10902800	143480		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD1A.CH
Acq On : 6-6-01 23:40:27 PM
Sample : 8151 MED T836
Misc :
IntFile : events.e

Vial: 5
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

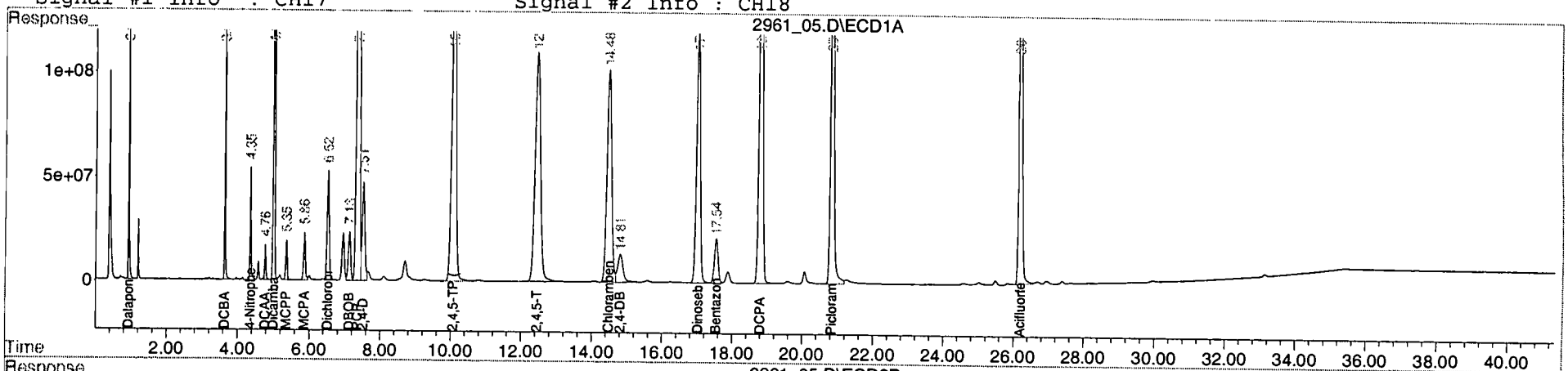
Data File : C:\HPCHEM\2\DATA\2961\2961_05.D\ECD2B.CH
Acq On : 6-7-01 0:27:28 PM
Sample : 8151 MED T836
Misc :
IntFile : events2.e

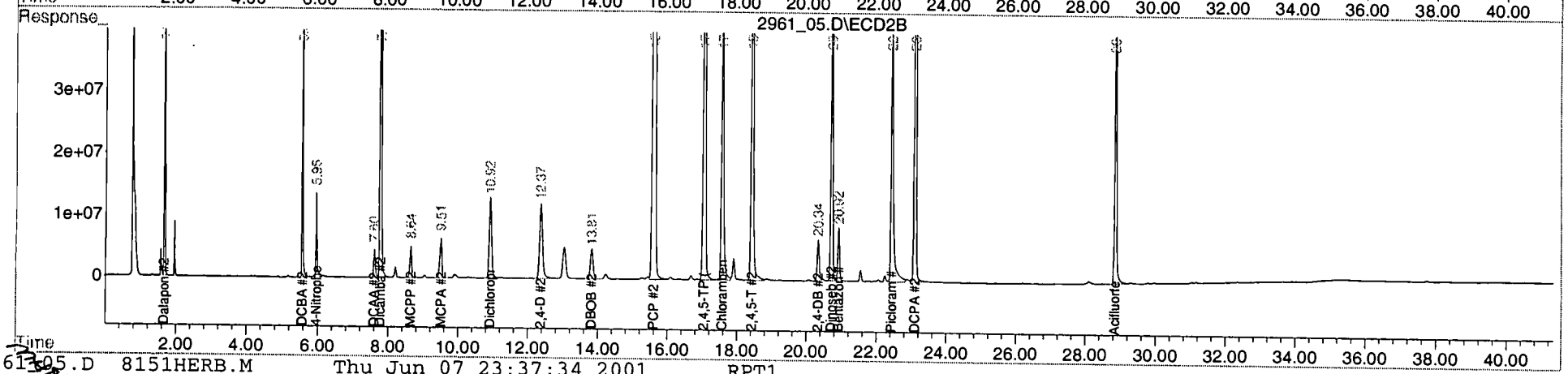
Vial: 5
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD1A.CH Vial: 6
Acq On : 6-7-01 0:27:28 PM Operator: HP Demo
Sample : 8151 INT1 T707 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD2B.CH Vial: 6
Acq On : 6-7-01 1:14:44 PM Operator: HP Demo
Sample : 8151 INT1 T707 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.76	7.60	447.9E6	149.5E6	101.390	104.561
Spiked Amount 100.000			Recovery =		101.39%	104.56%
11) S DBOB	7.13	13.81	1227.4E6	305.4E6	20.438	21.272
Spiked Amount 20.000			Recovery =		102.19%	106.36%
Target Compounds						
1) T Dalapon	0.93	1.66	1700.4E6	621.4E6	270.181	270.275
2) T DCBA	3.63	5.56	1400.6E6	538.5E6	271.992	274.188
3) T 4-Nitrophenol	4.35	5.95	617.9E6	184.2E6	262.756	274.276
5) T Dicamba	4.99	7.77	3884.1E6	1456.0E6	267.339	274.496
6) T MCPP	5.35	8.63	310.3E6	104.8E6	26.921	27.719
7) T MCPA	5.85	9.49	464.2E6	162.2E6	26.906	27.831
8) T Dichloroprop	6.52	10.92	1304.0E6	383.8E6	269.302	274.976
9) T 2,4-D	7.52	12.37	1676.1E6	428.0E6	285.156	271.273
10) T PCP	7.35	15.59	17891.1E6	5443.5E6	266.325	282.156
12) T 2,4,5-TP (Silvex	10.07	17.04	7788.8E6	1922.6E6	271.991	274.213
13) T Chloramben	14.48	17.56	5274.6E6	1028.6E6	267.469	262.681
14) T 2,4,5-T	12.46	18.42	6892.1E6	1521.0E6	271.641	269.948
15) T 2,4-DB	14.81	20.33	960.3E6	159.3E6	305.597	281.117
16) T Picloram	20.84	22.43	7271.0E6	1026.8E6	255.291	252.386
17) T Bentazon	17.55	20.91	934.0E6	179.6E6	271.143	271.485
18) T Dinoseb	17.03	20.71	5358.1E6	1044.9E6	273.544	268.907
19) T DCPA	18.81	23.09	9040.0E6	1886.2E6	271.296	274.943
20) T Acifluorfen	26.19	28.85	6988.7E6	882.0E6	259.652	264.739

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.88	2372040	117638
2) Unknown 2	1.20	180869000	16403800
3) Unknown 3	3.96	15260600	556582
4) Unknown 4	4.08	6908850	243579
5) Unknown 5	4.13	13790900	669971
6) Unknown 6	4.57	117042000	5194440
7) Unknown 7	4.69	13353800	617891
8) Unknown 8	5.17	59878700	1397410
9) Unknown 9	5.99	52044700	1333570
10) Unknown 10	6.14	9881090	186609
11) Unknown 11	6.28	7816330	200843
12) Unknown 12	6.38	15516000	399876
13) Unknown 13	6.95	650198000	13747300
Unknown 14	8.11	90570800	1179100
Unknown 15	8.70	515982000	5497350
16) Unknown 16	9.26	63849500	438962
17) Unknown 17	10.81	43016400	336073
18) Unknown 18	11.61	10001300	100411

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD1A.CH Vial: 6
Acq On : 6-7-01 0:27:28 PM Operator: HP Demo
Sample : 8151 INT1 T707 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD2B.CH Vial: 6
Acq On : 6-7-01 1:14:44 PM Operator: HP Demo
Sample : 8151 INT1 T707 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		14.07	32498300	305396		
20) Unknown 20		15.59	97267400	617938		
21) Unknown 21		16.23	38899800	330641		
22) Unknown 22		16.48	37892700	324119		
23) Unknown 23		17.88	258115000	3171960		
24) Unknown 24		19.59	82540600	865058		
25) Unknown 25		20.08	201362000	2914130		
26) Unknown 26		20.27	17378000	305307		
27) Unknown 27		21.26	172264000	1140460		
28) Unknown 28		22.92	8830220	80942		
[illegible]) Unknown 29		23.65	6315020	76535		
[illegible] Unknown 30		23.84	3568370	48250		
31) Unknown 31		24.58	71449300	569526		
32) Unknown 32		24.77	4247180	177163		
33) Unknown 33		25.02	102697000	593729		
34) Unknown 34		25.49	66578500	1117090		
35) Unknown 35		25.84	16916700	367686		
36) Unknown 36		25.98	13026200	213500		
37) Unknown 37		26.70	51961000	488471		
38) Unknown 38		26.94	24303400	440663		
Second Signal						
39) Unknown 39		1.57	38578400	2914240		
40) Unknown 40		1.95	62811500	5507020		
41) Unknown 41		2.79	692248	74223		
42) Unknown 42		5.83	436135	33410		
43) Unknown 43		5.88	2421390	112502		
44) Unknown 44		6.14	5906950	184077		
45) Unknown 45		8.20	33641400	996338		
46) Unknown 46		8.76	3393480	105406		
47) Unknown 47		9.03	9256530	253838		
48) Unknown 48		9.89	21718300	359789		
49) Unknown 49		10.29	3620600	80857		
50) Unknown 50		13.03	195785000	3094950		
51) Unknown 51		14.21	28975500	476412		
52) Unknown 52		15.26	9305780	160342		
53) Unknown 53		15.42	11451400	253840		
54) Unknown 54		16.08	15275000	243982		
55) Unknown 55		16.32	5622060	77193		
56) Unknown 56		16.67	18531400	399013		
57) Unknown 57		16.86	3522750	80765		
[illegible] Unknown 58		17.90	92580500	1954170		
[illegible] Unknown 59		18.86	12969800	179612		
60) Unknown 60		20.06	5190080	122190		
61) Unknown 61		21.54	35858600	1085670		
62) Unknown 62		21.76	2872750	68115		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD1A.CH Vial: 6
Acq On : 6-7-01 0:27:28 PM Operator: HP Demo
Sample : 8151 INT1 T707 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD2B.CH Vial: 6
Acq On : 6-7-01 1:14:44 PM Operator: HP Demo
Sample : 8151 INT1 T707 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
63) Unknown 63		22.06	13314600	233775		
64) Unknown 64		22.23	17655400	435866		
65) Unknown 65		22.86	23244300	327313		
66) Unknown 66		26.19	2376490	60537		
67) Unknown 67		28.10	16717700	222109		
68) Unknown 68		29.32	6142780	75908		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD1A.CH
Acq On : 6-7-01 0:27:28 PM
Sample : 8151 INT1 T707
Misc :
IntFile : events.e

Vial: 6
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

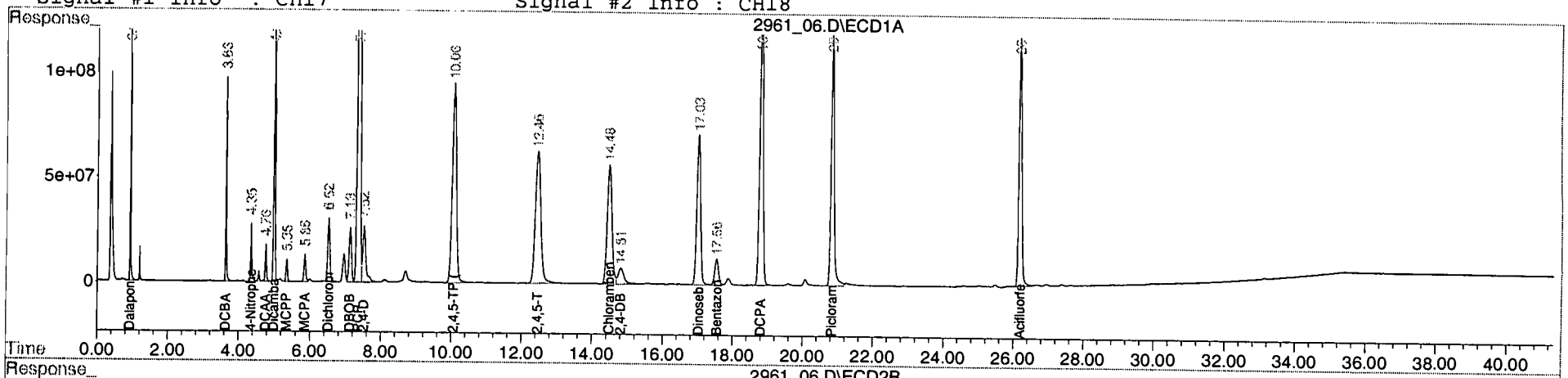
Data File : C:\HPCHEM\2\DATA\2961\2961_06.D\ECD2B.CH
Acq On : 6-7-01 1:14:44 PM
Sample : 8151 INT1 T707
Misc :
IntFile : events2.e

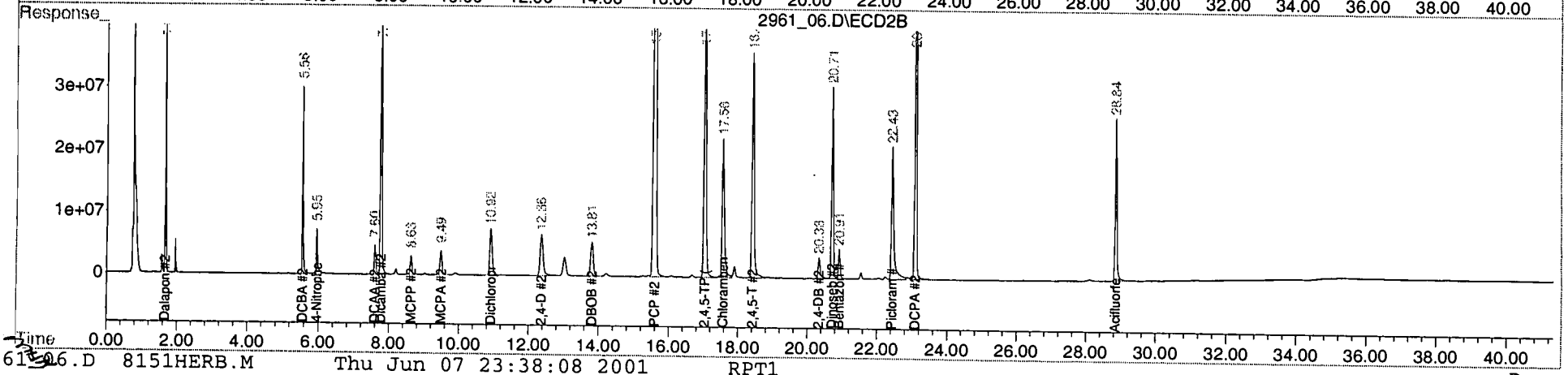
Vial: 6
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:37 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_07.D\ECD1A.CH Vial: 7
Acq On : 6-7-01 1:14:44 PM Operator: HP Demo
Sample : 8151 LOW T708 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_07.D\ECD2B.CH Vial: 7
Acq On : 6-7-01 2:01:43 PM Operator: HP Demo
Sample : 8151 LOW T708 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:33 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:22:04 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.76	7.60	458.3E6	149.5E6	104.723	105.818
Spiked Amount 100.000			Recovery	=	104.72%	105.82%
11) S DBOB	7.13	13.81	1379.2E6	334.9E6	23.849	24.334
Spiked Amount 20.000			Recovery	=	119.25%	121.67%
Target Compounds						
1) T Dalapon	0.92	1.66	671.6E6	236.6E6	108.528	103.651
2) T DCBA	3.63	5.56	571.6E6	211.4E6	114.135	109.734
3) T 4-Nitrophenol	4.35	5.96	266.3E6	74912137	117.097	114.830
[illegible] T Dicamba	4.99	7.77	1610.0E6	557.1E6	113.893	106.374
[illegible] T MCPP	5.35	8.62	130.0E6	42842618	11.652	11.719
[illegible] T MCPA	5.85	9.48	206.2E6	72588319	12.567	13.265
8) T Dichloroprop	6.52	10.92	550.1E6	155.6E6	117.606	114.748
9) T 2,4-D	7.52	12.37	732.2E6	170.8E6	132.718	110.556
10) T PCP	7.35	15.59	7202.4E6	2035.5E6	109.184	106.983
12) T 2,4,5-TP (Silvex	10.07	17.04	3186.3E6	709.5E6	114.493	101.495
13) T Chloramben	14.49	17.58	2109.1E6	353.9E6	108.837	88.248
14) T 2,4,5-T	12.46	18.43	2850.0E6	549.2E6	115.901	96.847
15) T 2,4-DB	14.82	20.34	325.5E6	60663823	104.511m	109.000
16) T Picloram	20.84	22.44	2965.5E6	339.8E6	105.203	80.211
17) T Bentazon	17.55	20.92	426.3E6	70631552	131.565	108.611
18) T Dinoseb	17.02	20.71	2201.1E6	392.0E6	115.957	101.104
19) T DCPA	18.81	23.09	3807.4E6	702.9E6	118.488	103.084
20) T Acifluorfen	26.18	28.85	2821.8E6	294.7E6	106.122	85.989

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.88	1844560	98251
2) Unknown 2	1.20	69093400	6411440
3) Unknown 3	3.96	4783420	191108
4) Unknown 4	4.08	3844920	144964
5) Unknown 5	4.13	5597410	266238
6) Unknown 6	4.57	46528500	1971540
7) Unknown 7	4.69	8503360	407960
8) Unknown 8	5.17	31202000	633561
9) Unknown 9	5.60	3065250	33019
10) Unknown 10	5.99	23491200	601517
11) Unknown 11	6.14	6338490	116583
12) Unknown 12	6.29	8083450	195310
13) Unknown 13	6.38	7161810	185749
[illegible] Unknown 14	6.95	271259000	5635630
[illegible] Unknown 15	8.11	31563700	450165
16) Unknown 16	8.70	193986000	2177330
17) Unknown 17	9.26	36523000	195849
18) Unknown 18	10.80	17767100	143894

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_07.D\ECD1A.CH Vial: 7
Acq On : 6-7-01 1:14:44 PM Operator: HP Demo
Sample : 8151 LOW T708 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_07.D\ECD2B.CH Vial: 7
Acq On : 6-7-01 2:01:43 PM Operator: HP Demo
Sample : 8151 LOW T708 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:33 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:22:04 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		14.05	16076500	148488		
20) Unknown 20		15.59	93664500	418753		
21) Unknown 21		16.23	36086700	265650		
22) Unknown 22		17.88	132723000	1402490		
23) Unknown 23		19.59	48593600	464360		
24) Unknown 24		20.08	89560500	1104340		
25) Unknown 25		21.26	74561000	517977		
26) Unknown 26		22.86	5610790	51966		
27) Unknown 27		23.65	4712990	42566		
28) Unknown 28		24.58	69288800	369328		
29) Unknown 29		25.02	141859000	1103270		
30) Unknown 30		25.48	32783900	478505		
31) Unknown 31		25.84	5539390	135254		
32) Unknown 32		26.69	23021400	193421		
33) Unknown 33		26.94	10081100	170858		
Second Signal						
34) Unknown 34		1.57	15681100	1201840		
35) Unknown 35		1.95	22882100	2040640		
36) Unknown 36		6.14	3590210	112900		
37) Unknown 37		8.20	12966700	368049		
38) Unknown 38		9.03	3920560	106029		
39) Unknown 39		9.89	8834070	143494		
40) Unknown 40		13.03	80212700	1242500		
41) Unknown 41		14.22	11509500	186573		
42) Unknown 42		15.27	2769250	56925		
43) Unknown 43		15.42	3647470	86499		
44) Unknown 44		16.08	4729930	83485		
45) Unknown 45		16.68	6880250	147372		
46) Unknown 46		17.90	35261200	726241		
47) Unknown 47		18.85	5253400	81651		
48) Unknown 48		21.54	13854800	408339		
49) Unknown 49		22.06	6248800	111104		
50) Unknown 50		22.25	5640180	127783		
51) Unknown 51		22.87	14694800	225363		
52) Unknown 52		28.10	6723280	84554		
53) Unknown 53		29.32	1643520	22132		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_07.D\ECD1A.CH
Acq On : 6-7-01 1:14:44 PM
Sample : 8151 LOW T708
Misc :
IntFile : events.e

Vial: 7
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

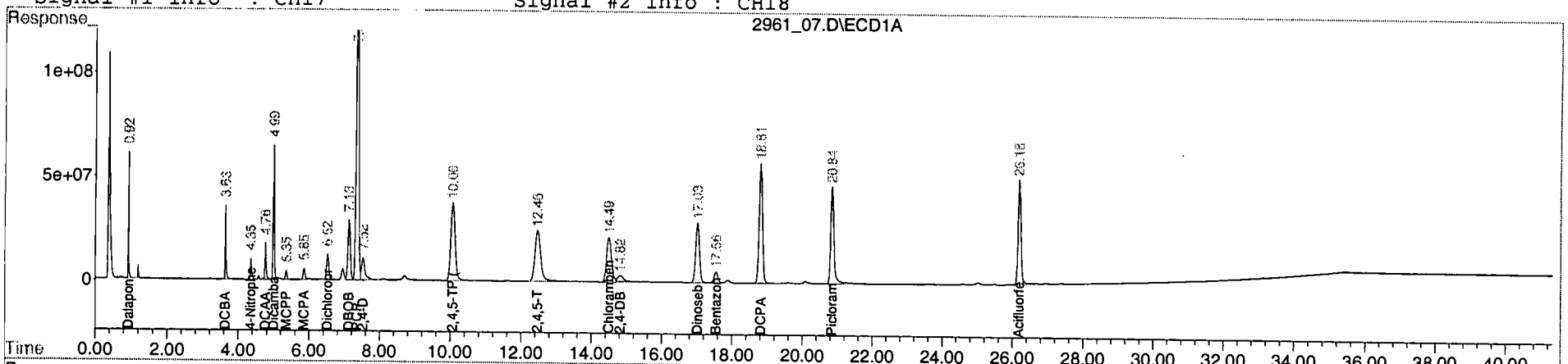
Data File : C:\HPCHEM\2\DATA\2961\2961_07.D\ECD2B.CH
Acq On : 6-7-01 2:01:43 PM
Sample : 8151 LOW T708
Misc :
IntFile : events2.e

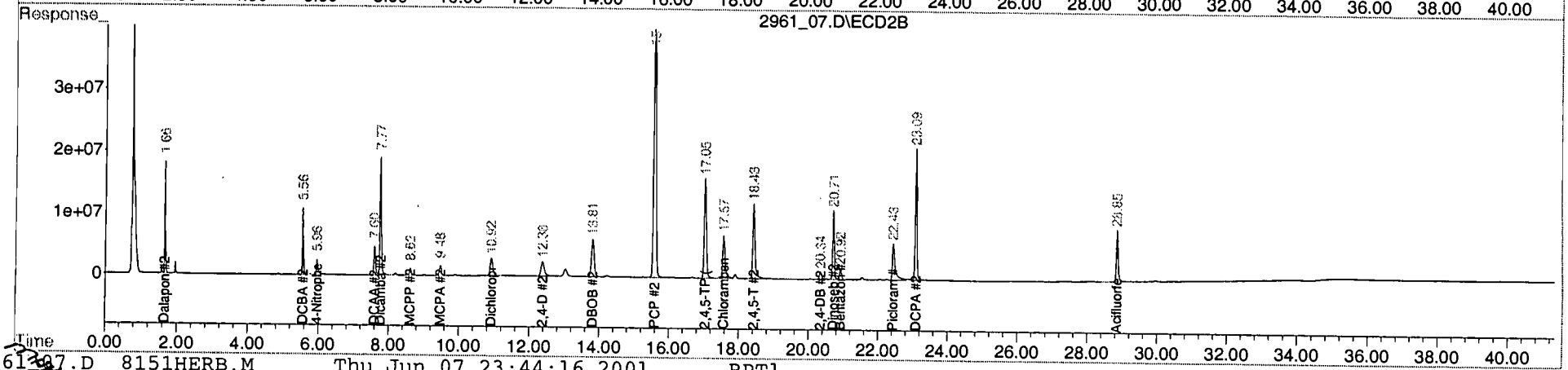
Vial: 7
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:33 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:22:04 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD1A.CH Vial: 8
Acq On : 6-7-01 2:01:43 PM Operator: HP Demo
Sample : HERB PCS T502 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD2B.CH Vial: 8
Acq On : 6-7-01 2:49:00 PM Operator: HP Demo
Sample : HERB PCS T502 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:45 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.77	7.60	446.2E6	143.9E6	101.010	100.665
Spiked Amount 100.000			Recovery	=	101.01%	100.67%
11) S DBOB	7.13	13.81	1046.2E6	252.2E6	17.421	17.563
Spiked Amount 20.000			Recovery	=	87.11%	87.81%
Target Compounds						
1) T Dalapon	0.88	0.00	2532612	0	0.402	N.D. #
2) T DCBA	3.63	5.56	2777.6E6	1092.8E6	539.410	556.438
3) T 4-Nitrophenol	4.35	5.95	3575.6E6	1047.5E6	1520.542	1559.412
5) T Dicamba	5.01	0.00	11300018	0	0.778	N.D. #
6) T MCPP	0.00	0.00	0	0	N.D.	N.D.
7) T MCPA	0.00	0.00	0	0	N.D.	N.D.
8) T Dichloroprop	0.00	0.00	0	0	N.D.	N.D.
9) T 2,4-D	7.54	0.00	105730	0	0.018	N.D. #
10) T PCP	7.34	0.00	14606249	0	0.217	N.D. #
12) T 2,4,5-TP (Silvex	0.00	0.00	0	0	N.D.	N.D.
13) T Chloramben	0.00	17.58	0	5575537	N.D.	1.424 #
14) T 2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
15) T 2,4-DB	0.00	0.00	0	0	N.D.	N.D.
16) T Picloram	0.00	0.00	0	0	N.D.	N.D.
17) T Bentazon	0.00	0.00	0	0	N.D.	N.D.
18) T Dinoseb	17.03	20.71	103.4E6	19141003	5.279	4.926
19) T DCPA	18.81	0.00	8697795	0	0.261	N.D. #
20) T Acifluorfen	26.20	0.00	42618207	0	1.583	N.D. #

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	3.90	3781700	186677
2) Unknown 2	3.95	5407110	230911
3) Unknown 3	4.00	6645230	270123
4) Unknown 4	4.08	5412730	198874
5) Unknown 5	4.13	4285580	168693
6) Unknown 6	4.69	7613270	254448
7) Unknown 7	8.07	1420960	9802
8) Unknown 8	8.17	379387	7282
9) Unknown 9	10.11	1478070	23912
10) Unknown 10	10.54	4395350	23789
11) Unknown 11	10.61	597010	10676
12) Unknown 12	15.15	43098200	132116
13) Unknown 13	17.61	5770850	30572
14) Unknown 14	19.60	3393050	32516
15) Unknown 15	22.23	43884400	110797
16) Unknown 16	23.55	64124400	127414
17) Unknown 17	25.02	223003000	605569
18) Unknown 18	26.88	47499300	204487

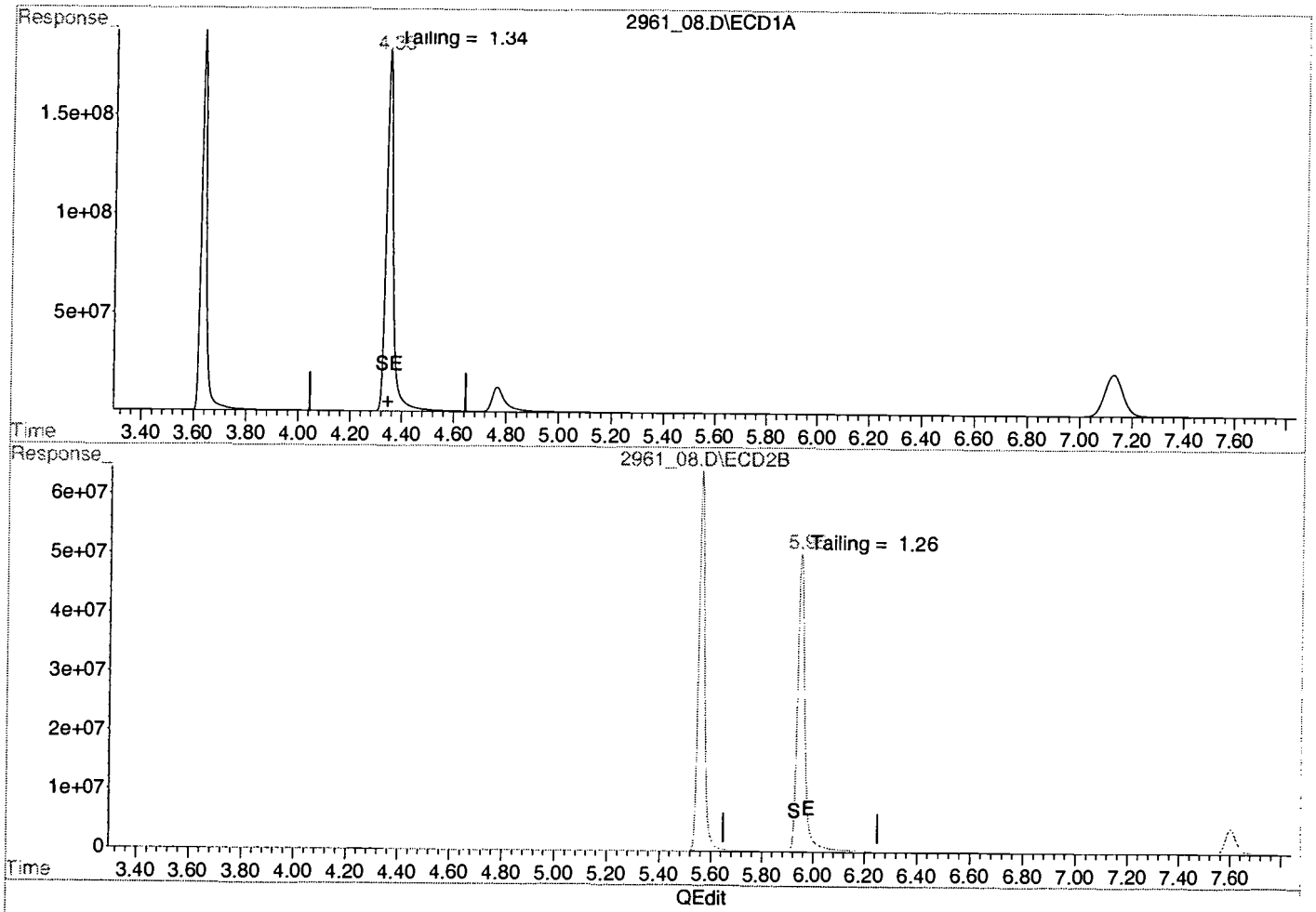
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD1A.CH Vial: 8
Acq On : 6-7-01 2:01:43 PM Operator: HP Demo
Sample : HERB PCS T502 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD2B.CH Vial: 8
Acq On : 6-7-01 2:49:00 PM Operator: HP Demo
Sample : HERB PCS T502 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 8 0:01 2001 Quant Results File: 8151_PCS.RES

Method : C:\HPCHEM\2\METHODS\8151_PCS.M (Chemstation Integrator)
Title : SOC HERBICIDES
Last Update : Fri Jun 08 00:01:05 2001
Response via : Multiple Level Calibration



(2) 4-NITROPHENOL

4.35min 1600.000ug/L

response 3586232260

(2) 4-NITROPHENOL #2

5.95min 1600.000ug/L

response 1067317449

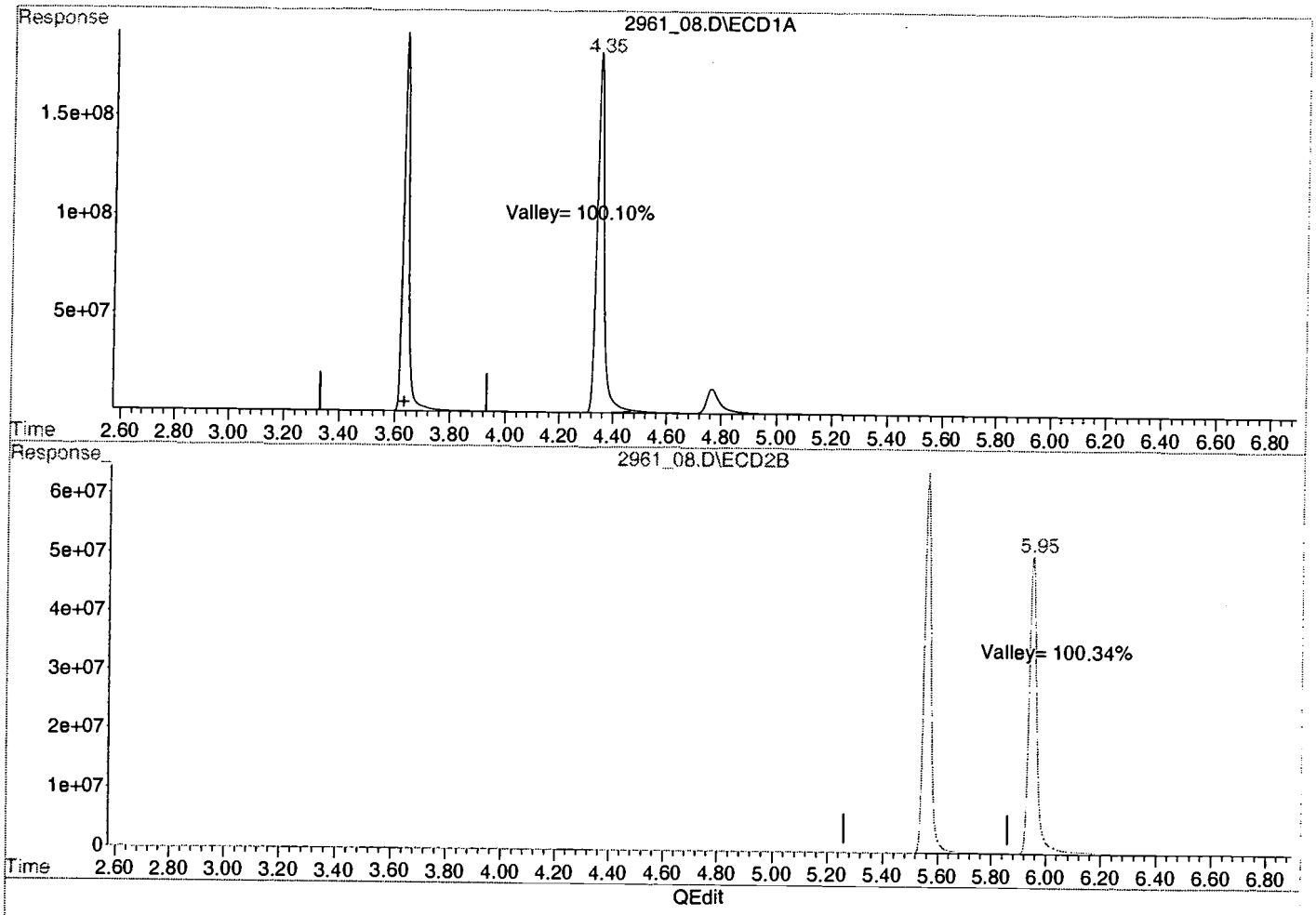
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD1A.CH Vial: 8
Acq On : 6-7-01 2:01:43 PM Operator: HP Demo
Sample : HERB PCS T502 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD2B.CH Vial: 8
Acq On : 6-7-01 2:49:00 PM Operator: HP Demo
Sample : HERB PCS T502 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 8 0:01 2001 Quant Results File: 8151_PCS.RES

Method : C:\HPCHEM\2\METHODS\8151_PCS.M (Chemstation Integrator)
Title : SOC HERBICIDES
Last Update : Fri Jun 08 00:01:05 2001
Response via : Multiple Level Calibration



(1) 3,5-DCBA

3.63min 600.000ug/L

response 2793618091

(1) 3,5-DCBA #2

5.56min 600.000ug/L

response 1095754879

(+) = Expected Retention Time

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD1A.CH
Acq On : 6-7-01 2:01:43 PM
Sample : HERB PCS T502
Misc :
IntFile : events.e

Vial: 8
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

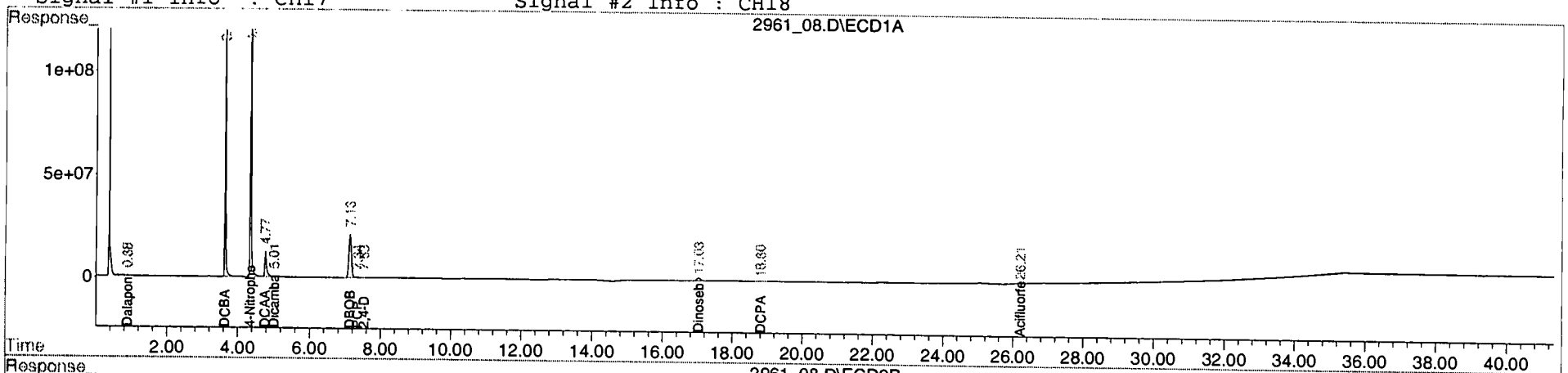
Data File : C:\HPCHEM\2\DATA\2961\2961_08.D\ECD2B.CH
Acq On : 6-7-01 2:49:00 PM
Sample : HERB PCS T502
Misc :
IntFile : events2.e

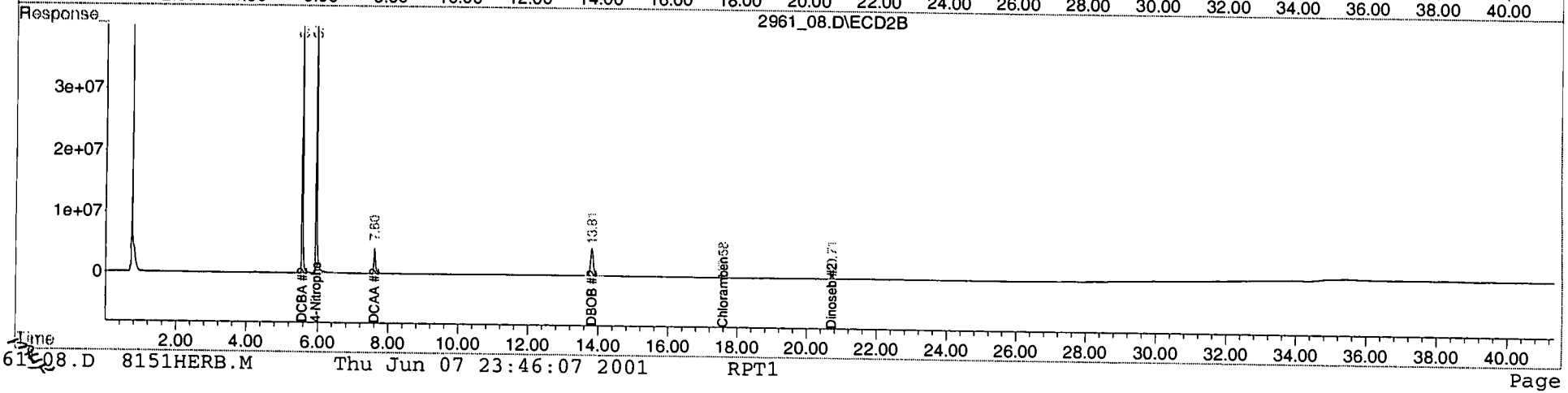
Vial: 8
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:45 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_09.D\ECD1A.CH Vial: 9
Acq On : 6-7-01 2:49:00 PM Operator: HP Demo
Sample : RCS H1167 Inst : Instr 324
Misc : ICV01 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_09.D\ECD2B.CH Vial: 9
Acq On : 6-7-01 3:36:08 PM Operator: HP Demo
Sample : RCS H1167 Inst : Instr 324
Misc : ICV01 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.77	7.60	320.4E6	98480959	72.530	68.890
Spiked Amount 100.000			Recovery	=	72.53%	68.89%
11) S DBOB	7.13	13.81	1030.8E6	253.9E6	17.164	17.680
Spiked Amount 20.000			Recovery	=	85.82%	88.40%
Target Compounds						
1) T Dalapon	0.93	1.66	1668.6E6	619.7E6	265.126	269.546
2) T DCBA	0.00	0.00	0	0	N.D.	N.D.
3) T 4-Nitrophenol	0.00	0.00	0	0	N.D.	N.D.
4) T Dicamba	5.00	7.77	891.0E6	286.8E6	61.325	54.063
5) T MCPP	0.00	0.00	0	0	N.D.	N.D.
7) T MCPA	5.84	0.00	1926643	0	0.112	N.D. #
8) T Dichloroprop	6.53	0.00	2907260	0	0.600	N.D. #
9) T 2,4-D	7.52	12.37	1352.8E6	348.5E6	230.149	220.886
10) T PCP	7.36	15.59	802.4E6	203.8E6	11.945	10.561
12) T 2,4,5-TP (Silvex	10.07	17.05	1600.8E6	359.1E6	55.900	51.215
13) T Chloramben	0.00	0.00	0	0	N.D.	N.D.
14) T 2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
15) T 2,4-DB	0.00	0.00	0	0	N.D.	N.D.
16) T Picloram	20.84	22.44	2091.1E6	211.5E6	73.419	51.992 #
17) T Bentazon	17.58	0.00	8850728	0	2.569	N.D. #
18) T Dinoseb	17.02	20.71	3976.2E6	753.7E6	202.995	193.954
19) T DCPA	18.81	0.00	11340896	0	0.340	N.D. #
20) T Acifluorfen	0.00	0.00	0	0	N.D.	N.D.

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.85	2364890	148033
2) Unknown 2	1.20	7073680	622804
3) Unknown 3	1.23	4119140	337314
4) Unknown 4	3.90	217545000	10833700
5) Unknown 5	4.00	11792800	449631
6) Unknown 6	4.09	11778500	307304
7) Unknown 7	4.17	8309600	382049
8) Unknown 8	4.42	3485770	101155
9) Unknown 9	4.57	4148800	186119
10) Unknown 10	4.70	2305650	105765
11) Unknown 11	5.27	3088350	68662
12) Unknown 12	5.44	2233210	66024
13) Unknown 13	6.14	3953940	101221
Unknown 14	10.58	10583500	91230
Unknown 15	11.18	19085300	185460
16) Unknown 16	12.92	31288100	155605
17) Unknown 17	13.97	81136000	257508
18) Unknown 18	15.11	33767300	118899

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_09.D\ECD1A.CH Vial: 9
Acq On : 6-7-01 2:49:00 PM Operator: HP Demo
Sample : RCS H1167 Inst : Instr 324
Misc : ICV01 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_09.D\ECD2B.CH Vial: 9
Acq On : 6-7-01 3:36:08 PM Operator: HP Demo
Sample : RCS H1167 Inst : Instr 324
Misc : ICV01 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		16.04	6271960	64639		
20) Unknown 20		17.88	12340500	183370		
21) Unknown 21		19.59	151918000	1994240		
22) Unknown 22		20.07	151074000	1488520		
23) Unknown 23		20.56	5511120	85037		
24) Unknown 24		21.48	73354100	1097070		
25) Unknown 25		21.76	43867200	360252		
26) Unknown 26		22.12	9246310	106151		
27) Unknown 27		22.24	10181900	109328		
28) Unknown 28		22.52	14746400	209588		
29) Unknown 29		22.75	2796840	51673		
30) Unknown 30		23.54	9223290	118657		
31) Unknown 31		25.02	112537000	343606		
32) Unknown 32		25.18	53238200	271539		
33) Unknown 33		26.02	12879200	245523		
34) Unknown 34		26.64	64504900	154287		
35) Unknown 35		26.79	39271800	391633		
Second Signal						
36) Unknown 36		1.57	36631900	2762850		
37) Unknown 37		1.77	494593	60705		
38) Unknown 38		1.80	3145520	95874		
39) Unknown 39		1.90	1095910	103138		
40) Unknown 40		1.95	2325560	192564		
41) Unknown 41		2.22	983724	55560		
42) Unknown 42		2.34	2810250	123290		
43) Unknown 43		2.42	47806100	1237040		
44) Unknown 44		2.74	1328680	76087		
45) Unknown 45		5.84	33399800	1467670		
46) Unknown 46		18.05	4347330	83229		
47) Unknown 47		20.97	4024180	68408		
48) Unknown 48		21.55	1518840	47834		
49) Unknown 49		21.74	4467920	107835		
50) Unknown 50		22.06	20047000	499847		
51) Unknown 51		22.25	6677450	161510		
52) Unknown 52		22.76	3319760	85731		
53) Unknown 53		22.87	2061860	79691		
54) Unknown 54		23.86	5970270	119832		
55) Unknown 55		25.58	1677090	54901		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_09.D\ECD1A.CH
Acq On : 6-7-01 2:49:00 PM
Sample : RCS H1167
Misc : ICV01
IntFile : events.e

Vial: 9
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_09.D\ECD2B.CH
Acq On : 6-7-01 3:36:08 PM
Sample : RCS H1167
Misc : ICV01
IntFile : events2.e

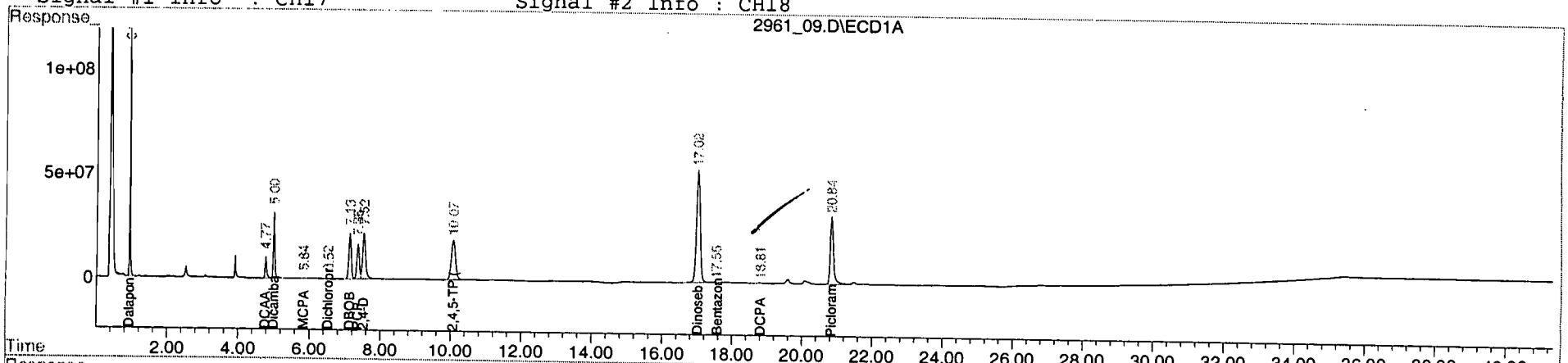
Vial: 9
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

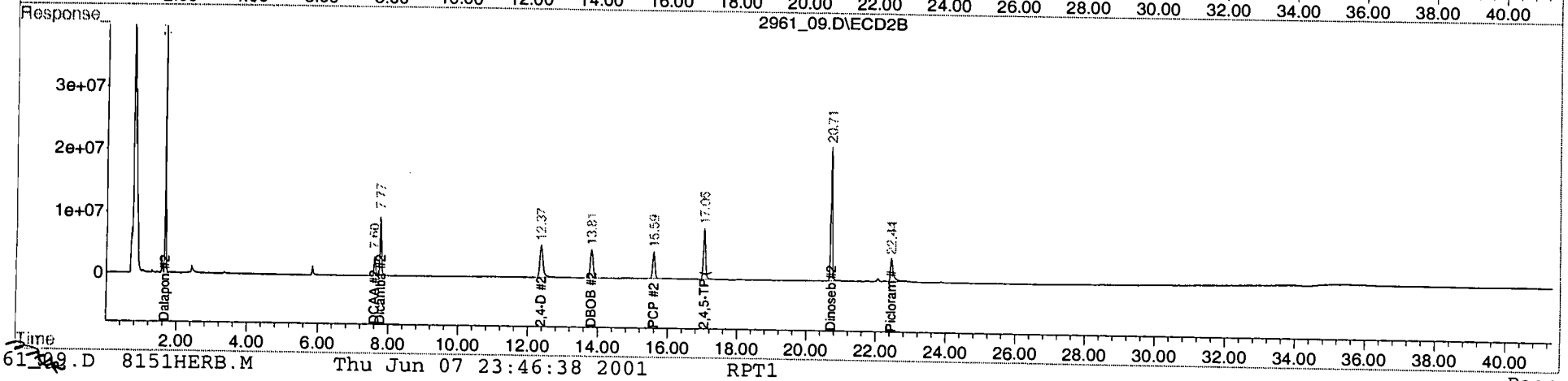
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17

Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD1A.CH Vial: 10
Acq On : 6-7-01 3:36:09 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD2B.CH Vial: 10
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
4) S	DCAA	4.76	7.60	384.3E6	117.0E6	86.988	81.856
	Spiked Amount 100.000			Recovery	=	86.99%	81.86%
11) S	DBOB	7.13	13.82	1015.4E6	258.6E6	16.907	18.014
	Spiked Amount 20.000			Recovery	=	84.54%	90.07%
	Target Compounds						
1) T	Dalapon	0.93	1.66	64526036	45312049	10.253	19.708 #
2) T	DCBA	3.64	0.00	3348827	0	0.650	N.D. #
3) T	4-Nitrophenol	4.38	5.98	15832342	2678459	6.733	3.987 #
5) T	Dicamba	4.97	0.00	13578028	0	0.935	N.D. #
[illegible] T	MCPP	5.36	0.00	11557667	0	1.003	N.D. #
[illegible] T	MCPA	5.83	0.00	125.3E6	0	7.261	N.D. #
8) T	Dichloroprop	0.00	0.00	0	0	N.D.	N.D.
9) T	2,4-D	7.53	0.00	2849437	0	0.485	N.D. #
10) T	PCP	7.32	0.00	17445349	0	0.260	N.D. #
12) T	2,4,5-TP (Silvex	0.00	0.00	0	0	N.D.	N.D.
13) T	Chloramben	0.00	0.00	0	0	N.D.	N.D.
14) T	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
15) T	2,4-DB	0.00	0.00	0	0	N.D.	N.D.
16) T	Picloram	20.85	0.00	71932433	0	2.526	N.D. #
17) T	Bentazon	0.00	0.00	0	0	N.D.	N.D.
18) T	Dinoseb	0.00	0.00	0	0	N.D.	N.D.
19) T	DCPA	18.81	23.11	63220441	2478607	1.897	0.361 #
20) T	Acifluorfen	0.00	0.00	0	0	N.D.	N.D.

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.81	2321690	387922
2) Unknown 2	0.83	2305980	289437
3) Unknown 3	0.85	2977970	335431
4) Unknown 4	0.88	2483300	360029
5) Unknown 5	0.90	13638000	1398860
6) Unknown 6	0.99	4909100	617861
7) Unknown 7	1.04	8066100000	835172000
8) Unknown 8	1.20	24593400	1607090
9) Unknown 9	1.23	3581490	430734
10) Unknown 10	3.69	8573130	625030
11) Unknown 11	3.73	3153180	201666
12) Unknown 12	3.83	1825000	82668
13) Unknown 13	3.90	103761000	5508000
[illegible] Unknown 14	3.95	59705900	3026650
[illegible] Unknown 15	4.00	74728200	2419780
16) Unknown 16	4.08	60084900	1533220
17) Unknown 17	4.17	127892000	6495600
18) Unknown 18	4.24	69735200	2417200

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD1A.CH Vial: 10
Acq On : 6-7-01 3:36:09 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD2B.CH Vial: 10
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		4.42	8078110	323483		
20) Unknown 20		4.63	8576820	229169		
21) Unknown 21		4.69	6682810	278988		
22) Unknown 22		5.03	48494800	1086350		
23) Unknown 23		5.14	22414400	407958		
24) Unknown 24		5.43	566521	33583		
25) Unknown 25		5.51	6405860	154924		
26) Unknown 26		5.66	10952200	266888		
27) Unknown 27		5.74	5906840	201146		
28) Unknown 28		6.07	33839600	704880		
29) Unknown 29		6.26	1902330	61731		
[illegible] Unknown 30		6.37	27367500	689475		
[illegible] Unknown 31		6.86	14209400	311031		
32) Unknown 32		7.71	4678370	72933		
33) Unknown 33		7.97	4891230	84477		
34) Unknown 34		8.34	11368800	177295		
35) Unknown 35		8.90	15899400	208403		
36) Unknown 36		9.14	14171600	161711		
37) Unknown 37		9.94	9205920	92130		
38) Unknown 38		10.27	2100740	42364		
39) Unknown 39		10.31	685857	28077		
40) Unknown 40		10.59	14984800	137706		
41) Unknown 41		10.72	3822800	72743		
42) Unknown 42		11.14	96282500	960892		
43) Unknown 43		11.97	33754100	175713		
44) Unknown 44		12.89	3219980	45898		
45) Unknown 45		13.00	1948520	23418		
46) Unknown 46		13.44	2571550	47037		
47) Unknown 47		13.79	220823000	1143230		
48) Unknown 48		15.04	47761400	219588		
49) Unknown 49		15.88	71029600	691732		
50) Unknown 50		16.11	64678100	514846		
51) Unknown 51		16.80	92618900	835601		
52) Unknown 52		17.09	53807000	476129		
53) Unknown 53		17.67	448053000	4870120		
54) Unknown 54		18.08	51420000	373374		
55) Unknown 55		18.35	64019200	443239		
56) Unknown 56		18.63	40317300	403432		
57) Unknown 57		18.98	83906700	619974		
58) Unknown 58		19.29	76855000	500053		
59) Unknown 59		19.78	152247000	773782		
[illegible] Unknown 60		20.16	68485200	520122		
[illegible] Unknown 61		20.58	143898000	594793		
62) Unknown 62		21.07	62020400	442132		
63) Unknown 63		21.36	26743400	335666		
64) Unknown 64		21.59	120198000	718383		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD1A.CH Vial: 10
Acq On : 6-7-01 3:36:09 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD2B.CH Vial: 10
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
65) Unknown 65		22.04	75845100	540531		
66) Unknown 66		22.31	72424500	512775		
67) Unknown 67		22.56	53299300	368862		
68) Unknown 68		23.04	146844000	805061		
69) Unknown 69		23.31	57782000	657946		
70) Unknown 70		23.53	522337000	6528310		
71) Unknown 71		24.01	27210800	362404		
72) Unknown 72		24.14	31773100	354145		
73) Unknown 73		24.31	27294200	341817		
74) Unknown 74		24.51	56701500	553975		
75) Unknown 75		25.03	95829500	567604		
[illegible] Unknown 76		25.23	64376000	452936		
[illegible] Unknown 77		25.68	2381210	60173		
78) Unknown 78		26.49	68734300	196065		
79) Unknown 79		26.63	33120400	393329		
80) Unknown 80		26.90	20995300	232677		
Second Signal						
81) Unknown 81		1.52	78070	52516		
82) Unknown 82		1.55	1139360	232976		
83) Unknown 83		1.57	23684900	1770400		
84) Unknown 84		1.63	3993460	498355		
85) Unknown 85		1.68	79873500	4864320		
86) Unknown 86		1.77	2392670	232620		
87) Unknown 87		1.78	4190600	274075		
88) Unknown 88		1.83	5469070	302511		
89) Unknown 89		1.85	2893930	383082		
90) Unknown 90		1.87	20324800	2178770		
91) Unknown 91		1.92	2289450	226271		
92) Unknown 92		1.95	7024950	669566		
93) Unknown 93		1.97	5382680	692118		
94) Unknown 94		2.00	1825420	129575		
95) Unknown 95		2.03	2668940	267100		
96) Unknown 96		2.05	3184900	326952		
97) Unknown 97		2.08	3323580	359112		
98) Unknown 98		2.10	10816500	1019050		
99) Unknown 99		2.15	12296700	904594		
100) Unknown100		2.21	3781280	388896		
101) Unknown101		2.23	5770490	413972		
102) Unknown102		2.27	1457350	145557		
103) Unknown103		2.31	1548710	235219		
[illegible] Unknown104		2.33	6547520	515633		
[illegible] Unknown105		2.37	52765100	2814890		
106) Unknown106		2.44	55412600	2310570		
107) Unknown107		2.51	3730380	240146		
108) Unknown108		2.55	8171050	511639		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD1A.CH Vial: 10
Acq On : 6-7-01 3:36:09 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD2B.CH Vial: 10
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		2.59	6296700	703691		
110) Unknown110		2.62	695675	109795		
111) Unknown111		2.64	7051510	660401		
112) Unknown112		2.71	896573	76367		
113) Unknown113		2.74	824086	102545		
114) Unknown114		2.76	4578910	360924		
115) Unknown115		2.83	14708800	941593		
116) Unknown116		2.89	12513200	546644		
117) Unknown117		2.92	3679180	341323		
118) Unknown118		2.95	1590520	159232		
119) Unknown119		2.98	11092500	919240		
[illegible] Unknown120		3.01	14213900	1419910		
[illegible] Unknown121		3.03	5428550	562159		
122) Unknown122		3.06	2431800	296473		
123) Unknown123		3.11	2101460	135620		
124) Unknown124		3.13	1180400	118688		
125) Unknown125		3.16	13646000	1188840		
126) Unknown126		3.21	6463310	446114		
127) Unknown127		3.24	3867110	227384		
128) Unknown128		5.65	2621590	110288		
129) Unknown129		5.84	42855800	1871970		
130) Unknown130		6.06	1821210	105524		
131) Unknown131		6.47	4563960	130916		
132) Unknown132		6.59	2684430	96874		
133) Unknown133		6.72	1521010	56086		
134) Unknown134		6.93	4476460	172701		
135) Unknown135		7.20	1250580	46860		
136) Unknown136		8.12	7988030	257969		
137) Unknown137		8.51	6479140	209656		
138) Unknown138		9.05	11606000	263943		
139) Unknown139		9.78	2017790	45282		
140) Unknown140		10.68	27804400	495294		
141) Unknown141		11.43	3761980	67403		
142) Unknown142		15.26	3134360	65682		
143) Unknown143		16.09	23325400	448333		
144) Unknown144		17.47	33736000	597884		
145) Unknown145		18.32	10726900	201874		
146) Unknown146		18.84	2859400	41135		
147) Unknown147		19.68	4953900	106283		
148) Unknown148		20.54	56536200	1246130		
149) Unknown149		21.55	6721440	123536		
[illegible] Unknown150		22.87	4056380	114035		
[illegible] Unknown151		24.18	4749360	67864		
152) Unknown152		24.92	3108670	92614		
153) Unknown153		26.02	15668700	244827		
154) Unknown154		26.20	62791900	1179290		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD1A.CH Vial: 10
Acq On : 6-7-01 3:36:09 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD2B.CH Vial: 10
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : BLA 769 H1167 Inst : Instr 324
Misc : BLA02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
155) Unknown155		26.40		7905300	178057	
156) Unknown156		26.48		7068750	166684	
157) Unknown157		26.59		3858720	82603	
158) Unknown158		28.50		2641460	58922	
159) Unknown159		28.74		2031990	61155	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD1A.CH
Acq On : 6-7-01 3:36:09 PM
Sample : BLA 769 H1167
Misc : BLA02
IntFile : events.e

Vial: 10
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

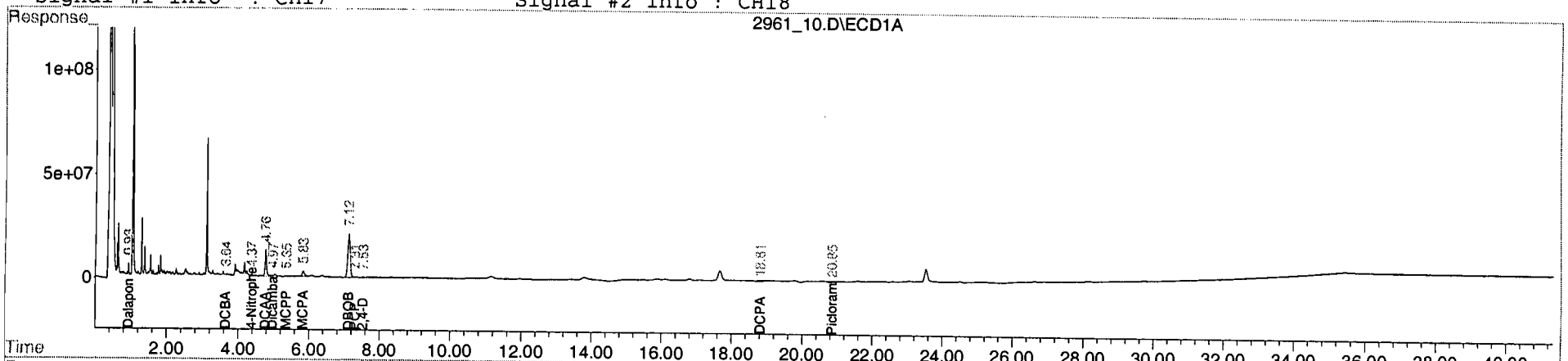
Data File : C:\HPCHEM\2\DATA\2961\2961_10.D\ECD2B.CH
Acq On : 6-7-01 4:23:31 PM
Sample : BLA 769 H1167
Misc : BLA02
IntFile : events2.e

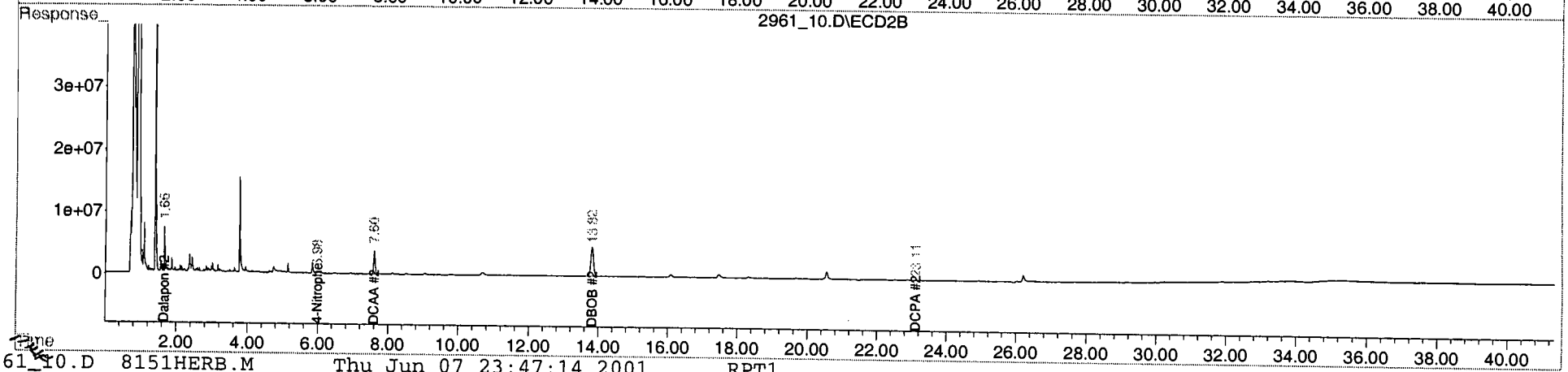
Vial: 10
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:46 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD1A.CH Vial: 11
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD2B.CH Vial: 11
Acq On : 6-7-01 5:10:39 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:47 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.77	7.60	390.8E6	115.4E6	88.463	80.695
Spiked Amount 100.000			Recovery =		88.46%	80.69%
11) S DBOB	7.13	13.81	1004.0E6	256.1E6	16.718	17.836
Spiked Amount 20.000			Recovery =		83.59%	89.18%
Target Compounds						
1) T Dalapon	0.93	1.66	899.6E6	388.1E6	142.943	168.786
2) T DCBA	3.65	0.00	380.1E6	0	73.806	N.D. #
3) T 4-Nitrophenol	4.38	5.98	2878247	1894050	1.224	2.820 #
5) T Dicamba	5.00	7.78	831.3E6	265.5E6	57.220	50.047
[illegible] T MCPP	5.35	0.00	12413222	0	1.077	N.D. #
[illegible] T MCPA	5.86	0.00	19189964	0	1.112	N.D. #
8) T Dichloroprop	6.52	0.00	5253999	0	1.085	N.D. #
9) T 2,4-D	7.52	12.37	1265.2E6	344.7E6	215.242	218.433
10) T PCP	7.35	15.59	523.1E6	137.5E6	7.786	7.130
12) T 2,4,5-TP (Silvex	10.06	17.05	1462.3E6	341.7E6	51.066	48.736
13) T Chloramben	0.00	0.00	0	0	N.D.	N.D.
14) T 2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
15) T 2,4-DB	0.00	0.00	0	0	N.D.	N.D.
16) T Picloram	20.84	22.44	2838.1E6	342.9E6	99.647	84.272
17) T Bentazon	0.00	0.00	0	0	N.D.	N.D.
18) T Dinoseb	17.02	20.71	3055.2E6	624.8E6	155.977	160.798
19) T DCPA	18.81	23.11	32439035	3454472	0.974	0.504 #
20) T Acifluorfen	26.22	0.00	17851864	0	0.663	N.D. #

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.90	9397260	1321270
2) Unknown 2	0.99	12119500	1326070
3) Unknown 3	1.04	7726150000	759532000
4) Unknown 4	1.19	27687200	2016070
5) Unknown 5	1.23	2132820	263909
6) Unknown 6	3.75	14043100	773567
7) Unknown 7	3.84	4501270	260007
8) Unknown 8	3.90	99265800	5020040
9) Unknown 9	4.00	38977100	1334120
10) Unknown 10	4.08	15785500	922614
11) Unknown 11	4.12	26157600	1258860
12) Unknown 12	4.17	37422600	1747430
13) Unknown 13	4.24	6803810	283663
[illegible] Unknown 14	4.41	3157040	119573
[illegible] Unknown 15	4.51	3134470	128673
16) Unknown 16	4.57	15023000	401375
17) Unknown 17	4.69	6129790	219443
18) Unknown 18	5.07	74499400	1671290

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD1A.CH Vial: 11
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD2B.CH Vial: 11
Acq On : 6-7-01 5:10:39 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:47 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		5.38	1262910	214302		
20) Unknown 20		5.42	10687500	250682		
21) Unknown 21		5.51	11931300	322879		
22) Unknown 22		5.56	8046520	274575		
23) Unknown 23		5.65	20814000	445574		
24) Unknown 24		5.74	13685700	315248		
25) Unknown 25		5.94	10310500	249460		
26) Unknown 26		6.07	46205100	720675		
27) Unknown 27		6.37	33091000	702112		
28) Unknown 28		6.86	90313000	1998700		
29) Unknown 29		8.32	2477140	81209		
30) Unknown 30		8.54	3238950	49541		
31) Unknown 31		8.90	13724000	188697		
32) Unknown 32		9.14	10819600	154408		
33) Unknown 33		10.57	7277210	89002		
34) Unknown 34		10.62	2676730	82642		
35) Unknown 35		11.14	88288500	956156		
36) Unknown 36		11.80	30527600	221980		
37) Unknown 37		13.43	37816000	46432		
38) Unknown 38		13.78	254459000	1443840		
39) Unknown 39		15.05	93159600	406235		
40) Unknown 40		15.50	15576200	82659		
41) Unknown 41		15.88	63296500	675231		
42) Unknown 42		16.01	16009100	260761		
43) Unknown 43		16.60	4736900	68744		
44) Unknown 44		16.79	64872600	958181		
45) Unknown 45		17.66	373991000	5196170		
46) Unknown 46		18.31	16349300	189262		
47) Unknown 47		18.98	43120600	343555		
48) Unknown 48		19.29	14417800	278347		
49) Unknown 49		19.32	13880100	283534		
50) Unknown 50		19.59	102972000	762241		
51) Unknown 51		19.80	32539400	430976		
52) Unknown 52		20.07	208076000	2184710		
53) Unknown 53		20.55	43574100	309785		
54) Unknown 54		21.36	11604300	350550		
55) Unknown 55		21.49	23116800	430471		
56) Unknown 56		21.58	71718300	637236		
57) Unknown 57		21.91	17245500	211643		
58) Unknown 58		22.06	26263600	277538		
59) Unknown 59		22.21	13461600	243874		
60) Unknown 60		22.31	15420100	263101		
61) Unknown 61		22.56	5815260	67563		
62) Unknown 62		22.76	10535700	217349		
63) Unknown 63		22.92	5825170	115809		
64) Unknown 64		23.05	29780200	388037		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD1A.CH Vial: 11
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD2B.CH Vial: 11
Acq On : 6-7-01 5:10:39 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:47 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
65) Unknown 65		23.30	13699800	238748		
66) Unknown 66		23.53	42946100	799843		
67) Unknown 67		23.68	2413780	57439		
68) Unknown 68		23.99	3478870	82049		
69) Unknown 69		24.52	23085100	339212		
70) Unknown 70		24.82	12712600	132806		
71) Unknown 71		25.03	43081200	420052		
72) Unknown 72		25.22	51219300	358297		
73) Unknown 73		25.69	2105120	49533		
74) Unknown 74		26.30	3163550	63794		
75) Unknown 75		26.34	1182170	41119		
76) Unknown 76		26.50	1672190	45059		
77) Unknown 77		26.62	17148000	257762		
78) Unknown 78		26.90	10128700	145849		
Second Signal						
79) Unknown 79		1.52	739303	104025		
80) Unknown 80		1.55	591475	131634		
81) Unknown 81		1.57	50214400	3634950		
82) Unknown 82		1.74	33240300	2195490		
83) Unknown 83		1.82	3989160	288231		
84) Unknown 84		1.85	1100800	162475		
85) Unknown 85		1.87	9359090	1202180		
86) Unknown 86		1.90	1835370	196011		
87) Unknown 87		1.96	3693080	411059		
88) Unknown 88		1.97	15197300	1248220		
89) Unknown 89		2.04	6928840	469943		
90) Unknown 90		2.08	1218770	142085		
91) Unknown 91		2.10	2238600	228087		
92) Unknown 92		2.15	18958100	1483560		
93) Unknown 93		2.19	39181500	2928550		
94) Unknown 94		2.22	17335700	1053910		
95) Unknown 95		2.27	1964750	183757		
96) Unknown 96		2.32	74684900	4808670		
97) Unknown 97		2.36	11086200	857467		
98) Unknown 98		2.41	22909000	2307480		
99) Unknown 99		2.43	48529300	2890400		
100) Unknown100		2.51	2084790	161375		
101) Unknown101		2.56	2641550	204807		
102) Unknown102		2.59	1593560	184237		
103) Unknown103		2.64	10390500	818290		
104) Unknown104		2.74	1387930	142604		
105) Unknown105		2.77	2322340	189160		
106) Unknown106		2.82	75156300	3851660		
107) Unknown107		2.89	20869200	965228		
108) Unknown108		2.92	6169730	496551		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD1A.CH Vial: 11
Acq On : 6-7-01 4:23:31 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD2B.CH Vial: 11
Acq On : 6-7-01 5:10:39 PM Operator: HP Demo
Sample : LCS 165 H1167 Inst : Instr 324
Misc : LCS Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:47 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		3.01	2476010	134847		
110) Unknown110		3.07	2799380	173463		
111) Unknown111		3.13	1264060	122857		
112) Unknown112		3.16	4375590	462079		
113) Unknown113		3.21	1671010	234800		
114) Unknown114		3.23	1103560	128550		
115) Unknown115		3.27	2785750	166428		
116) Unknown116		5.72	1083240	53377		
117) Unknown117		5.83	32069000	1455740		
118) Unknown118		6.06	3532740	165267		
119) Unknown119		6.46	5278100	139224		
[illegible]) Unknown120		6.72	3405340	140712		
[illegible]) Unknown121		6.93	8416650	346781		
122) Unknown122		8.20	5533680	79142		
123) Unknown123		8.43	7078860	262105		
124) Unknown124		8.49	15435400	301007		
125) Unknown125		9.05	9233600	214717		
126) Unknown126		11.43	3285900	62090		
127) Unknown127		15.26	5053410	73586		
128) Unknown128		16.08	25086100	463452		
129) Unknown129		17.47	36332300	651151		
130) Unknown130		18.04	5275260	102225		
131) Unknown131		18.32	8377080	208827		
132) Unknown132		18.83	2666410	35750		
133) Unknown133		19.52	3017100	25690		
134) Unknown134		19.68	7484570	152926		
135) Unknown135		20.54	60845500	1479550		
136) Unknown136		21.55	5489450	99693		
137) Unknown137		22.06	3873440	59700		
138) Unknown138		22.24	10750800	267105		
139) Unknown139		22.87	12349000	191505		
140) Unknown140		26.03	6682980	137621		
141) Unknown141		26.21	5547210	103198		
142) Unknown142		26.41	2286500	61271		
143) Unknown143		26.49	3392110	95561		
144) Unknown144		26.59	2236290	57759		
145) Unknown145		28.51	2156640	43003		
146) Unknown146		28.74	1540410	45472		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD1A.CH
Acq On : 6-7-01 4:23:31 PM
Sample : LCS 165 H1167
Misc : LCS
IntFile : events.e

Vial: 11
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

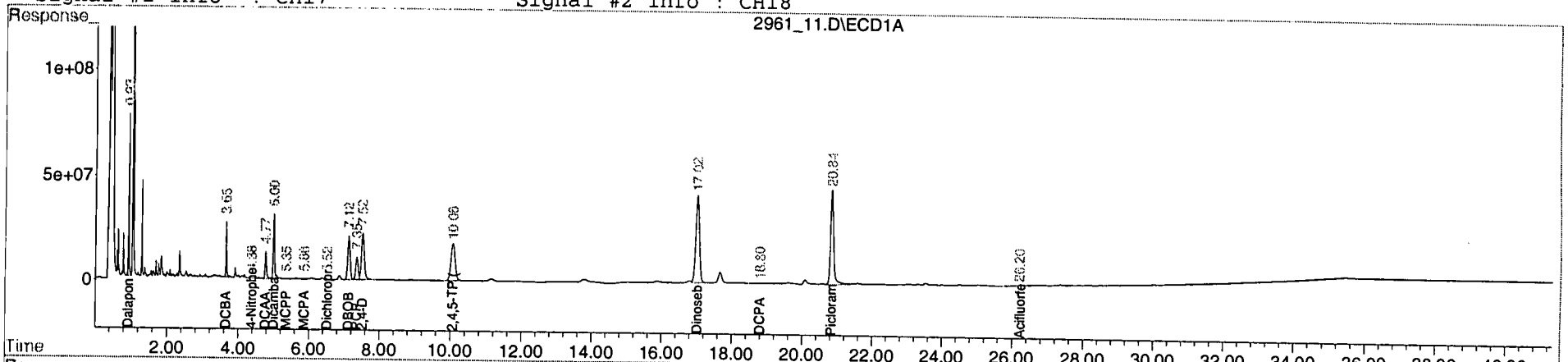
Data File : C:\HPCHEM\2\DATA\2961\2961_11.D\ECD2B.CH
Acq On : 6-7-01 5:10:39 PM
Sample : LCS 165 H1167
Misc : LCS
IntFile : events2.e

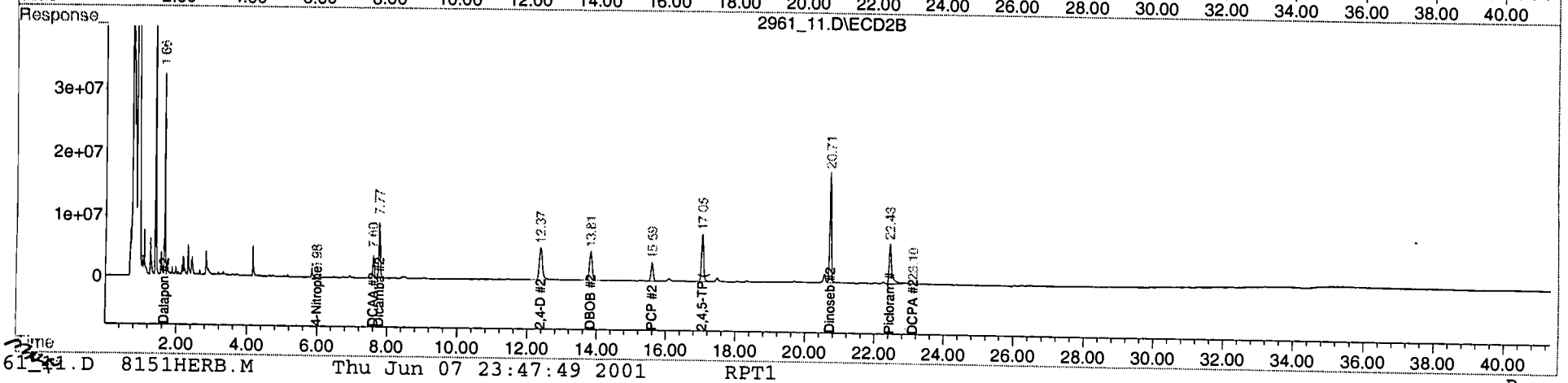
Vial: 11
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:47 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD1A.CH
Acq On : 6-7-01 5:10:39 PM
Sample : A555552 H1167 spike
Misc :
IntFile : events.e

Vial: 12
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD2B.CH
Acq On : 6-7-01 5:57:48 PM
Sample : A555552 H1167
Misc :
IntFile : events2.e

Vial: 12
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

spike

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.77	7.60	418.1E6	129.0E6	94.655	90.225
Spiked Amount 100.000			Recovery	=	94.66%	90.22%
11) S DBOB	7.13	13.82	990.6E6	250.2E6	16.495	17.426
Spiked Amount 20.000			Recovery	=	82.48%	87.13%
Target Compounds						
1) T Dalapon	0.93	1.66	71302760	74836658	11.329 BDL	32.549 #
2) T DCBA	3.65	0.00	156.6E6	0	30.419	N.D. #
3) T 4-Nitrophenol	4.37	5.97	2293644	2892650	0.975	4.306 #
5) T Dicamba	5.01	0.00	16728574	0	1.151	N.D. #
6) T MCPP	5.33	0.00	3789468	0	0.329	N.D. #
7) T MCPA	5.86	0.00	22175281	0	1.285	N.D. #
8) T Dichloroprop	6.50	0.00	454481	0	0.094	N.D. #
9) T 2,4-D	0.00	0.00	0	0	N.D.	N.D.
10) T PCP	7.33	0.00	17873070	0	0.266	N.D. #
12) T 2,4,5-TP (Silvex	0.00	0.00	0	0	N.D.	N.D.
13) T Chloramben	0.00	0.00	0	0	N.D.	N.D.
14) T 2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
15) T 2,4-DB	0.00	0.00	0	0	N.D.	N.D.
16) T Picloram	20.85	0.00	49933214	0	1.753	N.D. #
17) T Bentazon	0.00	0.00	0	0	N.D.	N.D.
18) T Dinoseb	0.00	0.00	0	0	N.D.	N.D.
19) T DCPA	18.80	23.10	19786931	3847903	0.594	0.561
20) T Acifluorfen	26.19	0.00	56720629	0	2.107	N.D. #

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.88	5344690	785016
2) Unknown 2	0.90	21087700	2275980
3) Unknown 3	0.99	4784150	614511
4) Unknown 4	1.04	9078600000	924436000
5) Unknown 5	1.19	41462800	3194390
6) Unknown 6	1.23	2287410	276489
7) Unknown 7	3.75	11889300	439863
8) Unknown 8	3.84	4373940	154559
9) Unknown 9	3.90	76490700	3546960
10) Unknown 10	4.00	37771200	1357940
11) Unknown 11	4.08	33849000	899221
12) Unknown 12	4.16	16809100	652390
13) Unknown 13	4.24	7208060	249887
14) Unknown 14	4.45	2870140	83166
15) Unknown 15	4.51	5648600	213651
16) Unknown 16	4.59	4633500	180250
17) Unknown 17	4.69	7343000	285286
18) Unknown 18	4.86	26539600	568848

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD1A.CH Vial: 12
Acq On : 6-7-01 5:10:39 PM Operator: HP Demo
Sample : A555552 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD2B.CH Vial: 12
Acq On : 6-7-01 5:57:48 PM Operator: HP Demo
Sample : A555552 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		5.08	10223400	322681		
20) Unknown 20		5.18	28200500	563108		
21) Unknown 21		5.32	6127370	199032		
22) Unknown 22		5.41	12174600	228190		
23) Unknown 23		5.52	8556670	291825		
24) Unknown 24		5.57	12755300	359227		
25) Unknown 25		5.65	30711600	646023		
26) Unknown 26		5.74	11047400	293370		
27) Unknown 27		5.93	8090520	242081		
28) Unknown 28		6.07	40991800	677247		
29) Unknown 29		6.36	24977600	605269		
[illegible] Unknown 30		6.86	119355000	2597270		
[illegible] Unknown 31		7.58	14923200	210409		
32) Unknown 32		7.71	8518010	146024		
33) Unknown 33		8.03	4547300	53753		
34) Unknown 34		8.33	9105510	150580		
35) Unknown 35		8.57	5597580	66892		
36) Unknown 36		8.72	6217400	91670		
37) Unknown 37		8.89	17005400	222350		
38) Unknown 38		9.12	9597350	122980		
39) Unknown 39		9.93	5411400	61457		
40) Unknown 40		10.29	5788210	76727		
41) Unknown 41		10.56	20774700	215366		
42) Unknown 42		10.60	25381400	212863		
43) Unknown 43		11.14	101306000	997886		
44) Unknown 44		11.49	38113900	293481		
45) Unknown 45		12.99	22304400	101698		
46) Unknown 46		13.43	4342990	59151		
47) Unknown 47		13.95	100535000	348419		
48) Unknown 48		15.04	104574000	480103		
49) Unknown 49		15.33	4680290	65884		
50) Unknown 50		15.87	61020400	637125		
51) Unknown 51		16.00	20060900	311870		
52) Unknown 52		16.20	8780910	130639		
53) Unknown 53		16.59	6821350	85901		
54) Unknown 54		16.84	22230600	289952		
55) Unknown 55		17.08	18004700	251174		
56) Unknown 56		17.28	27481300	373760		
57) Unknown 57		17.68	25232900	275558		
58) Unknown 58		17.87	5234710	82820		
59) Unknown 59		18.33	7093680	79207		
[illegible] Unknown 60		18.97	15309200	223915		
[illegible] Unknown 61		19.23	19597600	191925		
62) Unknown 62		19.77	147402000	2056310		
63) Unknown 63		20.27	81861500	458597		
64) Unknown 64		20.39	18299000	347540		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD1A.CH Vial: 12
Acq On : 6-7-01 5:10:39 PM Operator: HP Demo
Sample : A555552 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD2B.CH Vial: 12
Acq On : 6-7-01 5:57:48 PM Operator: HP Demo
Sample : A555552 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
65) Unknown 65		20.58	111900000	1201550		
66) Unknown 66		21.04	19778000	307423		
67) Unknown 67		21.10	19013500	302271		
68) Unknown 68		21.32	36103700	335732		
69) Unknown 69		21.61	71089900	619499		
70) Unknown 70		21.87	481460000	7894650		
71) Unknown 71		22.26	97844800	698339		
72) Unknown 72		22.65	34266700	302752		
73) Unknown 73		22.80	82801800	1228610		
74) Unknown 74		22.90	46786300	870313		
75) Unknown 75		23.04	84610300	886510		
[illegible] Unknown 76		23.32	75554400	708134		
[illegible]) Unknown 77		23.55	150317000	1829260		
78) Unknown 78		23.76	47888100	447788		
79) Unknown 79		23.97	27340600	347266		
80) Unknown 80		24.50	153510000	849831		
81) Unknown 81		24.85	39870100	307224		
82) Unknown 82		25.00	88851600	910662		
83) Unknown 83		25.24	82846700	580058		
84) Unknown 84		25.58	26857000	365500		
85) Unknown 85		25.90	18973700	250368		
86) Unknown 86		26.39	9058490	150369		
87) Unknown 87		26.62	32726800	332856		
88) Unknown 88		26.90	4226620	91832		
Second Signal						
89) Unknown 89		1.52	905260	123955		
90) Unknown 90		1.55	906807	197435		
91) Unknown 91		1.57	29396900	2277950		
92) Unknown 92		1.63	5039520	327505		
93) Unknown 93		1.68	67535700	4925670		
94) Unknown 94		1.74	28364200	1872580		
95) Unknown 95		1.82	7740820	626298		
96) Unknown 96		1.87	15399400	1821390		
97) Unknown 97		1.90	3963130	314560		
98) Unknown 98		1.95	3469230	341164		
99) Unknown 99		1.98	14876800	1215620		
100) Unknown100		2.04	10932600	845278		
101) Unknown101		2.08	2459300	285055		
102) Unknown102		2.10	7250030	656308		
103) Unknown103		2.15	15271600	1169540		
[illegible] Unknown104		2.19	23868400	1756650		
[illegible] Unknown105		2.23	4870210	286285		
106) Unknown106		2.27	1243170	137898		
107) Unknown107		2.32	40044700	2654180		
108) Unknown108		2.36	25367700	1728210		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD1A.CH Vial: 12
Acq On : 6-7-01 5:10:39 PM Operator: HP Demo
Sample : A555552 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD2B.CH Vial: 12
Acq On : 6-7-01 5:57:48 PM Operator: HP Demo
Sample : A555552 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		2.41	10814000	1142280		
110) Unknown110		2.44	67045700	3522960		
111) Unknown111		2.51	2544430	203243		
112) Unknown112		2.55	3386850	314223		
113) Unknown113		2.57	3968300	321085		
114) Unknown114		2.59	5820500	690939		
115) Unknown115		2.64	13045300	1101040		
116) Unknown116		2.71	664272	59041		
117) Unknown117		2.74	1640290	169246		
118) Unknown118		2.77	2445880	200813		
119) Unknown119		2.83	38001600	1864690		
120) Unknown120		2.89	21311600	875587		
121) Unknown121		2.92	6070390	532508		
122) Unknown122		3.02	2411380	111468		
123) Unknown123		3.06	1887260	199092		
124) Unknown124		3.12	684877	88732		
125) Unknown125		3.13	1419400	133647		
126) Unknown126		3.16	3479010	296789		
127) Unknown127		3.21	3071480	358332		
128) Unknown128		3.23	2535770	217309		
129) Unknown129		3.26	2221410	226341		
130) Unknown130		5.72	1139100	58163		
131) Unknown131		5.83	39995100	1773980		
132) Unknown132		6.06	3219110	140213		
133) Unknown133		6.41	1191060	52598		
134) Unknown134		6.47	6759520	177670		
135) Unknown135		6.93	9910000	413525		
136) Unknown136		8.43	11651900	351434		
137) Unknown137		8.51	7185580	202946		
138) Unknown138		9.05	9679410	227905		
139) Unknown139		9.78	3358990	79584		
140) Unknown140		10.75	3559200	52030		
141) Unknown141		11.43	3582820	68911		
142) Unknown142		12.20	2844710	46937		
143) Unknown143		15.26	2597070	53145		
144) Unknown144		16.09	25146200	457887		
145) Unknown145		17.28	4663270	56421		
146) Unknown146		17.49	3666460	53686		
147) Unknown147		18.32	9832720	209548		
148) Unknown148		19.63	5548170	119531		
149) Unknown149		19.88	1715800	43932		
150) Unknown150		20.53	7208840	143796		
151) Unknown151		21.43	5572720	139704		
152) Unknown152		21.55	3630150	82982		
153) Unknown153		22.87	4115320	93137		
154) Unknown154		24.08	4742950	105468		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD1A.CH
Acq On : 6-7-01 5:10:39 PM
Sample : A555552 H1167
Misc :
IntFile : events.e

Vial: 12
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD2B.CH
Acq On : 6-7-01 5:57:48 PM
Sample : A555552 H1167
Misc :
IntFile : events2.e

Vial: 12
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
155) Unknown155		24.18	17038000	484740		
156) Unknown156		24.93	12945900	264592		
157) Unknown157		25.28	2656240	61135		
158) Unknown158		25.87	12819400	155289		
159) Unknown159		26.02	13152700	195483		
160) Unknown160		26.21	10382800	156802		
161) Unknown161		26.39	70261000	2153620		
162) Unknown162		26.49	3997800	109016		
163) Unknown163		26.59	2744250	58631		
164) Unknown164		26.83	6212730	211084		
165) Unknown165		27.51	4718440	136236		
166) Unknown166		28.11	4575070	103950		
167) Unknown167		29.02	3190750	49478		
168) Unknown168		29.40	1848840	50628		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD1A.CH
Acq On : 6-7-01 5:10:39 PM
Sample : A555552 H1167
Misc :
IntFile : events.e

Vial: 12
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

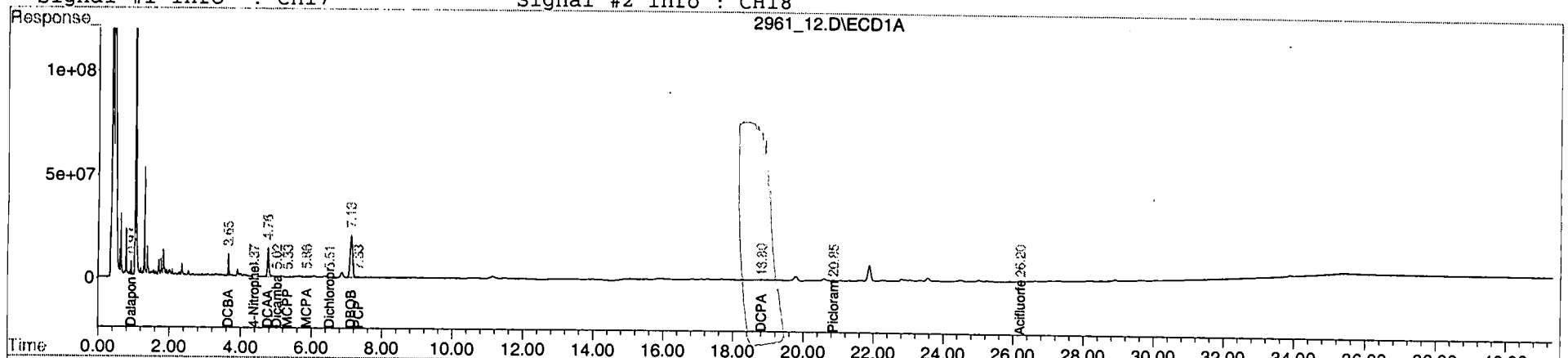
Data File : C:\HPCHEM\2\DATA\2961\2961_12.D\ECD2B.CH
Acq On : 6-7-01 5:57:48 PM
Sample : A555552 H1167
Misc :
IntFile : events2.e

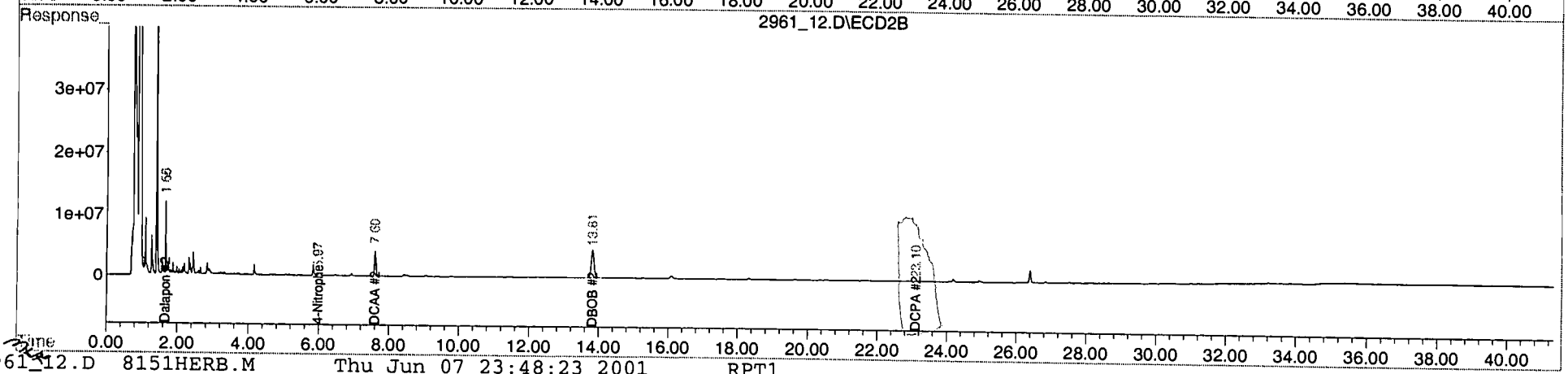
Vial: 12
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD1A.CH Vial: 13
Acq On : 6-7-01 5:57:48 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD2B.CH Vial: 13
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
4) S	DCAA	4.77	7.60	437.9E6	126.8E6	99.127	88.726	
	Spiked Amount 100.000			Recovery	=	99.13%	88.73%	
11) S	DBOB	7.13	13.82	1024.0E6	269.5E6	17.051	18.770	
	Spiked Amount 20.000			Recovery	=	85.25%	93.85%	
	Target Compounds							
1) T	Dalapon	0.93	1.66	954.5E6	167.1E6	151.664	72.698	#
2) T	DCBA	3.65	5.58	103.5E6	12482834	20.104	6.356	#
3) T	4-Nitrophenol	4.34	5.97	6596304	2750871	2.805	4.095	#
5) T	Dicamba	5.00	7.78	826.8E6	272.7E6	56.904	51.417	
6) T	MCPP	0.00	0.00	0	0	N.D.	N.D.	
7) T	MCPA	0.00	0.00	0	0	N.D.	N.D.	
8) T	Dichloroprop	6.52	0.00	19428718	0	4.012	N.D.	#
9) T	2,4-D	7.52	12.37	1315.4E6	367.9E6	223.788	233.178	
10) T	PCP	7.36	15.59	412.2E6	102.4E6	6.137	5.307	
12) T	2,4,5-TP (Silvex	10.07	17.05	1509.1E6	353.3E6	52.700	50.393	
13) T	Chloramben	0.00	0.00	0	0	N.D.	N.D.	
14) T	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
15) T	2,4-DB	0.00	0.00	0	0	N.D.	N.D.	
16) T	Picloram	20.84	22.44	2756.9E6	337.4E6	96.798	82.928	
17) T	Bentazon	0.00	20.91	0	584.2E6	N.D.	883.055	#
18) T	Dinoseb	17.03	20.71	408.9E6	50571555	20.878	13.014	#
19) T	DCPA	18.81	23.09	11723.6E6	2582.6E6	351.834	376.451	
20) T	Acifluorfen	0.00	0.00	0	0	N.D.	N.D.	

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.98	18782200	1708860
2) Unknown 2	1.04	7037050000	682429000
3) Unknown 3	1.20	154692000	12630500
4) Unknown 4	3.72	12623400	386172
5) Unknown 5	3.84	8030620	315846
6) Unknown 6	3.90	101298000	4705770
7) Unknown 7	4.00	41661700	1404730
8) Unknown 8	4.08	24952100	824842
9) Unknown 9	4.17	53365900	3049260
10) Unknown 10	4.24	142636000	7281020
11) Unknown 11	4.42	10668900	372997
12) Unknown 12	4.49	11285600	362394
13) Unknown 13	4.57	21864200	743868
14) Unknown 14	4.68	6542690	212054
15) Unknown 15	4.86	19265100	691830
16) Unknown 16	5.14	38752300	739323
17) Unknown 17	5.28	58756400	1095460
18) Unknown 18	5.52	10346700	362723

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD1A.CH Vial: 13
Acq On : 6-7-01 5:57:48 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD2B.CH Vial: 13
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		5.64	41838400	586285		
20) Unknown 20		5.74	16365300	472984		
21) Unknown 21		5.80	52298100	720362		
22) Unknown 22		5.93	9098960	351320		
23) Unknown 23		6.04	72475300	874173		
24) Unknown 24		6.27	10589400	246310		
25) Unknown 25		6.37	36336000	613047		
26) Unknown 26		6.87	60807800	898461		
27) Unknown 27		7.92	42292100	601262		
28) Unknown 28		8.33	24941100	227228		
29) Unknown 29		8.90	13828000	181108		
Unknown 30		9.50	374321000	4975030		
31) Unknown 31		10.60	39411700	279090		
32) Unknown 32		10.78	41498100	280092		
33) Unknown 33		11.15	125698000	1060790		
34) Unknown 34		11.45	66553300	554292		
35) Unknown 35		11.75	1107200000	10176500		
36) Unknown 36		12.89	29082600	164638		
37) Unknown 37		13.18	11204400	89463		
38) Unknown 38		13.45	5785510	39536		
39) Unknown 39		13.80	157663000	682512		
40) Unknown 40		15.06	190568000	812503		
41) Unknown 41		15.23	85247800	673806		
42) Unknown 42		15.59	96850300	903603		
43) Unknown 43		15.77	334118000	2482970		
44) Unknown 44		16.22	2990160000	34132000		
45) Unknown 45		16.60	102622000	992359		
46) Unknown 46		16.80	106982000	1069570		
47) Unknown 47		17.67	225167000	1024900		
48) Unknown 48		18.03	95460800	583752		
49) Unknown 49		18.32	144084000	1113670		
50) Unknown 50		19.56	149887000	947814		
51) Unknown 51		19.79	48959100	609974		
52) Unknown 52		20.08	128686000	2034790		
53) Unknown 53		20.24	258996000	3218860		
54) Unknown 54		20.62	95123800	828361		
55) Unknown 55		21.58	173828000	841976		
56) Unknown 56		21.86	102668000	823348		
57) Unknown 57		22.21	196540000	1502290		
58) Unknown 58		22.52	56016000	535369		
59) Unknown 59		22.76	32985200	391729		
Unknown 60		23.05	108898000	788818		
Unknown 61		23.30	71180100	709847		
62) Unknown 62		23.53	188458000	1477130		
63) Unknown 63		24.00	25811200	327897		
64) Unknown 64		24.16	23018700	272516		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD1A.CH Vial: 13
Acq On : 6-7-01 5:57:48 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD2B.CH Vial: 13
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
65) Unknown 65		24.31	26285500	299303		
66) Unknown 66		24.51	44076100	541563		
67) Unknown 67		24.70	36740900	373801		
68) Unknown 68		25.03	79070400	835980		
69) Unknown 69		25.33	89654300	666257		
70) Unknown 70		26.28	64717500	214027		
71) Unknown 71		26.61	68635800	779019		
72) Unknown 72		26.90	20801700	253962		
Second Signal						
73) Unknown 73		1.52	59302	69987		
74) Unknown 74		1.57	217436000	15881800		
75) Unknown 75		1.68	114353000	8436900		
76) Unknown 76		1.74	31152200	2179970		
77) Unknown 77		1.85	3337120	345031		
78) Unknown 78		1.87	11616900	1418520		
79) Unknown 79		1.90	2929210	293110		
80) Unknown 80		1.93	8106450	971546		
81) Unknown 81		1.96	76114700	5412160		
82) Unknown 82		2.05	9721010	942668		
83) Unknown 83		2.08	9302020	681394		
84) Unknown 84		2.10	5598820	399140		
85) Unknown 85		2.15	16872400	1435050		
86) Unknown 86		2.19	25045700	1852140		
87) Unknown 87		2.22	10459100	745421		
88) Unknown 88		2.27	751456	98049		
89) Unknown 89		2.32	39415400	2396740		
90) Unknown 90		2.36	12108600	928716		
91) Unknown 91		2.41	28131500	1973090		
92) Unknown 92		2.44	19067200	1144560		
93) Unknown 93		2.51	5719250	384053		
94) Unknown 94		2.56	3580750	242131		
95) Unknown 95		2.59	7646070	750992		
96) Unknown 96		2.64	4027300	251360		
97) Unknown 97		2.66	1269150	150208		
98) Unknown 98		2.68	1116710	105078		
99) Unknown 99		2.74	699053	95151		
100) Unknown100		2.77	6003280	521220		
101) Unknown101		2.80	12381700	1530730		
102) Unknown102		2.83	42203800	1814410		
103) Unknown103		2.89	19323800	1099960		
104) Unknown104		3.01	2568020	176807		
105) Unknown105		3.05	7739970	532076		
106) Unknown106		3.16	36056800	2724340		
107) Unknown107		3.21	76398000	6711050		
108) Unknown108		5.67	1359210	73781		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD1A.CH Vial: 13
Acq On : 6-7-01 5:57:48 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD2B.CH Vial: 13
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MS H1167 Inst : Instr 324
Misc : SPI02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		5.84	35689800	1611070		
110) Unknown110		5.92	3029760	130900		
111) Unknown111		6.06	4845780	179143		
112) Unknown112		6.47	5023850	146640		
113) Unknown113		6.88	4589320	222735		
114) Unknown114		6.93	18625500	687622		
115) Unknown115		7.07	11937400	267868		
116) Unknown116		7.18	4993060	129649		
117) Unknown117		7.33	3265070	71547		
118) Unknown118		7.53	1803080	76758		
119) Unknown119		8.12	26497800	914424		
[illegible] Unknown120		8.20	4537120	143995		
[illegible] Unknown121		8.43	2279530	70933		
122) Unknown122		8.50	7488090	190827		
123) Unknown123		9.05	7484830	164354		
124) Unknown124		9.21	4029160	89233		
125) Unknown125		11.43	4370200	85029		
126) Unknown126		12.88	9675550	121381		
127) Unknown127		16.09	22444700	437512		
128) Unknown128		16.44	93500500	1958500		
129) Unknown129		17.30	9324310	169123		
130) Unknown130		17.47	23314400	349879		
131) Unknown131		18.15	216197000	5198600		
132) Unknown132		18.31	11677200	253427		
133) Unknown133		19.15	2950200	58234		
134) Unknown134		19.68	2706930	74236		
135) Unknown135		20.17	33877900	673389		
136) Unknown136		20.53	11646400	233383		
137) Unknown137		21.21	484275	17794		
138) Unknown138		21.60	26800800	420225		
139) Unknown139		21.86	27603100	282117		
140) Unknown140		22.05	10622300	162141		
141) Unknown141		22.13	4921510	130731		
142) Unknown142		22.24	16810600	316216		
143) Unknown143		22.80	6962160	186851		
144) Unknown144		22.87	11883400	228093		
145) Unknown145		23.45	5292660	123188		
146) Unknown146		23.90	24512000	645781		
147) Unknown147		24.19	6524140	136707		
148) Unknown148		24.84	2953110	99572		
149) Unknown149		24.91	4178470	114872		
[illegible] Unknown150		26.03	18128300	263304		
[illegible] Unknown151		26.21	21230400	266605		
152) Unknown152		26.40	8287650	151342		
153) Unknown153		26.49	6098660	165235		
154) Unknown154		26.56	8732190	176322		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD1A.CH
Acq On : 6-7-01 5:57:48 PM
Sample : A555552 MS H1167
Misc : SPI02
IntFile : events.e

Vial: 13
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD2B.CH
Acq On : 6-7-01 6:44:45 PM
Sample : A555552 MS H1167
Misc : SPI02
IntFile : events2.e

Vial: 13
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
155) Unknown155		27.77		5308260	73611	
156) Unknown156		27.91		2421690	55243	
157) Unknown157		28.51		2256580	43414	
158) Unknown158		28.74		1577290	47065	
159) Unknown159		29.27		5296480	92056	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD1A.CH
Acq On : 6-7-01 5:57:48 PM
Sample : A555552 MS H1167
Misc : SPI02
IntFile : events.e

Vial: 13
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

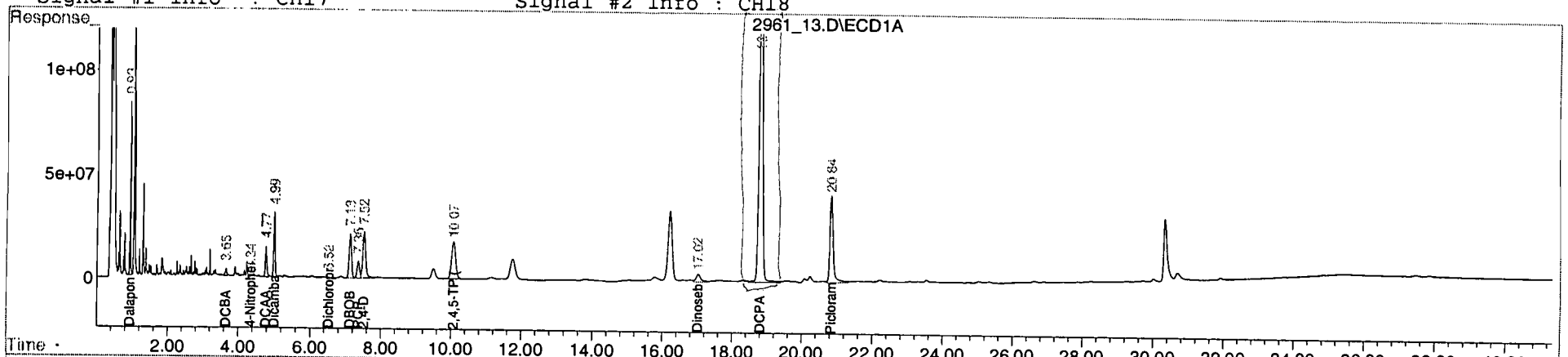
Data File : C:\HPCHEM\2\DATA\2961\2961_13.D\ECD2B.CH
Acq On : 6-7-01 6:44:45 PM
Sample : A555552 MS H1167
Misc : SPI02
IntFile : events2.e

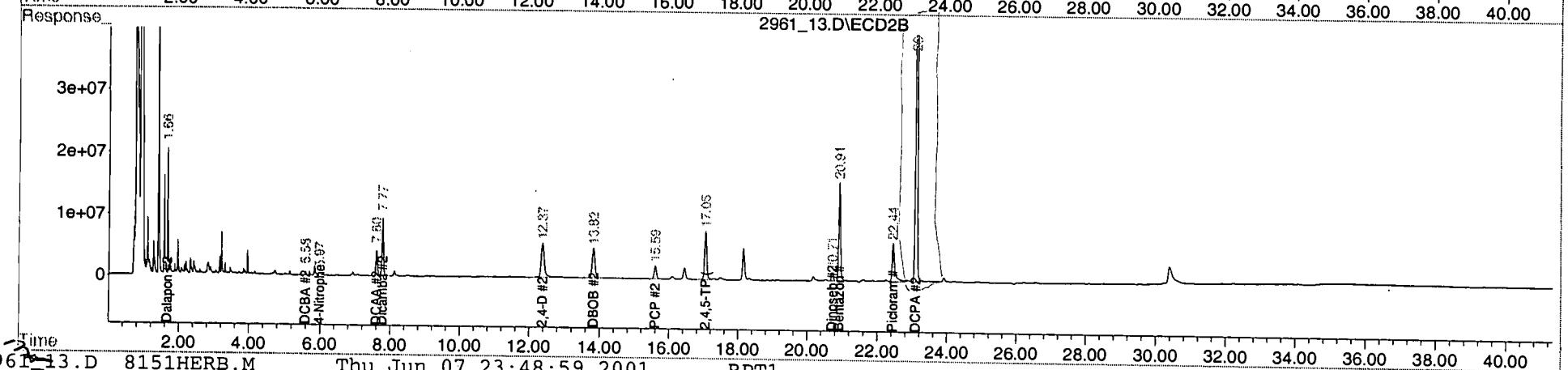
Vial: 13
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:48 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD1A.CH Vial: 14
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events.e

spike duplicate

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD2B.CH Vial: 14
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

spike duplicate

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
4) S	DCAA	4.77	7.60	395.0E6	120.3E6	89.422	84.165	
Spiked Amount	100.000			Recovery	=	89.42%	84.17%	
11) S	DBOB	7.13	13.82	991.5E6	248.4E6	16.510	17.299	
Spiked Amount	20.000			Recovery	=	82.55%	86.50%	
	Target Compounds							
1) T	Dalapon	0.93	1.66	1924.7E6	534.9E6	305.810	232.666	
2) T	DCBA	3.62	5.58	14325665	16799841	2.782	8.554	#
3) T	4-Nitrophenol	4.34	5.97	5191042	2744050	2.208	4.085	#
5) T	Dicamba	4.99	7.77	813.7E6	260.6E6	56.006	49.128	
[illegible] T	MCPP	5.32	0.00	29398797	0	2.551	N.D.	#
[illegible] T	MCPA	5.85	9.50	34737669	2852617	2.013	0.489	#
8) T	Dichloroprop	0.00	0.00	0	0	N.D.	N.D.	
9) T	2,4-D	7.52	12.37	1257.3E6	328.3E6	213.901	208.075	
10) T	PCP	7.35	15.59	493.8E6	124.4E6	7.351	6.449	
12) T	2,4,5-TP (Silvex	10.06	17.05	1510.8E6	331.8E6	52.759	47.322	
13) T	Chloramben	0.00	0.00	0	0	N.D.	N.D.	
14) T	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
15) T	2,4-DB	0.00	0.00	0	0	N.D.	N.D.	
16) T	Picloram	20.84	22.44	2768.8E6	333.9E6	97.214	82.065	
17) T	Bentazon	0.00	20.92	0	504.0E6	N.D.	761.915	#
18) T	Dinoseb	17.02	20.71	1504.6E6	267.7E6	76.812	68.887	
19) T	DCPA	18.81	23.09	11410.7E6	2389.7E6	342.445	348.330	
20) T	Acifluorfen	26.17	0.00	106.3E6	0	3.951	N.D.	#

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	1.04	8423070000	828107000
2) Unknown 2	1.11	98947600	7438360
3) Unknown 3	1.20	659351000	59848800
4) Unknown 4	3.65	101514000	3788920
5) Unknown 5	3.72	5955350	340851
6) Unknown 6	3.84	9121930	376634
7) Unknown 7	3.90	124407000	5912230
8) Unknown 8	3.99	39007400	1290110
9) Unknown 9	4.08	24778700	805843
10) Unknown 10	4.17	16499100	678508
11) Unknown 11	4.24	99994700	5000120
12) Unknown 12	4.37	3173790	204225
13) Unknown 13	4.42	8571250	386262
[illegible] Unknown 14	4.49	24783600	935924
[illegible] Unknown 15	4.57	11431400	311771
16) Unknown 16	4.69	5990840	209817
17) Unknown 17	4.86	30130800	1005120
18) Unknown 18	5.14	40971800	836531

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD1A.CH Vial: 14
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD2B.CH Vial: 14
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		5.28	17892700	734217		
20) Unknown 20		5.40	9364380	269862		
21) Unknown 21		5.52	12369400	382047		
22) Unknown 22		5.56	11369700	392943		
23) Unknown 23		5.64	27607700	573949		
24) Unknown 24		5.74	19381100	675826		
25) Unknown 25		5.79	47258700	1122160		
26) Unknown 26		6.06	55969600	912882		
27) Unknown 27		6.26	4983770	146749		
28) Unknown 28		6.37	27095900	685591		
29) Unknown 29		6.86	60657500	1009530		
[illegible] Unknown 30		7.79	20065400	349097		
[illegible] Unknown 31		7.91	18177700	359361		
32) Unknown 32		8.30	12173000	132553		
33) Unknown 33		8.59	4550300	78458		
34) Unknown 34		8.89	20736500	237675		
35) Unknown 35		9.14	12274900	157525		
36) Unknown 36		9.50	344908000	4621350		
37) Unknown 37		9.75	26790100	309029		
38) Unknown 38		10.60	68843000	285954		
39) Unknown 39		11.14	154489000	1307030		
40) Unknown 40		11.45	51769800	442700		
41) Unknown 41		11.75	1067710000	9748600		
42) Unknown 42		12.87	21091100	142963		
43) Unknown 43		13.18	12040600	97650		
44) Unknown 44		13.43	5545670	74774		
45) Unknown 45		13.79	162313000	720431		
46) Unknown 46		15.04	234654000	777964		
47) Unknown 47		15.57	124538000	694322		
48) Unknown 48		15.87	233763000	1505340		
49) Unknown 49		16.22	2598330000	30223400		
50) Unknown 50		16.60	100195000	970401		
51) Unknown 51		16.79	118495000	1236820		
52) Unknown 52		17.66	280477000	2084770		
53) Unknown 53		18.04	95894400	584712		
54) Unknown 54		18.32	219004000	1684010		
55) Unknown 55		19.28	56549300	644656		
56) Unknown 56		19.57	209873000	1003070		
57) Unknown 57		20.08	130408000	2106430		
58) Unknown 58		20.24	328933000	4119780		
59) Unknown 59		20.62	102689000	956218		
[illegible] Unknown 60		21.41	139317000	1550010		
[illegible] Unknown 61		21.58	61373100	911597		
62) Unknown 62		21.72	72172300	1009930		
63) Unknown 63		21.86	65953200	830645		
64) Unknown 64		21.97	17645400	603455		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD1A.CH Vial: 14
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD2B.CH Vial: 14
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
65) Unknown 65		22.22	290486000	2713820		
66) Unknown 66		22.54	56221200	528077		
67) Unknown 67		22.76	38774700	481813		
68) Unknown 68		23.05	128449000	912505		
69) Unknown 69		23.30	67513200	743061		
70) Unknown 70		23.53	170058000	1040410		
71) Unknown 71		23.98	35466500	360981		
72) Unknown 72		24.17	26585700	292063		
73) Unknown 73		24.33	23312600	313830		
74) Unknown 74		24.51	44501300	435474		
75) Unknown 75		24.71	21825600	372199		
76) Unknown 76		24.79	21734500	276612		
77) Unknown 77		25.02	64439700	665350		
78) Unknown 78		25.34	82422300	649871		
79) Unknown 79		26.49	11113000	191543		
80) Unknown 80		26.62	27651700	341866		
81) Unknown 81		26.90	19688600	264758		
Second Signal						
82) Unknown 82		1.57	342340000	25372900		
83) Unknown 83		1.73	30717500	2234190		
84) Unknown 84		1.82	1280070	121155		
85) Unknown 85		1.85	1982920	275688		
86) Unknown 86		1.87	9060500	1125220		
87) Unknown 87		1.90	1720890	196843		
88) Unknown 88		1.93	19248200	2653290		
89) Unknown 89		1.95	294161000	22690000		
90) Unknown 90		2.03	109859000	9314330		
91) Unknown 91		2.07	9736010	822279		
92) Unknown 92		2.10	8536600	673689		
93) Unknown 93		2.14	13495300	1173660		
94) Unknown 94		2.18	28903700	2227500		
95) Unknown 95		2.22	11665300	894831		
96) Unknown 96		2.27	487779	84231		
97) Unknown 97		2.31	45492400	2801120		
98) Unknown 98		2.36	22633600	1536410		
99) Unknown 99		2.41	27591600	1905090		
100) Unknown100		2.44	28925400	1600310		
101) Unknown101		2.51	124020000	12498700		
102) Unknown102		2.56	3409660	293496		
103) Unknown103		2.59	8395730	836515		
104) Unknown104		2.64	5282040	420294		
105) Unknown105		2.66	2005220	242273		
106) Unknown106		2.68	1749780	197433		
107) Unknown107		2.71	927309	77197		
108) Unknown108		2.74	1230760	132327		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD1A.CH Vial: 14
Acq On : 6-7-01 6:44:45 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD2B.CH Vial: 14
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555552 MSD H1167 Inst : Instr 324
Misc : DPS02 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		2.77	7567080	720801		
110) Unknown110		2.80	11911700	1585430		
111) Unknown111		2.83	50971100	2037530		
112) Unknown112		2.89	21260200	1125080		
113) Unknown113		2.92	5251340	484575		
114) Unknown114		2.96	3296620	185581		
115) Unknown115		3.01	3196130	179087		
116) Unknown116		3.05	9779190	709441		
117) Unknown117		3.16	32038100	2384190		
118) Unknown118		3.21	56142300	4626530		
119) Unknown119		3.26	2446380	176897		
[illegible] Unknown120		5.84	30925100	1370210		
[illegible] Unknown121		5.91	2986820	134196		
122) Unknown122		6.07	5920460	211759		
123) Unknown123		6.19	2326090	74391		
124) Unknown124		6.47	3654160	117768		
125) Unknown125		6.93	13176800	324346		
126) Unknown126		7.07	7838650	152511		
127) Unknown127		7.18	4645690	139516		
128) Unknown128		7.33	3262720	88938		
129) Unknown129		7.52	6715140	241459		
130) Unknown130		8.12	15358900	560211		
131) Unknown131		8.50	14572700	325136		
132) Unknown132		9.05	11570300	250549		
133) Unknown133		9.20	7249060	157900		
134) Unknown134		10.24	5492090	71688		
135) Unknown135		10.58	4013320	66597		
136) Unknown136		10.76	3687440	54333		
137) Unknown137		11.00	4772950	96736		
138) Unknown138		11.43	5733920	106271		
139) Unknown139		12.75	2209400	46768		
140) Unknown140		15.26	4478020	70000		
141) Unknown141		16.09	27675200	536094		
142) Unknown142		16.44	82146500	1707340		
143) Unknown143		16.91	4369140	113439		
144) Unknown144		17.30	8911760	161624		
145) Unknown145		17.47	23891300	363634		
146) Unknown146		18.15	193052000	4624340		
147) Unknown147		18.32	14639600	302355		
148) Unknown148		19.53	2567100	51434		
149) Unknown149		19.68	4081320	86863		
[illegible] Unknown150		20.17	2603210	103984		
[illegible] Unknown151		20.54	20352900	416285		
152) Unknown152		21.60	27693200	461437		
153) Unknown153		21.74	10739400	180900		
154) Unknown154		21.86	25786800	465248		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD1A.CH
Acq On : 6-7-01 6:44:45 PM
Sample : A555552 MSD H1167
Misc : DPS02
IntFile : events.e

Vial: 14
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD2B.CH
Acq On : 6-7-01 7:31:54 PM
Sample : A555552 MSD H1167
Misc : DPS02
IntFile : events2.e

Vial: 14
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
155) Unknown155		22.06	10733100	180515		
156) Unknown156		22.12	7827820	175662		
157) Unknown157		22.24	17912400	317026		
158) Unknown158		22.87	17267100	243401		
159) Unknown159		23.45	3746240	84750		
160) Unknown160		23.90	36600000	852178		
161) Unknown161		24.20	6236520	108641		
162) Unknown162		24.36	4732960	71983		
163) Unknown163		24.65	6596280	187107		
164) Unknown164		24.72	3216070	107751		
165) Unknown165		24.84	4001560	129274		
[illegible] Unknown166		24.92	3441360	92475		
[illegible] Unknown167		26.03	50007	137034		
168) Unknown168		26.21	2866430	64536		
169) Unknown169		26.41	2459220	78362		
170) Unknown170		26.56	20748700	511413		
171) Unknown171		27.78	3031650	49117		
172) Unknown172		28.51	2165300	45906		
173) Unknown173		28.74	2097960	54396		
174) Unknown174		29.14	4114250	44243		
175) Unknown175		29.27	4821870	91732		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD1A.CH
Acq On : 6-7-01 6:44:45 PM
Sample : A555552 MSD H1167
Misc : DPS02
IntFile : events.e

Vial: 14
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

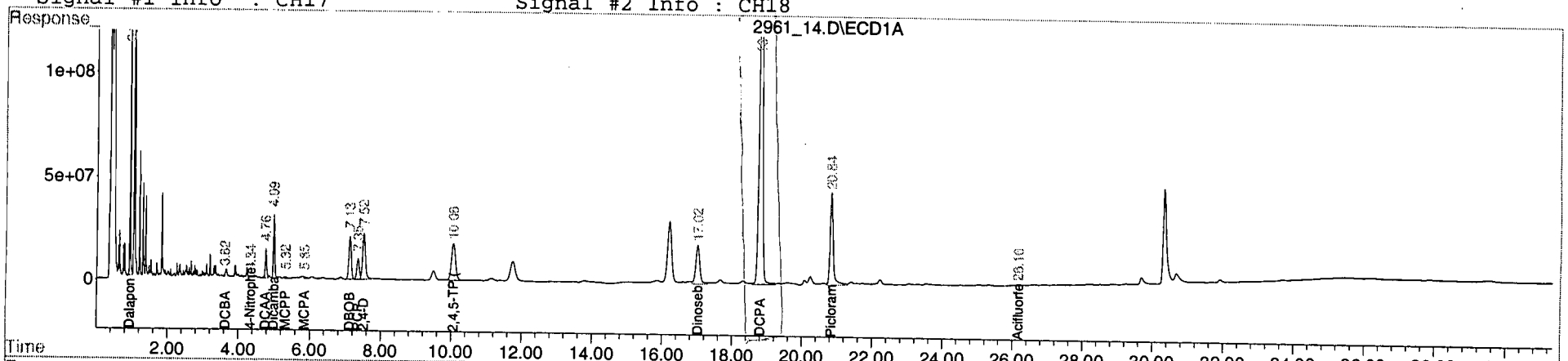
Data File : C:\HPCHEM\2\DATA\2961\2961_14.D\ECD2B.CH
Acq On : 6-7-01 7:31:54 PM
Sample : A555552 MSD H1167
Misc : DPS02
IntFile : events2.e

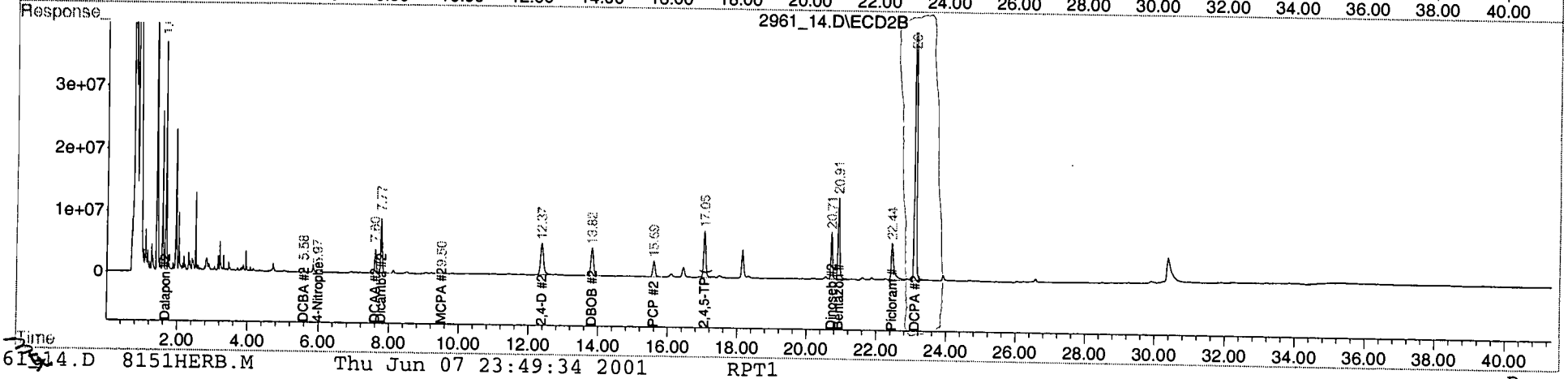
Vial: 14
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD1A.CH Vial: 15
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD2B.CH Vial: 15
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
4) S	DCAA	4.77	7.60	414.2E6	131.5E6	93.773	91.960
Spiked Amount	100.000			Recovery	=	93.77%	91.96%
11) S	DBOB	7.13	13.82	1024.9E6	258.6E6	17.066	18.011
Spiked Amount	20.000			Recovery	=	85.33%	90.05%
	Target Compounds						
1) T	Dalapon	0.93	1.66	814.6E6	93942021	129.426 not conf.	40.858 # BDL
2) T	DCBA	3.65	5.58	61178260	30558652	11.881	15.559 #
3) T	4-Nitrophenol	4.34	5.97	7511869	2744755	3.194	4.086 #
5) T	Dicamba	0.00	0.00	0	0	N.D.	N.D.
[illegible] T	MCPP	5.33	8.63	47129523	3322006	4.089	0.878 #
[illegible] T	MCPA	0.00	0.00	0	0	N.D.	N.D.
8) T	Dichloroprop	0.00	0.00	0	0	N.D.	N.D.
9) T	2,4-D	7.53	0.00	4542684	0	0.773 BDL	N.D. #
10) T	PCP	7.40	0.00	19511820	0	0.290	N.D. #
12) T	2,4,5-TP (Silvex	0.00	0.00	0	0	N.D.	N.D.
13) T	Chloramben	0.00	0.00	0	0	N.D.	N.D.
14) T	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.
15) T	2,4-DB	0.00	0.00	0	0	N.D.	N.D.
16) T	Picloram	20.85	0.00	68213770	0	2.395	N.D. #
17) T	Bentazon	0.00	20.91	0	522.8E6	N.D.	790.257 #
18) T	Dinoseb	0.00	0.00	0	0	N.D.	N.D.
19) T	DCPA	18.81	23.09	11526.1E6	2405.6E6	345.906	350.646
20) T	Acifluorfen	26.17	0.00	104.6E6	0	3.888	N.D. #

confirmed but not of interest

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.88	5834550	750363
2) Unknown 2	0.90	6373070	663330
3) Unknown 3	0.99	27459500	2043600
4) Unknown 4	1.04	8673750000	885747000
5) Unknown 5	1.11	163593000	9994480
6) Unknown 6	1.20	561957000	49692300
7) Unknown 7	3.67	48840600	3349250
8) Unknown 8	3.72	13209000	444038
9) Unknown 9	3.85	9497980	362170
10) Unknown 10	3.90	105562000	4874260
11) Unknown 11	3.99	44648700	1455680
12) Unknown 12	4.08	23129300	761946
13) Unknown 13	4.17	39185800	2117940
[illegible] Unknown 14	4.24	174547000	8579330
[illegible] Unknown 15	4.43	10116500	421928
16) Unknown 16	4.49	19917800	647892
17) Unknown 17	4.60	2425760	126161
18) Unknown 18	4.68	5589550	185244

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD1A.CH Vial: 15
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD2B.CH Vial: 15
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		4.86	24200300	848410		
20) Unknown 20		5.14	40384300	622444		
21) Unknown 21		5.56	27559600	507712		
22) Unknown 22		5.64	32694000	615627		
23) Unknown 23		5.74	19897400	668513		
24) Unknown 24		5.80	74346300	1134320		
25) Unknown 25		5.93	33859900	848254		
26) Unknown 26		6.05	69346600	903091		
27) Unknown 27		6.27	25799100	524609		
28) Unknown 28		6.37	57981500	739304		
29) Unknown 29		6.78	13518800	285689		
30) Unknown 30		6.86	31661600	466866		
31) Unknown 31		7.81	22393800	324429		
32) Unknown 32		7.92	33696600	549217		
33) Unknown 33		8.14	3923220	56922		
34) Unknown 34		8.89	15374000	194248		
35) Unknown 35		9.15	9776900	104616		
36) Unknown 36		9.50	359238000	4698140		
37) Unknown 37		9.76	8790690	181978		
38) Unknown 38		9.87	24872200	206733		
39) Unknown 39		10.61	45529400	208620		
40) Unknown 40		11.15	117091000	1030840		
41) Unknown 41		11.34	23405500	259037		
42) Unknown 42		11.75	1084900000	9813670		
43) Unknown 43		12.84	24430600	175607		
44) Unknown 44		13.18	17000800	106013		
45) Unknown 45		13.45	2969430	31251		
46) Unknown 46		13.80	203514000	992300		
47) Unknown 47		15.06	226927000	837914		
48) Unknown 48		15.58	146106000	728261		
49) Unknown 49		15.87	234217000	1401080		
50) Unknown 50		16.22	2797050000	31011400		
51) Unknown 51		16.80	214502000	1295480		
52) Unknown 52		17.09	110313000	763860		
53) Unknown 53		17.68	336867000	2544510		
54) Unknown 54		18.05	73837300	529057		
55) Unknown 55		18.32	190176000	1273620		
56) Unknown 56		19.27	50480400	590326		
57) Unknown 57		19.55	78904800	796180		
58) Unknown 58		19.66	54922200	712644		
59) Unknown 59		19.79	40819400	549128		
60) Unknown 60		20.25	269280000	2945490		
61) Unknown 61		20.62	91245400	731901		
62) Unknown 62		21.07	36743400	339913		
63) Unknown 63		21.41	85048900	990211		
64) Unknown 64		21.59	40533300	562852		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD1A.CH Vial: 15
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD2B.CH Vial: 15
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
65) Unknown 65		21.73	56252100	804434		
66) Unknown 66		21.87	62005700	637376		
67) Unknown 67		22.08	41557200	588677		
68) Unknown 68		22.22	189963000	2096800		
69) Unknown 69		22.54	33278700	357537		
70) Unknown 70		23.05	120538000	701446		
71) Unknown 71		23.31	51061800	577802		
72) Unknown 72		23.53	188865000	1592800		
73) Unknown 73		23.99	32143400	334729		
74) Unknown 74		24.32	45402200	306284		
75) Unknown 75		24.52	48180900	510473		
[illegible] Unknown 76		24.72	27799100	347511		
[illegible] Unknown 77		24.83	8227750	229446		
78) Unknown 78		25.02	65442500	666084		
79) Unknown 79		25.33	83431700	650911		
80) Unknown 80		25.82	7713970	182721		
81) Unknown 81		26.49	9083780	171777		
82) Unknown 82		26.61	27546500	318056		
83) Unknown 83		26.91	14357600	208804		
Second Signal						
84) Unknown 84		1.57	312963000	26695400		
85) Unknown 85		1.68	49484100	3757580		
86) Unknown 86		1.74	25066100	1896790		
87) Unknown 87		1.82	757961	87383		
88) Unknown 88		1.85	2685180	352712		
89) Unknown 89		1.87	10654900	1355250		
90) Unknown 90		1.90	2102320	239866		
91) Unknown 91		1.93	18259400	2503210		
92) Unknown 92		1.95	254553000	20615500		
93) Unknown 93		2.03	48416200	5625190		
94) Unknown 94		2.05	21331600	2201610		
95) Unknown 95		2.07	7253600	707711		
96) Unknown 96		2.10	6480310	570284		
97) Unknown 97		2.15	13430300	1100470		
98) Unknown 98		2.19	21630900	1590500		
99) Unknown 99		2.22	10593400	830311		
100) Unknown100		2.27	315151	56644		
101) Unknown101		2.32	29965700	1856860		
102) Unknown102		2.36	22977400	1577960		
103) Unknown103		2.41	14072900	957789		
1[illegible] Unknown104		2.45	22933000	1402960		
1[illegible] Unknown105		2.52	87257600	9095900		
106) Unknown106		2.56	3821080	322980		
107) Unknown107		2.59	11481200	1083350		
108) Unknown108		2.63	2275070	305759		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD1A.CH Vial: 15
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD2B.CH Vial: 15
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		2.64	3916360	448990		
110) Unknown110		2.66	2164060	259977		
111) Unknown111		2.68	2099630	222888		
112) Unknown112		2.72	1085220	102790		
113) Unknown113		2.74	1549940	152294		
114) Unknown114		2.77	6332930	608791		
115) Unknown115		2.80	22420400	1970080		
116) Unknown116		2.83	17144400	1598880		
117) Unknown117		2.84	16670700	1602520		
118) Unknown118		2.87	6034520	624254		
119) Unknown119		2.89	15169600	1136470		
[illegible] Unknown120		2.92	5522870	528927		
[illegible] Unknown121		2.96	4792050	289652		
122) Unknown122		3.01	4237020	266953		
123) Unknown123		3.05	9729410	739573		
124) Unknown124		3.16	45639100	3548490		
125) Unknown125		3.21	82755300	7217850		
126) Unknown126		5.67	1304290	71068		
127) Unknown127		5.84	37578600	1677460		
128) Unknown128		5.91	3286050	149377		
129) Unknown129		6.07	7610050	274143		
130) Unknown130		6.20	2967440	83626		
131) Unknown131		6.47	3911910	120864		
132) Unknown132		6.88	4168640	174472		
133) Unknown133		6.93	7226260	267692		
134) Unknown134		7.03	4873720	97164		
135) Unknown135		7.18	4750080	146626		
136) Unknown136		7.34	6571650	213435		
137) Unknown137		7.52	4318360	158191		
138) Unknown138		8.12	25233500	884265		
139) Unknown139		8.50	10991000	260798		
140) Unknown140		9.05	8299580	183259		
141) Unknown141		9.21	8806530	210087		
142) Unknown142		10.25	4059030	61809		
143) Unknown143		10.58	4291880	73170		
144) Unknown144		11.00	2689900	61042		
145) Unknown145		11.43	3760740	68971		
146) Unknown146		12.53	7944110	102554		
147) Unknown147		15.26	3849790	52869		
148) Unknown148		16.09	22380300	426285		
149) Unknown149		16.44	84915100	1817160		
[illegible] Unknown150		17.48	25355100	408838		
[illegible] Unknown151		18.15	196343000	4652800		
152) Unknown152		18.32	11783100	256445		
153) Unknown153		19.68	4475130	101622		
154) Unknown154		20.17	8271450	186395		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD1A.CH Vial: 15
Acq On : 6-7-01 7:31:54 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD2B.CH Vial: 15
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555261 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
155) Unknown155		20.27		3284190	79178	
156) Unknown156		20.55		32006300	499699	
157) Unknown157		21.32		15741100	159954	
158) Unknown158		21.59		16732200	188738	
159) Unknown159		21.73		6603320	118964	
160) Unknown160		21.86		13535400	245328	
161) Unknown161		22.12		7984960	89702	
162) Unknown162		22.37		2555190	77590	
163) Unknown163		22.87		4027440	123233	
164) Unknown164		23.44		3533220	62712	
165) Unknown165		23.90		24900100	580606	
[illegible] Unknown166		24.22		2416840	52581	
[illegible] Unknown167		24.65		4713530	125046	
168) Unknown168		24.72		1808740	67919	
169) Unknown169		24.84		2531060	82601	
170) Unknown170		24.91		3667170	119210	
171) Unknown171		26.02		1447050	113410	
172) Unknown172		26.22		7279310	134735	
173) Unknown173		26.40		3801770	82652	
174) Unknown174		26.56		17122000	387773	
175) Unknown175		27.78		3413620	48356	
176) Unknown176		28.50		5616520	37632	
177) Unknown177		29.27		3974300	79434	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD1A.CH
Acq On : 6-7-01 7:31:54 PM
Sample : A555261 H1167
Misc :
IntFile : events.e

Vial: 15
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

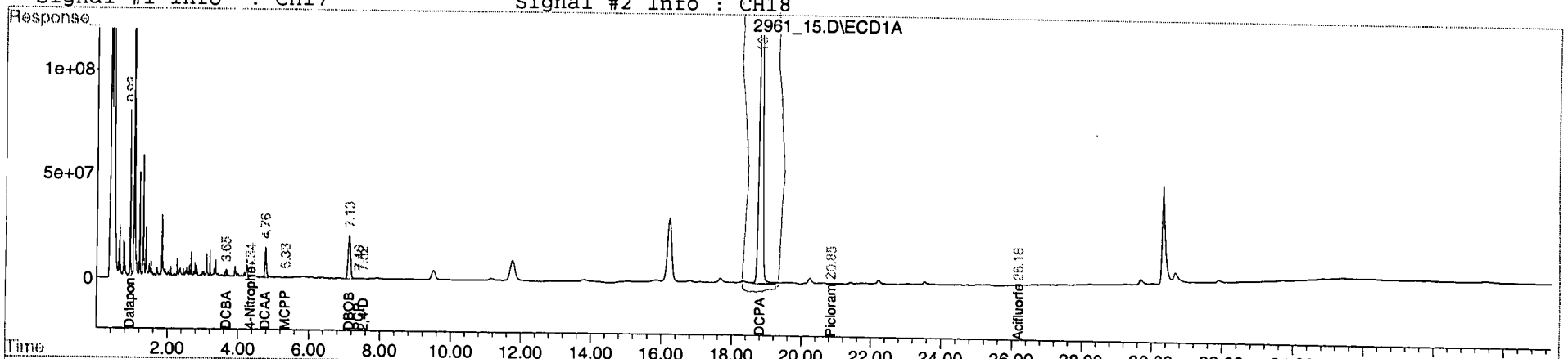
Data File : C:\HPCHEM\2\DATA\2961\2961_15.D\ECD2B.CH
Acq On : 6-7-01 8:18:55 PM
Sample : A555261 H1167
Misc :
IntFile : events2.e

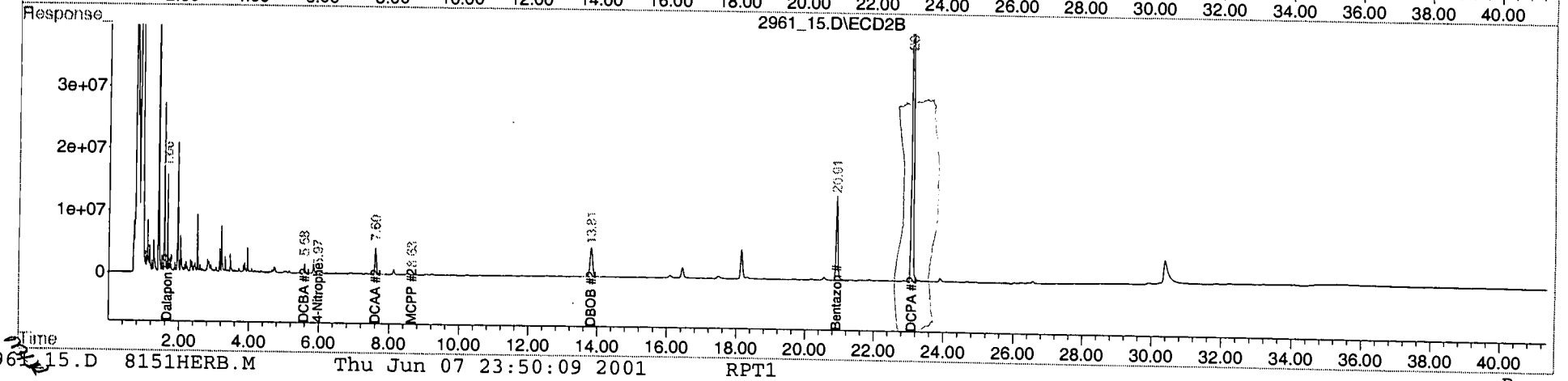
Vial: 15
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:49 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD1A.CH Vial: 16
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD2B.CH Vial: 16
Acq On : 6-7-01 9:06:02 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:50 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

DK27342 ran @ same time. another sampling event.

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
System Monitoring Compounds							
4) S DCAA	4.77	7.60	412.0E6	127.7E6	93.268	89.351	
Spiked Amount 100.000			Recovery =		93.27%	89.35%	
11) S DBOB	7.12	13.81	1038.3E6	255.1E6	17.289	17.769	
Spiked Amount 20.000			Recovery =		86.45%	88.84%	
Target Compounds							
1) T Dalapon	0.93	1.66	1804.0E6	100.8E6	286.640	43.823	#
2) T DCBA	3.67	0.00	12598226	0	2.447	N.D.	#
3) T 4-Nitrophenol	0.00	5.97	0	3783905	N.D.	5.633	#
4) T Dicamba	4.98	0.00	21023946	0	1.447	N.D.	#
5) T MCPP	5.36	0.00	14555919	0	1.263	N.D.	#
7) T MCPA	5.83	0.00	282.3E6	0	16.360	N.D.	#
8) T Dichloroprop	0.00	0.00	0	0	N.D.	N.D.	
9) T 2,4-D	0.00	0.00	0	0	N.D. BDL	N.D.	
10) T PCP	0.00	0.00	0	0	N.D.	N.D.	
12) T 2,4,5-TP (Silvex	0.00	0.00	0	0	N.D.	N.D.	
13) T Chloramben	0.00	0.00	0	0	N.D.	N.D.	
14) T 2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
15) T 2,4-DB	0.00	0.00	0	0	N.D.	N.D.	
16) T Picloram	20.86	0.00	25784069	0	0.905	N.D.	#
17) T Bentazon	0.00	20.92	0	172.6E6	N.D.	260.882	#
18) T Dinoseb	0.00	0.00	0	0	N.D.	N.D.	
19) T DCPA	18.81	23.09	9262.1E6	1976.9E6	277.961	288.157	
20) T Acifluorfen	26.19	0.00	49630635	0	1.844	N.D.	#

not conf. ∴ BDL

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	0.88	6881020	850054
2) Unknown 2	0.90	4750750	530522
3) Unknown 3	1.04	14335100000	1318870000
4) Unknown 4	1.20	509947000	41828900
5) Unknown 5	3.73	1521080	100836
6) Unknown 6	3.76	1805300	104604
7) Unknown 7	3.81	8616870	206313
8) Unknown 8	3.91	54373900	1982680
9) Unknown 9	4.00	29526000	1284360
10) Unknown 10	4.08	76796000	3499100
11) Unknown 11	4.16	13118300	438853
12) Unknown 12	4.24	5165450	242592
13) Unknown 13	4.41	36943700	1327410
Unknown 14	4.50	3089010	125084
Unknown 15	4.60	3858270	179756
16) Unknown 16	4.69	3527010	165313
17) Unknown 17	4.94	3594140	304815
18) Unknown 18	5.15	27047100	381331

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD1A.CH Vial: 16
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD2B.CH Vial: 16
Acq On : 6-7-01 9:06:02 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:50 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		5.41	12020800	272091		
20) Unknown 20		5.52	11391300	284506		
21) Unknown 21		5.56	2512160	260173		
22) Unknown 22		5.57	1350580	253940		
23) Unknown 23		5.65	59997800	1056930		
24) Unknown 24		6.07	46722000	725227		
25) Unknown 25		6.37	44402200	628510		
26) Unknown 26		6.76	8435740	202518		
27) Unknown 27		6.86	43733800	881102		
28) Unknown 28		7.29	9710900	169346		
29) Unknown 29		7.82	6694720	130201		
30) Unknown 30		8.33	4969020	68086		
31) Unknown 31		8.69	24443600	252994		
32) Unknown 32		8.90	26335900	272492		
33) Unknown 33		9.13	19007500	204996		
34) Unknown 34		9.50	21350700	192392		
35) Unknown 35		9.90	7653720	93426		
36) Unknown 36		10.59	22325500	139618		
37) Unknown 37		10.80	2386300	41906		
38) Unknown 38		11.14	201383000	1800110		
39) Unknown 39		11.76	300149000	2370210		
40) Unknown 40		13.79	237745000	1627600		
41) Unknown 41		15.05	101655000	402777		
42) Unknown 42		15.37	5250960	63815		
43) Unknown 43		15.87	75829400	766105		
44) Unknown 44		16.22	841217000	10256800		
45) Unknown 45		16.80	61446900	693728		
46) Unknown 46		17.11	905999000	10140500		
47) Unknown 47		17.67	439670000	5293370		
48) Unknown 48		18.08	43543500	323486		
49) Unknown 49		18.33	53847800	288610		
50) Unknown 50		19.46	44572800	435733		
51) Unknown 51		19.67	45115000	450411		
52) Unknown 52		19.78	31983700	411890		
53) Unknown 53		20.21	55258700	291710		
54) Unknown 54		20.46	29648700	377121		
55) Unknown 55		20.62	61201300	654377		
56) Unknown 56		21.05	19670100	165765		
57) Unknown 57		21.64	77670400	425988		
58) Unknown 58		22.04	60828400	501083		
59) Unknown 59		22.22	34486200	457982		
60) Unknown 60		22.31	21116100	395713		
61) Unknown 61		22.54	27680200	229848		
62) Unknown 62		23.05	109901000	720557		
63) Unknown 63		23.30	57758400	625687		
64) Unknown 64		23.53	95519900	1209100		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD1A.CH Vial: 16
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD2B.CH Vial: 16
Acq On : 6-7-01 9:06:02 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:50 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
65) Unknown 65		23.70	68750900	472349		
66) Unknown 66		24.01	19973700	269597		
67) Unknown 67		24.15	14222200	271816		
68) Unknown 68		24.30	33510200	312021		
69) Unknown 69		24.51	46386600	451936		
70) Unknown 70		24.80	35573300	236396		
71) Unknown 71		25.03	70735400	780605		
72) Unknown 72		25.22	61840600	421048		
73) Unknown 73		25.68	2203980	72560		
74) Unknown 74		26.34	17874000	213339		
75) Unknown 75		26.50	10172700	172125		
76) Unknown 76		26.63	24017400	285574		
77) Unknown 77		26.89	18117900	177710		
Second Signal						
78) Unknown 78		1.57	708786000	53357400		
79) Unknown 79		1.68	86790200	6306940		
80) Unknown 80		1.73	6478990	526148		
81) Unknown 81		1.82	764227	68604		
82) Unknown 82		1.87	31569800	3449850		
83) Unknown 83		1.95	180299000	14812200		
84) Unknown 84		2.03	1066020	102479		
85) Unknown 85		2.05	1112360	109172		
86) Unknown 86		2.08	1332320	146371		
87) Unknown 87		2.10	3324010	336592		
88) Unknown 88		2.12	1541140	190464		
89) Unknown 89		2.15	14520800	1290430		
90) Unknown 90		2.18	2089800	177461		
91) Unknown 91		2.23	984556	98837		
92) Unknown 92		2.27	737514	96892		
93) Unknown 93		2.29	712088	104881		
94) Unknown 94		2.33	9725190	464916		
95) Unknown 95		2.36	7684330	599081		
96) Unknown 96		2.43	12329300	1627080		
97) Unknown 97		2.45	28266100	2325360		
98) Unknown 98		2.52	2200000	204837		
99) Unknown 99		2.55	3228180	240493		
100) Unknown100		2.56	2664310	214652		
101) Unknown101		2.59	2244950	223953		
102) Unknown102		2.62	821809	111686		
103) Unknown103		2.64	4451080	409561		
104) Unknown104		2.74	680294	73340		
105) Unknown105		2.77	14462400	1134920		
106) Unknown106		2.83	14458100	1012370		
107) Unknown107		2.89	16480200	894931		
108) Unknown108		2.92	4324110	404140		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD1A.CH Vial: 16
Acq On : 6-7-01 8:18:55 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD2B.CH Vial: 16
Acq On : 6-7-01 9:06:02 PM Operator: HP Demo
Sample : A555553 H1167 Inst : Instr 324
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:50 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
109) Unknown109		3.10	489007	62910		
110) Unknown110		3.13	2604400	157066		
111) Unknown111		3.16	3296490	234217		
112) Unknown112		3.21	52115700	5204610		
113) Unknown113		5.84	24784400	978769		
114) Unknown114		6.06	4262530	169116		
115) Unknown115		6.28	2765830	86081		
116) Unknown116		6.41	2798920	110340		
117) Unknown117		6.46	6247130	174397		
118) Unknown118		6.93	6932500	260000		
119) Unknown119		8.43	2158820	75611		
[illegible]) Unknown120		8.51	5680650	174420		
[illegible]) Unknown121		9.05	8501800	205450		
122) Unknown122		10.68	66986400	1261590		
123) Unknown123		11.43	4378050	77293		
124) Unknown124		12.97	15179900	232250		
125) Unknown125		14.17	2478160	31901		
126) Unknown126		15.26	3764760	70908		
127) Unknown127		16.09	25714100	495974		
128) Unknown128		16.44	2589510	58942		
129) Unknown129		17.33	14257500	278252		
130) Unknown130		17.47	38589300	661024		
131) Unknown131		18.15	45238600	1038330		
132) Unknown132		18.32	14694100	281319		
133) Unknown133		19.09	2276500	45238		
134) Unknown134		19.68	3210010	71365		
135) Unknown135		20.02	3760040	63819		
136) Unknown136		20.55	53530400	1256820		
137) Unknown137		21.54	5259780	93008		
138) Unknown138		22.17	106554000	1945880		
139) Unknown139		22.53	4800250	69476		
140) Unknown140		22.87	4499050	115540		
141) Unknown141		24.84	2778040	98293		
142) Unknown142		26.03	3157330	119048		
143) Unknown143		26.22	5428080	92592		
144) Unknown144		26.41	3315840	81080		
145) Unknown145		26.57	3101250	70394		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD1A.CH
Acq On : 6-7-01 8:18:55 PM
Sample : A555553 H1167
Misc :
IntFile : events.e

Vial: 16
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

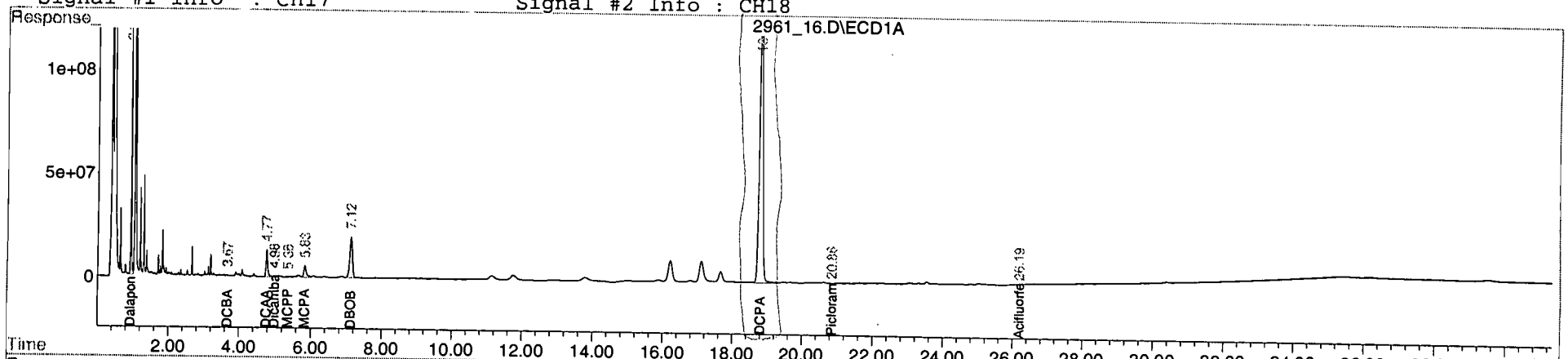
Data File : C:\HPCHEM\2\DATA\2961\2961_16.D\ECD2B.CH
Acq On : 6-7-01 9:06:02 PM
Sample : A555553 H1167
Misc :
IntFile : events2.e

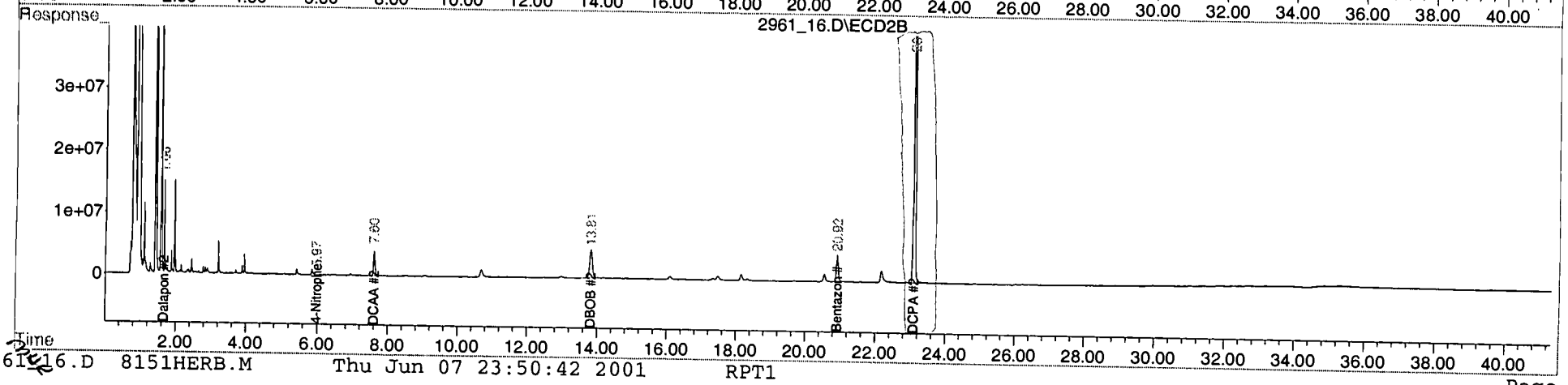
Vial: 16
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:50 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_17.D\ECD1A.CH Vial: 17
Acq On : 6-7-01 9:06:02 PM Operator: HP Demo
Sample : HEXANE Inst : Instr 324
Misc : INSTR BLANK Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_17.D\ECD2B.CH Vial: 17
Acq On : 6-7-01 9:52:59 PM Operator: HP Demo
Sample : HEXANE Inst : Instr 324
Misc : INSTR BLANK Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:51 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
System Monitoring Compounds							
4) S DCAA	0.00	0.00	0	0	N.D.	N.D.	
Spiked Amount 100.000			Recovery	=	0.00%	0.00%	
11) S DBOB	0.00	0.00	0	0	N.D.	N.D.	
Spiked Amount 20.000			Recovery	=	0.00%	0.00%	
Target Compounds							
1) T Dalapon	0.88	0.00	1227900	0	0.195	N.D.	#
2) T DCBA	0.00	0.00	0	0	N.D.	N.D.	
3) T 4-Nitrophenol	0.00	0.00	0	0	N.D.	N.D.	
5) T Dicamba	5.02	0.00	3590017	0	0.247	N.D.	#
6) T MCPP	0.00	0.00	0	0	N.D.	N.D.	
7) T MCPA	0.00	0.00	0	0	N.D.	N.D.	
8) T Dichloroprop	0.00	0.00	0	0	N.D.	N.D.	
9) T 2,4-D	0.00	0.00	0	0	N.D.	N.D.	
10) T PCP	7.38	0.00	246123	0	0.004	N.D.	#
12) T 2,4,5-TP (Silvex	0.00	0.00	0	0	N.D.	N.D.	
13) T Chloramben	0.00	0.00	0	0	N.D.	N.D.	
14) T 2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
15) T 2,4-DB	0.00	0.00	0	0	N.D.	N.D.	
16) T Picloram	0.00	0.00	0	0	N.D.	N.D.	
17) T Bentazon	0.00	0.00	0	0	N.D.	N.D.	
18) T Dinoseb	0.00	0.00	0	0	N.D.	N.D.	
19) T DCPA	18.82	0.00	8273288	0	0.248	N.D.	#
20) T Acifluorfen	26.21	0.00	29418463	0	1.093	N.D.	#

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	4.70	4645430	257072
2) Unknown 2	4.85	3569540	83827
3) Unknown 3	4.89	585938	47975
4) Unknown 4	5.61	3339730	55515
5) Unknown 5	8.10	3486230	15652
6) Unknown 6	8.12	217227	14162
7) Unknown 7	10.58	3971270	12688
8) Unknown 8	15.18	41159800	118800
9) Unknown 9	17.62	6712040	43400
10) Unknown 10	19.81	2964370	33869
11) Unknown 11	22.22	49023200	107951
12) Unknown 12	23.56	18167800	58916
13) Unknown 13	24.81	42066100	142801
14) Unknown 14	25.03	144695000	1232940
15) Unknown 15	26.62	22252800	76912
Second Signal			
16) Unknown 16	2.18	816697	93487

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_17.D\ECD1A.CH Vial: 17
Acq On : 6-7-01 9:06:02 PM Operator: HP Demo
Sample : HEXANE Inst : Instr 324
Misc : INSTR BLANK Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_17.D\ECD2B.CH Vial: 17
Acq On : 6-7-01 9:52:59 PM Operator: HP Demo
Sample : HEXANE Inst : Instr 324
Misc : INSTR BLANK Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:51 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
17) Unknown 17		2.27	790661	97442		
18) Unknown 18		2.52	534765	67105		
19) Unknown 19		6.14	1264380	55959		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantification Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_17.D\ECD1A.CH
Acq On : 6-7-01 9:06:02 PM
Sample : HEXANE
Misc : INSTR BLANK
IntFile : events.e

Vial: 17
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

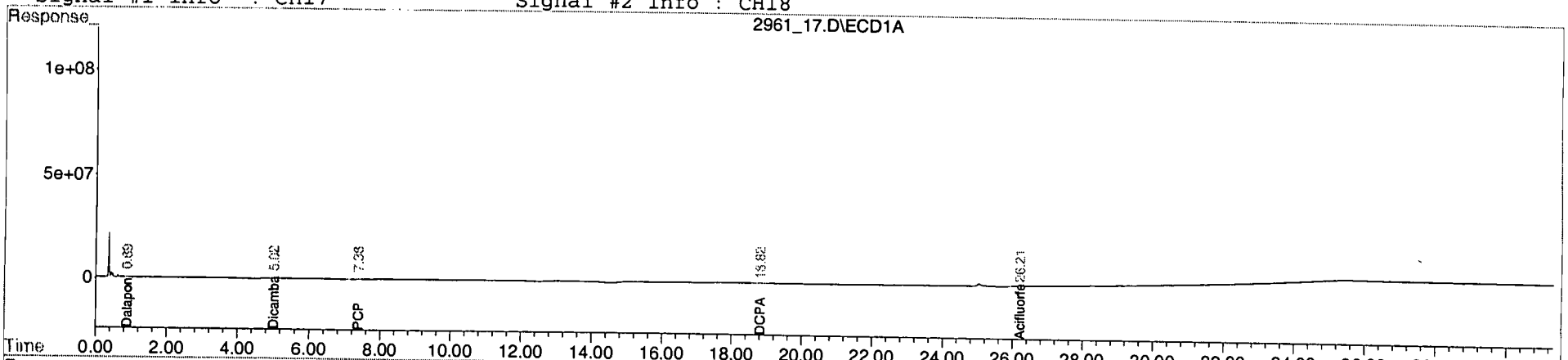
Data File : C:\HPCHEM\2\DATA\2961\2961_17.D\ECD2B.CH
Acq On : 6-7-01 9:52:59 PM
Sample : HEXANE
Misc : INSTR BLANK
IntFile : events2.e

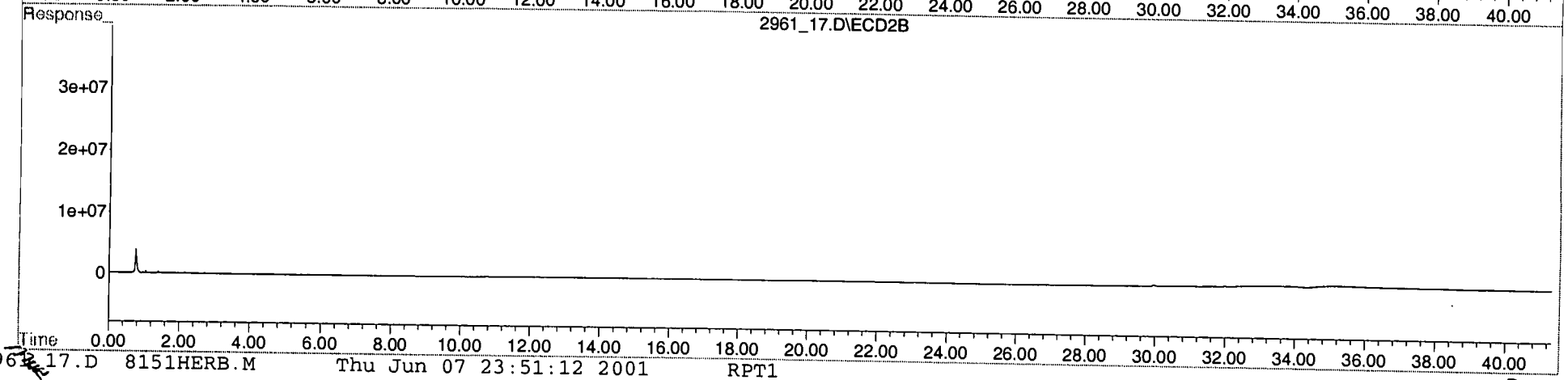
Vial: 17
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:51 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD1A.CH Vial: 18
Acq On : 6-7-01 9:52:59 PM Operator: HP Demo
Sample : MED T836 Inst : Instr 324
Misc : CCV Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD2B.CH Vial: 18
Acq On : 6-7-01 10:40:11 PM Operator: HP Demo
Sample : MED T836 Inst : Instr 324
Misc : CCV Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:51 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
4) S DCAA	4.76	7.60	433.5E6	137.0E6	98.140	95.833
Spiked Amount 100.000			Recovery	=	98.14%	95.83%
11) S DBOB	7.13	13.81	1119.2E6	263.4E6	18.636	18.345
Spiked Amount 20.000			Recovery	=	93.18%	91.72%
Target Compounds						
1) T Dalapon	0.93	1.66	2918.8E6	1067.8E6	463.776	464.440
2) T DCBA	3.63	5.56	2420.3E6	900.6E6	470.023	458.566
3) T 4-Nitrophenol	4.35	5.95	1082.9E6	299.6E6	460.507	446.040
5) T Dicamba	4.99	7.77	6681.1E6	2458.6E6	459.850	463.501
[illegible] T MCPP	5.35	8.64	538.2E6	173.2E6	46.695	45.802
[illegible] T MCPA	5.86	9.50	796.9E6	259.6E6	46.187	44.539
8) T Dichloroprop	6.51	10.92	2284.0E6	628.9E6	471.677	450.569
9) T 2,4-D	7.52	12.37	2611.7E6	705.4E6	444.314	447.063
10) T PCP	7.35	15.59	31836.9E6	9170.2E6	473.923	475.321
12) T 2,4,5-TP (Silvex	10.06	17.04	13761.8E6	3317.3E6	480.570	473.128
13) T Chloramben	14.48	17.57	9398.5E6	1777.2E6	476.581	453.857
14) T 2,4,5-T	12.45	18.42	12160.1E6	2619.0E6	479.273	464.807
15) T 2,4-DB	14.81	20.34	1594.6E6	265.5E6	507.435	468.658
16) T Picloram	20.84	22.43	12984.0E6	1798.8E6	455.878	442.111
17) T Bentazon	17.54	20.92	1575.1E6	302.6E6	457.246	457.424
18) T Dinoseb	17.03	20.71	9185.4E6	1787.6E6	468.938	460.045
19) T DCPA	18.80	23.09	15739.0E6	3268.7E6	472.338	476.462
20) T Acifluorfen	26.19	28.84	11476.5E6	1504.6E6	426.389	451.617

Non Target Peaks	R.T.	Area	Height
1) Unknown 1	1.20	324602000	30742800
2) Unknown 2	3.84	4566620	137749
3) Unknown 3	3.96	23147600	932425
4) Unknown 4	4.08	8650630	319680
5) Unknown 5	4.13	22225700	1125110
6) Unknown 6	4.57	206991000	9126150
7) Unknown 7	4.69	18679000	803670
8) Unknown 8	5.17	93074800	2373750
9) Unknown 9	5.99	90692700	2288770
10) Unknown 10	6.14	15511900	294962
11) Unknown 11	6.29	8116530	207668
12) Unknown 12	6.38	26181800	703546
13) Unknown 13	6.95	1142580000	24156900
[illegible] Unknown 14	7.65	276800000	4571250
[illegible] Unknown 15	8.10	147236000	1985330
16) Unknown 16	8.70	878394000	9598230
17) Unknown 17	9.26	86590800	689829
18) Unknown 18	10.80	75713800	577820

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD1A.CH
Acq On : 6-7-01 9:52:59 PM
Sample : MED T836
Misc : CCV
IntFile : events.e

Vial: 18
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD2B.CH
Acq On : 6-7-01 10:40:11 PM
Sample : MED T836
Misc : CCV
IntFile : events2.e

Vial: 18
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Quant Time: Jun 7 23:51 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17
Signal #2 Phase: DB-XLB
Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
19) Unknown 19		11.61	18807700	185232		
20) Unknown 20		13.82	13018400	135200		
21) Unknown 21		14.07	51496500	523124		
22) Unknown 22		15.59	127163000	931319		
23) Unknown 23		16.01	26569100	269544		
24) Unknown 24		16.24	49052200	454424		
25) Unknown 25		16.47	44805600	446455		
26) Unknown 26		17.88	409642000	5273760		
27) Unknown 27		19.59	163318000	1905270		
28) Unknown 28		20.07	405767000	5230410		
29) Unknown 29		20.50	3979220	64650		
30) Unknown 30		21.25	445358000	2322160		
31) Unknown 31		22.94	21342900	158356		
32) Unknown 32		23.65	7409510	71546		
33) Unknown 33		24.57	149185000	2080880		
34) Unknown 34		24.89	18451300	315854		
35) Unknown 35		25.00	74490600	508815		
36) Unknown 36		25.49	98977500	1710260		
37) Unknown 37		25.84	34427900	686884		
38) Unknown 38		25.97	18657300	316783		
39) Unknown 39		26.63	44432200	804697		
40) Unknown 40		26.70	42346100	840355		
41) Unknown 41		26.94	39200300	753854		
Second Signal						
42) Unknown 42		1.57	64742800	4807690		
43) Unknown 43		1.95	110594000	9571880		
44) Unknown 44		2.11	544080	48635		
45) Unknown 45		2.79	1152950	123122		
46) Unknown 46		5.88	5569680	216372		
47) Unknown 47		6.14	10820400	255910		
48) Unknown 48		8.20	58420000	1738710		
49) Unknown 49		8.76	5585060	175722		
50) Unknown 50		9.03	16087800	435631		
51) Unknown 51		9.89	33816100	573970		
52) Unknown 52		10.29	6141300	130978		
53) Unknown 53		11.20	3409640	62738		
54) Unknown 54		13.03	320226000	5046110		
55) Unknown 55		14.22	47982600	789358		
56) Unknown 56		14.96	4619450	74887		
57) Unknown 57		15.27	15499300	261583		
58) Unknown 58		15.42	19397900	432670		
59) Unknown 59		16.08	24706400	396784		
60) Unknown 60		16.32	10021300	126907		
61) Unknown 61		16.67	31071200	665605		
62) Unknown 62		16.86	6994480	147334		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD1A.CH Vial: 18
Acq On : 6-7-01 9:52:59 PM Operator: HP Demo
Sample : MED T836 Inst : Instr 324
Misc : CCV Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD2B.CH Vial: 18
Acq On : 6-7-01 10:40:11 PM Operator: HP Demo
Sample : MED T836 Inst : Instr 324
Misc : CCV Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 7 23:51 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Initial Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-XLB
Signal #1 Info : CH17 Signal #2 Info : CH18

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
63) Unknown 63		17.90	152341000	3563340		
64) Unknown 64		18.03	9860330	163338		
65) Unknown 65		18.86	22979600	269651		
66) Unknown 66		19.24	4967460	95796		
67) Unknown 67		19.76	6553910	98027		
68) Unknown 68		20.06	9528810	212251		
69) Unknown 69		21.54	62011700	1783040		
70) Unknown 70		21.76	6739460	136786		
71) Unknown 71		22.06	20915900	352358		
72) Unknown 72		22.24	30693600	768565		
73) Unknown 73		22.86	37132100	507279		
[illegible] Unknown 74		26.19	3265000	97533		
[illegible] Unknown 75		28.10	32220500	405087		
76) Unknown 76		29.27	5627150	137606		
77) Unknown 77		29.32	5938240	135040		

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD1A.CH
Acq On : 6-7-01 9:52:59 PM
Sample : MED T836
Misc : CCV
IntFile : events.e

Vial: 18
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\2961\2961_18.D\ECD2B.CH
Acq On : 6-7-01 10:40:11 PM
Sample : MED T836
Misc : CCV
IntFile : events2.e

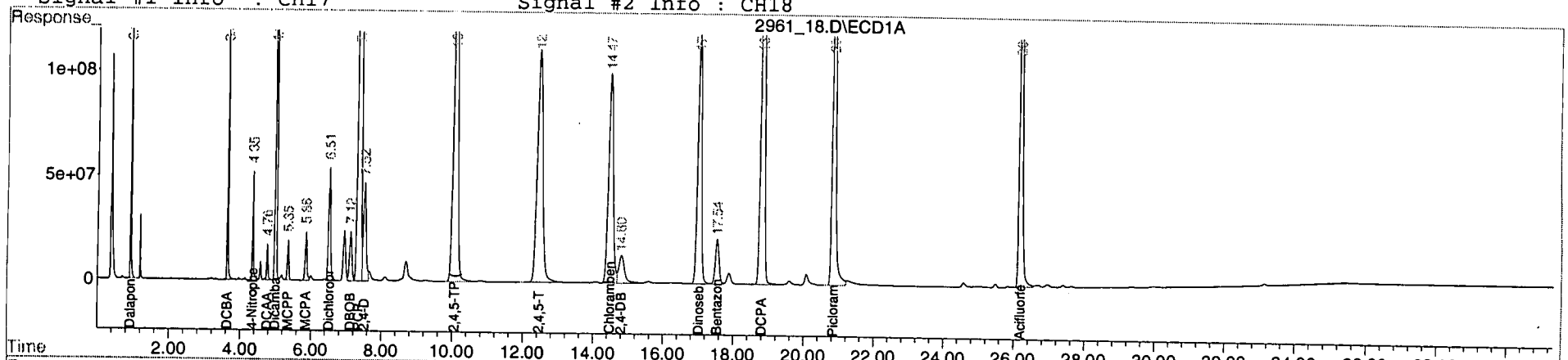
Vial: 18
Operator: HP Demo
Inst : Instr 324
Multiplr: 1.00

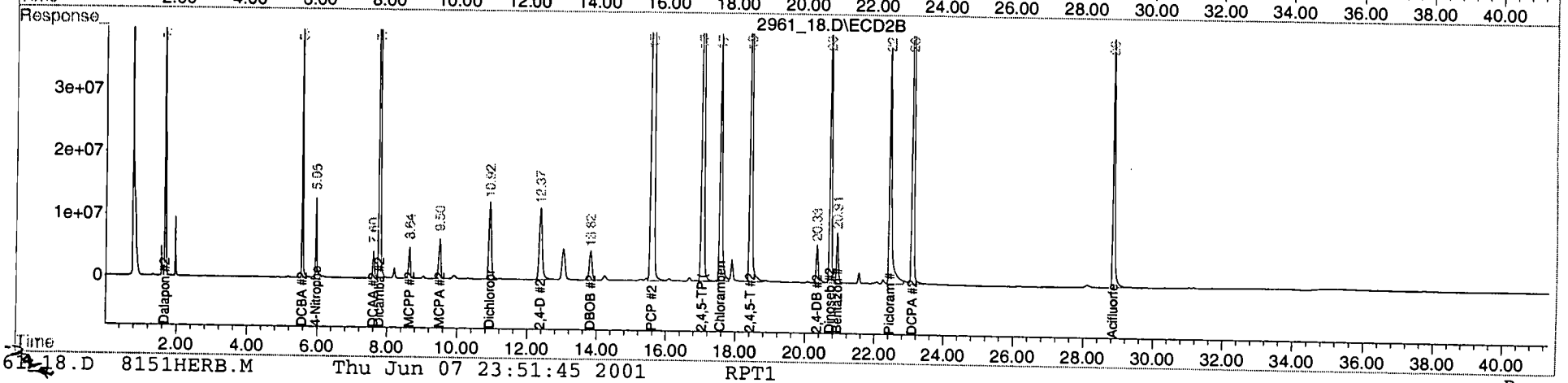
Quant Time: Jun 7 23:51 2001 Quant Results File: 8151HERB.RES

Quant Method : C:\HPCHEM\2\METHODS\8151HERB.M (Chemstation Integrator)
Title : 8151 HERBICIDE CALIBRATION
Last Update : Thu Jun 07 23:33:26 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151HERB.M

Volume Inj. : 1.0 uL
Signal #1 Phase : DB-1701
Signal #1 Info : CH17

Signal #2 Phase: DB-XLB
Signal #2 Info : CH18





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
A555261
DK27345
6/25/01

There were no QC problems encountered with the analysis of this sample..

Regina Shamp
GCMS Group Leader

Recycled Paper

GC/MS VOLATILE QC PACKAGE

IDEM

LAB # A555261
IDEM # DK27345 PACKAGE : **IDMR**

GCMS#9

04/26/01	FILE ID #
BFB TUNE [2929J]	FORM 5
BFB TUNE CHECK 04/26/01	2929J
INITIAL CALIBRATION DATE	FORM
INITIAL CALIBRATION [RAW DATA]	
VSTD005	2931J
VSTD010	2932J
VSTD020	2933J
VSTD040	2934J
VSTD001	2936J

06/07/01	
BFB TUNE [3269J]	FORM 5
INTERNAL STANDARD AREA SUMMARY [3270J]	FORM 8
WATER SURROGATE RECOVERY	FORM 2A
BFB TUNE CHECK 06/07/01	3269J
CALIBRATION CHECK STANDARD	3270J
METHOD BLANK	3271J
LCS [3272J]	FORM
LCS 06/07/01	3272J
A555261 DK27345	3274J
QUARTERLY QC CHECK STANDARD	2954J

GC/MS SEMI - VOLATILE QC PACKAGE

IDEM

LAB # A555261
IDEM # DK27345 PACKAGE : **IDMR**

GCMS#8

05/29/01	FILE ID #
DFTPP TUNE [4674H]	FORM 5
DFTPP TUNE CHECK 05/29/01	4674H
INITIAL CALIBRATION DATE	FORM
INITIAL CALIBRATION [RAW DATA]	
SSTD0.1	4676H
SSTD0.5	4677H
SSTD1.0	4678H
SSTD5.0	4679H
SSTD10	4680H
INITIAL CALIBRATION [RAW DATA BENZO(a)PYRENE ONLY	
SSTD0.02	4681H
SSTD2.0	4682H

5/29/01

DFTPP TUNE [4674H]	FORM 5
INTERNAL STANDARD AREA SUMMARY [4682H]	FORM 8
WATER SURROGATE RECOVERY	FORM 2C
DFTPP TUNE CHECK 5/29/01	4674H
CAL01 CHECK STANDARD	4682H
SAMPLE MS [4686H]	FORM
A554400 MATRIX SPIKE	4686H

6/07/01

DFTPP TUNE [4689H]	FORM 5
INTERNAL STANDARD AREA SUMMARY [4690H]	FORM 8
WATER SURROGATE RECOVERY	FORM 2C
DFTPP TUNE CHECK 6/07/01	4689H
CALIBRATION CHECK STANDARD	4690H
PREP METHOD BLANK #SVL2241-623	4691H
LCS #843 [4692H]	FORM
LCS #843 6/7/01	4692H
A555261 DK27345	4696H

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: _____ Contract: _____

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

Lab File ID: 2929J.D BFB Injection Date: 04/26/01

Instrument ID: GCMS#9 BFB Injection Time: 10:32

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	21.4
75	30.0 - 66.0% of mass 95	51.0
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	77.0
175	4.0 - 9.0% of mass 174	5.2 (6.8)1
176	93.0 - 101.0% of mass 174	74.5 (96.9)1
177	5.0 - 9.0% of mass 176	4.8 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

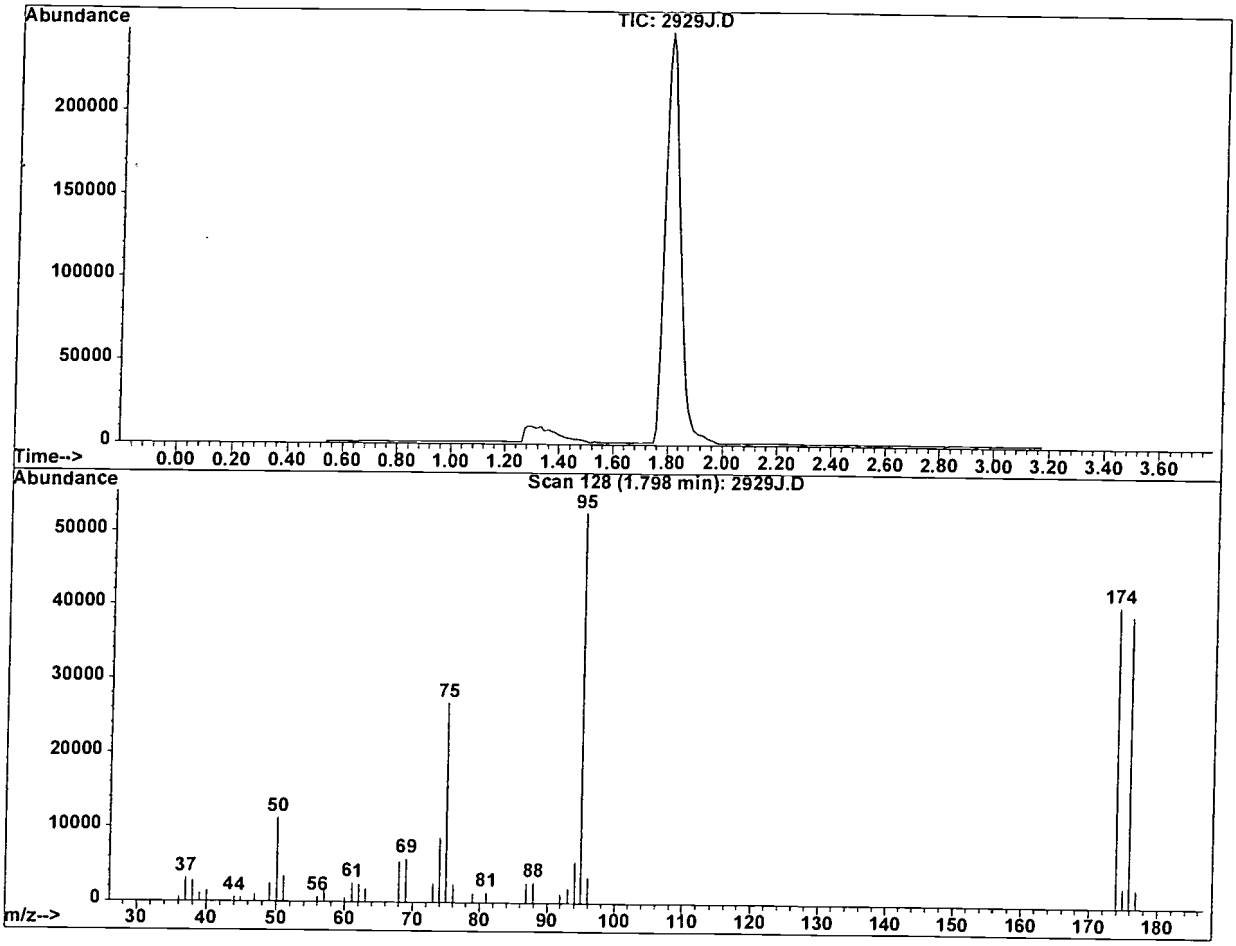
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05	DW STD05	2931J.D	04/26/01	11:23
02	VSTD010	DW STD010	2932J.D	04/26/01	11:55
03	VSTD020	DW STD020	2933J.D	04/26/01	12:28
04	VSTD0040	DW STD040	2934J.D	04/26/01	13:00
05	VSTD01	DW STD01	2936J.D	04/26/01	15:16

BFB

Data File : C:\J042601\2929J.D
Acq On : 26 Apr 01 10:32
Sample : BFB TUNE CHECK
Misc : 4/26/01
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00



Spectrum Information: Scan 128

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	11297	PASS
75	95	30	80	51.0	26864	PASS
95	95	100	100	100.0	52688	PASS
96	95	5	9	6.7	3523	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.0	40544	PASS
175	174	5	9	6.8	2753	PASS
176	174	95	101	96.9	39272	PASS
177	176	5	9	6.5	2546	PASS

2929J.D DWJ.M Thu Apr 26 10:36:28 2001 RPT1

Scan 128 (1.798 min): 2929J.D
BFB TUNE CHECK

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	571	56.00	735	76.05	2416	174.90	2753
36.95	3170	57.00	1646	78.95	1241	175.90	39272
37.95	2834	60.00	512	80.95	1407	176.90	2546
39.00	1148	61.05	2580	86.90	2685		
40.00	1455	62.05	2389	87.90	2760		
44.00	645	63.05	1812	91.95	1228		
44.90	615	68.00	5477	93.05	2011		
46.95	983	69.00	5859	94.05	5554		
49.05	2463	73.00	2528	94.95	52688		
50.05	11297	74.00	8729	95.95	3523		
51.05	3500	75.00	26864	173.90	40544		

Response Factor Report GCMS#9

Method : F:\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 =2936J.D 5 =2931J.D 10 =2932J.D
20 =2933J.D 40 =2934J.D

		Compound	1	5	10	20	40	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------						
2)	T	Dichlorodifluorometha	0.592	0.580	0.587	0.559	0.539	0.571	3.87
3)	T	Chloromethane	0.478	0.437	0.433	0.387	0.354	0.418	11.52
4)	T	Vinyl Chloride	0.466	0.436	0.460	0.419	0.395	0.435	6.66
5)	T	Bromomethane	0.304	0.258	0.260	0.332	0.314	0.294	11.35
6)	T	Chloroethane	0.327	0.316	0.295	0.327	0.301	0.313	4.72
7)	T	Trichlorofluoromethan	1.272	1.158	1.013	1.177	1.046	1.133	9.25
8)	T	1,1-Dichloroethene	0.640	0.589	0.483	0.583	0.501	0.559	11.76
9)		Acetone	0.012	0.019	0.014	0.016	0.016	0.015	18.75
10)	T	Methylene Chloride	0.389	0.392	0.386	0.416	0.371	0.391	4.08
11)	T	1,2-Dichloroethene(tr	0.705	0.631	0.561	0.645	0.573	0.623	9.37
12)	T	1,1-Dichloroethane	1.052	0.945	0.920	0.930	0.870	0.944	7.11
13)		MTBE	0.512	0.507	0.428	0.492	0.429	0.474	8.88
14)	T	2,2-Dichloropropane	1.385	1.059	1.036	1.059	1.014	1.111	13.92
15)	T	2-butanone	0.052	0.040	0.031	0.032	0.033	0.038	22.69
16)	T	1,2-Dichloroethene(ci	0.669	0.534	0.516	0.518	0.499	0.547	12.64
17)	T	Chloroform	0.992	0.895	0.927	0.956	0.997	0.953	4.56
18)		Tetrahydrofuran	0.012	0.023	0.018	0.020	0.016	0.018	23.86
19)	T	Bromochloromethane	0.175	0.163	0.167	0.172	0.180	0.171	3.82
20)	T	1,1,1-Trichloroethane	1.234	1.090	1.055	1.168	1.162	1.142	6.15
21)	S	1,2-Dichloroethane-d4	0.281	0.333	0.321	0.378	0.332	0.329	10.52
22)	I	1-CHLORO-2-BROMOPROPA	----------ISTD----------						
23)	T	1,1-Dichloropropene	0.599	0.543	0.667	0.718	0.764	0.658	13.48
24)	T	Carbon Tetrachloride	1.923	2.003	2.246	2.463	2.640	2.255	13.39
25)	T	1,2-Dichloroethane	0.533	0.632	0.739	0.768	0.816	0.697	16.33
26)	T	Benzene	2.834	3.119	3.796	3.764	4.074	3.517	14.74
27)	T	Trichloroethene	1.230	1.454	1.663	1.703	1.708	1.552	13.40
28)	T	1,2-Dichloropropane	0.399	0.431	0.507	0.511	0.515	0.473	11.38
29)	T	Bromodichloromethane	1.441	1.499	1.596	1.651	1.697	1.577	6.72
30)	T	Dibromomethane	0.318	0.407	0.458	0.480	0.482	0.429	16.06
31)	T	cis-1,3-Dichloroprope	1.182	1.380	1.249	1.409	1.572	1.359	11.14
32)		4-methyl-2-pentanone	0.242	0.234	0.212	0.265	0.276	0.246	10.29
33)	S	Toluene-d8	3.382	3.910	4.250	4.754	4.882	4.236	14.56
34)	T	Toluene	4.736	4.418	4.931	4.958	5.379	4.884	7.17
35)		2-hexanone	0.117	0.145	0.142	0.140	0.141	0.137	8.06
36)	T	trans-1,3-Dichloropro	0.824	0.913	0.817	0.917	0.888	0.872	5.54
37)	T	1,1,2-Trichloroethane	0.482	0.525	0.534	0.497	0.523	0.512	4.22
38)	T	1,3-Dichloropropane	0.699	0.880	1.037	0.889	0.911	0.883	13.67
39)	T	Tetrachloroethene	2.113	2.265	2.637	2.498	2.530	2.409	8.87
40)	T	Dibromochloromethane	0.651	0.787	0.916	0.961	0.940	0.851	15.37
41)	T	1,2-Dibromomethane	0.487	0.544	0.637	0.682	0.624	0.595	13.14
42)	T	Chlorobenzene	2.328	2.521	2.945	2.919	3.223	2.787	12.86
43)	T	1,1,1,2-Tetrachloroet	0.922	1.023	1.203	1.228	1.339	1.143	14.66
44)	T	Ethyl Benzene	1.452	1.557	1.826	1.906	2.007	1.750	13.46
45)	T	m,p-Xylene	1.839	1.941	2.248	2.364	2.484	2.175	12.67
46)	T	o-Xylene	1.623	1.688	1.808	2.032	2.020	1.834	10.20
47)	T	Styrene	2.305	2.464	2.627	2.997	3.008	2.680	11.77
48)	T	Bromoform	0.428	0.530	0.542	0.626	0.627	0.550	14.92

49)	T	Isopropylbenzene	5.688	6.225	6.296	7.129	6.848	6.437	8.77
50)	T	1,1,2,2-Tetrachloroet	0.539	0.609	0.603	0.651	0.605	0.601	6.67
51)	S	4-Bromofluorobenzene	1.487	2.031	1.942	2.275	2.028	1.953	14.77
52)	T	1,2,3-Trichloropropan	0.369	0.405	0.389	0.408	0.394	0.393	3.91
53)	T	n-Propylbenzene	0.858	0.817	0.904	1.039	0.928	0.909	9.24
54)	T	Bromobenzene	2.123	2.556	2.295	2.713	2.433	2.424	9.42
55)	T	1,3,5-Trimethylbenzen	5.101	4.091	4.738	4.605	5.254	4.758	9.58
56)	T	2-Chlorotoluene	1.271	1.172	1.222	1.394	1.374	1.287	7.43
57)	T	4-Chlorotoluene	1.321	1.035	1.179	1.260	1.306	1.220	9.61
58)	T	t-Butylbenzene	5.146	5.021	5.196	5.125	5.921	5.282	6.87
59)	T	1,2,4-Trimethylbenzen	4.671	4.007	4.316	4.239	4.928	4.432	8.26
60)	T	sec-Butylbenzene	8.534	6.953	7.764	7.816	8.610	7.935	8.50
61)	T	p-Isopropyltoluene	6.284	5.287	6.031	6.095	6.645	6.068	8.21
62)	T	1,3-Dichlorobenzene	2.500	2.338	2.485	2.567	2.753	2.529	5.97
63)	T	1,4-Dichlorobenzene	2.348	2.114	2.349	2.402	2.571	2.357	6.95
64)	T	n-Butylbenzene	3.708	3.449	3.736	3.761	3.886	3.708	4.32
65)	T	1,2-Dichlorobenzene	1.780	1.772	1.766	1.874	1.984	1.835	5.12
66)	T	1,2-Dibromochloroprop	0.100	0.105	0.133	0.132	0.156	0.125	18.40
67)	T	1,2,4-Trichlorobenzen	1.385	1.097	1.429	1.513	1.694	1.424	15.28
68)	T	Hexachlorobutadiene	2.069	1.724	1.977	2.242	2.494	2.101	13.74
69)	T	Naphthalene	0.725	0.584	0.755	0.862	0.907	0.767	16.50
70)	T	1,2,3-Trichlorobenzen	0.938	0.685	0.920	1.104	1.098	0.949	18.01

(#) = Out of Range

DWJ.M Fri Apr 27 06:08:23 2001

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2931J.D
Acq On : 26 Apr 01 11:23
Sample : DW STD05
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 13:56 19101

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	6.35	96	1446980	10.00 UG/L	0.03
22) 1-CHLORO-2-BROMOPROPANE	9.83	77	766623m	10.00 UG/L	0.02
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.81	65	120422	2.37 UG/L	0.00
Spiked Amount 5.000			Recovery	= 47.40%	
33) Toluene-d8	9.12	98	749408	2.92 UG/L	0.03
Spiked Amount 5.000			Recovery	= 58.40%	
51) 4-Bromofluorobenzene	15.10	95	389230	3.00 UG/L	0.00
Spiked Amount 5.000			Recovery	= 60.00%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	419298m	5.06 UG/L	100
3) Chloromethane	1.76	50	315957	7.58 UG/L	100
4) Vinyl Chloride	1.84	62	315153m	6.15 UG/L	100
5) Bromomethane	2.11	94	186564m	3.25 UG/L	85
6) Chloroethane	2.20	64	228941m	6.09 UG/L	96
7) Trichlorofluoromethane	2.42	101	837634	5.30 UG/L	100
8) 1,1-Dichloroethene	2.87	96	426333	5.96 UG/L	92
9) Acetone	2.88	43	27784m	6.88 UG/L	100
10) Methylene Chloride	3.31	84	283550m	5.27 UG/L	88
11) 1,2-Dichloroethene(trans)	3.59	96	456635	5.65 UG/L	98
12) 1,1-Dichloroethane	4.03	63	684055	5.18 UG/L	100
13) MTBE	3.60	73	734021	13.42 UG/L	100
14) 2,2-Dichloropropane	4.73	77	766388	4.93 UG/L	100
15) 2-butanone	4.78	43	57980m	11.41 UG/L	100
16) 1,2-Dichloroethene(cis)	4.72	96	386703	5.17 UG/L	89
17) Chloroform	5.13	83	647498	4.41 UG/L	99
18) Tetrahydrofuran	3.62	42	33246m	9.78 UG/L	100
19) Bromochloromethane	5.04	128	118017m	4.48 UG/L	1
20) 1,1,1-Trichloroethane	5.39	97	788803	4.40 UG/L	99
23) 1,1-Dichloropropene	5.63	110	208277	4.63 UG/L	100
24) Carbon Tetrachloride	5.63	117	767908	4.33 UG/L	98
25) 1,2-Dichloroethane	5.92	62	242115	4.36 UG/L	99
26) Benzene	5.91	78	1195418	5.16 UG/L	100
27) Trichloroethene	6.92	130	557195	5.13 UG/L	99
28) 1,2-Dichloropropane	7.26	76	165240	5.01 UG/L	100
29) Bromodichloromethane	7.73	83	574422	5.24 UG/L	100
30) Dibromomethane	7.46	93	156165	5.15 UG/L	88
31) cis-1,3-Dichloropropene	8.57	75	529104	6.09 UG/L	100
32) 4-methyl-2-pentanone	8.90	43	179064	10.38 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2931J.D
Acq On : 26 Apr 01 11:23
Sample : DW STD05
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 13:56 19101

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	9.23	91	1693642	5.53 UG/L	100
35) 2-hexanone	10.63	43	110808	11.67 UG/L #	100
36) trans-1,3-Dichloropropene	9.68	75	350020	6.04 UG/L	100
37) 1,1,2-Trichloroethane	10.04	97	201121	6.18 UG/L	97
38) 1,3-Dichloropropane	10.39	76	337135	5.70 UG/L	100
39) Tetrachloroethene	10.37	166	868160	5.45 UG/L	98
40) Dibromochloromethane	10.87	129	301795	5.33 UG/L	100
41) 1,2-Dibromomethane	11.09	107	208384	5.42 UG/L	98
42) Chlorobenzene	12.25	112	966428	5.29 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.45	131	392095	5.33 UG/L	100
44) Ethyl Benzene	12.56	106	596907	5.29 UG/L	98
45) m,p-Xylene	12.88	106	1487695	10.72 UG/L	96
46) o-Xylene	13.81	106	647038	5.29 UG/L	97
47) Styrene	13.85	104	944628	5.31 UG/L #	79
48) Bromoform	14.20	173	203037	5.73 UG/L	100
49) Isopropylbenzene	14.77	105	2386243	5.48 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.54	83	233264	6.39 UG/L	97
52) 1,2,3-Trichloropropane	15.59	75	155234	5.79 UG/L	70
53) n-Propylbenzene	15.82	92	313251	4.84 UG/L	96
54) Bromobenzene	15.41	77	979723	6.19 UG/L	95
55) 1,3,5-Trimethylbenzene	16.35	105	1568260	4.81 UG/L	100
56) 2-Chlorotoluene	15.98	126	449372	5.50 UG/L	100
57) 4-Chlorotoluene	16.28	126	396919	5.07 UG/L	100
58) t-Butylbenzene	17.16	119	1924510	5.15 UG/L	100
59) 1,2,4-Trimethylbenzene	17.30	105	1535745	4.94 UG/L	100
60) sec-Butylbenzene	17.77	105	2665264	4.98 UG/L	100
61) p-Isopropyltoluene	18.21	119	2026457	4.77 UG/L	100
62) 1,3-Dichlorobenzene	17.95	146	896088	5.73 UG/L	100
63) 1,4-Dichlorobenzene	18.21	146	810158	5.39 UG/L	100
64) n-Butylbenzene	19.32	92	1321883	5.32 UG/L	100
65) 1,2-Dichlorobenzene	19.17	146	679383	5.94 UG/L	100
66) 1,2-Dibromochloropropane	21.34	157	40296	5.62 UG/L	100
67) 1,2,4-Trichlorobenzene	23.69	180	420447	7.71 UG/L	100
68) Hexachlorobutadiene	24.23	225	660853m	5.30 UG/L	100
69) Naphthalene	24.26	128	223811m	9.75 UG/L	100
70) 1,2,3-Trichlorobenzene	24.87	180	262548m	12.67 UG/L	100

(#) = qualifier out of range (m) = manual integration

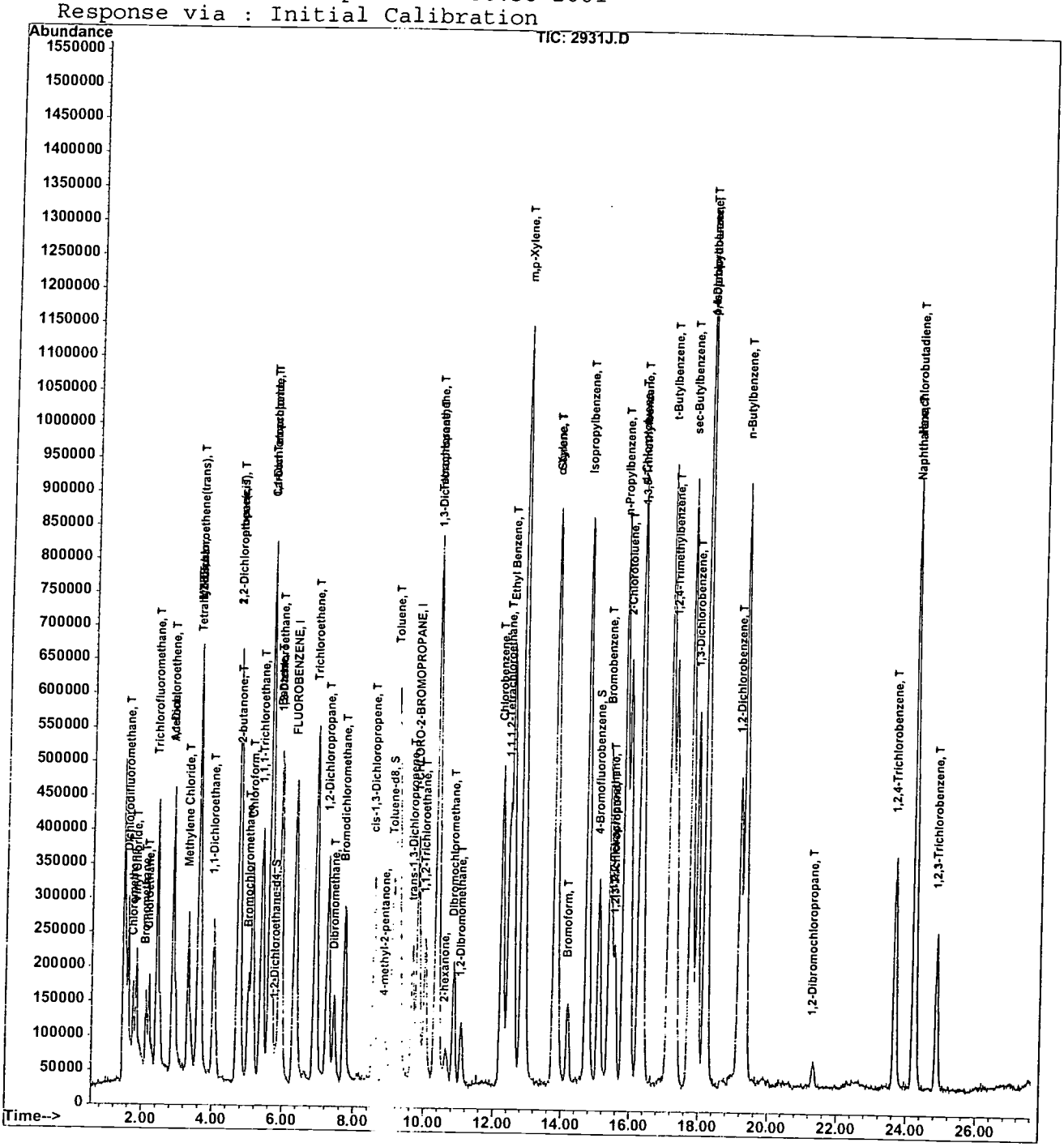
Quantitation Report

Data File : F:\J042601\2931J.D
Acq On : 26 Apr 01 11:23
Sample : DW STD05
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 13:56 19101

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : F:\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



8

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2932J.D
Acq On : 26 Apr 01 11:55
Sample : DW STD010
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 13:56 19101

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	6.34	96	1594579	10.00 UG/L	0.02
22) 1-CHLORO-2-BROMOPROPANE	9.85	77	717092	10.00 UG/L	0.04
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.81	65	256075	4.57 UG/L	0.00
Spiked Amount 5.000			Recovery	= 91.40%	
33) Toluene-d8	9.11	98	1523994	6.36 UG/L	0.02
Spiked Amount 5.000			Recovery	= 127.20%	
51) 4-Bromofluorobenzene	15.09	95	696131	5.74 UG/L	-0.01
Spiked Amount 5.000			Recovery	= 114.80%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	936263m	10.25 UG/L	100
3) Chloromethane	1.76	50	690301m	15.02 UG/L	100
4) Vinyl Chloride	1.85	62	733013m	12.97 UG/L	98
5) Bromomethane	2.12	94	414086m	6.54 UG/L	90
6) Chloroethane	2.20	64	470235m	11.35 UG/L	98
7) Trichlorofluoromethane	2.42	101	1614926	9.27 UG/L	100
8) 1,1-Dichloroethene	2.88	96	769447	9.76 UG/L	90
9) Acetone	2.89	43	44293	9.95 UG/L #	100
10) Methylene Chloride	3.32	84	616099m	10.39 UG/L	80
11) 1,2-Dichloroethene(trans)	3.59	96	894490	10.05 UG/L	99
12) 1,1-Dichloroethane	4.04	63	1466324	10.08 UG/L	100
13) MTBE	3.60	73	1364325	22.63 UG/L	100
14) 2,2-Dichloropropane	4.74	77	1652492	9.65 UG/L	100
15) 2-butanone	4.75	43	100321	17.91 UG/L #	100
16) 1,2-Dichloroethene(cis)	4.72	96	822557	9.98 UG/L	85
17) Chloroform	5.12	83	1477562	9.14 UG/L	100
18) Tetrahydrofuran	3.60	42	58372m	15.58 UG/L	100
19) Bromochloromethane	5.04	128	265679	9.16 UG/L	89
20) 1,1,1-Trichloroethane	5.39	97	1682896	8.51 UG/L	98
23) 1,1-Dichloropropene	5.63	110	478212	11.37 UG/L	100
24) Carbon Tetrachloride	5.64	117	1610794	9.71 UG/L	100
25) 1,2-Dichloroethane	5.93	62	529603	10.20 UG/L	100
26) Benzene	5.94	78	2721958	12.56 UG/L	100
27) Trichloroethene	6.92	130	1192801	11.74 UG/L	99
28) 1,2-Dichloropropane	7.26	76	363297	11.77 UG/L	100
29) Bromodichloromethane	7.74	83	1144348	11.17 UG/L	99
30) Dibromomethane	7.45	93	328590	11.59 UG/L	94
31) cis-1,3-Dichloropropene	8.57	75	895846	11.03 UG/L	100
32) 4-methyl-2-pentanone	8.89	43	304301	18.86 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2932J.D
Acq On : 26 Apr 01 11:55
Sample : DW STD010
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 13:56 19101

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	9.25	91	3536209	12.35 UG/L	100
35) 2-hexanone	10.63	43	203625	22.93 UG/L #	100
36) trans-1,3-Dichloropropene	9.68	75	586014	10.80 UG/L	100
37) 1,1,2-Trichloroethane	10.06	97	382781	12.58 UG/L	93
38) 1,3-Dichloropropane	10.39	76	743728	13.44 UG/L	100
39) Tetrachloroethene	10.38	166	1891179	12.69 UG/L	98
40) Dibromochloromethane	10.87	129	657206	12.41 UG/L	100
41) 1,2-Dibromomethane	11.09	107	456597	12.70 UG/L	97
42) Chlorobenzene	12.25	112	2111745	12.36 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.46	131	862333	12.53 UG/L	100
44) Ethyl Benzene	12.57	106	1309302	12.40 UG/L	91
45) m,p-Xylene	12.87	106	3223919	24.84 UG/L	97
46) o-Xylene	13.81	106	1296836	11.33 UG/L	100
47) Styrene	13.85	104	1883759	11.31 UG/L #	76
48) Bromoform	14.21	173	388399	11.72 UG/L	97
49) Isopropylbenzene	14.76	105	4515115	11.09 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.53	83	432304	12.67 UG/L	98
52) 1,2,3-Trichloropropane	15.59	75	278972m	11.13 UG/L	81
53) n-Propylbenzene	15.83	92	648415	10.71 UG/L	96
54) Bromobenzene	15.42	77	1645405	11.12 UG/L	98
55) 1,3,5-Trimethylbenzene	16.33	105	3397612	11.15 UG/L	100
56) 2-Chlorotoluene	15.98	126	876284	11.46 UG/L	100
57) 4-Chlorotoluene	16.28	126	845399	11.55 UG/L	100
58) t-Butylbenzene	17.17	119	3725694	10.66 UG/L	100
59) 1,2,4-Trimethylbenzene	17.31	105	3094845	10.63 UG/L	100
60) sec-Butylbenzene	17.77	105	5567718	11.12 UG/L	100
61) p-Isopropyltoluene	18.19	119	4324718	10.89 UG/L	100
62) 1,3-Dichlorobenzene	17.96	146	1781867m	12.17 UG/L	100
63) 1,4-Dichlorobenzene	18.21	146	1684502	11.99 UG/L	100
64) n-Butylbenzene	19.32	92	2679252	11.52 UG/L	99
65) 1,2-Dichlorobenzene	19.17	146	1266425	11.84 UG/L	100
66) 1,2-Dibromochloropropane	21.34	157	95273	14.21 UG/L	100
67) 1,2,4-Trichlorobenzene	23.68	180	1024538	20.09 UG/L	100
68) Hexachlorobutadiene	24.23	225	1417504	12.15 UG/L	100
69) Naphthalene	24.26	128	541147	25.19 UG/L	100
70) 1,2,3-Trichlorobenzene	24.88	180	659549	34.02 UG/L	100

(#) = qualifier out of range (m) = manual integration

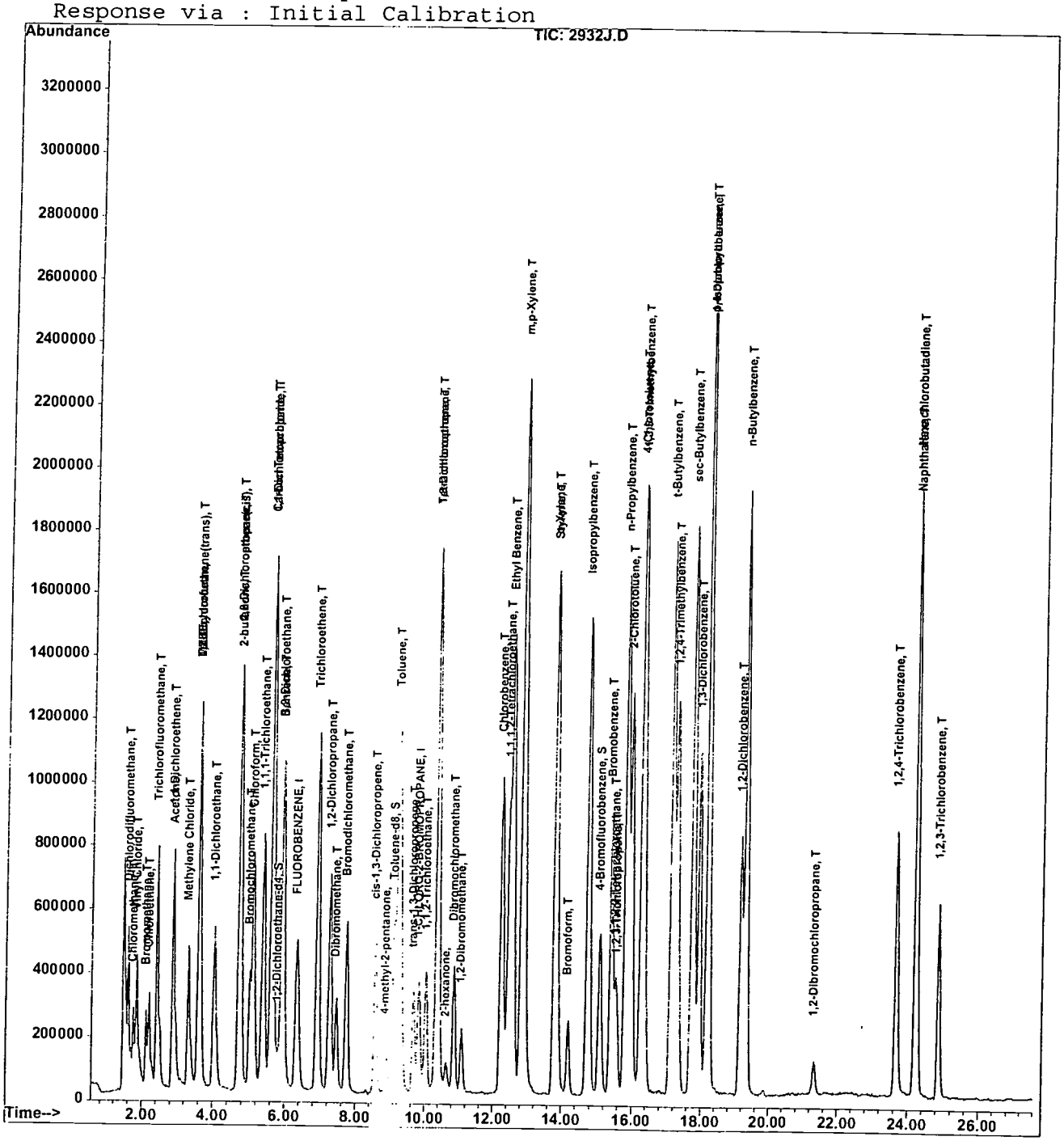
Quantitation Report

Data File : F:\J042601\2932J.D
Acq On : 26 Apr 01 11:55
Sample : DW STD010
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 13:56 19101

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : F:\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 : F:\J042601\2933J.D
Acq On : 26 Apr 01 12:28
Sample : DW STD020
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 14:01 19101

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	6.33	96	1279994	10.00 UG/L	0.01
22) 1-CHLORO-2-BROMOPROPANE	9.84	77	608375m	10.00 UG/L	0.03
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.81	65	484101	10.75 UG/L	0.00
Spiked Amount 5.000			Recovery	= 215.00%	
33) Toluene-d8	9.10	98	2892135	14.22 UG/L	0.01
Spiked Amount 5.000			Recovery	= 284.40%	
51) 4-Bromofluorobenzene	15.09	95	1384319	13.45 UG/L	-0.01
Spiked Amount 5.000			Recovery	= 269.00%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	1430484m	19.51 UG/L	100
3) Chloromethane	1.76	50	991520	26.87 UG/L	100
4) Vinyl Chloride	1.85	62	1073567m	23.66 UG/L	99
5) Bromomethane	2.12	94	850257m	16.72 UG/L	95
6) Chloroethane	2.19	64	836046m	25.15 UG/L	98
7) Trichlorofluoromethane	2.42	101	3012948	21.54 UG/L	99
8) 1,1-Dichloroethene	2.88	96	1493301	23.59 UG/L	91
9) Acetone	2.90	43	80957	22.66 UG/L #	100
10) Methylene Chloride	3.32	84	1063826	22.36 UG/L	78
11) 1,2-Dichloroethene(trans)	3.60	96	1650258	23.09 UG/L	97
12) 1,1-Dichloroethane	4.04	63	2380808	20.39 UG/L	100
13) MTBE	3.61	73	2517314	52.02 UG/L	100
14) 2,2-Dichloropropane	4.74	77	2711750	19.73 UG/L	100
15) 2-butanone	4.75	43	166369	37.00 UG/L #	100
16) 1,2-Dichloroethene(cis)	4.73	96	1326740	20.06 UG/L	88
17) Chloroform	5.12	83	2447332	18.85 UG/L	98
18) Tetrahydrofuran	3.61	42	100175m	33.30 UG/L	0
19) Bromochloromethane	5.02	128	439634	18.88 UG/L	99
20) 1,1,1-Trichloroethane	5.40	97	2988824	18.83 UG/L	98
23) 1,1-Dichloropropene	5.62	110	873377	24.48 UG/L	100
24) Carbon Tetrachloride	5.65	117	2997170	21.29 UG/L	99
25) 1,2-Dichloroethane	5.93	62	933880	21.21 UG/L	99
26) Benzene	5.93	78	4579883	24.90 UG/L	100
27) Trichloroethene	6.92	130	2072267	24.04 UG/L	99
28) 1,2-Dichloropropane	7.27	76	621767	23.75 UG/L	100
29) Bromodichloromethane	7.74	83	2008497	23.10 UG/L	100
30) Dibromomethane	7.46	93	584058	24.29 UG/L	92
31) cis-1,3-Dichloropropene	8.57	75	1713816	24.87 UG/L	100
32) 4-methyl-2-pentanone	8.90	43	644755	47.10 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2933J.D
Acq On : 26 Apr 01 12:28
Sample : DW STD020
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 14:01 19101

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	9.25	91	6032707	24.83 UG/L	100
35) 2-hexanone	10.65	43	339537	45.07 UG/L #	100
36) trans-1,3-Dichloropropene	9.68	75	1115807	24.25 UG/L	100
37) 1,1,2-Trichloroethane	10.04	97	604615	23.41 UG/L	94
38) 1,3-Dichloropropane	10.39	76	1081235	23.02 UG/L	100
39) Tetrachloroethene	10.36	166	3039151	24.04 UG/L	97
40) Dibromochloromethane	10.88	129	1169495	26.02 UG/L	100
41) 1,2-Dibromomethane	11.09	107	829430	27.19 UG/L	99
42) Chlorobenzene	12.25	112	3552046	24.51 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.46	131	1493639	25.57 UG/L	100
44) Ethyl Benzene	12.58	106	2319123	25.88 UG/L	97
45) m,p-Xylene	12.88	106	5752652	52.24 UG/L	97
46) o-Xylene	13.82	106	2472463	25.47 UG/L	100
47) Styrene	13.86	104	3647034	25.81 UG/L #	77
48) Bromoform	14.22	173	761441	27.09 UG/L	97
49) Isopropylbenzene	14.77	105	8673810	25.12 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.55	83	792012	27.35 UG/L	95
52) 1,2,3-Trichloropropane	15.60	75	496008	23.33 UG/L	72
53) n-Propylbenzene	15.83	92	1263774	24.61 UG/L	87
54) Bromobenzene	15.42	77	3300966	26.30 UG/L	99
55) 1,3,5-Trimethylbenzene	16.34	105	5602870	21.67 UG/L	100
56) 2-Chlorotoluene	15.99	126	1696066	26.14 UG/L	100
57) 4-Chlorotoluene	16.28	126	1533336	24.69 UG/L	100
58) t-Butylbenzene	17.17	119	6236000	21.03 UG/L	100
59) 1,2,4-Trimethylbenzene	17.31	105	5157442	20.89 UG/L	100
60) sec-Butylbenzene	17.77	105	9509964	22.39 UG/L	100
61) p-Isopropyltoluene	18.20	119	7416237	22.02 UG/L	100
62) 1,3-Dichlorobenzene	17.95	146	3123133	25.15 UG/L	100
63) 1,4-Dichlorobenzene	18.20	146	2922428	24.51 UG/L	100
64) n-Butylbenzene	19.33	92	4576723	23.20 UG/L	98
65) 1,2-Dichlorobenzene	19.18	146	2279727	25.11 UG/L	100
66) 1,2-Dibromochloropropane	21.34	157	160070	28.15 UG/L	100
67) 1,2,4-Trichlorobenzene	23.68	180	1841444	42.57 UG/L	100
68) Hexachlorobutadiene	24.23	225	2728526	27.56 UG/L	100
69) Naphthalene	24.26	128	1048922	57.55 UG/L	100
70) 1,2,3-Trichlorobenzene	24.88	180	1343203	81.67 UG/L	100

(#) = qualifier out of range (m) = manual integration

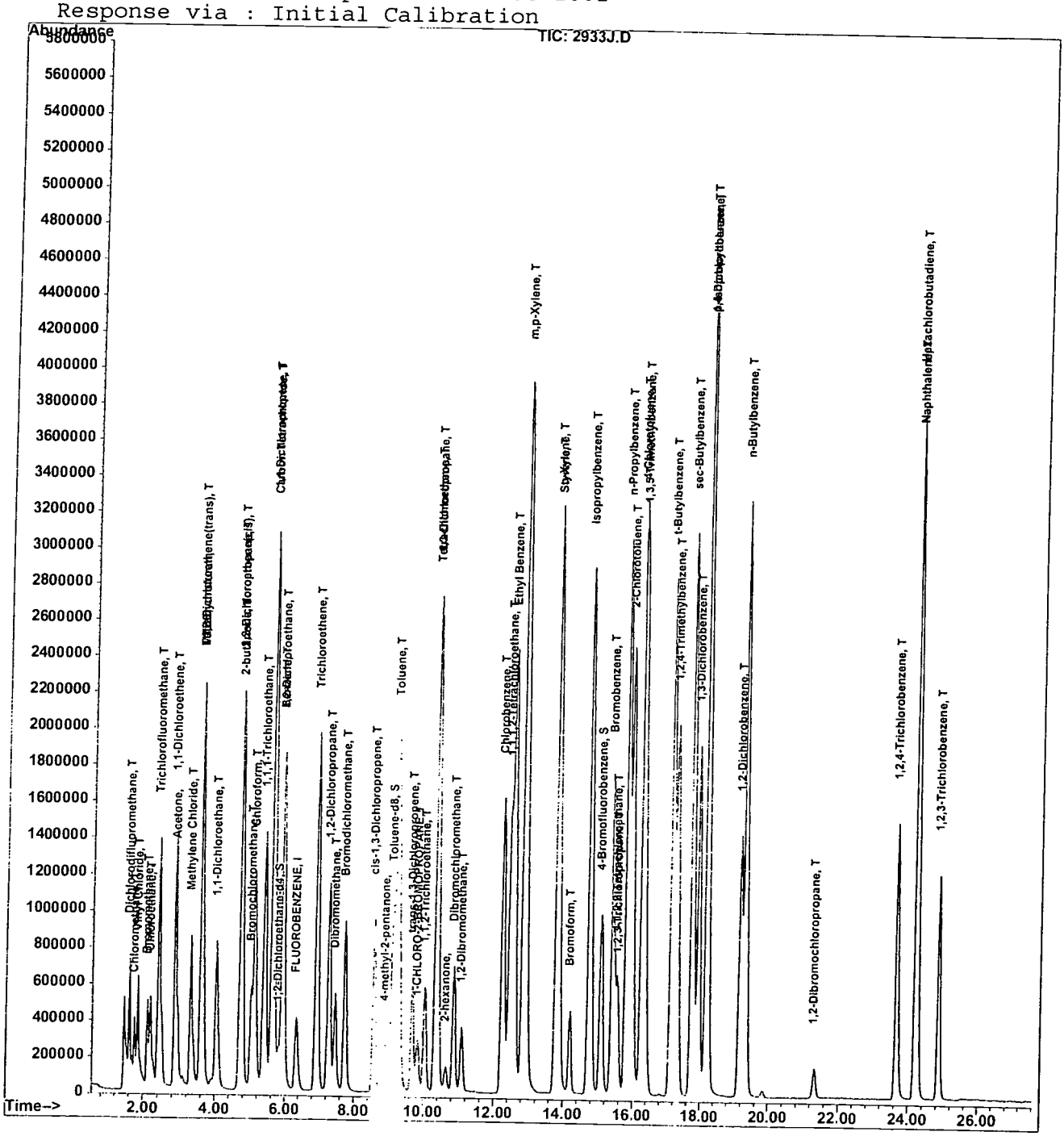
Quantitation Report

Data File : F:\J042601\2933J.D
Acq On : 26 Apr 01 12:28
Sample : DW STD020
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 14:01 19101

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : F:\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 : F:\J042601\2934J.D
Acq On : 26 Apr 01 13:00
Sample : DW STD040
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 14:00 19101

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	6.34	96	1429341	10.00 UG/L	0.02
22) 1-CHLORO-2-BROMOPROPANE	9.84	77	594495m	10.00 UG/L	0.03
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.81	65	948803	18.88 UG/L	0.00
Spiked Amount 5.000			Recovery	= 377.60%	
33) Toluene-d8	9.11	98	5804514	29.21 UG/L	0.02
Spiked Amount 5.000			Recovery	= 584.20%	
51) 4-Bromofluorobenzene	15.11	95	2411188	23.97 UG/L	0.00
Spiked Amount 5.000			Recovery	= 479.40%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	3080877m	37.63 UG/L	100
3) Chloromethane	1.77	50	2023037	49.10 UG/L	100
4) Vinyl Chloride	1.85	62	2260966m	44.63 UG/L	100
5) Bromomethane	2.11	94	1796004m	31.63 UG/L	58
6) Chloroethane	2.19	64	1719349	46.31 UG/L #	84
7) Trichlorofluoromethane	2.42	101	5978696	38.28 UG/L	100
8) 1,1-Dichloroethene	2.87	96	2862262	40.50 UG/L	90
9) Acetone	2.91	43	188403	47.23 UG/L #	100
10) Methylene Chloride	3.31	84	2123452m	39.97 UG/L	75
11) 1,2-Dichloroethene(trans)	3.60	96	3276819	41.06 UG/L	99
12) 1,1-Dichloroethane	4.04	63	4975847	38.17 UG/L	100
13) MTBE	3.61	73	4902095	90.71 UG/L	100
14) 2,2-Dichloropropane	4.73	77	5798084	37.78 UG/L	100
15) 2-butanone	4.74	43	371776	74.05 UG/L #	100
16) 1,2-Dichloroethene(cis)	4.72	96	2853199	38.63 UG/L	86
17) Chloroform	5.13	83	5700787	39.32 UG/L	99
18) Tetrahydrofuran	3.62	42	180160m	53.64 UG/L	100
19) Bromochloromethane	5.03	128	1027837	39.53 UG/L	98
20) 1,1,1-Trichloroethane	5.40	97	6646240	37.50 UG/L	98
23) 1,1-Dichloropropene	5.63	110	1817280	52.13 UG/L	100
24) Carbon Tetrachloride	5.64	117	6276736	45.64 UG/L	99
25) 1,2-Dichloroethane	5.93	62	1939339	45.08 UG/L	98
26) Benzene	5.92	78	9688263	53.90 UG/L	100
27) Trichloroethene	6.92	130	4060778	48.20 UG/L	98
28) 1,2-Dichloropropane	7.27	76	1225592	47.90 UG/L	100
29) Bromodichloromethane	7.75	83	4035109	47.49 UG/L	100
30) Dibromomethane	7.46	93	1146243	48.78 UG/L	92
31) cis-1,3-Dichloropropene	8.57	75	3738759	55.51 UG/L	100
32) 4-methyl-2-pentanone	8.91	43	1311577	98.06 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2934J.D
Acq On : 26 Apr 01 13:00
Sample : DW STD040
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 14:00 19101

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	9.24	91	12790389	53.88 UG/L	100
35) 2-hexanone	10.65	43	669832	91.00 UG/L #	100
36) trans-1,3-Dichloropropene	9.67	75	2112293	46.98 UG/L	100
37) 1,1,2-Trichloroethane	10.05	97	1244704	49.33 UG/L	95
38) 1,3-Dichloropropane	10.39	76	2165768	47.19 UG/L	100
39) Tetrachloroethene	10.37	166	6015845	48.71 UG/L	98
40) Dibromochloromethane	10.87	129	2235169	50.90 UG/L	100
41) 1,2-Dibromomethane	11.09	107	1484074	49.78 UG/L	98
42) Chlorobenzene	12.26	112	7663588	54.11 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.45	131	3184512	55.79 UG/L	100
44) Ethyl Benzene	12.57	106	4772469	54.50 UG/L	96
45) m,p-Xylene	12.88	106	11812693	109.77 UG/L	96
46) o-Xylene	13.83	106	4802433	50.62 UG/L	99
47) Styrene	13.86	104	7151869	51.80 UG/L #	78
48) Bromoform	14.21	173	1490511	54.27 UG/L	98
49) Isopropylbenzene	14.77	105	16284977	48.26 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.55	83	1438891	50.86 UG/L	96
52) 1,2,3-Trichloropropane	15.59	75	936551	45.08 UG/L	83
53) n-Propylbenzene	15.85	92	2206919	43.98 UG/L	97
54) Bromobenzene	15.42	77	5785382	47.17 UG/L	96
55) 1,3,5-Trimethylbenzene	16.36	105	12493137	49.44 UG/L	100
56) 2-Chlorotoluene	15.99	126	3266737	51.52 UG/L	100
57) 4-Chlorotoluene	16.29	126	3105164	51.18 UG/L	100
58) t-Butylbenzene	17.18	119	14079124	48.58 UG/L	100
59) 1,2,4-Trimethylbenzene	17.33	105	11719533	48.58 UG/L	100
60) sec-Butylbenzene	17.78	105	20473770	49.32 UG/L	100
61) p-Isopropyltoluene	18.22	119	15800747	48.00 UG/L	100
62) 1,3-Dichlorobenzene	17.97	146	6547576	53.96 UG/L	100
63) 1,4-Dichlorobenzene	18.21	146	6114282	52.48 UG/L	100
64) n-Butylbenzene	19.32	92	9240284	47.94 UG/L	98
65) 1,2-Dichlorobenzene	19.18	146	4717719	53.18 UG/L	100
66) 1,2-Dibromochloropropane	21.34	157	372123	66.97 UG/L	100
67) 1,2,4-Trichlorobenzene	23.69	180	4027829	95.29 UG/L	100
68) Hexachlorobutadiene	24.24	225	5931619	61.31 UG/L	100
69) Naphthalene	24.26	128	2156023	121.06 UG/L	100
70) 1,2,3-Trichlorobenzene	24.88	180	2610420	162.43 UG/L	100

(#) = qualifier out of range (m) = manual integration

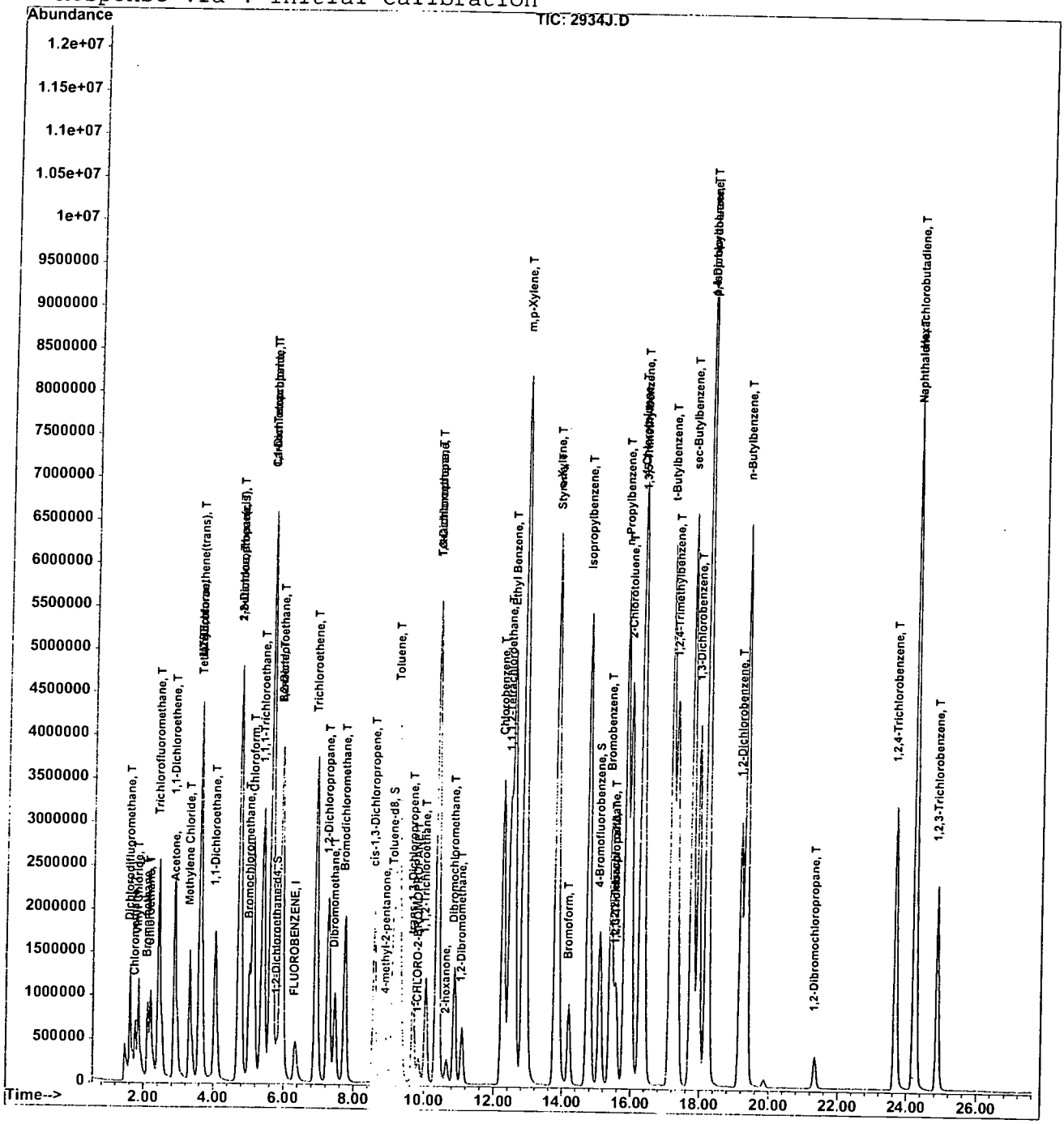
Quantitation Report

Data File : F:\J042601\2934J.D
Acq On : 26 Apr 01 13:00
Sample : DW STD040
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 26 14:00 19101

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : F:\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



2934J.D DWJ.M Fri Apr 27 06:11:09 2001 RPT01 Page 3

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2936J.D
Acq On : 26 Apr 01 15:16
Sample : DW STD01
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 27 6:07 19101

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	6.34	96	1114069	10.00 UG/L	0.02
22) 1-CHLORO-2-BROMOPROPANE	9.84	77	625866	10.00 UG/L	0.03
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.81	65	15661m	0.40 UG/L	0.00
Spiked Amount 5.000			Recovery	= 8.00%	
33) Toluene-d8	9.12	98	105822	0.51 UG/L	0.03
Spiked Amount 5.000			Recovery	= 10.20%	
51) 4-Bromofluorobenzene	15.12	95	46546m	0.44 UG/L	0.00
Spiked Amount 5.000			Recovery	= 8.80%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	65948m	1.03 UG/L	100
3) Chloromethane	1.76	50	53280m	1.66 UG/L	100
4) Vinyl Chloride	1.84	62	51876m	1.31 UG/L	93
5) Bromomethane	2.12	94	33839m	0.76 UG/L	92
6) Chloroethane	2.20	64	36439m	1.26 UG/L	95
7) Trichlorofluoromethane	2.42	101	141697m	1.16 UG/L	92
8) 1,1-Dichloroethene	2.87	96	71275m	1.29 UG/L	91
9) Acetone	2.87	43	2563	0.82 UG/L #	100
10) Methylene Chloride	3.31	84	43288	1.05 UG/L #	72
11) 1,2-Dichloroethene(trans)	3.59	96	78557	1.26 UG/L	96
12) 1,1-Dichloroethane	4.04	63	117250	1.15 UG/L	100
13) MTBE	3.60	73	114146	2.71 UG/L	100
14) 2,2-Dichloropropane	4.74	77	154348	1.29 UG/L	100
15) 2-butanone	4.75	43	11495	2.94 UG/L #	100
16) 1,2-Dichloroethene(cis)	4.72	96	74535	1.29 UG/L	80
17) Chloroform	5.14	83	110539	0.98 UG/L	100
18) Tetrahydrofuran	3.40	42	2614	1.00 UG/L	100
19) Bromochloromethane	5.03	128	19447	0.96 UG/L #	50
20) 1,1,1-Trichloroethane	5.39	97	137490	1.00 UG/L	100
23) 1,1-Dichloropropene	5.65	110	37520	1.02 UG/L	100
24) Carbon Tetrachloride	5.64	117	120368	0.83 UG/L	96
25) 1,2-Dichloroethane	5.92	62	33372	0.74 UG/L #	67
26) Benzene	5.93	78	177350	0.94 UG/L	100
27) Trichloroethene	6.92	130	76973	0.87 UG/L	97
28) 1,2-Dichloropropane	7.27	76	24982	0.93 UG/L	100
29) Bromodichloromethane	7.74	83	90172	1.01 UG/L	98
30) Dibromomethane	7.46	93	19918	0.81 UG/L #	68
31) cis-1,3-Dichloropropene	8.59	75	73992m	1.04 UG/L	100
32) 4-methyl-2-pentanone	8.90	43	30339m	2.15 UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\J042601\2936J.D
Acq On : 26 Apr 01 15:16
Sample : DW STD01
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 27 6:07 19101

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	9.24	91	296381	1.19 UG/L	100
35) 2-hexanone	10.66	43	14696m	1.90 UG/L	100
36) trans-1,3-Dichloropropene	9.69	75	51548	1.09 UG/L	100
37) 1,1,2-Trichloroethane	10.05	97	30196	1.14 UG/L	97
38) 1,3-Dichloropropane	10.38	76	43778m	0.91 UG/L	100
39) Tetrachloroethene	10.37	166	132271	1.02 UG/L	99
40) Dibromochloromethane	10.87	129	40739	0.88 UG/L	100
41) 1,2-Dibromomethane	11.08	107	30472m	0.97 UG/L	67
42) Chlorobenzene	12.26	112	145671	0.98 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.46	131	57718	0.96 UG/L	100
44) Ethyl Benzene	12.56	106	90907	0.99 UG/L	92
45) m,p-Xylene	12.88	106	230256	2.03 UG/L	99
46) o-Xylene	13.81	106	101596	1.02 UG/L	98
47) Styrene	13.86	104	144267	0.99 UG/L #	77
48) Bromoform	14.21	173	26797	0.93 UG/L	99
49) Isopropylbenzene	14.77	105	355969	1.00 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.53	83	33722m	1.13 UG/L	78
52) 1,2,3-Trichloropropane	15.59	75	23102	1.06 UG/L #	65
53) n-Propylbenzene	15.83	92	53700	1.02 UG/L	62
54) Bromobenzene	15.43	77	132854	1.03 UG/L #	81
55) 1,3,5-Trimethylbenzene	16.33	105	319267	1.20 UG/L	100
56) 2-Chlorotoluene	15.98	126	79572	1.19 UG/L	100
57) 4-Chlorotoluene	16.28	126	82707	1.29 UG/L	100
58) t-Butylbenzene	17.18	119	322066	1.06 UG/L	100
59) 1,2,4-Trimethylbenzene	17.31	105	292363	1.15 UG/L	100
60) sec-Butylbenzene	17.76	105	534103	1.22 UG/L	100
61) p-Isopropyltoluene	18.22	119	393306	1.13 UG/L	100
62) 1,3-Dichlorobenzene	17.96	146	156497	1.23 UG/L	100
63) 1,4-Dichlorobenzene	18.20	146	146951	1.20 UG/L	100
64) n-Butylbenzene	19.33	92	232097	1.14 UG/L	97
65) 1,2-Dichlorobenzene	19.19	146	111424	1.19 UG/L	100
66) 1,2-Dibromochloropropane	21.35	157	6250	1.07 UG/L	100
67) 1,2,4-Trichlorobenzene	23.70	180	86677	1.95 UG/L	100
68) Hexachlorobutadiene	24.26	225	129511	1.27 UG/L	100
69) Naphthalene	24.26	128	45402	2.42 UG/L	100
70) 1,2,3-Trichlorobenzene	24.91	180	58675	3.47 UG/L	100

(#) = qualifier out of range (m) = manual integration

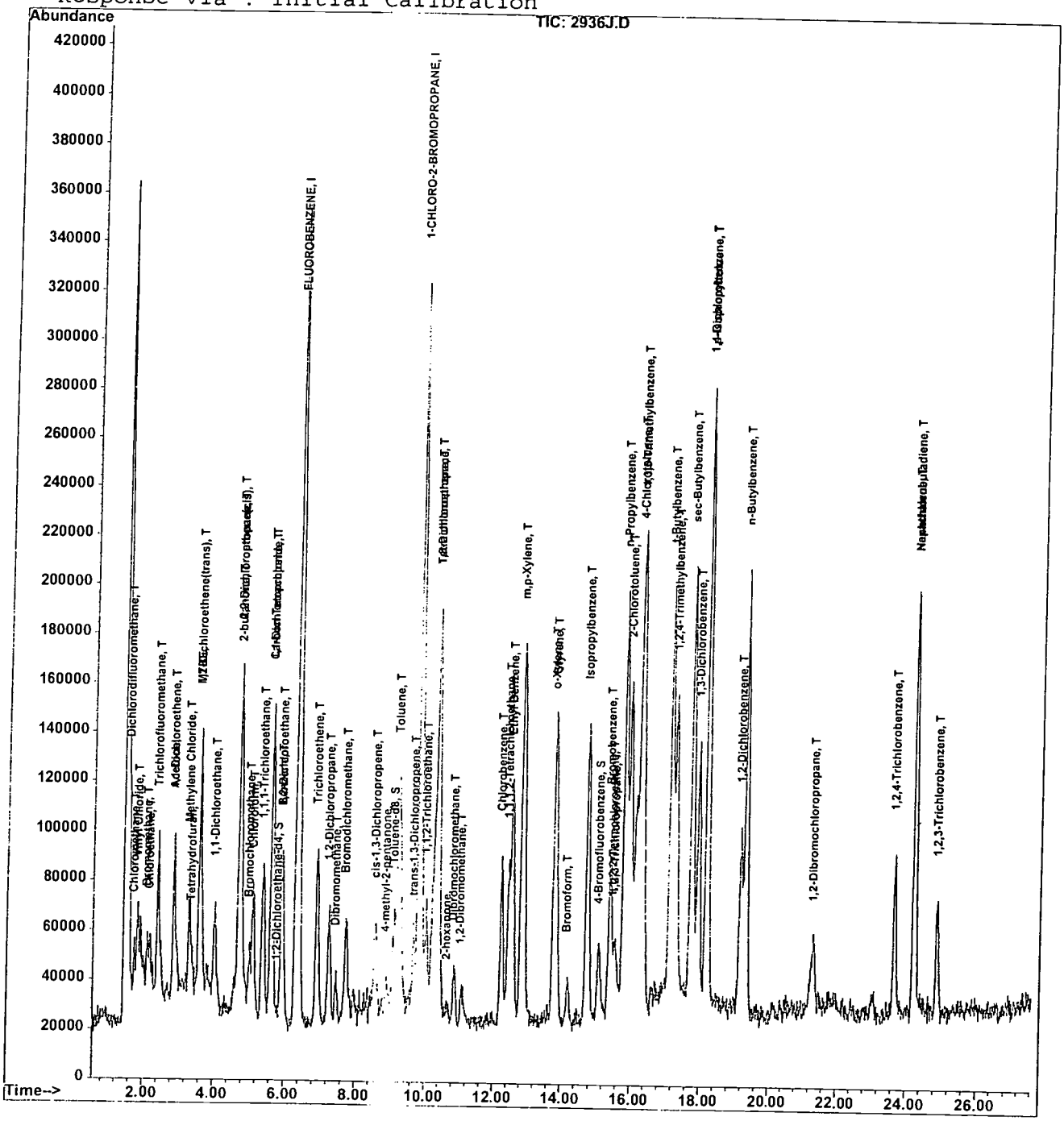
Quantitation Report

Data File : F:\J042601\2936J.D
Acq On : 26 Apr 01 15:16
Sample : DW STD01
Misc : 4/26/01
MS Integration Params: rteint.p
Quant Time: Apr 27 6:07 19101

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : F:\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: 3269J.D BFB Injection Date: 06/07/01

Instrument ID: GCMS#9 BFB Injection Time: 05:57

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	22.9
75	30.0 - 66.0% of mass 95	50.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.5
175	4.0 - 9.0% of mass 174	4.8 (7.3)1
176	93.0 - 101.0% of mass 174	65.3 (98.2)1
177	5.0 - 9.0% of mass 176	4.1 (6.3)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	3270J.D	06/07/01	06:15
02	DW BLANK01	DW BLANK	3271J.D	06/07/01	07:14
03	DI MS	DI MS	3272J.D	06/07/01	08:10
04	A554928	A554928 1:2 REP1	3273J.D	06/07/01	08:54
05	A555261	A555261 DK27345	3274J.D	06/07/01	09:26
06	A555555	A555555 TRIP	3275J.D	06/07/01	09:58
07	A555552	A555552 DK27341	3276J.D	06/07/01	10:31
08	A555553	A555553 DK27342	3277J.D	06/07/01	11:03
09	A554976	A554976	3278J.D	06/07/01	11:35
10	A554979	A554979	3279J.D	06/07/01	12:07
11	A554984	A554984	3280J.D	06/07/01	12:40
12	A554985	A554985	3281J.D	06/07/01	13:12
13	A555553	A555553 DK27342	3282J.D	06/07/01	13:44
14	A555552	A555552 DK27341	3283J.D	06/07/01	14:16

✓
LAS
6-12-1

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

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

Lab File ID (Standard): 3270J.D Date Analyzed: 06/07/01

Instrument ID: GCMS#9 Time Analyzed: 06:15

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 AREA #	RT #	AREA #	RT #
	12 HOUR STD	1312274	6.34	616214	9.86		
	UPPER LIMIT	2624548	6.84	1232428	10.36		
	LOWER LIMIT	656137	5.84	308107	9.36		
	EPA SAMPLE NO.						
01	DW BLANK01	1241613	6.35	449290	9.85		
02	DI MS	1125631	6.33	460564	9.85		
03	A554928	1096681	6.35	438983	9.85		
04	A555261	839679	6.36	429701	9.85		
05	A555555	883322	6.36	458180	9.85		
06	A555552	915697	6.35	429897	9.84		
07	A555553	895451	6.36	425362	9.86		
08	A554976	930791	6.34	452930	9.86		
09	A554979	966776	6.35	400380	9.86		
10	A554984	863760	6.35	374000	9.84		
11	A554985	813906	6.35	424435	9.85		
12	A555553	881426	6.35	412707	9.86		
13	A555552	912624	6.34	392150	9.84		

IS1 = FLUOROBENZENE

IS2 = 1-CHLORO-2-BROMOPROPANE

✓ 4R3 6-12-1

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: 07-Jun-01 Instrument: GCMS#9

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	DW BLANK01	80	93	112	0
02	DI MS	92	92	107	0
03	A554928	71*	93	83	1
04	A555261	81	84	92	0
05	A555555	85	84	80	0
06	A555552	LAS 6-12-1 ~~81~~ 78*	LAS 6-12-1 ~~89~~ 82	LAS 6-12-1 ~~79~~ 73*	1
07	A555553	77*	85	71*	2
08	A554976	79*	82	82	1
09	A554979	82	84	81	0
10	A554984	76*	93	83	1
11	A554985	82	84	83	0
12	A555553	79*	85	86	1
13	A555552	75*	88	93	1

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

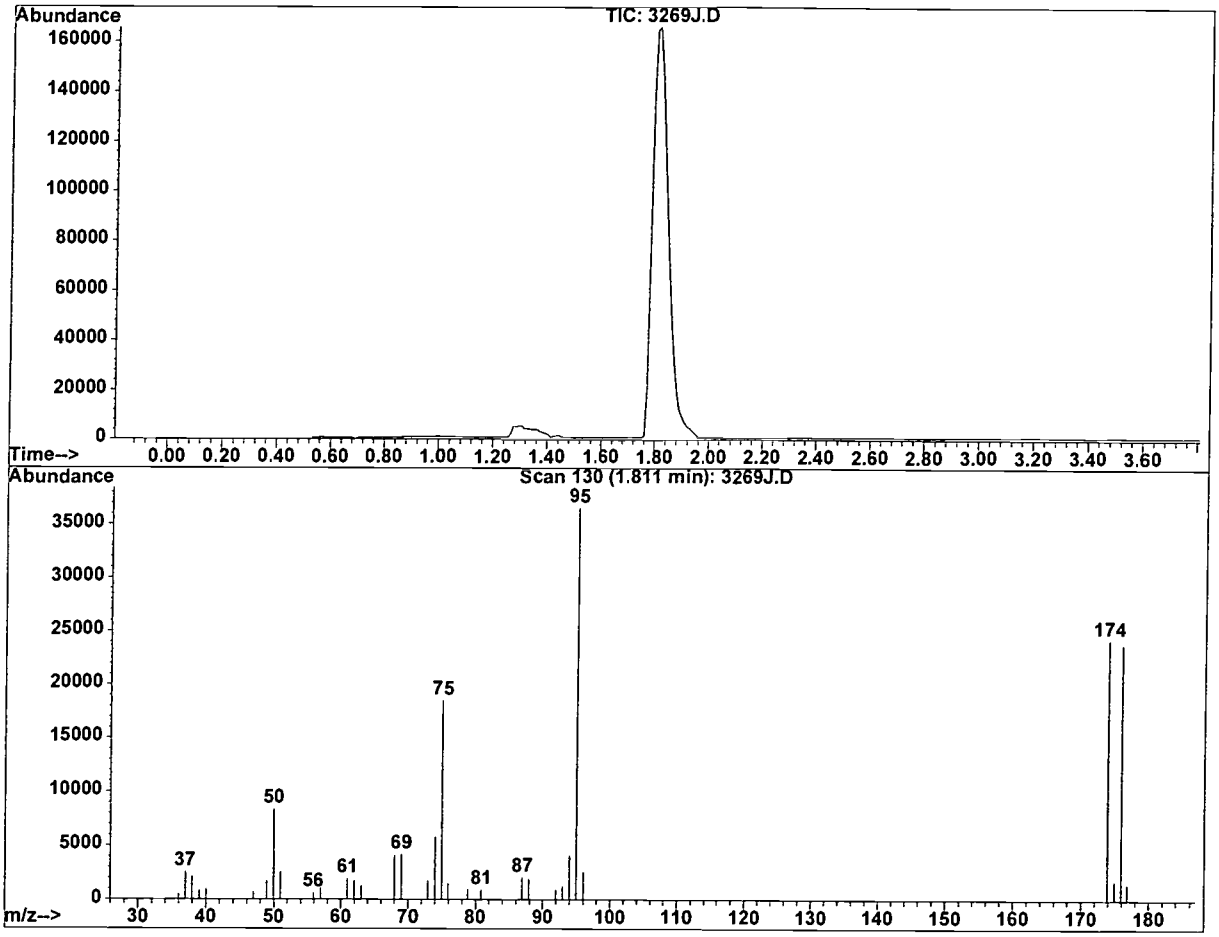
* Values outside of contract required QC limits

D System Monitoring Compound diluted out

BFB

Data File : C:\J060701\3269J.D
Acq On : 7 Jun 01 5:57
Sample : BFB TUNE CHECK
Misc : 6/7/01
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DWJ.M (RTE Integrator)
Title : QUANTITATION FOR DRINKING WATERS

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00



Spectrum Information: Scan 130

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	8367	PASS
75	95	30	80	50.6	18520	PASS
95	95	100	100	100.0	36568	PASS
96	95	5	9	7.0	2557	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.5	24320	PASS
175	174	5	9	7.3	1768	PASS
176	174	95	101	98.2	23880	PASS
177	176	5	9	6.3	1501	PASS

3269J.D DWJ.M Thu Jun 07 06:01:23 2001 RPT1

6-12-1

Scan 130 (1.811 min): 3269J.D
BFB TUNE CHECK

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	519	60.95	1934	86.90	2064		
36.95	2546	61.95	1766	87.90	1923		
37.95	2128	63.05	1257	91.95	953		
39.00	866	68.00	4067	92.95	1267		
40.00	997	69.00	4176	93.95	4119		
46.95	716	72.90	1743	94.95	36568		
48.95	1762	74.00	5835	95.95	2557		
49.95	8367	75.00	18520	173.90	24320		
50.95	2590	75.95	1523	174.90	1768		
55.90	622	78.85	944	175.90	23880		
57.00	1112	80.85	931	176.80	1501		

Continuing Calibration Report

Data File : C:\J060701\3270J.D
Acq On : 7 Jun 01 6:15
Sample : DW STD010
Misc : CALIBRATION CHECK 6/7/01
MS Integration Params: rteint.p

Vial: 1
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

Q1246878

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

cal 1 = 2936J.D cal 5 = 2931J.D cal 10 = 2932J.D
cal 20 = 2933J.D cal 40 = 2934J.D

		Compound	AvgRF	CCRF	%Dev
1	I	FLUOROBENZENE	1.00000	1.00000	0.0
2	T	Dichlorodifluoromethane	0.57126	0.40468	29.2
3	T	Chloromethane	0.41780	0.35571	14.9
4	T	Vinyl Chloride	0.43515	0.32562	25.2
5	T	Bromomethane	0.29351	0.26376	10.1
6	T	Chloroethane	0.31314	0.23905	23.7
7	T	Trichlorofluoromethane	1.13301	1.05675	6.7
8	T	1,1-Dichloroethene	0.55911	0.53191	4.9
9		Acetone	0.01538	0.03357	118.3#
10	T	Methylene Chloride	0.39076	0.32054	18.0
11	T	1,2-Dichloroethene(trans)	0.62300	0.53331	14.4
12	T	1,1-Dichloroethane	0.94356	0.98606	4.5
13		MTBE	0.47355	0.36044	23.9
14	T	2,2-Dichloropropane	1.11089	1.04626	5.8
15	T	2-butanone	0.03762	0.04253	13.1
16	T	1,2-Dichloroethene(cis)	0.54734	0.51663	5.6
17	T	Chloroform	0.95338	0.94520	0.9
18		Tetrahydrofuran	0.01767	0.06763	282.7#
19	T	Bromochloromethane	0.17116	0.14629	14.5
20	T	1,1,1-Trichloroethane	1.14195	1.17839	3.2
21	S	1,2-Dichloroethane-d4	0.32907	0.29264	11.1
22	I	1-CHLORO-2-BROMOPROPANE	1.00000	1.00000	0.0
23	T	1,1-Dichloropropene	0.65835	0.73520	11.7
24	T	Carbon Tetrachloride	2.25513	2.25692	0.1
25	T	1,2-Dichloroethane	0.69729	0.64838	7.0
26	T	Benzene	3.51727	3.93298	11.8
27	T	Trichloroethene	1.55153	1.32866	14.4
28	T	1,2-Dichloropropane	0.47265	0.37483	20.7
29	T	Bromodichloromethane	1.57654	1.26327	19.9
30	T	Dibromomethane	0.42918	0.32108	25.2
31	T	cis-1,3-Dichloropropene	1.35852	1.15235	15.2
32		4-methyl-2-pentanone	0.24577	0.25870	5.3
33	S	Toluene-d8	4.23561	3.98073	6.0
34	T	Toluene	4.88441	4.49395	8.0
35		2-hexanone	0.13686	0.17538	28.1
36	T	trans-1,3-Dichloropropene	0.87186	0.71181	18.4
37	T	1,1,2-Trichloroethane	0.51226	0.47402	7.5
38	T	1,3-Dichloropropane	0.88311	0.89205	1.0
39	T	Tetrachloroethene	2.40863	2.44240	1.4

(#) = Out of Range (Advisory for non CCC, SPCC)

Continuing Calibration Report

Data File : C:\J060701\3270J.D
Acq On : 7 Jun 01 6:15
Sample : DW STD010
Misc : CALIBRATION CHECK 6/7/01
MS Integration Params: rteint.p

Vial: 1
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 = 2936J.D cal 5 = 2931J.D cal 10 = 2932J.D
cal 20 = 2933J.D cal 40 = 2934J.D

		Compound	AvgRF	CCRF	%Dev
40	T	Dibromochloromethane	0.85117	0.81584	4.2
41	T	1,2-Dibromomethane	0.59460	0.58051	2.4
42	T	Chlorobenzene	2.78713	2.68953	3.5
43	T	1,1,1,2-Tetrachloroethane	1.14288	1.02867	10.0
44	T	Ethyl Benzene	1.74971	1.79705	2.7
45	T	m,p-Xylene	2.17514	2.14069	1.6
46	T	o-Xylene	1.83427	1.85900	1.3
47	T	Styrene	2.68026	2.62362	2.1
48	T	Bromoform	0.55042	0.48093	12.6
49	T	Isopropylbenzene	6.43726	6.93813	7.8
50	T	1,1,2,2-Tetrachloroethane	0.60125	0.56374	6.2
51	S	4-Bromofluorobenzene	1.95264	1.99269	2.1
52	T	1,2,3-Trichloropropane	0.39293	0.36079	8.2
53	T	n-Propylbenzene	0.90923	0.94186	3.6
54	T	Bromobenzene	2.42381	2.30054	5.1
55	T	1,3,5-Trimethylbenzene	4.75781	4.74220	0.3
56	T	2-Chlorotoluene	1.28668	1.29215	0.4
57	T	4-Chlorotoluene	1.22038	1.19274	2.3
58	T	t-Butylbenzene	5.28160	5.11165	3.2
59	T	1,2,4-Trimethylbenzene	4.43215	4.16340	6.1
60	T	sec-Butylbenzene	7.93540	8.00388	0.9
61	T	p-Isopropyltoluene	6.06831	5.76038	5.1
62	T	1,3-Dichlorobenzene	2.52866	2.21684	12.3
63	T	1,4-Dichlorobenzene	2.35673	2.08320	11.6
64	T	n-Butylbenzene	3.70810	3.84512	3.7
65	T	1,2-Dichlorobenzene	1.83526	1.59539	13.1
66	T	1,2-Dibromochloropropane	0.12518	0.09523	23.9
67	T	1,2,4-Trichlorobenzene	1.42355	1.39449	2.0
68	T	Hexachlorobutadiene	2.10140	2.08074	1.0
69	T	Naphthalene	0.76654	0.73996	3.5
70	T	1,2,3-Trichlorobenzene	0.94878	0.97518	2.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0

2932J.D DWJ.M Thu Jun 07 06:55:46 2001 RPT1
Average RPD= 14.67

Quantitation Report (QT Reviewed)

Data File : C:\J060701\3270J.D
Acq On : 7 Jun 01 6:15
Sample : DW STD010
Misc : CALIBRATION CHECK 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 7 6:54 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	6.34	96	1312274	10.00 UG/L	0.00
22) 1-CHLORO-2-BROMOPROPANE	9.86	77	616214	10.00 UG/L	0.02
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.83	65	192012	4.45 UG/L	0.02
Spiked Amount 5.000			Recovery	= 89.00%	
33) Toluene-d8	9.12	98	1226490	4.70 UG/L	0.00
Spiked Amount 5.000			Recovery	= 94.00%	
51) 4-Bromofluorobenzene	15.11	95	613961	5.10 UG/L	0.00
Spiked Amount 5.000			Recovery	= 102.00%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	531047	7.08 UG/L	100
3) Chloromethane	1.75	50	466786m	8.51 UG/L	100
4) Vinyl Chloride	1.84	62	427305	7.48 UG/L	99
5) Bromomethane	2.11	94	346122	8.99 UG/L	95
6) Chloroethane	2.20	64	313698	7.63 UG/L	99
7) Trichlorofluoromethane	2.42	101	1386739	9.33 UG/L	99
8) 1,1-Dichloroethene	2.87	96	698014	9.51 UG/L	87
9) Acetone	2.91	43	88100	43.66 UG/L #	100
10) Methylene Chloride	3.31	84	420640	8.20 UG/L	92
11) 1,2-Dichloroethene(trans)	3.60	96	699845	8.56 UG/L	97
12) 1,1-Dichloroethane	4.04	63	1293987	10.45 UG/L	100
13) MTBE	3.61	73	945993	15.22 UG/L	100
14) 2,2-Dichloropropane	4.73	77	1372984	9.42 UG/L	100
15) 2-butanone	4.75	43	111623	22.61 UG/L #	100
16) 1,2-Dichloroethene(cis)	4.73	96	677962	9.44 UG/L	80
17) Chloroform	5.13	83	1240361	9.91 UG/L	99
18) Tetrahydrofuran	3.44	42	177499	76.56 UG/L	100
19) Bromochloromethane	5.04	128	191972	8.55 UG/L #	57
20) 1,1,1-Trichloroethane	5.40	97	1546364	10.32 UG/L	100
23) 1,1-Dichloropropene	5.64	110	453043	11.17 UG/L	100
24) Carbon Tetrachloride	5.64	117	1390747	10.01 UG/L	98
25) 1,2-Dichloroethane	5.94	62	399543	9.30 UG/L	99
26) Benzene	5.93	78	2423557	11.18 UG/L	100
27) Trichloroethene	6.92	130	818738	8.56 UG/L	98
28) 1,2-Dichloropropane	7.29	76	230978	7.93 UG/L	100
29) Bromodichloromethane	7.76	83	778442	8.01 UG/L	100
30) Dibromomethane	7.47	93	197853	7.48 UG/L	95
31) cis-1,3-Dichloropropene	8.59	75	710097	8.48 UG/L	100
32) 4-methyl-2-pentanone	8.91	43	318833	21.05 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\J060701\3270J.D
Acq On : 7 Jun 01 6:15
Sample : DW STD010
Misc : CALIBRATION CHECK 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 7 6:54 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	9.26	91	2769236	9.20 UG/L	100
35) 2-hexanone	10.65	43	216149	25.63 UG/L #	100
36) trans-1,3-Dichloropropene	9.69	75	438628	8.16 UG/L	100
37) 1,1,2-Trichloroethane	10.05	97	292098	9.25 UG/L	94
38) 1,3-Dichloropropane	10.41	76	549692	10.10 UG/L	100
39) Tetrachloroethene	10.37	166	1505040	10.14 UG/L	99
40) Dibromochloromethane	10.89	129	502733	9.58 UG/L	100
41) 1,2-Dibromomethane	11.11	107	357719	9.76 UG/L	98
42) Chlorobenzene	12.26	112	1657323	9.65 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.47	131	633882	9.00 UG/L	100
44) Ethyl Benzene	12.57	106	1107366	10.27 UG/L	98
45) m,p-Xylene	12.87	106	2638243	19.68 UG/L	97
46) o-Xylene	13.83	106	1145544	10.13 UG/L	97
47) Styrene	13.86	104	1616709	9.79 UG/L #	80
48) Bromoform	14.23	173	296355	8.74 UG/L	99
49) Isopropylbenzene	14.79	105	4275373	10.78 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.55	83	347386	9.38 UG/L	98
52) 1,2,3-Trichloropropane	15.61	75	222326m	9.18 UG/L	80
53) n-Propylbenzene	15.86	92	580385	10.36 UG/L	100
54) Bromobenzene	15.44	77	1417625	9.49 UG/L	97
55) 1,3,5-Trimethylbenzene	16.36	105	2922212	9.97 UG/L	100
56) 2-Chlorotoluene	15.99	126	796238	10.04 UG/L	100
57) 4-Chlorotoluene	16.30	126	734984	9.77 UG/L	100
58) t-Butylbenzene	17.18	119	3149871	9.68 UG/L	100
59) 1,2,4-Trimethylbenzene	17.33	105	2565546	9.39 UG/L	100
60) sec-Butylbenzene	17.78	105	4932105	10.09 UG/L	100
61) p-Isopropyltoluene	18.22	119	3549625	9.49 UG/L	100
62) 1,3-Dichlorobenzene	17.96	146	1366046	8.77 UG/L	100
63) 1,4-Dichlorobenzene	18.22	146	1283694	8.84 UG/L	100
64) n-Butylbenzene	19.33	92	2369418	10.37 UG/L	98
65) 1,2-Dichlorobenzene	19.19	146	983104	8.69 UG/L	100
66) 1,2-Dibromochloropropane	21.34	157	58681	7.61 UG/L	100
67) 1,2,4-Trichlorobenzene	23.71	180	859305	9.80 UG/L	100
68) Hexachlorobutadiene	24.26	225	1282179	9.90 UG/L	100
69) Naphthalene	24.28	128	455974	9.65 UG/L	100
70) 1,2,3-Trichlorobenzene	24.91	180	600917	10.28 UG/L	100

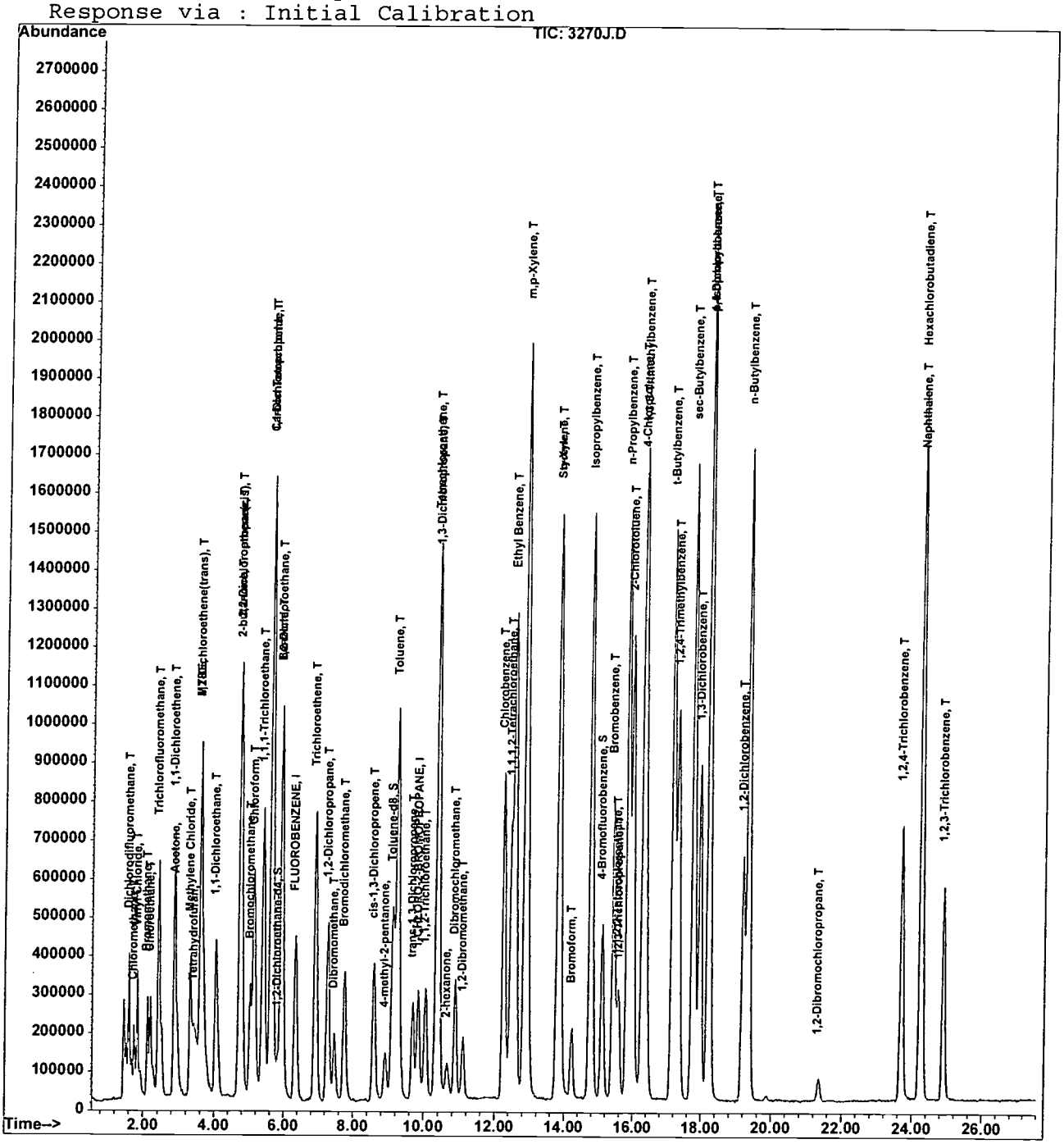
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\J060701\3270J.D
Acq On : 7 Jun 01 6:15
Sample : DW STD010
Misc : CALIBRATION CHECK 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 7 6:54 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



QC Report

QC Type	BLA01	Duplicate Sample ID		Data File	3271J.D
Date Entered	12Jun2001	Duplicate QCSampleID		Analyst	1062 R. SHAMP
Analysis Date/Time	07Jun2001 07:14:00	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		

/ LAS 6-12-1

QC Report

QC Type	BLA01	Duplicate Sample ID		Data File	3271J.D
Date Entered	12Jun2001	Duplicate QCSampleID		Analyst	1062 R. SHAMP
Analysis Date/Time	07Jun2001 07:14:00	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)			4.0	BDL		
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					80	
726	TOLUENE-D8					93	
196	4-BROMOFLUOROBENZENE					112	

Comments

NA

Quantitation Report (QT Reviewed)

Data File : C:\J060701\3271J.D
Acq On : 7 Jun 01 7:14
Sample : DW BLANK
Misc : 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 7 7:56 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

Q1246879

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	6.35	96	1241613	10.00 UG/L	0.01
22) 1-CHLORO-2-BROMOPROPANE	9.85	77	449290	10.00 UG/L	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.83	65	164045m	4.02 UG/L	0.02
Spiked Amount 5.000			Recovery	= 80.40%	
33) Toluene-d8	9.13	98	888627	4.67 UG/L	0.01
Spiked Amount 5.000			Recovery	= 93.40%	
51) 4-Bromofluorobenzene	15.12	95	493033	5.62 UG/L	0.00
Spiked Amount 5.000			Recovery	= 112.40%	
Target Compounds					Qvalue
9) A~~cetone~~	2.91	43	373	0.20 UG/L #	100
18) T~~etrahydro~~furan	3.39	42	1043	0.48 UG/L	100
32) 4~~-methyl-2-pent~~anone	9.11	43	3769	0.34 UG/L #	100

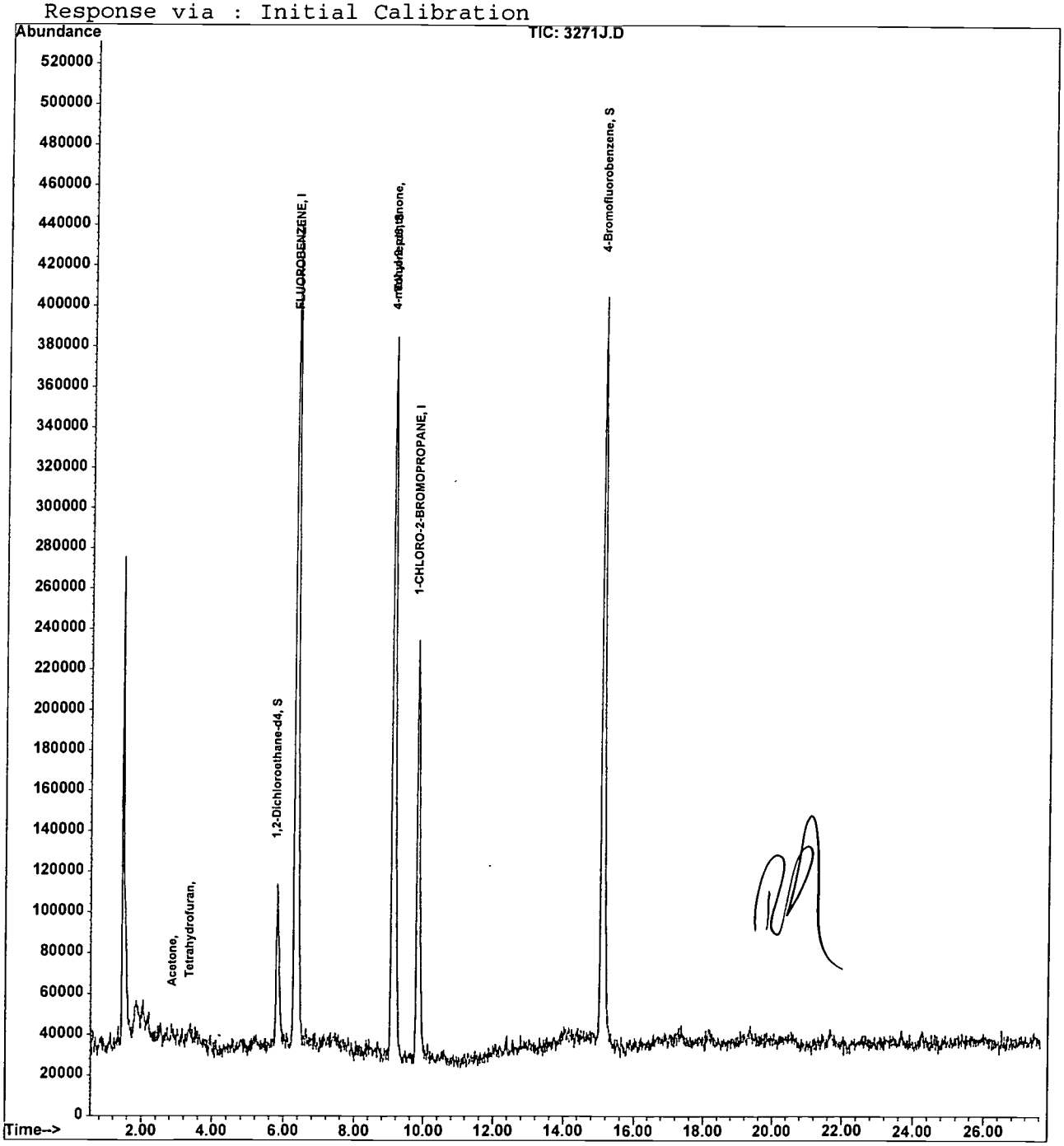
(#) = qualifier out of range (m) = manual integration

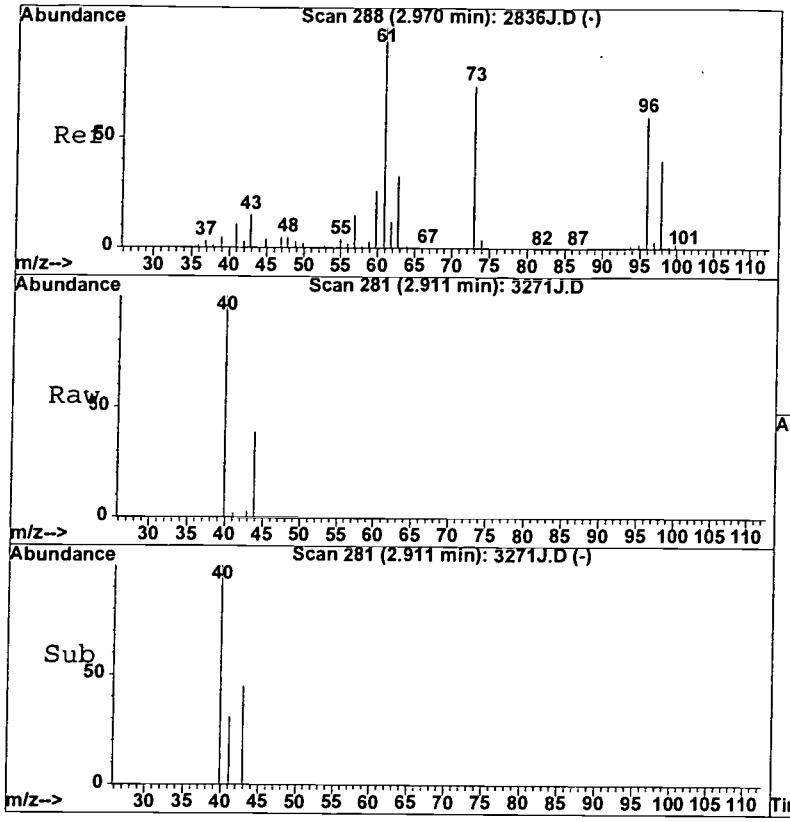
Quantitation Report

Data File : C:\J060701\3271J.D
Acq On : 7 Jun 01 7:14
Sample : DW BLANK
Misc : 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 7 7:56 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

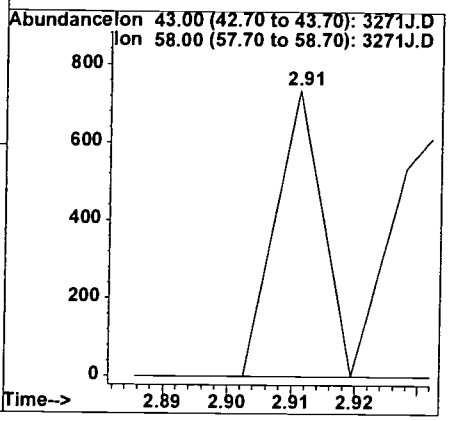


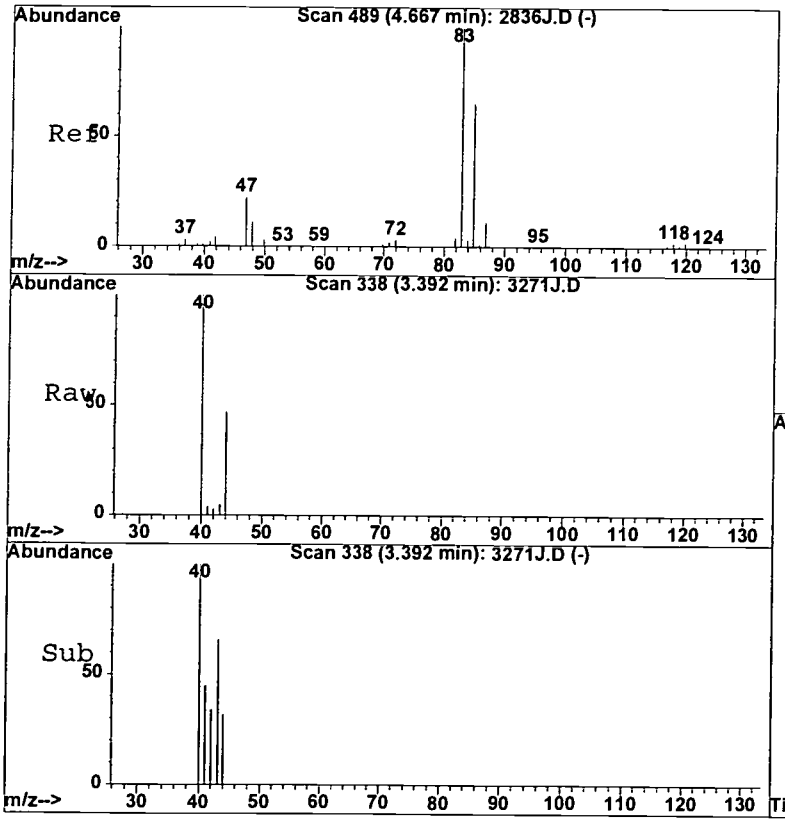


#9
Acetone
Concen: 0.20 UG/L
RT: 2.91 min Scan# 281
Delta R.T. 0.04 min
Lab File: 3271J.D
Acq: 7 Jun 01 7:14

Tgt Ion: 43 Resp: 373

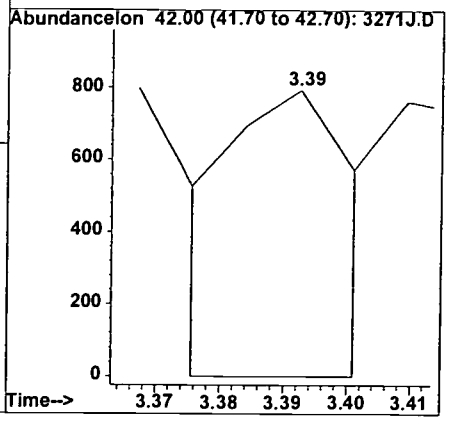
Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0

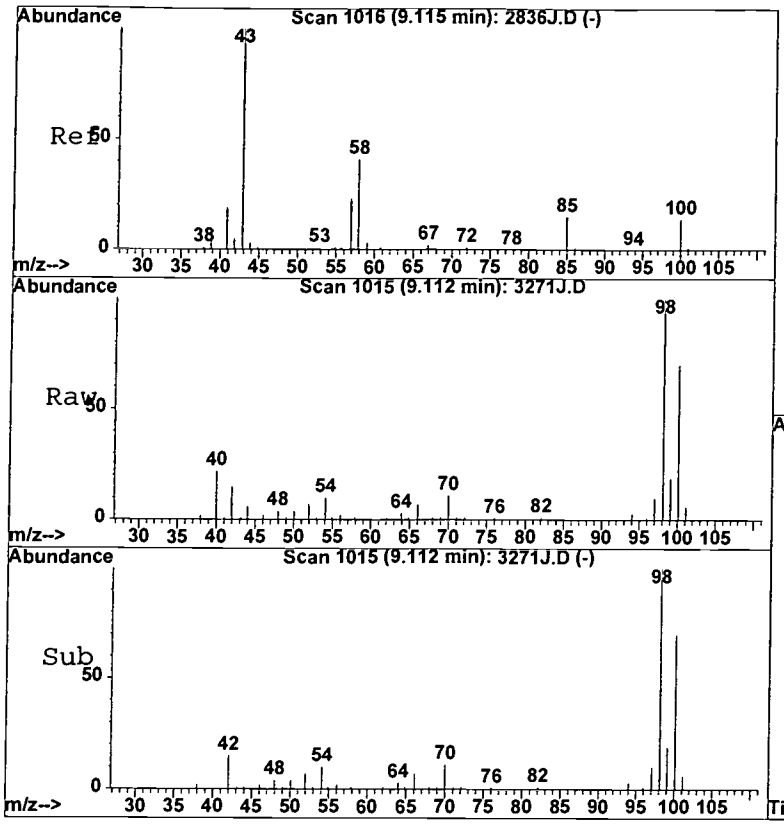




#18
Tetrahydrofuran
Concen: 0.48 UG/L
RT: 3.39 min Scan# 338
Delta R.T. -0.01 min
Lab File: 3271J.D
Acq: 7 Jun 01 7:14

Tgt Ion: 42 Resp: 1043

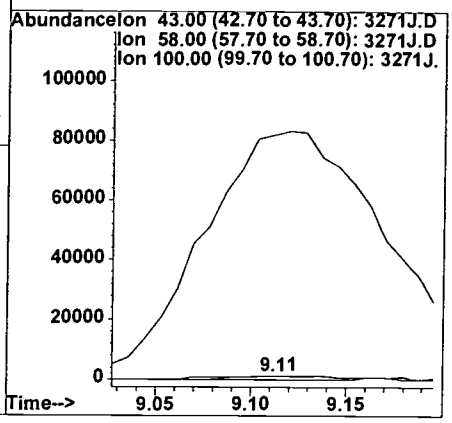




#32
4-methyl-2-pentanone
Concen: 0.34 UG/L
RT: 9.11 min Scan# 1015
Delta R.T. 0.21 min
Lab File: 3271J.D
Acq: 7 Jun 01 7:14

Tgt Ion: 43 Resp: 3769

Ion	Ratio	Lower	Upper
43	100		
58	168.3	0.0	0.0#
100	15912.2	0.0	0.0#



QC Std# 239
Method# 296

Heritage Environmental Services, Indianapolis
LCS01 Volatile QC Report-EPA Method 524
Drinking Water

Q1246880

LCS Data File : 3272J.
LCS Date/Time : 7 Jun 01 8:10
Spike Conc : 5 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Benzene	5.96	119.2	80.0	120.0
Carbon Tetrachloride	4.99	99.8	80.0	120.0
1,4-Dichlorobenzene	5.72	114.4	76.3	126.7
1,2-Dichloroethane	5.8	116.0	80.0	121.9
1,1-Dichloroethene	4.32	86.4	80.0	120.0
1,1,1-Trichloroethane	4.46	89.2	80.0	120.0
Trichloroethene	5.62	112.4	79.0	120.0
Vinyl Chloride	4.59	91.8	71.2	126.8
Bromobenzene	5.78	115.6	80.0	122.7
Bromodichloromethane	5.9	118.0	80.0	120.0
Bromoform	5.77	115.4	74.3	120.0
Bromomethane	5.72	114.4	77.1	129.1
Chlorobenzene	5.11	102.2	80.0	120.0
Dibromochloromethane	4.9	98.0	78.1	120.0
Chloroethane	4.55	91.0	80.0	124.5
Chloroform	5.16	103.2	80.0	120.0
Chloromethane	4.26	85.2	65.5	134.9
2-Chlorotoluene	5.68	113.6	80.0	123.9
4-Chlorotoluene	5.43	108.6	80.0	123.1
Dibromomethane	6	120.0	80.0	120.0
1,3-Dichlorobenzene	5.38	107.6	77.8	124.4
1,2-Dichlorobenzene	5.56	111.2	75.3	128.5
1,2-Dichloroethene(trans)	4.16	83.2	80.0	120.0
1,2-Dichloroethene(cis)	4.53	90.6	80.0	120.0
Methylene Chloride	4.6	92.0	80.0	121.9
1,1-Dichloroethane	5.08	101.6	80.0	125.8
1,1-Dichloropropene	5.64	112.8	80.0	120.0
1,2-Dichloropropane	5.97	119.4	80.0	120.0
1,3-Dichloropropane	5.26	105.2	80.0	120.0
cis-1,3-Dichloropropene	5.74	114.8	80.0	120.0
trans-1,3-Dichloropropene	4.87	97.4	80.0	120.0
2,2-Dichloropropane	4.07	81.4	80.0	124.5
Ethyl Benzene	5.17	103.4	80.0	120.0
Styrene	5.7	114.0	80.0	123.2
1,1,2-Trichloroethane	4.79	95.8	80.0	120.0
1,1,1,2-Tetrachloroethane	5.09	101.8	77.7	120.1
1,1,2,2-Tetrachloroethane	5.95	119.0	80.0	120.0
Tetrachloroethene	4.05	81.0	77.3	120.0
1,2,3-Trichloropropane	5.05	101.0	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 : 3272J.
LCS Date/Time : 7 Jun 01 8:10
Spike Conc : 5 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Toluene	4.95	99.0	80.0	120.0
o-Xylene	5.8	116.0	80.0	123.8
m,p-Xylene	11	110.0	80.0	122.8
Bromochloromethane	4.77	95.4	78.7	120.0
n-Butylbenzene	5.26	105.2	79.0	123.2
Dichlorodifluoromethane	3.79	75.8	41.6	128.6
Trichlorofluoromethane	4.07	81.4	80.0	125.7
Hexachlorobutadiene	4.62	92.4	51.9	146.7
Isopropylbenzene	5.6	112.0	60.0	136.4
p-Isopropyltoluene	5.18	103.6	78.2	120.8
Naphthalene	6.21	124.2	68.1	149.1
n-Propylbenzene	5.06	101.2	70.9	130.7
sec-Butylbenzene	5.17	103.4	70.6	131.0
t-Butylbenzene	4.85	97.0	59.6	137.8
1,2,3-Trichlorobenzene	6.33	126.6	66.0	149.0
1,2,4-Trichlorobenzene	5.58	111.6	66.4	140.8
1,2,4-Trimethylbenzene	5.37	107.4	77.9	132.1
1,3,5-Trimethylbenzene	5.32	106.4	70.6	135.4

* Advisory Limits Updated 3/95 , 80 - 120% minimum range.

Quantitation Report (QT Reviewed)

Data File : F:\J060701\3272J.D
Acq On : 7 Jun 01 8:10
Sample : DI MS
Misc : 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 12 12:23 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	6.33	96	1125631	10.00 UG/L	0.00
22) 1-CHLORO-2-BROMOPROPANE	9.85	77	465471m	10.00 UG/L	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.83	65	169669	4.58 UG/L	0.02
Spiked Amount 5.000			Recovery	= 91.60%	
33) Toluene-d8	9.11	98	895483	4.54 UG/L	0.00
Spiked Amount 5.000			Recovery	= 90.80%	
51) 4-Bromofluorobenzene	15.13	95	479476	5.28 UG/L	0.01
Spiked Amount 5.000			Recovery	= 105.60%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	243440m	3.79 UG/L	100
3) Chloromethane	1.76	50	200484m	4.26 UG/L	100
4) Vinyl Chloride	1.85	62	225059m	4.59 UG/L	100
5) Bromomethane	2.12	94	188916	5.72 UG/L #	76
6) Chloroethane	2.20	64	160358m	4.55 UG/L	97
7) Trichlorofluoromethane	2.41	101	519270m	4.07 UG/L	100
8) 1,1-Dichloroethene	2.87	96	271805	4.32 UG/L	90
9) Acetone	2.90	43	24048m	13.89 UG/L	100
10) Methylene Chloride	3.32	84	202453	4.60 UG/L	93
11) 1,2-Dichloroethene(trans)	3.60	96	291496m	4.16 UG/L	61
12) 1,1-Dichloroethane	4.05	63	539373	5.08 UG/L	100
13) MTBE	3.61	73	470689	8.83 UG/L	100
14) 2,2-Dichloropropane	4.74	77	509086	4.07 UG/L	100
15) 2-butanone	4.75	43	42220	9.97 UG/L #	100
16) 1,2-Dichloroethene(cis)	4.73	96	278863	4.53 UG/L	80
17) Chloroform	5.13	83	554175	5.16 UG/L	99
18) Tetrahydrofuran	3.61	42	20881m	10.50 UG/L	100
19) Bromochloromethane	5.03	128	91817	4.77 UG/L #	56
20) 1,1,1-Trichloroethane	5.40	97	573493	4.46 UG/L	99
23) 1,1-Dichloropropene	5.64	110	172974	5.64 UG/L	100
24) Carbon Tetrachloride	5.64	117	524304	4.99 UG/L	99
25) 1,2-Dichloroethane	5.93	62	188139	5.80 UG/L	99
26) Benzene	5.93	78	975059m	5.96 UG/L	100
27) Trichloroethene	6.94	130	405971	5.62 UG/L	100
28) 1,2-Dichloropropane	7.27	76	131331m	5.97 UG/L	100
29) Bromodichloromethane	7.74	83	433273	5.90 UG/L	100
30) Dibromomethane	7.48	93	119905	6.00 UG/L	96
31) cis-1,3-Dichloropropene	8.58	75	362932	5.74 UG/L	100
32) 4-methyl-2-pentanone	8.91	43	133747	11.69 UG/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\J060701\3272J.D
Acq On : 7 Jun 01 8:10
Sample : DI MS
Misc : 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 12 12:23 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	9.24	91	1124327	4.95 UG/L	100
35) 2-hexanone	10.65	43	68763	10.79 UG/L #	100
36) trans-1,3-Dichloropropene	9.69	75	197563	4.87 UG/L	100
37) 1,1,2-Trichloroethane	10.06	97	114148	4.79 UG/L	96
38) 1,3-Dichloropropane	10.40	76	216217	5.26 UG/L	100
39) Tetrachloroethene	10.37	166	453510	4.05 UG/L	100
40) Dibromochloromethane	10.88	129	194327	4.90 UG/L	100
41) 1,2-Dibromomethane	11.11	107	141782	5.12 UG/L	98
42) Chlorobenzene	12.26	112	662790	5.11 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.47	131	270536	5.09 UG/L	100
44) Ethyl Benzene	12.58	106	420983	5.17 UG/L	95
45) m,p-Xylene	12.87	106	1115526	11.02 UG/L	100
46) o-Xylene	13.83	106	495290	5.80 UG/L	99
47) Styrene	13.86	104	710648	5.70 UG/L #	80
48) Bromoform	14.22	173	147760	5.77 UG/L	99
49) Isopropylbenzene	14.78	105	1678581	5.60 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.56	83	166453m	5.95 UG/L	96
52) 1,2,3-Trichloropropane	15.61	75	92329	5.05 UG/L	95
53) n-Propylbenzene	15.85	92	214136	5.06 UG/L	78
54) Bromobenzene	15.43	77	651594	5.78 UG/L	96
55) 1,3,5-Trimethylbenzene	16.36	105	1179022	5.32 UG/L	100
56) 2-Chlorotoluene	16.00	126	340356	5.68 UG/L	100
57) 4-Chlorotoluene	16.30	126	308450	5.43 UG/L	100
58) t-Butylbenzene	17.19	119	1193548	4.85 UG/L	100
59) 1,2,4-Trimethylbenzene	17.32	105	1108445	5.37 UG/L	100
60) sec-Butylbenzene	17.78	105	1910412	5.17 UG/L	100
61) p-Isopropyltoluene	18.22	119	1462115	5.18 UG/L	100
62) 1,3-Dichlorobenzene	17.97	146	633755	5.38 UG/L	100
63) 1,4-Dichlorobenzene	18.23	146	627900	5.72 UG/L	100
64) n-Butylbenzene	19.34	92	908406	5.26 UG/L	100
65) 1,2-Dichlorobenzene	19.19	146	475033	5.56 UG/L	100
66) 1,2-Dibromochloropropane	21.36	157	31198	5.35 UG/L	100
67) 1,2,4-Trichlorobenzene	23.69	180	369680	5.58 UG/L	100
68) Hexachlorobutadiene	24.26	225	452112	4.62 UG/L	100
69) Naphthalene	24.28	128	221695m	6.21 UG/L	100
70) 1,2,3-Trichlorobenzene	24.89	180	279700	6.33 UG/L	100

(#) = qualifier out of range (m) = manual integration

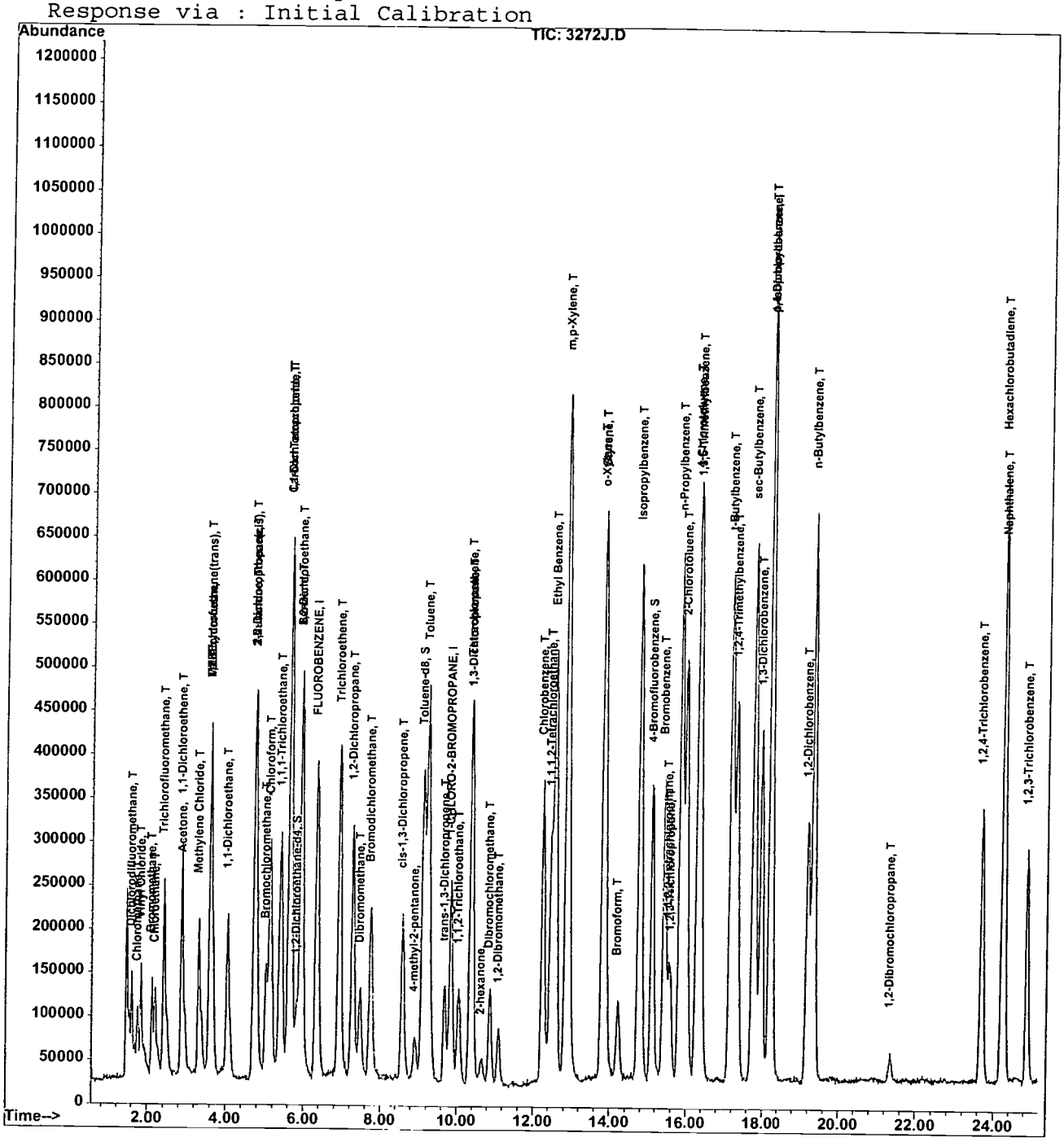
Quantitation Report

Data File : F:\J060701\3272J.D
Acq On : 7 Jun 01 8:10
Sample : DI MS
Misc : 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 12 12:23 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : F:\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



R414382 **Heritage Environmental Services** A555261

GC/MS VOA

Method : EPA 524.2 REV. 4.1 **Test Code O516.9.0**

Sample Description : DK27345 Analyst #: 1062 R. SHAMP

Submitter : IDEM - OFFICE OF WATER MANAGEM File : 3274J.D Date/Time : 07Jun2001 09:26:00

Instrument # : 176 Channel # : 1 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)	.78 ~~.63~~	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					

✓ AS 6-12-1

R414382 **Heritage Environmental Services** A555261

GC/MS VOA

Method : EPA 524.2 REV. 4.1 **Test Code O516.9.0**

Sample Description : DK27345 Analyst #: 1062 R. SHAMP

Submitter : IDEM - OFFICE OF WATER MANAGEM File : 3274J.D Date/Time : 07Jun2001 09:26:00

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	81			% REC	
2037-26-5	726	TOLUENE-D8	84			% REC	
460-00-4	196	4-BROMOFLUOROBENZENE	92			% REC	
TIC	1131	TENTATIVELY IDENTIFIED COMPOUNDS					
NA	3320	NONE DETECTED					

Test Comments

Note: Sample was rerun to confirm dichloromethane.

RQL

BDL Below Detection Limit

Quantitation Report (Not Reviewed)

Data File : C:\J060701\3274J.D
Acq On : 7 Jun 01 9:26
Sample : A555261 DK27345
Misc : 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 7 9:54 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

TC#37

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	6.36	96	839679	10.00 UG/L	0.02
22) 1-CHLORO-2-BROMOPROPANE	9.85	77	429701	10.00 UG/L	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.83	65	111317	4.03 UG/L	0.02
Spiked Amount 5.000			Recovery	= 80.60%	
33) Toluene-d8	9.12	98	760640	4.18 UG/L	0.00
Spiked Amount 5.000			Recovery	= 83.60%	
51) 4-Bromofluorobenzene	15.10	95	387514	4.62 UG/L	-0.01
Spiked Amount 5.000			Recovery	= 92.40%	
Target Compounds					Qvalue
9) ~~Acetone~~	2.90	43	~~2844~~	~~2.20~~ 0.18 UG/L #	100
10) ~~Methylene Chloride~~ 0.78	3.31	84	~~20505~~ 25954 m	~~0.63~~ UG/L	83
15) ~~2-butanone~~	4.75	43	1422	0.45 UG/L #	100
18) ~~Tetrahydrofuran~~	3.38	42	4031	2.72 UG/L	100
36) ~~trans-1,3-Dichloropropene~~	9.86	75	3803	0.10 UG/L	100

NO TICS

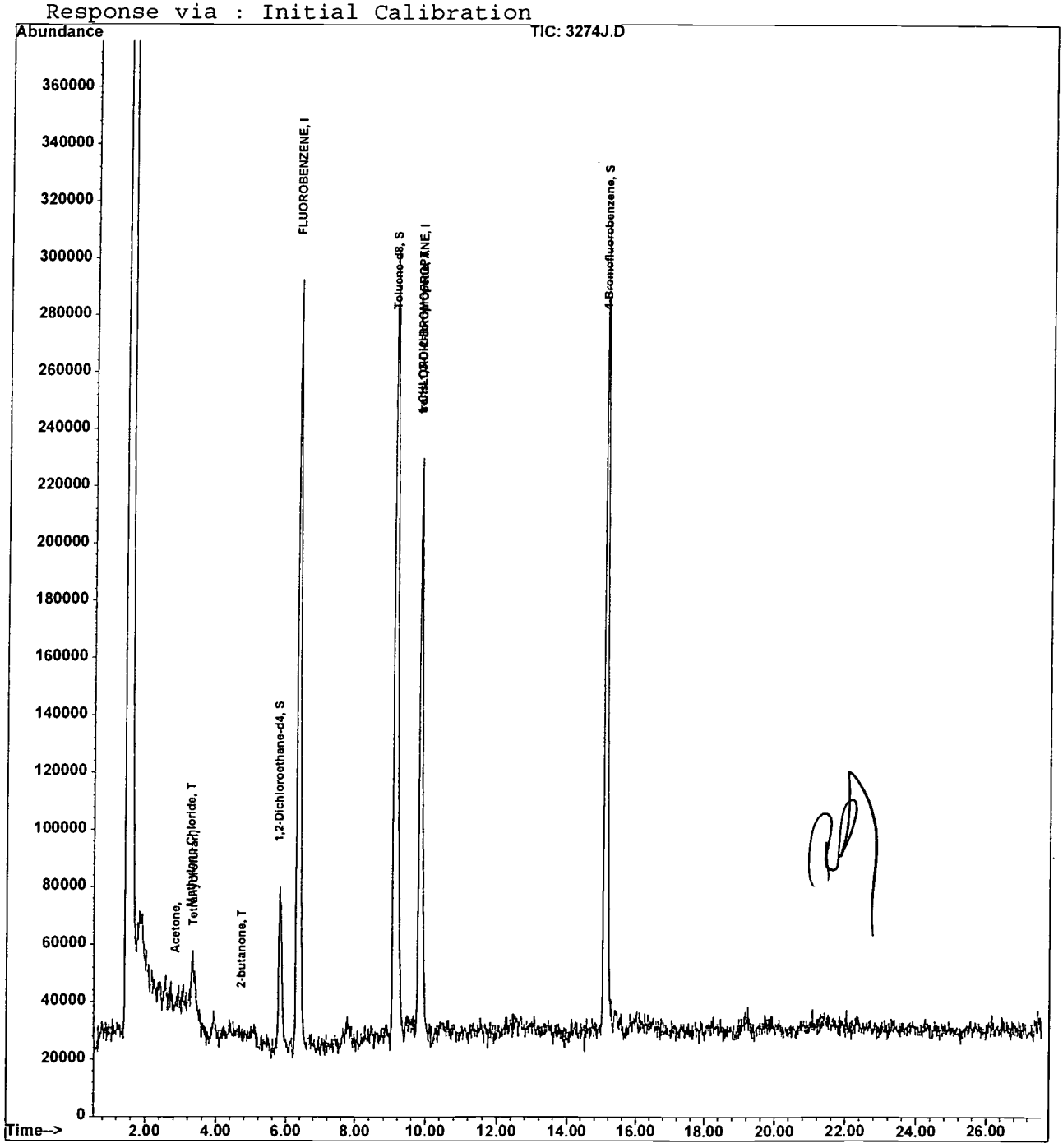
(#) = qualifier out of range (m) = manual integration

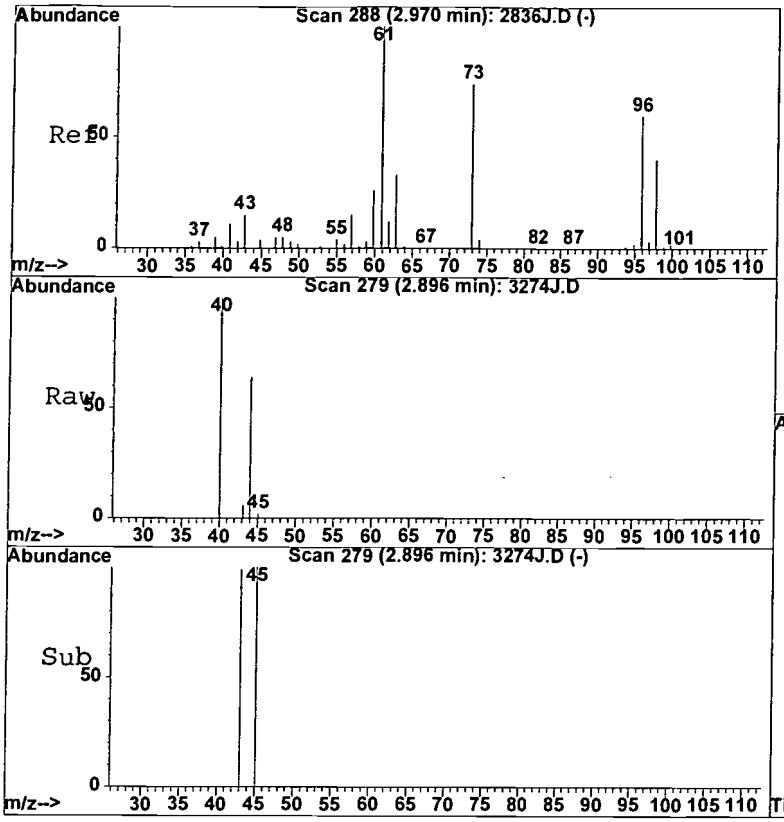
Quantitation Report

Data File : C:\J060701\3274J.D
Acq On : 7 Jun 01 9:26
Sample : A555261 DK27345
Misc : 6/7/01
MS Integration Params: rteint.p
Quant Time: Jun 7 9:54 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

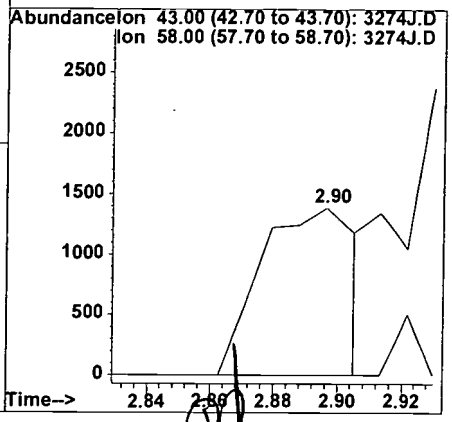


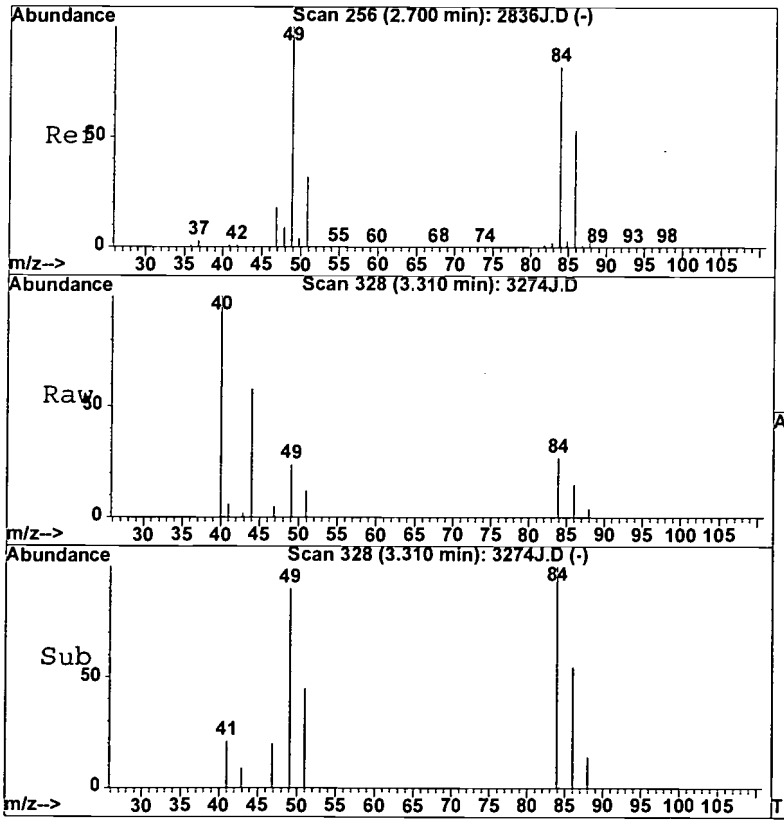


#9
Acetone
Concen: 2.20 UG/L
RT: 2.90 min Scan# 279
Delta R.T. 0.03 min
Lab File: 3274J.D
Acq: 7 Jun 01 9:26

Tgt Ion: 43 Resp: 2844

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0

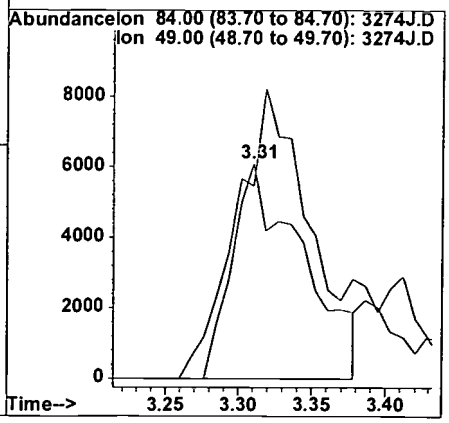


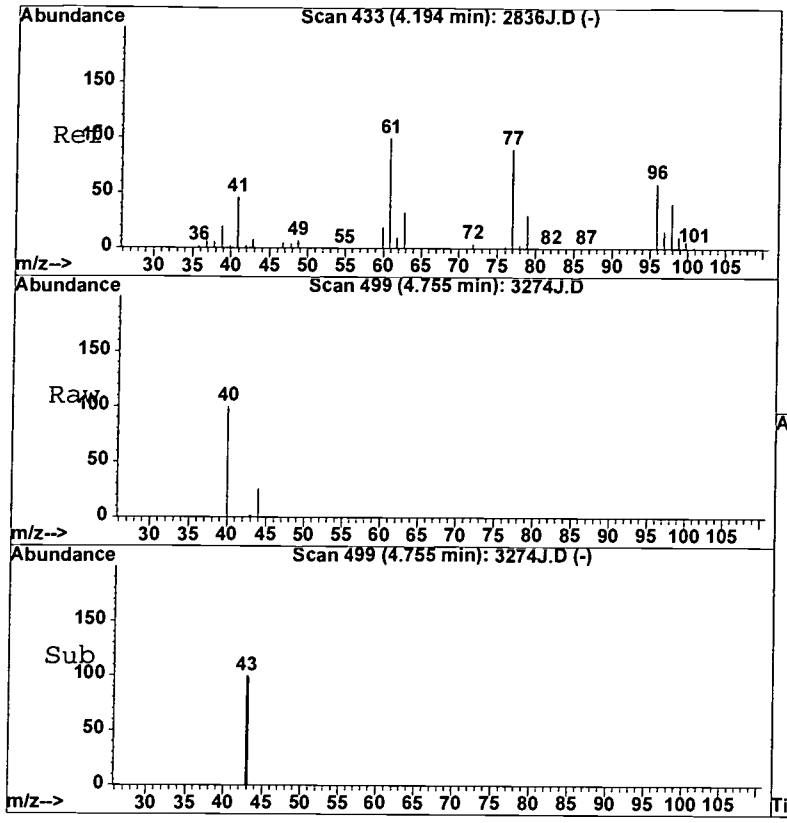


#10
Methylene Chloride
Concen: 0.63 UG/L
RT: 3.31 min Scan# 328
Delta R.T. 0.00 min
Lab File: 3274J.D
Acq: 7 Jun 01 9:26

Tgt Ion: 84 Resp: 20565

Ion	Ratio	Lower	Upper
84	100		
49	133.3	124.3	186.5

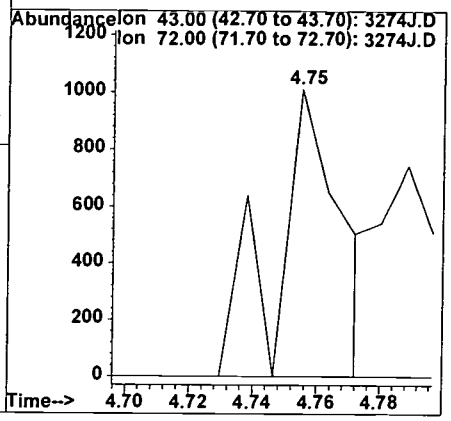


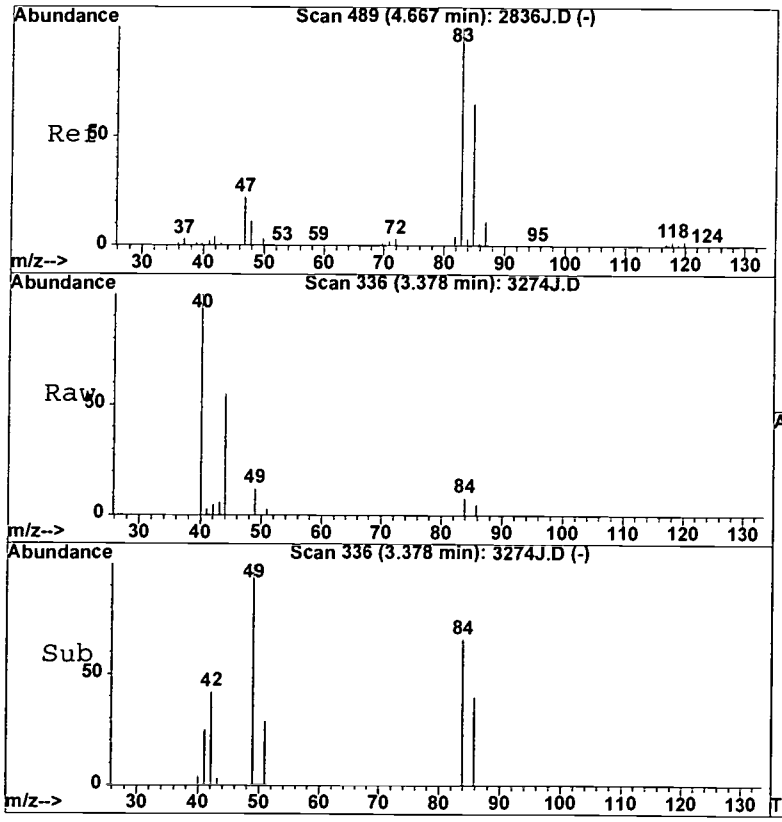


#15
2-butanone
Concen: 0.45 UG/L
RT: 4.75 min Scan# 499
Delta R.T. 0.00 min
Lab File: 3274J.D
Acq: 7 Jun 01 9:26

Tgt Ion: 43 Resp: 1422

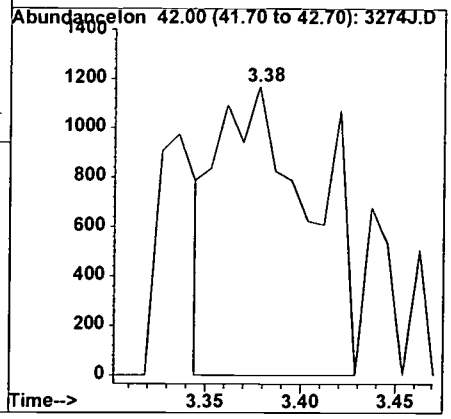
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	0.0

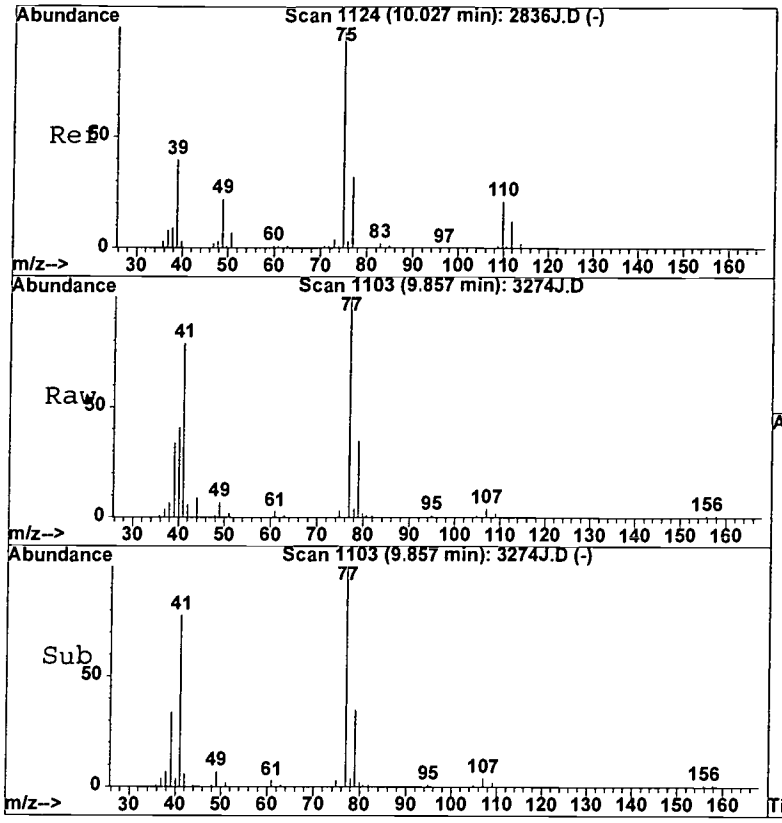




#18
Tetrahydrofuran
Concen: 2.72 UG/L
RT: 3.38 min Scan# 336
Delta R.T. -0.02 min
Lab File: 3274J.D
Acq: 7 Jun 01 9:26

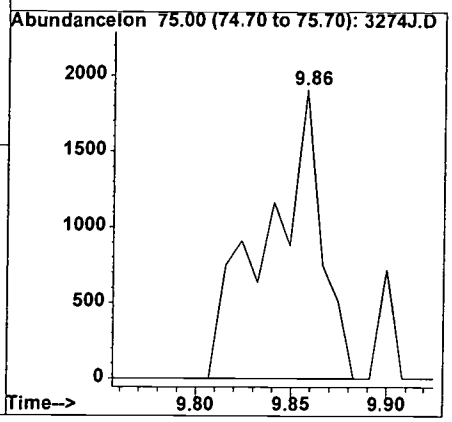
Tgt Ion: 42 Resp: 4031





#36
trans-1,3-Dichloropropene
Concen: 0.10 UG/L
RT: 9.86 min Scan# 1103
Delta R.T. 0.17 min
Lab File: 3274J.D
Acq: 7 Jun 01 9:26

Tgt Ion: 75 Resp: 3803



Quantitation Report (Not Reviewed)

Data File : C:\J060501\3257J.D
Acq On : 5 Jun 01 16:47
Sample : A555261 DK27345
Misc : 6/5/01
MS Integration Params: rteint.p
Quant Time: Jun 5 17:15 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

Sub 2+

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	6.35	96	821818	10.00	UG/L	0.01
22) 1-CHLORO-2-BROMOPROPANE	9.87	77	413149	10.00	UG/L	0.02
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	5.83	65	126062	4.66	UG/L	0.02
Spiked Amount 5.000			Recovery	=	93.20%	
33) Toluene-d8	9.12	98	718373	4.11	UG/L	0.00
Spiked Amount 5.000			Recovery	=	82.20%	
51) 4-Bromofluorobenzene	15.12	95	235010	2.91	UG/L	0.00
Spiked Amount 5.000			Recovery	=	58.20%	
Target Compounds						Qvalue
9) Acetone	2.90	43	5356	4.24	UG/L #	100
10) Methylene Chloride	3.32	84	21183	0.66	UG/L #	69
15) 2-butanone	4.75	43	1950	0.63	UG/L #	100
17) Chloroform	5.14	83	17716	0.23	UG/L	98
18) Tetrahydrofuran	3.39	42	1495	1.03	UG/L	100
36) trans-1,3-Dichloropropene	9.86	75	5046	0.14	UG/L	100

(#) = qualifier out of range (m) = manual integration

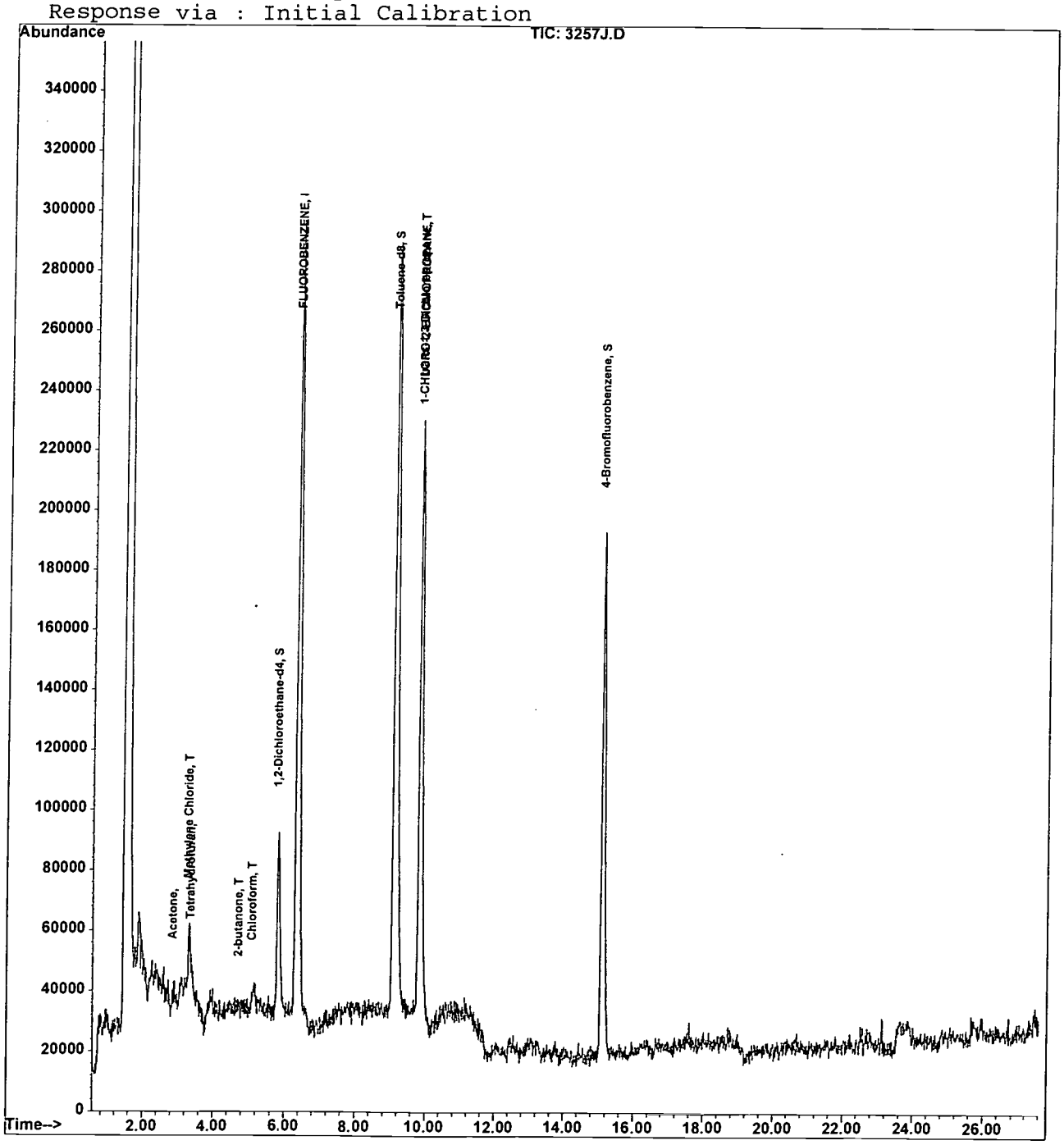
Quantitation Report

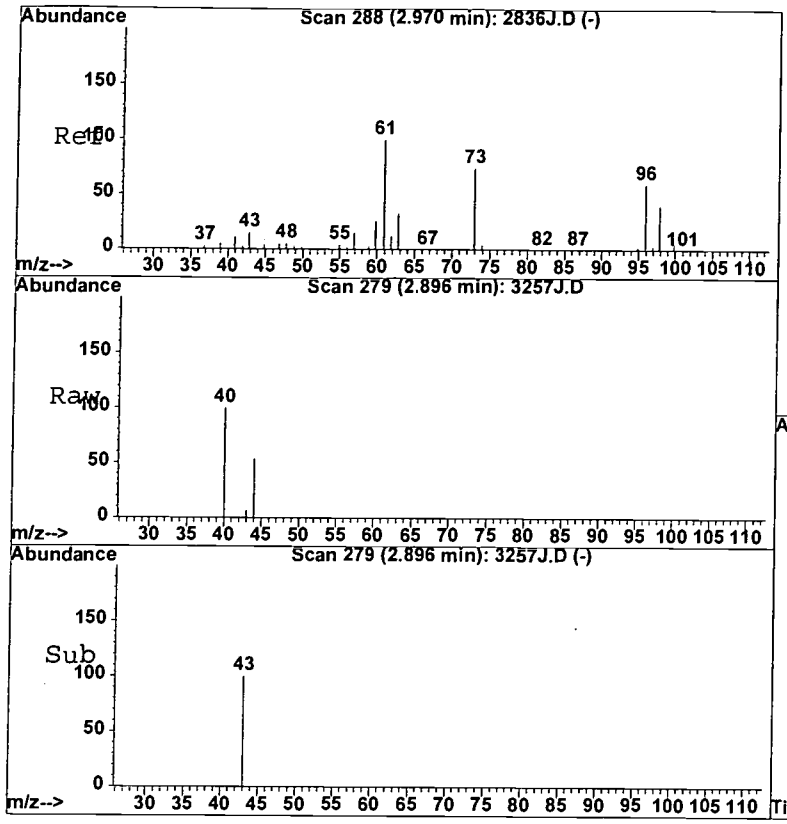
Data File : C:\J060501\3257J.D
Acq On : 5 Jun 01 16:47
Sample : A555261 DK27345
Misc : 6/5/01
MS Integration Params: rteint.p
Quant Time: Jun 5 17:15 2001

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

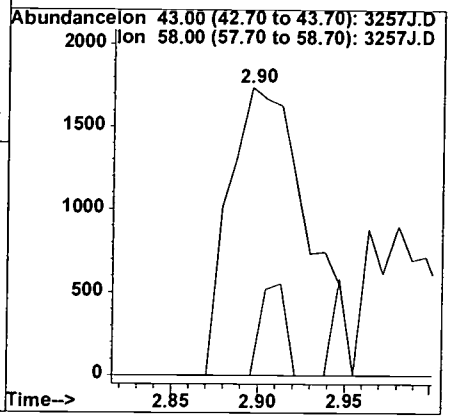


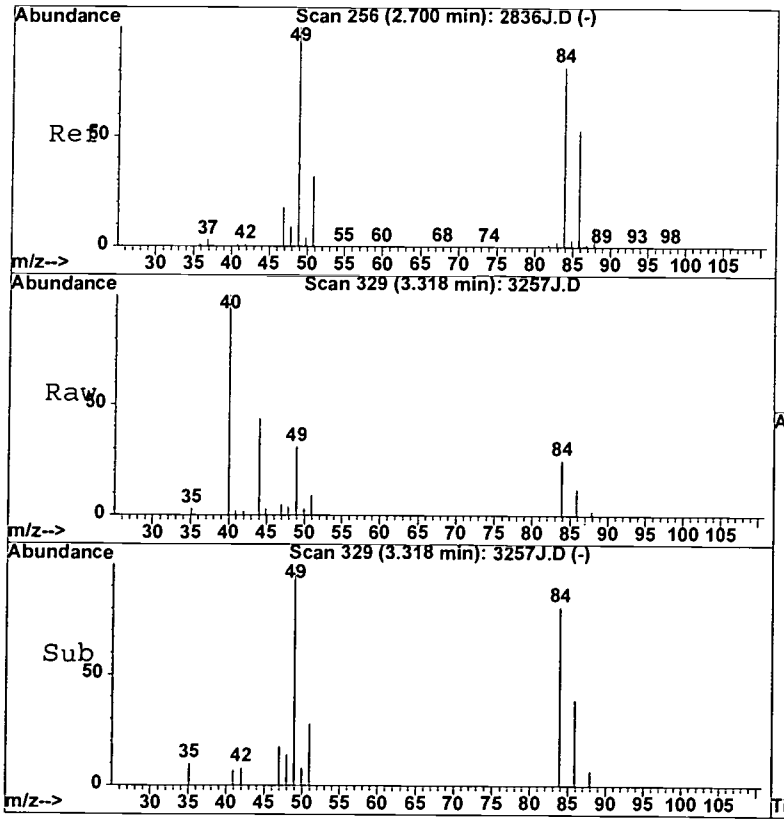


#9
Acetone
Concen: 4.24 UG/L
RT: 2.90 min Scan# 279
Delta R.T. 0.03 min
Lab File: 3257J.D
Acq: 5 Jun 01 16:47

Tgt Ion: 43 Resp: 5356

Ion	Ratio	Lower	Upper
43	100		
58	10.1	0.0	0.0#

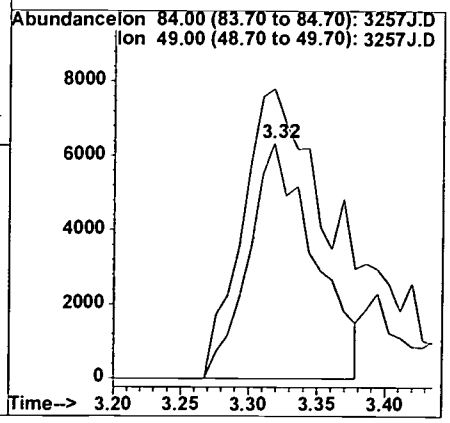




#10
Methylene Chloride
Concen: 0.66 UG/L
RT: 3.32 min Scan# 329
Delta R.T. 0.01 min
Lab File: 3257J.D
Acq: 5 Jun 01 16:47

Tgt Ion: 84 Resp: 21183

Ion	Ratio	Lower	Upper
84	100		
49	195.1	124.3	186.5#

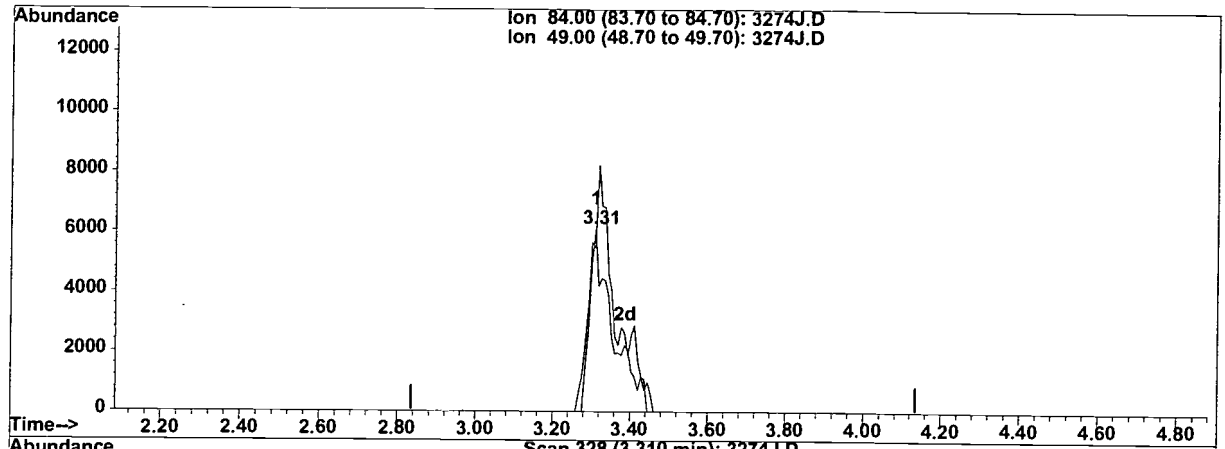


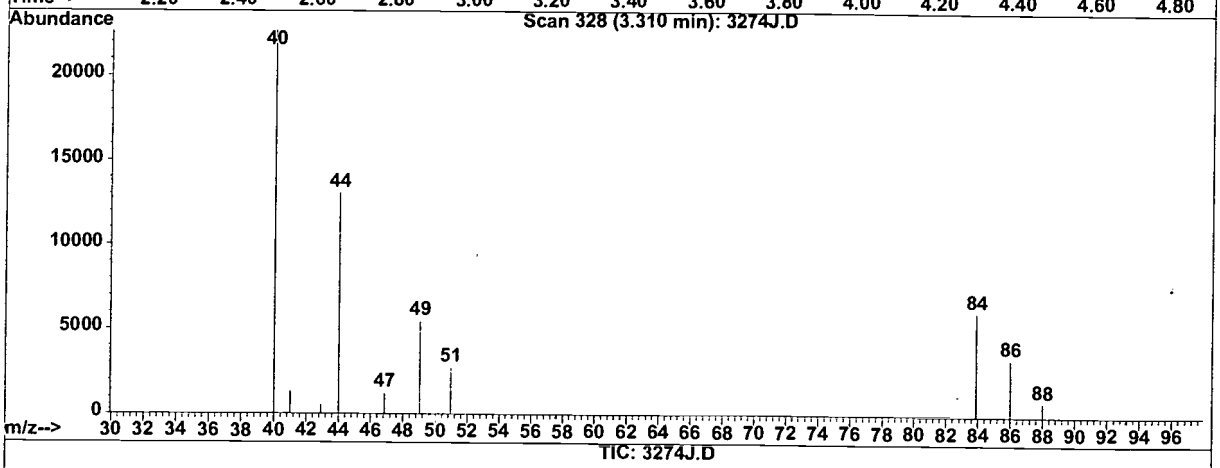
Quantitation Report

Data File : F:\J060701\3274J.D
Acq On : 7 Jun 01 9:26
Sample : A555261 DK27345
Misc : 6/7/01
Quant Time: Jun 12 12:26 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00
Quant Results File: temp.res

Method : F:\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





(10) Methylene Chloride (T)

3.31min 0.78UG/L m

response 25454

Ion	Exp%	Act%
84.00	100	100
49.00	155.40	107.72#
0.00	0.00	0.00
0.00	0.00	0.00

3274J.D DWJ.M Tue Jun 12 12:27:00 2001 RPT01

R412119

QC Check STD

QC Std# 239
Method# 296

Heritage Environmental Services, Indianapolis
LCS01 Volatile QC Report-EPA Method 524
Drinking Water

ICV
~~LCS~~ Data File : 2954J.
~~LCS~~ Date/Time : 042701 16:10

Q1232057

Spike Conc : 10 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Benzene	10.6	106.0	80.0	120.0
Carbon Tetrachloride	11.1	111.0	80.0	120.0
1,4-Dichlorobenzene	9.29	92.9	76.3	126.7
1,2-Dichloroethane	10.4	104.0	80.0	121.9
1,1-Dichloroethene	10.8	108.0	80.0	120.0
1,1,1-Trichloroethane	10.6	106.0	80.0	120.0
Trichloroethene	11.5	115.0	79.0	120.0
Vinyl Chloride	10.2	102.0	71.2	126.8
Bromobenzene	8.15	81.5	80.0	122.7
Bromodichloromethane	9.61	96.1	80.0	120.0
Bromoform	8.58	85.8	74.3	120.0
Bromomethane	10.7	107.0	77.1	129.1
Chlorobenzene	8.26	82.6	80.0	120.0
Dibromochloromethane	9.62	96.2	78.1	120.0
Chloroethane	8.05	80.5	80.0	124.5
Chloroform	10.9	109.0	80.0	120.0
Chloromethane	8.66	86.6	65.5	134.9
2-Chlorotoluene	11.2	112.0	80.0	123.9
4-Chlorotoluene	10.6	106.0	80.0	123.1
Dibromomethane	8.88	88.8	80.0	120.0
1,3-Dichlorobenzene	9.09	90.9	77.8	124.4
1,2-Dichlorobenzene	9.11	91.1	75.3	128.5
1,2-Dichloroethene(trans)	10.1	101.0	80.0	120.0
1,2-Dichloroethene(cis)	9.41	94.1	80.0	120.0
Methylene Chloride	11.3	113.0	80.0	121.9
1,1-Dichloroethane	11	110.0	80.0	125.8
1,1-Dichloropropene	10.5	105.0	80.0	120.0
1,2-Dichloropropane	9.74	97.4	80.0	120.0
1,3-Dichloropropane	8.13	81.3	80.0	120.0
cis-1,3-Dichloropropene	8.24	82.4	80.0	120.0
trans-1,3-Dichloropropene	8.22	82.2	80.0	120.0
2,2-Dichloropropane	9.91	99.1	80.0	124.5
Ethyl Benzene	8.47	84.7	80.0	120.0
Styrene	8.84	88.4	80.0	123.2
1,1,2-Trichloroethane	8.69	86.9	80.0	120.0
1,1,1,2-Tetrachloroethane	8.68	86.8	77.7	120.1
1,1,2,2-Tetrachloroethane	8.29	82.9	80.0	120.0
Tetrachloroethene	8.86	88.6	77.3	120.0
1,2,3-Trichloropropane	9.47	94.7	65.8	131.2

TBM 5.9.01

NW 5/8/01

QC Std# 239
Method# 296

Heritage Environmental Services, Indianapolis
LCS01 Volatile QC Report-EPA Method 524
Drinking Water

LCS Data File : 2954J.
LCS Date/Time : 042701 16:10
Spike Conc : 10 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *

QC Std# 239
Method# 296

Heritage Environmental Services, Indianapolis
LCS01 Volatile QC Report-EPA Method 524
Drinking Water

LCS Data File : 2954J.
LCS Date/Time : 042701 16:10
Spike Conc : 10 uG/L
Dilution Factor: 1

Compound	Spike Conc	Spike % Rec	Min Recovery *	Max Recovery *
Toluene	8.53	85.3	80.0	120.0
o-Xylene	8.83	88.3	80.0	123.8
m,p-Xylene	17.6	88.0	80.0	122.8
Bromochloromethane	9.81	98.1	78.7	120.0
n-Butylbenzene	10.5	105.0	79.0	123.2
Dichlorodifluoromethane	11	110.0	41.6	128.6
Trichlorofluoromethane	12.3	123.0	80.0	125.7
Hexachlorobutadiene	5.94	59.4	51.9	146.7
Isopropylbenzene	8.81	88.1	60.0	136.4
p-Isopropyltoluene	9.92	99.2	78.2	120.8
Naphthalene	9.75	97.5	68.1	149.1
n-Propylbenzene	9.18	91.8	70.9	130.7
sec-Butylbenzene	10	100.0	70.6	131.0
t-Butylbenzene	9.53	95.3	59.6	137.8
1,2,3-Trichlorobenzene	8	80.0	66.0	149.0
1,2,4-Trichlorobenzene	7.88	78.8	66.4	140.8
1,2,4-Trimethylbenzene	8.75	87.5	77.9	132.1
1,3,5-Trimethylbenzene	9.27	92.7	70.6	135.4

* Advisory Limits Updated 3/95 , 80 - 120% minimum range.

Quantitation Report (QT Reviewed)

Data File : F:\J042701\2954J.D
Acq On : 27 Apr 01 16:10
Sample : DW QC CHECK STD(ICV)
Misc : 4/27/01
MS Integration Params: rteint.p
Quant Time: May 8 8:42 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	6.35	96	912677m	10.00 UG/L	0.00
22) 1-CHLORO-2-BROMOPROPANE	9.84	77	445860m	10.00 UG/L	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	5.81	65	76346	2.54 UG/L	0.00
Spiked Amount 5.000			Recovery	= 50.80%	
33) Toluene-d8	9.12	98	360213m	1.91 UG/L	0.00
Spiked Amount 5.000			Recovery	= 38.20%	
51) 4-Bromofluorobenzene	15.11	95	155269	1.78 UG/L	0.00
Spiked Amount 5.000			Recovery	= 35.60%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	575376	11.04 UG/L	100
3) Chloromethane	1.76	50	330381	8.66 UG/L	100
4) Vinyl Chloride	1.85	62	403866	10.17 UG/L	96
5) Bromomethane	2.12	94	286122	10.68 UG/L	97
6) Chloroethane	2.20	64	229940	8.05 UG/L	99
7) Trichlorofluoromethane	2.43	101	1272466	12.31 UG/L	99
8) 1,1-Dichloroethene	2.88	96	550482	10.79 UG/L	87
9) Acetone	2.87	43	371	0.26 UG/L #	100
10) Methylene Chloride	3.32	84	403441	11.31 UG/L	79
11) 1,2-Dichloroethene(trans)	3.60	96	572732	10.07 UG/L	99
12) 1,1-Dichloroethane	4.04	63	946710	10.99 UG/L	100
14) 2,2-Dichloropropane	4.74	77	1005171	9.91 UG/L	100
15) 2-butanone	4.74	43	1255	0.37 UG/L #	100
16) 1,2-Dichloroethene(cis)	4.73	96	470290	9.41 UG/L	88
17) Chloroform	5.13	83	948943	10.91 UG/L	98
18) Tetrahydrofuran	3.40	42	3243	2.01 UG/L	100
19) Bromochloromethane	5.02	128	153261	9.81 UG/L	95
20) 1,1,1-Trichloroethane	5.41	97	1099439	10.55 UG/L	97
23) 1,1-Dichloropropene	5.64	110	306609	10.45 UG/L	100
24) Carbon Tetrachloride	5.65	117	1117504	11.11 UG/L	99
25) 1,2-Dichloroethane	5.94	62	322073	10.36 UG/L	99
26) Benzene	5.93	78	1658305	10.57 UG/L	100
27) Trichloroethene	6.92	130	798293	11.54 UG/L	98
28) 1,2-Dichloropropane	7.27	76	205226	9.74 UG/L	100
29) Bromodichloromethane	7.76	83	675628	9.61 UG/L	99
30) Dibromomethane	7.47	93	169843	8.88 UG/L	91
31) cis-1,3-Dichloropropene	8.58	75	499027	8.24 UG/L	100
34) Toluene	9.25	91	1857798	8.53 UG/L	100
36) trans-1,3-Dichloropropene	9.70	75	319693m	8.22 UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\J042701\2954J.D
Acq On : 27 Apr 01 16:10
Sample : DW QC CHECK STD(ICV)
Misc : 4/27/01
MS Integration Params: rteint.p
Quant Time: May 8 8:42 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
37) 1,1,2-Trichloroethane	10.05	97	198494m	8.69 UG/L	69
38) 1,3-Dichloropropane	10.40	76	320259m	8.13 UG/L	100
39) Tetrachloroethene	10.37	166	951489	8.86 UG/L	98
40) Dibromochloromethane	10.88	129	364962	9.62 UG/L	100
41) 1,2-Dibromomethane	11.11	107	218354	8.24 UG/L	99
42) Chlorobenzene	12.27	112	1026092m	8.26 UG/L	100
43) 1,1,1,2-Tetrachloroethane	12.48	131	442133	8.68 UG/L	100
44) Ethyl Benzene	12.57	106	660522	8.47 UG/L	98
45) m,p-Xylene	12.89	106	1708190	17.61 UG/L	99
46) o-Xylene	13.82	106	721779	8.83 UG/L	100
47) Styrene	13.86	104	1056007	8.84 UG/L #	79
48) Bromoform	14.23	173	210491	8.58 UG/L	100
49) Isopropylbenzene	14.78	105	2529407	8.81 UG/L	100
50) 1,1,2,2-Tetrachloroethane	15.55	83	222332	8.29 UG/L	96
52) 1,2,3-Trichloropropane	15.59	75	165889m	9.47 UG/L	81
53) n-Propylbenzene	15.84	92	372136	9.18 UG/L	95
54) Bromobenzene	15.44	77	880270m	8.15 UG/L	94
55) 1,3,5-Trimethylbenzene	16.35	105	1966235	9.27 UG/L	100
56) 2-Chlorotoluene	15.99	126	641973	11.19 UG/L	100
57) 4-Chlorotoluene	16.30	126	576996	10.60 UG/L	100
58) t-Butylbenzene	17.18	119	2245045	9.53 UG/L	100
59) 1,2,4-Trimethylbenzene	17.32	105	1729740	8.75 UG/L	100
60) sec-Butylbenzene	17.78	105	3546877	10.02 UG/L	100
61) p-Isopropyltoluene	18.21	119	2684680	9.92 UG/L	100
62) 1,3-Dichlorobenzene	17.96	146	1024873	9.09 UG/L	100
63) 1,4-Dichlorobenzene	18.21	146	976066	9.29 UG/L	100
64) n-Butylbenzene	19.34	92	1731348	10.47 UG/L	97
65) 1,2-Dichlorobenzene	19.19	146	745825	9.11 UG/L	100
66) 1,2-Dibromochloropropane	21.34	157	55645	9.97 UG/L	100
67) 1,2,4-Trichlorobenzene	23.70	180	499939m	7.88 UG/L	100
68) Hexachlorobutadiene	24.25	225	556072m	5.94 UG/L	100
69) Naphthalene	24.26	128	333275	9.75 UG/L	100
70) 1,2,3-Trichlorobenzene	24.88	180	338251	8.00 UG/L	100

(#) = qualifier out of range (m) = manual integration

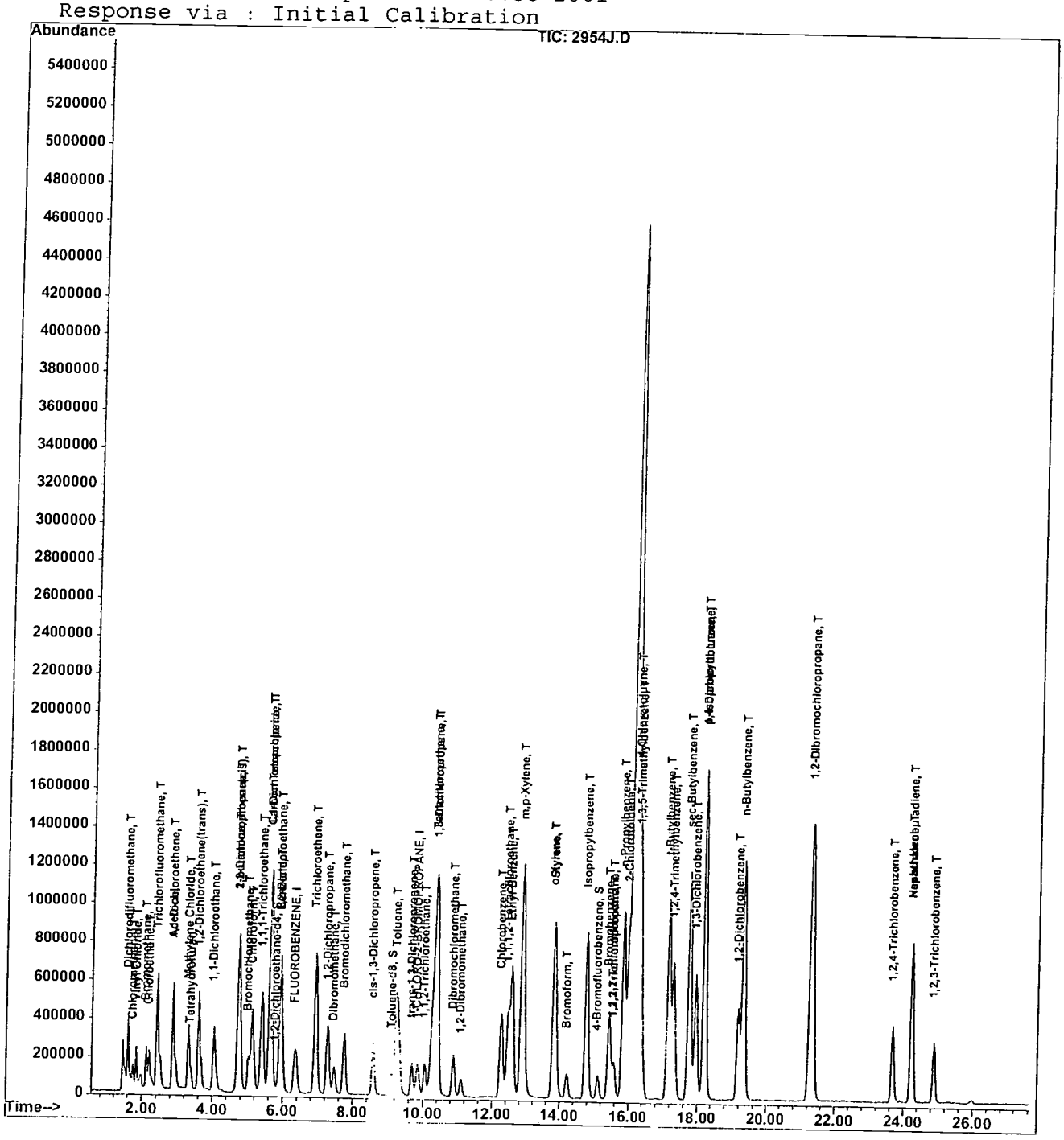
Quantitation Report

Data File : F:\J042701\2954J.D
Acq On : 27 Apr 01 16:10
Sample : DW QC CHECK STD(ICV)
Misc : 4/27/01
MS Integration Params: rteint.p
Quant Time: May 8 8:42 2001

Vial: 1
Operator: REGI
Inst : GCMS#9
Multiplr: 1.00

Quant Results File: DWJ.RES

Method : F:\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



2954J.D DWJ.M Tue May 08 08:42:17 2001 RPT01 Page 3

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: HERITAGE Contract: _____

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

Lab File ID: 4674H.D DFTPP Injection Date: 05/29/01

Instrument ID: #8 DFTPP Injection Time: 16:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	23.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	39.4
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	43.1
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	6.3
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 0.75% of mass 198	1.9
441	Present, but less than mass 443	14.5
442	40.0 - 110.0% of mass 198	84.4
443	15.0 - 24.0% of mass 442	16.2 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

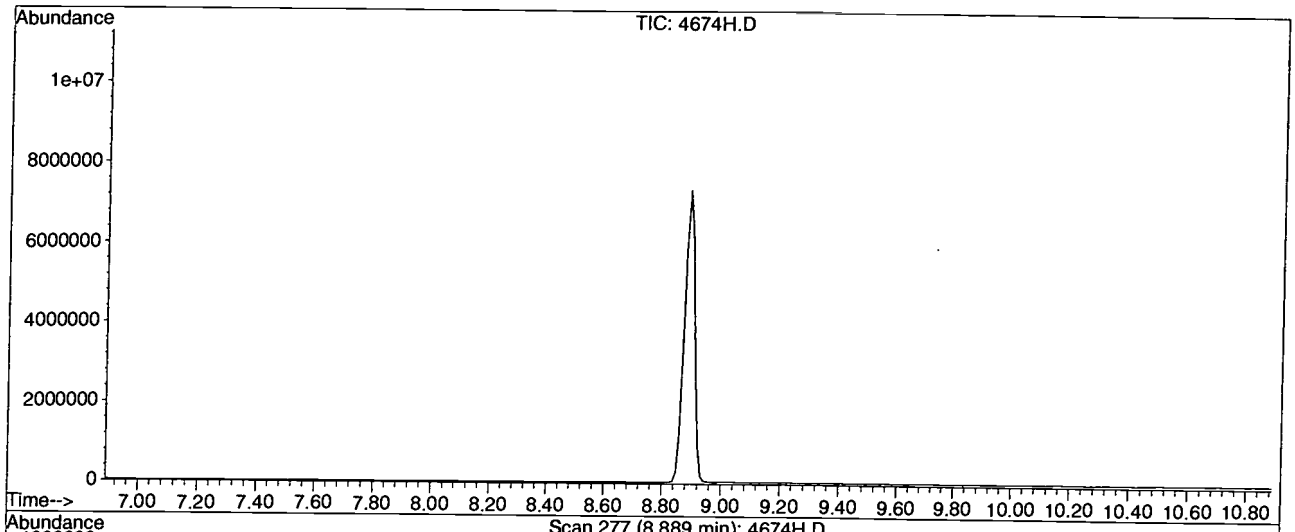
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD 0.1	SSTD 0.1	4676H.D	05/29/01	17:32
02	SSTD 0.5	SSTD 0.5	4677H.D	05/29/01	18:25
03	SSTD 1.0	SSTD 1.0	4678H.D	05/29/01	19:17
04	SSTD 5.0	SSTD 5.0	4679H.D	05/29/01	20:09
05	SSTD 10	SSTD 10	4680H.D	05/29/01	21:02
06	SSTD 0.02	SSTD 0.02	4681H.D	05/29/01	21:54
07	SSTD 2.0	SSTD 2.0	4682H.D	05/29/01	22:45
08	A552113	A552113	4684H.D	05/30/01	00:30
09	A554400	A554400	4685H.D	05/30/01	01:22
1240474 10	A554400 MS	A554400 MS	4686H.D	05/30/01	02:14
1240475 11	SBLK2241-610	SBLK2241-610	4687H.D	05/30/01	03:06
1240476 12	LCS #829	LCS #829	4688H.D	05/30/01	03:58

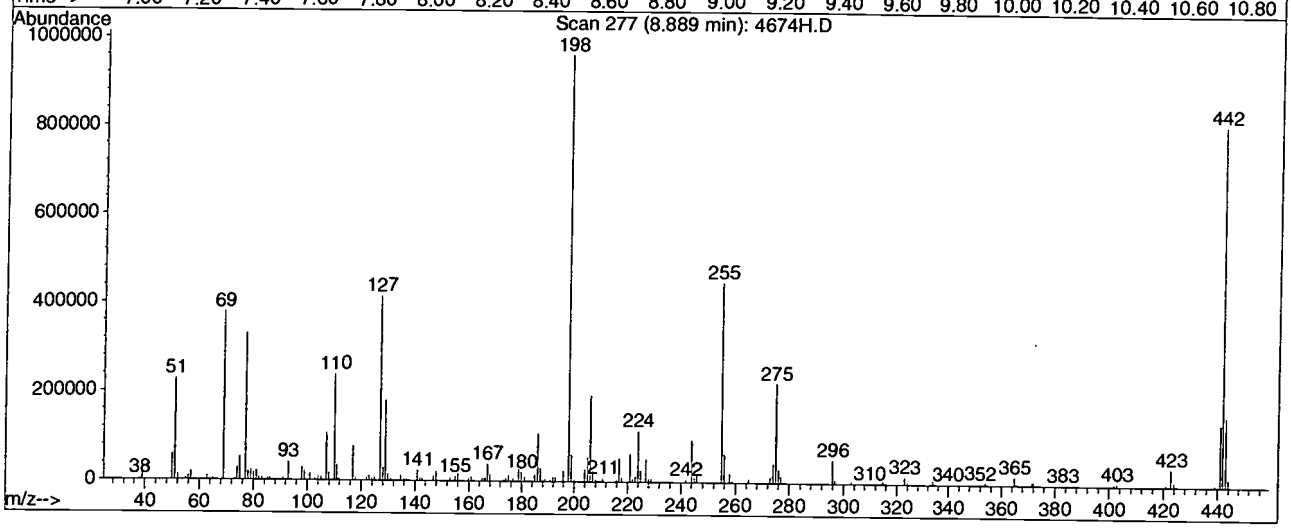
✓ LAS 5.31-1

DFTPP

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
MS Integration Params: rteint.p
Method : G:\HPCHEM\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 277

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.7	227712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.4	379520	PASS
70	69	0.00	2	0.6	2435	PASS
127	198	10	80	43.1	414848	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	962624	PASS
199	198	5	9	6.3	61056	PASS
275	198	10	60	23.2	223040	PASS
365	198	1	100	1.9	18640	PASS
441	443	0.01	100	89.3	139392	PASS
442	198	50	150	84.4	812480	PASS
443	442	15	24	19.2	156032	PASS

✓ LAS 5-31-1

4674H.D DFTPPI.M Wed May 30 16:09:41 2001

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.05	3042	52.05	12461	64.15	832	77.95	19728
38.95	15540	52.95	823	64.95	5542	78.95	22584
39.85	600	54.95	4914	67.05	700	79.95	17848
41.05	2397	55.95	9773	68.95	379520	80.95	22192
41.95	824	56.95	19280	69.95	2435	81.95	6700
43.15	2509	57.85	1308	71.05	1444	83.05	6829
43.85	2173	59.05	669	71.85	953	83.85	1244
44.95	1252	59.95	766	73.15	2999	85.05	6122
48.95	1311	60.95	2497	73.95	28520	85.95	6139
49.95	57728	62.05	2644	74.95	52808	87.05	2193
50.95	227712	62.95	10087	76.95	330112	88.05	682

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.95	6219	102.95	4229	118.80	1634	131.80	1445
91.95	5267	103.95	9485	119.70	1436	132.80	1051
92.95	40920	105.05	8056	122.00	6684	133.80	4072
94.05	3242	106.95	106552	122.90	11532	134.80	12520
94.85	1424	107.95	17216	123.90	5007	136.00	4613
96.05	2155	109.95	238848	124.90	6956	136.90	4552
97.95	29056	110.90	34608	126.90	414848	137.60	1768
98.95	20896	111.80	4051	128.00	29568	138.80	863
99.95	2314	115.10	1072	128.90	181120	139.20	791
100.95	15471	116.90	77360	129.90	14299	140.90	23920
102.05	836	117.90	5768	131.00	4373	141.90	7308

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.80	5365	153.90	4726	166.10	7224	176.80	6539
143.90	533	154.90	10247	167.00	38976	178.90	28880
144.80	1905	156.00	16768	168.00	14853	179.90	20528
145.90	3099	157.00	3683	169.00	3319	181.00	9800
146.90	11143	157.90	3536	170.00	1977	182.10	1578
147.90	21184	159.90	6555	171.00	1570	182.90	1887
148.90	3911	160.90	9129	172.00	2570	183.90	3727
150.00	1269	162.00	2420	173.10	3732	185.00	15922
150.90	2238	163.10	594	174.00	7064	186.00	108312
151.80	2713	163.90	994	175.00	13210	187.00	29568
152.90	6676	165.00	6754	175.90	3482	188.00	2781

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.90	6751	201.50	3164	214.75	2240	227.95	7319
189.90	1001	203.00	4612	215.95	5546	228.85	8087
191.00	4886	204.00	28032	216.85	53320	229.85	1980
191.90	10387	205.00	54536	217.85	9086	230.95	4021
192.90	9865	206.00	193600	218.75	706	232.75	635
193.90	2318	206.95	24312	220.95	63264	233.85	2707
194.70	1088	207.95	5178	221.95	7285	234.85	3925
195.90	23936	208.95	1606	222.95	12360	235.85	1821
197.90	962624	209.95	2997	223.95	113936	236.85	3127
198.90	61056	210.75	8540	224.95	26904	237.85	511
200.00	4437	212.55	504	226.85	51528	239.05	1881

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
239.75	1178	251.85	1727	267.15	717	282.05	682
240.85	2484	252.95	3240	269.95	895	282.85	2130
241.85	5976	254.85	449984	271.05	1188	283.85	1726
243.95	94560	255.85	63760	271.85	962	284.95	1754
244.95	11054	257.95	21600	272.85	14079	285.95	1140
245.85	15639	258.85	4492	273.95	43136	288.75	667
246.85	2585	260.15	921	274.95	223040	291.95	886
247.85	1609	260.95	785	275.95	31424	292.95	2892
248.85	3433	261.85	505	276.85	14196	293.95	1373
249.65	784	264.85	8492	277.75	2572	295.85	53040

250.85	1039	266.05	1283	278.75	1181	296.85	7958

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.95	553	315.80	2894	334.90	3154	365.80	3723
301.05	599	320.90	1186	336.00	695	369.80	995
301.85	1055	321.90	1758	339.70	742	370.80	1678
302.90	5542	322.90	15939	340.90	1182	371.90	8351
303.80	1488	324.00	5037	341.80	914	372.80	2275
307.90	789	324.90	633	345.80	3226	373.90	714
308.70	883	326.80	3826	351.90	4517	382.90	1937
309.80	970	327.90	2462	352.80	3630	383.90	935
312.90	577	331.80	1467	353.90	6068	390.00	930
313.90	3155	333.00	1925	354.90	824	391.00	539
314.90	6434	333.90	8873	364.90	18640	391.90	761

Scan 277 (8.889 min): 4674H.D
DFTPP

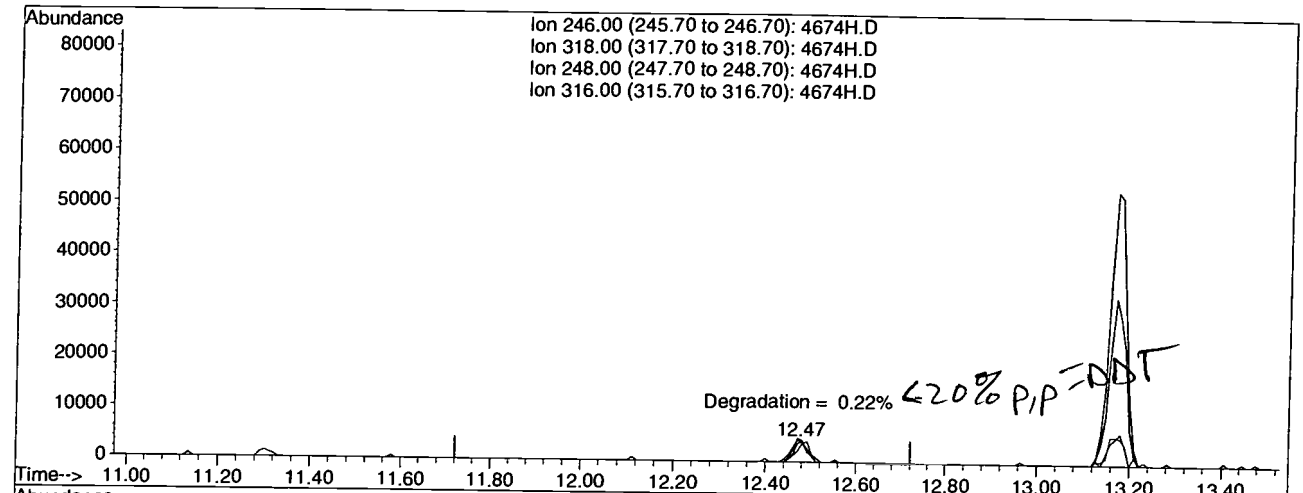
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.65	624	437.25	2208				
401.85	5176	438.95	5381				
402.85	5683	440.95	139392				
403.85	1530	441.85	812480				
419.75	560	442.85	156032				
420.85	5537	443.85	17504				
422.85	39584	444.85	1206				
423.85	9879	445.85	906				
424.95	1401						
433.95	507						
435.55	601						

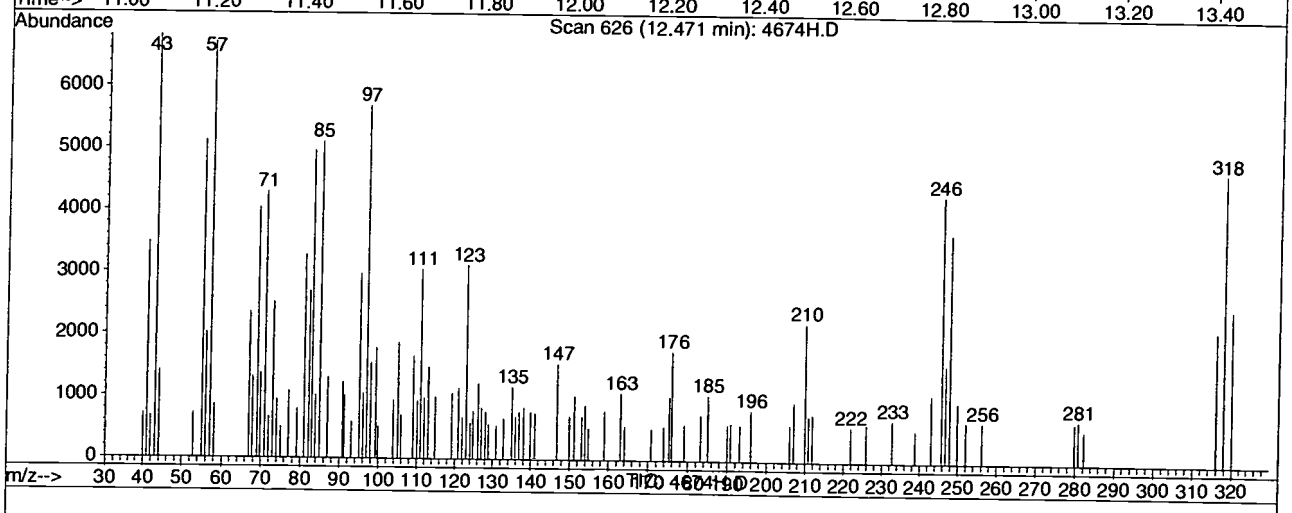
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(2) p,p'-DDE (M)

12.47min 0.07ug/ml

response 11782

Ion	Exp%	Act%
246.00	100	100
318.00	64.70	80.93#
248.00	61.60	70.27
316.00	51.20	55.43

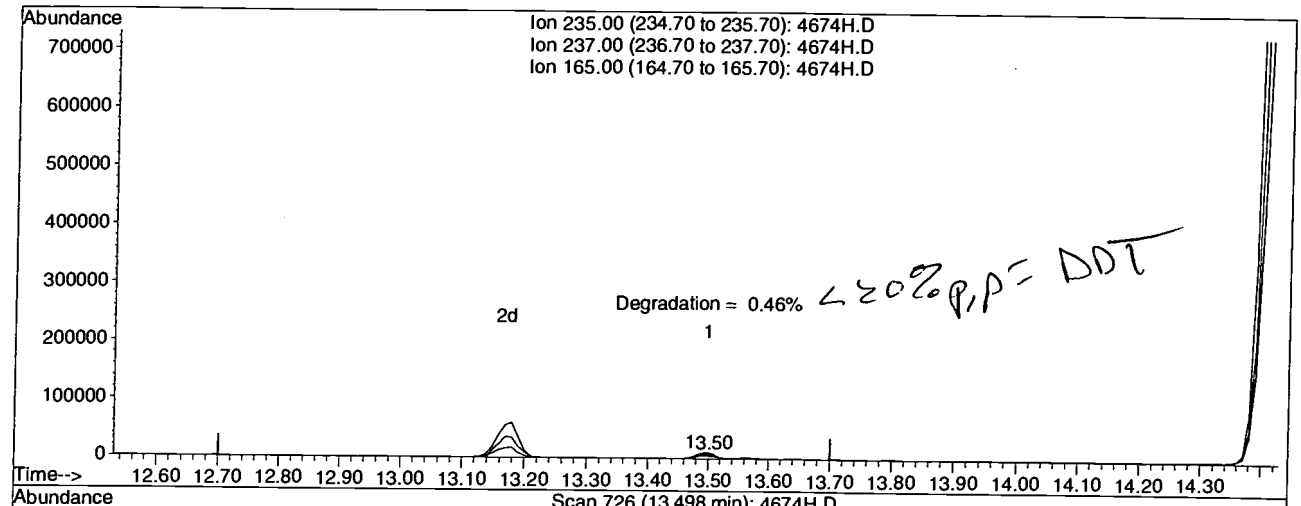
4674H.D DFTPPI.M Wed May 30 16:10:15 2001

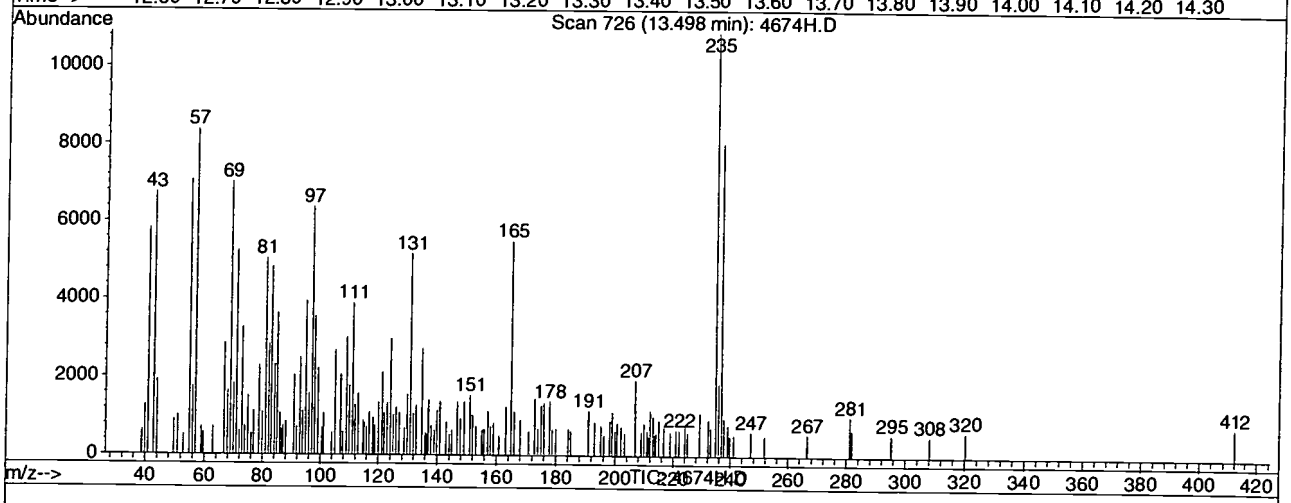
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(4) p,p'-DDD (M)

13.50min 0.10ug/ml

response 25879

Ion	Exp%	Act%
235.00	100	100
237.00	66.60	67.45
165.00	48.60	47.14
0.00	0.00	0.00

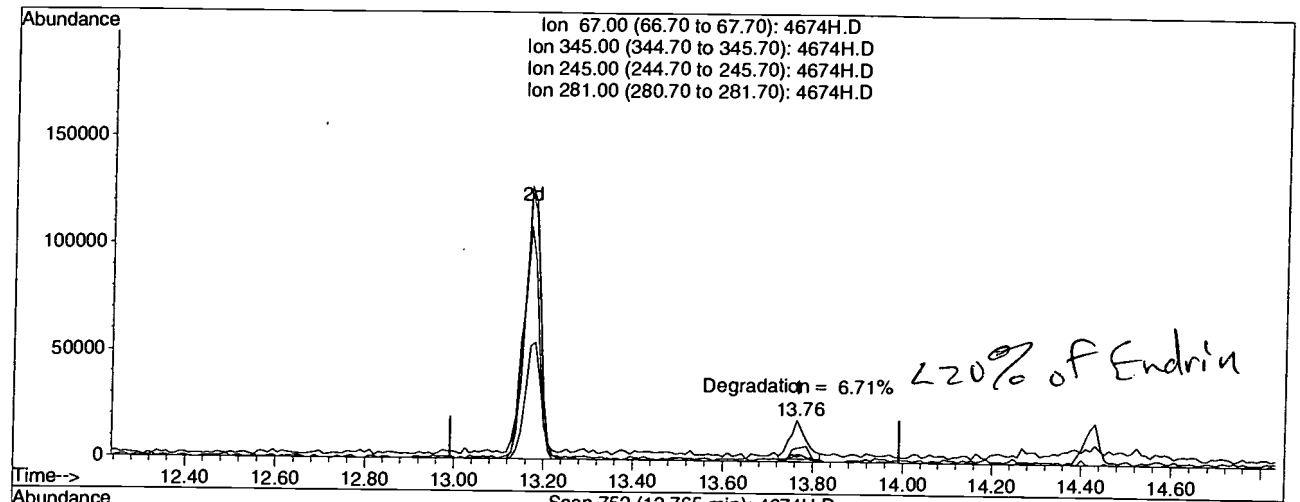
4674H.D DFTPPI.M Wed May 30 16:10:38 2001

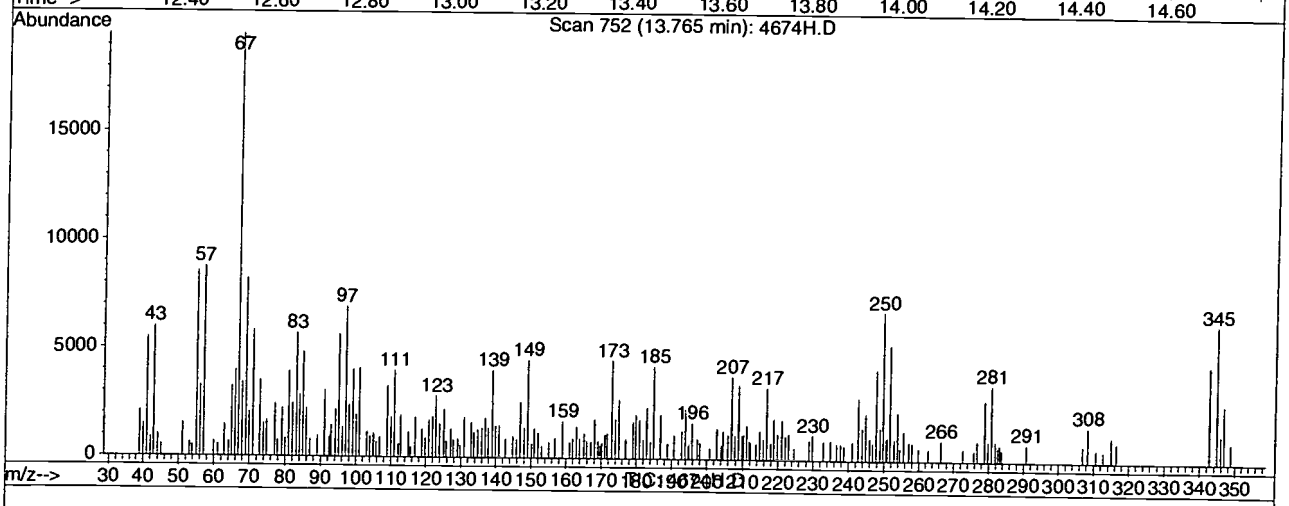
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(5) Endrin aldehyde (M)

13.76min 1.18ug/ml

response 45302

Ion	Exp%	Act%
67.00	100	100
345.00	63.90	43.93#
245.00	49.00	0.00#
281.00	46.90	21.71#

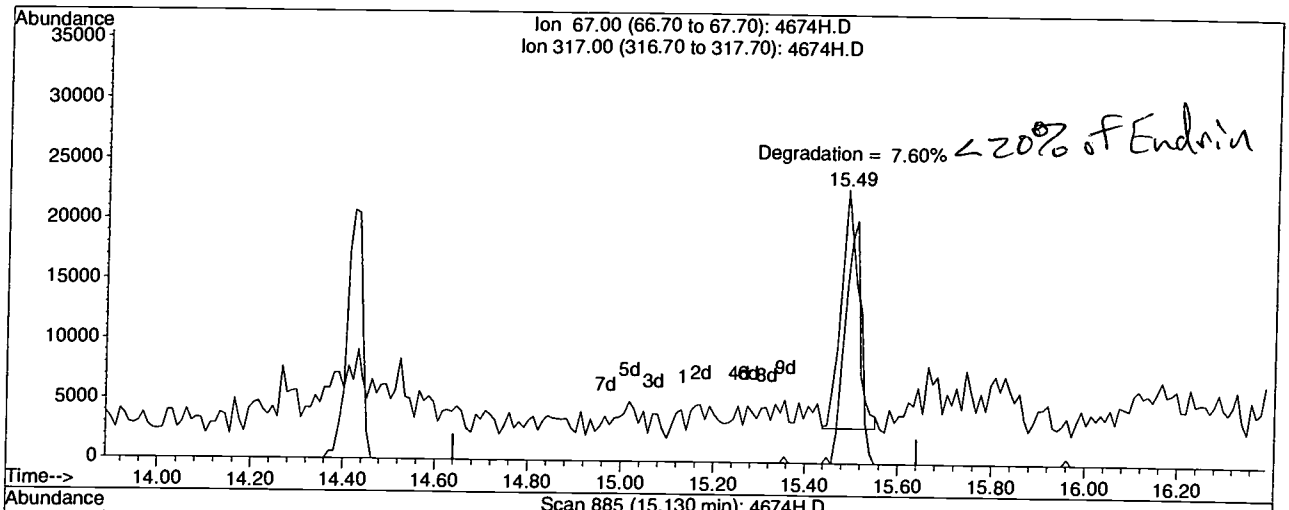
4674H.D DFTPPI.M Wed May 30 16:11:00 2001

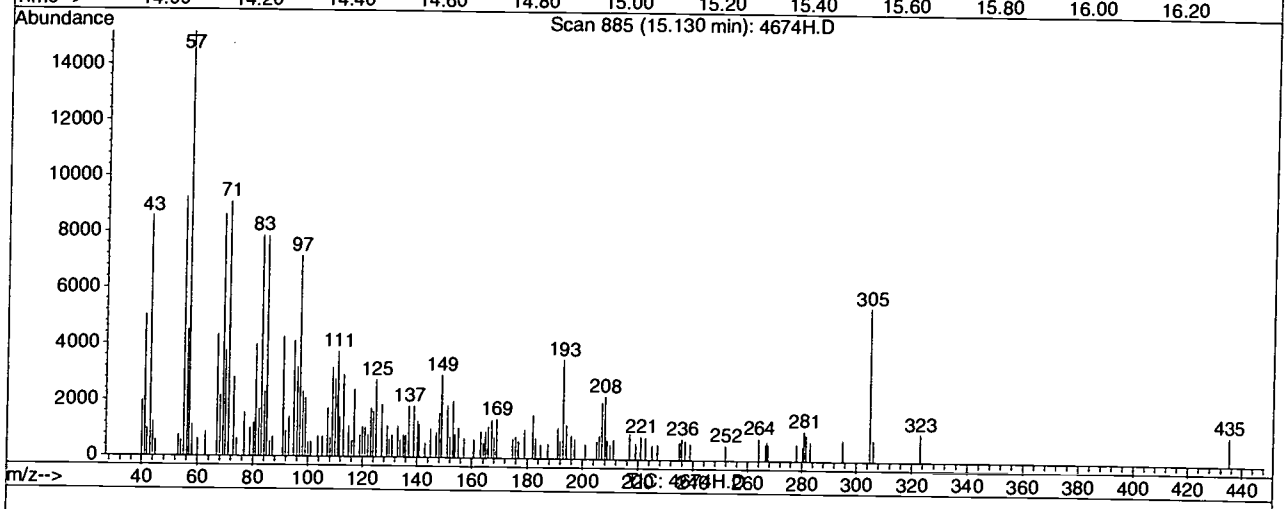
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Single Level Calibration





(7) Endrin Ketone

15.13min 0.00ug/ml

response 3903

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

4674H.D DFTPPI.M Wed May 30 16:11:18 2001

Response Factor Report GC/MS Ins

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration

(*): <10% of Total Targets >30% RSD.

Calibration Files

2.0	=4682H.D	0.1	=4676H.D	0.5	=4677H.D
1.0	=4678H.D	5.0	=4679H.D	10.0	=4680H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
1)I	ACENAPHTHENE-D10	----------ISTD----------							
2)M	Isophorone	0.9646	1.1343	0.8800	1.0177	0.9620	0.9983	0.9928	8.4#
3)S	1,3-dimethyl-2-nitr	0.2625	0.2270	0.2424	0.2643	0.2457	0.2624	0.2507	6.0#
4)M	Dichlorvos	0.6835	0.7146	0.6028	0.7075	0.6842	0.7785	0.6952	8.2#
5)M	Hexachlorocyclopent	0.2249	0.1358	0.1867	0.2376	0.2236	0.2401	0.2081	19.3#
6)M	EPTC	0.4717	0.4730	0.4614	0.5104	0.4703	0.4805	0.4779	3.6#
7)M	Mevinphos	0.7676	0.6631	0.6971	0.7892	0.8729	0.9087	0.7831	12.2#
8)M	Butylate	0.3984	0.4121	0.3898	0.4332	0.3764	0.3953	0.4009	4.9#
9)M	Vernolate	0.5570	0.5969	0.5198	0.5669	0.5213	0.5409	0.5505	5.4#
10)m	Terrazole	0.1865	0.1802	0.1709	0.1743	0.1781	0.2067	0.1828	7.0#
11)M	Dimethylphthalate	1.3269	1.3483	1.2855	1.3958	1.2295	1.2717	1.3096	4.5#
12)M	Pebulate	0.5461	0.5428	0.5524	0.6206	0.5173	0.5509	0.5550	6.2#
13)M	2,6-Dinitrotoluene	0.1264	0.1230	0.1269	0.1339	0.1670	0.1957	0.1455	20.2#
14)M	Acenaphthylene	1.6479	1.7428	1.5449	1.7002	1.5026	1.5876	1.6210	5.7#
15)M	Chloroneb	0.4979	0.5250	0.4818	0.5612	0.4862	0.4783	0.5051	6.4#
16)M	2-Chlorobiphenyl	1.0312	1.1155	1.0222	1.1439	0.9753	0.9781	1.0444	6.7#
17)M	Pentachlorobenzene	0.3423	0.3021	0.3417	0.3851	0.3268	0.3313	0.3382	8.0#
18)M	Tebuthiuron	0.1358	0.1160	0.1067	0.1450	0.1998	0.2507	0.1590	34.9# (*)
19)M	2,4-Dinitrotoluene	0.0921	0.1090	0.0847	0.0956	0.1369	0.1712	0.1149	28.8#
20)M	Molinate	0.6701	0.7059	0.6336	0.7311	0.6263	0.6976	0.6774	6.2#
21)M	Diethylphthalate	1.2672	1.4142	1.1397	1.3351	1.1444	1.2028	1.2506	8.8#
22)M	Fluorene	1.1509	1.1492	1.0558	1.1943	1.0336	1.1120	1.1159	5.5#
23)M	Propachlor	0.6267	0.6308	0.5586	0.6426	0.5852	0.6443	0.6147	5.7#
24)M	Ethoprop	0.3233	0.2879	0.2932	0.3471	0.3216	0.3530	0.3210	8.3#
25)M	Cycloate	0.5640	0.6030	0.5458	0.6224	0.5335	0.5846	0.5755	5.9#
26)M	Chlorpropham	0.3355	0.3162	0.3022	0.3368	0.3245	0.3567	0.3287	5.7#
27)M	Trifluralin	0.2732	0.1928	0.1969	0.2642	0.3272	0.3813	0.2726	26.9#
28)M	alpha-BHC	0.2337	0.2019	0.1969	0.2511	0.2171	0.2311	0.2220	9.3#
29)M	2,3-Dichlorobipheny	0.6906	0.6593	0.6306	0.7574	0.6357	0.6788	0.6754	6.9#
30)I	PHENANTHRENE-D10	----------ISTD----------							
31)M	Hexachlorobenzene	0.4728	0.4947	0.4331	0.4580	0.4239	0.4059	0.4480	7.4#
32)M	Atraton	0.2365	0.1475	0.1919	0.2210	0.2514	0.2725	0.2201	20.4#
33)M	Prometon	0.2839	0.2216	0.2298	0.2568	0.2954	0.2916	0.2632	12.2#
34)M	Simazine	0.1640	0.1294	0.1483	0.1722	0.1686	0.1600	0.1571	10.1#
35)M	Atrazine	0.2739	0.2700	0.2351	0.2877	0.2787	0.2758	0.2702	6.7#
36)M	beta-BHC	0.1770	0.1861	0.1224	0.1331	0.1261	0.1248	0.1449	19.8#
37)M	Propazine	0.3026	0.2897	0.2725	0.3066	0.2899	0.3017	0.2938	4.3#
38)M	Pentachlorophenol	0.0339		0.0194	0.0322	0.0744	0.0929	0.0505	62.1# (*)
39)M	g-BHC (Lindane)	0.1398	0.2159	0.1610	0.1812	0.1691	0.1572	0.1707	15.3#
40)M	Terbufos	0.3633	0.3249	0.3134	0.3755	0.3706	0.3535	0.3502	7.3#
41)M	Pronamide	0.4169	0.3658	0.3314	0.3883	0.4256	0.4314	0.3932	10.0#
42)M	Diazinon	0.2703	0.2886	0.2553	0.2741	0.2687	0.2519	0.2682	5.0#
43)M	Phenanthrene	1.1654	1.3786	1.1748	1.2622	1.1133	1.1165	1.2018	8.5#
44)M	Chlorothalonil	0.2821	0.1623	0.2317	0.2632	0.2706	0.2787	0.2481	18.4#
45)M	Disulfoton	0.4978	0.4219	0.5035	0.5363	0.5186	0.4927	0.4951	7.9#

(#) = Out of Range (Advisory for non CCC, SPCC)

Response Factor Report GC/MS Ins

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration

Calibration Files

2.0	=4682H.D	0.1	=4676H.D	0.5	=4677H.D
1.0	=4678H.D	5.0	=4679H.D	10.0	=4680H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
46)M	Anthracene	1.0472	1.0739	0.9344	1.0565	1.0040	0.9945	1.0184	5.0#
47)m	Methyl paraoxon	0.0799	0.0867	0.0737	0.0735	0.1045	0.1345	0.0921	25.8#

48)M	Terbacil	0.2165	0.1537	0.1770	0.1895	0.2372	0.2573	0.2052	19.0#
49)M	delta-BHC	0.1218	0.1071	0.1064	0.1169	0.1126	0.1171	0.1137	5.3#
50)M	Trichlorobiphenyl	0.4543	0.4263	0.4072	0.4438	0.4364	0.4134	0.4302	4.2#
51)M	Acetochlor	0.1772	0.1418	0.1575	0.1653	0.1677	0.1548	0.1607	7.6#
52)M	Metribuzin	0.1867	0.1385	0.1394	0.1655	0.2061	0.2099	0.1743	18.2#
53)M	Alachlor	0.2403	0.2126	0.2194	0.2370	0.2344	0.2164	0.2267	5.3#
54)M	Simetryn	0.3577	0.2324	0.2639	0.3180	0.3533	0.3536	0.3131	17.0#
55)M	Ametryn	0.3127	0.2357	0.2548	0.3042	0.3181	0.3088	0.2891	12.0#
56)M	Heptachlor	0.2026	0.2363	0.2047	0.1975	0.1990	0.1765	0.2028	9.5#
57)M	Prometryn	0.3888	0.3042	0.2970	0.3614	0.3767	0.3636	0.3486	11.1#
58)M	Terbutryn	0.3003	0.2113	0.2427	0.2775	0.3127	0.3100	0.2758	14.8#
59)M	Di-n-butyl phthalat	1.5472	1.7530	1.3413	1.5583	1.6310	1.4833	1.5524	8.9#
60)M	Bromacil	0.1160	0.0825	0.0793	0.1031	0.1589	0.2155	0.1259	41.7#
61)M	Tetrachlorobiphenyl	0.3023	0.2436	0.2662	0.3003	0.2954	0.2791	0.2811	8.2#
62)M	Aldrin	0.1632	0.1871	0.1556	0.1541	0.1471	0.1355	0.1571	11.1#
63)M	Metolachlor	0.7339	0.5857	0.6175	0.7113	0.7531	0.7002	0.6836	9.8#
64)M	Chlorpyrifos	0.0955	0.0915	0.0750	0.0922	0.0970	0.0941	0.0909	8.9#
65)M	DCPA	0.3056	0.3135	0.2617	0.2875	0.2860	0.2856	0.2900	6.2#
66)M	Cyanazine	0.0136	0.0099	0.0151	0.0096	0.0139	0.0108	0.0122	19.1#
67)M	Triadimefon	0.2360	0.2394	0.1812	0.2072	0.2834	0.2967	0.2407	18.2#
68)M	Diphenamid	0.4857	0.3976	0.4002	0.4449	0.5146	0.5052	0.4580	11.3#
69)M	MGK 264-A	0.1814	0.2097	0.1566	0.1756	0.1836	0.1745	0.1802	9.6#
70)M	Pendimethalin	0.1225	0.0951	0.0832	0.0969	0.2004	0.2362	0.1391	45.8#
71)M	MGK 264-B	0.2291	0.2239	0.1919	0.2442	0.2387	0.2372	0.2275	8.3#
72)M	Heptachlor epoxide	0.1131	0.1305	0.1119	0.1088	0.1064	0.0954	0.1110	10.3#
73)M	Pentachlorobiphenyl	0.2224	0.2090	0.2009	0.1954	0.2018	0.2015	0.2052	4.6#
74)M	g-Chlordane	0.1441	0.1000	0.1317	0.1323	0.1377	0.1299	0.1293	11.8#
75)M	Stirofos	0.2004	0.1560	0.1558	0.1732	0.2311	0.2516	0.1947	20.6#
76)M	Butachlor	0.2317	0.1833	0.1763	0.2037	0.2537	0.2518	0.2168	15.6#
77)M	a-Chlordane	0.1388	0.1459	0.1293	0.1375	0.1230	0.1209	0.1326	7.4#
78)M	Endosulfan I	0.0674	0.0622	0.0583	0.0568	0.0685	0.0680	0.0635	8.2#
79)M	trans-Nonachlor	0.1389	0.1342	0.1241	0.1346	0.1234	0.1164	0.1286	6.7#
80)M	Fenamiphos	0.0661	0.0616	0.0473	0.0507	0.0993	0.1194	0.0741	39.0#
81)M	Napropamide	0.3356	0.3336	0.2716	0.2957	0.3623	0.3667	0.3276	11.4#
82)M	Tricyclazole	0.0382	0.0227	0.0249	0.0234	0.0575	0.0813	0.0413	57.3#
83)M	p,p'-DDE	0.2300	0.1992	0.1933	0.2062	0.2151	0.2180	0.2103	6.4#
84)M	Hexachlorobiphenyl	0.1829	0.1684	0.1607	0.1694	0.1675	0.1609	0.1683	4.8#
85)I	CHRYSENE-D12	----------ISTD----------							
86)M	Pyrene	2.1157	2.6695	2.2313	2.5175	1.9962	2.0204	2.2584	12.2#
87)M	Dieldrin	0.4220	0.6928	0.4954	0.5473	0.3946	0.3613	0.4856	25.2#
88)M	Carboxin	0.5303	0.5659	0.4791	0.5675	0.5768	0.5686	0.5480	6.8#
89)M	Endrin	0.0947	0.0480	0.1181	0.1318	0.0983	0.1007	0.0986	28.9#
90)M	Chlorobenzilate	0.3944	0.4889	0.3844	0.4758	0.4654	0.5177	0.4545	11.8#

(#) = Out of Range (Advisory for non CCC, SPCC)

Response Factor Report GC/MS Ins

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration

Calibration Files

2.0	=4682H.D	0.1	=4676H.D	0.5	=4677H.D
1.0	=4678H.D	5.0	=4679H.D	10.0	=4680H.D

	Compound	2.0	0.1	0.5	1.0	5.0	10.0	Avg	%RSD
91)M	Endosulfan II	0.0779	0.0811	0.0736	0.1040	0.0753	0.0777	0.0816	13.8#
92)M	p,p'-DDD	0.7482	0.8090	0.7214	0.8568	0.7325	0.7449	0.7688	6.9#
93)M	Endrin aldehyde	0.1173	0.2364	0.1171	0.1441	0.1274	0.1234	0.1443	32.0#
94)M	Norflurazon	0.1660	0.1247	0.1503	0.1334	0.2031	0.2284	0.1676	24.3#
95)M	Butylbenzylphthalat	0.7591	0.9961	0.7512	0.8436	0.7814	0.8012	0.8221	11.1#
96)M	Endosulfan sulfate	0.1209	0.0192	0.0857	0.0993	0.1201	0.1186	0.0940	41.8#
97)M	p,p'-DDT	0.5256	0.4708	0.4561	0.5252	0.5482	0.6046	0.5217	10.3#
98)M	Hexazinone	0.4751	0.2662	0.3739	0.4599	0.5594	0.6106	0.4575	27.2#
99)M	Di(2-ethylhexyl)adi	0.7221	0.7719	0.6400	0.8282	0.7565	0.7680	0.7478	8.4#
100)S	Triphenylphosphate	0.3162	0.2672	0.3037	0.3439	0.3308	0.3546	0.3194	9.9#
101)M	Heptachlorobiphenyl	0.1753	0.2113	0.1644	0.1948	0.1572	0.1694	0.1787	11.4#
102)M	Benz(a)anthracene	1.3360	1.6531	1.2377	1.4139	1.3185	1.3362	1.3826	10.4#
103)M	Octachlorobiphenyl	0.2066	0.2485	0.2200	0.2367	0.1918	0.1905	0.2157	11.0#
104)M	Methoxychlor	0.7849	0.7050	0.6756	0.8184	0.8841	0.9658	0.8056	13.5#
105)M	Chrysene	1.2115	1.3864	1.0927	1.2520	1.1955	1.1677	1.2176	8.1#
106)M	bis(2-Ethylhexyl)ph	0.9163	1.5971	0.9012	0.9633	0.9898	1.0053	1.0622	25.0#
107)M	Fenarimol	0.0935	0.1117	0.1138	0.1065	0.1377	0.1667	0.1216	21.7#
108)M	cis-Permethrin	1.0079	1.2661	0.9107	1.0248	1.0856	1.1656	1.0768	11.7#

109)M	trans-Permethrin	0.9324	1.1015	1.0890	1.0490	1.0760	1.2004	1.0747	8.1#
110)M	Benzo(b)fluoranthen	0.8885	0.8085	0.7161	0.8672	0.8828	0.9608	0.8540	9.8#
111)M	Benzo(k)fluoranthen	0.8548	0.9406	0.7897	0.7995	0.8960	0.9215	0.8670	7.3#
112)M	~~Benzo(a)pyrene~~	~~0.6413~~	~~0.6959~~	~~0.5459~~	~~0.6023~~	~~0.6784~~	~~0.7382~~	~~0.6503~~	~~10.6#~~
113)M	Fluridone	0.0729	0.0919	0.0921	0.1060	0.1651	0.2431	0.1285	50.1#
114)S	Perylene-d12	0.6657	0.6721	0.6038	0.6295	0.7376	0.7489	0.6763	8.5#
115)M	Indeno(1,2,3-cd)pyr	0.4128	0.6129	0.4579	0.5131	0.5224	0.5699	0.5148	14.1#
116)M	Dibenz(a,h)anthrace	0.3782	0.4243	0.3280	0.3849	0.4715	0.5352	0.4204	17.6#
117)M	Benzo(g,h,i)perylen	0.4562	0.4971	0.4586	0.4877	0.5428	0.6034	0.5076	11.1#

118)I p-Terphenyl-d14 ----------ISTD----------

(#) = Out of Range (Advisory for non CCC, SPCC) 0 SPCC fail 0 CCC fail

DRINKWI.M Wed May 30 12:57:29 2001

Average RSD= 13.93

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4676H.D
Acq On : 29 May 01 5:32 pm
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:04 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.66	164	1535284	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1594507	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.07	240	574879	5.00 ug/ml	0.01
118) p-Terphenyl-d14	26.30	244	1098723	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	6970	0.09 ug/ml	0.00
100) Triphenylphosphate	28.27	326	3072	0.08 ug/ml	0.01
114) Perylene-d12	32.74	264	7728	0.07 ug/ml	0.01
Target Compounds					Qvalue
2) Isophorone	14.15	82	34828	0.10 ug/ml#	89
4) Dichlorvos	15.77	109	21942	0.10 ug/ml#	84
5) Hexachlorocyclopentadiene	16.86	237	4170	0.06 ug/ml#	41
6) EPTC	17.14	128	14524	0.10 ug/ml#	16
7) Mevinphos	17.90	127	20362	0.08 ug/ml#	69
8) Butylate	17.96	146	12653	0.10 ug/ml#	21
9) Vernolate	18.16	128	18329	0.11 ug/ml#	61
10) Terrazole	18.21	211	5534	0.11 ug/ml	97
11) Dimethylphthalate	18.19	163	41400	0.09 ug/ml	100
12) Pebulate	18.31	128	16666	0.10 ug/ml#	29
13) 2,6-Dinitrotoluene	18.27	165	3778m	0.27 ug/ml	34
14) Acenaphthylene	18.36	152	53513	0.11 ug/ml	100
15) Chloroneb	18.81	191	16122	0.10 ug/ml	91
16) 2-Chlorobiphenyl	18.84	188	34252	0.10 ug/ml	100
17) Pentachlorobenzene	19.01	248	9277	0.08 ug/ml#	18
18) Tebuthiuron	19.01	156	3562	0.13 ug/ml#	83
19) 2,4-Dinitrotoluene	19.12	165	3348m	0.37 ug/ml	38
20) Molinate	19.26	126	21675	0.11 ug/ml#	78
21) Diethylphthalate	19.71	149	43423	0.11 ug/ml	100
22) Fluorene	19.86	166	35286	0.10 ug/ml	92
23) Propachlor	19.93	120	19369	0.11 ug/ml#	3
24) Ethoprop	20.24	158	8840	0.10 ug/ml#	33
25) Cycloate	20.29	154	18514	0.11 ug/ml#	16
26) Chlorpropham	20.46	127	9709	0.11 ug/ml#	71
27) Trifluralin	20.49	306	5920	0.24 ug/ml	98
28) alpha-BHC	21.02	181	6200	0.08 ug/ml#	65
29) 2,3-Dichlorobiphenyl	21.06	222	20245	0.09 ug/ml#	80
31) Hexachlorobenzene	21.10	284	15776	0.10 ug/ml#	86
32) Atraton	21.25	196	4703	0.06 ug/ml#	82
33) Prometon	21.36	210	7068	0.08 ug/ml#	71
34) Simazine	21.39	201	4128	0.07 ug/ml#	37
35) Atrazine	21.49	200	17220	0.20 ug/ml	100
36) beta-BHC	21.53	183	5935	0.13 ug/ml#	86
37) Propazine	21.56	214	9240	0.10 ug/ml#	62
38) Pentachlorophenol	22.14	266	286	0.01 ug/ml	95
39) g-BHC (Lindane)	21.74	181	6886	0.11 ug/ml#	62
40) Terbufos	21.80	231	10360	0.08 ug/ml#	9
41) Pronamide	21.86	173	11666	0.10 ug/ml#	83
42) Diazinon	21.89	137	9205	0.10 ug/ml#	91
43) Phenanthrene	22.10	178	43963	0.11 ug/ml	95
44) Chlorothalonil	22.07	266	5175m	0.05 ug/ml	58
45) Disulfoton	22.17	88	13456	0.09 ug/ml#	67
46) Anthracene	22.22	178	34246m	0.10 ug/ml	97
47) Methyl paraoxon	22.17	109	2765	0.17 ug/ml#	36

(#) = qualifier out of range (m) = manual integration
4676H.D DRINKWI.M Wed May 30 15:24:11 2001

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4676H.D
Acq On : 29 May 01 5:32 pm
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:04 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.16	161	4900	0.08 ug/ml#	39
49) delta-BHC	22.32	181	3416	0.08 ug/ml#	44
50) Trichlorobiphenyl	22.65	256	13595	0.09 ug/ml	100
51) Acetochlor	22.90	146	4521	0.09 ug/ml#	69
52) Metribuzin	22.95	198	4418	0.09 ug/ml	100
53) Alachlor	23.10	160	13557	0.20 ug/ml#	72
54) Simetryn	23.18	213	7410	0.07 ug/ml#	92
55) Ametryn	23.26	227	7516	0.08 ug/ml#	84
56) Heptachlor	23.32	100	7537	0.11 ug/ml#	59
57) Prometryn	23.32	241	9702	0.09 ug/ml	87
58) Terbutryn	23.59	226	6739	0.07 ug/ml#	85
59) Di-n-butyl phthalate	23.72	149	55904	0.11 ug/ml	97
60) Bromacil	23.65	205	2632	0.08 ug/ml#	69
61) Tetrachlorobiphenyl	23.87	292	7768	0.07 ug/ml	100
62) Aldrin	24.11	66	5967	0.09 ug/ml	92
63) Metolachlor	23.93	162	18679	0.09 ug/ml#	63
64) Chlorpyrifos	23.96	314	2918	0.09 ug/ml#	23
65) DCPA	24.08	301	9999	0.09 ug/ml#	88
66) Cyanazine	24.06	212	317m	0.06 ug/ml	1
67) Triadimefon	24.20	57	7634	0.09 ug/ml#	64
68) Diphenamid	24.46	167	12678	0.08 ug/ml#	65
69) MGK 264-A	24.49	111	3343	0.05 ug/ml#	54
70) Pendimethalin	24.68	252	3033	0.26 ug/ml#	50
71) MGK 264-B	24.77	164	3570	0.05 ug/ml#	73
72) Heptachlor epoxide	24.95	81	4163	0.10 ug/ml#	80
73) Pentachlorobiphenyl	24.99	326	6665	0.08 ug/ml	100
74) g-Chlordane	25.48	375	3190	0.06 ug/ml	100
75) Stirofos	25.46	109	4975	0.06 ug/ml	92
76) Butachlor	25.53	176	5844	0.12 ug/ml	100
77) a-Chlordane	25.73	373	4654	0.09 ug/ml#	77
78) Endosulfan I	25.76	195	1982	0.08 ug/ml#	72
79) trans-Nonachlor	25.81	409	4279	0.08 ug/ml#	90
80) Fenamiphos	25.79	303	1963m	0.06 ug/ml	86
81) Napropamide	25.86	72	10637	0.10 ug/ml#	72
82) Tricyclazole	26.14	189	724m	0.07 ug/ml	18
83) p,p'-DDE	26.17	246	6353	0.08 ug/ml#	74
84) Hexachlorobiphenyl	26.32	360	5370	0.08 ug/ml#	67
86) Pyrene	25.74	202	30693	0.14 ug/ml#	93
87) Dieldrin	26.34	79	7966	0.18 ug/ml#	69
88) Carboxin	26.37	143	6507	0.12 ug/ml#	62
89) Endrin	26.81	81	552m	0.04 ug/ml	1
90) Chlorobenzilate	26.87	139	5621	0.25 ug/ml#	69
91) Endosulfan II	27.05	195	933m	0.09 ug/ml	1
92) p,p'-DDD	27.09	235	9301	0.12 ug/ml	98
93) Endrin aldehyde	27.35	67	2718	0.16 ug/ml#	60
94) Norflurazon	27.66	145	1434m	0.07 ug/ml	61
95) Butylbenzylphthalate	27.76	149	11453	0.13 ug/ml#	93
96) Endosulfan sulfate	27.85	272	221m	0.02 ug/ml	1
97) p,p'-DDT	27.90	235	5413	0.12 ug/ml#	71
98) Hexazinone	27.97	171	3061	0.05 ug/ml#	37
99) Di(2-ethylhexyl)adipate	28.08	129	8875	0.12 ug/ml#	83
101) Heptachlorobiphenyl	28.93	394	2429	0.11 ug/ml#	26
102) Benz(a)anthracene	29.04	228	19007	0.12 ug/ml	96
103) Octachlorobiphenyl	29.05	430	2857m	0.11 ug/ml	91
104) Methoxychlor	29.06	227	8106	0.12 ug/ml#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4676H.D
Acq On : 29 May 01 5:32 pm
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:04 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105) Chrysene	29.13	228	15940	0.11	ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.44	149	18363	0.16	ug/ml#	92
107) Fenarimol	30.32	139	1284m	0.12	ug/ml	95
108) cis-Permethrin	30.95	183	12519	0.10	ug/ml#	69
109) trans-Permethrin	31.11	183	1773	0.01	ug/ml#	6
110) Benzo(b)fluoranthene	31.84	252	9296	0.07	ug/ml#	78
111) Benzo(k)fluoranthene	31.90	252	10815	0.09	ug/ml#	77
112) Benzo(a)pyrene	32.61	252	8001	0.08	ug/ml	100
113) Fluridone	32.59	328	1057m	0.05	ug/ml	1
115) Indeno(1,2,3-cd)pyrene	35.45	276	7047m	0.08	ug/ml	83
116) Dibenz(a,h)anthracene	35.54	278	4878m	0.07	ug/ml	52
117) Benzo(g,h,i)perylene	36.18	276	5715m	0.07	ug/ml	45

(#) = qualifier out of range (m) = manual integration
4676H.D DRINKWI.M Wed May 30 15:24:14 2001

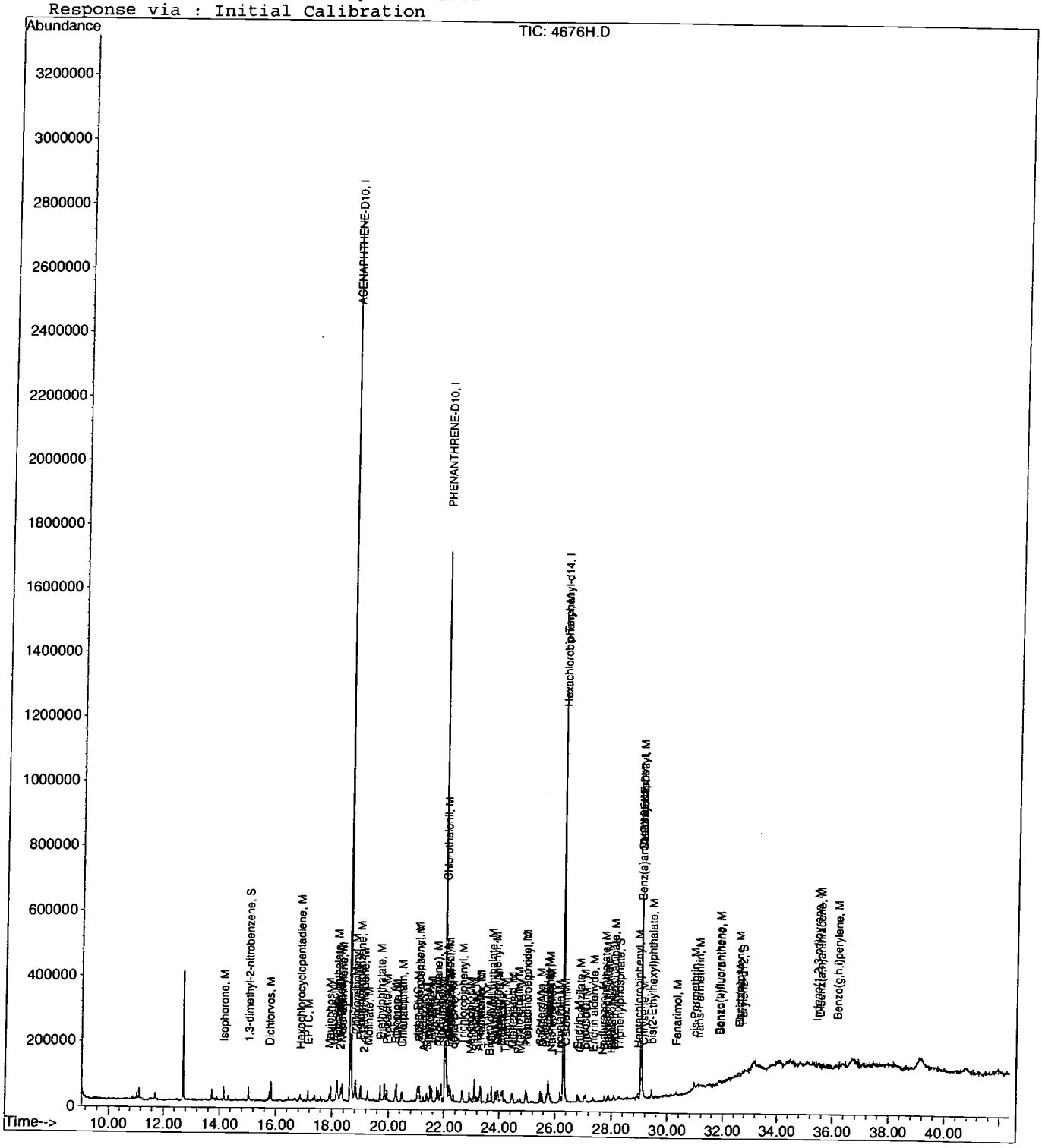
Quantitation Report

Data File : G:\H052901\4676H.D
Acq On : 29 May 01 5:32 pm
Sample : SSTD 0.1
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:04 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\H052901\4677H.D
Acq On : 29 May 01 6:25 pm
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:16 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.65	164	1498944	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1522377	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.07	240	567171	5.00 ug/ml	0.01
118) p-Terphenyl-d14	26.30	244	1021129	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	36335	0.50 ug/ml	0.00
100) Triphenylphosphate	28.26	326	17227	0.44 ug/ml	0.00
114) Perylene-d12	32.73	264	34247	0.33 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.15	82	131901	0.39 ug/ml#	83
4) Dichlorvos	15.77	109	90351	0.42 ug/ml#	87
5) Hexachlorocyclopentadiene	16.86	237	27984	0.39 ug/ml#	69
6) EPTC	17.14	128	69168	0.49 ug/ml#	33
7) Mevinphos	17.89	127	104485	0.44 ug/ml#	64
8) Butylate	17.96	146	58435	0.47 ug/ml#	35
9) Vernolate	18.15	128	77910	0.47 ug/ml#	58
10) Terrazole	18.21	211	25624	0.51 ug/ml	94
11) Dimethylphthalate	18.19	163	192682	0.45 ug/ml	100
12) Pebulate	18.31	128	82801	0.50 ug/ml#	42
13) 2,6-Dinitrotoluene	18.29	165	19023	1.37 ug/ml#	77
14) Acenaphthylene	18.36	152	231569	0.47 ug/ml	100
15) Chloroneb	18.81	191	72226	0.45 ug/ml	99
16) 2-Chlorobiphenyl	18.83	188	153221	0.47 ug/ml	100
17) Pentachlorobenzene	19.01	248	51217	0.43 ug/ml#	48
18) Tebuthiuron	18.99	156	15997	0.61 ug/ml#	84
19) 2,4-Dinitrotoluene	19.12	165	12694	1.43 ug/ml#	73
20) Molinate	19.26	126	94975	0.48 ug/ml#	87
21) Diethylphthalate	19.70	149	170832	0.42 ug/ml	100
22) Fluorene	19.85	166	158253	0.48 ug/ml	92
23) Propachlor	19.94	120	83731	0.48 ug/ml#	3
24) Ethoprop	20.24	158	43948	0.50 ug/ml#	57
25) Cycloate	20.29	154	81807	0.50 ug/ml#	23
26) Chlorpropham	20.46	127	45299	0.53 ug/ml#	62
27) Trifluralin	20.49	306	29512	1.22 ug/ml	94
28) alpha-BHC	21.02	181	29518	0.41 ug/ml#	69
29) 2,3-Dichlorobiphenyl	21.06	222	94520	0.45 ug/ml	96
31) Hexachlorobenzene	21.10	284	65932	0.42 ug/ml	94
32) Atraton	21.25	196	29219	0.39 ug/ml#	72
33) Prometon	21.36	210	34989	0.40 ug/ml#	67
34) Simazine	21.39	201	22580	0.43 ug/ml#	81
35) Atrazine	21.49	200	71597	0.85 ug/ml	100
36) beta-BHC	21.54	183	18627	0.42 ug/ml#	82
37) Propazine	21.56	214	41481	0.47 ug/ml#	76
38) Pentachlorophenol	21.63	266	11813m	0.58 ug/ml	97
39) g-BHC (Lindane)	21.74	181	24504	0.42 ug/ml#	87
40) Terbufos	21.80	231	47716	0.40 ug/ml#	10
41) Pronamide	21.85	173	50447	0.45 ug/ml#	89
42) Diazinon	21.90	137	38867	0.43 ug/ml#	80
43) Phenanthrene	22.09	178	178848	0.48 ug/ml	94
44) Chlorothalonil	22.06	266	35272	0.36 ug/ml	87
45) Disulfoton	22.17	88	76646	0.54 ug/ml#	46
46) Anthracene	22.22	178	142258	0.44 ug/ml	100
47) Methyl paraoxon	22.17	109	11218	0.71 ug/ml#	56

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4677H.D
Acq On : 29 May 01 6:25 pm
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:16 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.16	161	26944	0.47 ug/ml#	93
49) delta-BHC	22.33	181	16201	0.40 ug/ml#	70
50) Trichlorobiphenyl	22.65	256	61992	0.42 ug/ml	100
51) Acetochlor	22.91	146	23977	0.49 ug/ml#	64
52) Metribuzin	22.95	198	21217	0.45 ug/ml	100
53) Alachlor	23.10	160	66816	1.04 ug/ml	96
54) Simetryn	23.18	213	40183	0.40 ug/ml#	90
55) Ametryn	23.25	227	38787	0.43 ug/ml#	83
56) Heptachlor	23.32	100	31170	0.46 ug/ml#	58
57) Prometryn	23.31	241	45220	0.42 ug/ml#	86
58) Terbutryn	23.59	226	36954	0.41 ug/ml#	73
59) Di-n-butyl phthalate	23.72	149	204199	0.41 ug/ml	99
60) Bromacil	23.65	205	12066	0.38 ug/ml#	82
61) Tetrachlorobiphenyl	23.87	292	40520	0.39 ug/ml	100
62) Aldrin	24.11	66	23689	0.38 ug/ml#	80
63) Metolachlor	23.93	162	94004	0.48 ug/ml#	81
64) Chlorpyrifos	23.97	314	11413	0.38 ug/ml#	1
65) DCPA	24.07	301	39846	0.37 ug/ml#	83
66) Cyanazine	24.06	212	2296	0.49 ug/ml#	45
67) Triadimefon	24.19	57	27591	0.33 ug/ml#	63
68) Diphenamid	24.45	167	60933	0.42 ug/ml#	69
69) MGK 264-A	24.49	111	11924	0.21 ug/ml#	50
70) Pendimethalin	24.68	252	12666	1.15 ug/ml#	72
71) MGK 264-B	24.76	164	14610	0.22 ug/ml#	77
72) Heptachlor epoxide	24.94	81	17032	0.44 ug/ml#	72
73) Pentachlorobiphenyl	24.99	326	30586	0.41 ug/ml	100
74) g-Chlordane	25.46	375	20044	0.38 ug/ml	100
75) Stirofos	25.47	109	23719	0.31 ug/ml	92
76) Butachlor	25.54	176	26842	0.56 ug/ml	100
77) a-Chlordane	25.75	373	19681	0.40 ug/ml#	82
78) Endosulfan I	25.75	195	8870	0.37 ug/ml#	84
79) trans-Nonachlor	25.80	409	18887	0.36 ug/ml#	54
80) Fenamiphos	25.78	303	7197	0.25 ug/ml#	69
81) Napropamide	25.86	72	41352	0.39 ug/ml#	74
82) Tricyclazole	26.14	189	3789m	0.39 ug/ml	58
83) p,p'-DDE	26.18	246	29433	0.38 ug/ml	90
84) Hexachlorobiphenyl	26.31	360	24457	0.39 ug/ml#	85
86) Pyrene	25.74	202	126553	0.57 ug/ml	98
87) Dieldrin	26.35	79	28100	0.64 ug/ml#	67
88) Carboxin	26.37	143	27172	0.50 ug/ml#	71
89) Endrin	26.81	81	6696	0.55 ug/ml#	38
90) Chlorobenzilate	26.87	139	21803	1.00 ug/ml#	62
91) Endosulfan II	27.04	195	4174	0.42 ug/ml	95
92) p,p'-DDD	27.09	235	40913	0.51 ug/ml	95
93) Endrin aldehyde	27.34	67	6640	0.40 ug/ml#	76
94) Norflurazon	27.65	145	8522	0.41 ug/ml#	44
95) Butylbenzylphthalate	27.75	149	42606	0.49 ug/ml#	83
96) Endosulfan sulfate	27.86	272	4862	0.40 ug/ml#	67
97) p,p'-DDT	27.90	235	25867	0.58 ug/ml#	71
98) Hexazinone	27.97	171	21207	0.36 ug/ml	97
99) Di(2-ethylhexyl)adipate	28.09	129	36300	0.49 ug/ml#	68
101) Heptachlorobiphenyl	28.94	394	9324	0.42 ug/ml#	8
102) Benz(a)anthracene	29.05	228	70198	0.43 ug/ml#	91
103) Octachlorobiphenyl	29.07	430	12479	0.47 ug/ml	88
104) Methoxychlor	29.06	227	38318	0.58 ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4677H.D DRINKWI.M Wed May 30 15:24:49 2001

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4677H.D
Acq On : 29 May 01 6:25 pm
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:16 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105)	Chrysene	29.14	228	61973	0.43 ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.43	149	51114	0.46 ug/ml	92
107)	Fenarimol	30.30	139	6454	0.61 ug/ml#	86
108)	cis-Permethrin	30.95	183	44419	0.35 ug/ml#	66
109)	trans-Permethrin	31.09	183	8647	0.06 ug/ml#	76
110)	Benzo(b)fluoranthene	31.83	252	40615	0.32 ug/ml#	87
111)	Benzo(k)fluoranthene	31.90	252	44787	0.36 ug/ml#	97
112)	Benzo(a)pyrene	32.60	252	30962	0.32 ug/ml	100
113)	Fluridone	32.59	328	5226m	0.24 ug/ml	51
115)	Indeno(1,2,3-cd)pyrene	35.44	276	25971m	0.31 ug/ml	72
116)	Dibenz(a,h)anthracene	35.55	278	18603m	0.26 ug/ml	84
117)	Benzo(g,h,i)perylene	36.20	276	26012m	0.31 ug/ml	71

(#) = qualifier out of range (m) = manual integration
4677H.D DRINKWI.M Wed May 30 15:24:50 2001

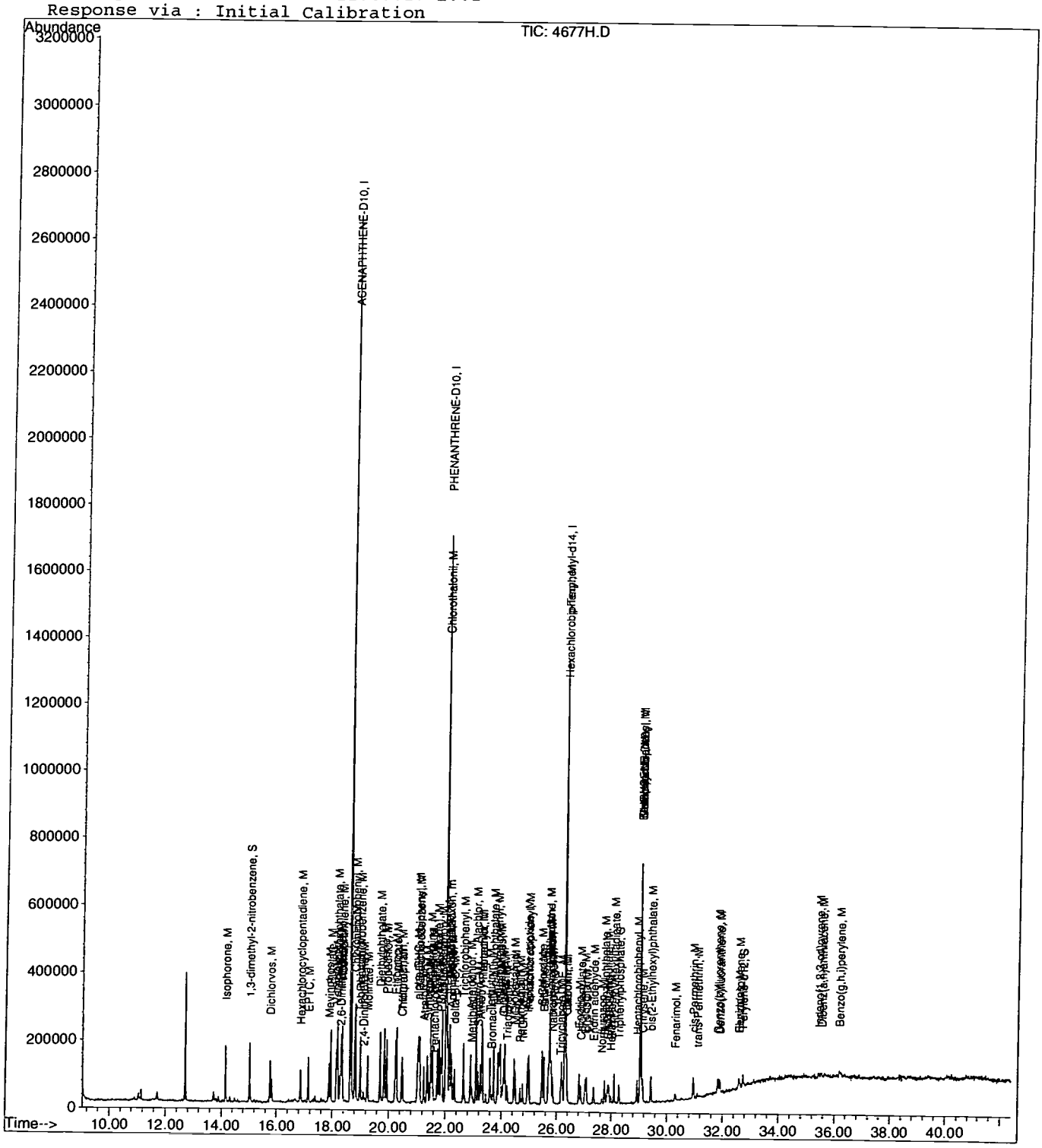
Quantitation Report

Data File : G:\H052901\4677H.D
Acq On : 29 May 01 6:25 pm
Sample : SSTD 0.5
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:16 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : G:\H052901\4678H.D
Acq On : 29 May 01 7:17 pm
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.66	164	1530322	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1647166	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.06	240	595671	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	1053727	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	80893	1.09 ug/ml	0.00
100) Triphenylphosphate	28.26	326	40967	0.99 ug/ml	0.00
114) Perylene-d12	32.73	264	74994	0.69 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.14	82	311482	0.89 ug/ml#	86
4) Dichlorvos	15.76	109	216535	0.98 ug/ml#	82
5) Hexachlorocyclopentadiene	16.87	237	72709	0.98 ug/ml#	76
6) EPTC	17.14	128	156225	1.08 ug/ml#	30
7) Mevinphos	17.89	127	241555	1.00 ug/ml#	66
8) Butylate	17.95	146	132592	1.05 ug/ml#	31
9) Vernolate	18.16	128	173504	1.03 ug/ml#	51
10) Terrazole	18.21	211	53342	1.05 ug/ml	87
11) Dimethylphthalate	18.18	163	427190	0.98 ug/ml	100
12) Pebulate	18.31	128	189951	1.13 ug/ml#	38
13) 2,6-Dinitrotoluene	18.28	165	40970	2.90 ug/ml#	72
14) Acenaphthylene	18.35	152	520378	1.03 ug/ml	100
15) Chloroneb	18.81	191	171752	1.04 ug/ml	97
16) 2-Chlorobiphenyl	18.83	188	350097	1.06 ug/ml	100
17) Pentachlorobenzene	19.01	248	117853	0.98 ug/ml#	45
18) Tebuthiuron	18.99	156	44375	1.65 ug/ml#	90
19) 2,4-Dinitrotoluene	19.12	165	29265	3.23 ug/ml#	63
20) Molinate	19.26	126	223757	1.11 ug/ml#	82
21) Diethylphthalate	19.71	149	408633	0.99 ug/ml	100
22) Fluorene	19.85	166	365529	1.08 ug/ml	94
23) Propachlor	19.94	120	196674	1.11 ug/ml#	3
24) Ethoprop	20.24	158	106237	1.19 ug/ml#	58
25) Cycloate	20.28	154	190493	1.15 ug/ml#	25
26) Chlorpropham	20.46	127	103071	1.17 ug/ml#	69
27) Trifluralin	20.49	306	80849	3.27 ug/ml	96
28) alpha-BHC	21.02	181	76844	1.04 ug/ml#	80
29) 2,3-Dichlorobiphenyl	21.06	222	231824	1.08 ug/ml	99
31) Hexachlorobenzene	21.10	284	150870	0.89 ug/ml#	90
32) Atraton	21.25	196	72806	0.90 ug/ml#	73
33) Prometon	21.36	210	84586	0.90 ug/ml#	75
34) Simazine	21.39	201	56732	1.00 ug/ml#	83
35) Atrazine	21.48	200	189532	2.09 ug/ml	100
36) beta-BHC	21.53	183	43853	0.91 ug/ml#	82
37) Propazine	21.55	214	100994	1.05 ug/ml#	78
38) Pentachlorophenol	21.60	266	42397m	1.92 ug/ml	98
39) g-BHC (Lindane)	21.74	181	59699m	0.94 ug/ml	96
40) Terbufos	21.80	231	123696	0.96 ug/ml#	16
41) Pronamide	21.86	173	127932	1.05 ug/ml	91
42) Diazinon	21.89	137	90311	0.92 ug/ml#	82
43) Phenanthrene	22.10	178	415824	1.04 ug/ml	100
44) Chlorothalonil	22.06	266	86695	0.82 ug/ml#	86
45) Disulfoton	22.16	88	176681	1.14 ug/ml#	46
46) Anthracene	22.22	178	348049	0.99 ug/ml	98
47) Methyl paraoxon	22.16	109	24199	1.41 ug/ml#	54

(#) = qualifier out of range (m) = manual integration
4678H.D DRINKWI.M Wed May 30 15:26:04 2001

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4678H.D
Acq On : 29 May 01 7:17 pm
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.16	161	62430	1.00 ug/ml#	85
49) delta-BHC	22.32	181	38527	0.87 ug/ml#	65
50) Trichlorobiphenyl	22.65	256	146205	0.92 ug/ml	100
51) Acetochlor	22.91	146	54448	1.02 ug/ml#	70
52) Metribuzin	22.94	198	54508	1.07 ug/ml	100
53) Alachlor	23.10	160	156159	2.24 ug/ml	97
54) Simetryn	23.17	213	104768	0.97 ug/ml#	90
55) Ametryn	23.26	227	100201	1.01 ug/ml#	81
56) Heptachlor	23.32	100	65058	0.89 ug/ml#	76
57) Prometryn	23.31	241	119044	1.01 ug/ml	90
58) Terbutryn	23.60	226	91429	0.93 ug/ml#	80
59) Di-n-butyl phthalate	23.72	149	513353	0.95 ug/ml	99
60) Bromacil	23.65	205	33976	1.00 ug/ml#	76
61) Tetrachlorobiphenyl	23.87	292	98930	0.88 ug/ml	100
62) Aldrin	24.12	66	50773	0.75 ug/ml#	76
63) Metolachlor	23.93	162	234316	1.10 ug/ml#	77
64) Chlorpyrifos	23.95	314	30374	0.93 ug/ml#	4
65) DCPA	24.07	301	94721	0.82 ug/ml#	84
66) Cyanazine	24.05	212	3173m	0.63 ug/ml	1
67) Triadimefon	24.20	57	68273	0.75 ug/ml#	63
68) Diphenamid	24.46	167	146564	0.94 ug/ml#	68
69) MGK 264-A	24.49	111	28930	0.46 ug/ml#	47
70) Pendimethalin	24.68	252	31926	2.67 ug/ml#	70
71) MGK 264-B	24.77	164	40230	0.56 ug/ml#	83
72) Heptachlor epoxide	24.95	81	35844	0.85 ug/ml#	65
73) Pentachlorobiphenyl	24.98	326	64362	0.79 ug/ml	100
74) g-Chlordane	25.47	375	43585	0.76 ug/ml	100
75) Stirofos	25.48	109	57070	0.70 ug/ml	93
76) Butachlor	25.53	176	67107	1.28 ug/ml	100
77) a-Chlordane	25.75	373	45290	0.85 ug/ml#	83
78) Endosulfan I	25.77	195	18713	0.73 ug/ml#	65
79) trans-Nonachlor	25.81	409	44351	0.79 ug/ml#	84
80) Fenamiphos	25.78	303	16707	0.53 ug/ml#	84
81) Napropamide	25.85	72	97404	0.85 ug/ml#	76
82) Tricyclazole	26.15	189	7720	0.73 ug/ml#	73
83) p,p'-DDE	26.18	246	67943	0.81 ug/ml	89
84) Hexachlorobiphenyl	26.31	360	55791	0.82 ug/ml#	82
86) Pyrene	25.74	202	299924	1.28 ug/ml	98
87) Dieldrin	26.35	79	65199	1.42 ug/ml#	70
88) Carboxin	26.36	143	67611	1.19 ug/ml#	76
89) Endrin	26.81	81	15706	1.22 ug/ml#	38
90) Chlorobenzilate	26.87	139	56689	2.48 ug/ml#	68
91) Endosulfan II	27.04	195	12394	1.20 ug/ml#	64
92) p,p'-DDD	27.08	235	102075	1.22 ug/ml	94
93) Endrin aldehyde	27.34	67	17163	0.97 ug/ml#	61
94) Norflurazon	27.65	145	15890	0.73 ug/ml#	88
95) Butylbenzylphthalate	27.75	149	100499	1.11 ug/ml#	82
96) Endosulfan sulfate	27.85	272	11829	0.92 ug/ml#	77
97) p,p'-DDT	27.90	235	62565	1.34 ug/ml#	77
98) Hexazinone	27.98	171	54795	0.89 ug/ml	96
99) Di(2-ethylhexyl)adipate	28.09	129	98661	1.27 ug/ml#	58
101) Heptachlorobiphenyl	28.94	394	23205	1.00 ug/ml#	9
102) Benz(a)anthracene	29.04	228	168444	0.99 ug/ml#	89
103) Octachlorobiphenyl	29.05	430	28195	1.01 ug/ml	91
104) Methoxychlor	29.06	227	97500	1.40 ug/ml#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4678H.D
Acq On : 29 May 01 7:17 pm
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) Chrysene	29.13	228	149152	0.99 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.43	149	114764	0.98 ug/ml#	92
107) Fenarimol	30.31	139	12693m	1.15 ug/ml	81
108) cis-Permethrin	30.95	183	105000	0.79 ug/ml#	64
109) trans-Permethrin	31.09	183	17496	0.12 ug/ml#	82
110) Benzo(b)fluoranthene	31.83	252	103315	0.78 ug/ml#	91
111) Benzo(k)fluoranthene	31.90	252	95251	0.73 ug/ml#	96
112) Benzo(a)pyrene	32.60	252	71759	0.70 ug/ml	100
113) Fluridone	32.57	328	12632m	0.54 ug/ml	80
115) Indeno(1,2,3-cd)pyrene	35.44	276	61128m	0.68 ug/ml	84
116) Dibenz(a,h)anthracene	35.54	278	45856	0.60 ug/ml#	62
117) Benzo(g,h,i)perylene	36.21	276	58107m	0.65 ug/ml	51

(#) = qualifier out of range (m) = manual integration

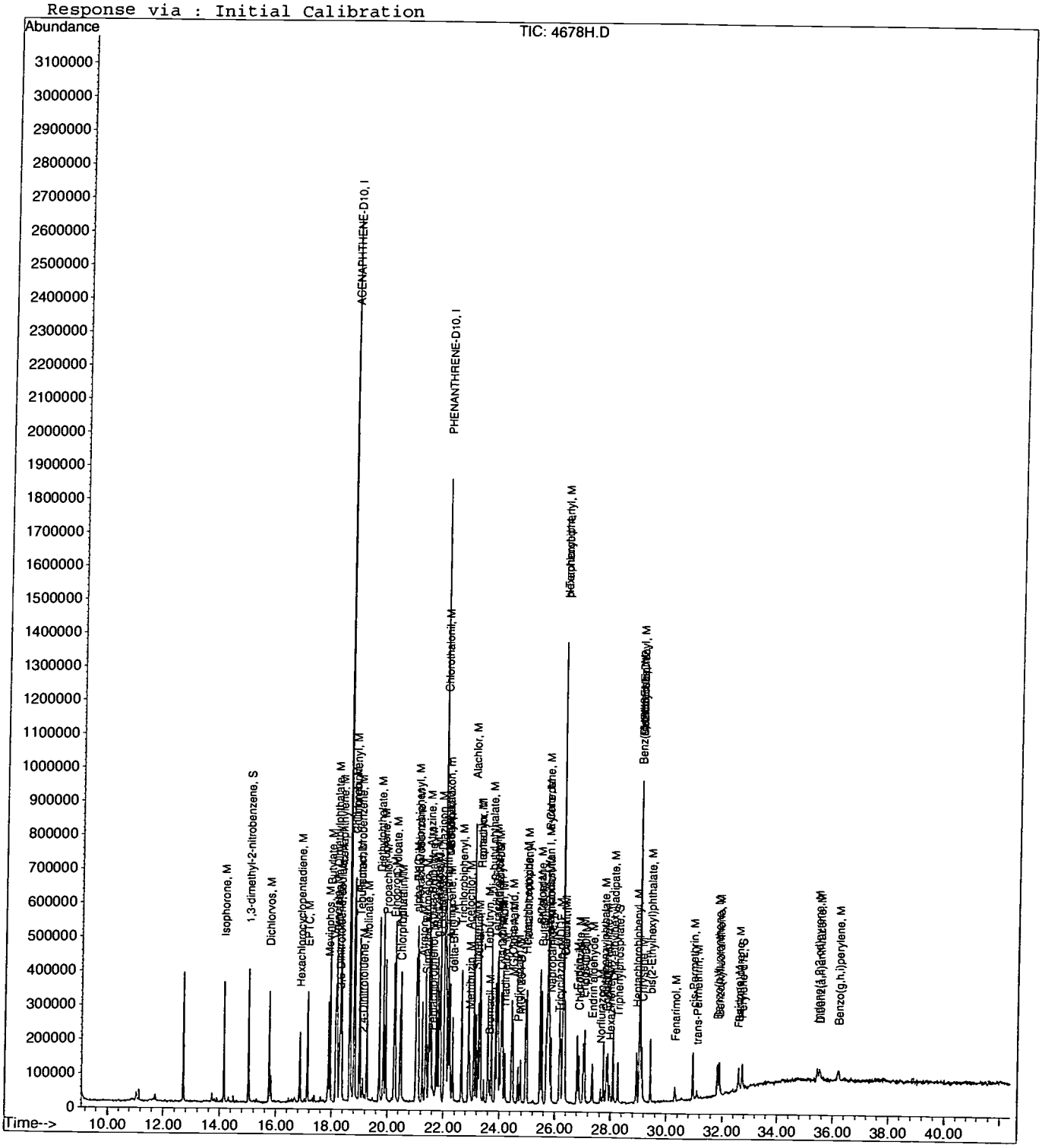
Quantitation Report

Data File : G:\H052901\4678H.D
Acq On : 29 May 01 7:17 pm
Sample : SSTD 1.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:20 2001

Vial: 4
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\H052901\4679H.D
Acq On : 29 May 01 8:09 pm
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:21 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.66	164	1653444	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1682229	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.06	240	785781	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.30	244	1225534	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	406260	5.07 ug/ml	0.00
100) Triphenylphosphate	28.26	326	259900	4.76 ug/ml	0.00
114) Perylene-d12	32.73	264	579627	4.05 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.14	82	1590640	4.22 ug/ml#	85
4) Dichlorvos	15.77	109	1131251	4.76 ug/ml#	80
5) Hexachlorocyclopentadiene	16.87	237	369785	4.63 ug/ml#	72
6) EPTC	17.15	128	777614	4.96 ug/ml#	32
7) Mevinphos	17.89	127	1443368	5.55 ug/ml#	64
8) Butylate	17.95	146	622336	4.56 ug/ml#	27
9) Vernolate	18.16	128	861942	4.74 ug/ml#	55
10) Terrazole	18.21	211	294524	5.36 ug/ml	93
11) Dimethylphthalate	18.19	163	2032985	4.33 ug/ml	100
12) Pebulate	18.31	128	855351	4.72 ug/ml#	42
13) 2,6-Dinitrotoluene	18.29	165	276098	18.09 ug/ml#	77
14) Acenaphthylene	18.35	152	2484499	4.54 ug/ml	100
15) Chloroneb	18.81	191	803894	4.52 ug/ml	97
16) 2-Chlorobiphenyl	18.84	188	1612623	4.52 ug/ml	100
17) Pentachlorobenzene	19.01	248	540327	4.14 ug/ml#	43
18) Tebuthiuron	18.99	156	330289	11.39 ug/ml#	85
19) 2,4-Dinitrotoluene	19.12	165	226333	23.10 ug/ml#	70
20) Molinate	19.26	126	1035536	4.77 ug/ml#	84
21) Diethylphthalate	19.71	149	1892160	4.25 ug/ml	100
22) Fluorene	19.85	166	1709014	4.69 ug/ml	96
23) Propachlor	19.94	120	967636	5.04 ug/ml#	3
24) Ethoprop	20.24	158	531686	5.51 ug/ml#	56
25) Cycloate	20.28	154	882068	4.91 ug/ml#	26
26) Chlorpropham	20.46	127	536570	5.65 ug/ml#	69
27) Trifluralin	20.49	306	540937	20.28 ug/ml	97
28) alpha-BHC	21.02	181	358965	4.48 ug/ml#	77
29) 2,3-Dichlorobiphenyl	21.06	222	1051039	4.54 ug/ml	95
31) Hexachlorobenzene	21.11	284	713165	4.12 ug/ml#	93
32) Atraton	21.26	196	422843	5.12 ug/ml#	73
33) Prometon	21.37	210	496978	5.17 ug/ml#	73
34) Simazine	21.41	201	283620	4.88 ug/ml#	87
35) Atrazine	21.50	200	937760	10.13 ug/ml	100
36) beta-BHC	21.54	183	212200m	4.30 ug/ml	87
37) Propazine	21.57	214	487602	4.98 ug/ml#	81
38) Pentachlorophenol	21.60	266	500472	22.18 ug/ml	94
39) g-BHC (Lindane)	21.74	181	284499m	4.37 ug/ml	94
40) Terbufos	21.80	231	623483	4.72 ug/ml#	16
41) Pronamide	21.86	173	715915	5.74 ug/ml#	89
42) Diazinon	21.90	137	451973	4.51 ug/ml#	86
43) Phenanthrene	22.10	178	1872773	4.57 ug/ml	98
44) Chlorothalonil	22.06	266	455194	4.21 ug/ml#	90
45) Disulfoton	22.17	88	872338	5.52 ug/ml#	46
46) Anthracene	22.23	178	1689019	4.70 ug/ml	99
47) Methyl paraoxon	22.17	109	175869	10.02 ug/ml#	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4679H.D
Acq On : 29 May 01 8:09 pm
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:21 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.19	161	399072	6.26 ug/ml#	86
49) delta-BHC	22.33	181	189419	4.20 ug/ml#	63
50) Trichlorobiphenyl	22.66	256	734168	4.54 ug/ml	100
51) Acetochlor	22.91	146	282104	5.19 ug/ml#	69
52) Metribuzin	22.95	198	346710	6.66 ug/ml	100
53) Alachlor	23.10	160	788704	11.09 ug/ml	99
54) Simetryn	23.17	213	594316	5.41 ug/ml#	91
55) Ametryn	23.26	227	535190	5.31 ug/ml#	82
56) Heptachlor	23.33	100	334842	4.50 ug/ml#	78
57) Prometryn	23.31	241	633727	5.27 ug/ml	89
58) Terbutryn	23.60	226	526039	5.23 ug/ml#	81
59) Di-n-butyl phthalate	23.72	149	2743776	4.97 ug/ml	99
60) Bromacil	23.68	205	267367	7.67 ug/ml#	75
61) Tetrachlorobiphenyl	23.87	292	496989	4.33 ug/ml	100
62) Aldrin	24.12	66	247399	3.57 ug/ml#	75
63) Metolachlor	23.93	162	1266821	5.81 ug/ml#	74
64) Chlorpyrifos	23.96	314	163235	4.90 ug/ml#	3
65) DCPA	24.07	301	481076	4.06 ug/ml#	85
66) Cyanazine	24.07	212	23341	4.53 ug/ml#	19
67) Triadimefon	24.20	57	476780	5.12 ug/ml#	60
68) Diphenamid	24.46	167	865631	5.45 ug/ml#	68
69) MGK 264-A	24.49	111	154399	2.40 ug/ml#	38
70) Pendimethalin	24.68	252	337097	27.64 ug/ml#	61
71) MGK 264-B	24.77	164	200750	2.71 ug/ml#	77
72) Heptachlor epoxide	24.95	81	179048	4.18 ug/ml#	72
73) Pentachlorobiphenyl	24.99	326	339550	4.07 ug/ml	100
74) g-Chlordane	25.47	375	231710	3.94 ug/ml	100
75) Stirofos	25.47	109	388697	4.65 ug/ml	88
76) Butachlor	25.54	176	426753	7.99 ug/ml	100
77) a-Chlordane	25.75	373	206914	3.79 ug/ml#	79
78) Endosulfan I	25.76	195	115291	4.37 ug/ml#	72
79) trans-Nonachlor	25.81	409	207595	3.63 ug/ml#	69
80) Fenamiphos	25.78	303	167104	5.17 ug/ml#	81
81) Napropamide	25.85	72	609425	5.22 ug/ml#	72
82) Tricyclazole	26.11	189	96694	8.95 ug/ml#	83
83) p,p'-DDE	26.18	246	361925	4.20 ug/ml	88
84) Hexachlorobiphenyl	26.31	360	281803	4.03 ug/ml#	79
86) Pyrene	25.75	202	1568567	5.09 ug/ml	99
87) Dieldrin	26.35	79	310091	5.13 ug/ml#	77
88) Carboxin	26.36	143	453212	6.03 ug/ml#	75
89) Endrin	26.81	81	77269	4.55 ug/ml#	62
90) Chlorobenzilate	26.88	139	365724	12.11 ug/ml#	65
91) Endosulfan II	27.04	195	59132	4.34 ug/ml	91
92) p,p'-DDD	27.08	235	575577	5.22 ug/ml	94
93) Endrin aldehyde	27.34	67	100123	4.30 ug/ml#	68
94) Norflurazon	27.64	145	159625	5.55 ug/ml#	88
95) Butylbenzylphthalate	27.75	149	614001	5.14 ug/ml#	83
96) Endosulfan sulfate	27.85	272	94396	5.57 ug/ml#	67
97) p,p'-DDT	27.90	235	430739	6.97 ug/ml#	76
98) Hexazinone	27.98	171	439538	5.40 ug/ml	98
99) Di(2-ethylhexyl)adipate	28.08	129	594441	5.78 ug/ml#	56
101) Heptachlorobiphenyl	28.94	394	123490	4.04 ug/ml#	1
102) Benz(a)anthracene	29.04	228	1036017	4.61 ug/ml#	87
103) Octachlorobiphenyl	29.05	430	150717	4.11 ug/ml	91
104) Methoxychlor	29.06	227	694705	7.54 ug/ml#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4679H.D
Acq On : 29 May 01 8:09 pm
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:21 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105)	Chrysene	29.13	228	939363	4.74 ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.43	149	777784	5.06 ug/ml	92
107)	Fenarimol	30.31	139	108215	7.41 ug/ml#	90
108)	cis-Permethrin	30.95	183	733642	4.21 ug/ml#	63
109)	trans-Permethrin	31.10	183	118375	0.64 ug/ml#	76
110)	Benzo(b)fluoranthene	31.82	252	693702	3.99 ug/ml#	88
111)	Benzo(k)fluoranthene	31.89	252	704096	4.10 ug/ml#	95
112)	Benzo(a)pyrene	32.59	252	533112	3.93 ug/ml	100
113)	Fluridone	32.57	328	129713	4.24 ug/ml#	72
115)	Indeno(1,2,3-cd)pyrene	35.43	276	410489	3.48 ug/ml#	78
116)	Dibenz(a,h)anthracene	35.52	278	370532	3.68 ug/ml#	65
117)	Benzo(g,h,i)perylene	36.19	276	426515	3.64 ug/ml#	58

(#) = qualifier out of range (m) = manual integration

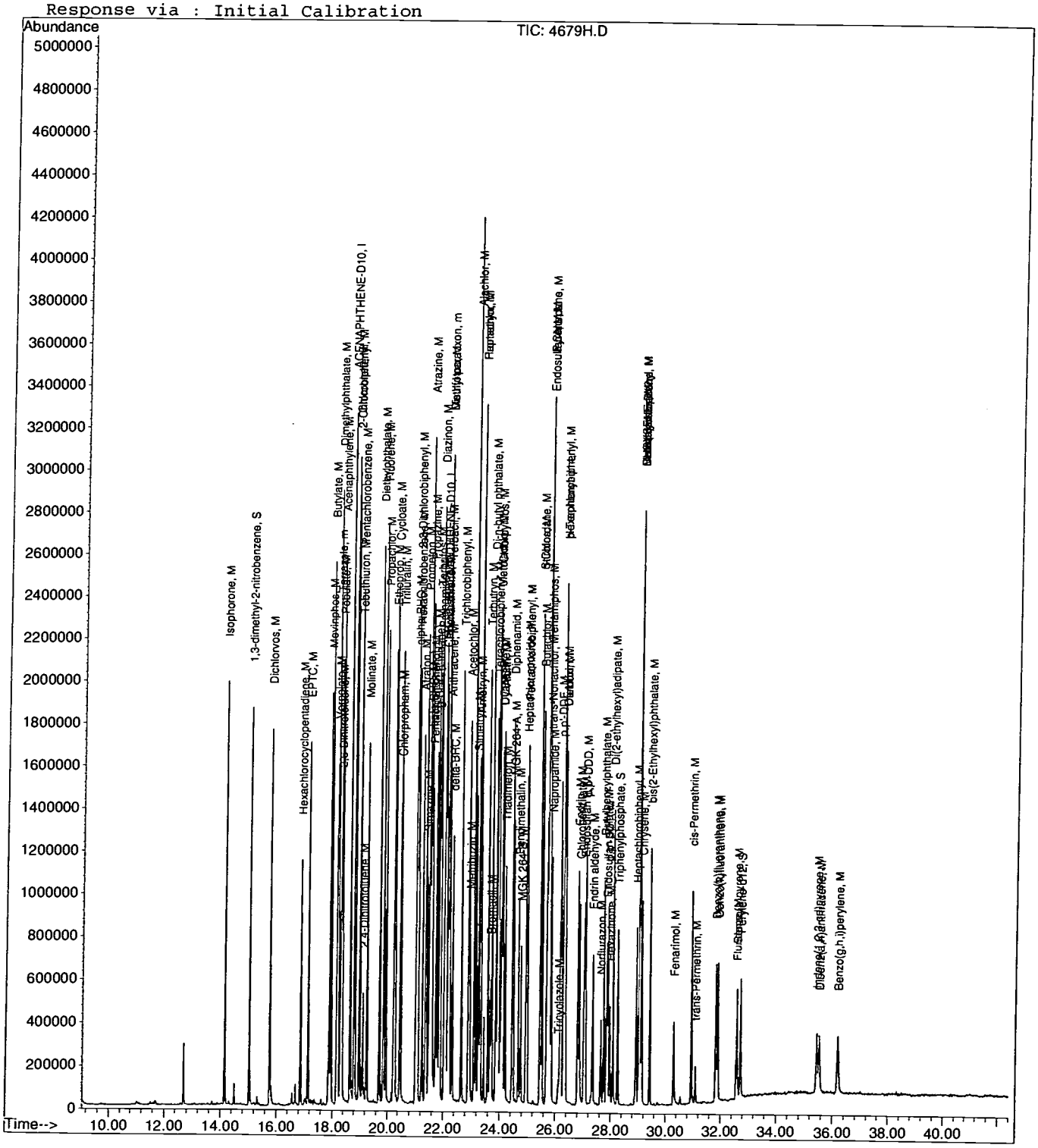
Quantitation Report

Data File : G:\H052901\4679H.D
Acq On : 29 May 01 8:09 pm
Sample : SSTD 5.0
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:21 2001

Vial: 5
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\H052901\4680H.D
Acq On : 29 May 01 9:02 pm
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:26 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) ACENAPHTHENE-D10	18.66	164	1442241	5.00	ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1638515	5.00	ug/ml	0.00
85) CHRYSENE-D12	29.06	240	738204	5.00	ug/ml	0.00
118) p-Terphenyl-d14	26.30	244	1024369	5.00	ug/ml	0.00
System Monitoring Compounds						
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	756859	10.83	ug/ml	0.00
100) Triphenylphosphate	28.26	326	523577	10.20	ug/ml	0.00
114) Perylene-d12	32.73	264	1105682	8.22	ug/ml	0.00
Target Compounds						Qvalue
2) Isophorone	14.15	82	2879597	8.75	ug/ml#	89
4) Dichlorvos	15.76	109	2245564	10.83	ug/ml#	81
5) Hexachlorocyclopentadiene	16.87	237	692662	9.95	ug/ml#	71
6) EPTC	17.14	128	1386068	10.14	ug/ml#	31
7) Mevinphos	17.90	127	2621163	11.56	ug/ml#	65
8) Butylate	17.96	146	1140260	9.57	ug/ml#	30
9) Vernolate	18.16	128	1560143	9.84	ug/ml#	53
10) Terrazole	18.21	211	596129	12.44	ug/ml	95
11) Dimethylphthalate	18.20	163	3668200	8.96	ug/ml	100
12) Pebulate	18.32	128	1589083	10.06	ug/ml#	41
13) 2,6-Dinitrotoluene	18.29	165	564593	42.41	ug/ml#	76
14) Acenaphthylene	18.36	152	4579521	9.59	ug/ml	100
15) Chloroneb	18.81	191	1379511	8.88	ug/ml	97
16) 2-Chlorobiphenyl	18.84	188	2821454	9.07	ug/ml	100
17) Pentachlorobenzene	19.02	248	955574	8.39	ug/ml#	43
18) Tebuthiuron	19.00	156	723232	28.59	ug/ml#	84
19) 2,4-Dinitrotoluene	19.12	165	493805	57.78	ug/ml#	71
20) Molinate	19.27	126	2012139	10.63	ug/ml#	86
21) Diethylphthalate	19.71	149	3469378	8.94	ug/ml	100
22) Fluorene	19.86	166	3207574	10.10	ug/ml	95
23) Propachlor	19.94	120	1858608	11.10	ug/ml#	3
24) Ethoprop	20.24	158	1018256	12.10	ug/ml#	57
25) Cycloate	20.29	154	1686374	10.77	ug/ml#	25
26) Chlorpropham	20.47	127	1028987	12.42	ug/ml#	69
27) Trifluralin	20.49	306	1099899	47.27	ug/ml	98
28) alpha-BHC	21.02	181	666628	9.54	ug/ml#	78
29) 2,3-Dichlorobiphenyl	21.06	222	1958078	9.69	ug/ml	96
31) Hexachlorobenzene	21.10	284	1329984	7.89	ug/ml	92
32) Atraton	21.26	196	892991	11.10	ug/ml#	71
33) Prometon	21.39	210	955484	10.20	ug/ml#	76
34) Simazine	21.43	201	524484	9.26	ug/ml#	61
35) Atrazine	21.52	200	1807316	20.04	ug/ml	100
36) beta-BHC	21.55	183	409137	8.51	ug/ml#	87
37) Propazine	21.58	214	988792	10.36	ug/ml#	79
38) Pentachlorophenol	21.60	266	1217136	55.39	ug/ml	97
39) g-BHC (Lindane)	21.74	181	515040m	8.12	ug/ml	95
40) Terbufos	21.80	231	1158436	9.00	ug/ml#	18
41) Pronamide	21.86	173	1413810	11.63	ug/ml#	90
42) Diazinon	21.90	137	825360	8.46	ug/ml#	84
43) Phenanthrene	22.10	178	3658727	9.17	ug/ml	99
44) Chlorothalonil	22.07	266	913280	8.68	ug/ml#	89
45) Disulfoton	22.17	88	1614687	10.49	ug/ml#	46
46) Anthracene	22.23	178	3259074	9.31	ug/ml	98
47) Methyl paraoxon	22.18	109	440862	25.79	ug/ml#	59

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4680H.D
Acq On : 29 May 01 9:02 pm
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:26 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.21	161	843187	13.59 ug/ml#	85
49) delta-BHC	22.34	181	383628	8.72 ug/ml#	68
50) Trichlorobiphenyl	22.65	256	1354877	8.60 ug/ml	100
51) Acetochlor	22.91	146	507182	9.57 ug/ml#	69
52) Metribuzin	22.96	198	687690	13.56 ug/ml	100
53) Alachlor	23.11	160	1417977	20.47 ug/ml	98
54) Simetryn	23.18	213	1158705	10.83 ug/ml#	89
55) Ametryn	23.26	227	1012080	10.30 ug/ml#	82
56) Heptachlor	23.32	100	578363	7.99 ug/ml#	81
57) Prometryn	23.32	241	1191562	10.18 ug/ml	89
58) Terbutryn	23.60	226	1015832	10.37 ug/ml#	79
59) Di-n-butyl phthalate	23.73	149	4860862	9.03 ug/ml	99
60) Bromacil	23.70	205	706348m	20.80 ug/ml	84
61) Tetrachlorobiphenyl	23.87	292	914720	8.19 ug/ml	100
62) Aldrin	24.11	66	444003	6.58 ug/ml#	69
63) Metolachlor	23.93	162	2294421	10.80 ug/ml#	72
64) Chlorpyrifos	23.96	314	308471	9.50 ug/ml#	7
65) DCPA	24.08	301	936070	8.11 ug/ml#	84
66) Cyanazine	24.07	212	35368	7.05 ug/ml#	4
67) Triadimefon	24.20	57	972196	10.73 ug/ml#	62
68) Diphenamid	24.46	167	1655710	10.71 ug/ml#	67
69) MGK 264-A	24.49	111	285860	4.57 ug/ml#	36
70) Pendimethalin	24.68	252	774134	65.17 ug/ml#	59
71) MGK 264-B	24.77	164	388708	5.40 ug/ml#	81
72) Heptachlor epoxide	24.95	81	312540	7.49 ug/ml#	63
73) Pentachlorobiphenyl	24.99	326	660358	8.13 ug/ml	100
74) g-Chlordane	25.47	375	425619	7.44 ug/ml	100
75) Stirofos	25.48	109	824492	10.14 ug/ml#	84
76) Butachlor	25.54	176	825223	15.86 ug/ml	100
77) a-Chlordane	25.75	373	396266	7.46 ug/ml	89
78) Endosulfan I	25.77	195	222981	8.68 ug/ml#	71
79) trans-Nonachlor	25.81	409	381330	6.84 ug/ml#	66
80) Fenamiphos	25.79	303	391420	12.43 ug/ml#	79
81) Napropamide	25.86	72	1201691	10.58 ug/ml#	73
82) Tricyclazole	26.12	189	266580	25.32 ug/ml#	87
83) p,p'-DDE	26.17	246	714438	8.51 ug/ml	88
84) Hexachlorobiphenyl	26.32	360	527371	7.75 ug/ml#	80
86) Pyrene	25.74	202	2982906	10.30 ug/ml	98
87) Dieldrin	26.35	79	533465	9.39 ug/ml#	79
88) Carboxin	26.37	143	839488	11.88 ug/ml#	76
89) Endrin	26.81	81	148667	9.32 ug/ml#	71
90) Chlorobenzilate	26.87	139	764371	26.94 ug/ml#	61
91) Endosulfan II	27.03	195	114655	8.95 ug/ml	86
92) p,p'-DDD	27.09	235	1099842	10.62 ug/ml	94
93) Endrin aldehyde	27.34	67	182131	8.33 ug/ml#	70
94) Norflurazon	27.64	145	337148	12.47 ug/ml#	88
95) Butylbenzylphthalate	27.75	149	1182887	10.54 ug/ml#	83
96) Endosulfan sulfate	27.85	272	175125	11.00 ug/ml#	65
97) p,p'-DDT	27.89	235	892643	15.38 ug/ml#	74
98) Hexazinone	27.98	171	901496	11.79 ug/ml	99
99) Di(2-ethylhexyl)adipate	28.08	129	1133896	11.74 ug/ml#	57
101) Heptachlorobiphenyl	28.94	394	250045	8.71 ug/ml#	1
102) Benz(a)anthracene	29.04	228	1972747	9.35 ug/ml#	89
103) Octachlorobiphenyl	29.05	430	281288	8.16 ug/ml	92
104) Methoxychlor	29.06	227	1425905	16.48 ug/ml#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4680H.D
Acq On : 29 May 01 9:02 pm
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:26 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105)	Chrysene	29.13	228	1723999	9.26	ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.43	149	1484219	10.28	ug/ml	93
107)	Fenarimol	30.30	139	246082	17.93	ug/ml#	89
108)	cis-Permethrin	30.95	183	1479914	9.03	ug/ml#	64
109)	trans-Permethrin	31.09	183	248118	1.43	ug/ml#	79
110)	Benzo(b)fluoranthene	31.83	252	1418550	8.69	ug/ml#	90
111)	Benzo(k)fluoranthene	31.89	252	1360514	8.43	ug/ml#	94
112)	Benzo(a)pyrene	32.60	252	1089832	8.56	ug/ml	100
113)	Fluridone	32.56	328	358979	12.49	ug/ml#	76
115)	Indeno(1,2,3-cd)pyrene	35.44	276	841375	7.60	ug/ml#	79
116)	Dibenz(a,h)anthracene	35.52	278	790164	8.35	ug/ml#	68
117)	Benzo(g,h,i)perylene	36.19	276	890816	8.09	ug/ml#	59

(#) = qualifier out of range (m) = manual integration
4680H.D DRINKWI.M Wed May 30 15:27:40 2001

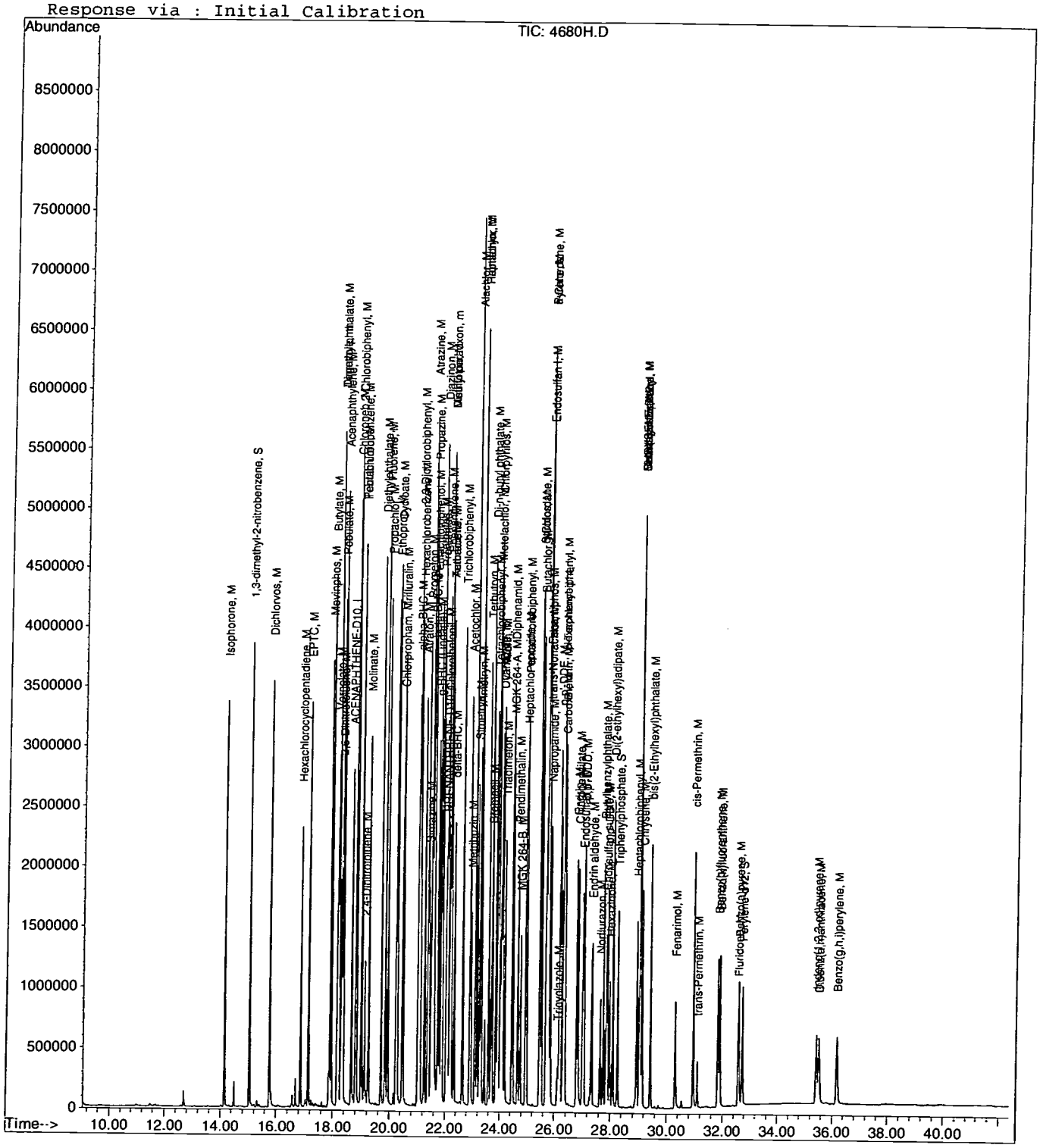
Quantitation Report

Data File : G:\H052901\4680H.D
Acq On : 29 May 01 9:02 pm
Sample : SSTD 10
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 12:26 2001

Vial: 6
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



4680H.D DRINKWI.M Wed May 30 15:27:46 2001

Response Factor Report GC/MS Ins

Method : G:\HPCHEM\1\METHODS\DRINKWBP.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed May 09 10:46:33 2001
Response via : Initial Calibration

Benzo(a)pyrene Only!

Calibration Files
2.0 =4682H.D 0.02 =4681H.D 0.5 =4677H.D
1.0 =4678H.D 5.0 =4679H.D 10.0 =4680H.D

	Compound	2.0	0.02	0.5	1.0	5.0	10.0	Avg	%RSD
1)I	ACENAPHTHENE-D10	----------ISTD----------							
2)M	Isophorone	0.9646	0.0710	0.8800	1.0177	0.9620	0.9983	0.8156	45.1#
3)S	1,3-dimethyl-2-nitr	0.2625	0.1944	0.2424	0.2643	0.2457	0.2624	0.2453	10.9#
4)M	Dichlorvos	0.6835	0.3542	0.6028	0.7075	0.6842	0.7785	0.6351	23.4#
5)M	Hexachlorocyclopent	0.2249	0.1690	0.1867	0.2376	0.2236	0.2401	0.2137	13.6#
6)M	EPTC	0.4717	0.3930	0.4614	0.5104	0.4703	0.4805	0.4646	8.4#
7)M	Mevinphos	0.7676	0.1362	0.6971	0.7892	0.8729	0.9087	0.6953	40.9#
8)M	Butylate	0.3984	0.4145	0.3898	0.4332	0.3764	0.3953	0.4013	5.0#
9)M	Vernolate	0.5570	0.6163	0.5198	0.5669	0.5213	0.5409	0.5537	6.5#
10)m	Terrazole	0.1865	0.0755	0.1709	0.1743	0.1781	0.2067	0.1653	27.7#
11)M	Dimethylphthalate	1.3269	1.5506	1.2855	1.3958	1.2295	1.2717	1.3433	8.6#
12)M	Pebulate	0.5461	0.4116	0.5524	0.6206	0.5173	0.5509	0.5332	12.9#
13) M	2,6-Dinitrotoluene	0.0126	3.2677	0.0127	0.0134	0.0167	0.0196	0.557	E1 238.36#
14)M	Acenaphthylene	1.6479	1.4548	1.5449	1.7002	1.5026	1.5876	1.5730	5.8#
15)M	Chloroneb	0.4979	0.2327	0.4818	0.5612	0.4862	0.4783	0.4563	24.9#
16)M	2-Chlorobiphenyl	1.0312	0.7794	1.0222	1.1439	0.9753	0.9781	0.9884	12.1#
17)M	Pentachlorobenzene	0.3423	0.2978	0.3417	0.3851	0.3268	0.3313	0.3375	8.4#
18) M	Tebuthiuron	0.0136	1.0616	0.0107	0.0145	0.0200	0.0251	0.191	E1 223.46#
19) M	2,4-Dinitrotoluene	0.0092	2.8820	0.0085	0.0096	0.0137	0.0171	0.490	E1 239.15#
20)M	Molinate	0.6701	0.4402	0.6336	0.7311	0.6263	0.6976	0.6331	16.2#
21)M	Diethylphthalate	1.2672	1.5929	1.1397	1.3351	1.1444	1.2028	1.2803	13.3#
22)M	Fluorene	1.1509	1.1785	1.0558	1.1943	1.0336	1.1120	1.1208	5.9#
23)M	Propachlor	0.6267	0.3269	0.5586	0.6426	0.5852	0.6443	0.5641	21.5#
24)M	Ethoprop	0.3233	0.0713	0.2932	0.3471	0.3216	0.3530	0.2849	37.5#
25)M	Cycloate	0.5640	0.5173	0.5458	0.6224	0.5335	0.5846	0.5613	6.8#
26)M	Chlorpropham	0.3355	0.2516	0.3022	0.3368	0.3245	0.3567	0.3179	11.7#
27)M	Trifluralin	0.2732	0.1337	0.1969	0.2642	0.3272	0.3813	0.2628	33.7#
28)M	alpha-BHC	0.2337	0.2707	0.1969	0.2511	0.2171	0.2311	0.2334	11.0#
29)M	2,3-Dichlorobipheny	0.6906	0.7316	0.6306	0.7574	0.6357	0.6788	0.6875	7.4#
30)I	PHENANTHRENE-D10	----------ISTD----------							
31)M	Hexachlorobenzene	0.4728	0.6764	0.4331	0.4580	0.4239	0.4059	0.4783	20.9#
32)M	Atraton	0.2365	0.0913	0.1919	0.2210	0.2514	0.2725	0.2108	30.6#
33)M	Prometon	0.2839	0.1405	0.2298	0.2568	0.2954	0.2916	0.2497	23.6#
34)M	Simazine	0.1640	0.0179	0.1483	0.1722	0.1686	0.1600	0.1385	43.1#
35)M	Atrazine	0.2739	0.2707	0.2351	0.2877	0.2787	0.2758	0.2703	6.7#
36)M	beta-BHC	0.1770	0.2240	0.1224	0.1331	0.1261	0.1248	0.1512	27.2#
37)M	Propazine	0.3026	0.1855	0.2725	0.3066	0.2899	0.3017	0.2764	16.7#
38)M	Pentachlorophenol	0.0339	0.0086	0.0194	0.0322	0.0744	0.0929	0.0435	75.6#
39)M	g-BHC (Lindane)	0.1398	0.2437	0.1610	0.1812	0.1691	0.1572	0.1753	20.6#
40)M	Terbufos	0.3633	0.1917	0.3134	0.3755	0.3706	0.3535	0.3280	21.4#
41)M	Pronamide	0.4169	0.1967	0.3314	0.3883	0.4256	0.4314	0.3650	24.7#
42)M	Diazinon	0.2703	0.2248	0.2553	0.2741	0.2687	0.2519	0.2575	7.1#
43)M	Phenanthrene	1.1654	0.1448	1.1748	1.2622	1.1133	1.1165	0.9962	42.2#
44)M	Chlorothalonil	0.2821	0.0770	0.2317	0.2632	0.2706	0.2787	0.2339	33.7#
45)M	Disulfoton	0.4978	0.4072	0.5035	0.5363	0.5186	0.4927	0.4927	9.1#

(#) = Out of Range (Advisory for non CCC, SPCC)

Response Factor Report GC/MS Ins

Method : G:\HPCHEM\1\METHODS\DRINKWBP.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed May 09 10:46:33 2001
Response via : Initial Calibration

Calibration Files
2.0 =4682H.D 0.02 =4681H.D 0.5 =4677H.D
1.0 =4678H.D 5.0 =4679H.D 10.0 =4680H.D

	Compound	2.0	0.02	0.5	1.0	5.0	10.0	Avg	%RSD
46)M	Anthracene	1.0472	0.1448	0.9344	1.0565	1.0040	0.9945	0.8636	41.1#
47)m	Methyl paraoxon	0.0799	0.0151	0.0737	0.0735	0.1045	0.1345	0.0802	49.4#

109)M	trans-Permethrin	0.9324	0.0535	1.0890	1.0490	1.0760	1.2004	0.9001	47.1#
110)M	Benzo(b)fluoranthen	0.8885	0.5006	0.7161	0.8672	0.8828	0.9608	0.8027	21.0#
111)M	Benzo(k)fluoranthen	0.8548	0.5947	0.7897	0.7995	0.8960	0.9215	0.8094	14.5#
112)M	Benzo(a)pyrene	0.6413	0.6702	0.5459	0.6023	0.6784	0.7382	0.6460	10.3#
113)M	Fluridone	0.0729	0.0856	0.0921	0.1060	0.1651	0.2431	0.1275	51.1#
114)S	Perylene-d12	0.6657	0.9424	0.6038	0.6295	0.7376	0.7489	0.7213	17.0#
115)M	Indeno(1,2,3-cd)pyr	0.4128	0.0262	0.4579	0.5131	0.5224	0.5699	0.4170	47.7#
116)M	Dibenz(a,h)anthrace	0.3782	0.1064	0.3280	0.3849	0.4715	0.5352	0.3674	40.2#
117)M	Benzo(g,h,i)perylen	0.4562	0.5081	0.4586	0.4877	0.5428	0.6034	0.5095	11.0#

118)I p-Terphenyl-d14 ----------ISTD----------

(#) = Out of Range (Advisory for non CCC, SPCC) 0 SPCC fail 0 CCC fail

DRINKWBP.M Wed May 30 15:43:17 2001

Average RSD= 31.73

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4681H.D
Acq On : 29 May 01 9:54 pm
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 15:35 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.66	164	1616913	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1519089	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.06	240	467424	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	965992	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.02	134	1257	0.02 ug/ml	0.00
100) Triphenylphosphate	28.28	326	800	0.02 ug/ml	0.03
114) Perylene-d12	32.78	264	1762	0.02 ug/ml	0.05
Target Compounds					Qvalue
2) Isophorone	14.03	82	459	0.00 ug/ml	93
4) Dichlorvos	15.77	109	2291	0.01 ug/ml#	77
5) Hexachlorocyclopentadiene	16.85	237	1093	0.01 ug/ml#	74
6) EPTC	17.14	128	2542	0.02 ug/ml#	15
7) Mevinphos	17.68	127	881	0.00 ug/ml	95
8) Butylate	17.94	146	2681	0.02 ug/ml#	11
9) Vernolate	18.15	128	3986	0.02 ug/ml#	58
10) Terrazole	18.19	211	488	0.01 ug/ml#	60
11) Dimethylphthalate	18.19	163	10029	0.02 ug/ml	100
12) Pebulate	18.30	128	2662	0.02 ug/ml#	1
13) 2,6-Dinitrotoluene	18.66	165	211346	14.16 ug/ml#	34
14) Acenaphthylene	18.35	152	9409	0.02 ug/ml	100
15) Chloroneb	18.80	191	1505	0.01 ug/ml#	1
16) 2-Chlorobiphenyl	18.83	188	5041	0.01 ug/ml	100
17) Pentachlorobenzene	19.00	248	1926	0.02 ug/ml#	28
18) Tebuthiuron	18.66	156	68661	2.42 ug/ml#	63
19) 2,4-Dinitrotoluene	18.66	165	186397	19.45 ug/ml#	38
20) Molinate	19.26	126	2847	0.01 ug/ml#	49
21) Diethylphthalate	19.70	149	10302	0.02 ug/ml	100
22) Fluorene	19.86	166	7622	0.02 ug/ml	96
23) Propachlor	19.93	120	2114	0.01 ug/ml#	39
24) Ethoprop	20.25	158	461	0.00 ug/ml#	1
25) Cycloate	20.29	154	3346	0.02 ug/ml#	3
26) Chlorpropham	20.48	127	1627	0.02 ug/ml#	49
27) Trifluralin	20.49	306	865	0.03 ug/ml#	87
28) alpha-BHC	21.01	181	1751	0.02 ug/ml#	64
29) 2,3-Dichlorobiphenyl	21.06	222	4732	0.02 ug/ml#	80
31) Hexachlorobenzene	21.10	284	4110	0.03 ug/ml#	84
32) Atraton	21.26	196	555	0.01 ug/ml#	48
33) Prometon	21.36	210	854	0.01 ug/ml#	56
34) Simazine	21.38	201	109	0.00 ug/ml#	1
35) Atrazine	21.47	200	1645	0.02 ug/ml	100
36) beta-BHC	21.74	183	1361	0.03 ug/ml	87
37) Propazine	21.55	214	1127	0.01 ug/ml#	73
38) Pentachlorophenol	21.61	266	52	0.00 ug/ml#	1
39) g-BHC (Lindane)	21.73	181	1481	0.03 ug/ml#	81
40) Terbufos	21.79	231	1165	0.01 ug/ml#	1
41) Pronamide	21.87	173	1195	0.01 ug/ml#	52
42) Diazinon	21.90	137	1366	0.02 ug/ml#	80
43) Phenanthrene	22.29	178	880	0.00 ug/ml	98
44) Chlorothalonil	22.06	266	468	0.00 ug/ml#	65
45) Disulfoton	22.16	88	2474	0.02 ug/ml#	53
46) Anthracene	22.29	178	880	0.00 ug/ml	97
47) Methyl paraoxon	22.13	109	92	0.01 ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4681H.D DRINKWBP.M Wed May 30 15:38:19 2001

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4681H.D
Acq On : 29 May 01 9:54 pm
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 15:35 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.16	161	613	0.01 ug/ml#	22
49) delta-BHC	22.34	181	616	0.02 ug/ml#	11
50) Trichlorobiphenyl	22.66	256	2570	0.02 ug/ml	100
51) Acetochlor	22.89	146	212	0.00 ug/ml#	18
52) Metribuzin	22.93	198	284	0.01 ug/ml	100
53) Alachlor	23.25	160	434	0.01 ug/ml	81
54) Simetryn	23.17	213	433	0.00 ug/ml#	47
55) Ametryn	23.25	227	814	0.01 ug/ml#	57
56) Heptachlor	23.33	100	2351	0.04 ug/ml#	16
57) Prometryn	23.31	241	790	0.01 ug/ml#	1
58) Terbutryn	23.60	226	787	0.01 ug/ml#	46
59) Di-n-butyl phthalate	23.71	149	13272	0.03 ug/ml#	77
60) Bromacil	23.64	205	137	0.00 ug/ml#	1
61) Tetrachlorobiphenyl	23.87	292	1245	0.01 ug/ml	100
62) Aldrin	24.10	66	657	0.01 ug/ml#	1
63) Metolachlor	23.78	162	242	0.00 ug/ml	95
64) Chlorpyrifos	23.96	314	221	0.01 ug/ml#	1
65) DCPA	24.06	301	521	0.00 ug/ml#	68
66) Cyanazine	24.08	212	417	0.09 ug/ml#	54
67) Triadimefon	24.19	57	690	0.01 ug/ml#	52
68) Diphenamid	24.44	167	1337	0.01 ug/ml#	47
69) MGK 264-A	24.48	111	347	0.01 ug/ml#	18
70) Pendimethalin	24.67	252	544	0.05 ug/ml#	95
71) MGK 264-B	24.77	164	335	0.01 ug/ml#	1
72) Heptachlor epoxide	24.94	81	1356	0.04 ug/ml#	72
73) Pentachlorobiphenyl	24.99	326	1502	0.02 ug/ml	100
74) g-Chlordane	25.46	375	485	0.01 ug/ml	100
75) Stirofos	25.45	109	970	0.01 ug/ml#	27
76) Butachlor	25.52	176	742	0.02 ug/ml	100
77) a-Chlordane	25.73	373	570	0.01 ug/ml	96
78) Endosulfan I	25.75	195	259	0.01 ug/ml#	52
79) trans-Nonachlor	25.80	409	376	0.01 ug/ml#	58
80) Fenamiphos	25.75	303	95	0.00 ug/ml#	3
81) Napropamide	25.86	72	844	0.01 ug/ml#	64
82) Tricyclazole	26.09	189	267	0.03 ug/ml#	1
83) p,p'-DDE	26.18	246	1401	0.02 ug/ml#	91
84) Hexachlorobiphenyl	26.31	360	936	0.01 ug/ml#	23
86) Pyrene	25.75	202	5834	0.03 ug/ml#	90
87) Dieldrin	26.34	79	1505	0.04 ug/ml#	47
88) Carboxin	26.39	143	363	0.01 ug/ml#	46
89) Endrin	26.78	81	298	0.03 ug/ml#	1
90) Chlorobenzilate	26.88	139	393	0.02 ug/ml#	40
91) Endosulfan II	27.04	195	409	0.05 ug/ml#	1
92) p,p'-DDD	27.08	235	1552	0.02 ug/ml#	82
93) Endrin aldehyde	27.33	67	854	0.06 ug/ml#	36
94) Norflurazon	27.64	145	196	0.01 ug/ml#	20
95) Butylbenzylphthalate	27.75	149	1871	0.03 ug/ml	95
96) Endosulfan sulfate	27.85	272	250	0.02 ug/ml#	64
97) p,p'-DDT	27.89	235	572	0.02 ug/ml#	62
98) Hexazinone	27.99	171	189	0.00 ug/ml#	1
99) Di(2-ethylhexyl)adipate	28.10	129	1593	0.03 ug/ml#	38
101) Heptachlorobiphenyl	28.94	394	396	0.02 ug/ml#	6
102) Benz(a)anthracene	29.05	228	3452	0.03 ug/ml#	46
103) Octachlorobiphenyl	29.02	430	33	0.00 ug/ml#	1
104) Methoxychlor	29.09	227	807	0.01 ug/ml#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4681H.D
Acq On : 29 May 01 9:54 pm
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 15:35 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105)	Chrysene	29.12	228	3806	0.03 ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.43	149	4045	0.04 ug/ml#	66
107)	Fenarimol	30.31	139	512	0.06 ug/ml#	43
108)	cis-Permethrin	30.95	183	979	0.01 ug/ml#	25
109)	trans-Permethrin	31.09	183	100	0.00 ug/ml#	44
110)	Benzo(b)fluoranthene	31.84	252	936	0.01 ug/ml#	27
111)	Benzo(k)fluoranthene	31.92	252	1112	0.01 ug/ml#	74
112)	Benzo(a)pyrene	32.63	252	1253m	0.02 ug/ml	100
113)	Fluridone	32.55	328	160	0.01 ug/ml#	49
115)	Indeno(1,2,3-cd)pyrene	35.42	276	49	0.00 ug/ml#	1
116)	Dibenz(a,h)anthracene	35.49	278	199	0.00 ug/ml#	1
117)	Benzo(g,h,i)perylene	36.21	276	950	0.01 ug/ml#	91

(#) = qualifier out of range (m) = manual integration
4681H.D DRINKWBP.M Wed May 30 15:38:21 2001

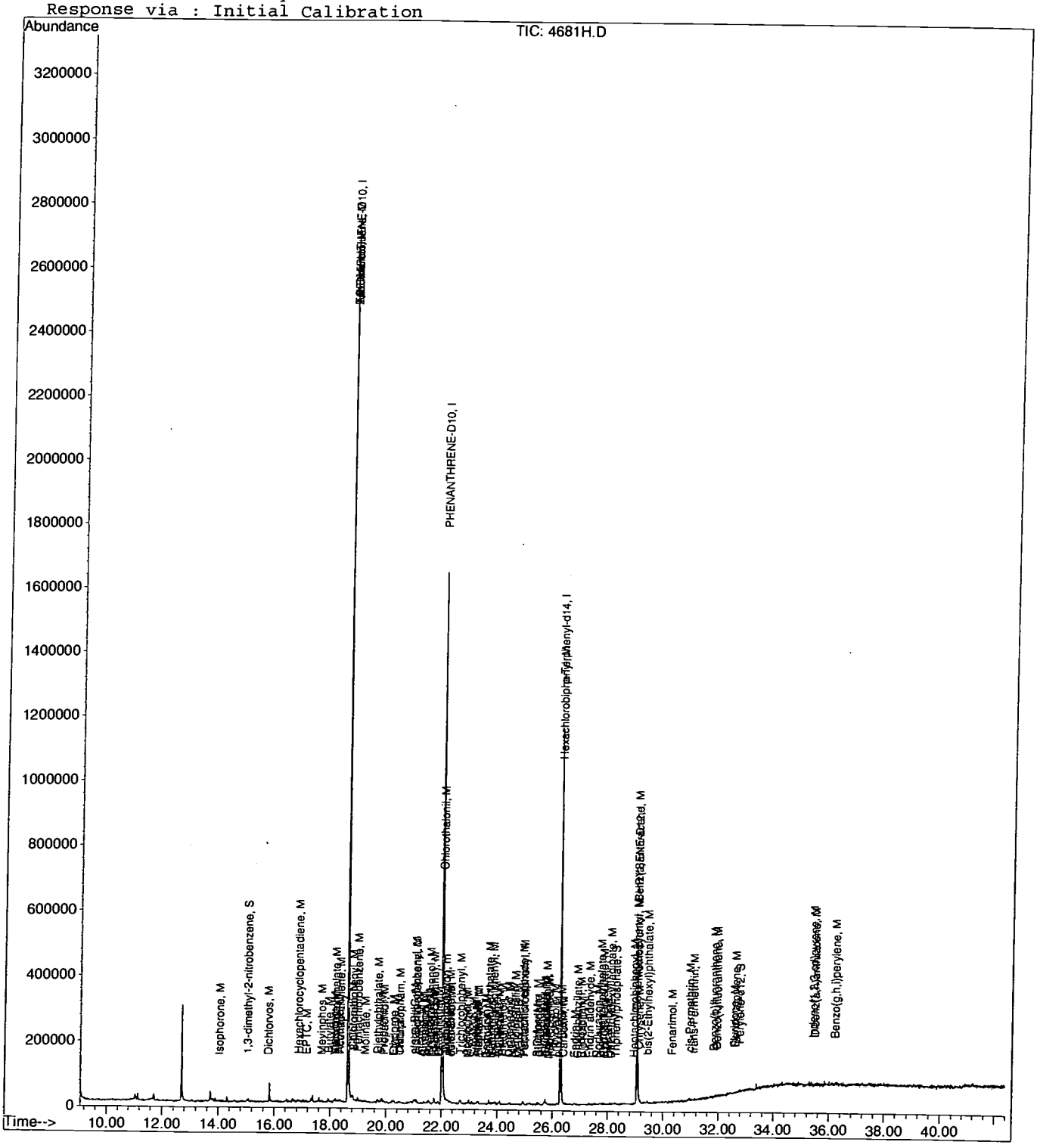
Quantitation Report

Data File : G:\H052901\4681H.D
Acq On : 29 May 01 9:54 pm
Sample : SSTD 0.02
Misc : CAL SSTD
MS Integration Params: rteint.p
Quant Time: May 30 15:35 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWBP.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed May 09 10:46:33 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.65	164	1646163	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1717669	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.05	240	789246	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	1315559	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.02	134	172839	2.17 ug/ml	0.00
100) Triphenylphosphate	28.26	326	99817	1.82 ug/ml	0.00
114) Perylene-d12	32.73	264	210155	1.46 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.14	82	635152	1.69 ug/ml#	85
4) Dichlorvos	15.76	109	450039	1.90 ug/ml#	81
5) Hexachlorocyclopentadiene	16.86	237	148085	1.86 ug/ml#	72
6) EPTC	17.14	128	310628	1.99 ug/ml#	29
7) Mevinphos	17.89	127	505463	1.95 ug/ml#	64
8) Butylate	17.94	146	262332	1.93 ug/ml#	34
9) Vernolate	18.15	128	366788	2.03 ug/ml#	54
10) Terrazole	18.20	211	122836	2.24 ug/ml	92
11) Dimethylphthalate	18.18	163	873716	1.87 ug/ml	100
12) Pebulate	18.31	128	359607	2.00 ug/ml#	41
13) 2,6-Dinitrotoluene	18.28	165	83254	5.48 ug/ml#	72
14) Acenaphthylene	18.36	152	1085087	1.99 ug/ml	100
15) Chloroneb	18.80	191	327842	1.85 ug/ml	96
16) 2-Chlorobiphenyl	18.83	188	679037	1.91 ug/ml	100
17) Pentachlorobenzene	19.00	248	225402	1.73 ug/ml#	41
18) Tebuthiuron	18.98	156	89442	3.10 ug/ml#	86
19) 2,4-Dinitrotoluene	19.12	165	60668	6.22 ug/ml#	68
20) Molinate	19.25	126	441237	2.04 ug/ml#	86
21) Diethylphthalate	19.70	149	834398	1.88 ug/ml	100
22) Fluorene	19.84	166	757800	2.09 ug/ml	94
23) Propachlor	19.93	120	412669	2.16 ug/ml#	3
24) Ethoprop	20.24	158	212861	2.22 ug/ml#	61
25) Cycloate	20.28	154	371348	2.08 ug/ml#	21
26) Chlorpropham	20.46	127	220918	2.34 ug/ml#	70
27) Trifluralin	20.49	306	179925	6.77 ug/ml	94
28) alpha-BHC	21.02	181	153882	1.93 ug/ml#	77
29) 2,3-Dichlorobiphenyl	21.05	222	454740	1.97 ug/ml	96
31) Hexachlorobenzene	21.10	284	324814	1.84 ug/ml	92
32) Atraton	21.24	196	162500	1.93 ug/ml#	69
33) Prometon	21.37	210	195084	1.99 ug/ml#	75
34) Simazine	21.39	201	112695	1.90 ug/ml	87
35) Atrazine	21.48	200	376309	3.98 ug/ml	100
36) beta-BHC	21.73	183	121610	2.41 ug/ml	94
37) Propazine	21.55	214	207901	2.08 ug/ml#	79
38) Pentachlorophenol	21.60	266	93138	4.04 ug/ml	97
39) g-BHC (Lindane)	21.53	181	96086	1.45 ug/ml	97
40) Terbufos	21.80	231	249590	1.85 ug/ml#	15
41) Pronamide	21.85	173	286424	2.25 ug/ml#	88
42) Diazinon	21.89	137	185735	1.82 ug/ml#	85
43) Phenanthrene	22.09	178	800696	1.91 ug/ml	98
44) Chlorothalonil	22.06	266	193835	1.76 ug/ml#	91
45) Disulfoton	22.16	88	342050	2.12 ug/ml#	47
46) Anthracene	22.22	178	719476	1.96 ug/ml	99
47) Methyl paraoxon	22.16	109	54922	3.06 ug/ml#	54

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.16	161	148764	2.29 ug/ml#	88
49) delta-BHC	22.32	181	83662	1.81 ug/ml#	69
50) Trichlorobiphenyl	22.65	256	312119	1.89 ug/ml	100
51) Acetochlor	22.90	146	121772	2.19 ug/ml#	69
52) Metribuzin	22.94	198	128306	2.41 ug/ml	100
53) Alachlor	23.09	160	330213	4.55 ug/ml	97
54) Simetryn	23.17	213	245742	2.19 ug/ml#	90
55) Ametryn	23.25	227	214860	2.09 ug/ml#	83
56) Heptachlor	23.32	100	139223	1.83 ug/ml#	82
57) Prometryn	23.30	241	267134	2.18 ug/ml	89
58) Terbutryn	23.59	226	206297	2.01 ug/ml#	80
59) Di-n-butyl phthalate	23.71	149	1063062	1.88 ug/ml	100
60) Bromacil	23.66	205	79704	2.24 ug/ml#	79
61) Tetrachlorobiphenyl	23.86	292	207673	1.77 ug/ml	100
62) Aldrin	24.11	66	112146	1.58 ug/ml#	79
63) Metolachlor	23.92	162	504265	2.26 ug/ml#	76
64) Chlorpyrifos	23.95	314	65618	1.93 ug/ml#	3
65) DCPA	24.06	301	209997	1.74 ug/ml#	82
66) Cyanazine	24.06	212	9372	1.78 ug/ml#	1
67) Triadimefon	24.19	57	162120	1.71 ug/ml#	66
68) Diphenamid	24.45	167	333686	2.06 ug/ml#	66
69) MGK 264-A	24.48	111	62326	0.95 ug/ml#	37
70) Pendimethalin	24.67	252	84151	6.76 ug/ml#	67
71) MGK 264-B	24.76	164	78700	1.04 ug/ml#	83
72) Heptachlor epoxide	24.94	81	77720	1.78 ug/ml#	69
73) Pentachlorobiphenyl	24.99	326	152810	1.80 ug/ml	100
74) g-Chlordane	25.46	375	98987	1.65 ug/ml	100
75) Stirofos	25.47	109	137712	1.62 ug/ml#	82
76) Butachlor	25.53	176	159215	2.92 ug/ml	100
77) a-Chlordane	25.74	373	95342	1.71 ug/ml#	77
78) Endosulfan I	25.76	195	46279	1.72 ug/ml#	75
79) trans-Nonachlor	25.80	409	95425	1.63 ug/ml#	76
80) Fenamiphos	25.78	303	45425	1.38 ug/ml#	81
81) Napropamide	25.85	72	230548	1.94 ug/ml#	73
82) Tricyclazole	26.11	189	26231	2.38 ug/ml#	77
83) p,p'-DDE	26.17	246	158026	1.80 ug/ml#	90
84) Hexachlorobiphenyl	26.31	360	125648	1.76 ug/ml#	78
86) Pyrene	25.74	202	667916	2.16 ug/ml	99
87) Dieldrin	26.34	79	133212	2.19 ug/ml#	73
88) Carboxin	26.37	143	167416	2.22 ug/ml#	80
89) Endrin	26.80	81	29884	1.75 ug/ml#	54
90) Chlorobenzilate	26.87	139	124527	4.10 ug/ml#	66
91) Endosulfan II	27.03	195	24600	1.80 ug/ml#	89
92) p,p'-DDD	27.07	235	236191	2.13 ug/ml	94
93) Endrin aldehyde	27.33	67	37039	1.58 ug/ml#	69
94) Norflurazon	27.64	145	52397	1.81 ug/ml#	84
95) Butylbenzylphthalate	27.74	149	239640	2.00 ug/ml#	81
96) Endosulfan sulfate	27.84	272	38180	2.24 ug/ml#	63
97) p,p'-DDT	27.90	235	165941	2.67 ug/ml#	75
98) Hexazinone	27.97	171	149996	1.84 ug/ml	98
99) Di(2-ethylhexyl)adipate	28.09	129	227978	2.21 ug/ml#	57
101) Heptachlorobiphenyl	28.94	394	55331	1.80 ug/ml#	5
102) Benz(a)anthracene	29.04	228	421776	1.87 ug/ml#	88
103) Octachlorobiphenyl	29.04	430	65214	1.77 ug/ml	90
104) Methoxychlor	29.05	227	247776	2.68 ug/ml#	73

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) Chrysene	29.12	228	382454	1.92 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.42	149	289281	1.87 ug/ml	93
107) Fenarimol	30.30	139	29513	2.01 ug/ml#	85
108) cis-Permethrin	30.94	183	273654	1.56 ug/ml#	65
109) trans-Permethrin	31.09	183	41211	0.22 ug/ml#	79
110) Benzo(b)fluoranthene	31.82	252	280507	1.61 ug/ml#	88
111) Benzo(k)fluoranthene	31.89	252	269851	1.56 ug/ml#	93
112) Benzo(a)pyrene	32.59	252	202442	1.49 ug/ml	100
113) Fluridone	32.57	328	23023	0.75 ug/ml#	65
115) Indeno(1,2,3-cd)pyrene	35.43	276	130314	1.10 ug/ml#	83
116) Dibenz(a,h)anthracene	35.52	278	119404	1.18 ug/ml#	69
117) Benzo(g,h,i)perylene	36.18	276	144022	1.22 ug/ml#	60

(#) = qualifier out of range (m) = manual integration
4682H.D DRINKWI.M Wed May 30 15:23:45 2001

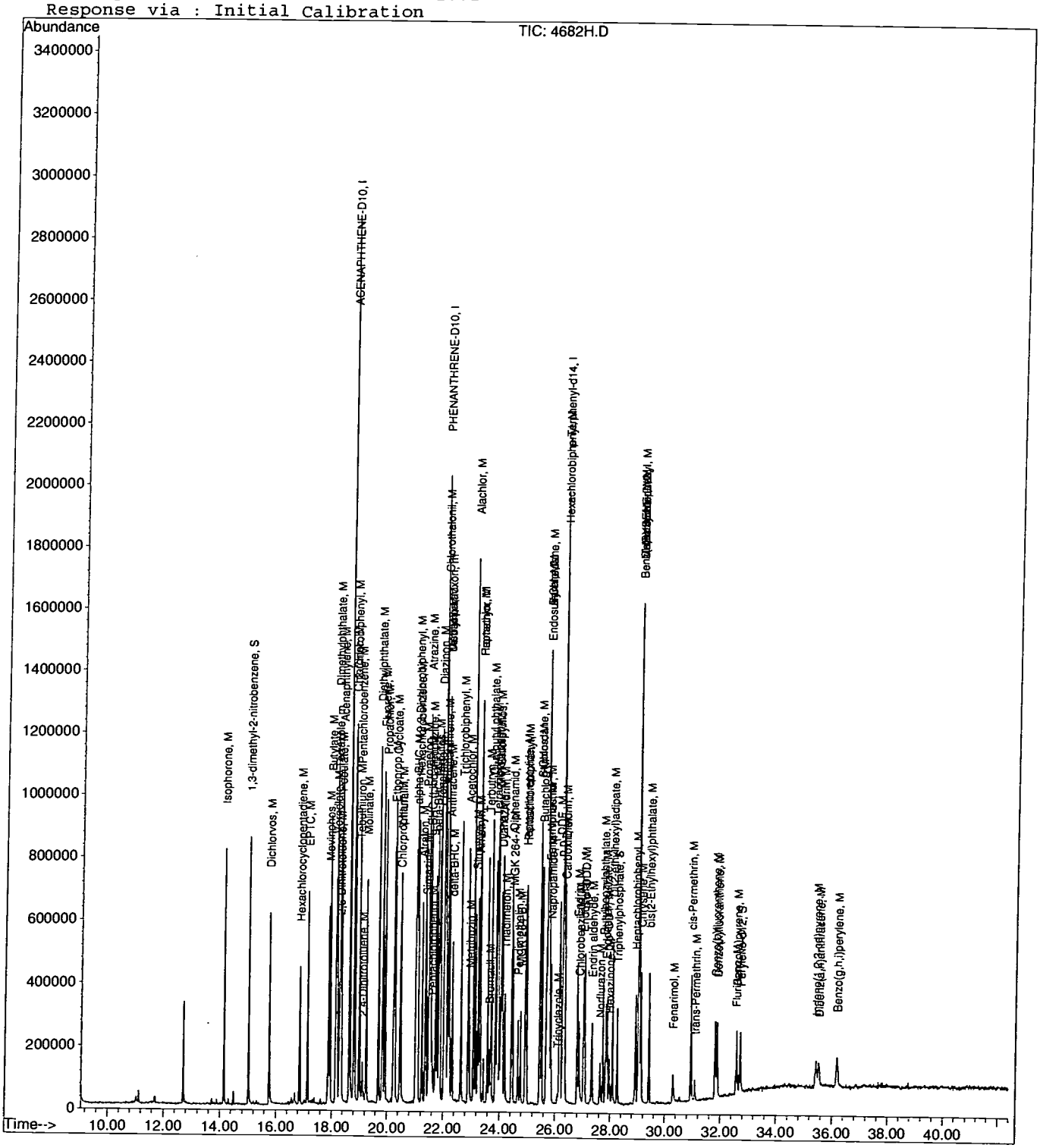
Quantitation Report

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 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: 4674H.D DFTPP Injection Date: 05/29/01

Instrument ID: #8 DFTPP Injection Time: 16:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	23.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	39.4
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	43.1
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	6.3
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 0.75% of mass 198	1.9
441	Present, but less than mass 443	14.5
442	40.0 - 110.0% of mass 198	84.4
443	15.0 - 24.0% of mass 442	16.2 (19.2)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 0.1	SSTD 0.1	4676H.D	05/29/01	17:32
02	SSTD 0.5	SSTD 0.5	4677H.D	05/29/01	18:25
03	SSTD 1.0	SSTD 1.0	4678H.D	05/29/01	19:17
04	SSTD 5.0	SSTD 5.0	4679H.D	05/29/01	20:09
05	SSTD 10	SSTD 10	4680H.D	05/29/01	21:02
06	SSTD 0.02	SSTD 0.02	4681H.D	05/29/01	21:54
07	SSTD 2.0	SSTD 2.0	4682H.D	05/29/01	22:45
08	A552113	A552113	4684H.D	05/30/01	00:30
09	A554400	A554400	4685H.D	05/30/01	01:22
10	A554400 MS	A554400 MS	4686H.D	05/30/01	02:14
11	SBLK2241-610	SBLK2241-610	4687H.D	05/30/01	03:06
12	LCS #829	LCS #829	4688H.D	05/30/01	03:58

1240474
1240475
1240476

✓
LAS
5-31-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: HERITAGE Contract: _____

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

Lab File ID (Standard): 4682H.D Date Analyzed: 05/29/01

Instrument ID: #8 Time Analyzed: 22:45

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	1646163	18.65	1717669	22.04	789246	29.05
	UPPER LIMIT	2140012 ~~3292326~~	18.15	2232970 ~~3435338~~	21.54	1026020 ~~1578492~~	28.55
	LOWER LIMIT	1152314 ~~823082~~	19.15	1202368 ~~858835~~	22.54	552472 ~~394623~~	29.55
	EPA SAMPLE NO.						
01	A552113	1030575 *	18.66	1028571 *	22.03	311404 *	29.06
02	A554400	1093536 *	18.66	1133880 *	22.04	443465 *	29.05
03	A554400 MS	1052027 *	18.65	1179256 *	22.04	432535 *	29.06
04	SBLK2241-61	878254 *	18.65	926177 *	22.03	225878 *	29.06
05	LCS #829	1200346	18.65	1361071	22.03	420907 *	29.05

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

✓
LAS
5-31-1

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: 30-May-01 Instrument: #8

	EPA SAMPLE NO.	S1 DMN #	S2 TPP #	S3 PED #	TOT OUT
01	A552113	105	140*	102	1
02	A554400	101	131*	107	1
03	A554400 MS	107	156*	117	1
04	SBLK2241-610	107	176*	82	1
05	LCS #829	100	155*	92	1

QC LIMITS

S1	DMN	=	1,3-dimethyl-2-nitrobenzene	(50-130)
S2	TPP	=	Triphenylphosphate	(50-130)
S3	PED	=	Perylene-d12	(50-130)

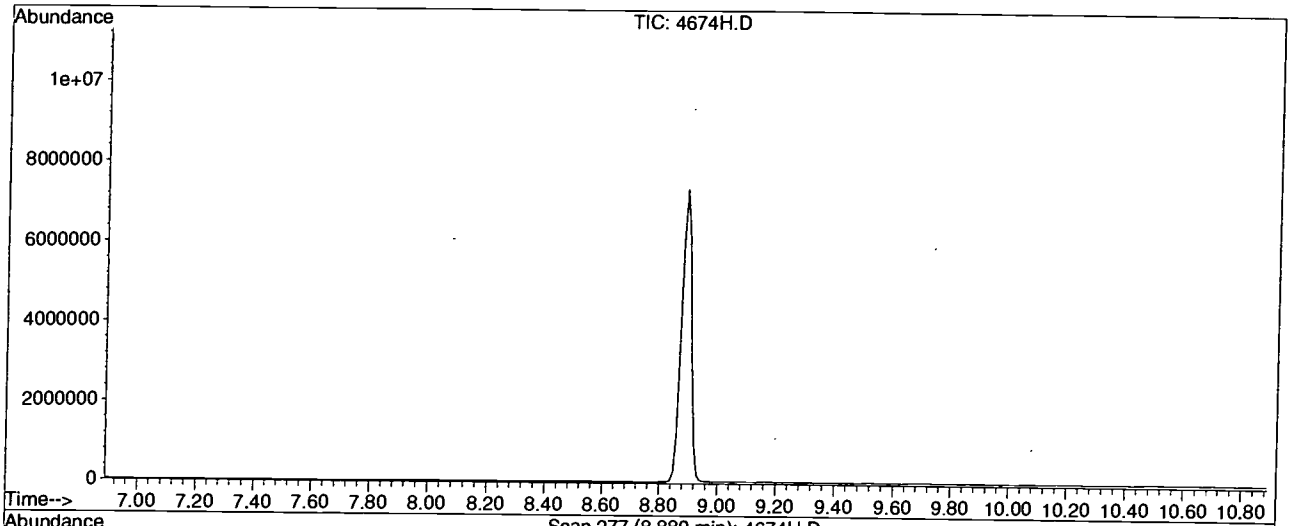
Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

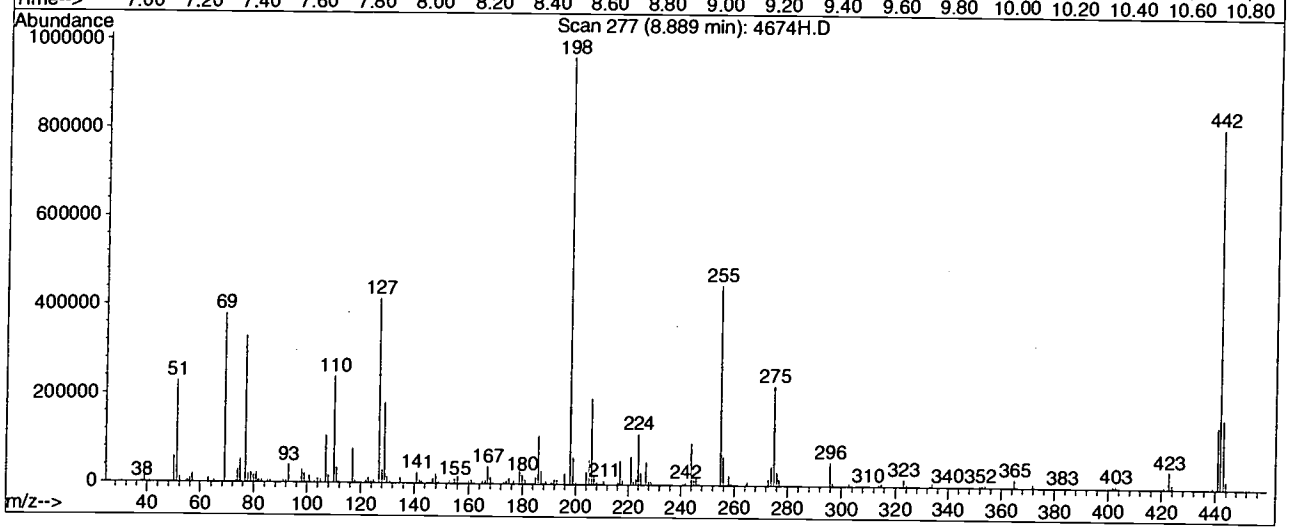
✓
LAS
5-31-1

DFTPP

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
MS Integration Params: rteint.p
Method : G:\HPCHEM\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 277

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.7	227712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.4	379520	PASS
70	69	0.00	2	0.6	2435	PASS
127	198	10	80	43.1	414848	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	962624	PASS
199	198	5	9	6.3	61056	PASS
275	198	10	60	23.2	223040	PASS
365	198	1	100	1.9	18640	PASS
441	443	0.01	100	89.3	139392	PASS
442	198	50	150	84.4	812480	PASS
443	442	15	24	19.2	156032	PASS

✓ LAS 5-31-1

4674H.D DFTPPI.M Wed May 30 16:09:41 2001

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.05	3042	52.05	12461	64.15	832	77.95	19728
38.95	15540	52.95	823	64.95	5542	78.95	22584
39.85	600	54.95	4914	67.05	700	79.95	17848
41.05	2397	55.95	9773	68.95	379520	80.95	22192
41.95	824	56.95	19280	69.95	2435	81.95	6700
43.15	2509	57.85	1308	71.05	1444	83.05	6829
43.85	2173	59.05	669	71.85	953	83.85	1244
44.95	1252	59.95	766	73.15	2999	85.05	6122
48.95	1311	60.95	2497	73.95	28520	85.95	6139
49.95	57728	62.05	2644	74.95	52808	87.05	2193
50.95	227712	62.95	10087	76.95	330112	88.05	682

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.95	6219	102.95	4229	118.80	1634	131.80	1445
91.95	5267	103.95	9485	119.70	1436	132.80	1051
92.95	40920	105.05	8056	122.00	6684	133.80	4072
94.05	3242	106.95	106552	122.90	11532	134.80	12520
94.85	1424	107.95	17216	123.90	5007	136.00	4613
96.05	2155	109.95	238848	124.90	6956	136.90	4552
97.95	29056	110.90	34608	126.90	414848	137.60	1768
98.95	20896	111.80	4051	128.00	29568	138.80	863
99.95	2314	115.10	1072	128.90	181120	139.20	791
100.95	15471	116.90	77360	129.90	14299	140.90	23920
102.05	836	117.90	5768	131.00	4373	141.90	7308

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.80	5365	153.90	4726	166.10	7224	176.80	6539
143.90	533	154.90	10247	167.00	38976	178.90	28880
144.80	1905	156.00	16768	168.00	14853	179.90	20528
145.90	3099	157.00	3683	169.00	3319	181.00	9800
146.90	11143	157.90	3536	170.00	1977	182.10	1578
147.90	21184	159.90	6555	171.00	1570	182.90	1887
148.90	3911	160.90	9129	172.00	2570	183.90	3727
150.00	1269	162.00	2420	173.10	3732	185.00	15922
150.90	2238	163.10	594	174.00	7064	186.00	108312
151.80	2713	163.90	994	175.00	13210	187.00	29568
152.90	6676	165.00	6754	175.90	3482	188.00	2781

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.90	6751	201.50	3164	214.75	2240	227.95	7319
189.90	1001	203.00	4612	215.95	5546	228.85	8087
191.00	4886	204.00	28032	216.85	53320	229.85	1980
191.90	10387	205.00	54536	217.85	9086	230.95	4021
192.90	9865	206.00	193600	218.75	706	232.75	635
193.90	2318	206.95	24312	220.95	63264	233.85	2707
194.70	1088	207.95	5178	221.95	7285	234.85	3925
195.90	23936	208.95	1606	222.95	12360	235.85	1821
197.90	962624	209.95	2997	223.95	113936	236.85	3127
198.90	61056	210.75	8540	224.95	26904	237.85	511
200.00	4437	212.55	504	226.85	51528	239.05	1881

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
239.75	1178	251.85	1727	267.15	717	282.05	682
240.85	2484	252.95	3240	269.95	895	282.85	2130
241.85	5976	254.85	449984	271.05	1188	283.85	1726
243.95	94560	255.85	63760	271.85	962	284.95	1754
244.95	11054	257.95	21600	272.85	14079	285.95	1140
245.85	15639	258.85	4492	273.95	43136	288.75	667
246.85	2585	260.15	921	274.95	223040	291.95	886
247.85	1609	260.95	785	275.95	31424	292.95	2892
248.85	3433	261.85	505	276.85	14196	293.95	1373
249.65	784	264.85	8492	277.75	2572	295.85	53040

250.85	1039	266.05	1283	278.75	1181	296.85	7958

Scan 277 (8.889 min): 4674H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.95	553	315.80	2894	334.90	3154	365.80	3723
301.05	599	320.90	1186	336.00	695	369.80	995
301.85	1055	321.90	1758	339.70	742	370.80	1678
302.90	5542	322.90	15939	340.90	1182	371.90	8351
303.80	1488	324.00	5037	341.80	914	372.80	2275
307.90	789	324.90	633	345.80	3226	373.90	714
308.70	883	326.80	3826	351.90	4517	382.90	1937
309.80	970	327.90	2462	352.80	3630	383.90	935
312.90	577	331.80	1467	353.90	6068	390.00	930
313.90	3155	333.00	1925	354.90	824	391.00	539
314.90	6434	333.90	8873	364.90	18640	391.90	761

Scan 277 (8.889 min): 4674H.D
DFTPP

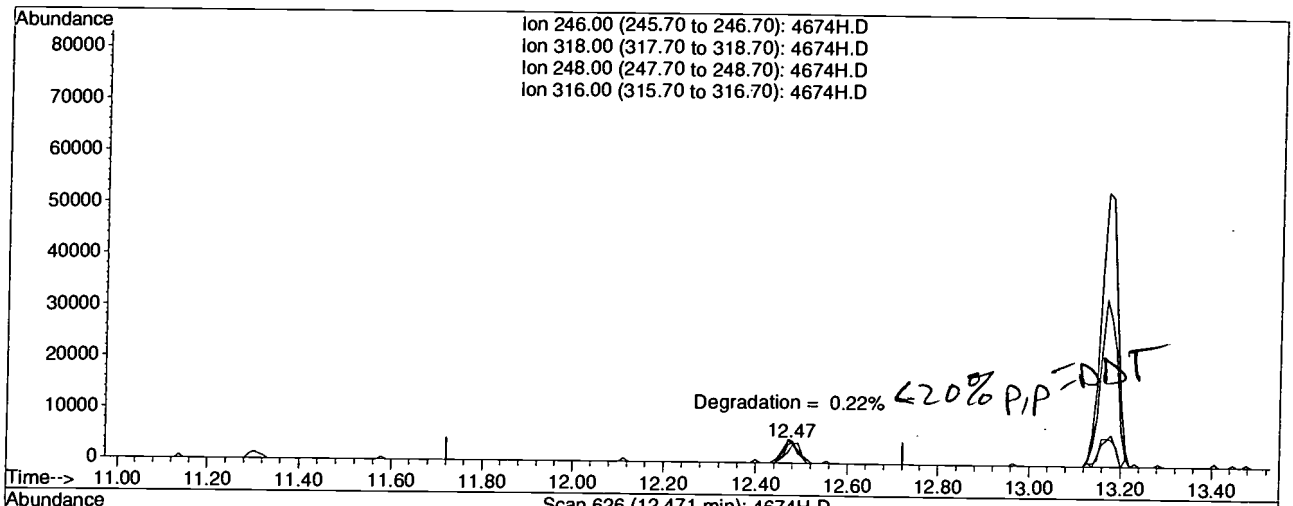
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.65	624	437.25	2208				
401.85	5176	438.95	5381				
402.85	5683	440.95	139392				
403.85	1530	441.85	812480				
419.75	560	442.85	156032				
420.85	5537	443.85	17504				
422.85	39584	444.85	1206				
423.85	9879	445.85	906				
424.95	1401						
433.95	507						
435.55	601						

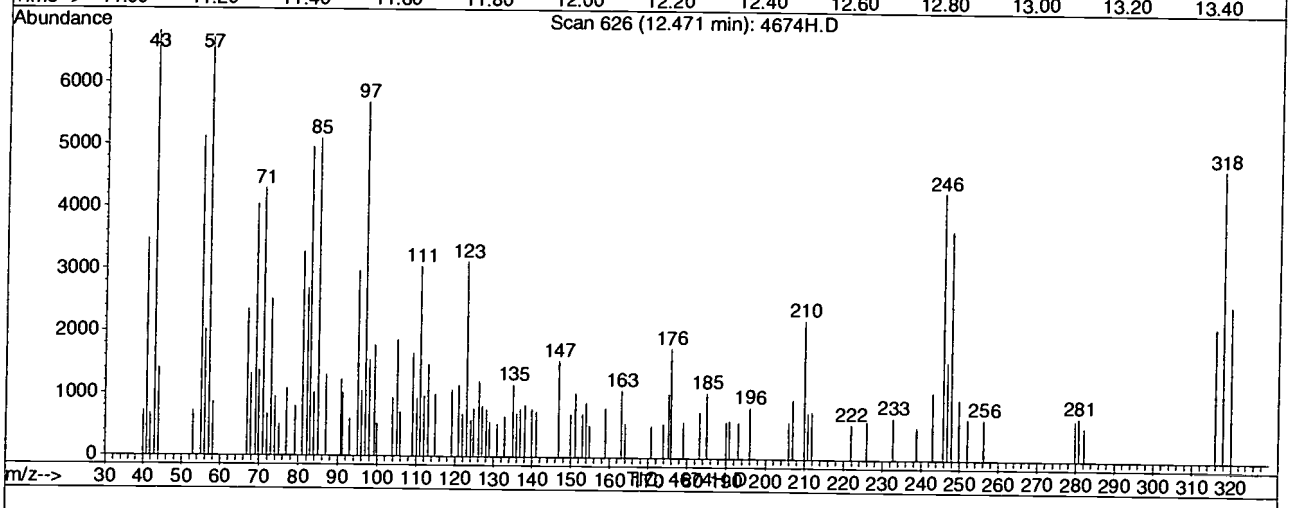
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(2) p,p'-DDE (M)

12.47min 0.07ug/ml

response 11782

Ion	Exp%	Act%
246.00	100	100
318.00	64.70	80.93#
248.00	61.60	70.27
316.00	51.20	55.43

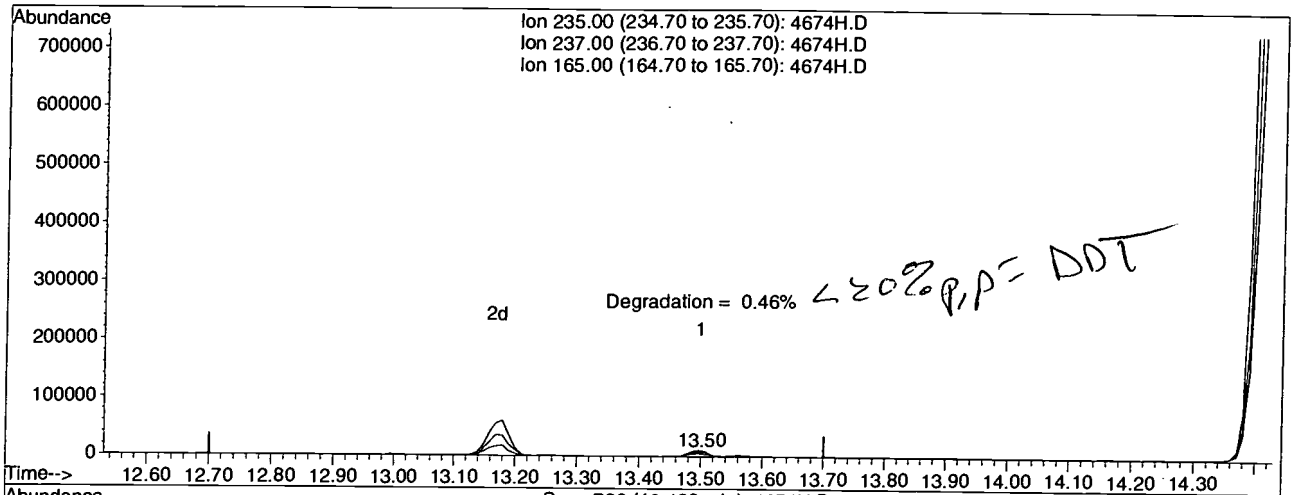
4674H.D DFTPPI.M Wed May 30 16:10:15 2001

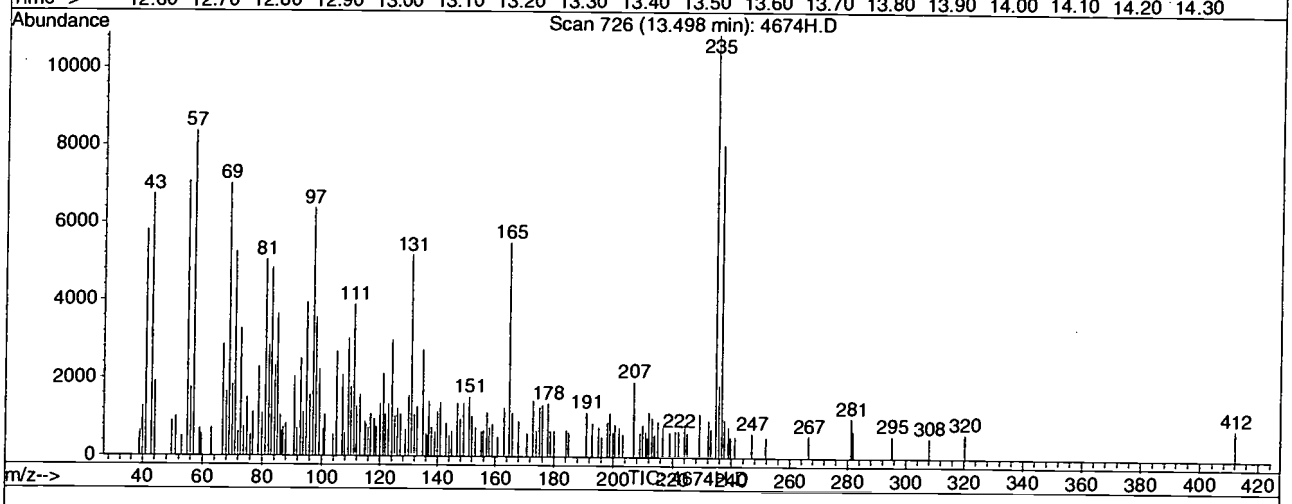
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(4) p,p'-DDD (M)

13.50min 0.10ug/ml

response 25879

Ion	Exp%	Act%
235.00	100	100
237.00	66.60	67.45
165.00	48.60	47.14
0.00	0.00	0.00

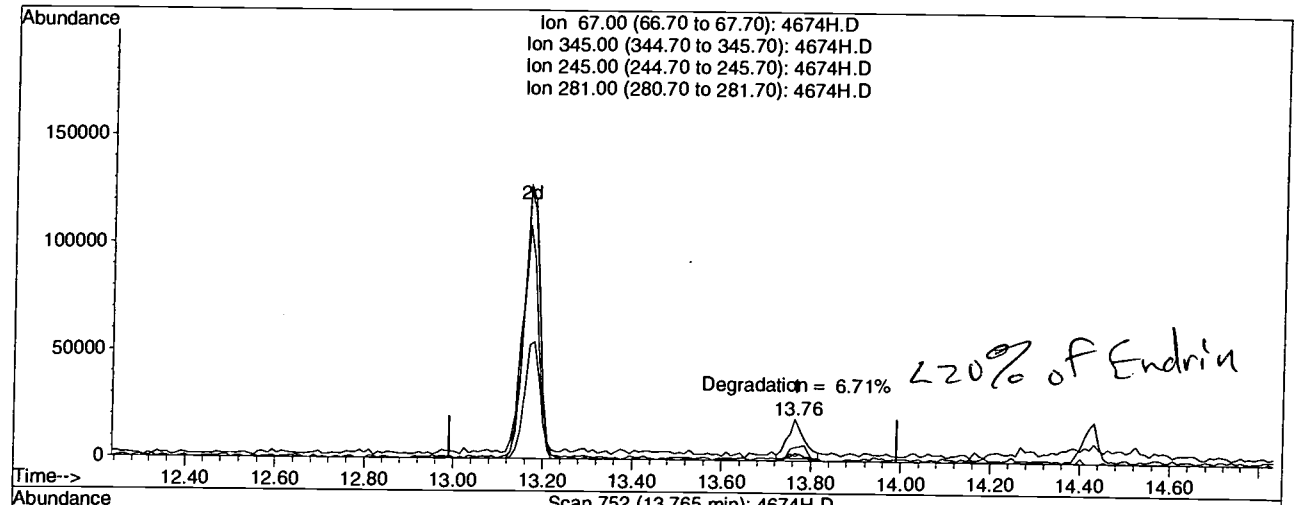
4674H.D DFTPPI.M Wed May 30 16:10:38 2001

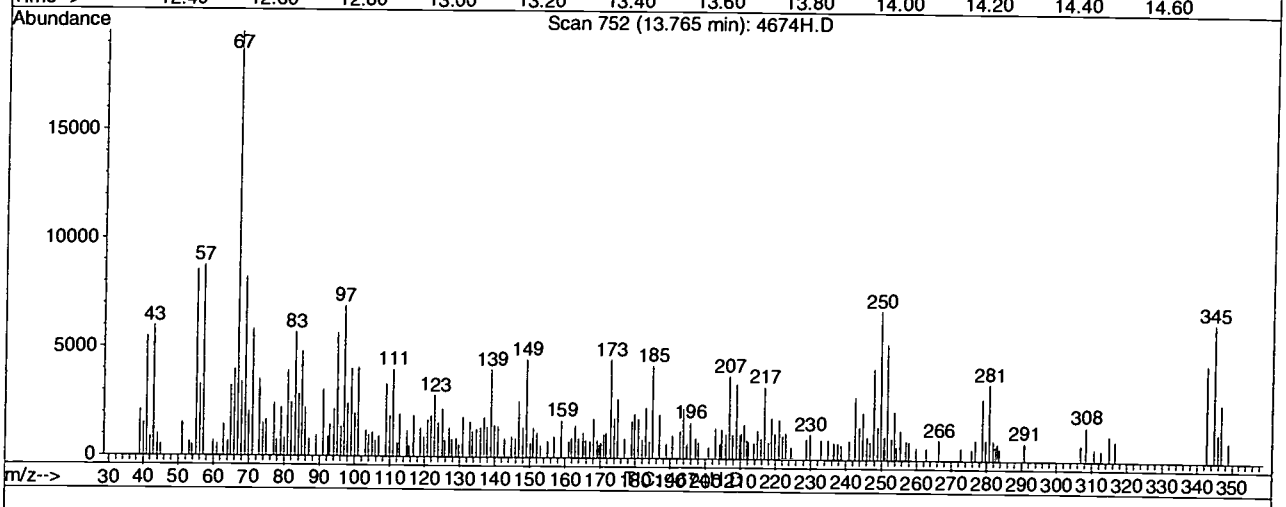
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(5) Endrin aldehyde (M)

13.76min 1.18ug/ml

response 45302

Ion	Exp%	Act%
67.00	100	100
345.00	63.90	43.93#
245.00	49.00	0.00#
281.00	46.90	21.71#

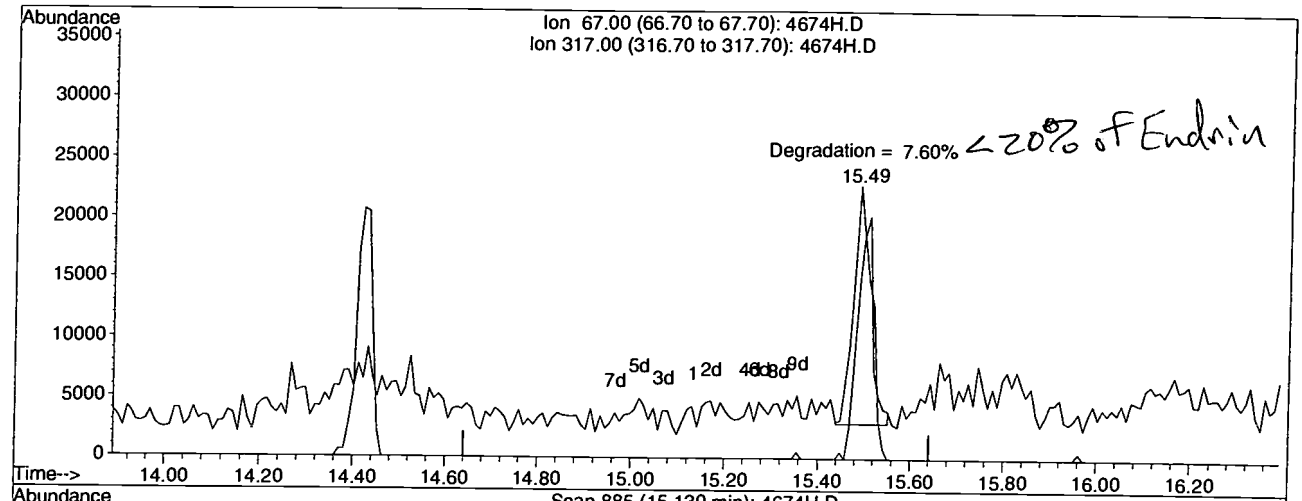
4674H.D DFTPPI.M Wed May 30 16:11:00 2001

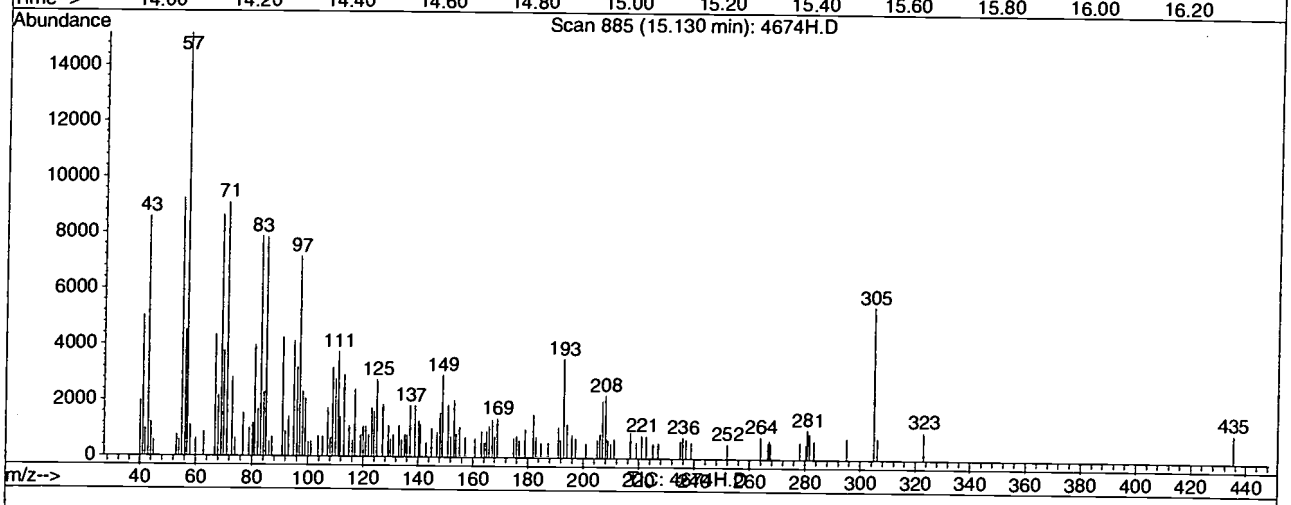
Quantitation Report

Data File : G:\H052901\4674H.D
Acq On : 29 May 01 4:12 pm
Sample : DFTPP
Misc :
Quant Time: May 29 16:31 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Single Level Calibration





(7) Endrin Ketone

15.13min 0.00ug/ml

response 3903

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

4674H.D DFTPPI.M Wed May 30 16:11:18 2001

R413588

Heritage Environmental Services
QC Report

Q1241503

QC Type CAL01
Date Entered 30May2001
Analysis Date/Time 29May2001 22:45:00

Duplicate Sample ID
Duplicate QCSampleID
Method
Matrix

Data File 4682H.D
Analyst 2447 J. MINNIEAR, II
Units

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE	0.9928					8.4
976	DICHLORVOS	0.6952					8.2
399	HEXACHLOROCYCLOPENTADIENE	0.2081					19.3
346	EPTC (ERADICANE)	0.4779					3.6
1007	MEVINPHOS	0.7831					12.2
1022	BUTYLATE (SUTAN PLUS)	0.4009					4.9
766	VERNOLATE	0.5505					5.4
2258	ETRIDIAZOLE	0.1828					7
310	DIMETHYLPHTHALATE	1.3096					4.5
571	PEBULATE (TILLAM)	0.5550					6.2
50	2,6-DINITROTOLUENE	0.1455					20.2
98	ACENAPHTHYLENE	1.6210					5.7
2257	CHLORNEB	0.5051					6.4
53	(1) 2-CHLOROBIPHENYL	1.0444					6.7
573	PENTACHLOROBENZENE	0.3382					8.1
821	TEBUTHIURON	0.1590					34.9
48	2,4-DINITROTOLUENE	0.1149					28.8
482	MOLINATE	0.6774					6.2
306	DIETHYLPHTHALATE	1.2506					8.8
366	FLUORENE	1.1160					5.5
621	PROPACHLOR	0.6147					5.7
1000	ETHOPROP	0.3210					8.3
996	CYCLOATE	0.5755					5.9
978	CHLOROPROPHAM	0.3287					5.7
753	TRIFLURALIN	0.2726					26.9
117	ALPHA-BHC	0.2220					9.3
952	(5) 2,3-DICHLOROBIPHENYL	0.6754					6.9
397	HEXACHLOROBENZENE	0.4481					7.4
994	ATRATON	0.2201					20.4
619	PROMETON (PRAMITOL)	0.2632					12.2
667	SIMAZINE (PRINCEP)	0.1571					10.1
143	ATRAZINE	0.2702					6.7
168	BETA-BHC	0.1449					19.8
622	PROPAZINE (MILOGARD)	0.2938					4.3
577	PENTACHLOROPHENOL	0.0506					62.1
380	GAMMA-BHC (LINDANE)	0.1707					15.2
700	TERBUFOS (COUNTER)	0.3502					7.3
1025	PRONAMIDE	0.3932					10
911	DIAZINON	0.2682					5
597	PHENANTHRENE	1.2018					8.5
1030	CHLOROTHALONIL (BRAVO)	0.2481					18.4
328	DISULFOTON	0.4951					7.9
128	ANTHRACENE	1.0184					5
1006	METHYLPARAOXON	0.0921					25.7
1013	TERBACIL	0.2052					18.9
290	DELTA-BHC	0.1136					5.4
959	2,4,5-TRICHLOROBIPHENYL	0.4302					4.2
3473	ACETOCHLOR	0.1607					7.6
481	METRIBUZIN (LEXONE)	0.1744					18.2
110	ALACHLOR	0.2267					5.3
1011	SIMETRYN	0.3132					17
993	AMETRYN	0.2891					12
391	HEPTACHLOR	0.2028					9.5

✓ 5.31-1

R413588

Heritage Environmental Services
QC Report

Q1241503

QC Type CAL01
Date Entered 30May2001
Analysis Date/Time 29May2001 22:45:00

Duplicate Sample ID
Duplicate QCSampleID
Method
Matrix

Data File 4682H.D
Analyst 2447 J. MINNIEAR, II
Units

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
1024	PROMETRYN (CAPAROL)	0.3486					11.1
1014	TERBUTRYN	0.2758					14.9
329	DI-N-BUTYLPHTHALATE	1.5524					8.9
1021	BROMACIL	0.1259					41.7
958	2,2',4,4'-TETRACHLOROBIPHENYL	0.2812					8.2
111	ALDRIN	0.1571					11.1
480	METOLACHLOR (DUAL)	0.6836					9.8
238	CHLOROPYRIFOS (DURSBAN)	0.0909					8.9
912	DCPA (DACTHAL)	0.2900					6.2
268	CYANAZINE (BLADEX)	0.0122					19.2
1015	TRIADIMEFON	0.2406					18.3
997	DIPHENAMID	0.4580					11.3
1008	MGK 264	0.1802					9.6
3575	MGK 264-B	0.1802					9.6
572	PENDIMETHALIN	0.1390					45.8
1008	MGK 264	0.2275					8.3
3575	MGK 264-B	0.2275					8.3
394	HEPTACHLOR EPOXIDE	0.1110					10.3
957	2,2',3',4,6-PENTACHLOROBIPHENYL	0.2052					4.6
381	GAMMA-CHLORDANE	0.1293					11.8
1012	STIROFOS	0.1947					20.6
995	BUTACHLOR	0.2168					15.6
118	ALPHA-CHLORDANE	0.1326					7.4
119	ALPHA-ENDOSULFAN	0.0635					8.2
749	TRANS-NONACHLOR	0.1286					6.7
1001	FENAMIPHOS	0.0741					39
1009	NAPROPAMIDE	0.3276					11.4
1016	TRICYCLAZOLE	0.0413					57.3
78	4,4'-DDE	0.2103					6.4
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0.1683					4.8
624	PYRENE	2.2584					12.2
303	DIELDRIN	0.4856					25.2
1023	CARBOXIN	0.5480					6.8
338	ENDRIN	0.0986					28.9
232	CHLOROBENZILATE	0.4544					11.8
169	BETA-ENDOSULFAN	0.0816					13.8
77	4,4'-DDD	0.7688					6.9
339	ENDRIN ALDEHYDE	0.1443					32
1010	NORFLURAZON	0.1677					24.3
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTI	0.8221					11.1
337	ENDOSULFAN SULFATE	0.0940					41.8
79	4,4'-DDT	0.5218					10.3
1004	HEXAZINONE	0.4575					27.3
953	DI(2-ETHYLHEXYL)ADIPATE	0.7478					8.4
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0.1787					11.4
155	BENZO(A)ANTHRACENE	1.3826					10.4
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	0.2157					11
474	METHOXYCHLOR	0.8056					13.5
245	CHRYSENE	1.2176					8.1
185	BIS(2-ETHYLHEXYL)PHTHALATE	1.0622					25
1002	FENARIMOL	0.1216					21.7
2259	CIS-PERMETHRIN	1.0768					11.7
2260	TRANS-PERMETHRIN	1.0747					8.1
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI	0.8540					9.8
159	BENZO(K)FLUORANTHENE	0.8670					7.3

R413588

Heritage Environmental Services
QC Report

Q1241503

QC Type CAL01
Date Entered 30May2001
Analysis Date/Time 29May2001 22:45:00

Duplicate Sample ID
Duplicate QCSampleID
Method
Matrix

Data File 4682H.D
Analyst 2447 J. MINNIEAR, II
Units

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
156	BENZO(A)PYRENE	0.6460					10.3
1003	FLURIDONE	0.1285					50.1
413	INDENO(1,2,3-CD)PYRENE	0.5148					14.1
294	DIBENZ(A,H)ANTHRACENE	0.4204					17.6
158	BENZO(G,H,I)PERYLENE	0.5076					11.1
2949	2-NITRO-M-XYLENE	0.2507					6
2894	TRIPHENYL ESTER PHOSPHORIC ACID	0.3194					9.9
3474	PERYLENE-D12	0.6763					8.5

Comments
NA

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.65	164	1646163	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1717669	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.05	240	789246	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	1315559	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.02	134	172839	2.17 ug/ml	0.00
100) Triphenylphosphate	28.26	326	99817	1.82 ug/ml	0.00
114) Perylene-d12	32.73	264	210155	1.46 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.14	82	635152	1.69 ug/ml#	85
4) Dichlorvos	15.76	109	450039	1.90 ug/ml#	81
5) Hexachlorocyclopentadiene	16.86	237	148085	1.86 ug/ml#	72
6) EPTC	17.14	128	310628	1.99 ug/ml#	29
7) Mevinphos	17.89	127	505463	1.95 ug/ml#	64
8) Butylate	17.94	146	262332	1.93 ug/ml#	34
9) Vernolate	18.15	128	366788	2.03 ug/ml#	54
10) Terrazole	18.20	211	122836	2.24 ug/ml	92
11) Dimethylphthalate	18.18	163	873716	1.87 ug/ml	100
12) Pebulate	18.31	128	359607	2.00 ug/ml#	41
13) 2,6-Dinitrotoluene	18.28	165	83254	5.48 ug/ml#	72
14) Acenaphthylene	18.36	152	1085087	1.99 ug/ml	100
15) Chloroneb	18.80	191	327842	1.85 ug/ml	96
16) 2-Chlorobiphenyl	18.83	188	679037	1.91 ug/ml	100
17) Pentachlorobenzene	19.00	248	225402	1.73 ug/ml#	41
18) Tebuthiuron	18.98	156	89442	3.10 ug/ml#	86
19) 2,4-Dinitrotoluene	19.12	165	60668	6.22 ug/ml#	68
20) Molinate	19.25	126	441237	2.04 ug/ml#	86
21) Diethylphthalate	19.70	149	834398	1.88 ug/ml	100
22) Fluorene	19.84	166	757800	2.09 ug/ml	94
23) Propachlor	19.93	120	412669	2.16 ug/ml#	3
24) Ethoprop	20.24	158	212861	2.22 ug/ml#	61
25) Cycloate	20.28	154	371348	2.08 ug/ml#	21
26) Chlorpropham	20.46	127	220918	2.34 ug/ml#	70
27) Trifluralin	20.49	306	179925	6.77 ug/ml	94
28) alpha-BHC	21.02	181	153882	1.93 ug/ml#	77
29) 2,3-Dichlorobiphenyl	21.05	222	454740	1.97 ug/ml	96
31) Hexachlorobenzene	21.10	284	324814	1.84 ug/ml	92
32) Atraton	21.24	196	162500	1.93 ug/ml#	69
33) Prometon	21.37	210	195084	1.99 ug/ml#	75
34) Simazine	21.39	201	112695	1.90 ug/ml	87
35) Atrazine	21.48	200	376309	3.98 ug/ml	100
36) beta-BHC	21.73	183	121610	2.41 ug/ml	94
37) Propazine	21.55	214	207901	2.08 ug/ml#	79
38) Pentachlorophenol	21.60	266	93138	4.04 ug/ml	97
39) g-BHC (Lindane)	21.53	181	96086	1.45 ug/ml	97
40) Terbufos	21.80	231	249590	1.85 ug/ml#	15
41) Pronamide	21.85	173	286424	2.25 ug/ml#	88
42) Diazinon	21.89	137	185735	1.82 ug/ml#	85
43) Phenanthrene	22.09	178	800696	1.91 ug/ml	98
44) Chlorothalonil	22.06	266	193835	1.76 ug/ml#	91
45) Disulfoton	22.16	88	342050	2.12 ug/ml#	47
46) Anthracene	22.22	178	719476	1.96 ug/ml	99
47) Methyl paraoxon	22.16	109	54922	3.06 ug/ml#	54

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.16	161	148764	2.29 ug/ml#	88
49) delta-BHC	22.32	181	83662	1.81 ug/ml#	69
50) Trichlorobiphenyl	22.65	256	312119	1.89 ug/ml	100
51) Acetochlor	22.90	146	121772	2.19 ug/ml#	69
52) Metribuzin	22.94	198	128306	2.41 ug/ml	100
53) Alachlor	23.09	160	330213	4.55 ug/ml	97
54) Simetryn	23.17	213	245742	2.19 ug/ml#	90
55) Ametryn	23.25	227	214860	2.09 ug/ml#	83
56) Heptachlor	23.32	100	139223	1.83 ug/ml#	82
57) Prometryn	23.30	241	267134	2.18 ug/ml	89
58) Terbutryn	23.59	226	206297	2.01 ug/ml#	80
59) Di-n-butyl phthalate	23.71	149	1063062	1.88 ug/ml	100
60) Bromacil	23.66	205	79704	2.24 ug/ml#	79
61) Tetrachlorobiphenyl	23.86	292	207673	1.77 ug/ml	100
62) Aldrin	24.11	66	112146	1.58 ug/ml#	79
63) Metolachlor	23.92	162	504265	2.26 ug/ml#	76
64) Chlorpyrifos	23.95	314	65618	1.93 ug/ml#	3
65) DCPA	24.06	301	209997	1.74 ug/ml#	82
66) Cyanazine	24.06	212	9372	1.78 ug/ml#	1
67) Triadimefon	24.19	57	162120	1.71 ug/ml#	66
68) Diphenamid	24.45	167	333686	2.06 ug/ml#	66
69) MGK 264-A	24.48	111	62326	0.95 ug/ml#	37
70) Pendimethalin	24.67	252	84151	6.76 ug/ml#	67
71) MGK 264-B	24.76	164	78700	1.04 ug/ml#	83
72) Heptachlor epoxide	24.94	81	77720	1.78 ug/ml#	69
73) Pentachlorobiphenyl	24.99	326	152810	1.80 ug/ml	100
74) g-Chlordane	25.46	375	98987	1.65 ug/ml	100
75) Stirofos	25.47	109	137712	1.62 ug/ml#	82
76) Butachlor	25.53	176	159215	2.92 ug/ml	100
77) a-Chlordane	25.74	373	95342	1.71 ug/ml#	77
78) Endosulfan I	25.76	195	46279	1.72 ug/ml#	75
79) trans-Nonachlor	25.80	409	95425	1.63 ug/ml#	76
80) Fenamiphos	25.78	303	45425	1.38 ug/ml#	81
81) Napropamide	25.85	72	230548	1.94 ug/ml#	73
82) Tricyclazole	26.11	189	26231	2.38 ug/ml#	77
83) p,p'-DDE	26.17	246	158026	1.80 ug/ml#	90
84) Hexachlorobiphenyl	26.31	360	125648	1.76 ug/ml#	78
86) Pyrene	25.74	202	667916	2.16 ug/ml	99
87) Dieldrin	26.34	79	133212	2.19 ug/ml#	73
88) Carboxin	26.37	143	167416	2.22 ug/ml#	80
89) Endrin	26.80	81	29884	1.75 ug/ml#	54
90) Chlorobenzilate	26.87	139	124527	4.10 ug/ml#	66
91) Endosulfan II	27.03	195	24600	1.80 ug/ml#	89
92) p,p'-DDD	27.07	235	236191	2.13 ug/ml	94
93) Endrin aldehyde	27.33	67	37039	1.58 ug/ml#	69
94) Norflurazon	27.64	145	52397	1.81 ug/ml#	84
95) Butylbenzylphthalate	27.74	149	239640	2.00 ug/ml#	81
96) Endosulfan sulfate	27.84	272	38180	2.24 ug/ml#	63
97) p,p'-DDT	27.90	235	165941	2.67 ug/ml#	75
98) Hexazinone	27.97	171	149996	1.84 ug/ml	98
99) Di(2-ethylhexyl)adipate	28.09	129	227978	2.21 ug/ml#	57
101) Heptachlorobiphenyl	28.94	394	55331	1.80 ug/ml#	5
102) Benz(a)anthracene	29.04	228	421776	1.87 ug/ml#	88
103) Octachlorobiphenyl	29.04	430	65214	1.77 ug/ml	90
104) Methoxychlor	29.05	227	247776	2.68 ug/ml#	73

(#) = qualifier out of range (m) = manual integration
4682H.D DRINKWI.M Wed May 30 15:23:45 2001

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105)	Chrysene	29.12	228	382454	1.92	ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.42	149	289281	1.87	ug/ml	93
107)	Fenarimol	30.30	139	29513	2.01	ug/ml#	85
108)	cis-Permethrin	30.94	183	273654	1.56	ug/ml#	65
109)	trans-Permethrin	31.09	183	41211	0.22	ug/ml#	79
110)	Benzo(b)fluoranthene	31.82	252	280507	1.61	ug/ml#	88
111)	Benzo(k)fluoranthene	31.89	252	269851	1.56	ug/ml#	93
112)	Benzo(a)pyrene	32.59	252	202442	1.49	ug/ml	100
113)	Fluridone	32.57	328	23023	0.75	ug/ml#	65
115)	Indeno(1,2,3-cd)pyrene	35.43	276	130314	1.10	ug/ml#	83
116)	Dibenz(a,h)anthracene	35.52	278	119404	1.18	ug/ml#	69
117)	Benzo(g,h,i)perylene	36.18	276	144022	1.22	ug/ml#	60

(#) = qualifier out of range (m) = manual integration

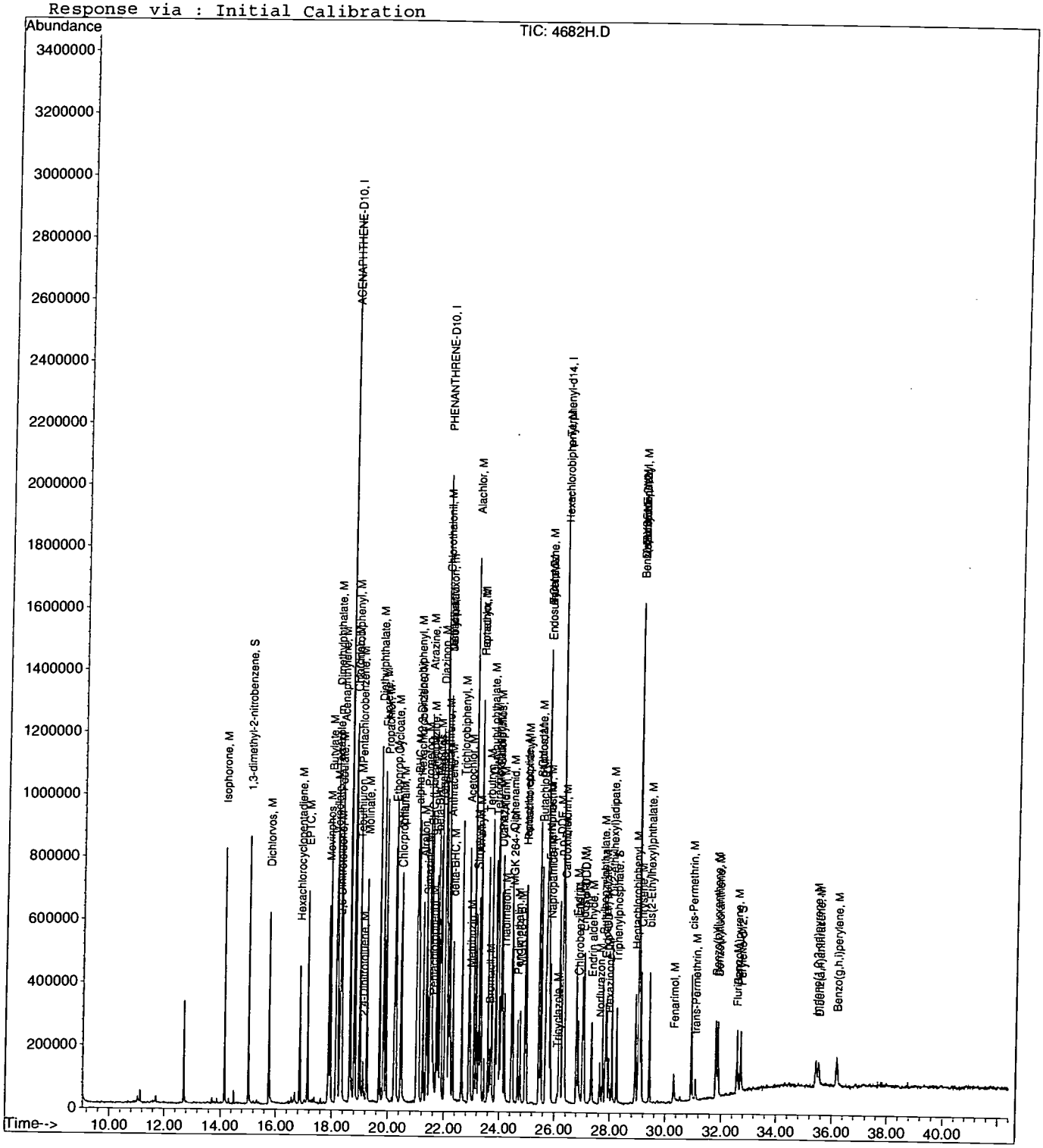
Quantitation Report

Data File : G:\H052901\4682H.D
Acq On : 29 May 01 10:45 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: May 30 10:54 2001

Vial: 8
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



R413588

Heritage Environmental Services
QC Report

Q1240474 4

QC Type SPI02
Date Entered 29May2001
Analysis Date/Time 30May2001 02:14:00

Duplicate Sample ID A554400
Duplicate QCSampleID
Method 304 Matrix 1

Data File 4686H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE	0	2	2.03		101.5	
976	DICHLORVOS	0	2	1.8		90	
399	HEXACHLOROCYCLOPENTADIENE	0	2	2.22		111	
405	HEXACHLOROCYCLOPENTADIENE.	0	2	2.22		111	
346	EPTC (ERADICANE)	0	2	1.86		93	
1007	MEVINPHOS	0	2	1.54		77	
201	BUTYLATE	0	2	1.82		91	
1022	BUTYLATE (SUTAN PLUS)	0	2	1.82		91	
766	VERNOLATE	0	2	1.91		95.5	
2258	ETRIDIAZOLE	0	2	2.2		110	
310	DIMETHYLPHTHALATE	0	2	2.08		104	
571	PEBULATE (TILLAM)	0	2	1.83		91.5	
50	2,6-DINITROTOLUENE	0	2	1.01		50.5	
98	ACENAPHTHYLENE	0	2	2.03		101.5	
2257	CHLORNEB	0	2	2.1		105	
53	(1) 2-CHLOROBIPHENYL	0	2	2.06		103	
573	PENTACHLOROBENZENE	0	2	1.8		90	
821	TEBUTHIURON	0	2	1.45		72.5	
48	2,4-DINITROTOLUENE	0	2	.93	!	46.5	
482	MOLINATE	0	2	2.01		100.5	
306	DIETHYLPHTHALATE	0	2	1.94		97	
366	FLUORENE	0	2	1.9		95	
621	PROPACHLOR	0	2	1.83		91.5	
1000	ETHOPROP	0	2	1.85		92.5	
996	CYCLOATE	0	2	1.92		96	
978	CHLOROPROPHAM	0	2	1.99		99.5	
753	TRIFLURALIN	0	2	1.69		84.5	
117	ALPHA-BHC	0	2	2.4		120	
952	(5) 2,3-DICHLOROBIPHENYL	0	2	2.14		107	
397	HEXACHLOROBENZENE	0	2	1.75		87.5	
994	ATRATON	0	2	.31	!	15.5	
619	PROMETON (PRAMITOL)	0	2	.5	!	25	
667	SIMAZINE (PRINCEP)	0	2	1.42		71	
1819	SIMAZINE	0	2	1.42		71	
143	ATRAZINE	0	4	3.03		75.8	
168	BETA-BHC	0	2	1.89		94.5	
622	PROPAZINE (MILOGARD)	0	2	1.44		72	
577	PENTACHLOROPHENOL	0	8	19.1	!	238.8	
380	GAMMA-BHC (LINDANE)	0	2	2.28		114	
700	TERBUFOS (COUNTER)	0	2	2.06		103	
1025	PRONAMIDE	0	2	1.81		90.5	
911	DIAZINON	0	2	1.74		87	
597	PHENANTHRENE	0	2	1.89		94.5	
1030	CHLOROTHALONIL (BRAVO)	0	2	2.4		120	
328	DISULFOTON	0	2	1.46		73	
128	ANTHRACENE	0	2	.99	!	49.5	6/10/00
1006	METHYLPARAOXON	0	2	1.22		61	
1013	TERBACIL	0	2	1.83		91.5	
290	DELTA-BHC	0	2	2.2		110	
959	2,4,5-TRICHLOROBIPHENYL	0	2	2.05		102.5	✓
3473	ACETOCHLOR	0	2	2.18		109	LAS 5-31-1
481	METRIBUZIN (LEXONE)	0	2	1.68		84	
2111	METRIBUZIN	0	2	1.68		84	

R413588

Heritage Environmental Services
QC Report

Q1240474

QC Type SPI02
Date Entered 29May2001
Analysis Date/Time 30May2001 02:14:00

Duplicate Sample ID A554400
Duplicate QCSampleID
Method 304 Matrix 1

Data File 4686H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
110	ALACHLOR	0	4	3.95		98.8	
1011	SIMETRYN	0	2	.73	!	36.5	
993	AMETRYN	0	2	1		50	
391	HEPTACHLOR	0	2	1.79		89.5	
620	PROMETRYN	0	2	1.18		59	
1024	PROMETRYN (CAPAROL)	0	2	1.18		59	
1014	TERBUTRYN	0	2	1.02		51	
329	DI-N-BUTYLPHTHALATE	0	2	2.19		109.5	
1021	BROMACIL	0	2	2.03		101.5	
958	2,2',4,4'-TETRACHLOROBIPHENYL	0	2	2.19		109.5	
111	ALDRIN	0	2	1.94		97	
466	METOLACHLOR	0	2	2.11		105.5	
480	METOLACHLOR (DUAL)	0	2	2.11		105.5	
238	CHLOROPYRIFOS (DURSBAN)	0	2	2.14		107	
333	DURSBAN (INACTIVE USE #238)	0	2	2.14		107	
912	DCPA (DACTHAL)	0	2	2.44		122	
268	CYANAZINE (BLADEX)	0	2	2.62	!	131	
1015	TRIADIMEFON	0	2	2.29		114.5	
997	DIPHENAMID	0	2	1.84		92	
1008	MGK 264	0	1	.93		93	
3575	MGK 264-B	0	1	.93		93	
572	PENDIMETHALIN	0	2	1.9		95	
1008	MGK 264	0	1	.9		90	
3575	MGK 264-B	0	1	.9		90	
394	HEPTACHLOR EPOXIDE	0	2	2.1		105	
957	2,2',3',4,6-PENTACHLOROBIPHENYL	0	2	1.96		98	
381	GAMMA-CHLORDANE	0	2	2.21		110.5	
1012	STIROFOS	0	2	2.1		105	
995	BUTACHLOR	0	2	2.21		110.5	
118	ALPHA-CHLORDANE	0	2	2.19		109.5	
119	ALPHA-ENDOSULFAN	0	2	2.25		112.5	
335	ENDOSULFAN I	0	2	2.25		112.5	
749	TRANS-NONACHLOR	0	2	2.07		103.5	
1001	FENAMIPHOS	0	2	2.1		105	
1009	NAPROPAMIDE	0	2	1.92		96	
1016	TRICYCLAZOLE	0	2	2.26		113	
78	4,4'-DDE	0	2	1.92		96	
799	P,P'-DDE	0	2	1.92		96	
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0	2	1.78		89	
624	PYRENE	0	2	2.19		109.5	
303	DIELDRIN	0	2	2.32		116	
1023	CARBOXIN	0	2	.93	!	46.5	
338	ENDRIN	0	2	3.33	!	166.5	
232	CHLOROBENZILATE	0	2	3.84	!	192	
169	BETA-ENDOSULFAN	0	2	3.22	!	161	
336	ENDOSULFAN II	0	2	3.22	!	161	
77	4,4'-DDD	0	2	2.62	!	131	
800	P,P'-DDD	0	2	2.62	!	131	
339	ENDRIN ALDEHYDE	0	2	2.38		119	
1010	NORFLURAZON	0	2	3.11	!	155.5	
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTH	0	2	2.54		127	
337	ENDOSULFAN SULFATE	0	2	4.38	!	219	
79	4,4'-DDT	0	2	2.74	!	137	
798	P,P'-DDT	0	2	2.74	!	137	
1004	HEXAZINONE	0	2	2.55		127.5	

R413588

Heritage Environmental Services
QC Report

Q1240474

QC Type SPI02
Date Entered 29May2001
Analysis Date/Time 30May2001 02:14:00

Duplicate Sample ID A554400
Duplicate QCSampleID
Method 304 Matrix 1

Data File 4686H.D
Analyst 2447 J. MINNIEAR, II
Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
953	DI(2-ETHYLHEXYL)ADIPATE	0	2	2.24		112	
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0	2	2.17		108.5	
155	BENZO(A)ANTHRACENE	0	2	2.19		109.5	
163	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACEI	0	2	2.19		109.5	
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	0	2	2.06		103	
474	METHOXYCHLOR	0	2	3.2	!	160	
245	CHRYSENE	0	2	1.95		97.5	
185	BIS(2-ETHYLHEXYL)PHTHALATE	.71	2	8.74	!	401.5	
1002	FENARIMOL	0	2	2.75		137.5	
2259	CIS-PERMETHRIN	0	1.72	2.2		127.9	
2260	TRANS-PERMETHRIN	0	.28	.36		128.6	
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI	0	2	2.27		113.5	
159	BENZO(K)FLUORANTHENE	0	2	2.21		110.5	
156	BENZO(A)PYRENE	0	2	2.36 ~~2.34~~		~~117~~ 118	
1003	FLURIDONE	0	2	3.26	!	163	
413	INDENO(1,2,3-CD)PYRENE	0	2	2.1		105	
294	DIBENZ(A,H)ANTHRACENE	0	2	2.63	!	131.5	
158	BENZO(G,H,I)PERYLENE	0	2	2.44		122	

(5 min 5-30-01)

Comments
NA

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4686H.D
Acq On : 30 May 01 2:14 am
Sample : A554400 MS
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: May 30 15:53 2001

Vial: 12
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.65	164	1052027	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1179256	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.06	240	432535	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	643463	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.02	134	283082	5.37 ug/ml	0.00
100) Triphenylphosphate	28.25	326	215916	7.81 ug/ml	0.00
114) Perylene-d12	32.72	264	342460	5.85 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.14	82	423280	2.03 ug/ml#	91
4) Dichlorvos	15.76	109	262893	1.80 ug/ml#	82
5) Hexachlorocyclopentadiene	16.86	237	97263	2.22 ug/ml#	71
6) EPTC	17.13	128	187520	1.86 ug/ml#	31
7) Mevinphos	17.89	127	253872	1.54 ug/ml#	67
8) Butylate	17.95	146	153655	1.82 ug/ml#	31
9) Vernolate	18.15	128	221476	1.91 ug/ml#	54
10) Terrazole	18.20	211	84625	2.20 ug/ml	92
11) Dimethylphthalate	18.18	163	571997	2.08 ug/ml	100
12) Pebulate	18.31	128	213785	1.83 ug/ml#	38
13) 2,6-Dinitrotoluene	18.28	165	30851	1.01 ug/ml#	71
14) Acenaphthylene	18.35	152	693952	2.03 ug/ml	100
15) Chloroneb	18.80	191	222999	2.10 ug/ml	94
16) 2-Chlorobiphenyl	18.83	188	452403	2.06 ug/ml	100
17) Pentachlorobenzene	19.01	248	128427	1.80 ug/ml#	32
18) Tebuthiuron	19.00	156	48445	1.45 ug/ml#	92
19) 2,4-Dinitrotoluene	19.11	165	22450	0.93 ug/ml#	67
20) Molinate	19.26	126	286874	2.01 ug/ml#	80
21) Diethylphthalate	19.70	149	510409	1.94 ug/ml	100
22) Fluorene	19.85	166	445973	1.90 ug/ml	97
23) Propachlor	19.93	120	236185	1.83 ug/ml#	3
24) Ethoprop	20.23	158	124927	1.85 ug/ml#	51
25) Cycloate	20.28	154	232355	1.92 ug/ml#	28
26) Chlorpropham	20.46	127	137465	1.99 ug/ml#	67
27) Trifluralin	20.49	306	96716	1.69 ug/ml	95
28) alpha-BHC	21.01	181	112061	2.40 ug/ml#	80
29) 2,3-Dichlorobiphenyl	21.05	222	304701	2.14 ug/ml	95
31) Hexachlorobenzene	21.09	284	184517	1.75 ug/ml#	92
32) Atraton	21.26	196	15948	0.31 ug/ml#	83
33) Prometon	21.37	210	31330	0.50 ug/ml#	85
34) Simazine	21.39	201	52500	1.42 ug/ml#	80
35) Atrazine	21.48	200	192818	3.03 ug/ml	100
36) beta-BHC	21.52	183	64691m	1.89 ug/ml	80
37) Propazine	21.55	214	99733	1.44 ug/ml#	80
38) Pentachlorophenol	21.59	266	227346	19.07 ug/ml	94
39) g-BHC (Lindane)	21.73	181	91907m	2.28 ug/ml	86
40) Terbufos	21.79	231	169817	2.06 ug/ml#	14
41) Pronamide	21.85	173	167540	1.81 ug/ml#	87
42) Diazinon	21.89	137	110364	1.74 ug/ml	88
43) Phenanthrene	22.09	178	535610	1.89 ug/ml	98
44) Chlorothalonil	22.05	266	140253	2.40 ug/ml#	88
45) Disulfoton	22.16	88	170006	1.46 ug/ml#	45
46) Anthracene	22.21	178	236913	0.99 ug/ml	96
47) Methyl paraoxon	22.16	109	26432	1.22 ug/ml#	63

(#) = qualifier out of range (m) = manual integration
4686H.D DRINKWI.M Wed May 30 15:55:33 2001

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4686H.D
Acq On : 30 May 01 2:14 am
Sample : A554400 MS
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: May 30 15:53 2001

Vial: 12
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) Terbacil	22.16	161	88795	1.83	ug/ml#	83
49) delta-BHC	22.32	181	58929	2.20	ug/ml#	60
50) Trichlorobiphenyl	22.64	256	207736	2.05	ug/ml	100
51) Acetochlor	22.90	146	82625	2.18	ug/ml#	70
52) Metribuzin	22.94	198	68946	1.68	ug/ml	100
53) Alachlor	23.09	160	211117	3.95	ug/ml	96
54) Simetryn	23.17	213	53948	0.73	ug/ml#	94
55) Ametryn	23.25	227	67890	1.00	ug/ml#	83
56) Heptachlor	23.32	100	85820	1.79	ug/ml#	80
57) Prometryn	23.31	241	96957	1.18	ug/ml	90
58) Terbutryn	23.59	226	66195	1.02	ug/ml#	82
59) Di-n-butyl phthalate	23.72	149	802539	2.19	ug/ml	99
60) Bromacil	23.65	205	60411	2.03	ug/ml#	73
61) Tetrachlorobiphenyl	23.86	292	145041	2.19	ug/ml	100
62) Aldrin	24.11	66	71863	1.94	ug/ml#	82
63) Metolachlor	23.92	162	340877	2.11	ug/ml#	73
64) Chlorpyrifos	23.95	314	45952	2.14	ug/ml#	14
65) DCPA	24.07	301	167070	2.44	ug/ml#	85
66) Cyanazine	24.06	212	7518	2.62	ug/ml#	22
67) Triadimefon	24.19	57	129874	2.29	ug/ml#	60
68) Diphenamid	24.45	167	198719	1.84	ug/ml#	68
69) MGK 264-A	24.49	111	39508	0.93	ug/ml#	46
70) Pendimethalin	24.67	252	62350	1.90	ug/ml#	65
71) MGK 264-B	24.76	164	48291	0.90	ug/ml#	81
72) Heptachlor epoxide	24.94	81	54885	2.10	ug/ml#	64
73) Pentachlorobiphenyl	24.98	326	94727	1.96	ug/ml	100
74) g-Chlordane	25.46	375	67262	2.21	ug/ml	100
75) Stirofos	25.47	109	96576	2.10	ug/ml#	82
76) Butachlor	25.53	176	112861	2.21	ug/ml	100
77) a-Chlordane	25.74	373	68431	2.19	ug/ml	90
78) Endosulfan I	25.76	195	33737	2.25	ug/ml#	25
79) trans-Nonachlor	25.80	409	62631	2.07	ug/ml#	60
80) Fenamiphos	25.78	303	36652	2.10	ug/ml#	91
81) Napropamide	25.85	72	148685	1.92	ug/ml#	75
82) Tricyclazole	26.12	189	21987m	2.26	ug/ml	96
83) p,p'-DDE	26.17	246	95340	1.92	ug/ml#	86
84) Hexachlorobiphenyl	26.31	360	70816	1.78	ug/ml#	77
86) Pyrene	25.74	202	426963	2.19	ug/ml	99
87) Dieldrin	26.35	79	97477	2.32	ug/ml#	76
88) Carboxin	26.35	143	44170	0.93	ug/ml#	83
89) Endrin	26.80	81	28433	3.33	ug/ml#	75
90) Chlorobenzilate	26.86	139	150917	3.84	ug/ml#	60
91) Endosulfan II	27.03	195	22764	3.22	ug/ml#	79
92) p,p'-DDD	27.08	235	174261	2.62	ug/ml	96
93) Endrin aldehyde	27.34	67	29666	2.38	ug/ml#	72
94) Norflurazon	27.64	145	45149	3.11	ug/ml#	86
95) Butylbenzylphthalate	27.74	149	180725	2.54	ug/ml#	84
96) Endosulfan sulfate	27.84	272	35603	4.38	ug/ml#	62
97) p,p'-DDT	27.90	235	123508	2.74	ug/ml#	74
98) Hexazinone	27.97	171	100849	2.55	ug/ml	96
99) Di(2-ethylhexyl)adipate	28.08	129	144996	2.24	ug/ml#	55
101) Heptachlorobiphenyl	28.93	394	33583	2.17	ug/ml#	1
102) Benz(a)anthracene	29.03	228	262145	2.19	ug/ml#	86
103) Octachlorobiphenyl	29.04	430	38374	2.06	ug/ml	86
104) Methoxychlor	29.05	227	223161	3.20	ug/ml#	36

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H052901\4686H.D
Acq On : 30 May 01 2:14 am
Sample : A554400 MS
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: May 30 15:53 2001

Vial: 12
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105)	Chrysene	29.12	228	205067	1.95	ug/ml#	100
106)	bis(2-Ethylhexyl)phthalate	29.43	149	803264	8.74	ug/ml#	93
107)	Fenarimol	30.30	139	28896	2.75	ug/ml#	87
108)	cis-Permethrin	30.94	183	204579	2.20	ug/ml#	64
109)	trans-Permethrin	31.08	183	33037	0.36	ug/ml#	80
110)	Benzo(b)fluoranthene	31.82	252	167765	2.27	ug/ml#	86
111)	Benzo(k)fluoranthene	31.89	252	165993	2.21	ug/ml#	94
112)	Benzo(a)pyrene	32.59	252	131746	2.36 ~~2.34~~	ug/ml	100
113)	Fluridone	32.56	328	36207	3.26	ug/ml#	66
115)	Indeno(1,2,3-cd)pyrene	35.42	276	93690	2.10	ug/ml#	74
116)	Dibenz(a,h)anthracene	35.52	278	95693	2.63	ug/ml#	63
117)	Benzo(g,h,i)perylene	36.18	276	107062	2.44	ug/ml#	54

(#) = qualifier out of range (m) = manual integration
4686H.D DRINKWI.M Wed May 30 15:55:36 2001

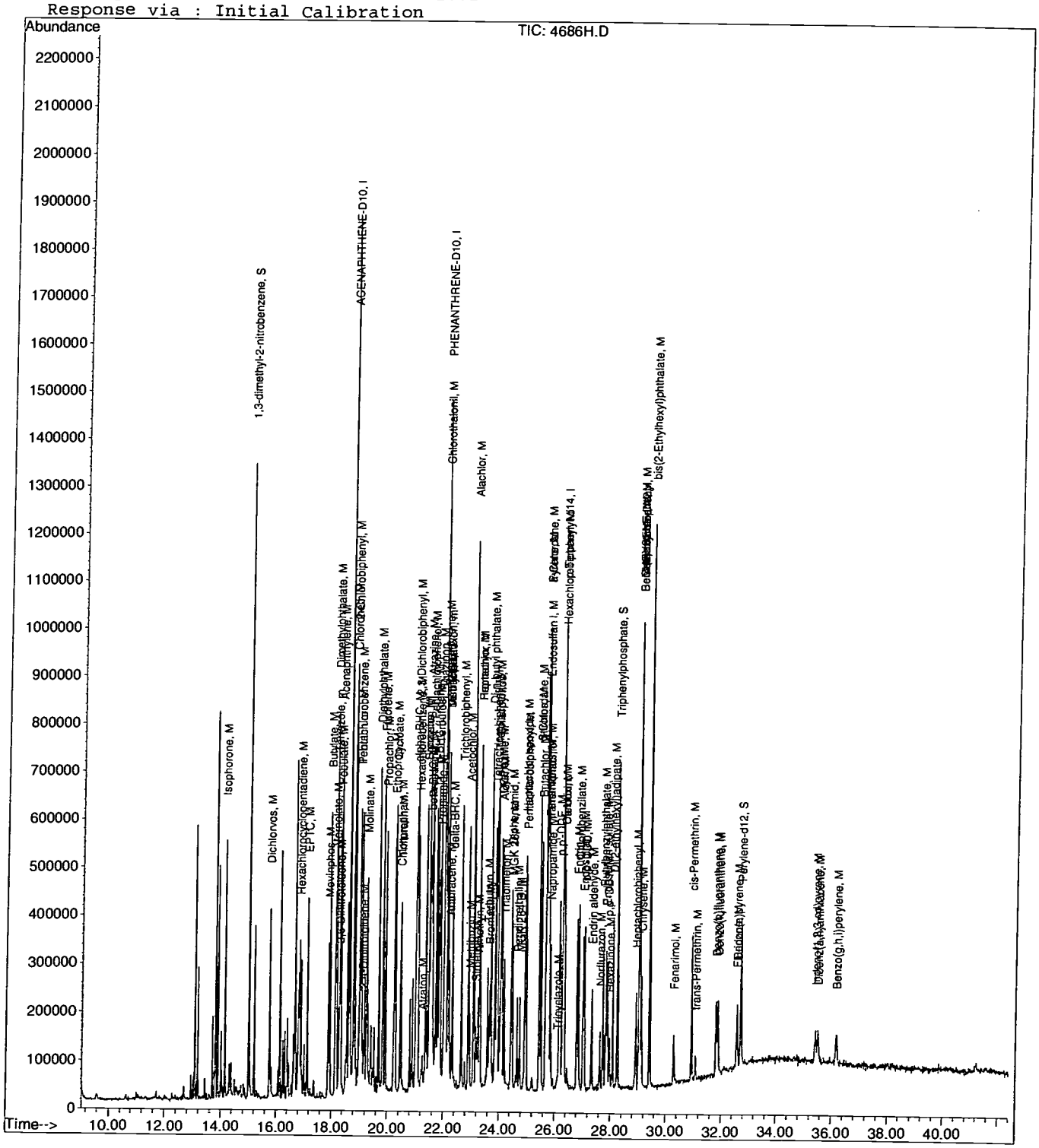
Quantitation Report

Data File : G:\H052901\4686H.D
Acq On : 30 May 01 2:14 am
Sample : A554400 MS
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: May 30 15:53 2001

Vial: 12
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 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: 4689H.D DFTPP Injection Date: 06/07/01

Instrument ID: #8 DFTPP Injection Time: 15:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	24.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	41.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	43.4
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	5.5
275	10.0 - 30.0% of mass 198	21.8
365	Greater than 0.75% of mass 198	1.9
441	Present, but less than mass 443	12.7
442	40.0 - 110.0% of mass 198	76.3
443	15.0 - 24.0% of mass 442	15.3 (20.0)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	4690H.D	06/07/01	16:10
02	SBLK2241-623	SBLK2241-623	4691H.D	06/07/01	17:19
03	LCS #843	LCS #843	4692H.D	06/07/01	18:11
04	A554752	A554752	4693H.D	06/07/01	19:03
05	A554753	A554753	4694H.D	06/07/01	19:55
06	A554754	A554754	4695H.D	06/07/01	20:47
07	A555261	A555261	4696H.D	06/07/01	21:39
08	A554752	A554752	4697H.D	06/07/01	22:32
09	A554753	A554753	4698H.D	06/07/01	23:23
10	A554754	A554754	4699H.D	06/08/01	00:15
11	A555261	A555261	4700H.D	06/08/01	01:07
12	LCS #843	LCS #843	4701H.D	06/08/01	01:59
13	SBLK2241-623	SBLK2241-623	4702H.D	06/08/01	02:51

✓ LAS 6-13-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: HERITAGE Contract: _____

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

Lab File ID (Standard): 4690H.D Date Analyzed: 06/07/01

Instrument ID: #8 Time Analyzed: 16:10

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	1402884	18.66	1369914	22.04	735040	29.06
	UPPER LIMIT	2805768	18.16	2739828	21.54	1470080	28.56
	LOWER LIMIT	701442	19.16	684957	22.54	367520	29.56
	EPA SAMPLE NO.						
01	SBLK2241-62	522949 *	18.65	670078 *	22.04	337863 *	29.07
02	LCS #843	830553 *	18.66	1003541 *	22.04	489551 *	29.06
03	A554752	742345 *	18.66	770334 *	22.03	314635 *	29.06
04	A554753	690809 *	18.65	735295 *	22.03	303579 *	29.06
05	A554754	677022 *	18.65	769685 *	22.03	302593 *	29.06
06	A555261	497732 *	18.65	524428 *	22.03	258185 *	29.06
07	A554752	745815 *	18.66	783944 *	22.03	344266 *	29.06
08	A554753	776298 *	18.65	816837 *	22.03	357939 *	29.06
09	A554754	761285 *	18.65	828273 *	22.03	342251 *	29.06
10	A555261	558731 *	18.65	605284 *	22.03	257409 *	29.06
11	LCS #843	959467 *	18.65	1168453	22.03	463487 *	29.06
12	SBLK2241-62	635946 *	18.65	716541 *	22.03	298468 *	29.06

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: 07-Jun-01 Instrument: #8

	EPA SAMPLE NO.	S1 DMN #	S2 TPP #	S3 PED #	TOT OUT
01	SBLK2241-623	107	56	76	0
02	LCS #843	104	96	94	0
03	A554752	107	87	91	0
04	A554753	106	85	91	0
05	A554754	103	88	90	0
06	A555261	107	97	82	0
07	A554752	108	90	94	0
08	A554753	102	95	92	0
09	A554754	104	91	83	0
10	A555261	108	105	82	0
11	LCS #843	102	107	80	0
12	SBLK2241-623	108	77	75	0

QC LIMITS

S1	DMN	=	1,3-dimethyl-2-nitrobenzene	(50-130)
S2	TPP	=	Triphenylphosphate	(50-130)
S3	PED	=	Perylene-d12	(50-130)

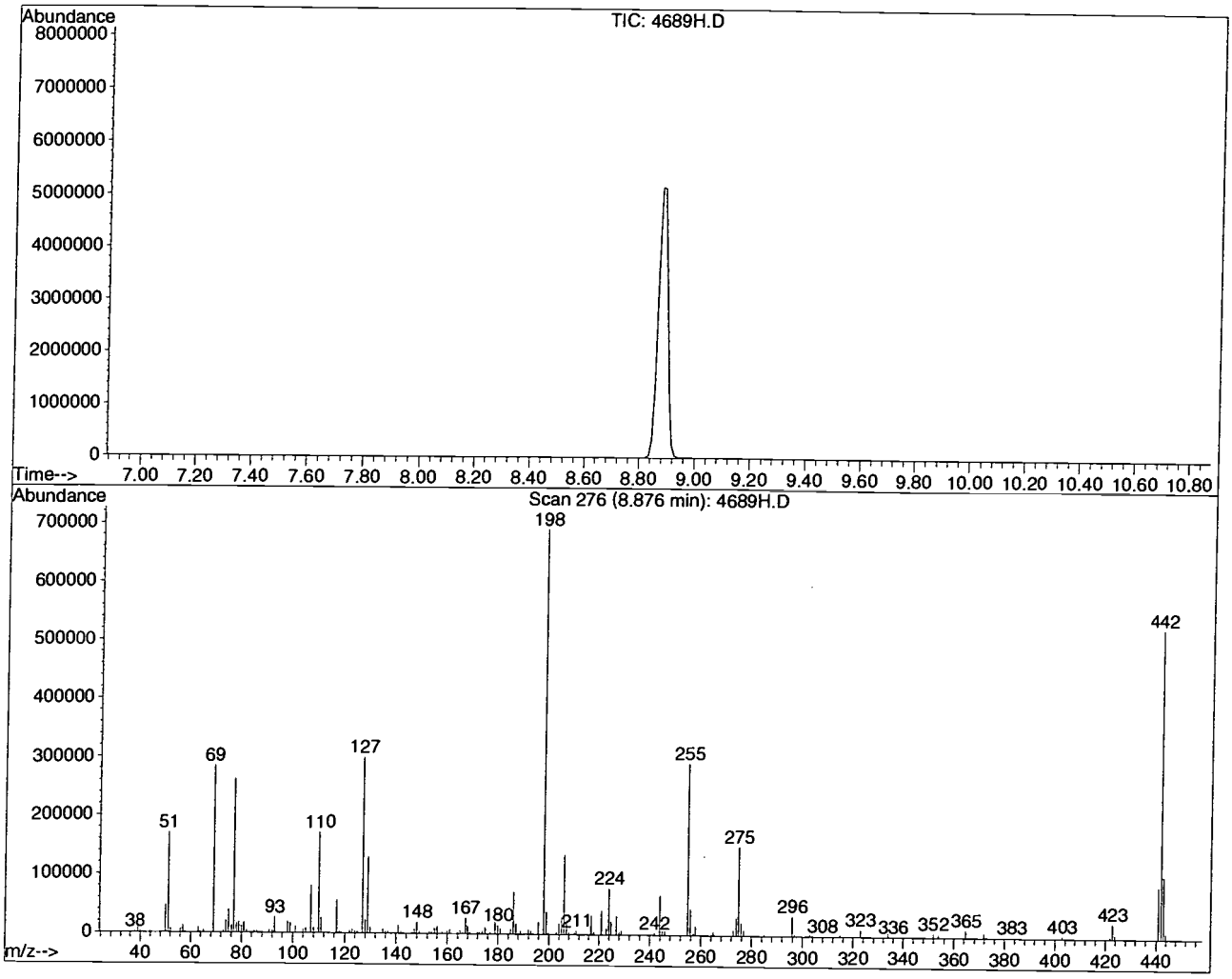
✓
WS
6-13-1

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

DFTPP

Data File : G:\H060701\4689H.D
Acq On : 7 Jun 01 3:09 pm
Sample : DFTPP
Misc :
MS Integration Params: rteint.p
Method : G:\HPCHEM\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 276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.6	170304	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.2	284544	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	43.4	299776	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	691456	PASS
199	198	5	9	5.5	37696	PASS
275	198	10	60	21.8	150912	PASS
365	198	1	100	1.9	12978	PASS
441	443	0.01	100	83.3	87920	PASS
442	198	50	150	76.3	527552	PASS
443	442	15	24	20.0	105536	PASS

4689H.D DFTPPI.M Mon Jun 11 12:48:10 2001

Scan 276 (8.876 min): 4689H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.15	793	55.95	6411	74.95	39560	86.95	2747
37.95	2080	56.95	12770	76.05	12795	87.95	652
39.05	12999	57.85	856	76.95	262336	90.95	4601
39.95	2766	61.05	2586	78.05	16584	92.05	4195
41.05	903	61.95	2188	78.95	18808	92.95	27184
43.95	2655	62.95	9035	79.95	12212	93.95	2034
48.95	1042	63.85	1856	80.95	17680	95.95	2552
49.95	46264	65.05	5265	81.85	4709	97.95	19456
51.05	170304	68.95	284544	82.95	3318	98.95	16888
52.05	6559	72.95	3180	84.95	3859	100.15	1328
54.85	586	73.95	20888	85.95	4301	101.05	11022

Scan 276 (8.876 min): 4689H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.95	987	117.90	3031	131.00	2003	147.00	7405
102.95	2717	118.90	804	131.90	1176	147.90	19848
103.95	6063	120.00	1384	133.90	2556	148.90	4105
104.95	7774	121.90	5049	134.90	6921	150.00	507
106.95	80200	122.90	6480	135.90	3768	150.90	2060
108.05	9397	123.90	4069	136.90	4435	151.50	1688
109.95	170944	124.80	3138	140.90	13898	152.80	3697
110.90	26720	126.90	299776	142.00	3926	153.80	3514
111.90	2819	128.00	22304	142.70	2862	155.00	9240
113.00	531	128.90	129976	143.90	929	156.00	12035
116.90	56576	129.90	10147	146.10	2055	156.90	2063

Scan 276 (8.876 min): 4689H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.90	3236	170.70	833	183.70	1528	195.90	20704
158.80	1993	172.00	3177	184.90	8406	197.90	691456
159.90	4528	172.80	3984	186.00	71656	198.90	37696
160.90	7169	173.90	4547	187.00	17824	199.80	2764
164.00	2167	175.00	11379	187.90	1596	201.40	1826
164.90	6137	175.80	2802	188.90	5449	201.90	1799
165.90	3281	176.90	3629	190.10	622	202.90	4749
167.00	26880	178.90	21832	191.00	1947	203.90	19352
167.90	12996	179.90	15134	191.90	7475	205.00	30256
168.80	2777	180.90	8796	192.90	5665	206.00	136064
169.90	1070	182.10	1110	193.70	1205	206.95	19792

Scan 276 (8.876 min): 4689H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.85	3823	226.85	32008	239.05	609	251.85	772
208.95	1274	227.95	4857	239.85	1051	252.45	769
210.15	3713	228.85	7625	240.95	1266	253.05	1851
210.95	6404	229.85	1348	241.85	3269	254.85	292224
215.05	1347	230.95	2455	243.95	67560	255.85	44032
216.85	32632	232.15	546	244.85	6848	257.05	3601
217.85	4622	233.05	646	245.85	7654	257.85	15990
220.95	41120	233.75	1935	246.75	1525	258.85	1731
222.95	10923	234.85	2011	247.65	785	264.05	1487
223.95	78664	235.85	1562	248.95	1389	264.85	5881
224.85	21760	236.85	1210	250.85	1009	265.85	767

Scan 276 (8.876 min): 4689H.D
DFTPP

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
269.85	554	283.85	1444	304.80	501	327.90	968
270.75	1076	284.95	2881	308.00	552	331.60	718
272.05	1146	288.75	546	311.90	662	332.10	882
272.85	8962	290.05	612	313.80	1773	332.80	1192
273.95	30544	292.05	705	314.80	3123	333.90	7370
274.85	150912	292.85	1644	315.90	1313	334.90	1602
275.85	21280	295.85	33840	321.00	943	335.90	607
276.85	8838	296.85	3743	322.00	1131	340.80	2068
277.85	2014	301.95	690	322.90	12344	341.90	837
281.85	710	302.90	3796	323.70	1817	345.80	2095

283.05	1169	303.90	1166	326.80	2067	347.00	500

Scan 276 (8.876 min): 4689H.D
DFTPP

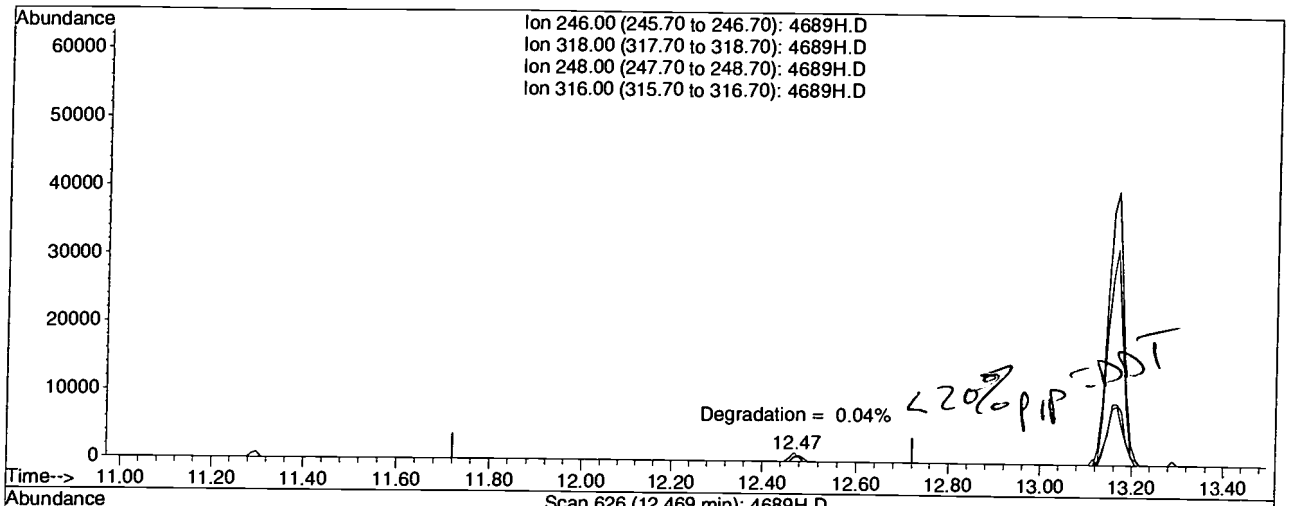
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
351.90	6516	389.80	1249	438.45	2249		
352.90	1779	401.05	745	440.85	87920		
353.80	4992	401.75	2262	441.85	527552		
355.00	801	402.85	4174	442.85	105536		
364.80	12978	403.85	1493	443.85	9327		
365.90	1822	420.85	2807	444.95	923		
370.90	897	421.95	3672				
371.90	7318	422.85	26192				
372.80	1608	423.85	5991				
382.80	2007	436.55	687				
384.00	802	437.55	859				

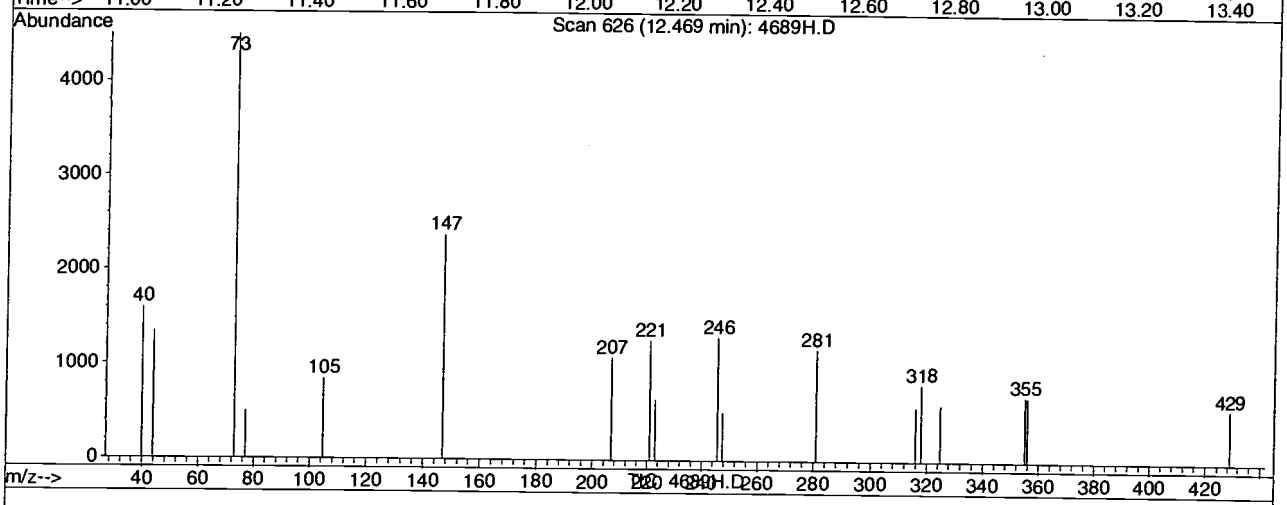
Quantitation Report

Data File : G:\H060701\4689H.D
Acq On : 7 Jun 01 3:09 pm
Sample : DFTPP
Misc :
Quant Time: Jun 7 15:33 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(2) p,p'-DDE (M)

12.47min 0.01ug/ml

response 1492

Ion	Exp%	Act%
246.00	100	100
318.00	64.70	91.02#
248.00	61.60	0.00#
316.00	51.20	57.04

4689H.D DFTPPI.M Mon Jun 11 12:48:47 2001

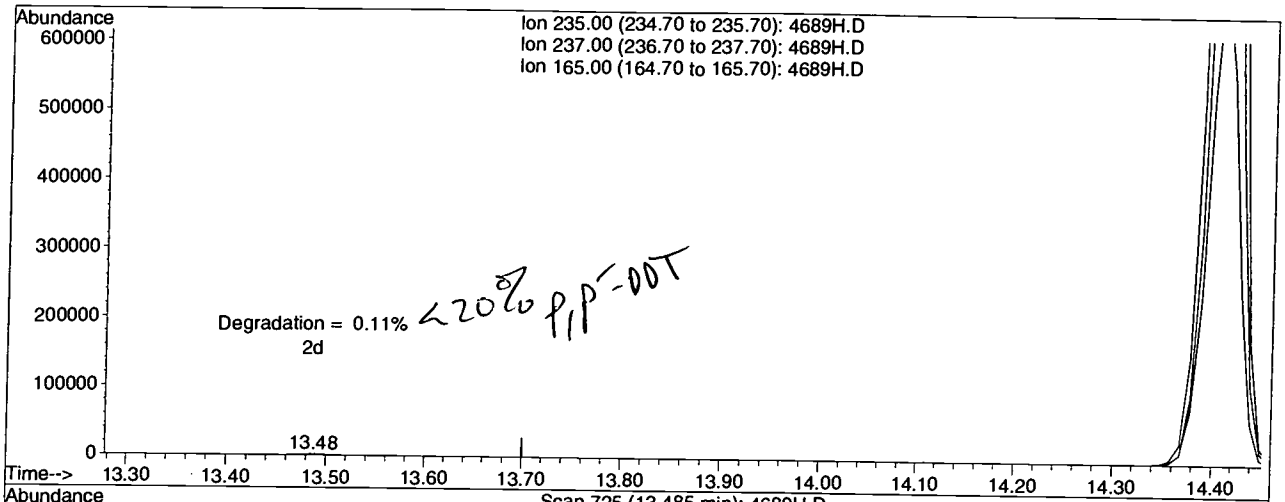
JAS 6-13-1

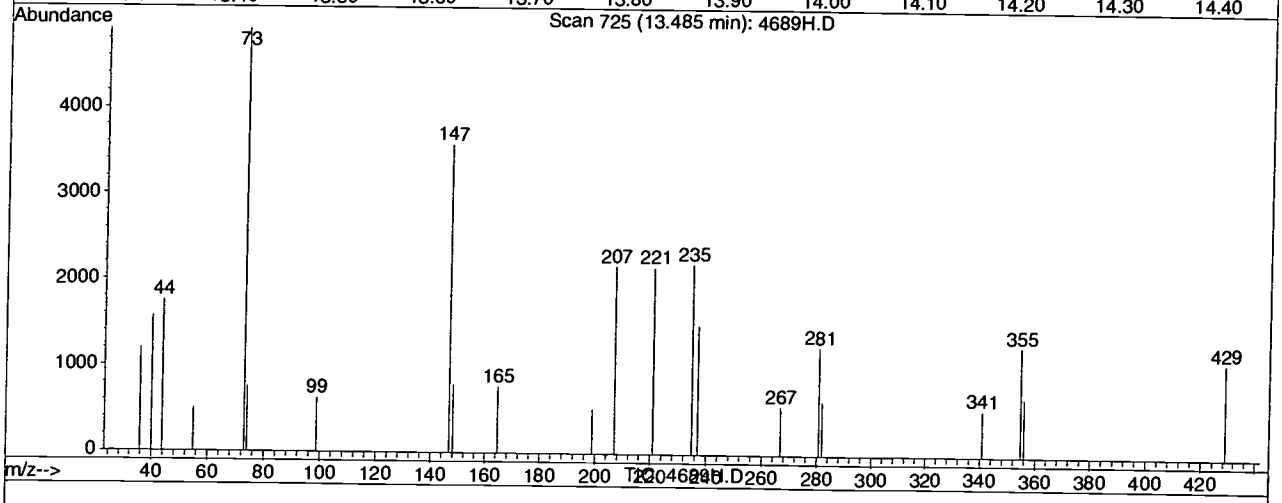
Quantitation Report

Data File : G:\H060701\4689H.D
Acq On : 7 Jun 01 3:09 pm
Sample : DFTPP
Misc :
Quant Time: Jun 11 12:49 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(4) p,p'-DDD (M)

13.48min 0.02ug/ml m

response 4999

Ion	Exp%	Act%
235.00	100	100
237.00	66.60	1867.59#
165.00	48.60	544.17#
0.00	0.00	0.00

4689H.D DFTPPI.M Mon Jun 11 12:50:00 2001

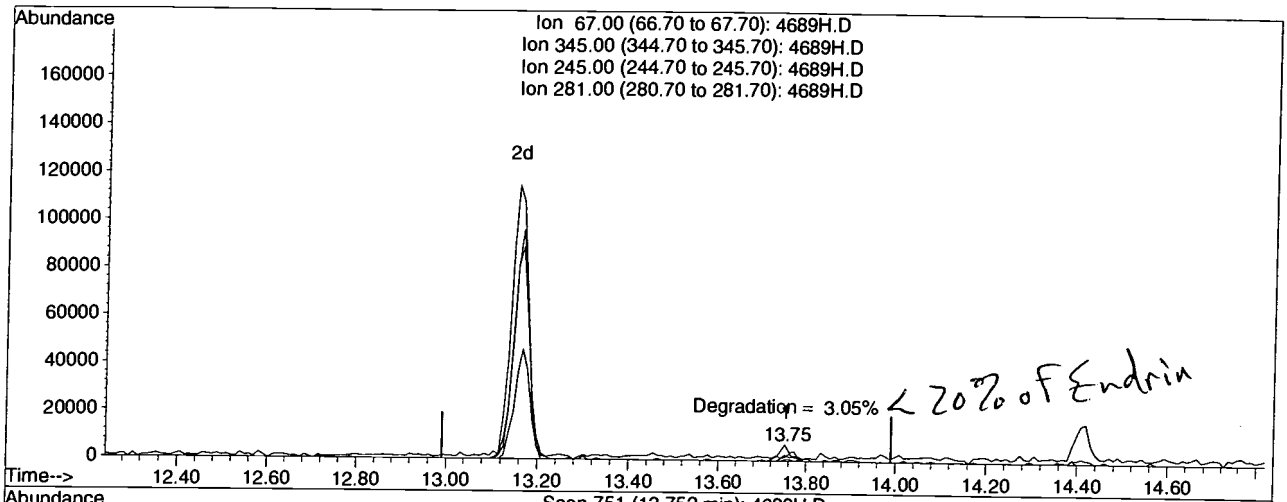
✓ LAS 6.13.1

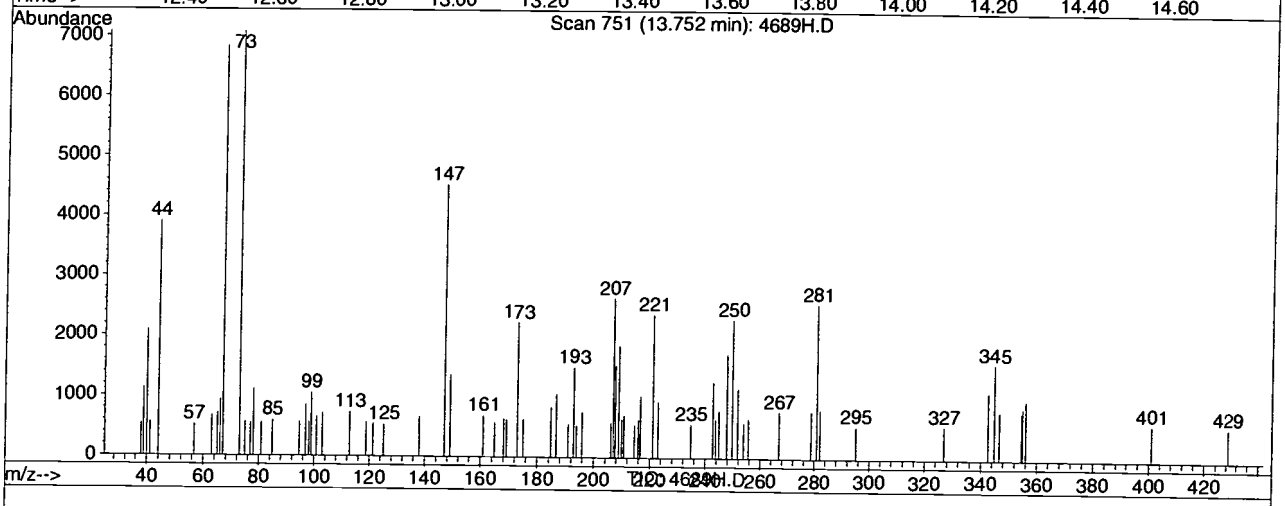
Quantitation Report

Data File : G:\H060701\4689H.D
Acq On : 7 Jun 01 3:09 pm
Sample : DFTPP
Misc :
Quant Time: Jun 11 12:49 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\1\METHODS\DFTPPI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Thu Sep 09 09:58:47 1999
Response via : Multiple Level Calibration





(5) Endrin aldehyde (M)

13.75min 0.40ug/ml

response 15200

Ion	Exp%	Act%
67.00	100	100
345.00	63.90	33.91#
245.00	49.00	0.00#
281.00	46.90	0.00#

4689H.D DFTPPI.M Mon Jun 11 12:50:20 2001

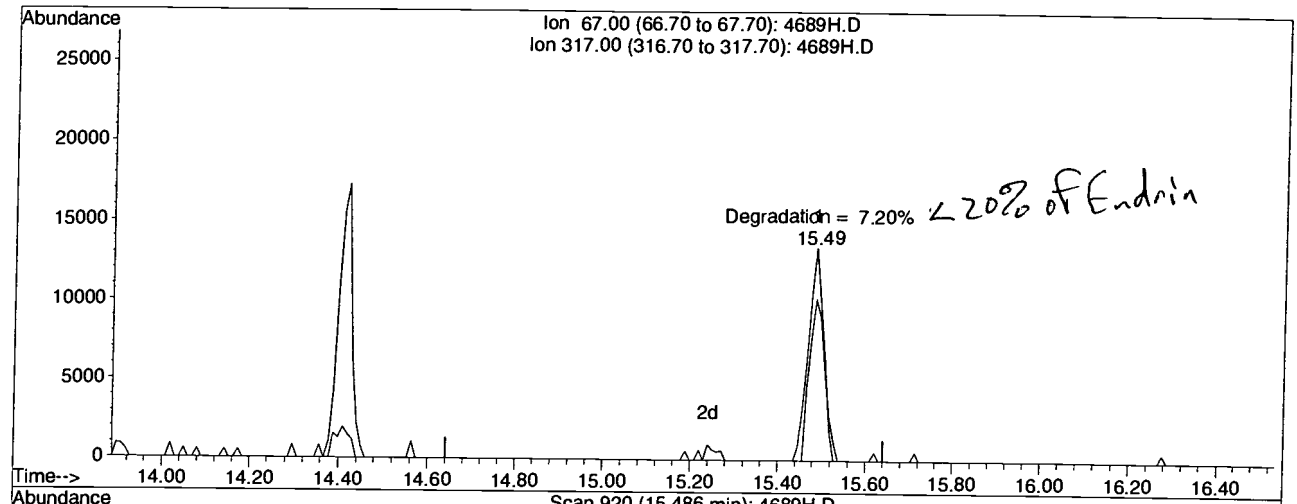
✓ LAS 6-18-1

Quantitation Report

Data File : G:\H060701\4689H.D
Acq On : 7 Jun 01 3:09 pm
Sample : DFTPP
Misc :
Quant Time: Jun 11 12:49 2001

Vial: 1
Operator: JCM II
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: temp.res

Method : G:\HPCHEM\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

(7) Endrin Ketone

15.49min 0.00ug/ml

response 32475

Ion	Exp%	Act%
67.00	100	100
317.00	71.10	77.83
0.00	0.00	0.00
0.00	0.00	0.00

4689H.D DFTPPI.M Mon Jun 11 12:50:36 2001

6-15-1

Continuing Calibration Report

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Multiple Level Calibration

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

*: SSTD ≤ 10% of Total Targ
> 30% Dev.

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

cal 2 = 4682H.D cal 0 = 4676H.D cal 1 = 4677H.D
cal 1 = 4678H.D cal 5 = 4679H.D

		Compound	AvgRF	CCRF	%Dev
1	I	ACENAPHTHENE-D10	1.00000	1.00000	0.0
2	M	Isophorone	0.99281	1.02124	2.9
3	S	1,3-dimethyl-2-nitrobenzene	0.25071	0.25761 calc	2.8
4	M	Dichlorvos	0.69516	0.54220	22.0
5	M	Hexachlorocyclopentadiene	0.20812	0.24063	15.6
6	M	EPTC	0.47791	0.49060	2.7
7	M	Mevinphos	0.78312	0.52311	33.2#
8	M	Butylate	0.40087	0.40514	1.1
9	M	Vernolate	0.55046	0.57624	4.7
10	m	Terrazole	0.18280	0.16877	7.7
11	M	Dimethylphthalate	1.30961	1.25820	3.9
12	M	Pebulate	0.55502	0.57213	3.1
13	M	2,6-Dinitrotoluene	0.14549	0.10242	29.6
14	M	Acenaphthylene	1.62101	1.53908	5.1
15	M	Chloroneb	0.50507	0.48764	3.5
16	M	2-Chlorobiphenyl	1.04438	1.00094	4.2
17	M	Pentachlorobenzene	0.33821	0.33518	0.9
18	M	Tebuthiuron	0.15901	0.05736	63.9#
19	M	2,4-Dinitrotoluene	0.11493	0.07737	32.7#
20	M	Molinate	0.67742	0.73252	8.1
21	M	Diethylphthalate	1.25055	1.14341	8.6
22	M	Fluorene	1.11595	1.07414	3.7
23	M	Propachlor	0.61471	0.56616	7.9
24	M	Ethoprop	0.32101	0.24708	23.0
25	M	Cycloate	0.57553	0.57820	0.5
26	M	Chlorpropham	0.32865	0.27354	16.8
27	M	Trifluralin	0.27259	0.17313	36.5#
28	M	alpha-BHC	0.22197	0.21873	1.5
29	M	2,3-Dichlorobiphenyl	0.67541	0.61668	8.7
30	I	PHENANTHRENE-D10	1.00000	1.00000	0.0
31	M	Hexachlorobenzene	0.44805	0.44174	1.4
32	M	Atraton	0.22013	0.17350	21.2
33	M	Prometon	0.26319	0.23894	9.2
34	M	Simazine	0.15711	0.15940	1.5
35	M	Atrazine	0.27019	0.26119	3.3
36	M	beta-BHC	0.14493	0.14377	0.8
37	M	Propazine	0.29383	0.29474	0.3
38	M	Pentachlorophenol	0.05054	0.07510	48.6#
39	M	g-BHC (Lindane)	0.17071	0.18958	11.1
40	M	Terbufos	0.35020	0.33017	5.7
41	M	Pronamide	0.39324	0.38000	3.4
42	M	Diazinon	0.26816	0.28001	4.4
43	M	Phenanthrene	1.20179	1.18169	1.7
44	M	Chlorothalonil	0.24809	0.28545	15.1
45	M	Disulfoton	0.49514	0.53659	8.4
46	M	Anthracene	1.01843	1.04170	2.3
47	m	Methyl paraoxon	0.09214	0.06462	29.9
48	M	Terbacil	0.20520	0.17928	12.6
49	M	delta-BHC	0.11365	0.13447	18.3
50	M	Trichlorobiphenyl	0.43024	0.43559	1.2
51	M	Acetochlor	0.16071	0.14874	7.4

(#) = Out of Range
4690H.D DRINKWI.M Fri Jun 08 13:08:04 2001

Continuing Calibration Report

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 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 = 4682H.D cal 0 = 4676H.D cal 1 = 4677H.D
cal 1 = 4678H.D cal 5 = 4679H.D

		Compound	AvgRF	CCRF	%Dev
52	M	Metribuzin	0.17434	0.14105	19.1
53	M	Alachlor	0.22668	0.22395	1.2
54	M	Simetryn	0.31315	0.30231	3.5
55	M	Ametryn	0.28905	0.27178	6.0
56	M	Heptachlor	0.20279	0.21675	6.9
57	M	Prometryn	0.34863	0.33757	3.2
58	M	Terbutryn	0.27576	0.26034	5.6
59	M	Di-n-butyl phthalate	1.55237	1.55219	0.0
60	M	Bromacil	0.12590	0.08130	35.4#
61	M	Tetrachlorobiphenyl	0.28115	0.29946	6.5
62	M	Aldrin	0.15710	0.17041	8.5
63	M	Metolachlor	0.68361	0.65196	4.6
64	M	Chlorpyrifos	0.09089	0.08911	2.0
65	M	DCPA	0.29001	0.28519	1.7
66	M	Cyanazine	0.01216	0.01647	35.4#
67	M	Triadimefon	0.24065	0.24155	0.4
68	M	Diphenamid	0.45803	0.50801	10.9
69	M	MGK 264-A	0.18023	0.20153	11.8
70	M	Pendimethalin	0.13905	0.07332	47.3#
71	M	MGK 264-B	0.22751	0.22523	1.0
72	M	Heptachlor epoxide	0.11103	0.12282	10.6
73	M	Pentachlorobiphenyl	0.20517	0.21054	2.6
74	M	g-Chlordane	0.12928	0.14244	10.2
75	M	Stirofos	0.19469	0.21006	7.9
76	M	Butachlor	0.21675	0.19654	9.3
77	M	a-Chlordane	0.13256	0.14911	12.5
78	M	Endosulfan I	0.06353	0.06901	8.6
79	M	trans-Nonachlor	0.12859	0.14192	10.4
80	M	Fenamiphos	0.07407	0.04279	42.2#
81	M	Napropamide	0.32756	0.38944	18.9
82	M	Tricyclazole	0.04134	0.01729	58.2#
83	M	p,p'-DDE	0.21033	0.24507	16.5
84	M	Hexachlorobiphenyl	0.16829	0.18619	10.6
85	I	CHRYSENE-D12	1.00000	1.00000	0.0
86	M	Pyrene	2.25843	2.08669	7.6
87	M	Dieldrin	0.48558	0.42493	12.5
88	M	Carboxin	0.54804	0.46453	15.2
89	M	Endrin	0.09860	0.08717	11.6
90	M	Chlorobenzilate	0.45446	0.23904	47.4#
91	M	Endosulfan II	0.08160	0.07542	7.6
92	M	p,p'-DDD	0.76878	0.67894	11.7
93	M	Endrin aldehyde	0.14427	0.13241	8.2
94	M	Norflurazon	0.16764	0.13955	16.8
95	M	Butylbenzylphthalate	0.82209	0.72657	11.6
96	M	Endosulfan sulfate	0.09399	0.10255	9.1
97	M	p,p'-DDT	0.52174	0.46412	11.0
98	M	Hexazinone	0.45753	0.43981	3.9
99	M	Di(2-ethylhexyl)adipate	0.74779	0.62605	16.3
100	S	Triphenylphosphate	0.31939	0.28167	11.8
101	M	Heptachlorobiphenyl	0.17870	0.16241	9.1
102	M	Benz(a)anthracene	1.38256	1.29028	6.7
103	M	Octachlorobiphenyl	0.21568	0.19942	7.5

(#) = Out of Range

Continuing Calibration Report

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 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 = 4682H.D cal 0 = 4676H.D cal 1 = 4677H.D
cal 1 = 4678H.D cal 5 = 4679H.D

		Compound	AvgRF	CCRF	%Dev
104	M	Methoxychlor	0.80563	0.65279	19.0
105	M	Chrysene	1.21760	1.20278	1.2
106	M	bis(2-Ethylhexyl)phthalate	1.06218	0.84302	20.6
107	M	Fenarimol	0.12165	0.08859	27.2
108	M	cis-Permethrin	1.07678	1.03773	3.6
109	M	trans-Permethrin	1.07472	0.85294	20.6
110	M	Benzo(b)fluoranthene	0.85400	0.81158	5.0
111	M	Benzo(k)fluoranthene	0.86702	0.86148	0.6
~~112~~	~~M~~	~~Benzo(a)pyrene~~	~~0.65033~~	~~0.60425~~	~~7.1~~
113	M	Fluridone	0.12854	0.06758	47.4#
114	S	Perylene-d12	0.67628	0.64122	5.2
115	M	Indeno(1,2,3-cd)pyrene	0.51483	0.40640	21.1
116	M	Dibenz(a,h)anthracene	0.42036	0.31059	26.1
117	M	Benzo(g,h,i)perylene	0.50763	0.37305	26.5
118	I	p-Terphenyl-d14	1.00000	1.00000	0.0

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4690H.D DRINKWI.M Fri Jun 08 13:08:10 2001

Continuing Calibration Report

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Method : G:\HPCHEM\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 = 4682H.D cal 0 = 4681H.D cal 1 = 4677H.D
cal 1 = 4678H.D cal 5 = 4679H.D

		Compound	AvgRF	CCRF	%Dev
104	M	Methoxychlor	0.76006	0.65279	14.1
105	M	Chrysene	1.32581	1.20278	9.3
106	M	bis(2-Ethylhexyl)phthalate	1.15657	0.84302	27.1
107	M	Fenarimol	0.14868	0.08859	40.4#
108	M	cis-Permethrin	0.95304	1.03773	8.9
109	M	trans-Permethrin	0.90006	0.85294	5.2
110	M	Benzo(b)fluoranthene	0.80268	0.81158	1.1
111	M	Benzo(k)fluoranthene	0.80938	0.86148	6.4
112	M	Benzo(a)pyrene	0.64604	0.60425	6.5
113	M	Fluridone	0.12748	0.06758	47.0#
114	S	Perylene-d12	0.72132	0.64122	11.1
115	M	Indeno(1,2,3-cd)pyrene	0.41704	0.40640	2.6
116	M	Dibenz(a,h)anthracene	0.36738	0.31059	15.5
117	M	Benzo(g,h,i)perylene	0.50947	0.37305	26.8
118	I	p-Terphenyl-d14	1.00000	1.00000	0.0

Only

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Jun 7 17:12 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.66	164	1402884m	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1369914	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.06	240	735040	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	1127093	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	144556	2.05 ug/ml	0.00
100) Triphenylphosphate	28.26	326	82815	1.76 ug/ml	0.00
114) Perylene-d12	32.73	264	188529	1.90 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.14	82	573072	2.06 ug/ml#	92
4) Dichlorvos	15.77	109	304260	1.56 ug/ml#	81
5) Hexachlorocyclopentadiene	16.87	237	135029	2.31 ug/ml#	74
6) EPTC	17.15	128	275302	2.05 ug/ml#	27
7) Mevinphos	17.89	127	293543m	1.34 ug/ml	64
8) Butylate	17.95	146	227347	2.02 ug/ml#	23
9) Vernolate	18.16	128	323361	2.09 ug/ml#	50
10) Terrazole	18.21	211	94705	1.85 ug/ml	93
11) Dimethylphthalate	18.18	163	706041	1.92 ug/ml	100
12) Pebulate	18.31	128	321051	2.06 ug/ml#	34
13) 2,6-Dinitrotoluene	18.28	165	57476	1.41 ug/ml	72
14) Acenaphthylene	18.36	152	863661	1.90 ug/ml	100
15) Chloroneb	18.81	191	273642	1.93 ug/ml	97
16) 2-Chlorobiphenyl	18.83	188	561683	1.92 ug/ml	100
17) Pentachlorobenzene	19.01	248	188087	1.98 ug/ml#	42
18) Tebuthiuron	19.00	156	32188	0.72 ug/ml#	85
19) 2,4-Dinitrotoluene	19.12	165	43419	1.35 ug/ml	67
20) Molinate	19.26	126	411058	2.16 ug/ml#	84
21) Diethylphthalate	19.71	149	641626	1.83 ug/ml	100
22) Fluorene	19.85	166	602755	1.93 ug/ml	94
23) Propachlor	19.93	120	317701	1.84 ug/ml#	3
24) Ethoprop	20.24	158	138649	1.54 ug/ml#	54
25) Cycloate	20.28	154	324458	2.01 ug/ml#	22
26) Chlorpropham	20.46	127	153498	1.66 ug/ml#	67
27) Trifluralin	20.49	306	97155	1.27 ug/ml	98
28) alpha-BHC	21.03	181	122743	1.97 ug/ml#	79
29) 2,3-Dichlorobiphenyl	21.06	222	346052	1.83 ug/ml	91
31) Hexachlorobenzene	21.11	284	242060	1.97 ug/ml#	91
32) Atraton	21.26	196	95074	1.58 ug/ml#	74
33) Prometon	21.37	210	130931	1.82 ug/ml#	75
34) Simazine	21.40	201	87348	2.03 ug/ml#	87
35) Atrazine	21.49	200	286244	3.87 ug/ml	100
36) beta-BHC	21.54	183	78782m	1.98 ug/ml	89
37) Propazine	21.56	214	161507	2.01 ug/ml#	78
38) Pentachlorophenol	21.60	266	164610	11.89 ug/ml	95
39) g-BHC (Lindane)	21.74	181	103882m	2.22 ug/ml	91
40) Terbufos	21.80	231	180924	1.89 ug/ml#	1
41) Pronamide	21.86	173	208228	1.93 ug/ml#	92
42) Diazinon	21.89	137	153437	2.09 ug/ml	88
43) Phenanthrene	22.09	178	647524	1.97 ug/ml	99
44) Chlorothalonil	22.06	266	156417	2.30 ug/ml#	85
45) Disulfoton	22.16	88	294033	2.17 ug/ml#	44
46) Anthracene	22.23	178	570815	2.05 ug/ml	98
47) Methyl paraoxon	22.17	109	35409	1.40 ug/ml#	54

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Jun 7 17:12 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.17	161	98237	1.75 ug/ml#	80
49) delta-BHC	22.32	181	73687	2.37 ug/ml#	69
50) Trichlorobiphenyl	22.65	256	238690	2.02 ug/ml	100
51) Acetochlor	22.91	146	81507	1.85 ug/ml#	71
52) Metribuzin	22.95	198	77290	1.62 ug/ml	100
53) Alachlor	23.10	160	245435	3.95 ug/ml	99
54) Simetryn	23.18	213	165653	1.93 ug/ml	93
55) Ametryn	23.26	227	148928	1.88 ug/ml#	79
56) Heptachlor	23.33	100	118772	2.14 ug/ml#	54
57) Prometryn	23.31	241	184979	1.94 ug/ml	93
58) Terbutryn	23.60	226	142655	1.89 ug/ml#	82
59) Di-n-butyl phthalate	23.72	149	850546	2.00 ug/ml	98
60) Bromacil	23.66	205	44547	1.29 ug/ml#	69
61) Tetrachlorobiphenyl	23.87	292	164096	2.13 ug/ml	100
62) Aldrin	24.11	66	93381	2.17 ug/ml#	81
63) Metolachlor	23.93	162	357254	1.91 ug/ml#	79
64) Chlorpyrifos	23.96	314	48827	1.96 ug/ml#	3
65) DCPA	24.07	301	156273	1.97 ug/ml#	81
66) Cyanazine	24.06	212	9026m	2.71 ug/ml	44
67) Triadimefon	24.21	57	132362	2.01 ug/ml#	61
68) Diphenamid	24.46	167	278374	2.22 ug/ml#	64
69) MGK 264-A	24.49	111	55216	1.12 ug/ml#	46
70) Pendimethalin	24.68	252	40175	1.05 ug/ml#	65
71) MGK 264-B	24.76	164	61709	0.99 ug/ml#	81
72) Heptachlor epoxide	24.95	81	67299	2.21 ug/ml#	78
73) Pentachlorobiphenyl	24.99	326	115370	2.05 ug/ml	100
74) g-Chlordane	25.47	375	78053	2.20 ug/ml	100
75) Stirofos	25.47	109	115107	2.16 ug/ml	99
76) Butachlor	25.53	176	107697	1.81 ug/ml	100
77) a-Chlordane	25.75	373	81705	2.25 ug/ml#	81
78) Endosulfan I	25.76	195	37815	2.17 ug/ml#	85
79) trans-Nonachlor	25.80	409	77766	2.21 ug/ml#	58
80) Fenamiphos	25.79	303	23449m	1.16 ug/ml	78
81) Napropamide	25.86	72	213397	2.38 ug/ml#	73
82) Tricyclazole	26.13	189	9474m	0.84 ug/ml	41
83) p,p'-DDE	26.18	246	134292	2.33 ug/ml	96
84) Hexachlorobiphenyl	26.31	360	102027	2.21 ug/ml#	81
86) Pyrene	25.74	202	613519	1.85 ug/ml	98
87) Dieldrin	26.35	79	124937	1.75 ug/ml#	70
88) Carboxin	26.37	143	136578	1.70 ug/ml#	68
89) Endrin	26.81	81	25628	1.77 ug/ml#	13
90) Chlorobenzilate	26.88	139	70281	1.05 ug/ml#	77
91) Endosulfan II	27.04	195	22176	1.85 ug/ml	90
92) p,p'-DDD	27.08	235	199619	1.77 ug/ml	96
93) Endrin aldehyde	27.34	67	38930	1.84 ug/ml#	59
94) Norflurazon	27.66	145	41029	1.66 ug/ml#	86
95) Butylbenzylphthalate	27.74	149	213622	1.77 ug/ml#	88
96) Endosulfan sulfate	27.85	272	30151	2.18 ug/ml#	51
97) p,p'-DDT	27.90	235	136458	1.78 ug/ml#	82
98) Hexazinone	27.98	171	129311	1.92 ug/ml#	93
99) Di(2-ethylhexyl)adipate	28.09	129	184068	1.67 ug/ml#	64
101) Heptachlorobiphenyl	28.94	394	47752	1.82 ug/ml#	1
102) Benz(a)anthracene	29.04	228	379363	1.87 ug/ml#	89
103) Octachlorobiphenyl	29.05	430	58634	1.85 ug/ml	87
104) Methoxychlor	29.05	227	191932	1.62 ug/ml#	53

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Jun 7 17:12 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) Chrysene	29.13	228	353636	1.98 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.43	149	247862	1.59 ug/ml#	91
107) Fenarimol	30.31	139	26047m	1.46 ug/ml	85
108) cis-Permethrin	30.94	183	262393	1.66 ug/ml#	63
109) trans-Permethrin	31.10	183	35109	0.22 ug/ml#	82
110) Benzo(b)fluoranthene	31.83	252	238617	1.90 ug/ml#	88
111) Benzo(k)fluoranthene	31.89	252	253289	1.99 ug/ml#	93
112) Benzo(a)pyrene	32.60	252	177658	1.86 ug/ml	100
113) Fluridone	32.58	328	19869m	1.05 ug/ml	81
115) Indeno(1,2,3-cd)pyrene	35.44	276	119489m	1.58 ug/ml	79
116) Dibenz(a,h)anthracene	35.52	278	91317m	1.48 ug/ml	68
117) Benzo(g,h,i)perylene	36.19	276	109682	1.47 ug/ml#	54

(#) = qualifier out of range (m) = manual integration

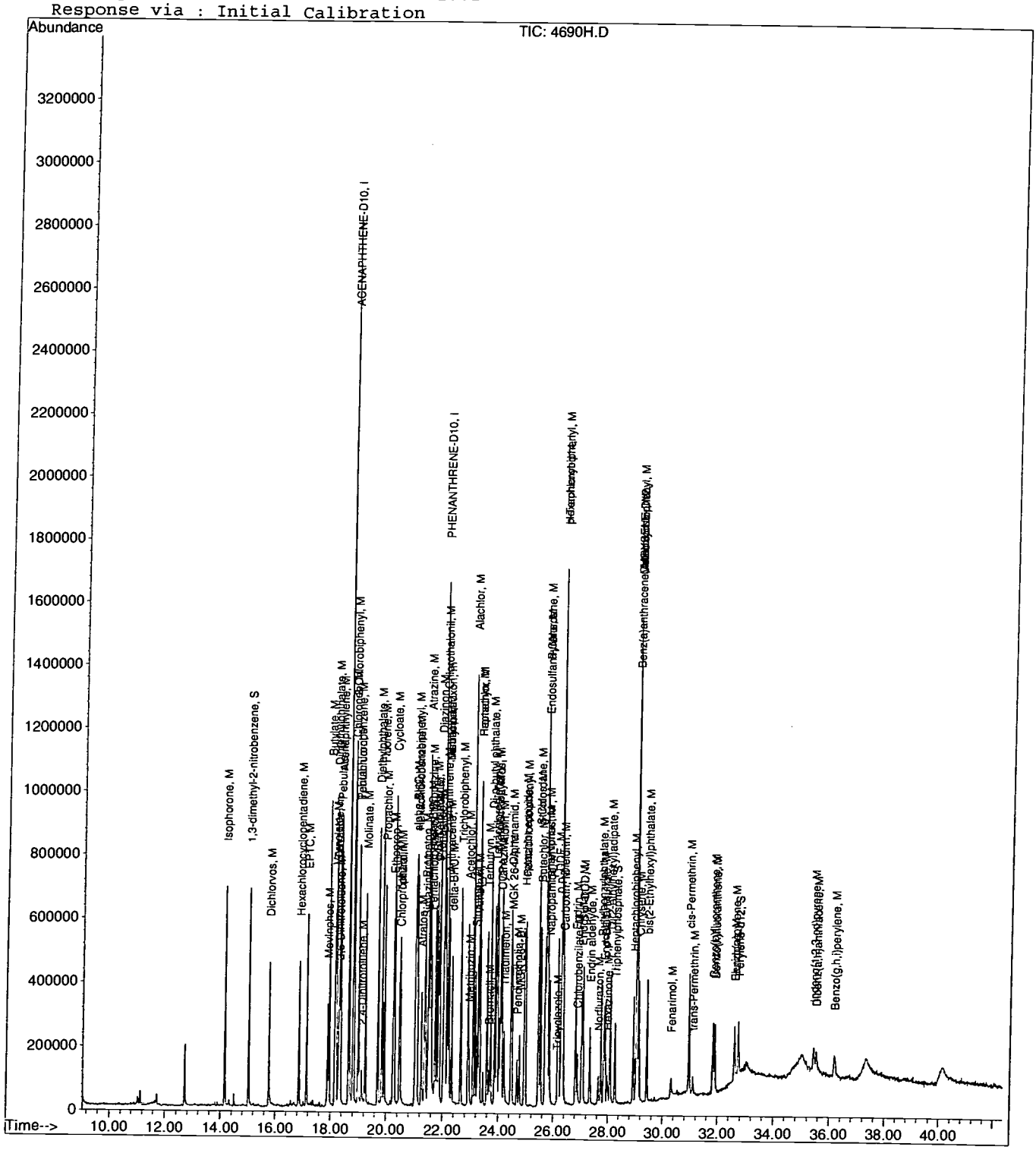
Quantitation Report

Data File : G:\H060701\4690H.D
Acq On : 7 Jun 01 4:10 pm
Sample : SSTD 2.0
Misc : CC SSTD
MS Integration Params: rteint.p
Quant Time: Jun 7 17:12 2001

Vial: 1
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



QC Report

QC Type	BLA02	Duplicate Sample ID		Data File	4691H.D
Date Entered	06Jun2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	07Jun2001 17:19:00	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		

QC Report

QC Type BLA02 Duplicate Sample ID Data File 4691H.D
Date Entered 06Jun2001 Duplicate QCSampleID Analyst 2447 J. MINNIEAR, II
Analysis Date/Time 07Jun2001 17:19:00 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			0.13			
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			0.16			
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	Duplicate Sample ID		Data File	4691H.D
Date Entered	06Jun2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	07Jun2001 17:19:00	Method	0	Matrix 1	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					107	
2894	TRIPHENYL ESTER PHOSPHORIC ACID					56	
3474	PERYLENE-D12					76	
1285	DODECANE			0.69	J		
758	UNKNOWN			4.9	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.

SBLK2241-623

Lab Name: HERITAGE Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: SBLK2241-623

Sample wt/vol: 1000 (g/ml) ML Lab File ID: 4691H.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/07/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000112-40-3	Dodecane	15.22	0.69	JN
2.	unknown	25.70	~~5~~ 4.9	J

Quantitation Report (Not Reviewed)

Data File : G:\H060701\4691H.D
Acq On : 7 Jun 01 5:19 pm
Sample : SBLK2241-623
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 10:41 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.65	164	522949	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	670078	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.07	240	337863	5.00 ug/ml	0.01
118) p-Terphenyl-d14	26.30	244	541630	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	140694	5.37 ug/ml	0.00
100) Triphenylphosphate	28.26	326	60262	2.79 ug/ml	0.00
114) Perylene-d12	32.73	264	173196	3.79 ug/ml	0.00
Target Compounds					Qvalue
13) 2,6-Dinitrotoluene	18.65	165	69737	4.58 ug/ml#	35
18) Tebuthiuron	18.65	156	25207	1.52 ug/ml#	64
19) 2,4-Dinitrotoluene	18.65	165	61241	5.09 ug/ml#	40
36) beta-BHC	22.04	183	13217	0.68 ug/ml#	18
59) Di-n-butyl phthalate	23.72	149	28027	0.13 ug/ml#	94
83) p,p'-DDE	26.30	246	10805	0.38 ug/ml#	21
106) bis(2-Ethylhexyl)phthalate	29.42	149	11198	0.16 ug/ml#	95

(#) = qualifier out of range (m) = manual integration
4691H.D DRINKWI.M Fri Jun 08 10:41:47 2001

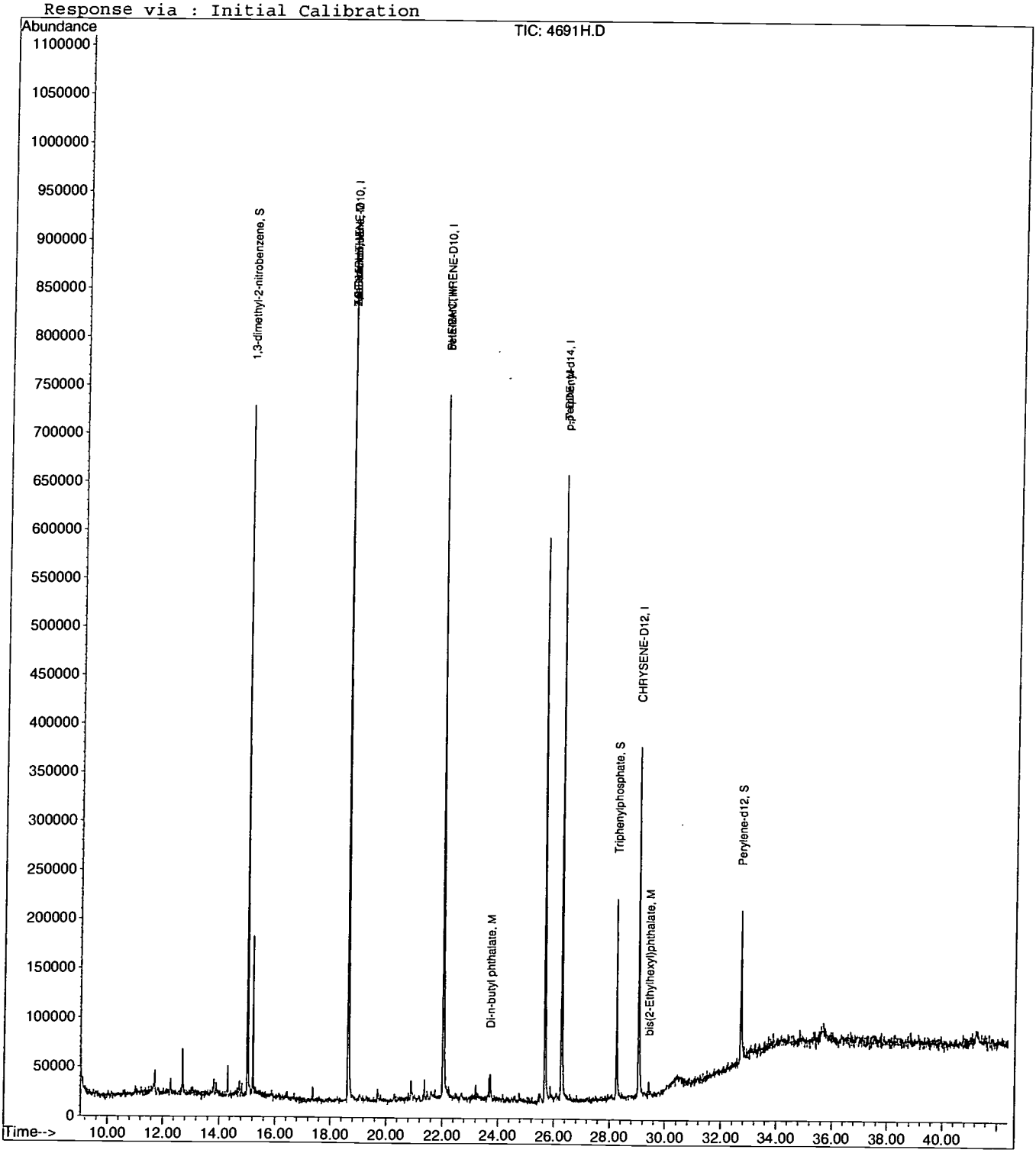
Quantitation Report

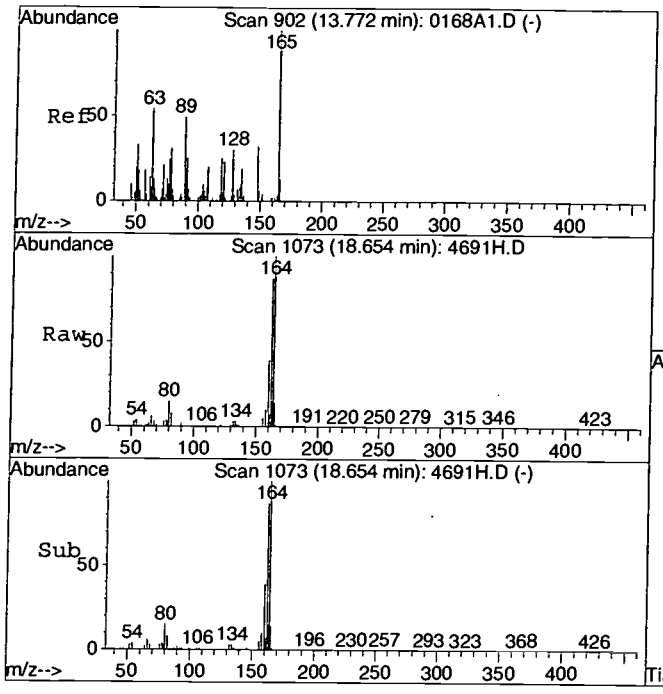
Data File : G:\H060701\4691H.D
Acq On : 7 Jun 01 5:19 pm
Sample : SBLK2241-623
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 10:41 2001

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration

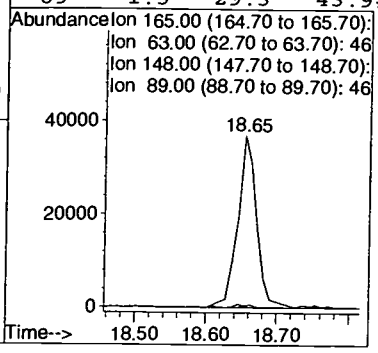




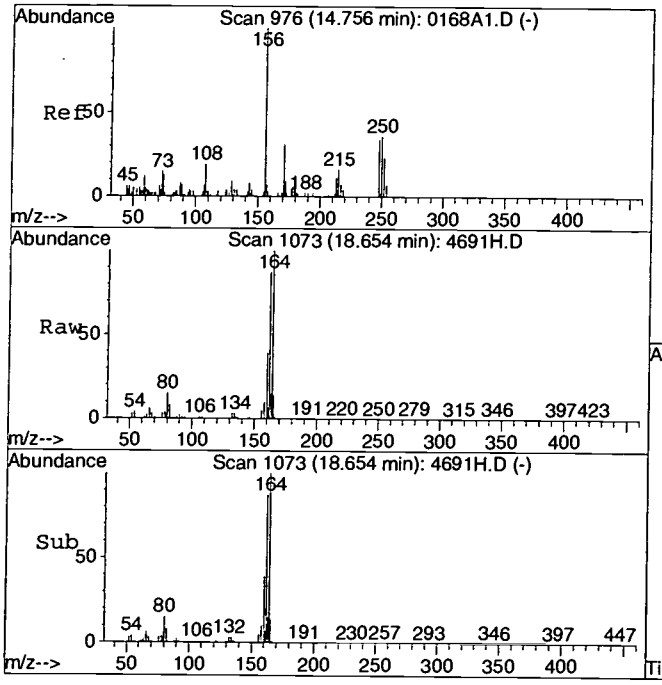
#13
2,6-Dinitrotoluene
Concen: 4.58 ug/ml
RT: 18.65 min Scan# 1073
Delta R.T. 0.37 min
Lab File: 4691H.D
Acq: 7 Jun 01 5:19 pm

Tgt Ion:165 Resp: 69737

Ion	Ratio	Lower	Upper
165	100		
63	1.1	40.7	61.1#
148	0.1	29.4	44.2#
89	1.3	29.3	43.9#



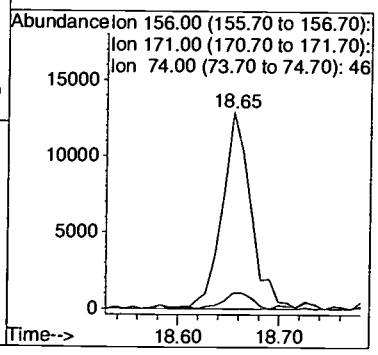
Baddit Jun



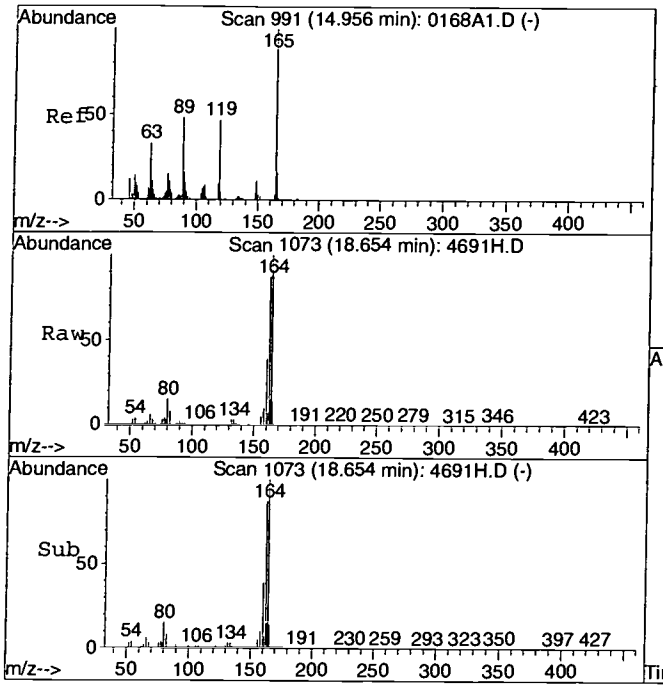
#18
Tebuthiuron
Concen: 1.52 ug/ml
RT: 18.65 min Scan# 1073
Delta R.T. -0.33 min
Lab File: 4691H.D
Acq: 7 Jun 01 5:19 pm

Tgt Ion:156 Resp: 25207

Ion	Ratio	Lower	Upper
156	100		
171	0.0	19.0	28.6#
74	8.1	12.2	18.2#



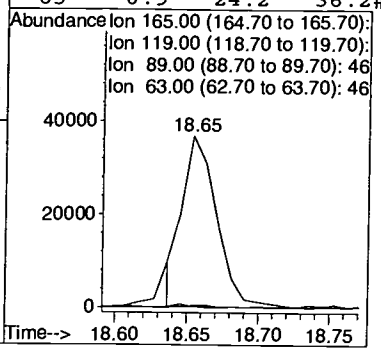
Baddit Jun



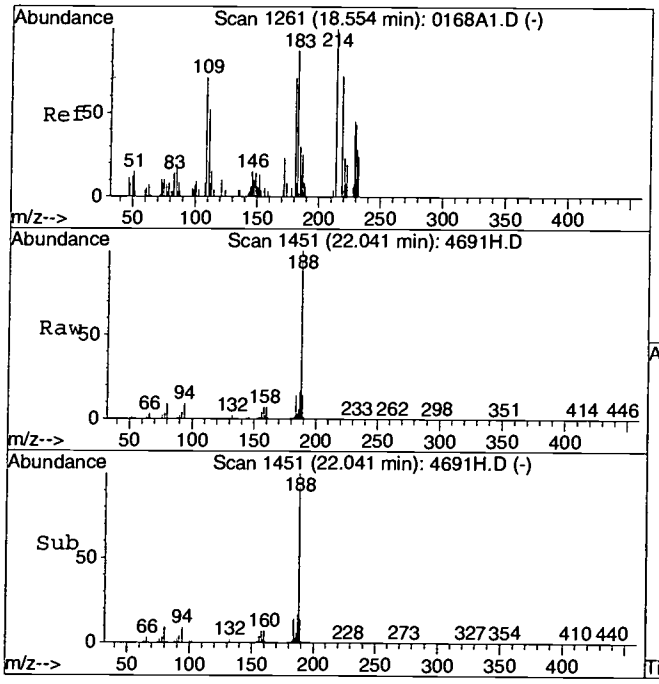
#19
2,4-Dinitrotoluene
Concen: 5.09 ug/ml
RT: 18.65 min Scan# 1073
Delta R.T. -0.46 min
Lab File: 4691H.D
Acq: 7 Jun 01 5:19 pm

Tgt Ion:165 Resp: 61241

Ion	Ratio	Lower	Upper
165	100		
119	1.5	36.4	54.6#
89	1.4	27.4	41.2#
63	0.9	24.2	36.2#



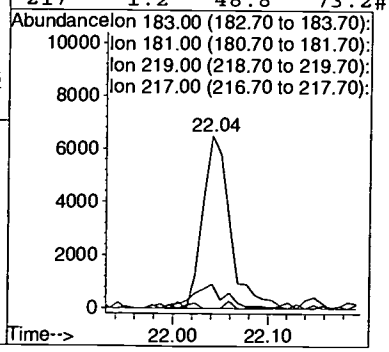
Badhit
Jcm



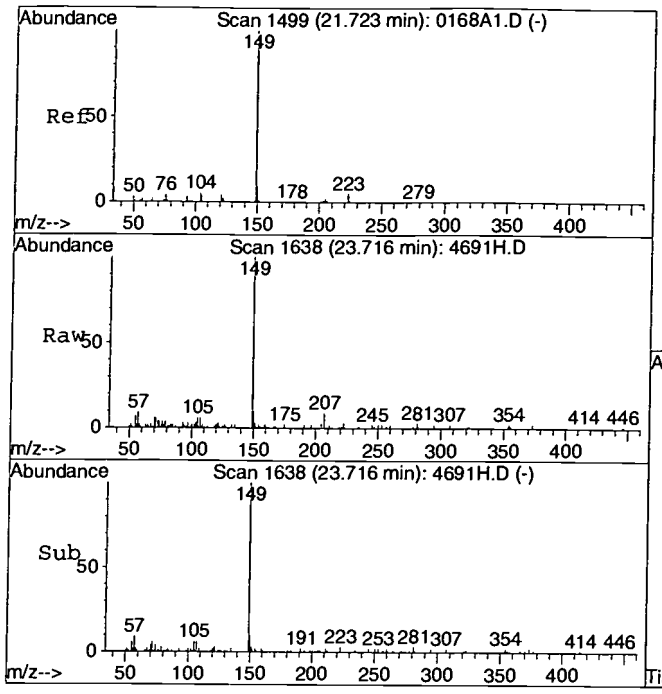
#36
beta-BHC
Concen: 0.68 ug/ml
RT: 22.04 min Scan# 1451
Delta R.T. 0.31 min
Lab File: 4691H.D
Acq: 7 Jun 01 5:19 pm

Tgt Ion:183 Resp: 13217

Ion	Ratio	Lower	Upper
183	100		
181	17.3	74.1	111.1#
219	0.0	59.4	89.2#
217	1.2	48.8	73.2#



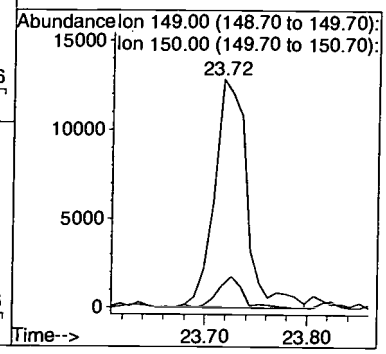
Badhit
Jcm

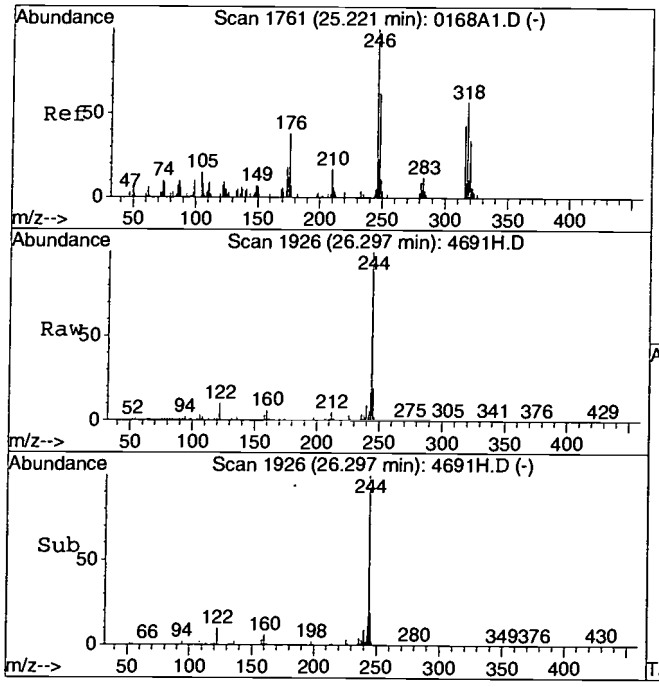


#59
Di-n-butyl phthalate
Concen: 0.13 ug/ml
RT: 23.72 min Scan# 1638
Delta R.T. 0.00 min
Lab File: 4691H.D
Acq: 7 Jun 01 5:19 pm

Tgt Ion:149 Resp: 28027

Ion	Ratio	Lower	Upper
149	100		
150	10.9	7.0	10.6#

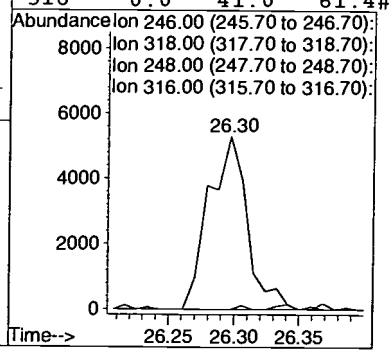


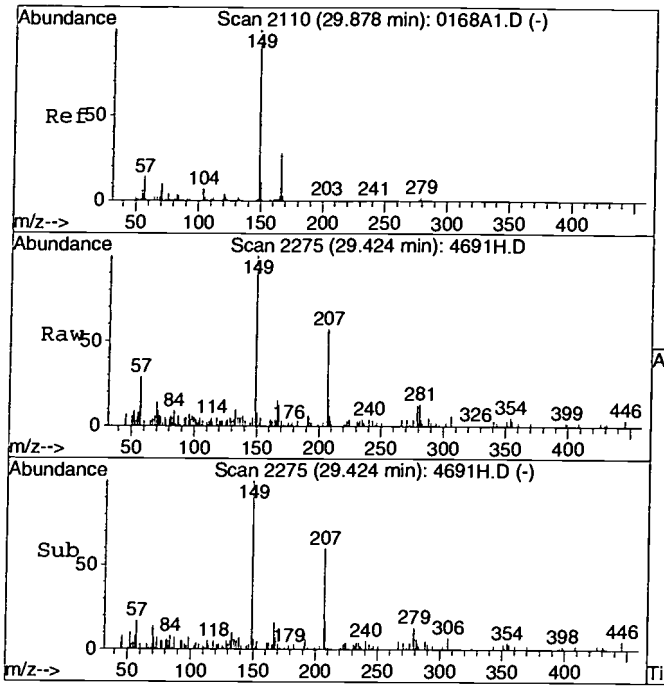


#83
p,p'-DDE
Concen: 0.38 ug/ml
RT: 26.30 min Scan# 1926
Delta R.T. 0.13 min
Lab File: 4691H.D
Acq: 7 Jun 01 5:19 pm

Tgt Ion:246 Resp: 10805

Ion	Ratio	Lower	Upper
246	100		
318	0.0	51.8	77.6#
248	0.6	49.3	73.9#
316	0.0	41.0	61.4#

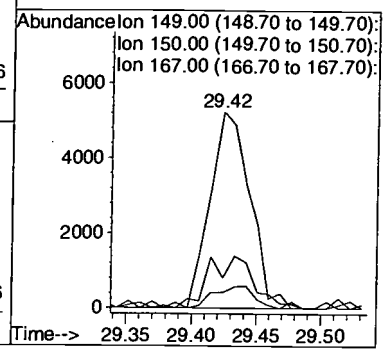




#106
bis(2-Ethylhexyl)phthalate
Concen: 0.16 ug/ml
RT: 29.42 min Scan# 2275
Delta R.T. 0.00 min
Lab File: 4691H.D
Acq: 7 Jun 01 5:19 pm

Tgt Ion:149 Resp: 11198

Ion	Ratio	Lower	Upper
149	100		
150	12.0	7.7	11.5#
167	30.3	26.2	39.2



LSC Area Percent Report

Data File : G:\H060701\4691H.D
Acq On : 7 Jun 01 5:19 pm
Sample : SBLK2241-623
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Method : G:\HPCHEM\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

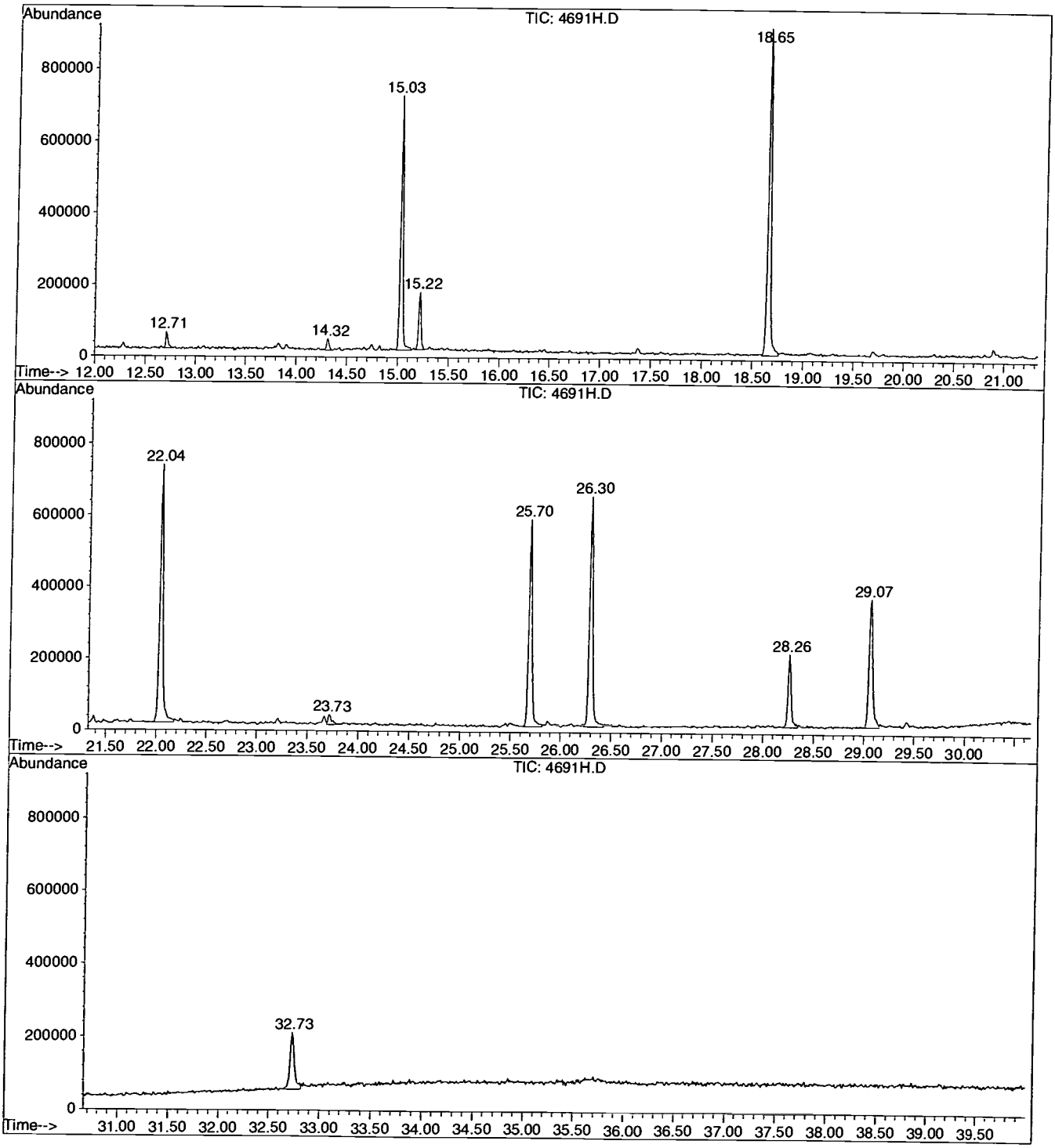
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	raw area	corr. area	corr. % max.	% of total
1	12.705	76	80	88	rVB	44450	230086	71838	3.84%	0.738%
2	14.318	252	260	266	rVB	32083	234589	61089	3.27%	0.628%
3	15.026	334	339	351	rVB	708264	1338387	1131823	60.55%	11.629%
4	15.223	355	361	366	rVV	159945	396596	258258	13.82%	2.654%
5	18.654	738	744	756	rBV	909644	2089524	1869371	100.00%	19.208%
6	22.041	1112	1122	1137	rBV	720408	1904550	1602184	85.71%	16.462%
7	23.725	1307	1310	1318	rVB	27703	217586	68003	3.64%	0.699%
8	25.696	1522	1530	1544	rBV	577877	1642168	1391110	74.42%	14.294%
9	26.297	1590	1597	1612	rBV	640993	1700297	1419122	75.91%	14.581%
10	28.259	1809	1816	1826	rBV	203542	657342	448904	24.01%	4.612%
11	29.065	1897	1906	1916	rBV2	355611	1182340	936320	50.09%	9.621%
12	32.730	2305	2315	2325	rBV	155835	910630	474328	25.37%	4.874%

Sum of corrected areas: 9732350

4691H.D DRINKWI.M Fri Jun 08 13:08:53 2001

LSC Report - Integrated Chromatogram

File : G:\H060701\4691H.D
Operator : JCM
Acquired : 7 Jun 01 5:19 pm using AcqMethod DRINKW
Instrument : GC/MS Ins
Sample Name: SBLK2241-623
Misc Info : 1L-1ML
Vial Number: 2
Quant File :DRINKWI.RES (RTE Integrator)



4691H.D DRINKWI.M Fri Jun 08 13:08:54 2001

Library Search Compound Report

Data File : G:\H060701\4691H.D
Acq On : 7 Jun 01 5:19 pm
Sample : SBLK2241-623
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

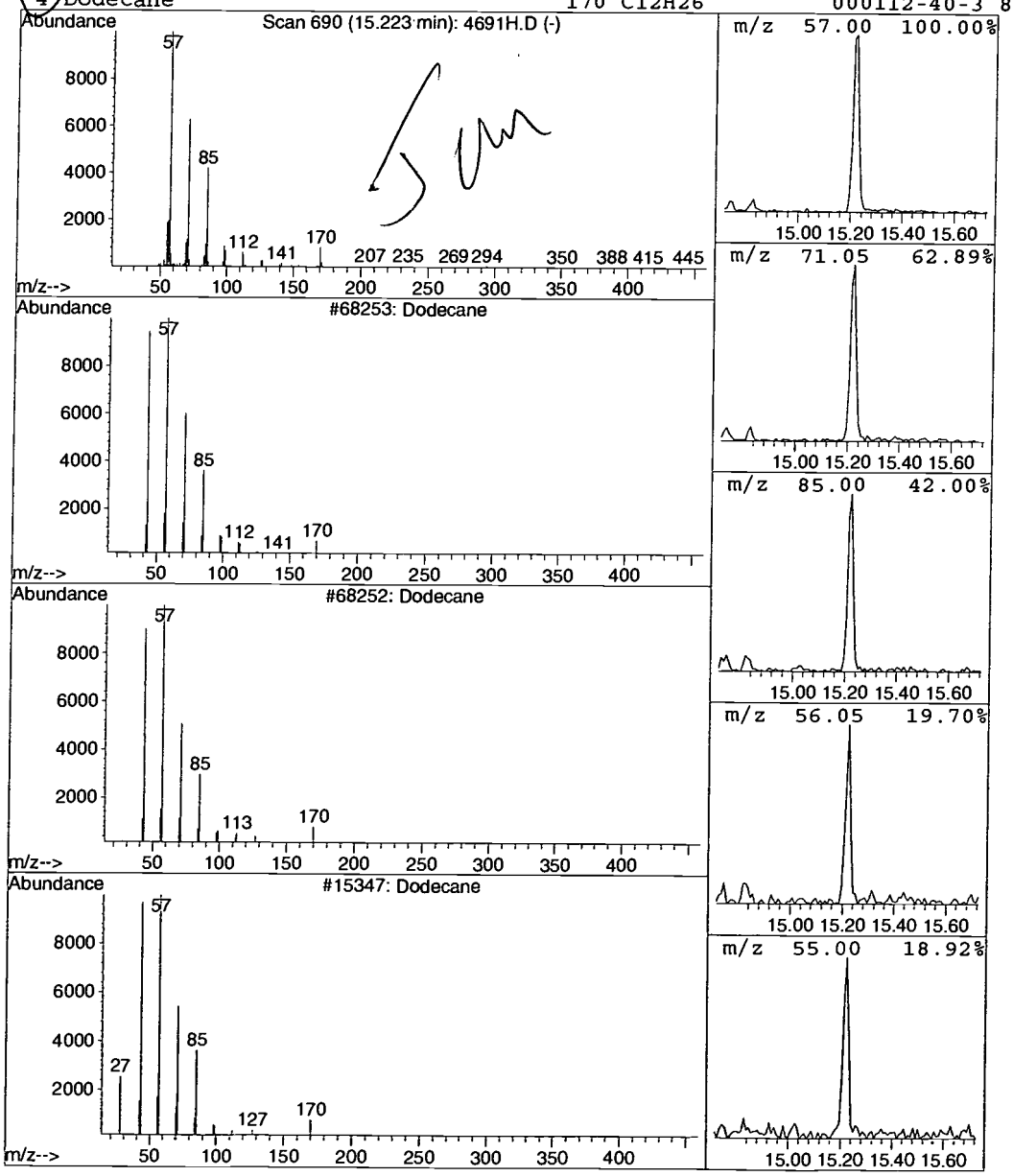
Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 1 Dodecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.22	0.69 ug/ml	258258	ACENAPHTHENE-D10	18.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	95
2	Dodecane	170	C12H26	000112-40-3	91
3	Dodecane	170	C12H26	000112-40-3	91
4	Dodecane	170	C12H26	000112-40-3	83



Library Search Compound Report

Data File : G:\H060701\4691H.D
Acq On : 7 Jun 01 5:19 pm
Sample : SBLK2241-623
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 2
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

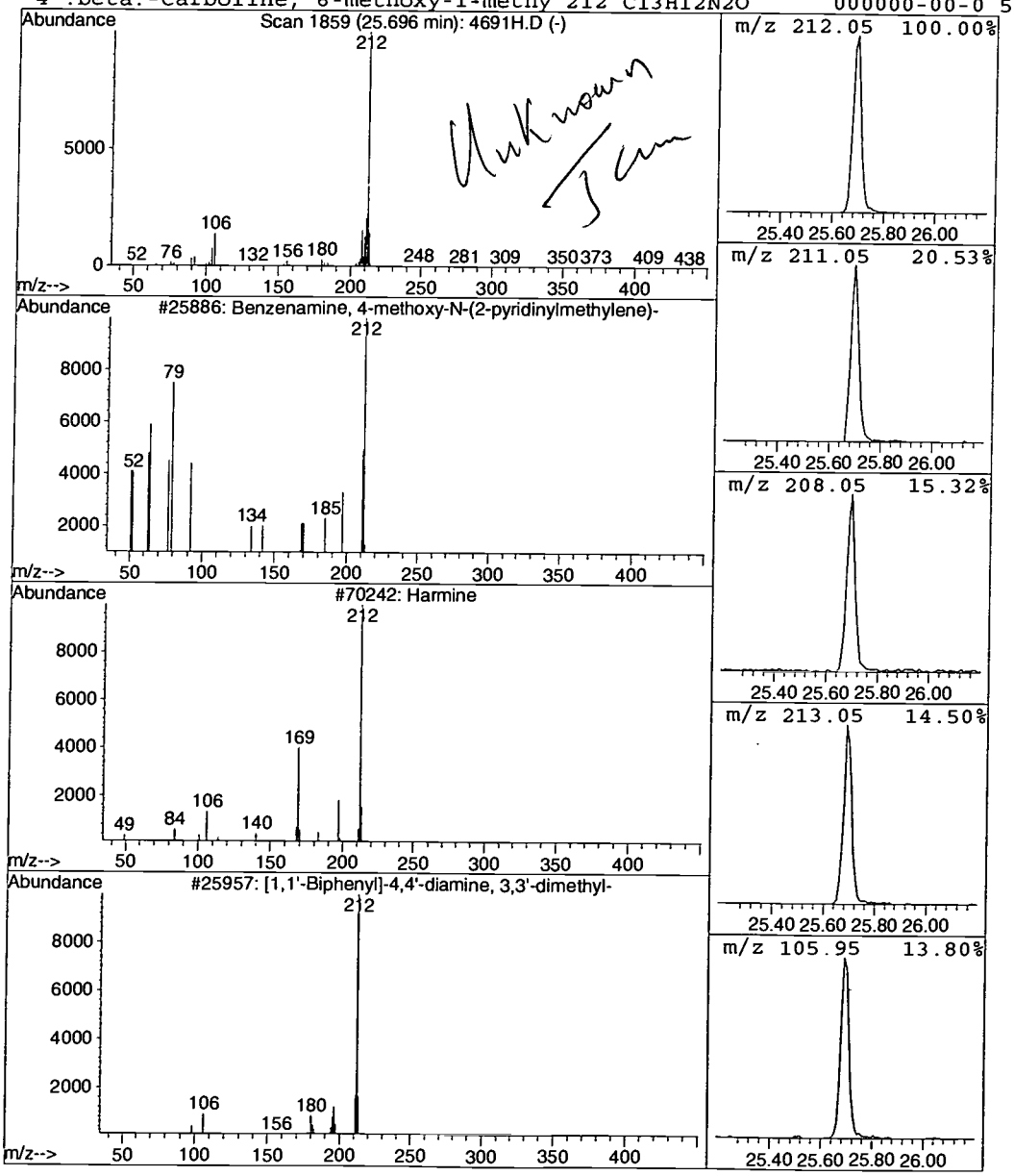
Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 2 Benzenamine, 4-methoxy-N-(2-py Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.70	4.90 ug/ml	1391110	p-Terphenyl-d14	26.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 4-methoxy-N-(2-pyridin	212	C13H12N2O	026930-67-6	53
2	Harmine	212	C13H12N2O	000442-51-3	53
3	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-	212	C14H16N2	000119-93-7	50
4	.beta.-Carboline, 6-methoxy-1-methy	212	C13H12N2O	000000-00-0	50



Tentatively Identified Compound (LSC) summary

Operator ID: JCM Date Acquired: 7 Jun 01 5:19 pm
Data File: G:\H060701\4691H.D
Name: SBLK2241-623
Misc: 1L-1ML
Method: G:\HPCHEM\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
Dodecane	15.22	0.7	ug/ml	258258	ISTD01	18.65	1869370	5.0
Benzenamine, 4-metho	25.70	4.9	ug/ml	1391110	ISTD03	26.30	1419120	5.0

4691H.D DRINKWI.M Fri Jun 08 13:08:57 2001

QC Report

QC Type	LCS	Duplicate Sample ID		Data File	4692H.D
Date Entered	06Jun2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	07Jun2001 18:11:00	Method 0	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
431	ISOPHORONE	2		2.85	!	142.5	
976	DICHLORVOS	2		2.17		108.5	
399	HEXACHLOROCYCLOPENTADIENE	2		1.71		85.5	
405	HEXACHLOROCYCLOPENTADIENE.	2		1.71		85.5	
346	EPTC (ERADICANE)	2		2.36		118	
1007	MEVINPHOS	2		1.39		69.5	
201	BUTYLATE	2		2.25		112.5	
1022	BUTYLATE (SUTAN PLUS)	2		2.25		112.5	
766	VERNOLATE	2		2.43		121.5	
2258	ETRIDIAZOLE	2		2.11		105.5	
310	DIMETHYLPHTHALATE	2		2.5		125	
571	PEBULATE (TILLAM)	2		2.35		117.5	
50	2,6-DINITROTOLUENE	2		1.19		59.5	
98	ACENAPHTHYLENE	2		2.57		128.5	
2257	CHLORNEB	2		2.47		123.5	
53	(1) 2-CHLOROBIPHENYL	2		2.57		128.5	
573	PENTACHLOROBENZENE	2		2.29		114.5	
821	TEBUTHIURON	2		.67		33.5	
48	2,4-DINITROTOLUENE	2		1.06		53	
482	MOLINATE	2		2.32		116	
306	DIETHYLPHTHALATE	2		2.37		118.5	
366	FLUORENE	2		2.4		120	
621	PROPACHLOR	2		2.26		113	
1000	ETHOPROP	2		1.93		96.5	
996	CYCLOATE	2		2.38		119	
978	CHLOROPROPHAM	2		2		100	
753	TRIFLURALIN	2		1.07		53.5	
117	ALPHA-BHC	2		2.92	!	146	
952	(5) 2,3-DICHLOROBIPHENYL	2		2.44		122	
397	HEXACHLOROBENZENE	2		1.88		94	
994	ATRATON	2		0.07	!	3.5	
619	PROMETON (PRAMITOL)	2		0.1	!	5	
667	SIMAZINE (PRINCEP)	2		1.84		92	
1819	SIMAZINE	2		1.84		92	
143	ATRAZINE	4		4.09		102.3	
168	BETA-BHC	2		2.28		114	
622	PROPAZINE (MILOGARD)	2		1.87		93.5	
577	PENTACHLOROPHENOL	8		7.93		99.1	
380	GAMMA-BHC (LINDANE)	2		2.38		119	
700	TERBUFOS (COUNTER)	2		2.06		103	
1025	PRONAMIDE	2		1.88		94	
911	DIAZINON	2		1.84		92	
597	PHENANTHRENE	2		2.05		102.5	
1030	CHLOROTHALONIL (BRAVO)	2		2.55		127.5	
328	DISULFOTON	2		2.1		105	
128	ANTHRACENE	2		2.15		107.5	
1006	METHYLPARAOXON	2		1.2		60	
1013	TERBACIL	2		1.66		83	
290	DELTA-BHC	2		2.72	!	136	
959	2,4,5-TRICHLOROBIPHENYL	2		2.04		102	
3473	ACETOCHLOR	2		2.04		102	
481	METRIBUZIN (LEXONE)	2		1.89		94.5	
2111	METRIBUZIN	2		1.89		94.5	

QC Report

QC Type	LCS	Duplicate Sample ID		Data File	4692H.D
Date Entered	06Jun2001	Duplicate QCSampleID		Analyst	2447 J. MINNIEAR, II
Analysis Date/Time	07Jun2001 18:11:00	Method 0	Matrix 1	Units	ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
110	ALACHLOR	4		4.2		105	
1011	SIMETRYN	2		1.01		50.5	
993	AMETRYN	2		1.27		63.5	
391	HEPTACHLOR	2		1.88		94	
620	PROMETRYN	2		1.64		82	
1024	PROMETRYN (CAPAROL)	2		1.64		82	
1014	TERBUTRYN	2		1.41		70.5	
329	DI-N-BUTYLPHTHALATE	2		2.32		116	
1021	BROMACIL	2		1.34		67	
958	2,2',4,4'-TETRACHLOROBIPHENYL	2		2.15		107.5	
111	ALDRIN	2		2.15		107.5	
466	METOLACHLOR	2		1.94		97	
480	METOLACHLOR (DUAL)	2		1.94		97	
238	CHLOROPYRIFOS (DURSBAN)	2		1.78		89	
333	DURSBAN (INACTIVE USE #238)	2		1.78		89	
912	DCPA (DACTHAL)	2		2.29		114.5	
268	CYANAZINE (BLADEX)	2		2.49		124.5	
1015	TRIADIMEFON	2		1.91		95.5	
997	DIPHENAMID	2		2.07		103.5	
1008	MGK 264	1		1.11		111	
3575	MGK 264-B	1		1.11		111	
572	PENDIMETHALIN	2		.93		46.5	
1008	MGK 264	1		.9		90	
3575	MGK 264-B	1		.9		90	
394	HEPTACHLOR EPOXIDE	2		2.25		112.5	
957	2,2',3',4,6-PENTACHLOROBIPHENYL	2		2.25		112.5	
381	GAMMA-CHLORDANE	2		2.6		130	
1012	STIROFOS	2		1.71		85.5	
995	BUTACHLOR	2		1.58		79	
118	ALPHA-CHLORDANE	2		2.09		104.5	
119	ALPHA-ENDOSULFAN	2		2.38		119	
335	ENDOSULFAN I	2		2.38		119	
749	TRANS-NONACHLOR	2		2.19		109.5	
1001	FENAMIPHOS	2		1.3		65	
1009	NAPROPAMIDE	2		2.18		109	
1016	TRICYCLAZOLE	2		.82		41	
78	4,4'-DDE	2		2.07		103.5	
799	P,P'-DDE	2		2.07		103.5	
955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	2		2.21		110.5	
624	PYRENE	2		1.99		99.5	
303	DIELDRIN	2		1.89		94.5	
1023	CARBOXIN	2		1.58		79	
338	ENDRIN	2		2.53		126.5	
232	CHLOROBENZILATE	2		1.19		59.5	
169	BETA-ENDOSULFAN	2		1.87		93.5	
336	ENDOSULFAN II	2		1.87		93.5	
77	4,4'-DDD	2		1.9		95	
800	P,P'-DDD	2		1.9		95	
339	ENDRIN ALDEHYDE	2		2.26		113	
1010	NORFLURAZON	2		1.56		78	
202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTH	2		1.74		87	
337	ENDOSULFAN SULFATE	2		1.81		90.5	
79	4,4'-DDT	2		1.76		88	
798	P,P'-DDT	2		1.76		88	
1004	HEXAZINONE	2		1.66		83	

QC Report

QC Type LCS Duplicate Sample ID Data File 4692H.D
Date Entered 06Jun2001 Duplicate QCSampleID Analyst 2447 J. MINNIEAR, II
Analysis Date/Time 07Jun2001 18:11:00 Method 0 Matrix 1 Units ug/L

PARM	Parameter	TruVal	SpikeVal	ObsVal	RQL	Rec	Diff
953	DI(2-ETHYLHEXYL)ADIPATE	2		1.62		81	
954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	2		2.01		100.5	
155	BENZO(A)ANTHRACENE	2		1.77		88.5	
163	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACEI	2		1.77		88.5	
956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	2		2.15		107.5	
474	METHOXYCHLOR	2		1.63		81.5	
245	CHRYSENE	2		1.95		97.5	
185	BIS(2-ETHYLHEXYL)PHTHALATE	2		2.07		103.5	
1002	FENARIMOL	2		1.15		57.5	
2259	CIS-PERMETHRIN	1.72		1.52		88.4	
2260	TRANS-PERMETHRIN	.28		.2		71.4	
157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORAI	2		1.77		88.5	
159	BENZO(K)FLUORANTHENE	2		1.99		99.5	
156	BENZO(A)PYRENE	2		1.93		96.5	
1003	FLURIDONE	2		.86		43	
413	INDENO(1,2,3-CD)PYRENE	2		1.41		70.5	
294	DIBENZ(A,H)ANTHRACENE	2		1.59		79.5	
158	BENZO(G,H,I)PERYLENE	2		1.82		91	

Comments
NA

Quantitation Report (QT Reviewed)

Data File : G:\H060701\4692H.D
Acq On : 7 Jun 01 6:11 pm
Sample : LCS #843
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 12:58 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.66	164	830553	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.04	188	1003541	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.06	240	489551	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	783604	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.03	134	215612	5.18 ug/ml	0.00
100) Triphenylphosphate	28.25	326	149326	4.78 ug/ml	0.00
114) Perylene-d12	32.72	264	312035	4.71 ug/ml	0.00
Target Compounds					Qvalue
2) Isophorone	14.14	82	469259	2.85 ug/ml#	91
4) Dichlorvos	15.76	109	250763	2.17 ug/ml#	78
5) Hexachlorocyclopentadiene	16.87	237	58990	1.71 ug/ml#	71
6) EPTC	17.14	128	187429	2.36 ug/ml#	29
7) Mevinphos	17.89	127	181279	1.39 ug/ml#	67
8) Butylate	17.95	146	150077	2.25 ug/ml#	25
9) Vernolate	18.15	128	222071	2.43 ug/ml#	54
10) Terrazole	18.21	211	63940	2.11 ug/ml	88
11) Dimethylphthalate	18.18	163	543683	2.50 ug/ml	100
12) Pebulate	18.31	128	216395	2.35 ug/ml#	31
13) 2,6-Dinitrotoluene	18.28	165	28760	1.19 ug/ml#	70
14) Acenaphthylene	18.35	152	692692	2.57 ug/ml	100
15) Chloroneb	18.80	191	207112	2.47 ug/ml	97
16) 2-Chlorobiphenyl	18.83	188	445378	2.57 ug/ml	100
17) Pentachlorobenzene	19.01	248	128625	2.29 ug/ml#	43
18) Tebuthiuron	19.01	156	17588m	0.67 ug/ml	54
19) 2,4-Dinitrotoluene	19.12	165	20272	1.06 ug/ml#	63
20) Molinate	19.26	126	261012	2.32 ug/ml#	83
21) Diethylphthalate	19.71	149	491996	2.37 ug/ml	100
22) Fluorene	19.85	166	444412	2.40 ug/ml	93
23) Propachlor	19.93	120	230849	2.26 ug/ml#	3
24) Ethoprop	20.23	158	102834	1.93 ug/ml#	61
25) Cycloate	20.28	154	227272	2.38 ug/ml#	24
26) Chlorpropham	20.46	127	109443	2.00 ug/ml#	65
27) Trifluralin	20.49	306	48667	1.07 ug/ml	98
28) alpha-BHC	21.02	181	107559	2.92 ug/ml#	80
29) 2,3-Dichlorobiphenyl	21.06	222	273751	2.44 ug/ml	90
31) Hexachlorobenzene	21.10	284	169165	1.88 ug/ml	93
32) Atraton	21.26	196	3290	0.07 ug/ml#	63
33) Prometon	21.37	210	5031	0.10 ug/ml#	65
34) Simazine	21.39	201	58144	1.84 ug/ml#	70
35) Atrazine	21.48	200	221548	4.09 ug/ml	100
36) beta-BHC	21.53	183	66241m	2.28 ug/ml	94
37) Propazine	21.55	214	110313	1.87 ug/ml#	81
38) Pentachlorophenol	21.61	266	80447m	7.93 ug/ml	85
39) g-BHC (Lindane)	21.73	181	81639m	2.38 ug/ml	92
40) Terbufos	21.79	231	144728	2.06 ug/ml#	7
41) Pronamide	21.86	173	148505	1.88 ug/ml#	90
42) Diazinon	21.89	137	98786	1.84 ug/ml#	90
43) Phenanthrene	22.09	178	493273	2.05 ug/ml	98
44) Chlorothalonil	22.05	266	126987	2.55 ug/ml#	83
45) Disulfoton	22.16	88	208711	2.10 ug/ml#	47
46) Anthracene	22.22	178	439469	2.15 ug/ml	97
47) Methyl paraoxon	22.16	109	22221	1.20 ug/ml#	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H060701\4692H.D
Acq On : 7 Jun 01 6:11 pm
Sample : LCS #843
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 12:58 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) Terbacil	22.16	161	68486	1.66 ug/ml#	85
49) delta-BHC	22.32	181	62095	2.72 ug/ml#	74
50) Trichlorobiphenyl	22.65	256	176274	2.04 ug/ml	100
51) Acetochlor	22.90	146	65808	2.04 ug/ml#	72
52) Metribuzin	22.94	198	66220	1.89 ug/ml	100
53) Alachlor	23.09	160	190926	4.20 ug/ml	97
54) Simetryn	23.17	213	63793	1.01 ug/ml#	91
55) Ametryn	23.25	227	73956	1.27 ug/ml#	83
56) Heptachlor	23.32	100	76605	1.88 ug/ml#	75
57) Prometryn	23.31	241	114415	1.64 ug/ml	91
58) Terbutryn	23.59	226	78107	1.41 ug/ml#	83
59) Di-n-butyl phthalate	23.72	149	721615	2.32 ug/ml	100
60) Bromacil	23.65	205	33742	1.34 ug/ml#	73
61) Tetrachlorobiphenyl	23.86	292	121181	2.15 ug/ml	100
62) Aldrin	24.11	66	67901	2.15 ug/ml#	80
63) Metolachlor	23.93	162	266104	1.94 ug/ml#	86
64) Chlorpyrifos	23.95	314	32402	1.78 ug/ml#	1
65) DCPA	24.07	301	133172	2.29 ug/ml#	80
66) Cyanazine	24.06	212	6079	2.49 ug/ml#	1
67) Triadimefon	24.20	57	92300	1.91 ug/ml#	55
68) Diphenamid	24.45	167	190024	2.07 ug/ml#	62
69) MGK 264-A	24.49	111	40092	1.11 ug/ml#	54
70) Pendimethalin	24.68	252	26034	0.93 ug/ml#	67
71) MGK 264-B	24.76	164	41240	0.90 ug/ml#	78
72) Heptachlor epoxide	24.95	81	50043	2.25 ug/ml#	72
73) Pentachlorobiphenyl	24.99	326	92562	2.25 ug/ml	100
74) g-Chlordane	25.46	375	67500	2.60 ug/ml	100
75) Stirofos	25.47	109	66797	1.71 ug/ml#	90
76) Butachlor	25.53	176	68928	1.58 ug/ml	100
77) a-Chlordane	25.75	373	55696	2.09 ug/ml#	82
78) Endosulfan I	25.75	195	30338	2.38 ug/ml	90
79) trans-Nonachlor	25.80	409	56472	2.19 ug/ml#	74
80) Fenamiphos	25.78	303	19348	1.30 ug/ml#	72
81) Napropamide	25.85	72	143105	2.18 ug/ml#	75
82) Tricyclazole	26.12	189	6781m	0.82 ug/ml	77
83) p,p'-DDE	26.17	246	87194	2.07 ug/ml#	84
84) Hexachlorobiphenyl	26.31	360	74549	2.21 ug/ml#	75
86) Pyrene	25.74	202	440028	1.99 ug/ml	99
87) Dieldrin	26.35	79	90034	1.89 ug/ml#	71
88) Carboxin	26.36	143	84893	1.58 ug/ml#	66
89) Endrin	26.80	81	24437	2.53 ug/ml#	37
90) Chlorobenzilate	26.88	139	52946m	1.19 ug/ml	73
91) Endosulfan II	27.04	195	14931	1.87 ug/ml#	83
92) p,p'-DDD	27.08	235	143246	1.90 ug/ml	94
93) Endrin aldehyde	27.34	67	31920	2.26 ug/ml#	60
94) Norflurazon	27.64	145	25559m	1.56 ug/ml	85
95) Butylbenzylphthalate	27.74	149	139776	1.74 ug/ml#	87
96) Endosulfan sulfate	27.84	272	16620	1.81 ug/ml#	78
97) p,p'-DDT	27.90	235	90107	1.76 ug/ml#	72
98) Hexazinone	27.98	171	74303	1.66 ug/ml#	94
99) Di(2-ethylhexyl)adipate	28.08	129	118881	1.62 ug/ml#	62
101) Heptachlorobiphenyl	28.93	394	35147	2.01 ug/ml#	1
102) Benz(a)anthracene	29.03	228	239716	1.77 ug/ml#	89
103) Octachlorobiphenyl	29.05	430	45417	2.15 ug/ml	88
104) Methoxychlor	29.05	227	128218	1.63 ug/ml#	56

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\H060701\4692H.D
Acq On : 7 Jun 01 6:11 pm
Sample : LCS #843
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 12:58 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) Chrysene	29.13	228	232538	1.95 ug/ml#	100
106) bis(2-Ethylhexyl)phthalate	29.43	149	215674	2.07 ug/ml	93
107) Fenarimol	30.31	139	13717m	1.15 ug/ml	86
108) cis-Permethrin	30.95	183	160683	1.52 ug/ml#	63
109) trans-Permethrin	31.09	183	21036	0.20 ug/ml#	81
110) Benzo(b)fluoranthene	31.83	252	148211	1.77 ug/ml#	88
111) Benzo(k)fluoranthene	31.90	252	169269	1.99 ug/ml#	93
112) Benzo(a)pyrene	32.60	252	122224	1.93 ~~1.93~~ ug/ml	100
113) Fluridone	32.60	328	10846m	0.86 ug/ml	51
115) Indeno(1,2,3-cd)pyrene	35.44	276	70882	1.41 ug/ml#	77
116) Dibenz(a,h)anthracene	35.53	278	65600	1.59 ug/ml#	63
117) Benzo(g,h,i)perylene	36.19	276	90592	1.82 ug/ml#	56

(JCM 6-12-01)

(#) = qualifier out of range (m) = manual integration
4692H.D DRINKWI.M Fri Jun 08 12:59:46 2001

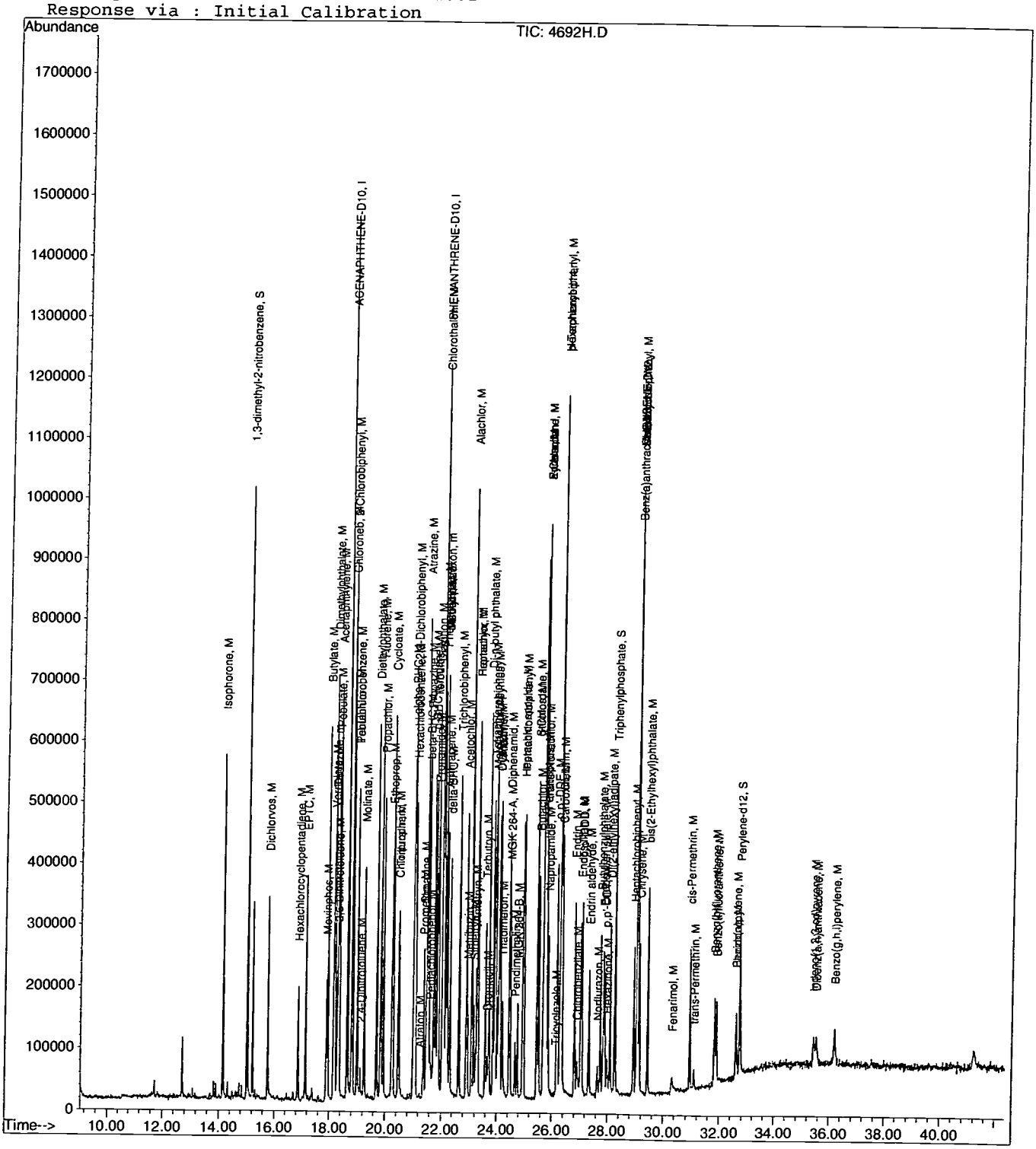
Quantitation Report

Data File : G:\H060701\4692H.D
Acq On : 7 Jun 01 6:11 pm
Sample : LCS #843
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 12:58 2001

Vial: 3
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration



4692H.D DRINKWI.M Fri Jun 08 12:59:51 2001

R414315 **Heritage Environmental Services** A555261

GC/MS SVOA

Method : EPA 525.2 REV. 2.0 **Test Code O512.0.0**

Sample Description : DK27345 Analyst #: 2447 J. MINNIEAR, II

Submitter : IDEM - OFFICE OF WATER MANAGEM File : 4696H.D Date/Time : 07Jun2001 21:39:00

Instrument # : 160 Channel # : 1 Dilution Factor 1

Init Weight/Vol 1000 mL Final Volume 1.0 mL

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
78-59-1	431	ISOPHORONE		BDL	0.10	UG/L	
62-73-7	976	DICHLORVOS		BDL	0.10	UG/L	
77-47-4	399	HEXACHLOROCYCLOPENTADIENE		BDL	0.10	UG/L	
759-94-4	346	EPTC (ERADICANE)		BDL	0.10	UG/L	
7786-34-7	1007	MEVINPHOS		BDL	0.10	UG/L	
2008-41-5	201	BUTYLATE		BDL	0.10	UG/L	
1929-77-7	766	VERNOLATE		BDL	0.10	UG/L	
2593-15-9	2258	ETRIDIAZOLE		BDL	0.10	UG/L	
131-11-3	310	DIMETHYLPHTHALATE		BDL	0.10	UG/L	
1114-71-2	571	PEBULATE (TILLAM)		BDL	0.10	UG/L	
606-20-2	50	2,6-DINITROTOLUENE		BDL	0.10	UG/L	
208-96-8	98	ACENAPHTHYLENE		BDL	0.10	UG/L	
2675-77-6	2257	CHLORNEB		BDL	0.10	UG/L	
2051-60-7	53	2-CHLOROBIPHENYL (1)		BDL	0.10	UG/L	
608-93-5	573	PENTACHLOROBENZENE		BDL	0.10	UG/L	
34014-18-1	821	TEBUTHIURON		BDL	0.50	UG/L	
121-14-2	48	2,4-DINITROTOLUENE		BDL	0.10	UG/L	
2212-67-1	482	MOLINATE		BDL	0.10	UG/L	
84-66-2	306	DIETHYLPHTHALATE		BDL	0.10	UG/L	
86-73-7	366	FLUORENE		BDL	0.10	UG/L	
1918-16-7	621	PROPACHLOR		BDL	0.10	UG/L	
13194-48-4	1000	ETHOPROP		BDL	0.10	UG/L	
1134-23-2	996	CYCLOATE		BDL	0.10	UG/L	
101-21-3	978	CHLOROPROPHAM		BDL	0.10	UG/L	
1582-09-8	753	TRIFLURALIN		BDL	0.10	UG/L	
319-84-6	117	ALPHA-BHC		BDL	0.10	UG/L	
16605-91-7	952	2,3-DICHLOROBIPHENYL (5)		BDL	0.10	UG/L	
118-74-1	397	HEXACHLOROBENZENE		BDL	0.10	UG/L	
1610-17-9	994	ATRATON		BDL	0.50	UG/L	
1610-18-0	619	PROMETON (PRAMITOL)		BDL	0.50	UG/L	
122-34-9	1819	SIMAZINE		BDL	0.10	UG/L	
1912-24-9	143	ATRAZINE		BDL	0.10	UG/L	
319-85-7	168	BETA-BHC		BDL	0.10	UG/L	
139-40-2	622	PROPAZINE (MILOGARD)		BDL	0.10	UG/L	
87-86-5	577	PENTACHLOROPHENOL		BDL	2.0	UG/L	
58-89-9	380	GAMMA-BHC (LINDANE)		BDL	0.10	UG/L	
13071-79-9	700	TERBUFOS (COUNTER)		BDL	0.10	UG/L	
23950-58-5	1025	PRONAMIDE		BDL	0.10	UG/L	
333-41-5	911	DIAZINON		BDL	0.10	UG/L	
85-01-8	597	PHENANTHRENE		BDL	0.10	UG/L	
1897-45-6	1030	CHLOROTHALONIL (BRAVO)		BDL	0.10	UG/L	
298-04-4	328	DISULFOTON		BDL	0.10	UG/L	
120-12-7	128	ANTHRACENE		BDL	0.10	UG/L	
950-35-6	1006	METHYLPARAOXON		BDL	0.50	UG/L	
5902-51-2	1013	TERBACIL		BDL	0.10	UG/L	
319-86-8	290	DELTA-BHC		BDL	0.10	UG/L	

LAS 6-13-1

R414315 **Heritage Environmental Services** A555261

GC/MS SVOA

Method : EPA 525.2 REV. 2.0 **Test Code O512.0.0**

Sample Description : DK27345 Analyst #: 2447 J. MINNIEAR, II

Submitter : IDEM - OFFICE OF WATER MANAGEM File : 4696H.D Date/Time : 07Jun2001 21:39:00

Instrument # : 160 Channel # : 1 Dilution Factor 1

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
15862-07-4	959	2,4,5-TRICHLOROBIPHENYL		BDL	0.10	UG/L	
34256-82-1	3473	ACETOCHLOR		BDL	0.10	UG/L	
21087-64-9	2111	METRIBUZIN		BDL	0.10	UG/L	
15972-60-8	110	ALACHLOR		BDL	0.10	UG/L	
1014-70-6	1011	SIMETRYN		BDL	0.10	UG/L	
834-12-8	993	AMETRYN		BDL	0.10	UG/L	
76-44-8	391	HEPTACHLOR		BDL	0.10	UG/L	
7287-19-6	620	PROMETRYN		BDL	0.10	UG/L	
886-50-0	1014	TERBUTRYN		BDL	0.10	UG/L	
84-74-2	329	DI-N-BUTYLPHTHALATE	.15	B	0.10	UG/L	
314-40-9	1021	BROMACIL		BDL	0.50	UG/L	
2437-79-8	958	2,2',4,4'-TETRACHLOROBIPHENYL		BDL	0.10	UG/L	
309-00-2	111	ALDRIN		BDL	0.10	UG/L	
51218-45-2	466	METOLACHLOR		BDL	0.10	UG/L	
2921-88-2	238	CHLOROPYRIFOS (DURSBAN)		BDL	0.10	UG/L	
1861-32-1	912	DCPA (DACTHAL)		BDL	0.10	UG/L	
21725-46-2	268	CYANAZINE (BLADEX)		BDL	0.10	UG/L	
43121-43-3	1015	TRIADIMEFON		BDL	0.10	UG/L	
957-51-7	997	DIPHENAMID		BDL	0.10	UG/L	
113-48-4	1008	MGK 264		BDL	0.10	UG/L	
40487-42-1	572	PENDIMETHALIN		BDL	0.10	UG/L	
1024-57-3	394	HEPTACHLOR EPOXIDE		BDL	0.10	UG/L	
60233-25-2	957	2,2',3',4,6-PENTACHLOROBIPHENYL		BDL	0.10	UG/L	
5103-74-2	381	GAMMA-CHLORDANE		BDL	0.10	UG/L	
22248-79-9	1012	STIROFOS		BDL	0.10	UG/L	
23184-66-9	995	BUTACHLOR		BDL	0.10	UG/L	
5103-71-9	118	ALPHA-CHLORDANE		BDL	0.10	UG/L	
959-98-8	335	ENDOSULFAN I		BDL	0.10	UG/L	
39765-80-5	749	TRANS-NONACHLOR		BDL	0.10	UG/L	
22224-92-6	1001	FENAMIPHOS		BDL	0.50	UG/L	
15299-99-7	1009	NAPROPAMIDE		BDL	0.10	UG/L	
41814-78-2	1016	TRICYCLAZOLE		BDL	0.10	UG/L	
72-55-9	78	4,4'-DDE		BDL	0.10	UG/L	
60145-22-4	955	2,2',4,4',5,6'-HEXACHLOROBIPHENYL		BDL	0.10	UG/L	
129-00-0	624	PYRENE		BDL	0.10	UG/L	
60-57-1	303	DIELDRIN		BDL	0.10	UG/L	
5234-68-4	1023	CARBOXIN		BDL	0.10	UG/L	
72-20-8	338	ENDRIN		BDL	0.10	UG/L	
510-15-6	232	CHLOROBENZILATE		BDL	0.10	UG/L	
33213-65-9	336	ENDOSULFAN II		BDL	0.50	UG/L	
72-54-8	77	4,4'-DDD		BDL	0.10	UG/L	
7421-93-4	339	ENDRIN ALDEHYDE		BDL	0.50	UG/L	
27314-13-2	1010	NORFLURAZON		BDL	0.50	UG/L	
85-68-7	202	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTH/		BDL	0.10	UG/L	
1031-07-8	337	ENDOSULFAN SULFATE		BDL	0.10	UG/L	
50-29-3	79	4,4'-DDT		BDL	0.10	UG/L	
51235-04-2	1004	HEXAZINONE		BDL	0.10	UG/L	
103-23-1	953	DI(2-ETHYLHEXYL)ADIPATE		BDL	0.10	UG/L	

R414315 **Heritage Environmental Services** A555261

GC/MS SVOA

Method : EPA 525.2 REV. 2.0 **Test Code O512.0.0**

Sample Description : DK27345 Analyst #: 2447 J. MINNIEAR, II

Submitter : IDEM - OFFICE OF WATER MANAGEM File : 4696H.D Date/Time : 07Jun2001 21:39:00

Instrument # : 160 Channel # : 1 Dilution Factor 1

CAS	PRM	Parameter	Concentration	RQL	Limit	Units	RT
52663-71-5	954	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL		BDL	0.10	UG/L	
56-55-3	163	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENI		BDL	0.10	UG/L	
40186-71-8	956	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL		BDL	0.10	UG/L	
72-43-5	474	METHOXYCHLOR		BDL	0.10	UG/L	
218-01-9	245	CHRYSENE		BDL	0.10	UG/L	
117-81-7	185	BIS(2-ETHYLHEXYL)PHTHALATE	.24	B	0.10	UG/L	
60168-88-9	1002	FENARIMOL		BDL	0.50	UG/L	
54774-45-7	2259	CIS-PERMETHRIN		BDL	0.10	UG/L	
51877-74-8	2260	TRANS-PERMETHRIN		BDL	0.10	UG/L	
205-99-2	157	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANT		BDL	0.10	UG/L	
207-08-9	159	BENZO(K)FLUORANTHENE		BDL	0.10	UG/L	
50-32-8	156	BENZO(A)PYRENE		BDL	0.10	UG/L	
59756-60-4	1003	FLURIDONE		BDL	0.10	UG/L	
193-39-5	413	INDENO(1,2,3-CD)PYRENE		BDL	0.10	UG/L	
53-70-3	294	DIBENZ(A,H)ANTHRACENE		BDL	0.10	UG/L	
191-24-2	158	BENZO(G,H,I)PERYLENE		BDL	0.10	UG/L	
NA	1804	...					
NA	972	----------					
NA	971	SURROGATE RECOVERY					
81-20-9	2949	2-NITRO-M-XYLENE	107			% REC(	
115-86-6	2894	TRIPHENYL ESTER PHOSPHORIC ACID	97			% REC(	
1520-96-3	3474	PERYLENE-D12	82			% REC(	
NA	1804	...					
TIC	1131	TENTATIVELY IDENTIFIED COMPOUNDS					
NA	972	----------					
112-40-3	1285	DODECANE	0.82	J		UG/L	15.21
NA	758	UNKNOWN	5.7	J		UG/L	25.69

Test Comments

Sample failed method internal standard area criteria. Sample reanalyzed
Di-n-butylphthalate was detected at 0.13ug/L in prep blank.
with no improvement.
Bis(2-ethylhexyl)phthalate was detected at 0.16ug/L in prep blank.

RQL

B Detected in blank
BDL Below Detection Limit
J Estimated

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A555261

Lab Name: HERITAGE Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: A555261

Sample wt/vol: 1000 (g/ml) ML Lab File ID: 4696H.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/07/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000112-40-3	Dodecane	15.21	0.82	JN
2.	unknown	25.69	65.7	J

Quantitation Report (Not Reviewed)

Data File : G:\H060701\4696H.D
Acq On : 7 Jun 01 9:39 pm
Sample : A555261
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 10:48 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: DRINKWI.RES

Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration
DataAcq Meth : DRINKW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) ACENAPHTHENE-D10	18.65	164	497732	5.00 ug/ml	0.00
30) PHENANTHRENE-D10	22.03	188	524428	5.00 ug/ml	0.00
85) CHRYSENE-D12	29.06	240	258185	5.00 ug/ml	0.00
118) p-Terphenyl-d14	26.29	244	410831	5.00 ug/ml	0.00
System Monitoring Compounds					
3) 1,3-dimethyl-2-nitrobenzen	15.02	134	133530	5.35 ug/ml	0.00
100) Triphenylphosphate	28.26	326	79655	4.83 ug/ml	0.00
114) Perylene-d12	32.73	264	143340	4.10 ug/ml	0.00
Target Compounds					Qvalue
13) 2,6-Dinitrotoluene	18.65	165	63043	4.35 ug/ml#	34
18) Tebuthiuron	18.65	156	23992	1.52 ug/ml#	62
19) 2,4-Dinitrotoluene	18.65	165	49100	4.29 ug/ml#	38
59) Di-n-butyl phthalate	23.72	149	24909	0.15 ug/ml	97
83) p,p'-DDE	26.29	246	7199	0.33 ug/ml#	21
106) bis(2-Ethylhexyl)phthalate	29.42	149	13251	0.24 ug/ml#	96

(#) = qualifier out of range (m) = manual integration
4696H.D DRINKWI.M Fri Jun 08 10:49:22 2001

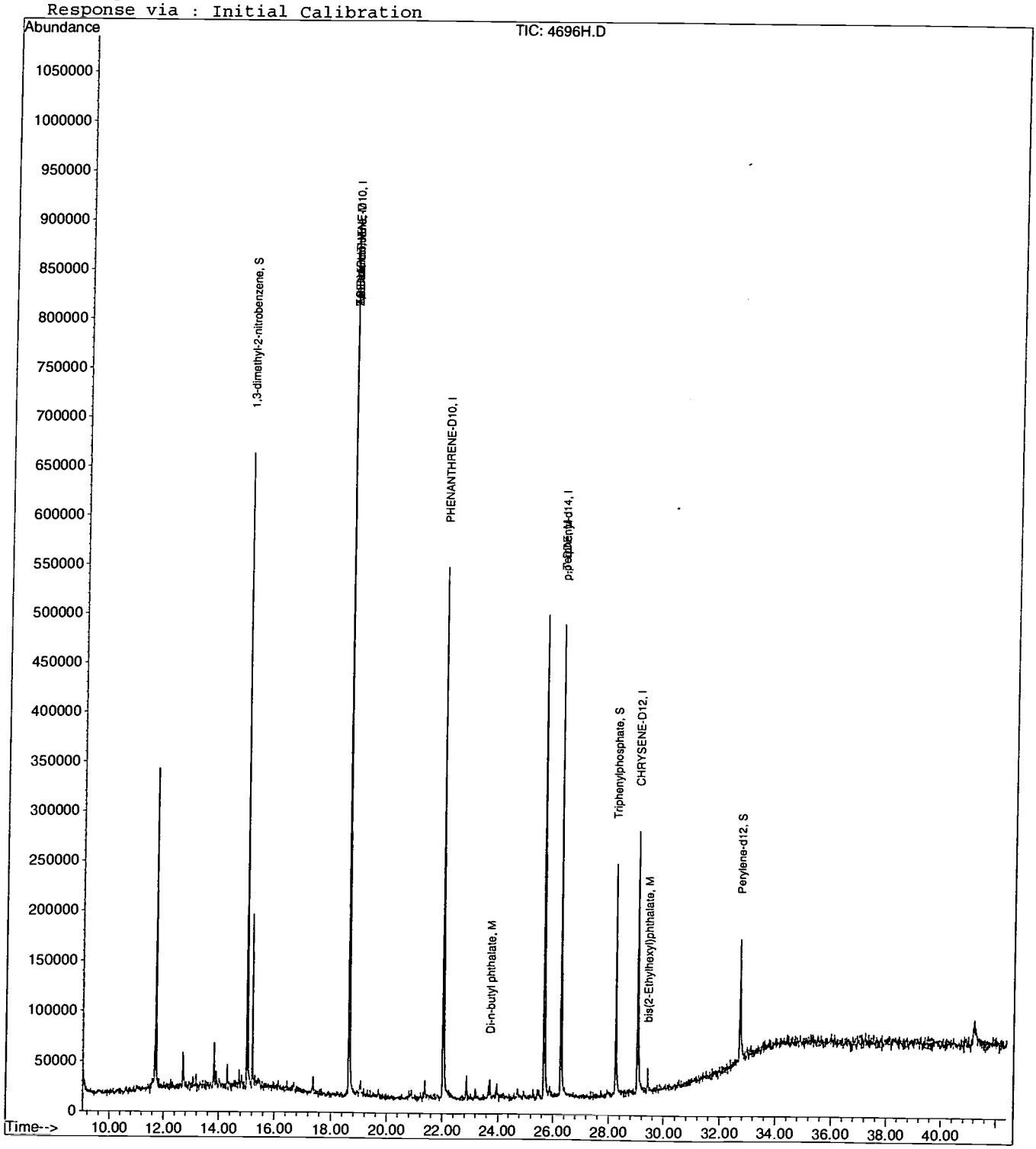
Quantitation Report

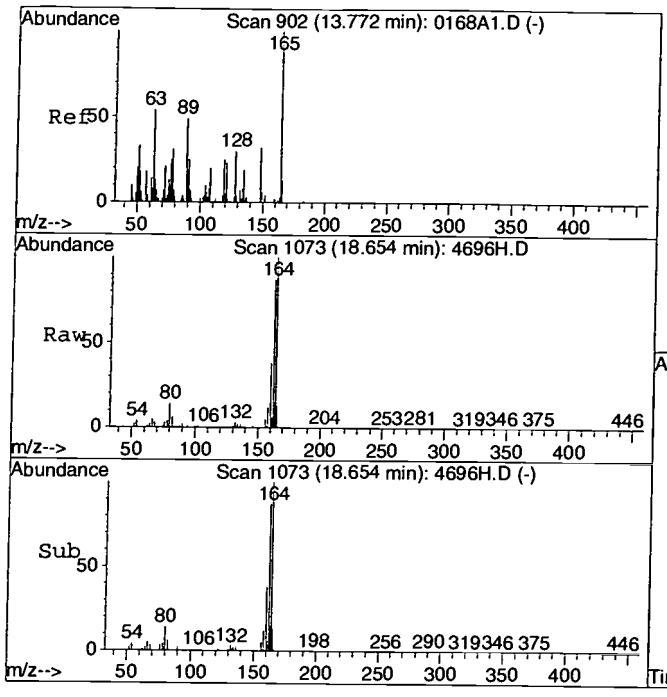
Data File : G:\H060701\4696H.D
Acq On : 7 Jun 01 9:39 pm
Sample : A555261
Misc : 1L-1ML
MS Integration Params: rteint.p
Quant Time: Jun 8 10:48 2001

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: DRINKWI.RES

Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Last Update : Wed Mar 21 11:40:17 2001
Response via : Initial Calibration

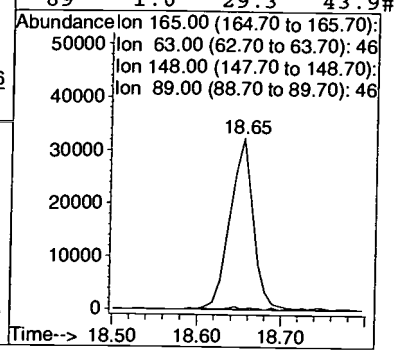




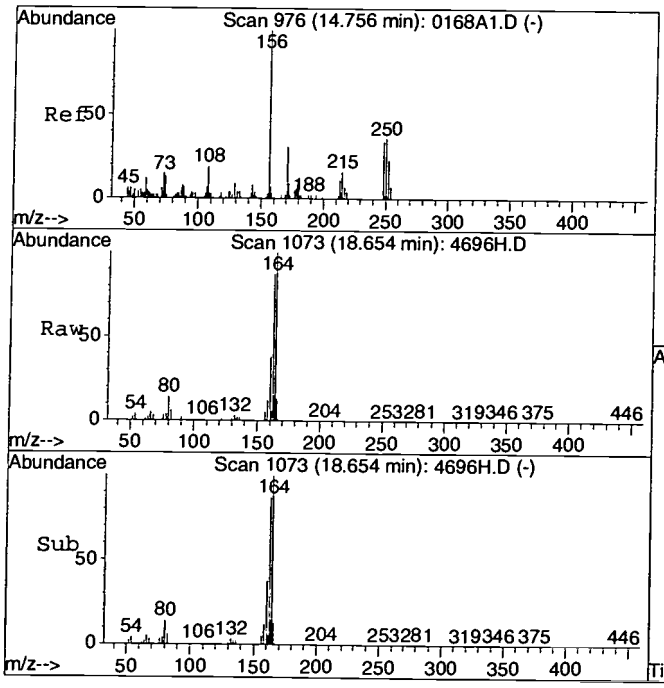
#13
2,6-Dinitrotoluene
Concen: 4.35 ug/ml
RT: 18.65 min Scan# 1073
Delta R.T. 0.37 min
Lab File: 4696H.D
Acq: 7 Jun 01 9:39 pm

Tgt Ion:165 Resp: 63043

Ion	Ratio	Lower	Upper
165	100		
63	0.5	40.7	61.1#
148	0.2	29.4	44.2#
89	1.0	29.3	43.9#



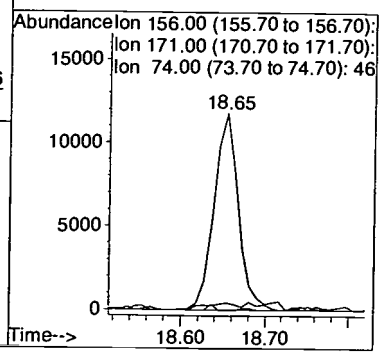
Bad fit
Jm



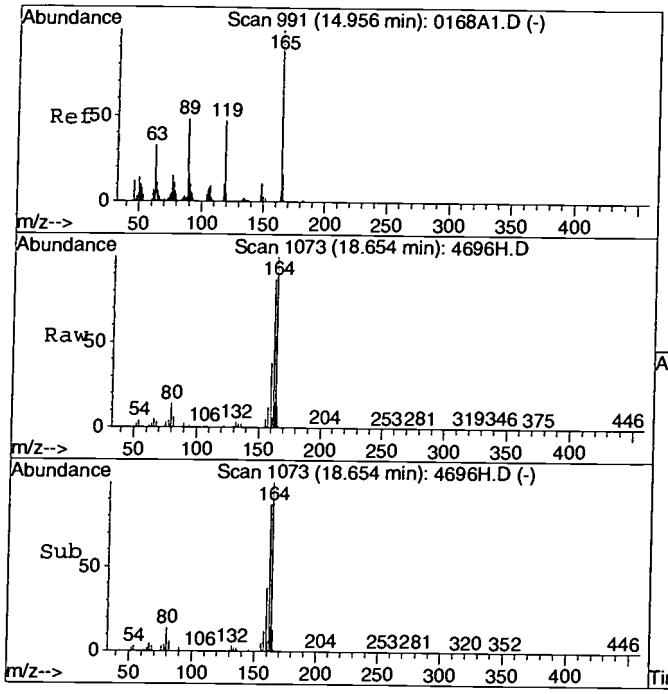
#18
Tebuthiuron
Concen: 1.52 ug/ml
RT: 18.65 min Scan# 1073
Delta R.T. -0.33 min
Lab File: 4696H.D
Acq: 7 Jun 01 9:39 pm

Tgt Ion:156 Resp: 23992

Ion	Ratio	Lower	Upper
156	100		
171	0.8	19.0	28.6#
74	4.8	12.2	18.2#



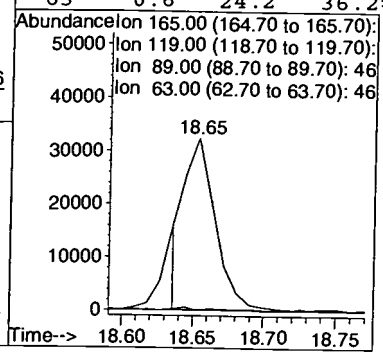
Bad fit
Jm



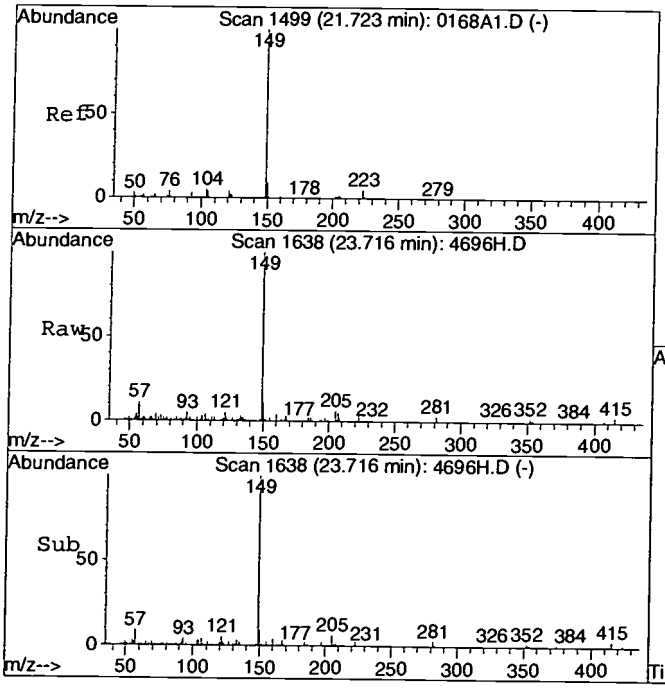
#19
2,4-Dinitrotoluene
Concen: 4.29 ug/ml
RT: 18.65 min Scan# 1073
Delta R.T. -0.46 min
Lab File: 4696H.D
Acq: 7 Jun 01 9:39 pm

Tgt Ion:165 Resp: 49100

Ion	Ratio	Lower	Upper
165	100		
119	0.6	36.4	54.6#
89	0.5	27.4	41.2#
63	0.6	24.2	36.2#



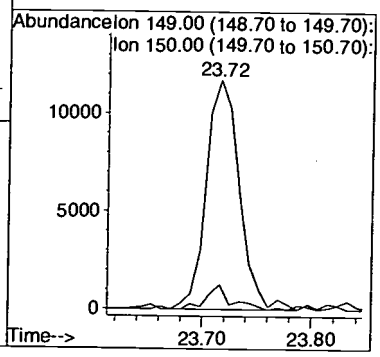
Bedfit Jun



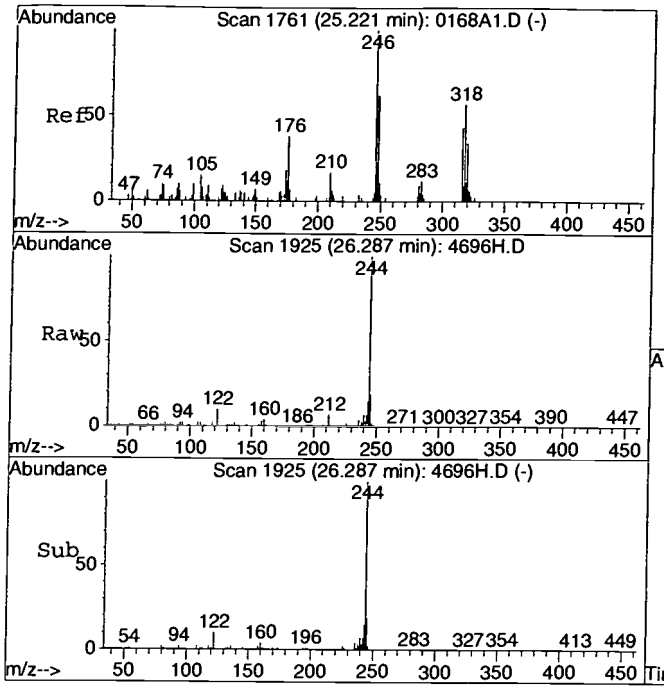
#59
Di-n-butyl phthalate
Concen: 0.15 ug/ml
RT: 23.72 min Scan# 1638
Delta R.T. 0.00 min
Lab File: 4696H.D
Acq: 7 Jun 01 9:39 pm

Tgt Ion:149 Resp: 24909

Ion	Ratio	Lower	Upper
149	100		
150	7.8	7.0	10.6



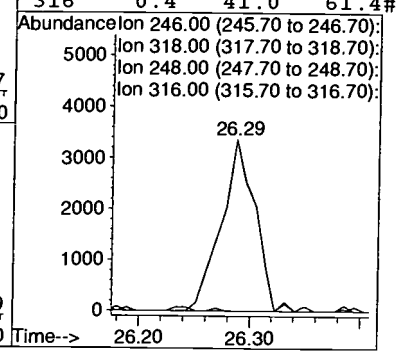
✓ Jun



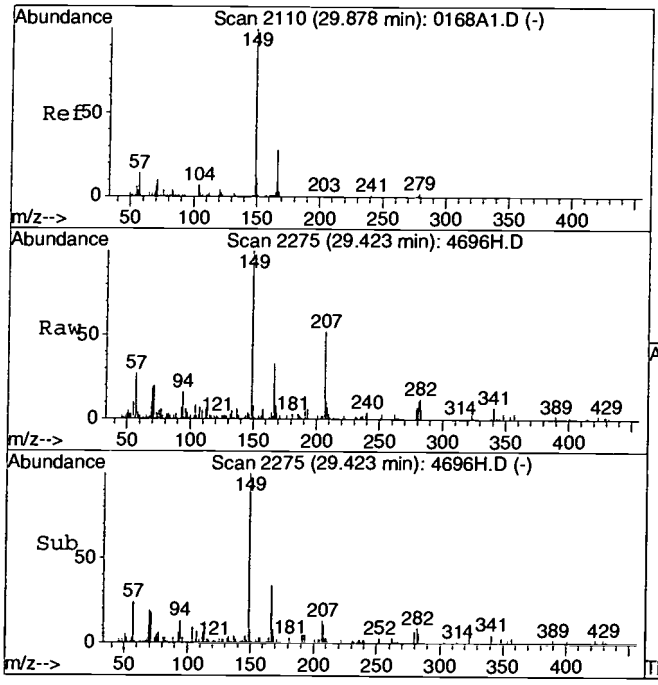
#83
p,p'-DDE
Concen: 0.33 ug/ml
RT: 26.29 min Scan# 1925
Delta R.T. 0.12 min
Lab File: 4696H.D
Acq: 7 Jun 01 9:39 pm

Tgt Ion:246 Resp: 7199

Ion	Ratio	Lower	Upper
246	100		
318	0.0	51.8	77.6#
248	0.0	49.3	73.9#
316	0.4	41.0	61.4#



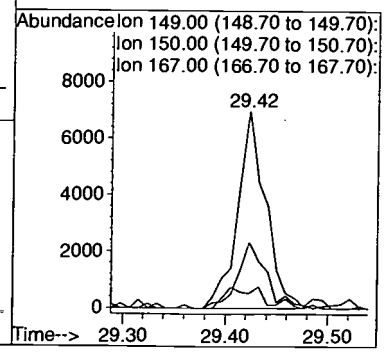
Bad Hit
Jun



#106
bis(2-Ethylhexyl)phthalate
Concen: 0.24 ug/ml
RT: 29.42 min Scan# 2275
Delta R.T. 0.00 min
Lab File: 4696H.D
Acq: 7 Jun 01 9:39 pm

Tgt Ion:149 Resp: 13251

Ion	Ratio	Lower	Upper
149	100		
150	12.9	7.7	11.5#
167	34.2	26.2	39.2



Jun

LSC Area Percent Report

Data File : G:\H060701\4696H.D
Acq On : 7 Jun 01 9:39 pm
Sample : A555261
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

Method : G:\HPCHEM\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

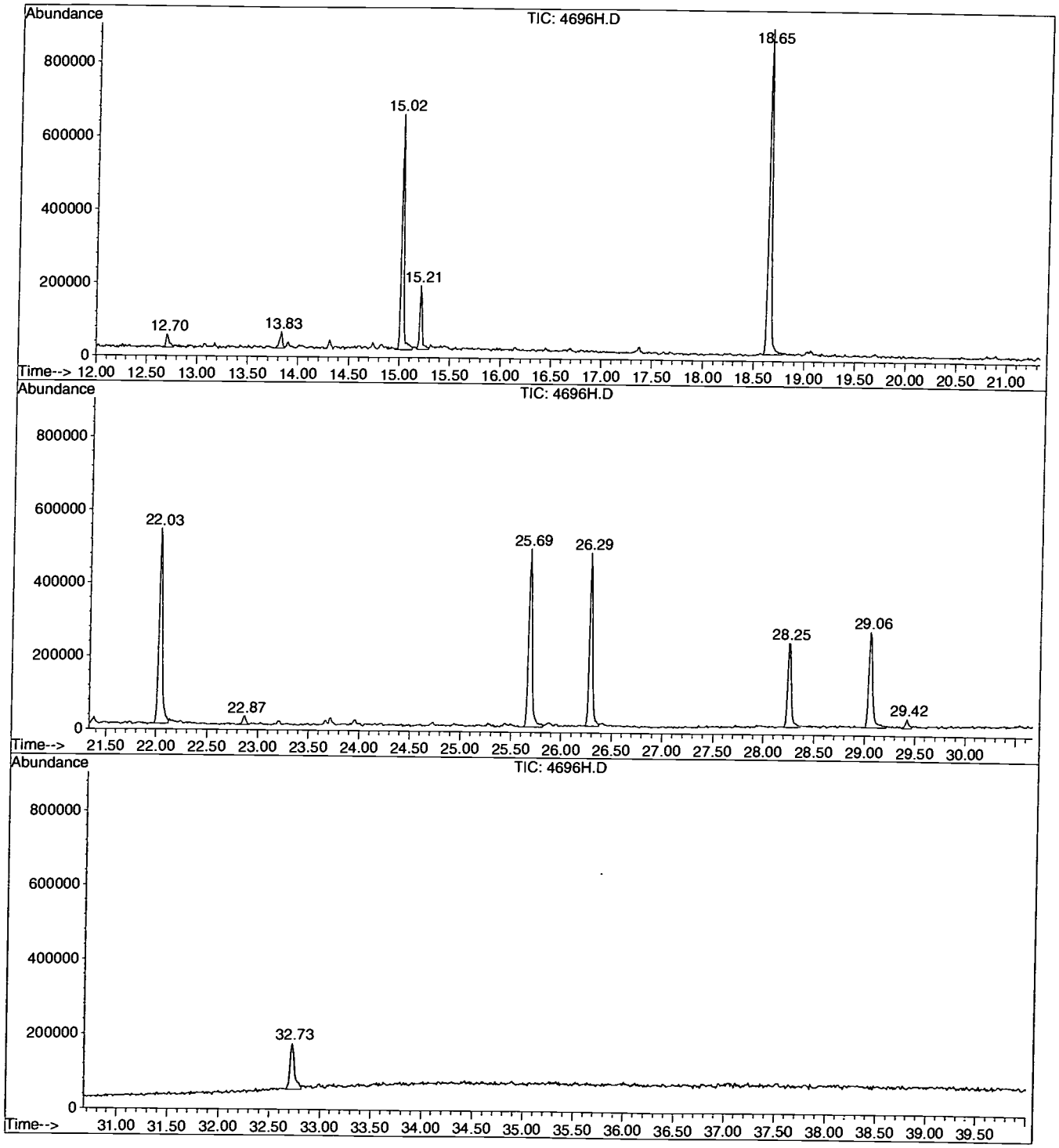
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	raw area	corr. area	corr. % max.	% of total
1	12.704	75	80	87	rBV2	35931	238465	79480	4.47%	0.920%
2	13.833	199	206	210	rBV6	45316	227938	90328	5.07%	1.045%
3	15.025	332	339	351	rBV	642201	1332800	1087771	61.11%	12.586%
4	15.213	356	360	369	rBV	173873	483136	293185	16.47%	3.392%
5	18.654	737	744	759	rBV	886218	2025881	1779998	100.00%	20.595%
6	22.031	1114	1121	1131	rBV2	533354	1428981	1254143	70.46%	14.511%
7	22.874	1205	1215	1220	rVB7	24603	211922	62065	3.49%	0.718%
8	25.687	1518	1529	1544	rBV	486308	1464669	1197268	67.26%	13.853%
9	26.287	1587	1596	1606	rBV	473320	1259700	1049424	58.96%	12.142%
10	28.249	1810	1815	1828	rBV	229760	769316	540232	30.35%	6.251%
11	29.056	1895	1905	1923	rBV2	262583	1101400	758787	42.63%	8.779%
12	29.423	1940	1946	1951	rBV4	26037	204892	59969	3.37%	0.694%
13	32.729	2307	2315	2325	rBV	123115	761760	390149	21.92%	4.514%

Sum of corrected areas: 8642799

4696H.D DRINKWI.M Fri Jun 08 13:09:41 2001

LSC Report - Integrated Chromatogram

File : G:\H060701\4696H.D
Operator : JCM
Acquired : 7 Jun 01 9:39 pm using AcqMethod DRINKW
Instrument : GC/MS Ins
Sample Name: A555261
Misc Info : 1L-1ML
Vial Number: 7
Quant File :DRINKWI.RES (RTE Integrator)



4696H.D DRINKWI.M Fri Jun 08 13:09:42 2001

Library Search Compound Report

Data File : G:\H060701\4696H.D
Acq On : 7 Jun 01 9:39 pm
Sample : A555261
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

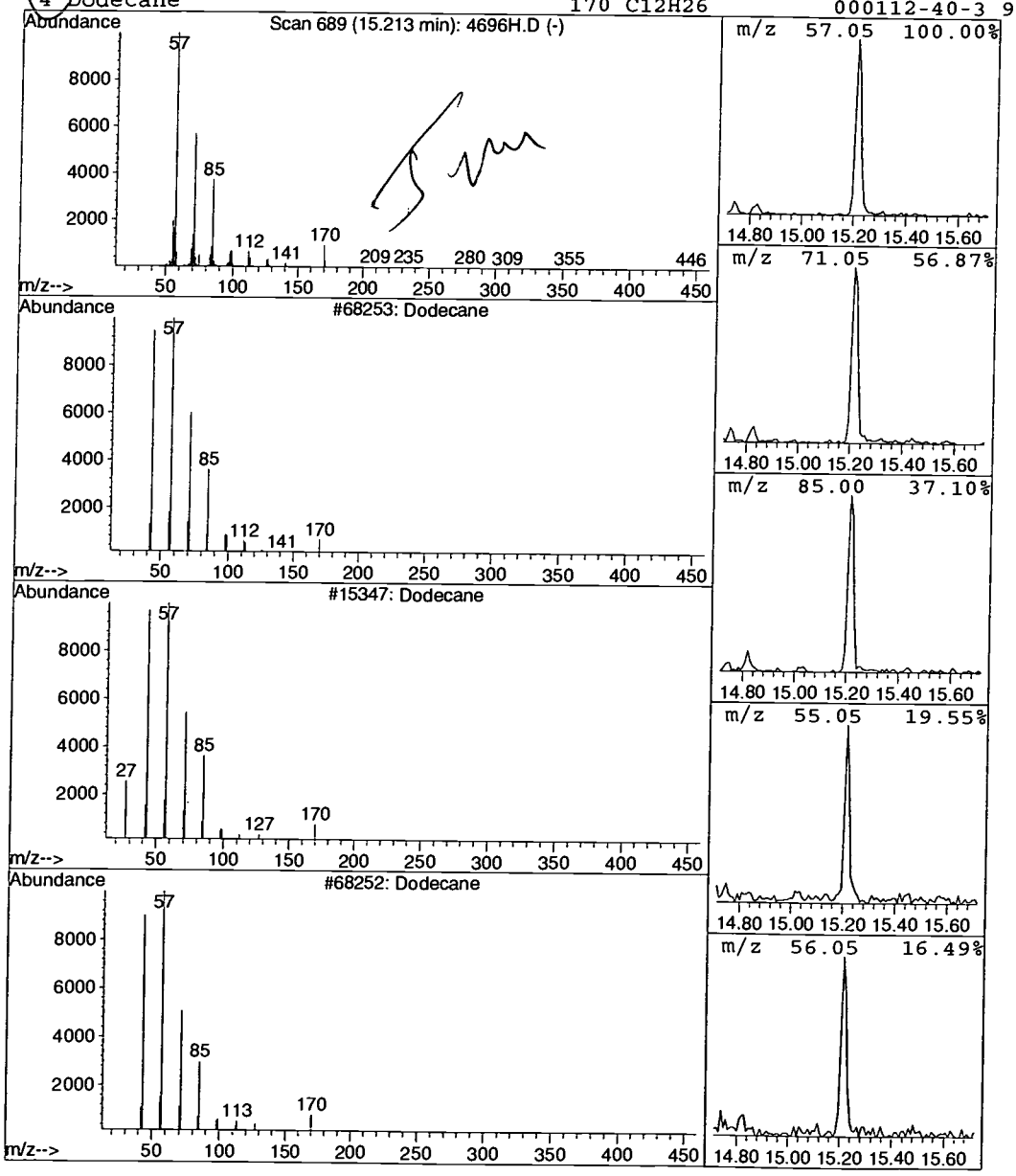
Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 1 Dodecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.21	0.82 ug/ml	293185	ACENAPHTHENE-D10	18.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	95
2	Dodecane	170	C12H26	000112-40-3	93
3	Dodecane	170	C12H26	000112-40-3	90
4	Dodecane	170	C12H26	000112-40-3	90



Library Search Compound Report

Data File : G:\H060701\4696H.D
Acq On : 7 Jun 01 9:39 pm
Sample : A555261
Misc : 1L-1ML
MS Integration Params: RTEINT.P

Vial: 7
Operator: JCM
Inst : GC/MS Ins
Multiplr: 1.00

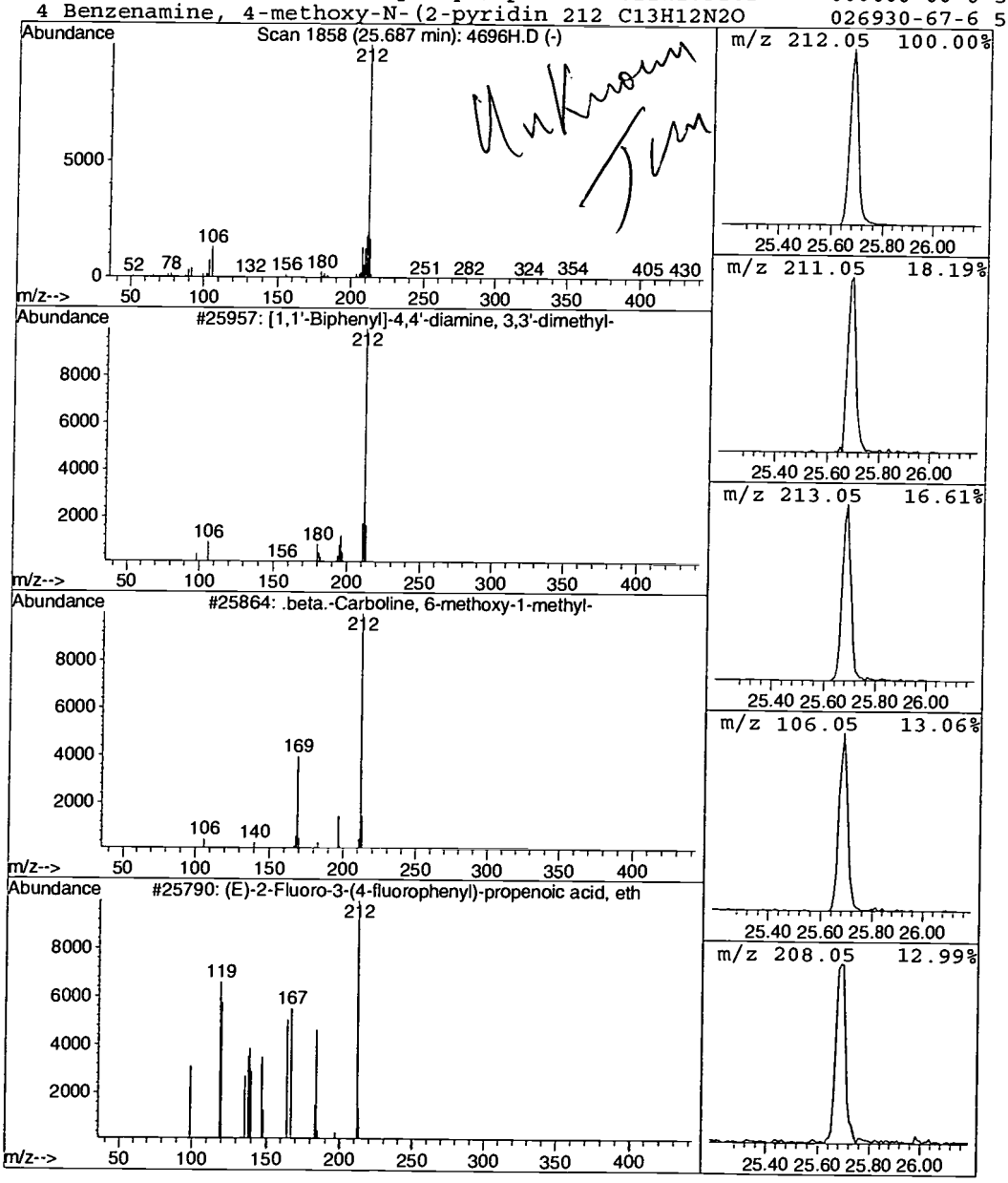
Quant Method : G:\HPCHEM\1\METHODS\DRINKWI.M (RTE Integrator)
Title : DRINKING WATER CALIBRATION
Library : C:\DATABASE\nbs75k.l

****

Peak Number 2 [1,1'-Biphenyl]-4,4'-diamine, Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.69	5.70 ug/ml	1197270	p-Terphenyl-d14	26.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-	212	C14H16N2	000119-93-7	72
2	.beta.-Carboline, 6-methoxy-1-methy	212	C13H12N2O	000000-00-0	64
3	(E)-2-Fluoro-3-(4-fluorophenyl)-pro	212	C11H10F2O2	000000-00-0	55
4	Benzenamine, 4-methoxy-N-(2-pyridin	212	C13H12N2O	026930-67-6	53



Tentatively Identified Compound (LSC) summary

Operator ID: JCM Date Acquired: 7 Jun 01 9:39 pm
Data File: G:\H060701\4696H.D
Name: A555261
Misc: 1L-1ML
Method: G:\HPCHEM\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
Dodecane	15.21	0.8	ug/ml	293185	ISTD01	18.65	1780000	5.0
[1,1'-Biphenyl]-4,4'	25.69	5.7	ug/ml	1197270	ISTD03	26.29	1049420	5.0

4696H.D DRINKWI.M Fri Jun 08 13:09:47 2001

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 #1642

7 June 2001

SAMPLE #A555261

This sample was analyzed for nitrate-nitrite, nitrogen 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 R413926

File Number 01-0601

ION CHROMATOGRAPHY

Instrument # 268

Analyst JMM 1663

Start Date 1-Jun-01
Start Time 14:08

End Date 2-Jun-01
End Time 9:57

Reviewed By [illegible]
Date 6-5-01

Recorded By KSh
Date 6-5-01

-002

Test ID	Sample	Analyt	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
1/375	LFB01 SPI	01-Jun-01 15:06												
		509	1279237	1	2.018			0.10	mg/L		2	101.0		
	CCV L	01-Jun-01 18:15												
		509	625781	1	0.986	0.986		0.10	mg/L		1	98.6		
	CCV H	01-Jun-01 18:33												
		509	7347985	1	9.611	9.61		0.10	mg/L		10	96.1		
1\375	BLA01	01-Jun-01 18:51												
		509	0	1	0.008	< 0.040	BDL	0.10	mg/L					
	A555261	01-Jun-01 19:09												
G300.9		509	489129	1	0.738	0.74		0.10	mg/L					
	DUP A555261	01-Jun-01 19:27												
G300.9		509	474602	1	0.725	0.73		0.10	mg/L				1.4	
	CCV L	01-Jun-01 21:52												
		509	651349	1	1.026	1.03		0.10	mg/L		1	103.0		
	CCV H	01-Jun-01 22:10												
		509	7470399	1	9.785	9.79		0.10	mg/L		10	97.9		
1\375	BLA01	01-Jun-01 22:28												
		509	0	1	0.008	< 0.040	BDL	0.10	mg/L					

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
1\416	BLA01	01-Jun-01 14:08												
	367	F	0	1	0.008		BDL	0.10	mg/L					
	223	Cl	0	1	-0.003		BDL	0.25	mg/L					
	507	NO_2	0	1	0.009		BDL	0.050	mg/L					
	192	Br	0	1	-0.002		BDL	0.050	mg/L					
	508	NO_3	0	1	-0.001		BDL	0.050	mg/L					
	539	HPO_4	0	1	0.029		BDL	0.050	mg/L					
	681	SO_4	0	1	-0.035		BDL	0.25	mg/L					
	CCV L	01-Jun-01 14:26												
	367	F	190153	1	0.499	0.499		0.10	mg/L		0.5	99.8		
	223	Cl	333984	1	1.214	1.21		0.25	mg/L		1.25	96.8		
	507	NO_2	275595	1	0.474	0.474		0.050	mg/L		0.5	94.8		
	192	Br	54731	1	0.478	0.478		0.050	mg/L		0.5	95.6		
	508	NO_3	341719	1	0.497	0.497		0.050	mg/L		0.5	99.4		
	539	HPO_4	88503	1	0.491	0.491		0.050	mg/L		0.5	98.2		
	681	SO_4	478528	1	2.559	2.56		0.25	mg/L		2.5	102.4		
	CCV H	01-Jun-01 14:48												
	367	F	2202947	1	4.732	4.73		0.10	mg/L		5	94.6		
	223	Cl	4115489	1	11.615	11.6		0.25	mg/L		12.5	92.8		
	507	NO_2	3239459	1	4.790	4.79		0.050	mg/L		5	95.8		
	192	Br	580782	1	4.591	4.59		0.050	mg/L		5	91.8		
	508	NO_3	3965959	1	4.652	4.65		0.050	mg/L		5	93.0		
	539	HPO_4	1001642	1	4.350	4.35		0.050	mg/L		5	87.0		*
	681	SO_4	5286777	1	22.892	22.9		0.25	mg/L		25	91.6		
1\416	LFB01 SPI	01-Jun-01 15:06												
G	367	F	406945	1	1.038	1.04		0.10	mg/L		1	104.0		
G	223	Cl	694389	1	2.506	2.51		0.25	mg/L		2.5	100.4		
	507	NO_2	589643	1	1.002			0.050	mg/L		1			
	192	Br	115423	1	0.989			0.050	mg/L		1			
G	508	NO_3	689594	1	1.016	1.02		0.050	mg/L		1	102.0		
	539	HPO_4	208144	1	1.102			0.050	mg/L		1			
G	681	SO_4	959323	1	5.197	5.20		0.25	mg/L		5	104.0		
	A555182	01-Jun-01 15:29												
G310.1	367	F	632351	1	1.501	1.5		0.2	mg/L					
G310.2	223	Cl	370159	1	1.346		BDL	2.5	mg/L					
	507	NO_2	8859	1	0.024			0.050	mg/L					
	192	Br	0	1	-0.002			0.050	mg/L					
G310.5	508	NO_3	18766	1	0.026		BDL	0.1	mg/L					
	539	HPO_4	3635	1	0.048			0.050	mg/L					
G310.7	681	SO_4	4843035	1	21.078	21.		2.5	mg/L					
416	SPI01 A555182	01-Jun-01 15:47												
G	367	F	1016250	1	2.291	2.29		0.2	mg/L	1.35	1	94.0		
G	223	Cl	1091859	1	3.565	3.57		2.5	mg/L	1.21	2.5	94.4		
	507	NO_2	591128	1	0.984			0.050	mg/L		1			
	192	Br	118855	1	1.015			0.050	mg/L		1			
G	508	NO_3	719812	1	1.049	1.05		0.1	mg/L	0.0234	1	102.7		
	539	HPO_4	173091	1	0.933			0.050	mg/L		1			
G	681	SO_4	5516060	1	23.830	23.8		2.5	mg/L	19	5	96.0		
416	DPS01 A555182	01-Jun-01 16:05												
G	367	F	1034490	1	2.329	2.33		0.2	mg/L	1.35	1	98.0	4.2	
G	223	Cl	1093584	1	3.569	3.57		2.5	mg/L	1.21	2.5	94.4	0	
	507	NO_2	594341	1	0.989			0.050	mg/L		1			
	192	Br	115521	1	0.990			0.050	mg/L		1			
G	508	NO_3	720538	1	1.050	1.05		0.1	mg/L	0.0234	1	102.7	0	
	539	HPO_4	202097	1	1.077			0.050	mg/L		1			
G	681	SO_4	5554225	1	23.986	24.0		2.5	mg/L	19	5	100.0	4.1	

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
R1 A555182 01-Jun-01 16:23														
	367	F	644952	1	1.527			0.10	mg/L					
G310.2	223	Cl	369004	1	1.342	1.3		0.25	mg/L					
	507	NO_2	0	1	0.009			0.050	mg/L					
	192	Br	0	1	-0.002			0.050	mg/L					
G310.5	508	NO_3	0	1	-0.001		BDL	0.050	mg/L					
	539	HPO_4	32357	1	0.198			0.050	mg/L					
G310.7	681	SO_4	4782948	1	20.832	21.		0.25	mg/L					
A555183 01-Jun-01 16:41														
G310.1	367	F	150716	1	0.397	0.40		0.2	mg/L					
G310.2	223	Cl	1302276	1	4.125	4.1		2.5	mg/L					
	507	NO_2	0	1	0.009			0.050	mg/L					
	192	Br	5134	1	0.043			0.050	mg/L					
G310.5	508	NO_3	4244	1	0.005		BDL	0.1	mg/L					
	539	HPO_4	0	1	0.029			0.050	mg/L					
	681	SO_4	42881566	1	176.621	HIGH		2.5	mg/L					
A555183 1:5 01-Jun-01 17:00														
	367	F	35438	5	0.497			0.2	mg/L					
	223	Cl	204870	5	3.717			2.5	mg/L					
	507	NO_2	0	5	0.047			0.25	mg/L					
	192	Br	0	5	-0.011			0.25	mg/L					
	508	NO_3	0	5	-0.007			0.1	mg/L					
	539	HPO_4	0	5	0.147			0.25	mg/L					
G310.7	681	SO_4	6981352	5	149.107	150		2.5	mg/L					
A 01-Jun-01 17:20														
	367	F	41195	1	0.114			0.10	mg/L					
	223	Cl	1499187	1	4.649			0.25	mg/L					
	507	NO_2	0	1	0.009			0.050	mg/L					
	192	Br	2721	1	0.022			0.050	mg/L					
	508	NO_3	436874	1	0.636			0.050	mg/L					
	539	HPO_4	0	1	0.029			0.050	mg/L					
	681	SO_4	5348430	1	23.144			0.25	mg/L					
B 01-Jun-01 17:38														
	367	F	88066	1	0.235			0.10	mg/L					
	223	Cl	100527744	1	268.321	HIGH		0.25	mg/L					
	507	NO_2	0	1	0.009			0.050	mg/L					
	192	Br	155437	1	1.299			0.050	mg/L					
	508	NO_3	2492	1	0.002			0.050	mg/L					
	539	HPO_4	2355	1	0.042			0.050	mg/L					
	681	SO_4	46652076	1	192.039	HIGH		0.25	mg/L					
C 01-Jun-01 17:56														
	367	F	32680	1	0.092			0.10	mg/L					
	223	Cl	1768920	1	5.367			0.25	mg/L					
	507	NO_2	0	1	0.009			0.050	mg/L					
	192	Br	12184	1	0.105			0.050	mg/L					
	508	NO_3	3241	1	0.003			0.050	mg/L					
	539	HPO_4	0	1	0.029			0.050	mg/L					
	681	SO_4	11082415	1	46.591			0.25	mg/L					
CCV L 01-Jun-01 18:15														
	367	F	195075	1	0.512	0.512		0.10	mg/L		0.5	102.4		
	223	Cl	333044	1	1.211	1.21		0.25	mg/L		1.25	96.8		
	507	NO_2	287079	1	0.493	0.493		0.050	mg/L		0.5	98.6		
	192	Br	55670	1	0.487	0.487		0.050	mg/L		0.5	97.4		
	508	NO_3	338702	1	0.493	0.493		0.050	mg/L		0.5	98.6		
	539	HPO_4	86071	1	0.479	0.479		0.050	mg/L		0.5	95.8		
	681	SO_4	469844	1	2.512	2.51		0.25	mg/L		2.5	100.4		

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
	CCV H	01-Jun-01 18:33												
	367	F	2288050	1	4.907	4.91		0.10	mg/L		5	98.2		
	223	Cl	4102953	1	11.582	11.6		0.25	mg/L		12.5	92.8		
	507	NO_2	3269610	1	4.834	4.83		0.050	mg/L		5	96.6		
	192	Br	616954	1	4.871	4.87		0.050	mg/L		5	97.4		
	508	NO_3	4078375	1	4.777	4.78		0.050	mg/L		5	95.6		
	539	HPO_4	1135152	1	4.897	4.90		0.050	mg/L		5	98.0		
	681	SO_4	5364055	1	23.208	23.2		0.25	mg/L		25	92.8		
1V416	BLA01	01-Jun-01 18:51												
	367	F	0	1	0.008		BDL	0.10	mg/L					
	223	Cl	0	1	-0.003		BDL	0.25	mg/L					
	507	NO_2	0	1	0.009		BDL	0.050	mg/L					
	192	Br	0	1	-0.002		BDL	0.050	mg/L					
	508	NO_3	0	1	-0.001		BDL	0.050	mg/L					
	539	HPO_4	6605	1	0.064	0.064		0.050	mg/L					
	681	SO_4	0	1	-0.035		BDL	0.25	mg/L					
	A555261	01-Jun-01 19:09												
	367	F	873623	1	1.998			0.10	mg/L					
	223	Cl	1007468	1	3.340			0.25	mg/L					
	507	NO_2	71409	1	0.130			0.050	mg/L					
	192	Br	0	1	-0.002			0.050	mg/L					
	508	NO_3	417720	1	0.608			0.050	mg/L					
	539	HPO_4	0	1	0.029			0.050	mg/L					
	681	SO_4	1298338035	1	5310.320	HIGH		0.25	mg/L					
	DUP A555261	01-Jun-01 19:27												
	367	F	402691	1	1.029			0.10	mg/L					
	223	Cl	862754	1	2.955			0.25	mg/L					
	507	NO_2	107672	1	0.191			0.050	mg/L					
	192	Br	0	1	-0.002			0.050	mg/L					
	508	NO_3	366930	1	0.534			0.050	mg/L					
	539	HPO_4	0	1	0.029			0.050	mg/L					
	681	SO_4	1192266148	1	4876.580	HIGH		0.25	mg/L					
	A554214 1:5	01-Jun-01 19:45												
	367	F	103789	5	1.380			0.50	mg/L					
G310.2	223	Cl	1624199	5	24.911	25.		1.3	mg/L					
	507	NO_2	0	5	0.047			0.25	mg/L					
	192	Br	3450	5	0.140			0.25	mg/L					
	508	NO_3	14656	5	0.100			0.25	mg/L					
	539	HPO_4	71349	5	2.010			0.25	mg/L					
	681	SO_4	1200118	5	30.906			1.3	mg/L					
	A554261 1:5	01-Jun-01 20:03												
	367	F	16084	5	0.248			0.50	mg/L					
	223	Cl	1400287	5	21.930			1.3	mg/L					
	507	NO_2	0	5	0.047			0.25	mg/L					
	192	Br	0	5	-0.011			0.25	mg/L					
	508	NO_3	361604	5	2.631			0.25	mg/L					
	539	HPO_4	54406	5	1.567			0.25	mg/L					
G300.7	681	SO_4	4482172	5	98.010	98.		1.3	mg/L					
375	SPI01 A554261 1:5	01-Jun-01 20:21												
	367	F	426955	5	5.395			0.50	mg/L		5			
	223	Cl	2099936	5	31.244			1.3	mg/L		12.5			
	507	NO_2	595453	5	4.951			0.25	mg/L		5			
	192	Br	115501	5	4.947			0.25	mg/L		5			
	508	NO_3	1054273	5	7.102			0.25	mg/L		5			
	539	HPO_4	160789	5	4.345			0.25	mg/L		5			
G	681	SO_4	5131434	5	111.284	111.		1.3	mg/L	88.2	25	91.2		

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
375	DPS01 A554261 1:5		01-Jun-01 20:39											
	367	F	426683	5	5.392			0.50	mg/L		5			
	223	Cl	2103287	5	31.289			1.3	mg/L		12.5			
	507	NO_2	600276	5	4.985			0.25	mg/L		5			
	192	Br	131325	5	5.560			0.25	mg/L		5			
	508	NO_3	1093790	5	7.322			0.25	mg/L		5			
	539	HPO_4	155184	5	4.199			0.25	mg/L		5			
G	681	SO_4	5073318	5	110.096	110.		1.3	mg/L	88.2	25	87.2	4.5	
	A554262 1:5		01-Jun-01 20:57											
	367	F	27153	5	0.391			0.50	mg/L					
	223	Cl	2019199	5	30.169			1.3	mg/L					
	507	NO_2	14872	5	0.172			0.25	mg/L					
	192	Br	0	5	-0.011			0.25	mg/L					
	508	NO_3	942987	5	6.485			0.25	mg/L					
	539	HPO_4	41363	5	1.227			0.25	mg/L					
G300.7	681	SO_4	7786447	5	165.567	170		1.3	mg/L					
	A554618 1:5		01-Jun-01 21:16											
	367	F	57134	5	0.778			0.50	mg/L					
	223	Cl	442991	5	8.057			1.3	mg/L					
	507	NO_2	1586	5	0.061			0.25	mg/L					
	192	Br	4962	5	0.207			0.25	mg/L					
	508	NO_3	12879	5	0.087			0.25	mg/L					
	539	HPO_4	26439	5	0.837			0.25	mg/L					
G310.7	681	SO_4	4832730	5	105.177	110		2.5	mg/L					
	R1 A554618 1:5		01-Jun-01 21:34											
	367	F	57089	5	0.777			0.50	mg/L					
	223	Cl	395726	5	7.195			1.3	mg/L					
	507	NO_2	0	5	0.047			0.25	mg/L					
	192	Br	0	5	-0.011			0.25	mg/L					
	508	NO_3	13423	5	0.091			0.25	mg/L					
	539	HPO_4	27375	5	0.861			0.25	mg/L					
G310.7	681	SO_4	4512473	5	98.629	99.		1.3	mg/L					
	CCV L		01-Jun-01 21:52											
	367	F	198284	1	0.520	0.520		0.10	mg/L		0.5	104.0		
	223	Cl	348814	1	1.268	1.27		0.25	mg/L		1.25	101.6		
	507	NO_2	301195	1	0.517	0.517		0.050	mg/L		0.5	103.4		
	192	Br	61464	1	0.538	0.538		0.050	mg/L		0.5	107.6		
	508	NO_3	350154	1	0.509	0.509		0.050	mg/L		0.5	101.8		
	539	HPO_4	131787	1	0.718	0.718		0.050	mg/L		0.5	143.6		*
	681	SO_4	469053	1	2.508	2.51		0.25	mg/L		2.5	100.4		
	CCV H		01-Jun-01 22:10											
	367	F	2391209	1	5.120	5.12		0.10	mg/L		5	102.4		
	223	Cl	4316807	1	12.151	12.2		0.25	mg/L		12.5	97.6		
	507	NO_2	3389773	1	5.006	5.01		0.050	mg/L		5	100.2		
	192	Br	609366	1	4.812	4.81		0.050	mg/L		5	96.2		
	508	NO_3	4080626	1	4.779	4.78		0.050	mg/L		5	95.6		
	539	HPO_4	1168283	1	5.032	5.03		0.050	mg/L		5	100.6		
	681	SO_4	5639539	1	24.335	24.3		0.25	mg/L		25	97.2		
1416	BLA01		01-Jun-01 22:28											
	367	F	0	1	0.008		BDL	0.10	mg/L					
	223	Cl	0	1	-0.003		BDL	0.25	mg/L					
	507	NO_2	0	1	0.009		BDL	0.050	mg/L					
	192	Br	0	1	-0.002		BDL	0.050	mg/L					
	508	NO_3	0	1	-0.001		BDL	0.050	mg/L					
	539	HPO_4	30949	1	0.191	0.19		0.050	mg/L					
	681	SO_4	0	1	-0.035		BDL	0.25	mg/L					

Sample Analysis Report

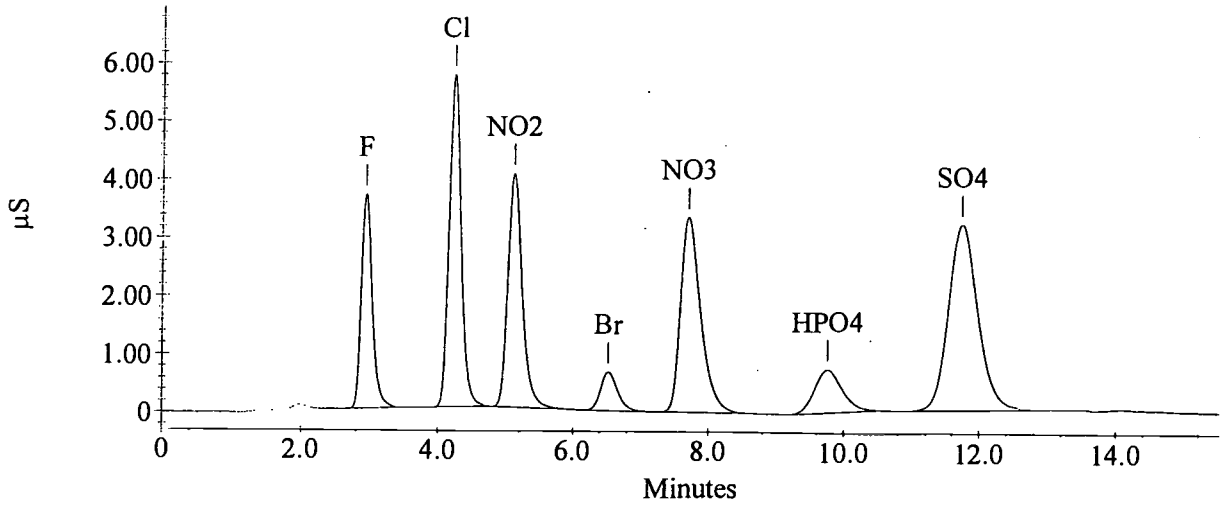
Sample Name : LFB01 SPI
Data File Name : C:\PeakNet51\data\06010101\DATA_004.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 3:06:53 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	0.95	406945	36767
2	Cl	4.23	2.28	694388	57072
3	NO2	5.12	0.95	589643	40124
4	Br	6.53	1.02	115423	6666
5	NO3	7.71	0.91	689594	33476
6	HPO4	9.76	1.03	208144	7387
7	SO4	11.74	4.68	959322	31905

LFB01 SPI



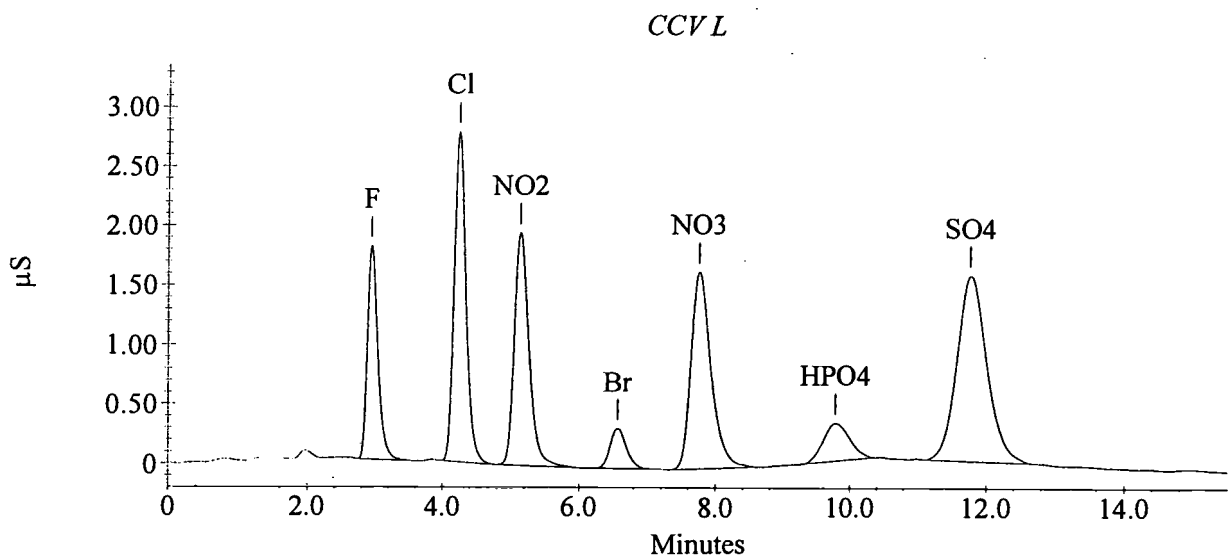
Sample Analysis Report

Sample Name : CCV L
Data File Name : C:\PeakNet51\data\06010101\DATA_014.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 6:15:00 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	0.51	195075	17911
2	Cl	4.25	1.30	333044	27766
3	NO2	5.14	0.52	287079	19518
4	Br	6.56	0.56	55670	3348
5	NO3	7.76	0.52	338702	16492
6	HPO4	9.78	0.53	86071	3150
7	SO4	11.77	2.65	469844	15545



Sample Analysis Report

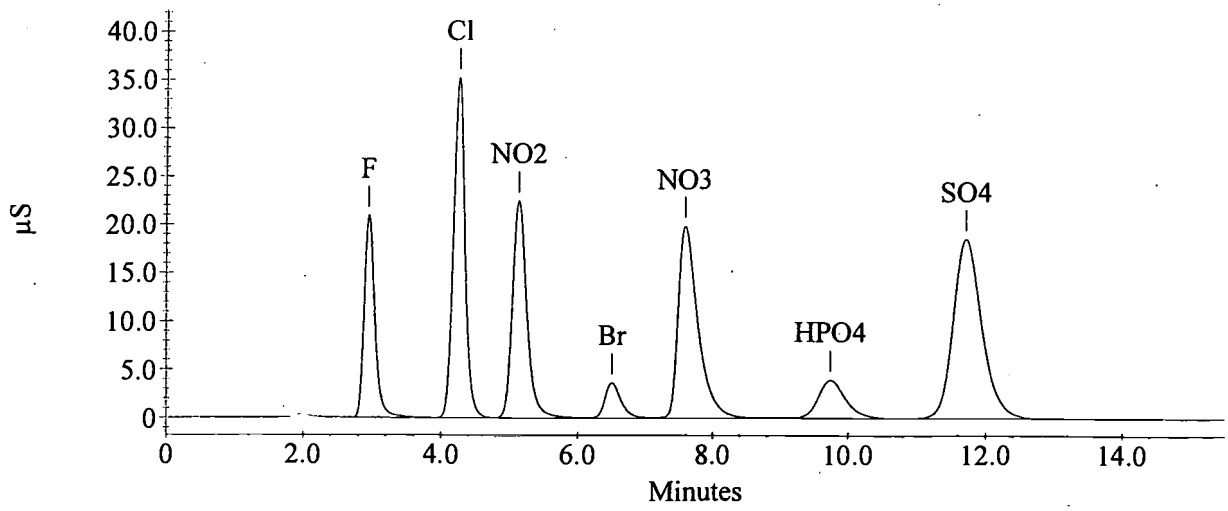
Sample Name : CCV H
Data File Name : C:\PeakNet51\data\06010101\DATA_015.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 6:33:04 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	4.86	2288050	208281
2	Cl	4.26	11.47	4102953	351472
3	NO2	5.13	4.82	3269610	224116
4	Br	6.51	4.87	616954	36466
5	NO3	7.59	4.73	4078375	197995
6	HPO4	9.74	4.87	1135152	39706
7	SO4	11.71	22.97	5364055	185440

CCV H



Sample Analysis Report

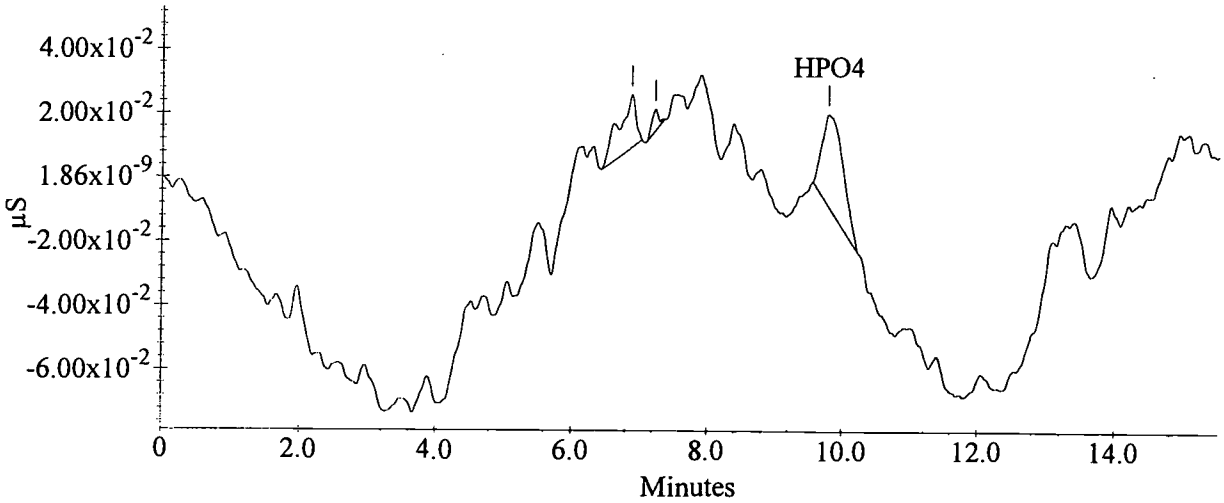
Sample Name : BLA01
Data File Name : C:\PeakNet51\data\06010101\DATA_016.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 6:51:09 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1		6.88	0.00	3025	164
2		7.22	0.00	446	68
3	HPO4	9.78	0.20	6605	286

BLA01



Sample Analysis Report

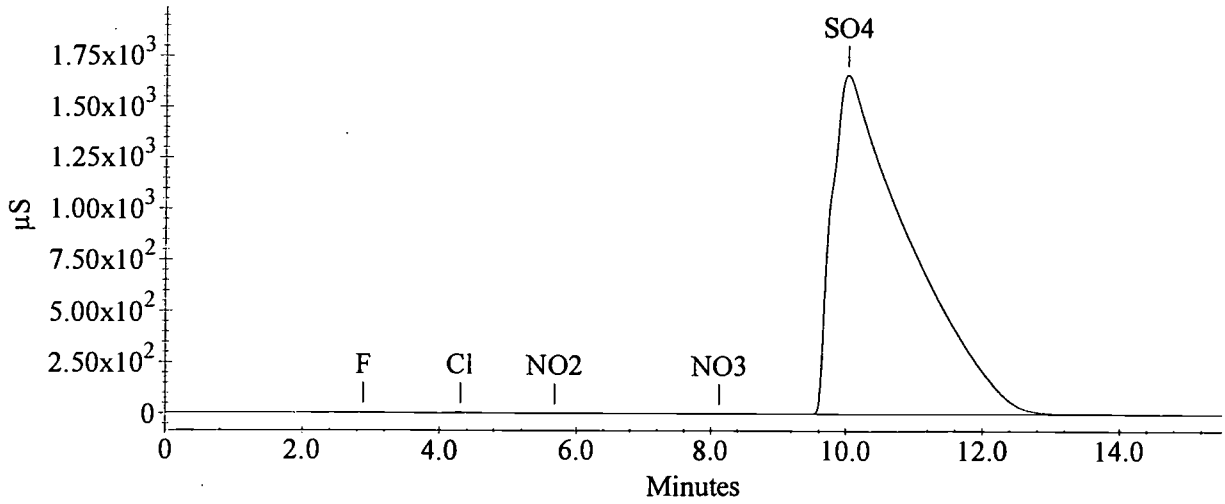
Sample Name : A555261
Data File Name : C:\PeakNet51\data\06010101\DATA_017.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 7:09:12 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.89	1.92	873623	41343
2	Cl	4.30	3.12	1007468	60009
3	NO2	5.68	0.21	71408	9997
4	NO3	8.13	0.60	417720	13904
5	SO4	10.02	5390.05	1298338035	16527989

A555261



Sample Analysis Report

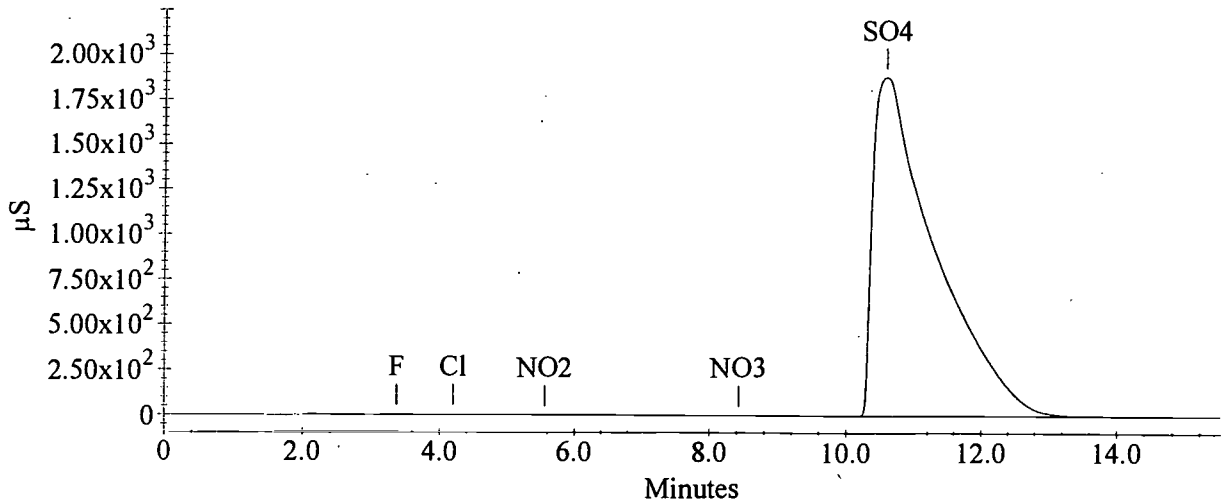
Sample Name : DUP A555261
Data File Name : C:\PeakNet51\data\06010101\DATA_018.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 7:27:22 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	3.37	0.94	402691	34628
2	Cl	4.20	2.73	862754	56583
3	NO2	5.56	0.26	107672	4447
4	NO3	8.43	0.55	366930	16981
5	SO4	10.59	4949.75	1192266148	18728422

DUP A555261



Sample Analysis Report

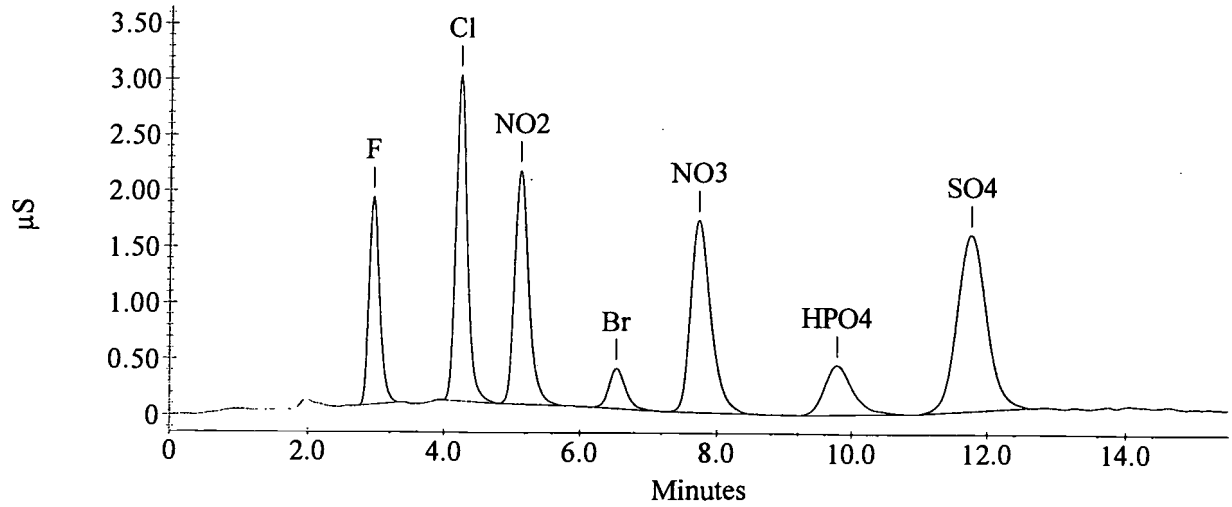
Sample Name : CCV L
Data File Name : C:\PeakNet51\data\06010101\DATA_026.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 9:52:13 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	0.52	198284	18472
2	Cl	4.24	1.34	348814	29082
3	NO2	5.13	0.54	301195	20780
4	Br	6.53	0.61	61464	3577
5	NO3	7.74	0.53	350154	17125
6	HPO4	9.78	0.72	131787	4430
7	SO4	11.76	2.65	469053	15730

CCV L



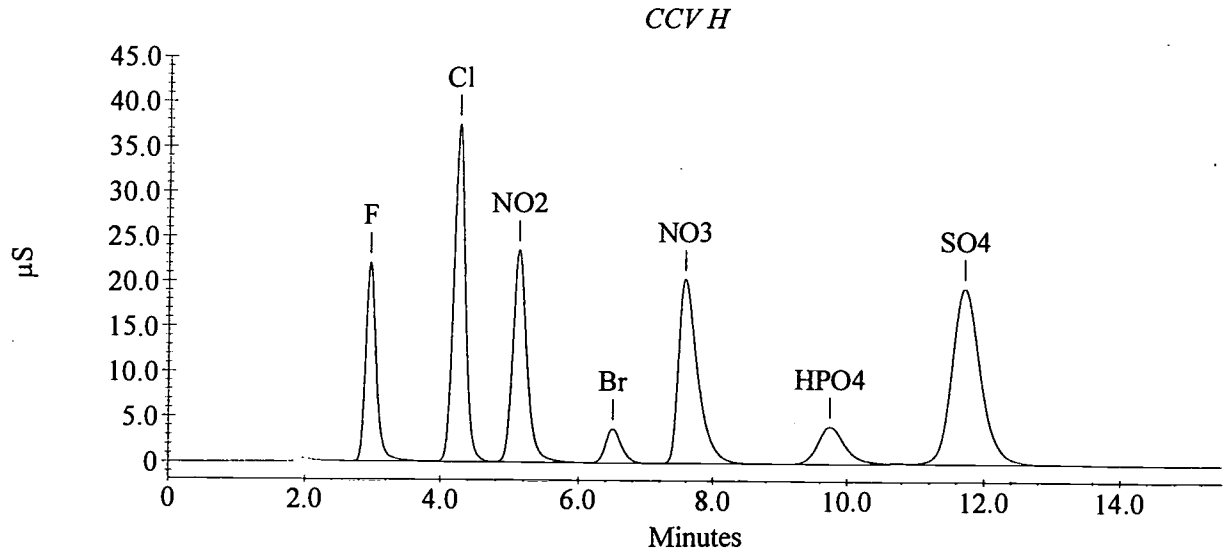
Sample Analysis Report

Sample Name : CCV H
Data File Name : C:\PeakNet51\data\06010101\DATA_027.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 10:10:22 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.96	5.08	2391209	220266
2	Cl	4.26	12.05	4316807	374549
3	NO2	5.13	4.99	3389773	235398
4	Br	6.50	4.81	609366	37369
5	NO3	7.58	4.73	4080626	203653
6	HPO4	9.74	5.00	1168283	40856
7	SO4	11.71	24.11	5639539	194587



Sample Analysis Report

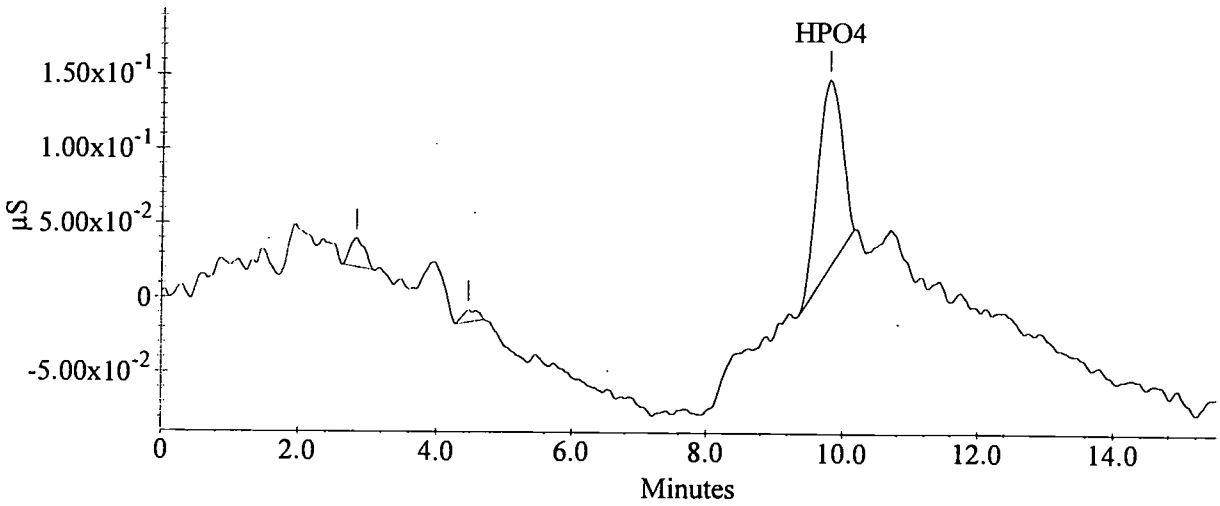
Sample Name : BLA01
Data File Name : C:\PeakNet51\data\06010101\DATA_028.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 6/1/01 10:28:31 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1		2.83	0.00	2813	193
2		4.46	0.00	1214	82
3	HPO4	9.79	0.30	30949	1267

BLA01



Run Number _____

File Number 01-0530

ION CHROMATOGRAPHY

Instrument # 268

Analyst JMM 1663

Start Date 30-May-01
Start Time 13:16

End Date 30-May-01
End Time 20:17

Reviewed By _____
Date _____

Recorded By _____
Date _____

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
	AUTOCAL1 30-May-01 13:16													
	367	F	0	1	0.008			0.10	mg/L					
	223	Cl	0	1	-0.003			0.25	mg/L					
	507	NO_2	0	1	0.009			0.050	mg/L					
	192	Br	0	1	-0.002			0.050	mg/L					
	508	NO_3	0	1	-0.001			0.050	mg/L					
	539	HPO_4	0	1	0.029			0.050	mg/L					
	681	SO_4	0	1	-0.035			0.25	mg/L					
	AUTOCAL2 30-May-01 13:34													
	367	F	36892	1	0.103			0.10	mg/L					
	223	Cl	69079	1	0.248			0.25	mg/L					
	507	NO_2	55695	1	0.103			0.050	mg/L					
	192	Br	11663	1	0.100			0.050	mg/L					
	508	NO_3	70879	1	0.102			0.050	mg/L					
	539	HPO_4	12530	1	0.095			0.050	mg/L					
	681	SO_4	111035	1	0.567			0.25	mg/L					
	AUTOCAL3 30-May-01 13:52													
	367	F	69401	1	0.187			0.10	mg/L					
	223	Cl	144081	1	0.522			0.25	mg/L					
	507	NO_2	106299	1	0.188			0.050	mg/L					
	192	Br	23127	1	0.201			0.050	mg/L					
	508	NO_3	137151	1	0.199			0.050	mg/L					
	539	HPO_4	26306	1	0.167			0.050	mg/L					
	681	SO_4	192550	1	1.009			0.25	mg/L					
	AUTOCAL4 30-May-01 19:54													
	367	F	190246	1	0.499			0.10	mg/L					
	223	Cl	337264	1	1.226			0.25	mg/L					
	507	NO_2	287922	1	0.494			0.050	mg/L					
	192	Br	57515	1	0.503			0.050	mg/L					
	508	NO_3	344609	1	0.501			0.050	mg/L					
	539	HPO_4	91702	1	0.508			0.050	mg/L					
	681	SO_4	456711	1	2.441			0.25	mg/L					
	AUTOCAL5 30-May-01 17:34													
	367	F	385220	1	0.993			0.10	mg/L					
	223	Cl	688802	1	2.492			0.25	mg/L					
	507	NO_2	590889	1	1.005			0.050	mg/L					
	192	Br	113937	1	0.977			0.050	mg/L					
	508	NO_3	685925	1	1.012			0.050	mg/L					
	539	HPO_4	186073	1	1.011			0.050	mg/L					
	681	SO_4	932259	1	5.086			0.25	mg/L					
	AUTOCAL6 30-May-01 17:52													
	367	F	795613	1	1.837			0.10	mg/L					
	223	Cl	1493469	1	4.634			0.25	mg/L					
	507	NO_2	1225805	1	1.896			0.050	mg/L					
	192	Br	231554	1	1.888			0.050	mg/L					
	508	NO_3	1459093	1	1.870			0.050	mg/L					
	539	HPO_4	397201	1	1.876			0.050	mg/L					
	681	SO_4	1964380	1	9.306			0.25	mg/L					
	AUTOCAL7 30-May-01 18:10													
	367	F	2278951	1	4.889			0.10	mg/L					
	223	Cl	4211858	1	11.872			0.25	mg/L					
	507	NO_2	3339623	1	4.934			0.050	mg/L					
	192	Br	638054	1	5.034			0.050	mg/L					
	508	NO_3	4029246	1	4.722			0.050	mg/L					
	539	HPO_4	1090919	1	4.715			0.050	mg/L					
	681	SO_4	5458186	1	23.593			0.25	mg/L					

TestID	Sample	Parm	Area	Dil'n	Conc.	Result	RQL	DL	Units	Samp	Spike	Rec	RPD	#
AUTOCAL8 30-May-01 18:28														
	367	F	4802607	1	10.080	HIGH		0.10	mg/L					
	223	Cl	9271928	1	25.345			0.25	mg/L					
	507	NO_2	6899937	1	10.052			0.050	mg/L					
	192	Br	1280210	1	10.005	HIGH		0.050	mg/L					
	508	NO_3	8916236	1	10.146			0.050	mg/L					
	539	HPO_4	2417986	1	10.148			0.050	mg/L					
	681	SO_4	12097259	1	50.741			0.25	mg/L					
ICV01 30-May-01 20:17														
	367	F	1819497	1	3.944	3.94		0.10	mg/L		4	98.5		
	223	Cl	4081570	1	11.525	11.5		0.25	mg/L		12	95.8		
	507	NO_2	2696467	1	4.010	4.01		0.050	mg/L		4	100.3		
	192	Br	504364	1	4.000	4.00		0.050	mg/L		4	100.0		
	508	NO_3	3160215	1	3.758	3.76		0.050	mg/L		4	94.0		
	539	HPO_4	835326	1	3.669	3.67		0.050	mg/L		4	91.8		
	681	SO_4	4193996	1	18.424	18.4		0.25	mg/L		20	92.0		

Date Time Collected:	Dilution Factor:	Sample Name:	F Peak Ar	Cl Peak A	NO2 Pea	Br Peak A	NO3 Pea	HPO4 Pe	SO4 Peak
5/30/01 13:16	1	AUTOCAL1	0	0	0	0	0	0	0
5/30/01 13:34	1	AUTOCAL2	36892.3	69079	55694.8	11662.9	70879.2	12530.2	111034.8
5/30/01 13:52	1	AUTOCAL3	69401	144081.4	106299	23127.3	137151.2	26306	192549.9
5/30/01 19:54	1	AUTOCAL4	190246	337263.5	287922.4	57514.6	344608.8	91701.5	456710.9
5/30/01 17:34	1	AUTOCAL5	385219.5	688801.9	590889.4	113936.8	685924.8	186072.9	932258.8
5/30/01 17:52	1	AUTOCAL6	795613.2	1493469	1225805	231553.9	1459093	397200.9	1964380
5/30/01 18:10	1	AUTOCAL7	2278951	4211858	3339623	638054.4	4029246	1090919	5458186
5/30/01 18:28	1	AUTOCAL8	4802607	9271928	6899937	1280210	8916236	2417986	12097259
		low correl	**0.9998**	**0.9999**	**0.9998**	**1.0000**	**1.0000**	**0.9984**	**0.9997**
		std calc	0.008	-0.003	0.009	-0.002	-0.001	0.029	-0.035
			0.103	0.248	0.103	0.100	0.102	0.095	0.567
			0.187	0.522	0.188	0.201	0.199	0.167	1.009
			0.499	1.226	0.494	0.503	0.501	0.508	2.441
		std % rec	**103.00**	**99.20**	**103.00**	**100.00**	**102.00**	**95.00**	**113.40**
			93.50	**104.40**	**94.00**	**100.50**	**99.50**	**83.50**	**100.90**
			99.80	**98.08**	**98.80**	**100.60**	**100.20**	**101.60**	**97.64**
Date Time Collected:	Dilution Factor:	Sample Name:	F Peak Ar	Cl Peak A	NO2 Pea	Br Peak A	NO3 Pea	HPO4 Pe	SO4 Peak
5/30/01 13:16	1	AUTOCAL1	0	0	0	0	0	0	0
5/30/01 17:34	1	AUTOCAL5	385219.5	688801.9	590889.4	113936.8	685924.8	186072.9	932258.8
5/30/01 17:52	1	AUTOCAL6	795613.2	1493469	1225805	231553.9	1459093	397200.9	1964380
5/30/01 18:10	1	AUTOCAL7	2278951	4211858	3339623	638054.4	4029246	1090919	5458186
5/30/01 18:28	1	AUTOCAL8	4802607	9271928	6899937	1280210	8916236	2417986	12097259
		high correl	**0.9993**	**0.9987**	**0.9997**	**0.9998**	**0.9986**	**0.9986**	**0.9986**
	5	**std calc**	**0.99**	**2.49**	**0.98**	**0.98**	**1.01**	**1.01**	**5.09**
	6		**1.84**	**4.63**	**1.90**	**1.89**	**1.87**	**1.88**	**9.31**
	7		**4.89**	**11.87**	**4.93**	**5.03**	**4.72**	**4.72**	**23.59**
	8		**10.08**	**25.34**	**10.05**	**10.01**	**10.15**	**10.15**	**50.74**
	5	**std % rec**	**99.00**	**99.60**	**98.00**	**98.00**	**101.00**	**101.00**	**101.80**
	6		**92.00**	**92.60**	**95.00**	**94.50**	**93.50**	**94.00**	**93.10**
	7		**97.80**	**94.96**	**98.60**	**100.60**	**94.40**	**94.40**	**94.36**
	8		**100.80**	**101.36**	**100.50**	**100.10**	**101.50**	**101.50**	**101.48**

Calibration Date/Time May 30, 2001 13:16 to May 30, 2001 18:28

	AUTOCAL 1	AUTOCAL 2	AUTOCAL 3	AUTOCAL 4	AUTOCAL 5	AUTOCAL 6	AUTOCAL 7	AUTOCAL 8
F Peak Area	0	36892	69401	190246	385220	795613	2278951	4802607
Cl Peak Are	0	69079	144081	337264	688802	1493469	4211858	9271928
NO2 Peak A	0	55695	106299	287922	590889	1225805	3339623	6899937
Br Peak Are	0	11663	23127	57515	113937	231554	638054	1280210
NO3 Peak A	0	70879	137151	344609	685925	1459093	4029246	8916236
HPO4 Peak	0	12530	26306	91702	186073	397201	1090919	2417986
SO4 Peak A	0	111035	192550	456711	932259	1964380	5458186	12097259

	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	2.5814e-06	0.00802	0.99981
Cl	3.6452e-06	-0.00345	0.99986
NO_2	1.6841e-06	0.00944	0.99978
Br	8.7822e-06	-0.00225	0.99999
NO_3	1.4590e-06	-0.00142	0.99999
HPO_4	5.2221e-06	0.02932	0.99842
SO_4	5.4219e-06	-0.03538	0.99970

High Calibration Curve Autocal 1,5 - 8

Parameter	Slope	Intercept	Cor. Coef
F	2.0572e-06	0.20060	0.99934
Cl	2.6626e-06	0.65756	0.99867
NO_2	1.4373e-06	0.13429	0.99972
Br	7.7408e-06	0.09535	0.99982
NO_3	1.1098e-06	0.25041	0.99863
HPO_4	4.0936e-06	0.24964	0.99861
SO_4	4.0891e-06	1.27384	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)

Modified 11/18/98 sab

Calibration Update Report

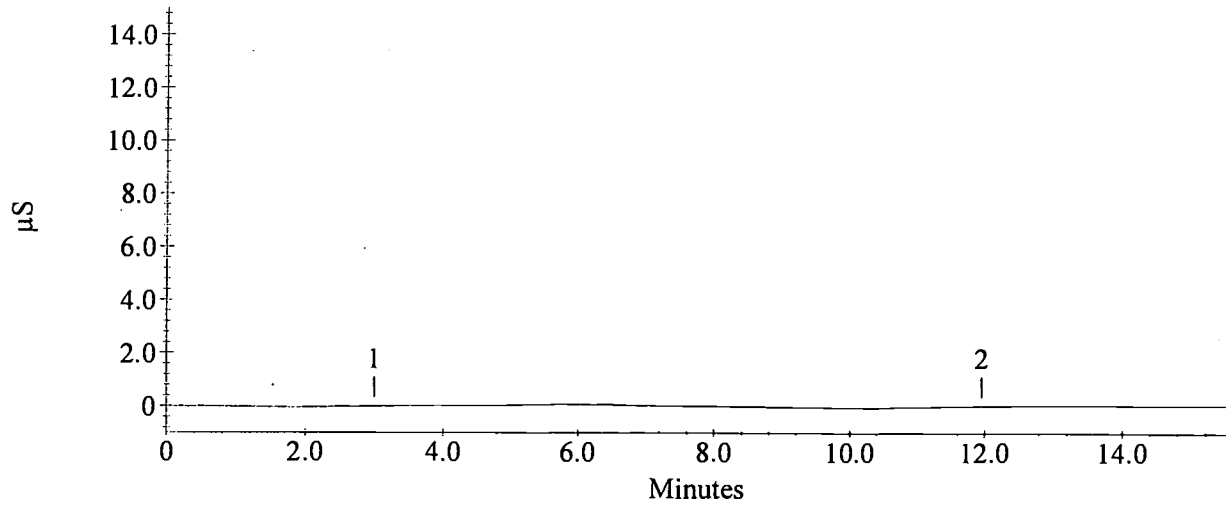
Sample Name : AUTOCAL1
Data File Name : C:\PeakNet51\data\05300101\DATA_001.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 1:16:30 PM
Calibration Date : 5/30/01 8:21:22 PM
System Operator : JMM-1663

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1		2.99			
	Cl				
	NO2				
	Br				
	NO3				
	HPO4				
	SO4				

AUTOCAL1



Calibration Update Report

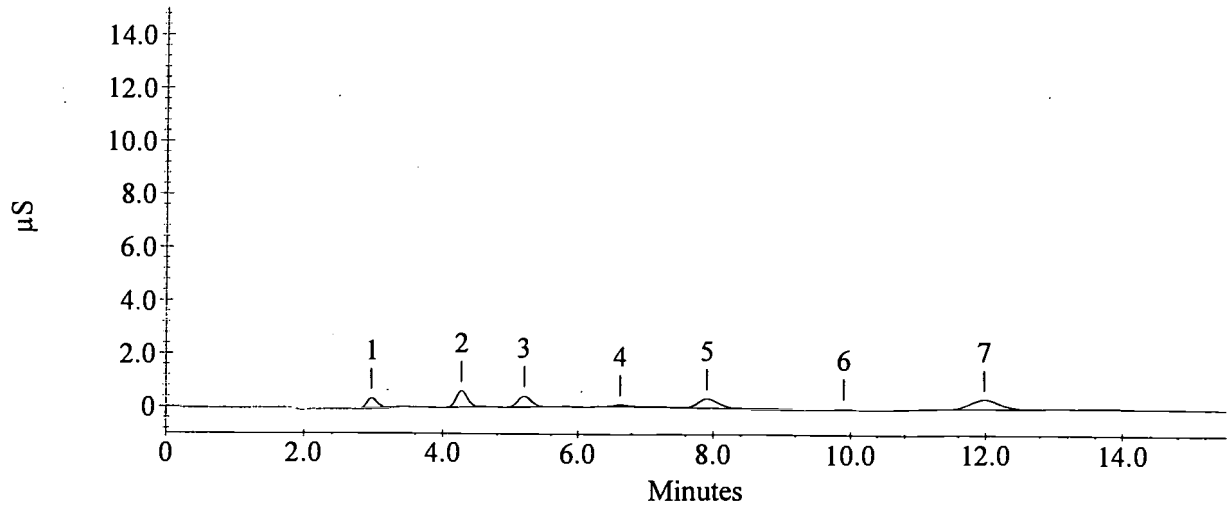
Sample Name : AUTOCAL2
Data File Name : C:\PeakNet51\data\05300101\DATA_002.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 1:34:40 PM
Calibration Date : 5/30/01 8:21:55 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	2.97	65761	36892	36892
2	Cl	4.27	61932	69079	69079
3	NO2	5.19	56336	55695	55695
4	Br	6.63	13610	11663	11663
5	NO3	7.91	74723	70879	70879
6	HPO4	9.90	11417	12530	12530
7	SO4	11.98	122702	111035	111035

AUTOCAL2



Calibration Update Report

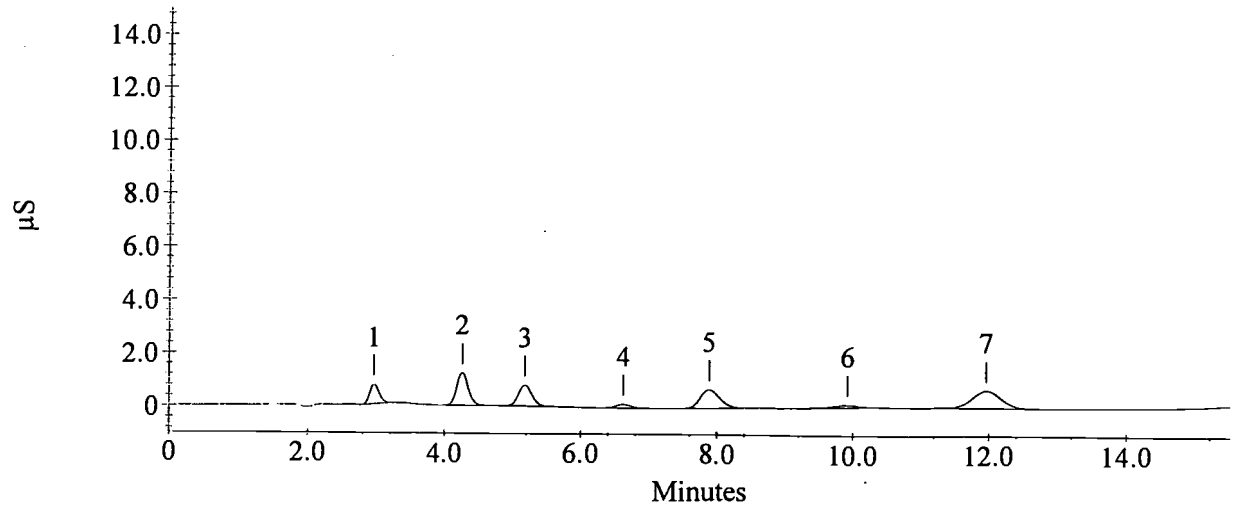
Sample Name : AUTOCAL3
Data File Name : C:\PeakNet51\data\05300101\DATA_003.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 1:52:45 PM
Calibration Date : 5/30/01 8:22:25 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	2.96	92018	69401	69401
2	Cl	4.26	126835	144081	144081
3	NO2	5.18	115635	106299	106299
4	Br	6.62	26295	23127	23127
5	NO3	7.88	141208	137151	137151
6	HPO4	9.92	35517	26306	26306
7	SO4	11.96	209957	192550	192550

AUTOCAL3



Calibration Update Report

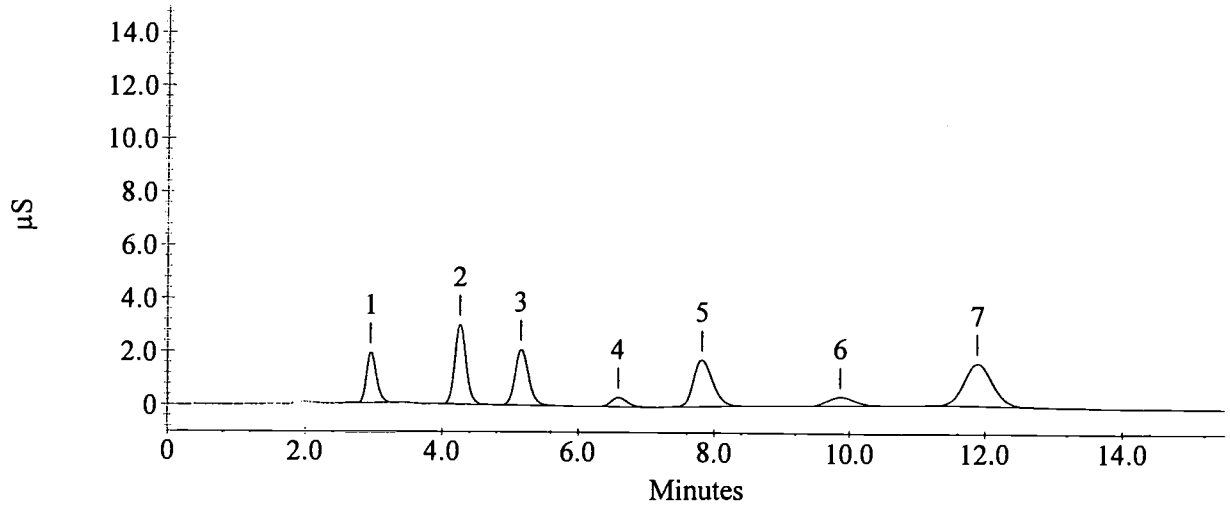
Sample Name : AUTOCAL4
Data File Name : C:\PeakNet51\data\05300101\DATA_004.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 7:54:47 PM
Calibration Date : 5/30/01 8:22:43 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	226931	190246	190246
2	Cl	4.26	316147	337263	337263
3	NO2	5.16	292057	287922	287922
4	Br	6.59	10805	57515	57515
5	NO3	7.82	408346	344609	344609
6	HPO4	9.87	76487	91701	91701
7	SO4	11.89	509565	456711	456711

AUTOCAL4



Calibration Update Report

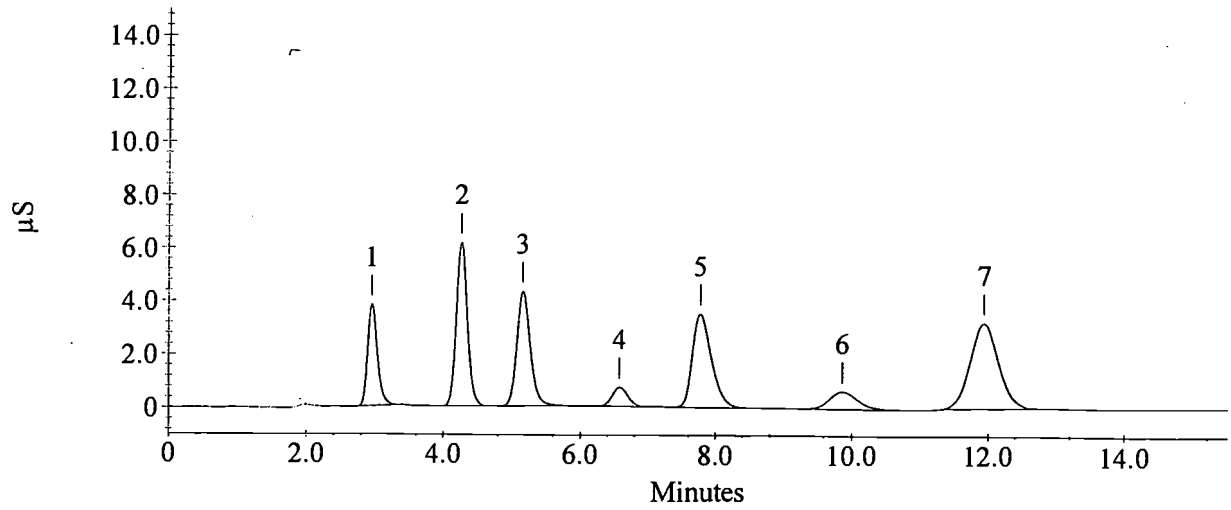
Sample Name : AUTOCAL5
Data File Name : C:\PeakNet51\data\05300101\DATA_005.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 5:34:28 PM
Calibration Date : 5/30/01 8:23:00 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	449997	385219	385219
2	Cl	4.26	667954	688802	688802
3	NO2	5.16	629061	590889	590889
4	Br	6.58	117762	113937	113937
5	NO3	7.78	731158	685925	685925
6	HPO4	9.87	485694	186073	186073
7	SO4	11.94	1102308	932259	932259

AUTOCAL5



Calibration Update Report

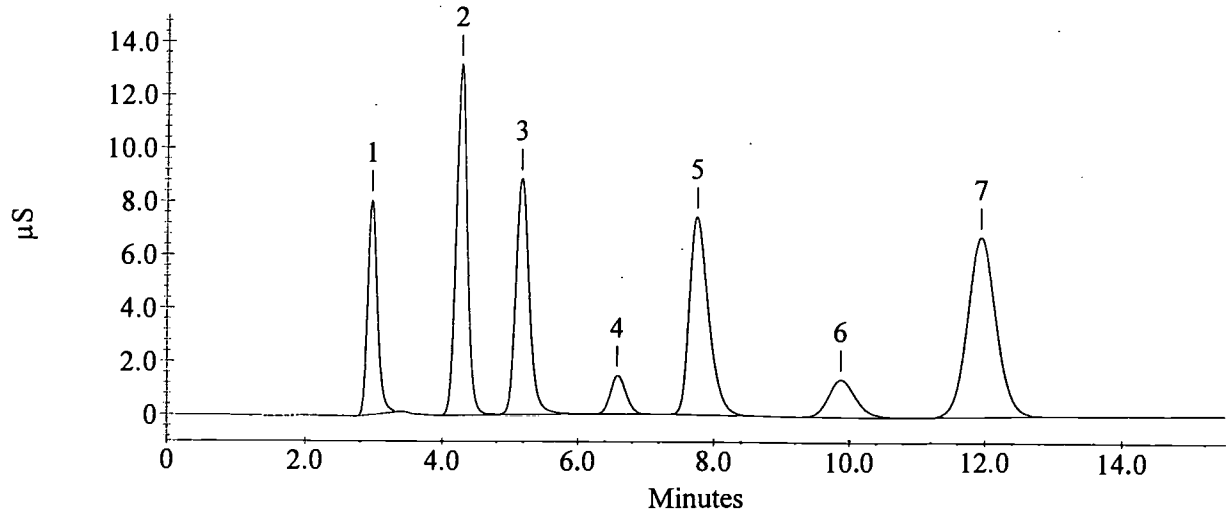
Sample Name : AUTOCAL6
Data File Name : C:\PeakNet51\data\05300101\DATA_006.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 5:52:35 PM
Calibration Date : 5/30/01 8:23:15 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	2.97	1189041	795613	795613
2	Cl	4.27	1526456	1493469	1493469
3	NO2	5.17	1267208	1225805	1225805
4	Br	6.58	482157	231554	231554
5	NO3	7.75	1663438	1459093	1459093
6	HPO4	9.87	526721	397201	397201
7	SO4	11.94	2156929	1964380	1964380

AUTOCAL6



Calibration Update Report

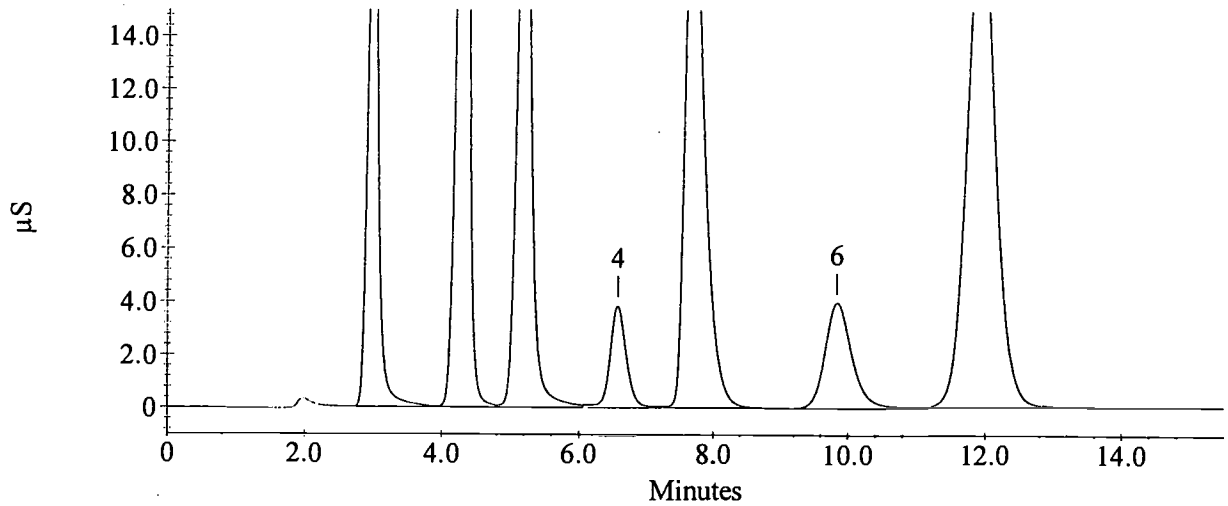
Sample Name : AUTOCAL7
Data File Name : C:\PeakNet51\data\05300101\DATA_007.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 6:10:39 PM
Calibration Date : 5/30/01 8:23:38 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	2.97	2938213	2278951	2278951
2	Cl	4.29	4423122	4211858	4211858
3	NO2	5.17	3927172	3339623	3339623
4	Br	6.57	747477	638054	638054
5	NO3	7.67	4469275	4029246	4029246
6	HPO4	9.84	1191288	1090919	1090919
7	SO4	11.90	5978604	5458186	5458186

AUTOCAL7



Calibration Update Report

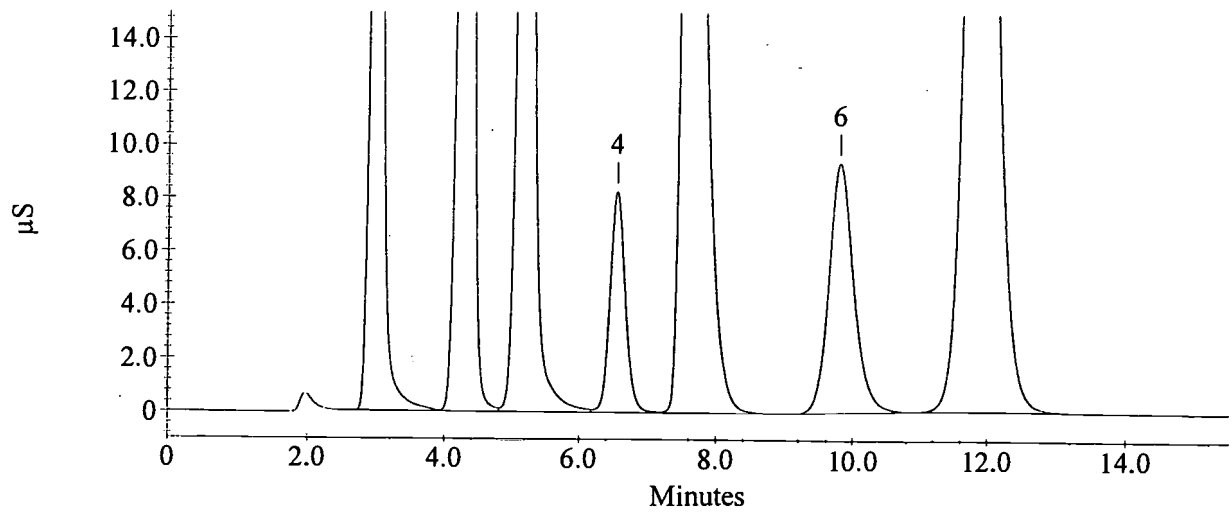
Sample Name : AUTOCAL8
Data File Name : C:\PeakNet51\data\05300101\DATA_008.DXD

Method File Name : C:\peaknet51\method\as14_an1.met
Schedule File Name : c:\peaknet51\schedule\05300101.sch
Date Time Collected : 5/30/01 6:28:41 PM
Calibration Date : 5/30/01 8:23:51 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	2.98	4982983	4802607	4802607
2	Cl	4.31	9430242	9271928	9271928
3	NO2	5.19	11579559	6899937	6899937
4	Br	6.55	8428466	1280210	1280210
5	NO3	7.58	4216	8916236	8916236
6	HPO4	9.80	2717606	2417986	2417986
7	SO4	11.84	2844557	12097259	12097259

AUTOCAL8



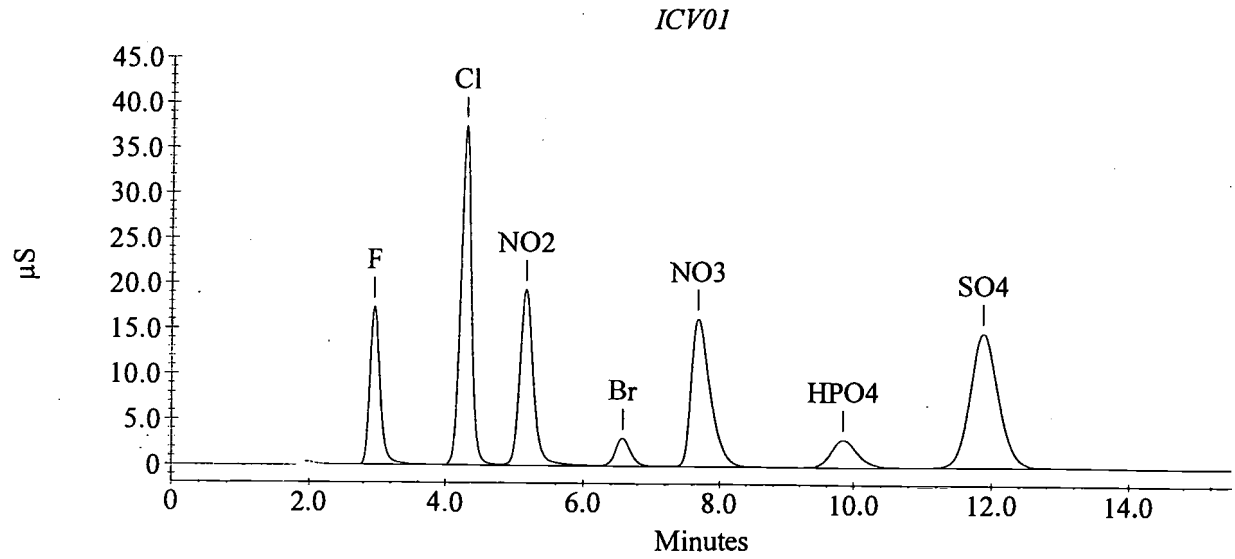
Sample Analysis Report

Sample Name : ICV01
Data File Name : C:\PeakNet51\data\05300101\DATA_009.DXD

Method File Name : c:\peaknet51\method\as14_an1.met
Date Time Collected : 5/30/01 8:17:53 PM
System Operator : JMM-1663

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mg/l)	Peak Area	Peak Height
1	F	2.96	3.89	1819497	173670
2	Cl	4.29	11.41	4081570	373929
3	NO2	5.17	3.99	2696467	193541
4	Br	6.57	3.97	504364	30453
5	NO3	7.68	3.70	3160215	161937
6	HPO4	9.84	3.58	835326	30265
7	SO4	11.87	18.05	4193996	147387



HERITAGE ENVIRONMENTAL SERVICES, LLC

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CASE NARRATIVE

IDEM-Office of Water Management
General Organics PACKET1653
HPLC
22 June 2001

Sample: A555261 DK27345

This sample was analyzed for carbofuran and oxamyl using method EPA531.1 REV. 3.1. A Waters HPLC equipped with a fluorescence detector was used for the analysis. A Waters Carbamate Analysis Column was used for the separation of the target compounds. The sample was analyzed according to normal procedures and all data quality acceptance criteria were satisfied.

Heritage Environmental Services
Limited Liability Company

Andrea L. Sauerland

Andrea L. Sauerland
HPLC Analyst

Recycled Paper

Heritage Environmental Services
HPLC

A555261

Method : EPA 531.1 REV. 3.1 Meth#: 251 **Test Code O605.0.0**
Sample Description : DK27345 Analyst #: 287
Submitter : IDEM - OFFICE OF WATER MANAGEMENT File : _____ Date/Time : 6/13/01 21:57
Instrument # : 100 Channel # : 1 Dilution Factor 1 DL Multiplier 1

Prep: Initial Weight/Volume - Final Volume -

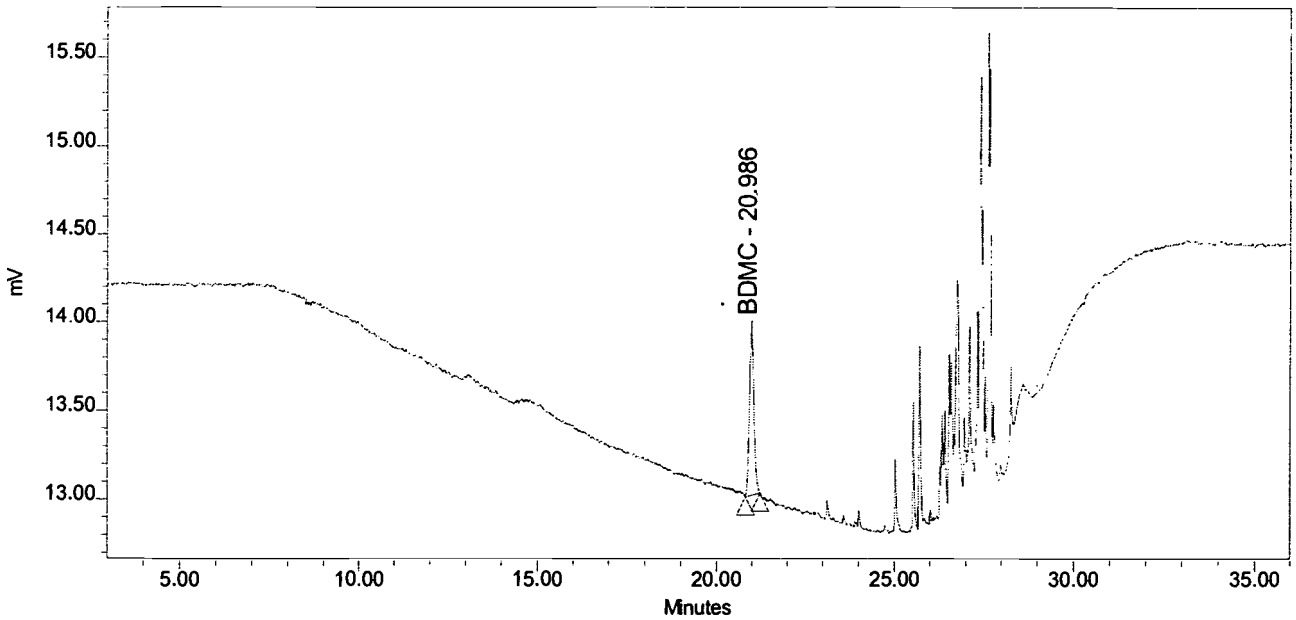
PRM	Parameter	Extract	Result	Limit	Units	Flag
214	CARBOFURAN		BDL	4.0	ug/L	
813	OXAMYL		BDL	20.	ug/L	
1804	...					
971	SURROGATE RECOVERY					
972	----------					
2950	4-BROMO-3,5-DIMETHYLPHENYL N-METHYLCARB		11.3	113	~~Percent~~	% rec

Reviewed : SAB Date : 6/15/1

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	A555261	Date Acquired	6/13/2001 9:57:51 PM
Sample Type	Unknown	Acq Method Set	carbamate_dwms
Vial	17	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



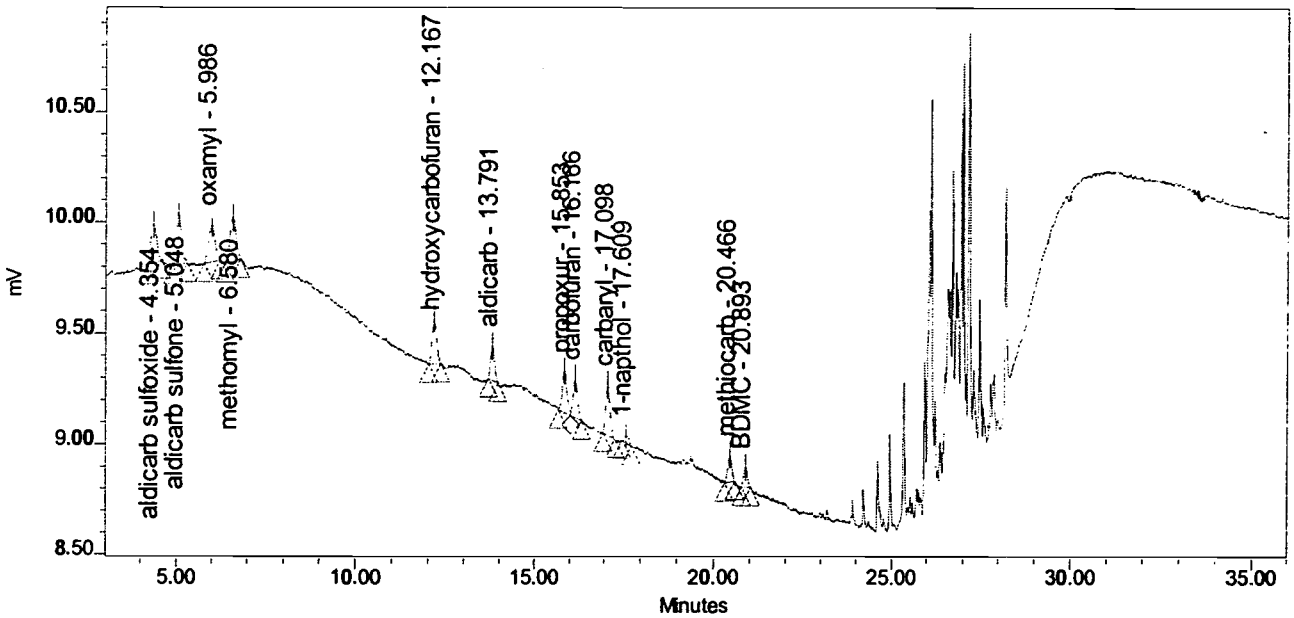
Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.429				
2	aldicarb sulfone	5.144				
3	oxamyl	6.098				
4	methomyl	6.695				
5	hydroxycarbofuran	12.254				
6	aldicarb	13.884				
7	propoxur	15.995				
8	carbofuran	16.299				
9	carbaryl	17.220				
10	1-napthol	17.755				
11	methiocarb	20.625				
12	BDMC	20.986	8069	912	11.347	UG/L
None						

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	L-1	Date Acquired	6/13/2001 10:53:48 AM
Sample Type	Standard	Acq Method Set	carbamate_dwms
Vial	1	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



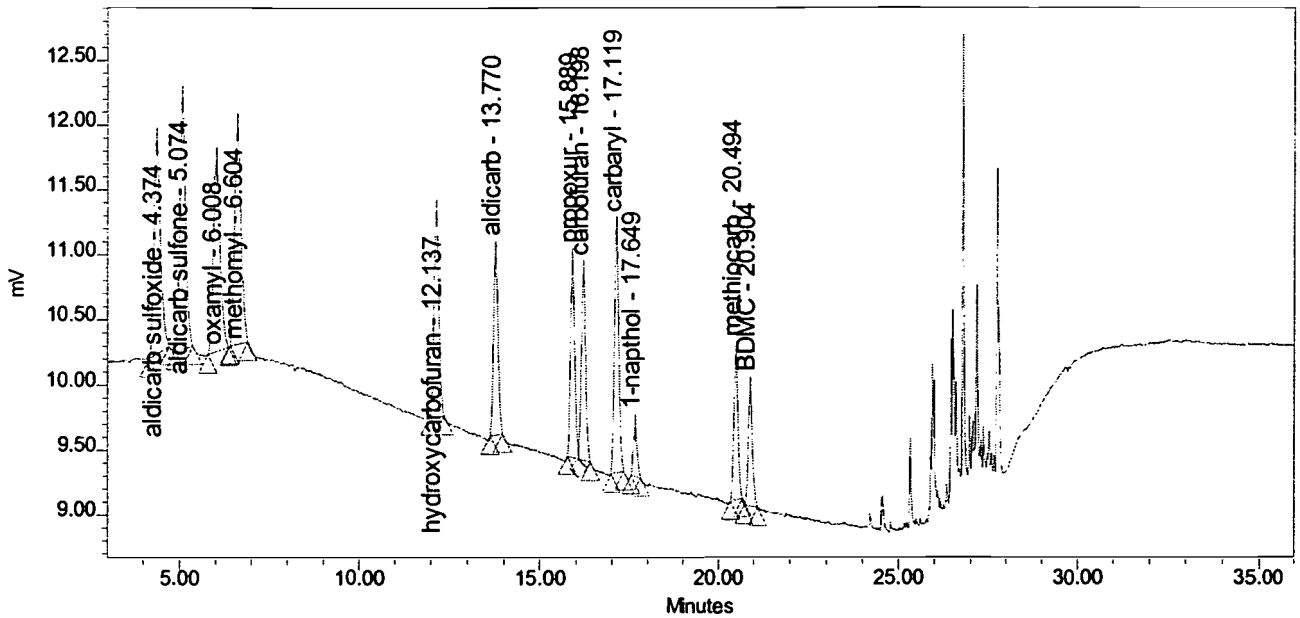
Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.354	1922	177	2.000	UG/L
2	aldicarb sulfone	5.048	2486	232	2.000	UG/L
3	oxamyl	5.986	2081	173	2.000	UG/L
4	methomyl	6.580	2407	200	2.000	UG/L
5	hydroxycarbofuran	12.167	1740	199	2.000	UG/L
6	aldicarb	13.791	1211	155	2.000	UG/L
7	propoxur	15.853	1744	187	2.000	UG/L
8	carbofuran	16.166	1529	173	2.000	UG/L
9	carbaryl	17.098	1873	223	2.000	UG/L
10	1-napthol	17.609	297	34	2.000	UG/L
11	methiocarb	20.466	931	118	2.000	UG/L
12	BDMC	20.893	703	90	2.000	UG/L
None						

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	L-2	Date Acquired	6/13/2001 11:32:53 AM
Sample Type	Standard	Acq Method Set	carbamate_dwms
Vial	2	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



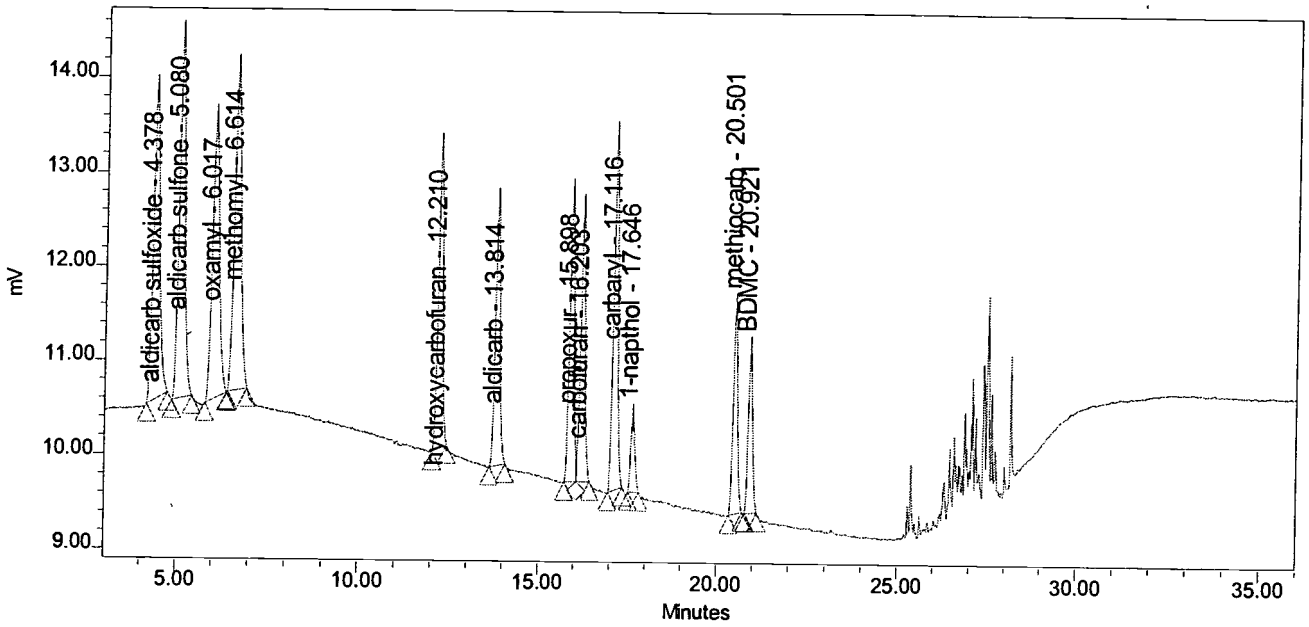
Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.374	20347	1644	10.000	UG/L
2	aldicarb sulfone	5.074	20989	1943	10.000	UG/L
3	oxamyl	6.008	19441	1476	10.000	UG/L
4	methomyl	6.604	21036	1677	10.000	UG/L
5	hydroxycarbofuran	12.137	14128	1573	10.000	UG/L
6	aldicarb	13.770	11874	1393	10.000	UG/L
7	propoxur	15.889	13095	1516	10.000	UG/L
8	carbofuran	16.198	12456	1441	10.000	UG/L
9	carbaryl	17.119	16191	1868	10.000	UG/L
10	1-napthol	17.649	2992	379	10.000	UG/L
11	methiocarb	20.494	9131	1121	10.000	UG/L
12	BDMC	20.904	7590	901	10.000	UG/L
None						

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	L-3	Date Acquired	6/13/2001 12:11:55 PM
Sample Type	Standard	Acq Method Set	carbamate_dwms
Vial	3	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



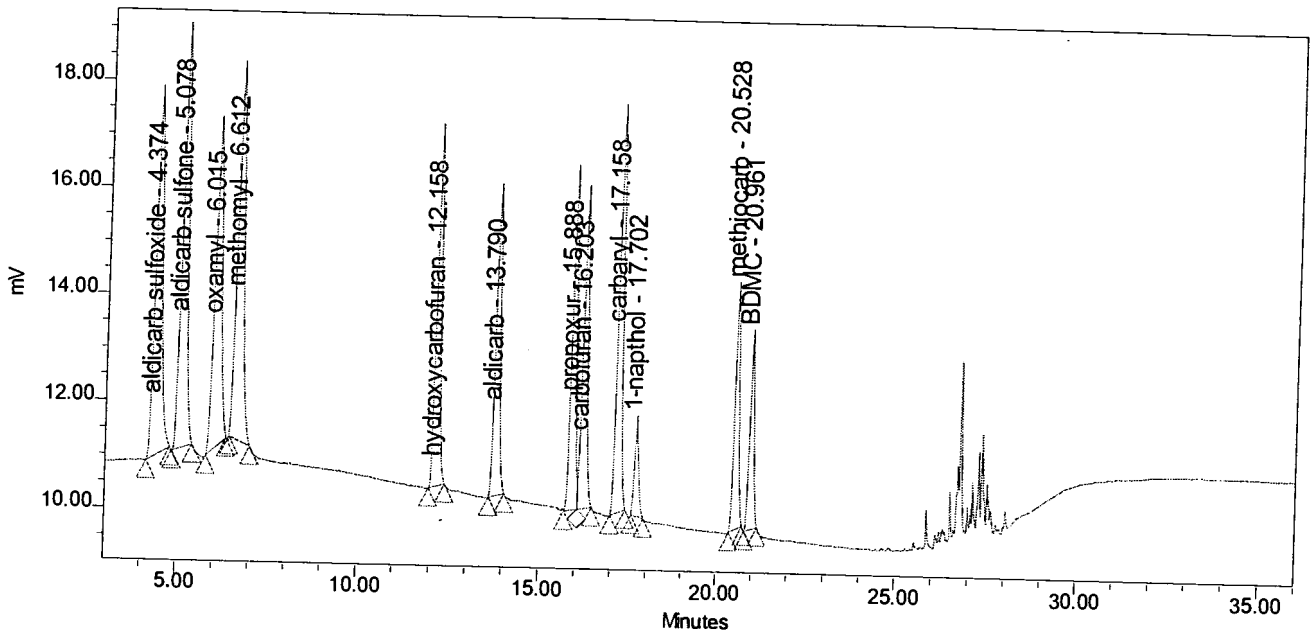
Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.378	40978	3311	20.000	UG/L
2	aldicarb sulfone	5.080	43373	3872	20.000	UG/L
3	oxamyl	6.017	39184	2982	20.000	UG/L
4	methomyl	6.614	43757	3425	20.000	UG/L
5	hydroxycarbofuran	12.210	28722	3229	20.000	UG/L
6	aldicarb	13.814	25423	2813	20.000	UG/L
7	propoxur	15.898	26880	3088	20.000	UG/L
8	carbofuran	16.203	25738	2925	20.000	UG/L
9	carbaryl	17.116	32842	3770	20.000	UG/L
10	1-napthol	17.646	6612	793	20.000	UG/L
11	methiocarb	20.501	18802	2200	20.000	UG/L
12	BDMC	20.921	14564	1742	20.000	UG/L
None						

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	L-4	Date Acquired	6/13/2001 12:50:57 PM
Sample Type	Standard	Acq Method Set	carbamate_dwms
Vial	4	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



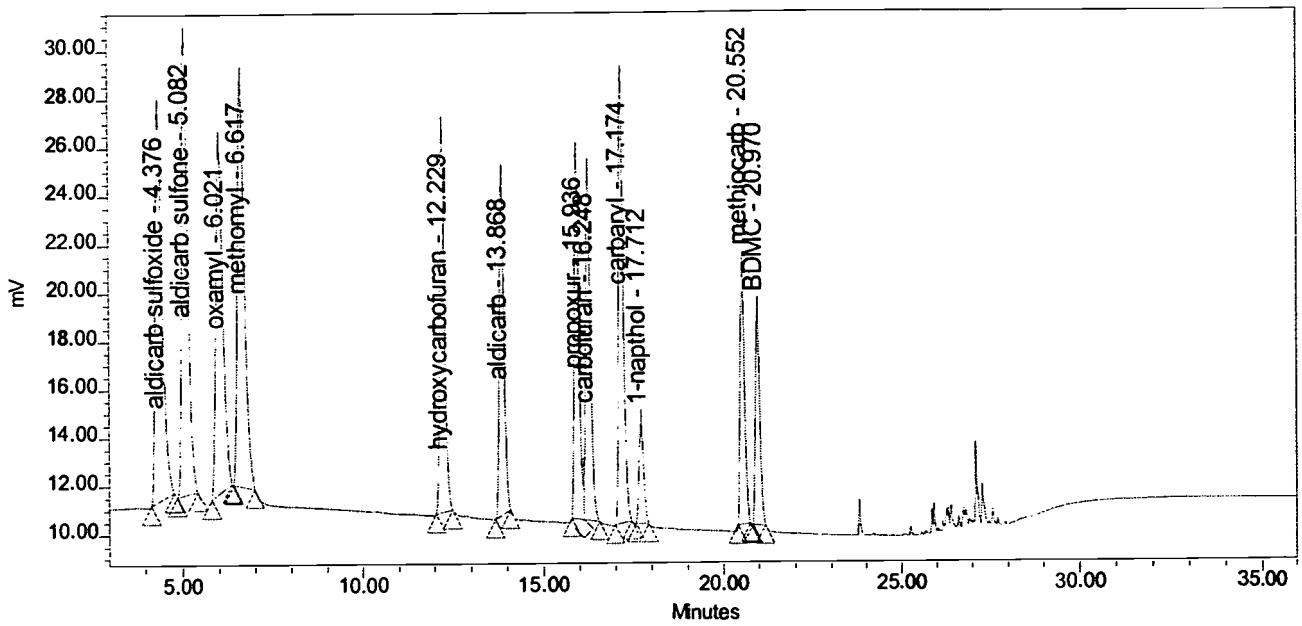
Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.374	85624	6712	40.000	UG/L
2	aldicarb sulfone	5.078	86614	7734	40.000	UG/L
3	oxamyl	6.015	77877	5950	40.000	UG/L
4	methomyl	6.612	89213	6854	40.000	UG/L
5	hydroxycarbofuran	12.158	59245	6597	40.000	UG/L
6	aldicarb	13.790	51613	5634	40.000	UG/L
7	propoxur	15.888	55915	6239	40.000	UG/L
8	carbofuran	16.203	53017	5822	40.000	UG/L
9	carbaryl	17.158	66256	7456	40.000	UG/L
10	1-napthol	17.702	14163	1628	40.000	UG/L
11	methiocarb	20.528	37728	4400	40.000	UG/L
12	BDMC	20.961	29273	3496	40.000	UG/L
None						

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	L-5	Date Acquired	6/13/2001 1:29:59 PM
Sample Type	Standard	Acq Method Set	carbamate_dwms
Vial	5	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



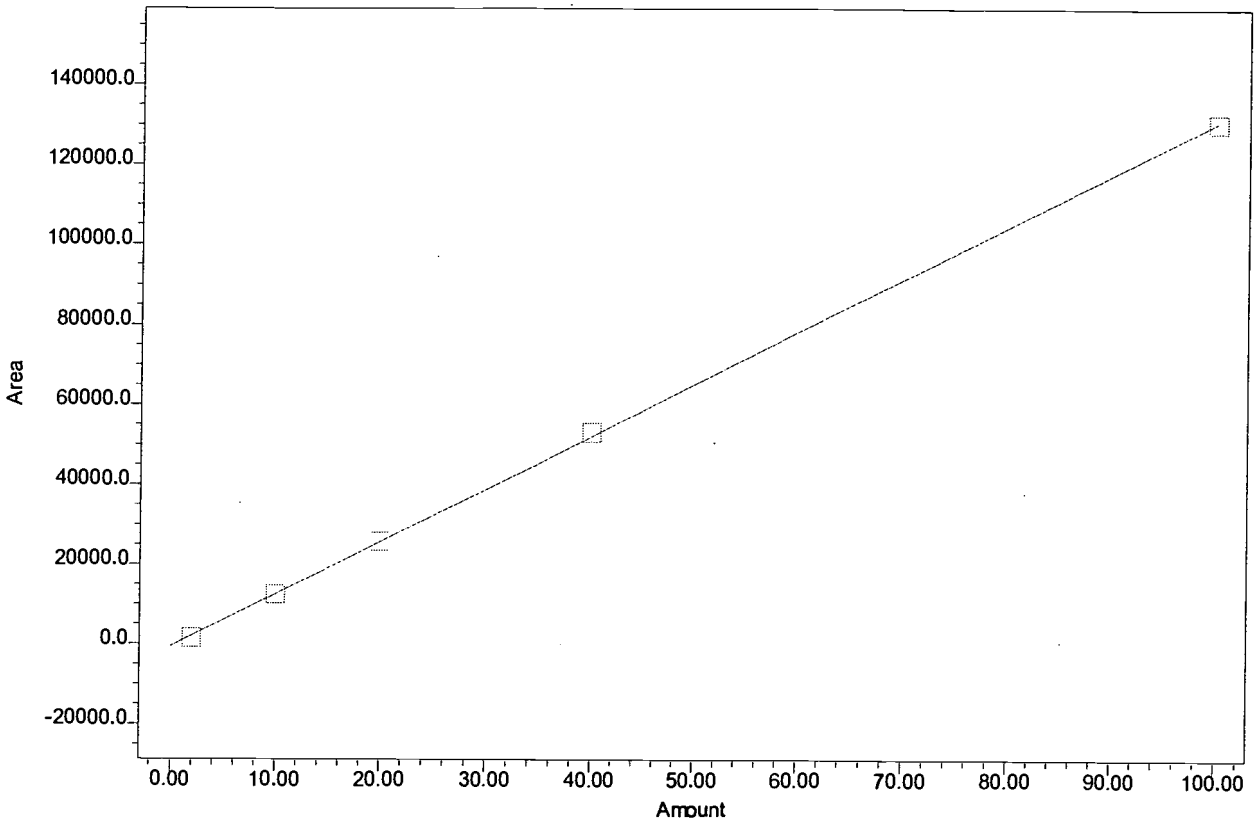
Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.376	208761	16176	100.000	UG/L
2	aldicarb sulfone	5.082	214482	18795	100.000	UG/L
3	oxamyl	6.021	191991	14476	100.000	UG/L
4	methomyl	6.617	222743	16782	100.000	UG/L
5	hydroxycarbofuran	12.229	148063	15906	100.000	UG/L
6	aldicarb	13.868	124961	14003	100.000	UG/L
7	propoxur	15.936	134357	15085	100.000	UG/L
8	carbofuran	16.248	130507	14431	100.000	UG/L
9	carbaryl	17.174	164962	18511	100.000	UG/L
10	1-napthol	17.712	36090	4153	100.000	UG/L
11	methiocarb	20.552	91042	10825	100.000	UG/L
12	BDMC	20.970	74352	8936	100.000	UG/L
None						

Calibration Information

Name	carbofuran	A	-5.751139e+002	Calibration Id	21935
System	HPLCUV	B	1.314665e+003	Date Calibrated	6/14/2001 8:07:21 AM
Channel	SATIN	C	0.000000e+000	Time	16.054
Fit Type	Linear	D	0.000000e+000	Processing Method	carbamateDW
		R^2	0.999865		

Calibration Plot



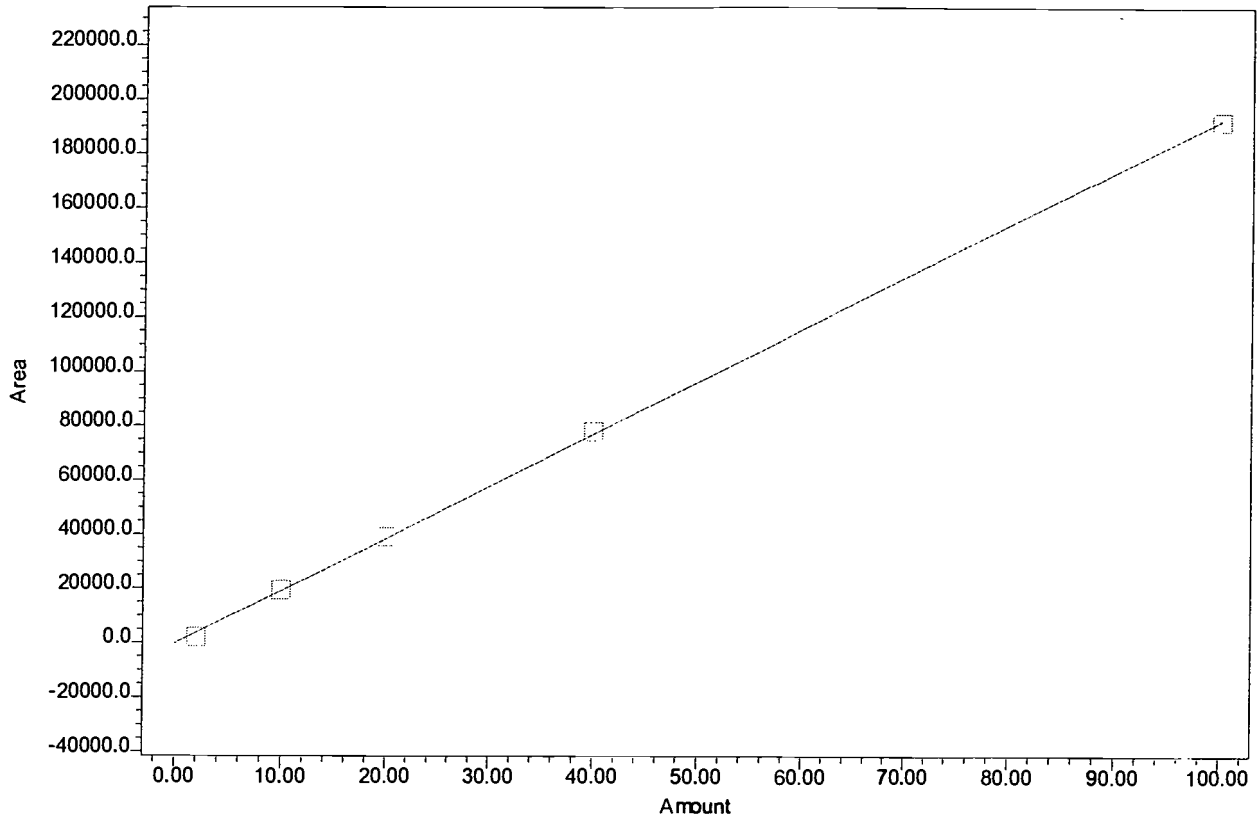
Peak: carbofuran

	Name	Level	X Value	Response	Calc. Value	% Deviation	Manual	Ignore
1	carbofuran		2.000000	1528.875000	1.600399	-19.980	No	No
2	carbofuran		10.000000	12455.974359	9.912094	-0.879	No	No
3	carbofuran		20.000000	25737.761905	20.014883	0.074	No	No
4	carbofuran		40.000000	53016.826087	40.764697	1.912	No	No
5	carbofuran		100.000000	130507.456522	99.707927	-0.292	No	No

Calibration Information

Name	oxamyl	A	-1.848529e+002	Calibration Id	21935
System	HPLCUV	B	1.927315e+003	Date Calibrated	6/14/2001 8:07:21 AM
Channel	SATIN	C	0.000000e+000	Time	5.802
Fit Type	Linear	D	0.000000e+000	Processing Method	carbamateDW
		R^2	0.999801		

Calibration Plot



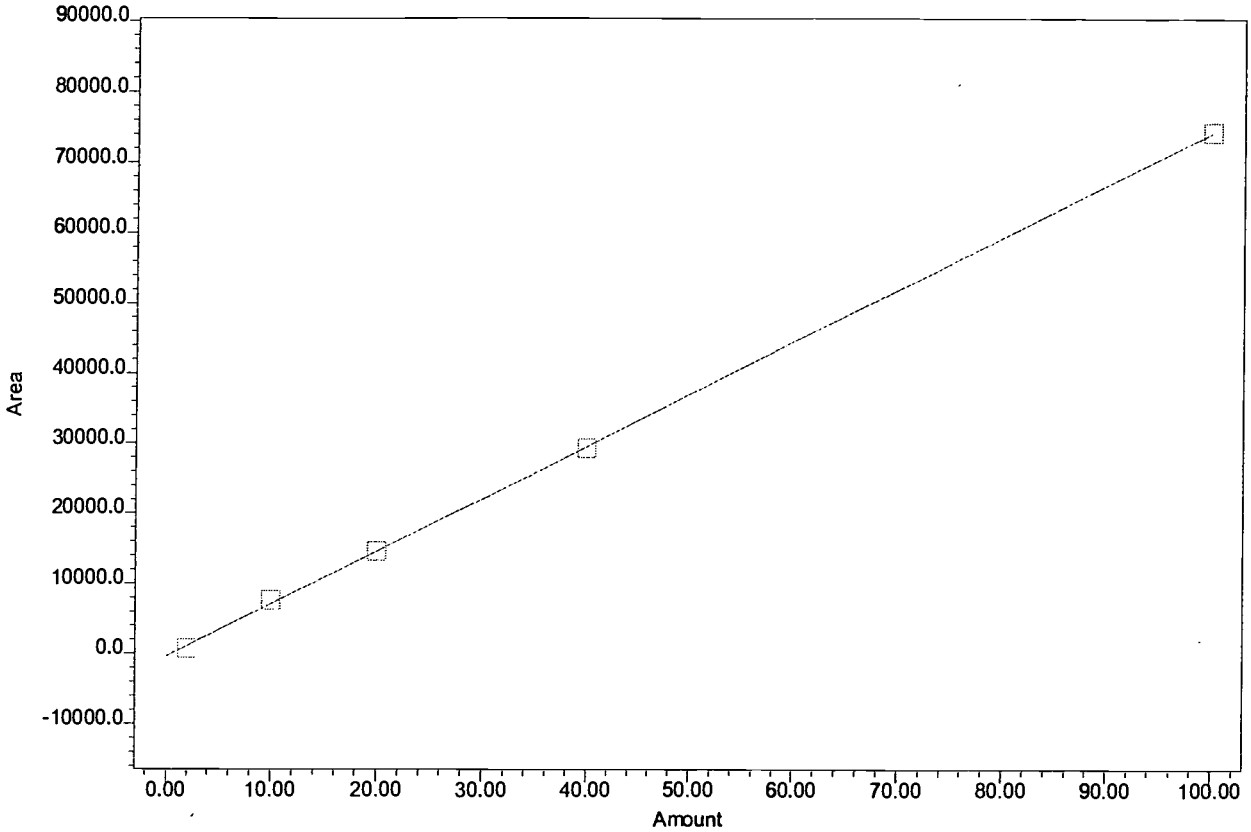
Peak: oxamyl

	Name	Level	X Value	Response	Calc. Value	% Deviation	Manual	Ignore
1	oxamyl		2.000000	2081.000000	1.175652	-41.217	No	No
2	oxamyl		10.000000	19441.000000	10.183000	1.830	No	No
3	oxamyl		20.000000	39184.000000	20.426782	2.134	No	No
4	oxamyl		40.000000	77877.000000	40.502893	1.257	No	No
5	oxamyl		100.000000	191991.000000	99.711673	-0.288	No	No

Calibration Information

Name	BDMC	A	-4.110304e+002	Calibration Id	21935
System	HPLCUV	B	7.473061e+002	Date Calibrated	6/14/2001 8:07:21 AM
Channel	SATIN	C	0.000000e+000	Time	20.827
Fit Type	Linear	D	0.000000e+000	Processing Method	carbamateDW
		R^2	0.999864		

Calibration Plot



Peak: BDMC

	Name	Level	X Value	Response	Calc. Value	% Deviation	Manual	Ignore
1	BDMC		2.000000	703.000000	1.490728	-25.464	No	No
2	BDMC		10.000000	7590.000000	10.706497	7.065	No	No
3	BDMC		20.000000	14563.500000	20.038014	0.190	No	No
4	BDMC		40.000000	29273.000000	39.721380	-0.697	No	No
5	BDMC		100.000000	74352.000000	100.043381	0.043	No	No

Heritage Environmental Services

EPA 531.1 REV. 3.1 Continuing Calibration (CCV)

Test Code O605.0

Analyst # 287

Instrument # 100 Channel # 1

File : _____ Date/Time : 6/13/01 20:39

Units µg/L

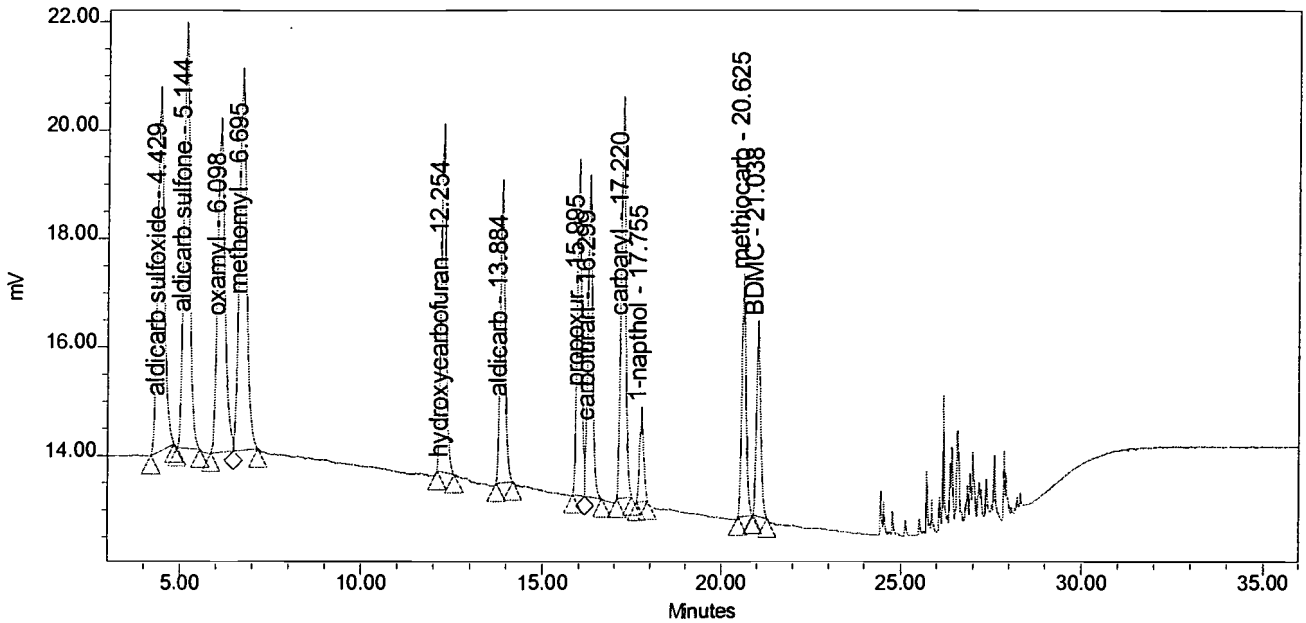
PRM	Parameter	True Value	Extract	Result	% Recovery	RPD
816	ALDICARB	40		38.6	96.5	
214	CARBOFURAN			40.0	100.0	
820	METHIOCARB			39.9	99.8	
814	METHOMYL			43.0	107.5	
813	OXAMYL (VYDATE)			43.4	108.5	
1804	...					
971	SURROGATE RECOVERY					
972	----------					
2950	4-BROMO-3,5-DIMETHYLPHENYL N-METHYLCAR	40		38.9	97.3	

SAB 6/15/01

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	CCV L-4	Date Acquired	6/13/2001 8:39:39 PM
Sample Type	Unknown	Acq Method Set	carbamate_dwms
Vial	4	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.429	84249	6503	40.443	UG/L
2	aldicarb sulfone	5.144	88334	7646	41.240	UG/L
3	oxamyl	6.098	83381	5927	43.359	UG/L
4	methomyl	6.695	95087	6835	42.977	UG/L
5	hydroxycarbofuran	12.254	57736	6224	39.331	UG/L
6	aldicarb	13.884	48353	5340	38.638	UG/L
7	propoxur	15.995	52988	5978	39.275	UG/L
8	carbofuran	16.299	52015	5691	40.002	UG/L
9	carbaryl	17.220	63888	7189	38.899	UG/L
10	1-napthol	17.755	12877	1513	36.707	UG/L
11	methiocarb	20.625	36597	4260	39.943	UG/L
12	BDMC	21.038	28637	3379	38.870	UG/L
None						

Heritage Environmental Services

EPA 531.1 REV. 3.1 Continuing Calibration (CCV)

Test Code O605.0

Analyst # 287

Instrument # 100 Channel # 1

File : _____ Date/Time : 6/14/01 09:06

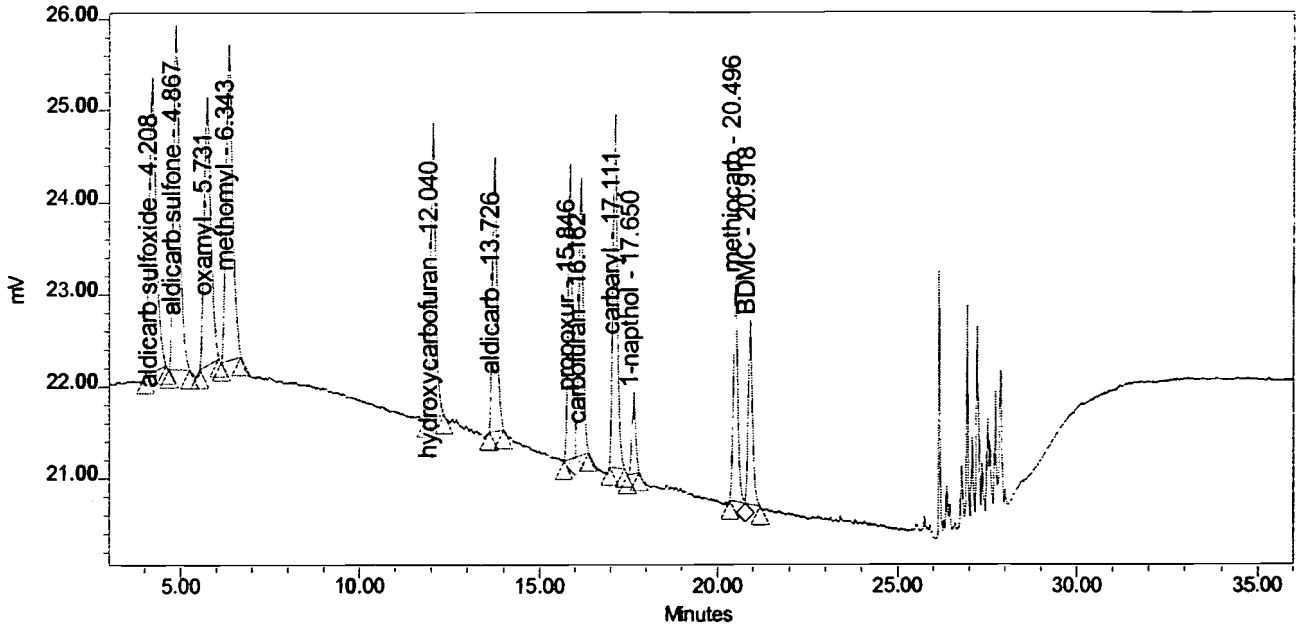
Units µg/L

PRM	Parameter	True Value	Extract	Result	% Recovery	RPD
816	ALDICARB	20		20.9	104.5	
214	CARBOFURAN			20.0	100.0	
820	METHIOCARB			22.0	110.0	
814	METHOMYL			20.3	101.5	
813	OXAMYL (VYDATE)			19.5	97.5	
1804	...					
971	SURROGATE RECOVERY					
972	----------					
2950	4-BROMO-3,5-DIMETHYLPHENYL N-METHYLCAR	20		22.1	110.5	

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	CCV L-3	Date Acquired	6/14/2001 9:06:04 AM
Sample Type	Unknown	Acq Method Set	carbamate_dwms
Vial	3	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.208	40124	3071	19.484	UG/L
2	aldicarb sulfone	4.867	43061	3599	20.239	UG/L
3	oxamyl	5.731	37305	2765	19.452	UG/L
4	methomyl	6.343	44282	3308	20.347	UG/L
5	hydroxycarbofuran	12.040	29364	3074	20.313	UG/L
6	aldicarb	13.726	25961	2853	20.856	UG/L
7	propoxur	15.846	27169	3073	20.175	UG/L
8	carbofuran	16.162	25700	2881	19.986	UG/L
9	carbaryl	17.111	32919	3708	20.230	UG/L
10	1-napthol	17.650	6011	740	17.983	UG/L
11	methiocarb	20.496	20162	2295	21.976	UG/L
12	BDMC	20.918	16112	1862	22.110	UG/L
None						

R414624

Page _____ of _____

Heritage Environmental Services

EPA 531.1 REV. 3.1 Method Blank

Method # 251 Matrix 2 Analyst # 287

Sample ID: BLA01 Q# _____ File : _____ Date/Time : 6/13/01 14:09

Instrument # 100 Channel # 1 Dilution Factor 1 DL Multiplier 1

PRM	Parameter	Extract	Result	Limit	Units
816	ALDICARB		BDL	2	ug/L
214	CARBOFURAN			4.0	ug/L
820	METHIOCARB			2	ug/L
814	METHOMYL			0.5	ug/L
813	OXAMYL (VYDATE)			20	ug/L
1804	...				
971	SURROGATE RECOVERY				
972	----------				
2950	4-BROMO-3,5-DIMETHYLPHENYL N-METHYLCARBA		11.0	110	% Rec

15

Comments: _____

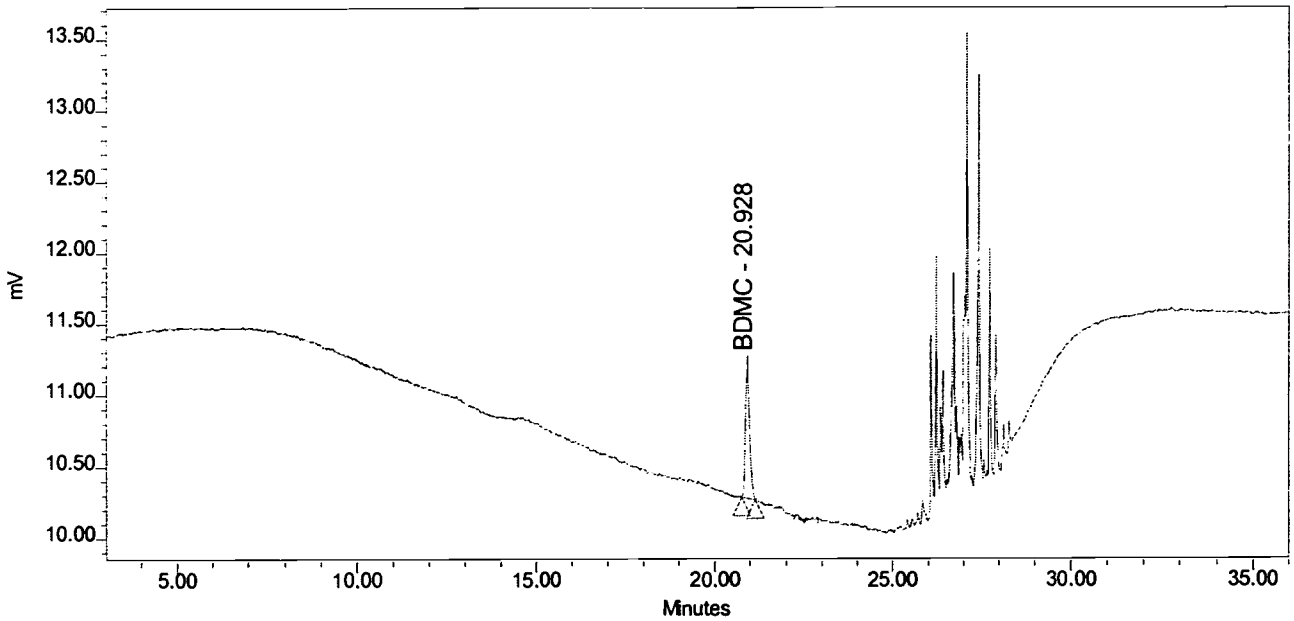
Reviewed SAB Date 6/15/1

KBM 6-15-01

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	BLA01	Date Acquired	6/13/2001 2:09:03 PM
Sample Type	Unknown	Acq Method Set	carbamate_dwms
Vial	6	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.236				
2	aldicarb sulfone	4.937				
3	oxamyl	5.802				
4	methomyl	6.437				
5	hydroxycarbofuran	12.040				
6	aldicarb	13.660				
7	propoxur	15.752				
8	carbofuran	16.054				
9	carbaryl	16.983				
10	1-napthol	17.544				
11	methiocarb	20.406				
12	BDMC	20.928	7802	906	10.990	UG/L
None						

Heritage Environmental Services
EPA 531.1 REV. 3.1 MS/MSD/LCS

Method# 251 R553440 ms Matrix 2 Analyst # 287

Sample ID: SP161 Q# _____ File : _____ Date/Time : 6/13/01 16:06

Instrument # 100 Channel # 1 Units µg/L

PRM	Parameter	Sample	True Value	Extract	Result	% Rec	RPD
816	ALDICARB	BDL	10		~~10.0~~ 11.0	110.0	
214	CARBOFURAN				11.3	113.0	
820	METHIOCARB				10.2	102.0	
814	METHOMYL				11.7	117.0	
813	OXAMYL (VYDATE)				11.3	113.0	
1804	...						
971	SURROGATE RECOVERY						
972	----------						
2950	4-BROMO-3,5-DIMETHYLPHENYL N-METHYLC		10		10.5	105.0	

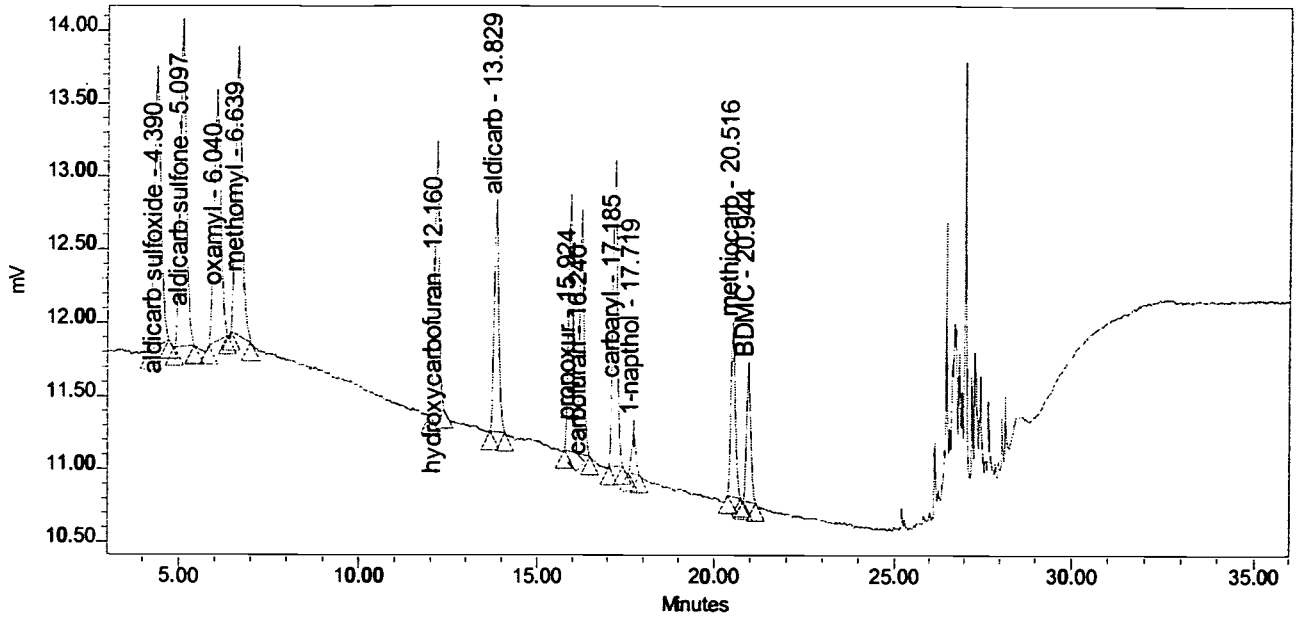
Comments: _____

Reviewed SAB Date 6/15/1

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	A553440MS	Date Acquired	6/13/2001 4:06:12 PM
Sample Type	Unknown	Acq Method Set	carbamate_dwms
Vial	9	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.390	23209	1838	11.449	UG/L
2	aldicarb sulfone	5.097	24865	2165	11.798	UG/L
3	oxamyl	6.040	21671	1645	11.340	UG/L
4	methomyl	6.639	24817	1895	11.676	UG/L
5	hydroxycarbofuran	12.160	15976	1783	11.338	UG/L
6	aldicarb	13.829	13495	1506	10.957	UG/L
7	propoxur	15.924	14918	1682	11.112	UG/L
8	carbofuran	16.240	14267	1591	11.290	UG/L
9	carbaryl	17.185	17523	2004	10.950	UG/L
10	1-napthol	17.719	2261	273	7.757	UG/L
11	methiocarb	20.516	9430	1102	10.245	UG/L
12	BDMC	20.944	7399	869	10.451	UG/L
None						

Heritage Environmental Services

EPA 531.1 REV. 3.1 MS/MSD/LCS

Method# 251 Matrix 2 Analyst # 287

Sample ID: ~~DPS 02~~ AS53440 msd Q# _____ File : _____ Date/Time : 6/13/01 16:45

Instrument # 100 Channel # 1 Units ~~µg~~/L

PRM	Parameter	Sample	True Value	Extract	Result	% Rec	RPD
816	ALDICARB	BDL	10		9.29	92.9	16.9
214	CARBOFURAN				10.3	103.0	9.3
820	METHIOCARB				9.78	97.8	4.2
814	METHOMYL				10.7	107.0	8.9
813	OXAMYL (VYDATE)				10.5	105.0	7.5
1804	...						
971	SURROGATE RECOVERY						
972	----------						
2950	4-BROMO-3,5-DIMETHYLPHENYL N-METHYLC		10		10.1	101.0	

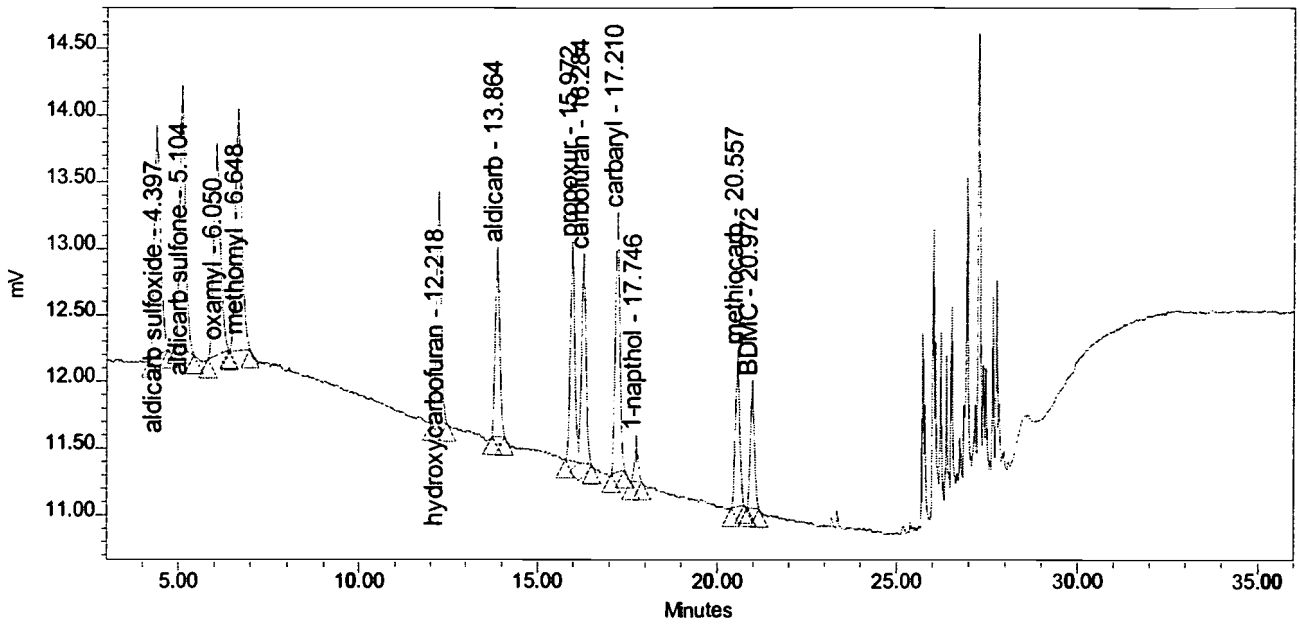
Comments: _____

Reviewed SAB Date 6/15/1

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	A553440MSD	Date Acquired	6/13/2001 4:45:16 PM
Sample Type	Unknown	Acq Method Set	carbamate_dwms
Vial	10	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.397	20202	1639	10.020	UG/L
2	aldicarb sulfone	5.104	20557	1879	9.799	UG/L
3	oxamyl	6.050	19972	1493	10.459	UG/L
4	methomyl	6.648	22597	1724	10.687	UG/L
5	hydroxycarbofuran	12.218	14962	1633	10.658	UG/L
6	aldicarb	13.864	11389	1325	9.285	UG/L
7	propoxur	15.972	13897	1561	10.357	UG/L
8	carbofuran	16.284	12968	1472	10.302	UG/L
9	carbaryl	17.210	16103	1857	10.093	UG/L
10	1-napthol	17.746	2059	246	7.209	UG/L
11	methiocarb	20.557	9000	1080	9.775	UG/L
12	BDMC	20.972	7164	861	10.136	UG/L
None						

Heritage Environmental Services

EPA 531.1 REV. 3.1 MS/MSD/LCS

Method# 251 Matrix 2 Analyst # 287

Sample ID: LFB01 Q# _____ File : _____ Date/Time : 6/13/01 14:48

Instrument # 100 Channel # 1 Units µg/L

PRM	Parameter	Sample	True Value	Extract	Result	% Rec	RPD
816	ALDICARB		10		9.80	98.0	
214	CARBOFURAN				10.4	104.0	
820	METHIOCARB				10.2	102.0	
814	METHOMYL				11.1	111.0	
813	OXAMYL (VYDATE)				10.5	105.0	
1804	...						
971	SURROGATE RECOVERY						
972	----------						
2950	4-BROMO-3,5-DIMETHYLPHENYL N-METHYLC		10		9.77	97.7	

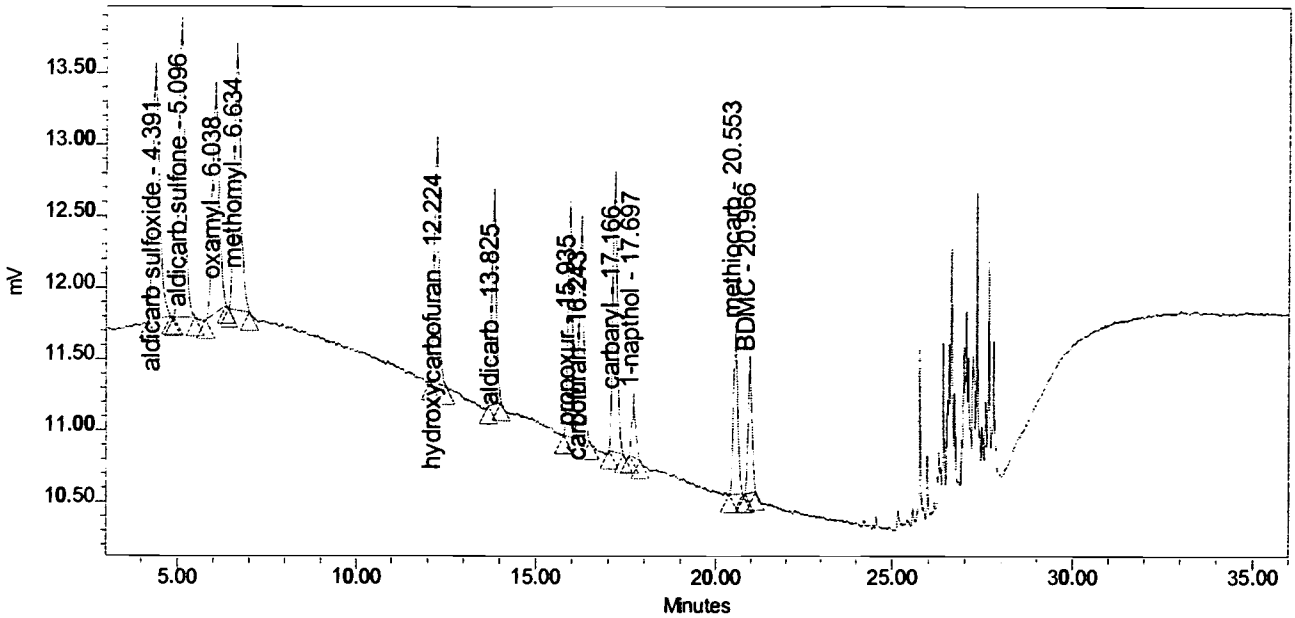
Comments: _____

Reviewed SAB Date 6/15/01

Carbamate Sample Information
HPLC #100/Channel #1

Sample Name	LFB01	Date Acquired	6/13/2001 2:48:05 PM
Sample Type	Unknown	Acq Method Set	carbamate_dwms
Vial	7	Processing Method	carbamateDW
Injection Volume	200.00 ul	Run Time	36.0 Minutes

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	Height	Amount	Units
1	aldicarb sulfoxide	4.391	21935	1703	10.844	UG/L
2	aldicarb sulfone	5.096	23043	2008	10.953	UG/L
3	oxamyl	6.038	20146	1528	10.549	UG/L
4	methomyl	6.634	23417	1779	11.053	UG/L
5	hydroxycarbofuran	12.224	14994	1645	10.680	UG/L
6	aldicarb	13.825	12041	1425	9.802	UG/L
7	propoxur	15.935	13706	1567	10.216	UG/L
8	carbofuran	16.243	13157	1480	10.445	UG/L
9	carbaryl	17.166	16263	1871	10.190	UG/L
10	1-napthol	17.697	2898	360	9.496	UG/L
11	methiocarb	20.553	9416	1104	10.230	UG/L
12	BDMC	20.966	6887	870	9.766	UG/L
None						

✓ 6/15/1

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
INDIANAPOLIS

OFFICE MEMORANDUM

DATE: July 18, 2001

TO: James Harris
Field Inspection Section

THRU: Martha Clark, Section Chief
Ground Water

FROM: Mitt Denney
Ground Water Section

SUBJECT: DK27345 Bennett reg. 1st. sampling

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

Several parameters were out of control in the SVOC analysis. Two compounds were detected in the laboratory QC Blank, Bis(2-ethylhexl)phthalate at 0.13 ug/L and Di-n-butylphthalate at 0.16 ug/L. The balance of QA/QC samples were within acceptable limits for the analyses performed.

Results

SVOC analytical results are suitable for qualitative evaluation. Bis(2-ethylhexl)phthalate (0.24 ug/L) and Di-n-butylphthalate (0.15 ug/L) were detected in the sample. These compounds are commonly introduced contaminants from plastics; therefore detections at this level are not reliable. It is unlikely these detections are valid.

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	01-JUN-01		A555261
	Complete	PO Number	
	25-JUN-01	*301E	
	Printed	Sampled	
	26-JUN-01	30-MAY-01 16:00	

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: DK27345
MATRIX TYPE: DRINKING WATER, PUBLIC OR PRIVATE SUPPLY
DESCRIPTION: NO3-NO2; 5A VOLS; 6A SVOLS; TASK 7 507/515/531
DESCRIPTION: DK27345
Submitter Code :7195

NITRATE-NITRITE,NITROGEN BY ION CHROMATOGRAPHY EPA 300.0 REV. 2.1 NELAC:Y
Analyst: J. MONTGOMERY Analysis Date: 01-JUN-01 19:09 Instrument: IC Test: G300.9.0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.74	0.10	mg/L

REGULATED & UNREGULATED VOC'S IN DRINKING WATER EPA 524.2 REV. 4.1 NELAC:Y
Analyst: R. SHAMP Analysis Date: 07-JUN-01 09:26 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)	.78	0.50	ug/L
1,2-DICHLOROPROPANE	BDL	0.50	ug/L
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

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A555261 DK27345

Parameter	Result	Det. Limit	Units
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	81		% Rec
TOLUENE-D8	84		% Rec
4-BROMOFLUOROBENZENE	92		% Rec
TENTATIVELY IDENTIFIED COMPOUNDS			
NONE DETECTED			

Note: Sample was rerun to confirm dichloromethane.

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A555261 DK27345

LIQUID - SOLID EXTRACTION (LSE) PH 2 EPA 525.2 REV. 2.0

Analyst: C. WILLHITE Analysis Date: 05-JUN-01 Instrument: PREP Test: P244.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		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: 07-JUN-01 21:39 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	0.10	ug/L
DICHLORVOS	BDL	0.10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	0.10	ug/L
EPTC (ERADICANE)	BDL	0.10	ug/L
MEVINPHOS	BDL	0.10	ug/L
BUTYLATE	BDL	0.10	ug/L
VERNOLATE	BDL	0.10	ug/L
ETRIDIAZOLE	BDL	0.10	ug/L
DIMETHYLPHTHALATE	BDL	0.10	ug/L
PEBULATE (TILLAM)	BDL	0.10	ug/L
2,6-DINITROTOLUENE	BDL	0.10	ug/L
ACENAPHTHYLENE	BDL	0.10	ug/L
CHLORNEB	BDL	0.10	ug/L
2-CHLOROBIPHENYL (1)	BDL	0.10	ug/L
PENTACHLOROBENZENE	BDL	0.10	ug/L
TEBUTHIURON	BDL	0.50	ug/L
2,4-DINITROTOLUENE	BDL	0.10	ug/L
MOLINATE	BDL	0.10	ug/L
DIETHYLPHTHALATE	BDL	0.10	ug/L
FLUORENE	BDL	0.10	ug/L
PROPACHLOR	BDL	0.10	ug/L
ETHOPROP	BDL	0.10	ug/L
CYCLOATE	BDL	0.10	ug/L
CHLOROPROPHAM	BDL	0.10	ug/L
TRIFLURALIN	BDL	0.10	ug/L
ALPHA-BHC	BDL	0.10	ug/L
2,3-DICHLOROBIPHENYL (5)	BDL	0.10	ug/L
HEXACHLOROBENZENE	BDL	0.10	ug/L
ATRATON	BDL	0.50	ug/L
PROMETON (PRAMITOL)	BDL	0.50	ug/L
SIMAZINE	BDL	0.10	ug/L
ATRAZINE	BDL	0.10	ug/L
BETA-BHC	BDL	0.10	ug/L
PROPAZINE (MILOGARD)	BDL	0.10	ug/L
PENTACHLOROPHENOL	BDL	2.0	ug/L
GAMMA-BHC (LINDANE)	BDL	0.10	ug/L
TERBUFOS (COUNTER)	BDL	0.10	ug/L
PRONAMIDE	BDL	0.10	ug/L
DIAZINON	BDL	0.10	ug/L
PHENANTHRENE	BDL	0.10	ug/L
CHLOROTHALONIL (BRAVO)	BDL	0.10	ug/L
DISULFOTON	BDL	0.10	ug/L
ANTHRACENE	BDL	0.10	ug/L
METHYLPARAOXON	BDL	0.50	ug/L

HERITAGE ENVIRONMENTAL SERVICES, LLC Sample ID: A555261 DK27345

Parameter	Result	Det. Limit	Units
TERBACIL	BDL	0.10	ug/L
DELTA-BHC	BDL	0.10	ug/L
2,4,5-TRICHLOROBIPHENYL	BDL	0.10	ug/L
ACETOCHLOR	BDL	0.10	ug/L
METRIBUZIN	BDL	0.10	ug/L
ALACHLOR	BDL	0.10	ug/L
SIMETRYN	BDL	0.10	ug/L
AMETRYN	BDL	0.10	ug/L
HEPTACHLOR	BDL	0.10	ug/L
PROMETRYN	BDL	0.10	ug/L
TERBUTRYN	BDL	0.10	ug/L
DI-N-BUTYLPHTHALATE	B .15	0.10	ug/L
BROMACIL	BDL	0.50	ug/L
2,2',4,4'-TETRACHLOROBIPHENYL	BDL	0.10	ug/L
ALDRIN	BDL	0.10	ug/L
METOLACHLOR	BDL	0.10	ug/L
CHLOROPYRIFOS (DURSBAN)	BDL	0.10	ug/L
DCPA (DACTHAL)	BDL	0.10	ug/L
CYANAZINE (BLADEX)	BDL	0.10	ug/L
TRIADIMEFON	BDL	0.10	ug/L
DIPHENAMID	BDL	0.10	ug/L
MGK 264	BDL	0.10	ug/L
PENDIMETHALIN	BDL	0.10	ug/L
HEPTACHLOR EPOXIDE	BDL	0.10	ug/L
2,2',3',4,6-PENTACHLOROBIPHENYL	BDL	0.10	ug/L
GAMMA-CHLORDANE	BDL	0.10	ug/L
STIROFOS	BDL	0.10	ug/L
BUTACHLOR	BDL	0.10	ug/L
ALPHA-CHLORDANE	BDL	0.10	ug/L
ENDOSULFAN I	BDL	0.10	ug/L
TRANS-NONACHLOR	BDL	0.10	ug/L
FENAMIPHOS	BDL	0.50	ug/L
NAPROPAMIDE	BDL	0.10	ug/L
TRICYCLAZOLE	BDL	0.10	ug/L
4,4'-DDE	BDL	0.10	ug/L
2,2',4,4',5,6'-HEXACHLOROBIPHENYL	BDL	0.10	ug/L
PYRENE	BDL	0.10	ug/L
DIELDRIN	BDL	0.10	ug/L
CARBOXIN	BDL	0.10	ug/L
ENDRIN	BDL	0.10	ug/L
CHLOROBENZILATE	BDL	0.10	ug/L
ENDOSULFAN II	BDL	0.50	ug/L
4,4'-DDD	BDL	0.10	ug/L
ENDRIN ALDEHYDE	BDL	0.50	ug/L
NORFLURAZON	BDL	0.50	ug/L
BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	BDL	0.10	ug/L
ENDOSULFAN SULFATE	BDL	0.10	ug/L
4,4'-DDT	BDL	0.10	ug/L
HEXAZINONE	BDL	0.10	ug/L
DI(2-ETHYLHEXYL)ADIPATE	BDL	0.10	ug/L
2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	BDL	0.10	ug/L
BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	BDL	0.10	ug/L
2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL	BDL	0.10	ug/L

Parameter	Result	Det. Limit	Units
METHOXYCHLOR	BDL	0.10	ug/L
CHRYSENE	BDL	0.10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	B .24	0.10	ug/L
FENARIMOL	BDL	0.50	ug/L
CIS-PERMETHRIN	BDL	0.10	ug/L
TRANS-PERMETHRIN	BDL	0.10	ug/L
BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	BDL	0.10	ug/L
BENZO(K)FLUORANTHENE	BDL	0.10	ug/L
BENZO(A)PYRENE	BDL	0.10	ug/L
FLURIDONE	BDL	0.10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	0.10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	0.10	ug/L
BENZO(G,H,I)PERYLENE	BDL	0.10	ug/L
...			

SURROGATE RECOVERY			
2-NITRO-M-XYLENE	107		% Rec
TRIPHENYL ESTER PHOSPHORIC ACID	97		% Rec
PERYLENE-D12	82		% Rec
...			
TENTATIVELY IDENTIFIED COMPOUNDS			

DODECANE	J 0.82 RT=15.21		ug/L
UNKNOWN	J 5.7 RT=25.69		ug/L

Sample failed method internal standard area criteria. Sample reanalyzed with no improvement.
Di-n-butylphthalate was detected at 0.13ug/L in prep blank.
Bis(2-ethylhexyl)phthalate was detected at 0.16ug/L in prep blank.

DIAZOMETHANE DERIVATIZATION FOR CHLORINATED ACIDS EPA 515.1 REV. 4.0
Analyst: J. OSBORNE Analysis Date: 06-JUN-01 Instrument: PREP Test: P250.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

CHLORINATED HERBICIDE ACIDS EPA 515.1 REV. 4.0 NELAC:Y
Analyst: M. KEEZER Analysis Date: 07-JUN-01 07:31 Instrument: GC/ECD Test: O250.1.0
Prep: DIAZOMETHANE DERIVATIZATION FOR CHLORINATED ACIDS EPA 515.1 REV. 4.0 P250.1.0

Parameter	Result	Det. Limit	Units
2,4-DICHLOROPHENOXYACETIC ACID	BDL	7.0	ug/L
DINOSEB	BDL	0.70	ug/L
PENTACHLOROPHENOL	BDL	0.10	ug/L
PICLORAM	BDL	50	ug/L
SILVEX (2,4,5-TP)	BDL	5.0	ug/L
DALAPON	BDL	20	ug/L
...			
SURROGATE RECOVERY			

4,4'-DIBROMOOCTAFLUOROBIPHENYL (DBOB)	85.3		% Rec
2,4-DICHLOROPHENYLACETIC ACID	93.8		% Rec

DCPA confirmed at 3.5 ug/L.

HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A555261 DK27345**

CARBAMATE HERBICIDES BY HPLC EPA 531.1 REV. 3.1 NELAC:Y

Analyst: A. SAUERLAND Analysis Date: 13-JUN-01 21:57 Instrument: HPLC Test: 0605.0.0

Parameter	Result	Det. Limit	Units
CARBOFURAN	BDL	4.0	ug/L
OXAMYL	BDL	20.	ug/L
...			
SURROGATE RECOVERY			

4-BROMO-3,5-DIMETHYLPHENYL N-METHYLCARBAMATE	113		% Rec

Sample Comments

B Detected in blank
BDL Below Detection Limit
J Estimated
RT Retention Time

Sample was not received on ice at temperature 3.3 C.
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.

Approved : HABusch, QAO

HERITAGE ENVIRONMENTAL SERVICES, LLC

NITRATE-NITRITE,NITROGEN BY ION CHROMATOGRAPHY EPA 300.0 REV. 2.1 G300.9

Run: R413926 Analyst.: J MONTGOMERY Run Date...: 01-JUN-01 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 07-JUN-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q1243743		NITROGEN, NITRATE-NITRITE	2		2.02	mg/L	101	
CCVL	Q1243744		NITROGEN, NITRATE-NITRITE	1		0.986	mg/L	98.6	
CCVH	Q1243745		NITROGEN, NITRATE-NITRITE	10		9.61	mg/L	96.1	
BLA01	Q1243746		NITROGEN, NITRATE-NITRITE			< 0.04	mg/L		
SAMPLE	A555261		See Cert. of Analysis, Rep: 0						
DUP01	Q1243747	A555261	NITROGEN, NITRATE-NITRITE	0.74		0.73	mg/L		1.4
CCVL	Q1243748		NITROGEN, NITRATE-NITRITE	1		1.03	mg/L	103	
CCVH	Q1243749		NITROGEN, NITRATE-NITRITE	10		9.79	mg/L	97.9	
BLA01	Q1243750		NITROGEN, NITRATE-NITRITE			< 0.04	mg/L		

CHLORINATED HERBICIDE ACIDS EPA 515.1 REV. 4.0 0250.1

Prep: DIAZOMETHANE DERIVATIZATION FOR CHLORINATED ACIDS EPA 515.1 REV. 4.0

Run: R414075 Analyst.: J OSBORNE Run Date...: 06-JUN-01
PREP Reviewer: E WERNZ Review Date: 07-JUN-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1244810		R414200
LCS	Q1244811		R414200
SPI02	Q1244812	A555552	R414200
DPS02	Q1244813	A555552	R414200
SAMPLE	A555261	Rep: 0	R414200

Run: R414200 Analyst.: M KEEZER Run Date...: 07-JUN-01 Instrument: GC/ECD
ANALYTICAL Reviewer: E WERNZ Review Date: 08-JUN-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1245564		2,4-DICHLOROPHENOXYACETIC ACID	250		230.2	ug/L	92.1	
ICV01	Q1245564		DINOSEB	250		203	ug/L	81.2	
ICV01	Q1245564		PENTACHLOROPHENOL	10		11.9	ug/L	119	
ICV01	Q1245564		PICLORAM	100		73.4	ug/L	73.4	
ICV01	Q1245564		SILVEX (2,4,5-TP)	50		55.9	ug/L	111.8	
ICV01	Q1245564		DALAPON	250		265.1	ug/L	106	
BLA02	Q1244810		2,4-DICHLOROPHENOXYACETIC ACID			BDL 7	ug/L		
BLA02	Q1244810		DINOSEB			BDL 0.7	ug/L		
BLA02	Q1244810		PENTACHLOROPHENOL			BDL 0.1	ug/L		
BLA02	Q1244810		PICLORAM			BDL 50	ug/L		
BLA02	Q1244810		SILVEX (2,4,5-TP)			BDL 5	ug/L		
BLA02	Q1244810		DALAPON			BDL 20	ug/L		
LCS	Q1244811		2,4-DICHLOROPHENOXYACETIC ACID	2.5		2.15	ug/L	86	
LCS	Q1244811		DINOSEB	2.5		1.56	ug/L	62.4	
LCS	Q1244811		PENTACHLOROPHENOL	0.1		0.078	ug/L	78	
LCS	Q1244811		PICLORAM	1		0.996	ug/L	99.6	
LCS	Q1244811		SILVEX (2,4,5-TP)	0.5		0.511	ug/L	102.2	
LCS	Q1244811		DALAPON	2.5		1.43	ug/L	57.2	
SPI02	Q1244812	A555552	2,4-DICHLOROPHENOXYACETIC ACID	0	2.5	2.24	ug/L	89.6	
SPI02	Q1244812	A555552	DINOSEB	0	2.5	0.21	ug/L	8.4	
SPI02	Q1244812	A555552	PENTACHLOROPHENOL	0	0.1	0.0614	ug/L	61.4	
SPI02	Q1244812	A555552	PICLORAM	0	1	0.968	ug/L	96.8	
SPI02	Q1244812	A555552	SILVEX (2,4,5-TP)	0	0.5	0.527	ug/L	105.4	
SPI02	Q1244812	A555552	DALAPON	0	2.5	1.52	ug/L	60.8	
DPS02	Q1244813	A555552	2,4-DICHLOROPHENOXYACETIC ACID	0	2.5	2.14	ug/L	85.6	4.6

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS02	Q1244813	A555552	DINOSEB	0	2.5	0.768	ug/L	30.7	114.1
DPS02	Q1244813	A555552	PENTACHLOROPHENOL	0	0.1	0.0735	ug/L	73.5	17.9
DPS02	Q1244813	A555552	PICLORAM	0	1	0.972	ug/L	97.2	.4
DPS02	Q1244813	A555552	SILVEX (2,4,5-TP)	0	0.5	0.528	ug/L	105.6	.2
DPS02	Q1244813	A555552	DALAPON	0	2.5	3.06	ug/L	122.4	67.2
SAMPLE	A555261		See Cert. of Analysis, Rep: 0						
CCV	Q1245565		2,4-DICHLOROPHENOXYACETIC ACID	500		444.3	ug/L	88.9	
CCV	Q1245565		DINOSEB	500		468.9	ug/L	93.8	
CCV	Q1245565		PENTACHLOROPHENOL	500		473.9	ug/L	94.8	
CCV	Q1245565		PICLORAM	500		455.9	ug/L	91.2	
CCV	Q1245565		SILVEX (2,4,5-TP)	500		480.6	ug/L	96.1	
CCV	Q1245565		DALAPON	500		463.8	ug/L	92.8	

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: R414002 Analyst.: C WILLHITE Run Date...: 05-JUN-01
PREP Reviewer: V BROWN Review Date: 06-JUN-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1244193		R414315
LCS	Q1244194		R414315
SPI02	Q1240474	A554400	R413588
SAMPLE	A555261	Rep: 0	R414315

Run: R413588 Analyst.: J MINNIEAR, II Run Date...: 29-MAY-01 Instrument: GC/MS SVOA
ANALYTICAL Reviewer: L SMITH Review Date: 31-MAY-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and time of analysis	30-MAY-01	02:14:00				
SPI02	Q1240474	A554400	ISOPHORONE	0	2	2.03	ug/L	101.5	
SPI02	Q1240474	A554400	DICHLORVOS	0	2	1.8	ug/L	90	
SPI02	Q1240474	A554400	HEXACHLOROCYCLOPENTADIENE	0	2	2.22	ug/L	111	
SPI02	Q1240474	A554400	EPTC (ERADICANE)	0	2	1.86	ug/L	93	
SPI02	Q1240474	A554400	MEVINPHOS	0	2	1.54	ug/L	77	
SPI02	Q1240474	A554400	BUTYLATE	0	2	1.82	ug/L	91	
SPI02	Q1240474	A554400	VERNOLATE	0	2	1.91	ug/L	95.5	
SPI02	Q1240474	A554400	ETRIDIAZOLE	0	2	2.2	ug/L	110	
SPI02	Q1240474	A554400	DIMETHYLPHTHALATE	0	2	2.08	ug/L	104	
SPI02	Q1240474	A554400	PEBULATE (TILLAM)	0	2	1.83	ug/L	91.5	
SPI02	Q1240474	A554400	2,6-DINITROTOLUENE	0	2	1.01	ug/L	50.5	
SPI02	Q1240474	A554400	ACENAPHTHYLENE	0	2	2.03	ug/L	101.5	
SPI02	Q1240474	A554400	CHLORNEB	0	2	2.1	ug/L	105	
SPI02	Q1240474	A554400	(1) 2-CHLOROBIPHENYL	0	2	2.06	ug/L	103	
SPI02	Q1240474	A554400	PENTACHLOROBENZENE	0	2	1.8	ug/L	90	
SPI02	Q1240474	A554400	TEBUTHIURON	0	2	1.45	ug/L	72.5	
SPI02	Q1240474	A554400	2,4-DINITROTOLUENE	0	2	! 0.93	ug/L	46.5	
SPI02	Q1240474	A554400	MOLINATE	0	2	2.01	ug/L	100.5	
SPI02	Q1240474	A554400	DIETHYLPHTHALATE	0	2	1.94	ug/L	97	
SPI02	Q1240474	A554400	FLUORENE	0	2	1.9	ug/L	95	
SPI02	Q1240474	A554400	PROPACHLOR	0	2	1.83	ug/L	91.5	
SPI02	Q1240474	A554400	ETHOPROP	0	2	1.85	ug/L	92.5	
SPI02	Q1240474	A554400	CYCLOATE	0	2	1.92	ug/L	96	
SPI02	Q1240474	A554400	CHLOROPROPHAM	0	2	1.99	ug/L	99.5	
SPI02	Q1240474	A554400	TRIFLURALIN	0	2	1.69	ug/L	84.5	
SPI02	Q1240474	A554400	ALPHA-BHC	0	2	2.4	ug/L	120	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI02	Q1240474	A554400	(5) 2,3-DICHLOROBIPHENYL	0	2	2.14	ug/L	107	
SPI02	Q1240474	A554400	HEXACHLOROBEN2ENE	0	2	1.75	ug/L	87.5	
SPI02	Q1240474	A554400	ATRATON	0	2	! 0.31	ug/L	15.5	
SPI02	Q1240474	A554400	PROMETON (PRAMITOL)	0	2	! 0.5	ug/L	25	
SPI02	Q1240474	A554400	SIMAZINE	0	2	1.42	ug/L	71	
SPI02	Q1240474	A554400	ATRA2INE	0	4	3.03	ug/L	75.8	
SPI02	Q1240474	A554400	BETA-BHC	0	2	1.89	ug/L	94.5	
SPI02	Q1240474	A554400	PROPA2INE (MILOGARD)	0	2	1.44	ug/L	72	
SPI02	Q1240474	A554400	PENTACHLOROPHENOL	0	8	! 19.1	ug/L	238.8	
SPI02	Q1240474	A554400	GAMMA-BHC (LINDANE)	0	2	2.28	ug/L	114	
SPI02	Q1240474	A554400	TERBUFOS (COUNTER)	0	2	2.06	ug/L	103	
SPI02	Q1240474	A554400	PRONAMIDE	0	2	1.81	ug/L	90.5	
SPI02	Q1240474	A554400	DIAZINON	0	2	1.74	ug/L	87	
SPI02	Q1240474	A554400	PHENANTHRENE	0	2	1.89	ug/L	94.5	
SPI02	Q1240474	A554400	CHLOROTHALONIL (BRAVO)	0	2	2.4	ug/L	120	
SPI02	Q1240474	A554400	DISULFOTON	0	2	1.46	ug/L	73	
SPI02	Q1240474	A554400	ANTHRACENE	0	2	! 0.99	ug/L	49.5	
SPI02	Q1240474	A554400	METHYLPARAOXON	0	2	1.22	ug/L	61	
SPI02	Q1240474	A554400	TERBACIL	0	2	1.83	ug/L	91.5	
SPI02	Q1240474	A554400	DELTA-BHC	0	2	2.2	ug/L	110	
SPI02	Q1240474	A554400	2,4,5-TRICHLOROBIPHENYL	0	2	2.05	ug/L	102.5	
SPI02	Q1240474	A554400	ACETOCHLOR	0	2	2.18	ug/L	109	
SPI02	Q1240474	A554400	METRIBUZIN	0	2	1.68	ug/L	84	
SPI02	Q1240474	A554400	ALACHLOR	0	4	3.95	ug/L	98.8	
SPI02	Q1240474	A554400	SIMETRYN	0	2	! 0.73	ug/L	36.5	
SPI02	Q1240474	A554400	AMETRYN	0	2	1	ug/L	50	
SPI02	Q1240474	A554400	HEPTACHLOR	0	2	1.79	ug/L	89.5	
SPI02	Q1240474	A554400	PROMETRYN	0	2	1.18	ug/L	59	
SPI02	Q1240474	A554400	TERBUTRYN	0	2	1.02	ug/L	51	
SPI02	Q1240474	A554400	DI-N-BUTYLPHTHALATE	0	2	2.19	ug/L	109.5	
SPI02	Q1240474	A554400	BROMACIL	0	2	2.03	ug/L	101.5	
SPI02	Q1240474	A554400	2,2',4,4'-TETRACHLOROBIPHENYL	0	2	2.19	ug/L	109.5	
SPI02	Q1240474	A554400	ALDRIN	0	2	1.94	ug/L	97	
SPI02	Q1240474	A554400	METOLACHLOR	0	2	2.11	ug/L	105.5	
SPI02	Q1240474	A554400	CHLOROPYRIFOS (DURSBAN)	0	2	2.14	ug/L	107	
SPI02	Q1240474	A554400	OCPA (DACTHAL)	0	2	2.44	ug/L	122	
SPI02	Q1240474	A554400	CYANAZINE (BLADEX)	0	2	! 2.62	ug/L	131	
SPI02	Q1240474	A554400	TRIADIMEFON	0	2	2.29	ug/L	114.5	
SPI02	Q1240474	A554400	DIPHENAMID	0	2	1.84	ug/L	92	
SPI02	Q1240474	A554400	MGK 264	0	1	0.93	ug/L	93	
SPI02	Q1240474	A554400	PENDIMETHALIN	0	2	1.9	ug/L	95	
SPI02	Q1240474	A554400	HEPTACHLOR EPOXIDE	0	2	2.1	ug/L	105	
SPI02	Q1240474	A554400	2,2',3',4,6-PENTACHLOROBIPHENYL	0	2	1.96	ug/L	98	
SPI02	Q1240474	A554400	GAMMA-CHLORDANE	0	2	2.21	ug/L	110.5	
SPI02	Q1240474	A554400	STIROFOS	0	2	2.1	ug/L	105	
SPI02	Q1240474	A554400	BUTACHLOR	0	2	2.21	ug/L	110.5	
SPI02	Q1240474	A554400	ALPHA-CHLORDANE	0	2	2.19	ug/L	109.5	
SPI02	Q1240474	A554400	ENDOSULFAN I	0	2	2.25	ug/L	112.5	
SPI02	Q1240474	A554400	TRANS-NONACHLOR	0	2	2.07	ug/L	103.5	
SPI02	Q1240474	A554400	FENAMIPHOS	0	2	2.1	ug/L	105	
SPI02	Q1240474	A554400	NAPROPAMIDE	0	2	1.92	ug/L	96	
SPI02	Q1240474	A554400	TRICYCLAZOLE	0	2	2.26	ug/L	113	
SPI02	Q1240474	A554400	4,4'-DDE	0	2	1.92	ug/L	96	
SPI02	Q1240474	A554400	2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0	2	1.78	ug/L	89	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI02	Q1240474	A554400	PYRENE	0	2	2.19	ug/L	109.5	
SPI02	Q1240474	A554400	DIELDRIN	0	2	2.32	ug/L	116	
SPI02	Q1240474	A554400	CARBOXIN	0	2	! 0.93	ug/L	46.5	
SPI02	Q1240474	A554400	ENDRIN	0	2	! 3.33	ug/L	166.5	
SPI02	Q1240474	A554400	CHLOROBENZILATE	0	2	! 3.84	ug/L	192	
SPI02	Q1240474	A554400	ENDOSULFAN II	0	2	! 3.22	ug/L	161	
SPI02	Q1240474	A554400	4,4'-DDD	0	2	! 2.62	ug/L	131	
SPI02	Q1240474	A554400	ENDRIN ALDEHYDE	0	2	2.38	ug/L	119	
SPI02	Q1240474	A554400	NORFLURAZON	0	2	! 3.11	ug/L	155.5	
SPI02	Q1240474	A554400	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT	0	2	2.54	ug/L	127	
SPI02	Q1240474	A554400	ENDOSULFAN SULFATE	0	2	! 4.38	ug/L	219	
SPI02	Q1240474	A554400	4,4'-DDT	0	2	! 2.74	ug/L	137	
SPI02	Q1240474	A554400	HEXAZINONE	0	2	2.55	ug/L	127.5	
SPI02	Q1240474	A554400	DI(2-ETHYLHEXYL)ADIPATE	0	2	2.24	ug/L	112	
SPI02	Q1240474	A554400	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0	2	2.17	ug/L	108.5	
SPI02	Q1240474	A554400	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRAC	0	2	2.19	ug/L	109.5	
SPI02	Q1240474	A554400	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN	0	2	2.06	ug/L	103	
SPI02	Q1240474	A554400	METHOXYCHLOR	0	2	! 3.2	ug/L	160	
SPI02	Q1240474	A554400	CHRYSENE	0	2	1.95	ug/L	97.5	
SPI02	Q1240474	A554400	BIS(2-ETHYLHEXYL)PHTHALATE	0.71	2	! 8.74	ug/L	401.5	
SPI02	Q1240474	A554400	FENARIMOL	0	2	2.75	ug/L	137.5	
SPI02	Q1240474	A554400	CIS-PERMETHRIN	0	1.72	2.2	ug/L	127.9	
SPI02	Q1240474	A554400	TRANS-PERMETHRIN	0	0.28	0.36	ug/L	128.6	
SPI02	Q1240474	A554400	BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR	0	2	2.27	ug/L	113.5	
SPI02	Q1240474	A554400	BENZO(K)FLUORANTHENE	0	2	2.21	ug/L	110.5	
SPI02	Q1240474	A554400	BENZO(A)PYRENE	0	2	2.36	ug/L	118	
SPI02	Q1240474	A554400	FLURIDONE	0	2	! 3.26	ug/L	163	
SPI02	Q1240474	A554400	INDENO(1,2,3-CD)PYRENE	0	2	2.1	ug/L	105	
SPI02	Q1240474	A554400	DIBENZ(A,H)ANTHRACENE	0	2	! 2.63	ug/L	131.5	
SPI02	Q1240474	A554400	BENZO(G,H,I)PERYLENE	0	2	2.44	ug/L	122	

Run: R414315 Analyst.: J MINNIEAR, II Run Date...: 07-JUN-01 Instrument: GC/MS SVOA
ANALYTICAL Reviewer: L SMITH Review-Date: 13-JUN-01

			Date and time of analysis	07-JUN-01	16:10:00				
CCVD	Q1246366		ISOPHORONE	0.9928		1.0212			2.9
CCVD	Q1246366		DICHLORVOS	0.6952		0.5422			22
CCVD	Q1246366		HEXACHLOROCYCLOPENTADIENE	0.2081		0.2406			15.6
CCVD	Q1246366		EPTC (ERADICANE)	0.4779		0.4906			2.7
CCVD	Q1246366		MEVINPHOS	0.7831		0.5231			33.2
CCVD	Q1246366		VERNOLATE	0.5505		0.5762			4.7
CCVD	Q1246366		ETRIDIAZOLE	0.1828		0.1688			7.7
CCVD	Q1246366		DIMETHYLPHTHALATE	1.3096		1.2582			3.9
CCVD	Q1246366		PEBULATE (TILLAM)	0.5550		0.5721			3.1
CCVD	Q1246366		2,6-DINITROTOLUENE	0.1455		0.1024			29.6
CCVD	Q1246366		ACENAPHTHYLENE	1.6210		1.5391			5.1
CCVD	Q1246366		CHLORNEB	0.5051		0.4876			3.5
CCVD	Q1246366		(1) 2-CHLOROBIPHENYL	1.0444		1.0009			4.2
CCVD	Q1246366		PENTACHLOROBENZENE	0.3382		0.3352			.9
CCVD	Q1246366		TEBUTHIURON	0.1590		0.0574			63.9
CCVD	Q1246366		2,4-DINITROTOLUENE	0.1149		0.0774			32.6
CCVD	Q1246366		MOLINATE	0.6774		0.7325			8.1
CCVD	Q1246366		DIETHYLPHTHALATE	1.2506		1.1434			8.6
CCVD	Q1246366		FLUORENE	1.1160		1.0741			3.8
CCVD	Q1246366		PROPACHLOR	0.6147		0.5662			7.9
CCVD	Q1246366		ETHOPROP	0.3210		0.2471			23

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVD	Q1246366		CYCLOATE	0.5755		0.5782			.5
CCVD	Q1246366		CHLOROPROPHAM	0.3287		0.2735			16.8
CCVD	Q1246366		TRIFLURALIN	0.2726		0.1731			36.5
CCVD	Q1246366		ALPHA-BHC	0.2220		0.2187			1.5
CCVD	Q1246366		(5) 2,3-DICHLOROBIPHENYL	0.6754		0.6167			8.7
CCVD	Q1246366		HEXACHLOROBENZENE	0.4481		0.4417			1.4
CCVD	Q1246366		ATRATON	0.2201		0.1735			21.2
CCVD	Q1246366		PROMETON (PRAMITOL)	0.2632		0.2389			9.2
CCVD	Q1246366		ATRAZINE	0.2702		0.2612			3.3
CCVD	Q1246366		BETA-BHC	0.1449		0.1438			.8
CCVD	Q1246366		PROPAZINE (MILOGARD)	0.2938		0.2947			.3
CCVD	Q1246366		PENTACHLOROPHENOL	0.0506		0.0751			48.4
CCVD	Q1246366		GAMMA-BHC (LINDANE)	0.1707		0.1896			11.1
CCVD	Q1246366		TERBUFOS (COUNTER)	0.3502		0.3302			5.7
CCVD	Q1246366		PRONAMIDE	0.3932		0.3800			3.4
CCVD	Q1246366		DIAZINON	0.2682		0.2800			4.4
CCVD	Q1246366		PHENANTHRENE	1.2018		1.1817			1.7
CCVD	Q1246366		CHLOROTHALONIL (BRAVO)	0.2481		0.2855			15.1
CCVD	Q1246366		DISULFOTON	0.4951		0.5366			8.4
CCVD	Q1246366		ANTHRACENE	1.0184		1.0417			2.3
CCVD	Q1246366		METHYLPARAOXON	0.0921		0.0646			29.9
CCVD	Q1246366		TERBACIL	0.2052		0.1793			12.6
CCVD	Q1246366		DELTA-BHC	0.1136		0.1345			18.4
CCVD	Q1246366		2,4,5-TRICHLOROBIPHENYL	0.4302		0.4356			1.3
CCVD	Q1246366		ACETOCHLOR	0.1607		0.1487			7.5
CCVD	Q1246366		ALACHLOR	0.2267		0.2240			1.2
CCVD	Q1246366		SIMETRYN	0.3132		0.3023			3.5
CCVD	Q1246366		AMETRYN	0.2891		0.2718			6
CCVD	Q1246366		HEPTACHLOR	0.2028		0.2168			6.9
CCVD	Q1246366		TERBUTRYN	0.2758		0.2603			5.6
CCVD	Q1246366		DI-N-BUTYLPHTHALATE	1.5524		1.5522			0
CCVD	Q1246366		BROMACIL	0.1259		0.0813			35.4
CCVD	Q1246366		2,2',4,4'-TETRACHLOROBIPHENYL	0.2812		0.2995			6.5
CCVD	Q1246366		ALDRIN	0.1571		0.1704			8.5
CCVD	Q1246366		CHLOROPYRIFOS (DURSBAN)	0.0909		0.0891			2
CCVD	Q1246366		DCPA (DACTHAL)	0.2900		0.2852			1.7
CCVD	Q1246366		CYANAZINE (BLADEX)	0.0122		0.0165			35.2
CCVD	Q1246366		TRIADIMEFON	0.2406		0.2416			.4
CCVD	Q1246366		DIPHENAMID	0.4580		0.5080			10.9
CCVD	Q1246366		MGK 264	0.1802		0.2015			11.8
CCVD	Q1246366		PENDIMETHALIN	0.1390		0.0733			47.3
CCVD	Q1246366		HEPTACHLOR EPOXIDE	0.1110		0.1228			10.6
CCVD	Q1246366		2,2',3',4,6-PENTACHLOROBIPHENYL	0.2052		0.2105			2.6
CCVD	Q1246366		GAMMA-CHLORDANE	0.1293		0.1424			10.1
CCVD	Q1246366		STIROFOS	0.1947		0.2101			7.9
CCVD	Q1246366		BUTACHLOR	0.2168		0.1965			9.4
CCVD	Q1246366		ALPHA-CHLORDANE	0.1326		0.1491			12.4
CCVD	Q1246366		TRANS-NONACHLOR	0.1286		0.1419			10.3
CCVD	Q1246366		FENAMIPHOS	0.0741		0.0428			42.2
CCVD	Q1246366		NAPROPAMIDE	0.3276		0.3894			18.9
CCVD	Q1246366		TRICYCLAZOLE	0.0413		0.0173			58.1
CCVD	Q1246366		4,4'-DDE	0.2103		0.2451			16.5
CCVD	Q1246366		2,2',4,4',5,6'-HEXACHLOROBIPHENYL	0.1683		0.1862			10.6
CCVD	Q1246366		PYRENE	2.2584		2.0867			7.6

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVD	Q1246366		DIELDRIN	0.4856		0.4249			12.5
CCVD	Q1246366		CARBOXIN	0.5480		0.4645			15.2
CCVD	Q1246366		ENDRIN	0.0986		0.0872			11.6
CCVD	Q1246366		CHLOROBENZILATE	0.4544		0.2390			47.4
CCVD	Q1246366		4,4'-DDD	0.7688		0.6789			11.7
CCVD	Q1246366		ENDRIN ALDEHYDE	0.1443		0.1324			8.2
CCVD	Q1246366		NORFLURAZON	0.1677		0.1395			16.8
CCVD	Q1246366		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT	0.8221		0.7266			11.6
CCVD	Q1246366		ENDOSULFAN SULFATE	0.0940		0.1025			9
CCVD	Q1246366		4,4'-DDT	0.5218		0.4641			11.1
CCVD	Q1246366		HEXAZINONE	0.4575		0.4398			3.9
CCVD	Q1246366		DI(2-ETHYLHEXYL)ADIPATE	0.7478		0.6260			16.3
CCVD	Q1246366		2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	0.1787		0.1624			9.1
CCVD	Q1246366		2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN	0.2157		0.1994			7.6
CCVD	Q1246366		METHOXYCHLOR	0.8056		0.6528			19
CCVD	Q1246366		CHRYSENE	1.2176		1.2028			1.2
CCVD	Q1246366		BIS(2-ETHYLHEXYL)PHTHALATE	1.0622		0.8430			20.6
CCVD	Q1246366		FENARIMOL	0.1216		0.0886			27.1
CCVD	Q1246366		CIS-PERMETHRIN	1.0768		1.0377			3.6
CCVD	Q1246366		TRANS-PERMETHRIN	1.0747		0.8529			20.6
CCVD	Q1246366		BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR	0.8540		0.8116			5
CCVD	Q1246366		BENZO(K)FLUORANTHENE	0.8670		0.8615			.6
CCVD	Q1246366		BENZO(A)PYRENE	0.6460		0.6042			6.5
CCVD	Q1246366		FLURIDONE	0.1285		0.0676			47.4
CCVD	Q1246366		INDENO(1,2,3-CD)PYRENE	0.5148		0.4064			21.1
CCVD	Q1246366		DIBENZ(A,H)ANTHRACENE	0.4204		0.3106			26.1
CCVD	Q1246366		BENZO(G,H,I)PERYLENE	0.5076		0.3730			26.5
CCVD	Q1246366		2-NITRO-M-XYLENE	0.2507		0.2576			2.8
CCVD	Q1246366		TRIPHENYL ESTER PHOSPHORIC ACID	0.3194		0.2817			11.8
CCVD	Q1246366		PERYLENE-D12	0.6763		0.6412			5.2
			Date and time of analysis	07-JUN-01	17:19:00				
BLA02	Q1244193		ISOPHORONE			BDL 0.10	ug/L		
BLA02	Q1244193		DICHLORVOS			BDL 0.10	ug/L		
BLA02	Q1244193		HEXACHLOROCYCLOPENTADIENE			BDL 0.10	ug/L		
BLA02	Q1244193		EPTC (ERADICANE)			BDL 0.10	ug/L		
BLA02	Q1244193		MEVINPHOS			BDL 0.10	ug/L		
BLA02	Q1244193		VERNOLATE			BDL 0.10	ug/L		
BLA02	Q1244193		ETRIDIAZOLE			BDL 0.10	ug/L		
BLA02	Q1244193		DIMETHYLPHTHALATE			BDL 0.10	ug/L		
BLA02	Q1244193		PEBULATE (TILLAM)			BDL 0.10	ug/L		
BLA02	Q1244193		2,6-DINITROTOLUENE			BDL 0.10	ug/L		
BLA02	Q1244193		ACENAPHTHYLENE			BDL 0.10	ug/L		
BLA02	Q1244193		CHLORNEB			BDL 0.10	ug/L		
BLA02	Q1244193		(1) 2-CHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1244193		PENTACHLOROBENZENE			BDL 0.10	ug/L		
BLA02	Q1244193		TEBUTHIURON			BDL 0.10	ug/L		
BLA02	Q1244193		2,4-DINITROTOLUENE			BDL 0.10	ug/L		
BLA02	Q1244193		MOLINATE			BDL 0.10	ug/L		
BLA02	Q1244193		DIETHYLPHTHALATE			BDL 0.10	ug/L		
BLA02	Q1244193		FLUORENE			BDL 0.10	ug/L		
BLA02	Q1244193		PROPACHLOR			BDL 0.10	ug/L		
BLA02	Q1244193		ETHOPROP			BDL 0.10	ug/L		
BLA02	Q1244193		CYCLOATE			BDL 0.10	ug/L		
BLA02	Q1244193		CHLOROPROPHAM			BDL 0.10	ug/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q1244193		TRIFLURALIN			BDL 0.10	ug/L		
BLA02	Q1244193		ALPHA-BHC			BDL 0.10	ug/L		
BLA02	Q1244193		(5) 2,3-DICHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1244193		HEXACHLOROBENZENE			BDL 0.10	ug/L		
BLA02	Q1244193		ATRATON			BDL 0.10	ug/L		
BLA02	Q1244193		PROMETON (PRAMITOL)			BDL 0.10	ug/L		
BLA02	Q1244193		ATRAZINE			BDL 0.20	ug/L		
BLA02	Q1244193		BETA-BHC			BDL 0.10	ug/L		
BLA02	Q1244193		PROPAZINE (MILOGARD)			BDL 0.10	ug/L		
BLA02	Q1244193		PENTACHLOROPHENOL			BDL 0.40	ug/L		
BLA02	Q1244193		GAMMA-BHC (LINDANE)			BDL 0.10	ug/L		
BLA02	Q1244193		TERBUFOS (COUNTER)			BDL 0.10	ug/L		
BLA02	Q1244193		PRONAMIDE			BDL 0.10	ug/L		
BLA02	Q1244193		DIAZINON			BDL 0.10	ug/L		
BLA02	Q1244193		PHENANTHRENE			BDL 0.10	ug/L		
BLA02	Q1244193		CHLOROTHALONIL (BRAVO)			BDL 0.10	ug/L		
BLA02	Q1244193		DISULFOTON			BDL 0.10	ug/L		
BLA02	Q1244193		ANTHRACENE			BDL 0.10	ug/L		
BLA02	Q1244193		METHYLPARAOXON			BDL 0.10	ug/L		
BLA02	Q1244193		TERBACIL			BDL 0.10	ug/L		
BLA02	Q1244193		DELTA-BHC			BDL 0.10	ug/L		
BLA02	Q1244193		2,4,5-TRICHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1244193		ACETOCHLOR			BDL 0.10	ug/L		
BLA02	Q1244193		ALACHLOR			BDL 0.20	ug/L		
BLA02	Q1244193		SIMETRYN			BDL 0.10	ug/L		
BLA02	Q1244193		AMETRYN			BDL 0.10	ug/L		
BLA02	Q1244193		HEPTACHLOR			BDL 0.10	ug/L		
BLA02	Q1244193		TERBUTRYN			BDL 0.10	ug/L		
BLA02	Q1244193		DI-N-BUTYLPHTHALATE			0.13	ug/L		
BLA02	Q1244193		BROMACIL			BDL 0.10	ug/L		
BLA02	Q1244193		2,2',4,4'-TETRACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1244193		ALDRIN			BDL 0.10	ug/L		
BLA02	Q1244193		CHLOROPYRIFOS (DURSBAN)			BDL 0.10	ug/L		
BLA02	Q1244193		DCPA (DACTHAL)			BDL 0.10	ug/L		
BLA02	Q1244193		CYANAZINE (BLADEX)			BDL 0.10	ug/L		
BLA02	Q1244193		TRIADIMEFON			BDL 0.10	ug/L		
BLA02	Q1244193		DIPHENAMID			BDL 0.10	ug/L		
BLA02	Q1244193		MGK 264			BDL 0.05	ug/L		
BLA02	Q1244193		PENDIMETHALIN			BDL 0.10	ug/L		
BLA02	Q1244193		HEPTACHLOR EPOXIDE			BDL 0.10	ug/L		
BLA02	Q1244193		2,2',3',4,6-PENTACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1244193		GAMMA-CHLORDANE			BDL 0.10	ug/L		
BLA02	Q1244193		STIROFOS			BDL 0.10	ug/L		
BLA02	Q1244193		BUTACHLOR			BDL 0.10	ug/L		
BLA02	Q1244193		ALPHA-CHLORDANE			BDL 0.10	ug/L		
BLA02	Q1244193		TRANS-NONACHLOR			BDL 0.10	ug/L		
BLA02	Q1244193		FENAMIPHOS			BDL 0.10	ug/L		
BLA02	Q1244193		NAPROPAMIDE			BDL 0.10	ug/L		
BLA02	Q1244193		TRICYCLAZOLE			BDL 0.10	ug/L		
BLA02	Q1244193		4,4'-DDE			BDL 0.10	ug/L		
BLA02	Q1244193		2,2',4,4',5,6'-HEXACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1244193		PYRENE			BDL 0.10	ug/L		
BLA02	Q1244193		DIELDRIN			BDL 0.10	ug/L		
BLA02	Q1244193		CARBOXIN			BDL 0.10	ug/L		

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q1244193		ENDRIN			BDL 0.10	ug/L		
BLA02	Q1244193		CHLOROBENZILATE			BDL 0.10	ug/L		
BLA02	Q1244193		4,4'-DDD			BDL 0.10	ug/L		
BLA02	Q1244193		ENDRIN ALDEHYDE			BDL 0.10	ug/L		
BLA02	Q1244193		NORFLURAZON			BDL 0.10	ug/L		
BLA02	Q1244193		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT			BDL 0.10	ug/L		
BLA02	Q1244193		ENDOSULFAN SULFATE			BDL 0.10	ug/L		
BLA02	Q1244193		4,4'-DDT			BDL 0.10	ug/L		
BLA02	Q1244193		HEXAZINONE			BDL 0.10	ug/L		
BLA02	Q1244193		DI(2-ETHYLHEXYL)ADIPATE			BDL 0.10	ug/L		
BLA02	Q1244193		2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL			BDL 0.10	ug/L		
BLA02	Q1244193		2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN			BDL 0.10	ug/L		
BLA02	Q1244193		METHOXYCHLOR			BDL 0.10	ug/L		
BLA02	Q1244193		CHRYSENE			BDL 0.10	ug/L		
BLA02	Q1244193		BIS(2-ETHYLHEXYL)PHTHALATE			0.16	ug/L		
BLA02	Q1244193		FENARIMOL			BDL 0.10	ug/L		
BLA02	Q1244193		CIS-PERMETHRIN			BDL 0.10	ug/L		
BLA02	Q1244193		TRANS-PERMETHRIN			BDL 0.10	ug/L		
BLA02	Q1244193		BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR			BDL 0.10	ug/L		
BLA02	Q1244193		BENZO(K)FLUORANTHENE			BDL 0.10	ug/L		
BLA02	Q1244193		BENZO(A)PYRENE			BDL 0.10	ug/L		
BLA02	Q1244193		FLURIDONE			BDL 0.10	ug/L		
BLA02	Q1244193		INDENO(1,2,3-CD)PYRENE			BDL 0.10	ug/L		
BLA02	Q1244193		DIBENZ(A,H)ANTHRACENE			BDL 0.10	ug/L		
BLA02	Q1244193		BENZO(G,H,I)PERYLENE			BDL 0.10	ug/L		
BLA02	Q1244193		2-NITRO-M-XYLENE					107	
BLA02	Q1244193		TRIPHENYL ESTER PHOSPHORIC ACID					56	
BLA02	Q1244193		PERYLENE-D12					76	
BLA02	Q1244193		DODECANE			J 0.69	ug/L		
BLA02	Q1244193		UNKNOWN			J 4.9	ug/L		
			Date and time of analysis	07-JUN-01	18:11:00				
LCS	Q1244194		ISOPHORONE	2		2.85	ug/L	142.5	
LCS	Q1244194		DICHLORVOS	2		2.17	ug/L	108.5	
LCS	Q1244194		HEXACHLOROCYCLOPENTADIENE	2		1.71	ug/L	85.5	
LCS	Q1244194		EPTC (ERADICANE)	2		2.36	ug/L	118	
LCS	Q1244194		MEVINPHOS	2		1.39	ug/L	69.5	
LCS	Q1244194		BUTYLATE	2		2.25	ug/L	112.5	
LCS	Q1244194		VERNOLATE	2		2.43	ug/L	121.5	
LCS	Q1244194		ETRIDIAZOLE	2		2.11	ug/L	105.5	
LCS	Q1244194		DIMETHYLPHTHALATE	2		2.5	ug/L	125	
LCS	Q1244194		PEBULATE (TILLAM)	2		2.35	ug/L	117.5	
LCS	Q1244194		2,6-DINITROTOLUENE	2		1.19	ug/L	59.5	
LCS	Q1244194		ACENAPHTHYLENE	2		2.57	ug/L	128.5	
LCS	Q1244194		CHLORNEB	2		2.47	ug/L	123.5	
LCS	Q1244194		(1) 2-CHLOROBIPHENYL	2		2.57	ug/L	128.5	
LCS	Q1244194		PENTACHLOROBENZENE	2		2.29	ug/L	114.5	
LCS	Q1244194		TEBUTHIURON	2		0.67	ug/L	33.5	
LCS	Q1244194		2,4-DINITROTOLUENE	2		1.06	ug/L	53	
LCS	Q1244194		MOLINATE	2		2.32	ug/L	116	
LCS	Q1244194		DIETHYLPHTHALATE	2		2.37	ug/L	118.5	
LCS	Q1244194		FLUORENE	2		2.4	ug/L	120	
LCS	Q1244194		PROPACHLOR	2		2.26	ug/L	113	
LCS	Q1244194		ETHOPROP	2		1.93	ug/L	96.5	
LCS	Q1244194		CYCLOATE	2		2.38	ug/L	119	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS	Q1244194		CHLOROPROPHAM	2		2	ug/L	100	
LCS	Q1244194		TRIFLURALIN	2		1.07	ug/L	53.5	
LCS	Q1244194		ALPHA-BHC	2		2.92	ug/L	146	
LCS	Q1244194		(5) 2,3-DICHLOROBIPHENYL	2		2.44	ug/L	122	
LCS	Q1244194		HEXACHLOROBENZENE	2		1.88	ug/L	94	
LCS	Q1244194		ATRATON	2		0.07	ug/L	3.5	
LCS	Q1244194		PROMETON (PRAMITOL)	2		0.1	ug/L	5	
LCS	Q1244194		SIMAZINE	2		1.84	ug/L	92	
LCS	Q1244194		ATRAZINE	4		4.09	ug/L	102.3	
LCS	Q1244194		BETA-BHC	2		2.28	ug/L	114	
LCS	Q1244194		PROPAZINE (MILOGARD)	2		1.87	ug/L	93.5	
LCS	Q1244194		PENTACHLOROPHENOL	8		7.93	ug/L	99.1	
LCS	Q1244194		GAMMA-BHC (LINDANE)	2		2.38	ug/L	119	
LCS	Q1244194		TERBUFOS (COUNTER)	2		2.06	ug/L	103	
LCS	Q1244194		PRONAMIDE	2		1.88	ug/L	94	
LCS	Q1244194		DIAZINON	2		1.84	ug/L	92	
LCS	Q1244194		PHENANTHRENE	2		2.05	ug/L	102.5	
LCS	Q1244194		CHLOROTHALONIL (BRAVO)	2		2.55	ug/L	127.5	
LCS	Q1244194		DISULFOTON	2		2.1	ug/L	105	
LCS	Q1244194		ANTHRACENE	2		2.15	ug/L	107.5	
LCS	Q1244194		METHYLPARAOXON	2		1.2	ug/L	60	
LCS	Q1244194		TERBACIL	2		1.66	ug/L	83	
LCS	Q1244194		DELTA-BHC	2		2.72	ug/L	136	
LCS	Q1244194		2,4,5-TRICHLOROBIPHENYL	2		2.04	ug/L	102	
LCS	Q1244194		ACETOCHLOR	2		2.04	ug/L	102	
LCS	Q1244194		METRIBUZIN	2		1.89	ug/L	94.5	
LCS	Q1244194		ALACHLOR	4		4.2	ug/L	105	
LCS	Q1244194		SIMETRYN	2		1.01	ug/L	50.5	
LCS	Q1244194		AMETRYN	2		1.27	ug/L	63.5	
LCS	Q1244194		HEPTACHLOR	2		1.88	ug/L	94	
LCS	Q1244194		PROMETRYN	2		1.64	ug/L	82	
LCS	Q1244194		TERBUTRYN	2		1.41	ug/L	70.5	
LCS	Q1244194		DI-N-BUTYLPHTHALATE	2		2.32	ug/L	116	
LCS	Q1244194		BROMACIL	2		1.34	ug/L	67	
LCS	Q1244194		2,2',4,4'-TETRACHLOROBIPHENYL	2		2.15	ug/L	107.5	
LCS	Q1244194		ALDRIN	2		2.15	ug/L	107.5	
LCS	Q1244194		METOLACHLOR	2		1.94	ug/L	97	
LCS	Q1244194		CHLOROPYRIFOS (DURSBAN)	2		1.78	ug/L	89	
LCS	Q1244194		DCPA (DACTHAL)	2		2.29	ug/L	114.5	
LCS	Q1244194		CYANAZINE (BLADEX)	2		2.49	ug/L	124.5	
LCS	Q1244194		TRIADIMEFON	2		1.91	ug/L	95.5	
LCS	Q1244194		DIPHENAMID	2		2.07	ug/L	103.5	
LCS	Q1244194		MGK 264	1		1.11	ug/L	111	
LCS	Q1244194		PENDIMETHALIN	2		0.93	ug/L	46.5	
LCS	Q1244194		HEPTACHLOR EPOXIDE	2		2.25	ug/L	112.5	
LCS	Q1244194		2,2',3',4,6-PENTACHLOROBIPHENYL	2		2.25	ug/L	112.5	
LCS	Q1244194		GAMMA-CHLORDANE	2		2.6	ug/L	130	
LCS	Q1244194		STIROFOS	2		1.71	ug/L	85.5	
LCS	Q1244194		BUTACHLOR	2		1.58	ug/L	79	
LCS	Q1244194		ALPHA-CHLORDANE	2		2.09	ug/L	104.5	
LCS	Q1244194		ENDOSULFAN I	2		2.38	ug/L	119	
LCS	Q1244194		TRANS-NONACHLOR	2		2.19	ug/L	109.5	
LCS	Q1244194		FENAMIPHOS	2		1.3	ug/L	65	
LCS	Q1244194		NAPROPAMIDE	2		2.18	ug/L	109	

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS	Q1244194		TRICYCLAZOLE	2		0.82	ug/L	41	
LCS	Q1244194		4,4'-DDE	2		2.07	ug/L	103.5	
LCS	Q1244194		2,2',4,4',5,6'-HEXACHLOROBIPHENYL	2		2.21	ug/L	110.5	
LCS	Q1244194		PYRENE	2		1.99	ug/L	99.5	
LCS	Q1244194		DIELDRIN	2		1.89	ug/L	94.5	
LCS	Q1244194		CARBOXIN	2		1.58	ug/L	79	
LCS	Q1244194		ENDRIN	2		2.53	ug/L	126.5	
LCS	Q1244194		CHLOROBENZILATE	2		1.19	ug/L	59.5	
LCS	Q1244194		ENDOSULFAN II	2		1.87	ug/L	93.5	
LCS	Q1244194		4,4'-DDD	2		1.9	ug/L	95	
LCS	Q1244194		ENDRIN ALDEHYDE	2		2.26	ug/L	113	
LCS	Q1244194		NORFLURAZON	2		1.56	ug/L	78	
LCS	Q1244194		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHT	2		1.74	ug/L	87	
LCS	Q1244194		ENDOSULFAN SULFATE	2		1.81	ug/L	90.5	
LCS	Q1244194		4,4'-DDT	2		1.76	ug/L	88	
LCS	Q1244194		HEXAZINONE	2		1.66	ug/L	83	
LCS	Q1244194		DI(2-ETHYLHEXYL)ADIPATE	2		1.62	ug/L	81	
LCS	Q1244194		2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL	2		2.01	ug/L	100.5	
LCS	Q1244194		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRAC	2		1.77	ug/L	88.5	
LCS	Q1244194		2,2',3,3',4,5',6,6'-OCTACHLOROBIPHEN	2		2.15	ug/L	107.5	
LCS	Q1244194		METHOXYCHLOR	2		1.63	ug/L	81.5	
LCS	Q1244194		CHRYSENE	2		1.95	ug/L	97.5	
LCS	Q1244194		BIS(2-ETHYLHEXYL)PHTHALATE	2		2.07	ug/L	103.5	
LCS	Q1244194		FENARIMOL	2		1.15	ug/L	57.5	
LCS	Q1244194		CIS-PERMETHRIN	1.72		1.52	ug/L	88.4	
LCS	Q1244194		TRANS-PERMETHRIN	0.28		0.2	ug/L	71.4	
LCS	Q1244194		BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR	2		1.77	ug/L	88.5	
LCS	Q1244194		BENZO(K)FLUORANTHENE	2		1.99	ug/L	99.5	
LCS	Q1244194		BENZO(A)PYRENE	2		1.93	ug/L	96.5	
LCS	Q1244194		FLURIDONE	2		0.86	ug/L	43	
LCS	Q1244194		INDENO(1,2,3-CD)PYRENE	2		1.41	ug/L	70.5	
LCS	Q1244194		DIBENZ(A,H)ANTHRACENE	2		1.59	ug/L	79.5	
LCS	Q1244194		BENZO(G,H,I)PERYLENE	2		1.82	ug/L	91	
			Date and time of analysis	07-JUN-01	21:39:00				
SAMPLE	A555261		See Cert. of Analysis, Rep: 0						

Comments

Q1244193 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: R414382 Analyst.: R SHAMP Run Date...: 07-JUN-01 Instrument: GC/MS VOA
ANALYTICAL Reviewer: L SMITH Review Date: 12-JUN-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and time of analysis	07-JUN-01	06:15:00				
CCVD	Q1246878		DICHLORODIFLUOROMETHANE	0.5713		0.4047			29.2
CCVD	Q1246878		CHLOROMETHANE	0.4178		0.3557			14.9
CCVD	Q1246878		VINYL CHLORIDE	0.4352		0.3256			25.2
CCVD	Q1246878		BROMOMETHANE	0.2935		0.2638			10.1
CCVD	Q1246878		CHLOROETHANE	0.3131		0.2390			23.7
CCVD	Q1246878		TRICHLOROFLUOROMETHANE	1.1330		1.0567			6.7
CCVD	Q1246878		1,1-DICHLOROETHENE	0.5591		0.5319			4.9

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVD	Q1246878		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.3908		0.3205			18
CCVD	Q1246878		TRANS-1,2-DICHLOROETHENE	0.6230		0.5333			14.4
CCVD	Q1246878		1,1-DICHLOROETHANE	0.9436		0.9861			4.5
CCVD	Q1246878		2,2-DICHLOROPROPANE	1.1109		1.0463			5.8
CCVD	Q1246878		CIS-1,2-DICHLOROETHENE	0.5473		0.5166			5.6
CCVD	Q1246878		CHLOROFORM	0.9534		0.9452			.9
CCVD	Q1246878		BROMOCHLOROMETHANE	0.1712		0.1463			14.5
CCVD	Q1246878		1,1,1-TRICHLOROETHANE	1.1420		1.1784			3.2
CCVD	Q1246878		1,1-DICHLOROPROPENE	0.6584		0.7352			11.7
CCVD	Q1246878		CARBON TETRACHLORIDE	2.2551		2.2569			.1
CCVD	Q1246878		1,2-DICHLOROETHANE	0.6973		0.6484			7
CCVD	Q1246878		BENZENE	3.5173		3.9330			11.8
CCVD	Q1246878		TRICHLOROETHENE	1.5515		1.3287			14.4
CCVD	Q1246878		1,2-DICHLOROPROPANE	0.4727		0.3748			20.7
CCVD	Q1246878		DIBROMOMETHANE	0.4292		0.3211			25.2
CCVD	Q1246878		CIS-1,3-DICHLOROPROPENE	1.3585		1.1524			15.2
CCVD	Q1246878		TOLUENE	4.8844		4.4940			8
CCVD	Q1246878		TRANS-1,3-DICHLOROPROPENE	0.8718		0.7118			18.4
CCVD	Q1246878		1,1,2-TRICHLOROETHANE	0.5123		0.4740			7.5
CCVD	Q1246878		1,3-DICHLOROPROPANE	0.8831		0.8920			1
CCVD	Q1246878		TETRACHLOROETHENE	2.4086		2.4424			1.4
CCVD	Q1246878		CHLOROBENZENE	2.7871		2.6895			3.5
CCVD	Q1246878		ETHYL BENZENE	1.7497		1.7970			2.7
CCVD	Q1246878		1,1,1,2-TETRACHLOROETHANE	1.1429		1.0287			10
CCVD	Q1246878		M/P-XYLENE	2.1751		2.1407			1.6
CCVD	Q1246878		O-XYLENE	1.8343		1.8590			1.3
CCVD	Q1246878		STYRENE	2.6803		2.6236			2.1
CCVD	Q1246878		ISOPROPYLBENZENE (CUMENE)	6.4372		6.9381			7.8
CCVD	Q1246878		BROMOFORM	0.5504		0.4809			12.6
CCVD	Q1246878		1,1,2,2-TETRACHLOROETHANE	0.6012		0.5637			6.2
CCVD	Q1246878		N-PROPYLBENZENE	0.9092		0.9419			3.6
CCVD	Q1246878		BROMOBENZENE	2.4238		2.3005			5.1
CCVD	Q1246878		1,3,5-TRIMETHYLBENZENE	4.7578		4.7422			.3
CCVD	Q1246878		2-CHLOROTOLUENE (O-CHLOROTOLUENE)	1.2867		1.2921			.4
CCVD	Q1246878		4-CHLOROTOLUENE (P-CHLOROTOLUENE)	1.2204		1.1927			2.3
CCVD	Q1246878		TERT-BUTYLBENZENE	5.2816		5.1117			3.2
CCVD	Q1246878		1,2,4-TRIMETHYLBENZENE	4.4321		4.1634			6.1
CCVD	Q1246878		SEC-BUTYLBENZENE	7.9354		8.0039			.9
CCVD	Q1246878		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUE	6.0683		5.7604			5.1
CCVD	Q1246878		1,3-DICHLOROBENZENE (M-DICHLOROBENZE	2.5287		2.2168			12.3
CCVD	Q1246878		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	2.3567		2.0832			11.6
CCVD	Q1246878		N-BUTYLBENZENE	3.7081		3.8451			3.7
CCVD	Q1246878		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.8353		1.5954			13.1
CCVD	Q1246878		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.1252		0.0952			24
CCVD	Q1246878		1,2,4-TRICHLOROBENZENE	1.4235		1.3945			2
CCVD	Q1246878		HEXACHLOROBUTADIENE	2.1014		2.0807			1
CCVD	Q1246878		NAPHTHALENE	0.7665		0.7400			3.5
CCVD	Q1246878		1,2,3-TRICHLOROBENZENE	0.9488		0.9752			2.8
CCVD	Q1246878		1,2,3-TRICHLOROPROPANE	0.3929		0.3608			8.2
CCVD	Q1246878		METHYL-T-BUTYL ETHER (MTBE)	0.4736		0.3604			23.9
CCVD	Q1246878		DICHLOROETHANE-D4	0.3291		0.2926			11.1
CCVD	Q1246878		TOLUENE-D8	4.2356		3.9807			6
CCVD	Q1246878		4-BROMOFLUOROBENZENE	1.9526		1.9927			2.1
			Date and time of analysis	07-JUN-01	07:14:00				
BLA01	Q1246879		DICHLORODIFLUOROMETHANE			BDL 0.50	ug/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1246879		CHLOROMETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		VINYL CHLORIDE			BDL 0.50	ug/L		
BLA01	Q1246879		BROMOMETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		CHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		TRICHLOROFLUOROMETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		1,1-DICHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1246879		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 0.50	ug/L		
BLA01	Q1246879		TRANS-1,2-DICHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1246879		1,1-DICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		2,2-DICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1246879		CIS-1,2-DICHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1246879		CHLOROFORM			BDL 0.50	ug/L		
BLA01	Q1246879		BROMOCHLOROMETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		1,1,1-TRICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		1,1-DICHLOROPROPENE			BDL 0.50	ug/L		
BLA01	Q1246879		CARBON TETRACHLORIDE			BDL 0.50	ug/L		
BLA01	Q1246879		1,2-DICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		BENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		TRICHLOROETHENE			BDL 0.20	ug/L		
BLA01	Q1246879		1,2-DICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1246879		DIBROMOMETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		CIS-1,3-DICHLOROPROPENE			BDL 0.50	ug/L		
BLA01	Q1246879		TOLUENE			BDL 0.50	ug/L		
BLA01	Q1246879		TRANS-1,3-DICHLOROPROPENE			BDL 0.50	ug/L		
BLA01	Q1246879		1,1,2-TRICHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		1,3-DICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1246879		TETRACHLOROETHENE			BDL 0.50	ug/L		
BLA01	Q1246879		CHLOROBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		ETHYL BENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		1,1,1,2-TETRACHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		M/P-XYLENE			BDL 0.50	ug/L		
BLA01	Q1246879		O-XYLENE			BDL 0.50	ug/L		
BLA01	Q1246879		STYRENE			BDL 0.50	ug/L		
BLA01	Q1246879		ISOPROPYLBENZENE (CUMENE)			BDL 0.50	ug/L		
BLA01	Q1246879		BROMOFORM			BDL 0.50	ug/L		
BLA01	Q1246879		1,1,2,2-TETRACHLOROETHANE			BDL 0.50	ug/L		
BLA01	Q1246879		N-PROPYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		BROMOBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		1,3,5-TRIMETHYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		2-CHLOROTOLUENE (O-CHLOROTOLUENE)			BDL 0.50	ug/L		
BLA01	Q1246879		4-CHLOROTOLUENE (P-CHLOROTOLUENE)			BDL 0.50	ug/L		
BLA01	Q1246879		TERT-BUTYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		1,2,4-TRIMETHYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		SEC-BUTYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUE			BDL 0.50	ug/L		
BLA01	Q1246879		1,3-DICHLOROBENZENE (M-DICHLOROBENZE			BDL 0.50	ug/L		
BLA01	Q1246879		1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 0.20	ug/L		
BLA01	Q1246879		N-BUTYLBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 0.50	ug/L		
BLA01	Q1246879		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)			BDL 0.50	ug/L		
BLA01	Q1246879		1,2,4-TRICHLOROBENZENE			BDL 0.50	ug/L		
BLA01	Q1246879		HEXACHLOROBUTADIENE			BDL 0.50	ug/L		
BLA01	Q1246879		NAPHTHALENE			BDL 0.50	ug/L		
BLAD1	Q1246879		1,2,3-TRICHLOROBENZENE			BDL 0.50	ug/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1246879		1,2,3-TRICHLOROPROPANE			BDL 0.50	ug/L		
BLA01	Q1246879		METHYL-T-BUTYL ETHER (MTBE)			BDL 0.50	ug/L		
BLA01	Q1246879		DICHLOROETHANE-D4					80	
BLA01	Q1246879		TOLUENE-D8					93	
BLA01	Q1246879		4-BROMOFLUOROBENZENE					112	
			Date and time of analysis	07-JUN-01	08:10:00				
LCS01	Q1246880	SUPELCO	BENZENE	5		5.96	ug/L	119.2	
LCS01	Q1246880	SUPELCO	CARBON TETRACHLORIDE	5		4.99	ug/L	99.8	
LCS01	Q1246880	SUPELCO	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	5		5.72	ug/L	114.4	
LCS01	Q1246880	SUPELCO	1,2-DICHLOROETHANE	5		5.8	ug/L	116	
LCS01	Q1246880	SUPELCO	1,1-DICHLOROETHENE	5		4.32	ug/L	86.4	
LCS01	Q1246880	SUPELCO	1,1,1-TRICHLOROETHANE	5		4.46	ug/L	89.2	
LCS01	Q1246880	SUPELCO	TRICHLOROETHENE	5		5.62	ug/L	112.4	
LCS01	Q1246880	SUPELCO	VINYL CHLORIDE	5		4.59	ug/L	91.8	
LCS01	Q1246880	SUPELCO	BROMOBENZENE	5		5.78	ug/L	115.6	
LCS01	Q1246880	SUPELCO	BROMODICHLOROMETHANE	5		5.9	ug/L	118	
LCS01	Q1246880	SUPELCO	BROMOFORM	5		5.77	ug/L	115.4	
LCS01	Q1246880	SUPELCO	BROMOMETHANE	5		5.72	ug/L	114.4	
LCS01	Q1246880	SUPELCO	CHLOROBENZENE	5		5.11	ug/L	102.2	
LCS01	Q1246880	SUPELCO	CHLOROETHANE	5		4.55	ug/L	91	
LCS01	Q1246880	SUPELCO	CHLOROFORM	5		5.16	ug/L	103.2	
LCS01	Q1246880	SUPELCO	CHLOROMETHANE	5		4.26	ug/L	85.2	
LCS01	Q1246880	SUPELCO	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	5		5.68	ug/L	113.6	
LCS01	Q1246880	SUPELCO	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	5		5.43	ug/L	108.6	
LCS01	Q1246880	SUPELCO	DIBROMOMETHANE	5		6	ug/L	120	
LCS01	Q1246880	SUPELCO	1,3-DICHLOROBENZENE (M-DICHLOROBENZE	5		5.38	ug/L	107.6	
LCS01	Q1246880	SUPELCO	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	5		5.56	ug/L	111.2	
LCS01	Q1246880	SUPELCO	TRANS-1,2-DICHLOROETHENE	5		4.16	ug/L	83.2	
LCS01	Q1246880	SUPELCO	CIS-1,2-DICHLOROETHENE	5		4.53	ug/L	90.6	
LCS01	Q1246880	SUPELCO	DICHLOROMETHANE (METHYLENE CHLORIDE)	5		4.6	ug/L	92	
LCS01	Q1246880	SUPELCO	1,1-DICHLOROETHANE	5		5.08	ug/L	101.6	
LCS01	Q1246880	SUPELCO	1,1-DICHLOROPROPENE	5		5.64	ug/L	112.8	
LCS01	Q1246880	SUPELCO	1,2-DICHLOROPROPANE	5		5.97	ug/L	119.4	
LCS01	Q1246880	SUPELCO	1,3-DICHLOROPROPANE	5		5.26	ug/L	105.2	
LCS01	Q1246880	SUPELCO	CIS-1,3-DICHLOROPROPENE	5		5.74	ug/L	114.8	
LCS01	Q1246880	SUPELCO	TRANS-1,3-DICHLOROPROPENE	5		4.87	ug/L	97.4	
LCS01	Q1246880	SUPELCO	2,2-DICHLOROPROPANE	5		4.07	ug/L	81.4	
LCS01	Q1246880	SUPELCO	ETHYL BENZENE	5		5.17	ug/L	103.4	
LCS01	Q1246880	SUPELCO	STYRENE	5		5.7	ug/L	114	
LCS01	Q1246880	SUPELCO	1,1,2-TRICHLOROETHANE	5		4.79	ug/L	95.8	
LCS01	Q1246880	SUPELCO	1,1,1,2-TETRACHLOROETHANE	5		5.09	ug/L	101.8	
LCS01	Q1246880	SUPELCO	1,1,2,2-TETRACHLOROETHANE	5		5.95	ug/L	119	
LCS01	Q1246880	SUPELCO	TETRACHLOROETHENE	5		4.05	ug/L	81	
LCS01	Q1246880	SUPELCO	1,2,3-TRICHLOROPROPANE	5		5.05	ug/L	101	
LCS01	Q1246880	SUPELCO	TOLUENE	5		4.95	ug/L	99	
LCS01	Q1246880	SUPELCO	O-XYLENE	5		5.8	ug/L	116	
LCS01	Q1246880	SUPELCO	M/P-XYLENE	10		11	ug/L	110	
LCS01	Q1246880	SUPELCO	BROMOCHLOROMETHANE	5		4.77	ug/L	95.4	
LCS01	Q1246880	SUPELCO	N-BUTYLBENZENE	5		5.26	ug/L	105.2	
LCS01	Q1246880	SUPELCO	DICHLORODIFLUOROMETHANE	5		3.79	ug/L	75.8	
LCS01	Q1246880	SUPELCO	TRICHLOROFLUOROMETHANE	5		4.07	ug/L	81.4	
LCS01	Q1246880	SUPELCO	HEXACHLOROBUTADIENE	5		4.62	ug/L	92.4	
LCS01	Q1246880	SUPELCO	ISOPROPYLBENZENE (CUMENE)	5		5.6	ug/L	112	
LCS01	Q1246880	SUPELCO	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUE	5		5.18	ug/L	103.6	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS01	Q1246880	SUPELCO	NAPHTHALENE	5		6.21	ug/L	124.2	
LCS01	Q1246880	SUPELCO	N-PROPYLBENZENE	5		5.06	ug/L	101.2	
LCS01	Q1246880	SUPELCO	SEC-BUTYLBENZENE	5		5.17	ug/L	103.4	
LCS01	Q1246880	SUPELCO	TERT-BUTYLBENZENE	5		4.85	ug/L	97	
LCS01	Q1246880	SUPELCO	1,2,3-TRICHLOROBENZENE	5		6.33	ug/L	126.6	
LCS01	Q1246880	SUPELCO	1,2,4-TRICHLOROBENZENE	5		5.58	ug/L	111.6	
LCS01	Q1246880	SUPELCO	1,2,4-TRIMETHYLBENZENE	5		5.37	ug/L	107.4	
LCS01	Q1246880	SUPELCO	1,3,5-TRIMETHYLBENZENE	5		5.32	ug/L	106.4	
			Date and time of analysis	07-JUN-01	09:26:00				
SAMPLE	A555261		See Cert. of Analysis, Rep: 0						

CARBAMATE HERBICIDES BY HPLC EPA 531.1 REV. 3.1 — 0605.0

Run: R414624 Analyst.: A SAUERLAND Run Date...: 13-JUN-01 Instrument: HPLC
ANALYTICAL Reviewer: S BROTHERTON Review Date: 15-JUN-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1248436		CARBOFURAN			BDL 4	ug/L		
BLA01	Q1248436		OXAMYL (VYDATE)			BDL 20	ug/L		
LFB01	Q1248437		CARBOFURAN	10		10.4	ug/L	104	
LFB01	Q1248437		OXAMYL (VYDATE)	10		10.5	ug/L	105	
SPI01	Q1248438	A553440	CARBOFURAN	0	10	11.3	ug/L	113	
SPI01	Q1248438	A553440	OXAMYL (VYDATE)	0	10	11.3	ug/L	113	
DPS01	Q1248439	A553440	CARBOFURAN	0	10	10.3	ug/L	103	9.3
DPS01	Q1248439	A553440	OXAMYL (VYDATE)	0	10	10.5	ug/L	105	7.3
CCV	Q1248444		CARBOFURAN	40		40	ug/L	100	
CCV	Q1248444		OXAMYL (VYDATE)	40		43.4	ug/L	108.5	
SAMPLE	A555261		See Cert. of Analysis, Rep: 0						
CCV	Q1248445		CARBOFURAN	20		20	ug/L	100	
CCV	Q1248445		OXAMYL (VYDATE)	20		19.5	ug/L	97.5	

QC Sample Comments

! Outside Lab Generated Control Limits
< Less Than Lower Detection Limit
BDL Below Detection Limit
J Estimated

Approved by: 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
26-JUN-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
DK27345	A555261	30-MAY-01 16:00	01-JUN-01	25-JUN-01	DESCRIPTION: NO3-NO2; 5A VOLS; 6A SVOLS; TASK 7 507/515/53
					DESCRIPTION: DK27345