KNOTSOGUD LABORATORIES, INC.

"The Premier Laboratory for Every Analysis, Every Time and More"

Report of Analysis

Report No: 02-0301-007

Report to: Supremo Engineering

Submitted samples: All samples dated 03/01/02

Sample ID	Lab ID	Test	Result	Reporting Limit	Analysis Date
EFF #1 (09:00)	-007-1	E. Coli	<10		03/01/02 (15:00)
EFF #1	-007-2	TDS	1600	5	03/06/02
EFF #1	-007-3	Total Cyanide	0.9	0.01	03/08/02
EFF #2	-007-4	Lead	15	1	03/11/02
EFF #2	-007-5	Total Cyanide	< RL	0.01	03/08/02
EFF #3	-007-6	Lead	15	1	03/11/02
EFF #3	-007-7	Total Cyanide	2.7	0.05	03/08/02
EFF #3	-007-8	TDS	600	5	03/06/02
WELL #2	-007-9	Volatiles, EPA 8021	< RL	5	03/08/02

I hereby issue this Report of Analysis to be a true reflection of the quality of the results produced at this laboratory.

WJC for JPK
James P. Knotsogud - President

Date of Issue: 03/11/02

KNOTSOGUD LABORATORIES, INC.

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Case Narrative

Report No: 02-0301-007

Report to: Supremo Engineering

Multiple samples were submitted to the lab on March 01, 2002.

All samples were received in proper condition with the following exceptions:
NO exceptions.

All samples were analyzed according to the requested test methods with the following exceptions:
NO exceptions.

All SOP and test method Quality Control parameters were within acceptance limits with the following exceptions:
NO exceptions.

Per project requirements, some of the supporting documentation is included.

A copy of the Chain-of-Custody is an integral part of this report. If you can't find it, give me a call.

I hereby issue this Case Narrative to be a true reflection of the events concerning the receipt, handling, and analyses of the submitted samples.

Helen Hotshot – Senior Project Manager

Date of Issue: 3/11/02

CHAIN-OF-CUSTODY

KNOTSOGUD LABORATORIES, INC.
555 Main Street Your Town, NX 111222 999-555-1212

Client Name/Address:	SUPREMO ENV. MY TOWN, NY
Project Name/Number:	BIG DUMP LANDFILL #71
Sampler Name:	SAM SLIPPERY
Lab Quote No:	KLI-012001-017

Sample ID	Date	Time	Grab/ Comp	Matrix	# of cont	Cont type/vol	Required Analysis/Test	Pres check	Lab ID
EFF #1	3/01/02	09:00	G	WW	1	STER BAG	E. Coli		-007-1
↓	↓	↓	G	↓	1	P 500ML	TDS		-2
↓	↓	↓	G	↓	1	P 500ML	CN		-3
EFF #2	3/01/02	10:00	G	WW	1	P 1L	LEAD	pH <2	-4
↓	↓	↓	G	↓	1	P 500ML	CN	↓	-5
EFF #3	3/01/02	11:00	G	WW	1	P 1L	LEAD		-6
↓	↓	↓	G	↓	1	P 500ML	CN	↓	-7
↓	↓	↓	G	↓	1	P 500ML	TDS		-8
WELL #2	3/01/02	09:30	G	GW	3	VOA	VOCs 8260		↓ -9

Relinquished by: Sam Slippery	Date/Time 3/01	Received by: P. Jones - KLI	Date/Time 3/1 15:30
Relinquished by: P. Jones - KLI	Date/Time 3/1 16:45	Received by: Sally Smith	Date/Time 03/01/2002 16:48
Relinquished by:	Date/Time	Received by:	Date/Time

Comments: LAB ID ASSIGNMENT: 02-0301-007-
Sample -001 delivered to micro lab at 17:15 (SS)
CN samples put in refrig #3. TDS samples put on shelf in lab (no room in frig SS)
Shipped via: KLI DRIVER - PAM JONES
Cooler: Custody Tape: Y (N) Cooler Temp: 10 °C (Range 0 to 6) All containers intact: (Y) N

Reviewed by: HH Date: 03/04/02

TOTAL DISSOLVED SOLID (TDS) EPA METHOD 160.2 SOP: KLI_TDS_01/2002

Analyst: HST Date: 03/06/02 Therm no: 22 Temp: 175 °C

Balance check: 100 g: 100.0000 100 g + 0.001 g: 100.0000

Lab ID	Sample ID	Volume mL	Dish Wt g	First weighing g	Second weighing g	Third weighing g	Conc mg/L
BL 0306	Blank	100	77	77.0011	77.0006		<RL
0225-111-4	Pipe 7	50		77.4177	77.4063	77.4060	8120
↓ 6	Station 1	100		77.1123	77.1097	77.1096	1096
0301-007-2	Eff #1	50		77.1777	77.1650	77.1601	1601
0301-007-8	Eff #3	100		77.0603	77.0599		599
↓ Dup	↓	100	↓	77.0750	77.0748	77.0548	548
						RPD	= 8.9%

Reviewed by: HST Date: 3/7/02

Checked by: ABC Date: 3/8/02

SOP QC Summary:
Oven Temp: 180 ± 2 °C
Blank conc: < 5 mg/L
Dup RPD: < 20%
Sample weight: < 200 mg
Constant weight: < 0.5 mg diff

TOTAL CYANIDE (CN) EPA METHOD 335.2 SOP: KLI_CN_05/2001

Analyst: FDR Date: 3/8/02 Spec no: 2 Wavelength: 578 nm

Lab ID	Sample ID	Client	Volume mL	Absorbance	Conc mg/L	Dilution factor	Final Conc mg/L
S1 - 0308	0.04 mg/L		100	0.018			r=0.9968
S2 -	0.08 mg/L		100	0.044			
S3 -	0.20 mg/L		100	0.081			
S4 -	0.40 mg/L		100	0.212			
S5 -	0.80 mg/L		100	0.387			
BLK-	Method Blank		100	0.013	0.028		
LCS-	TV = 0.25		100	0.111	0.228		91%
0226-115-6	DISCH C	[redacted]	50	0.006		2	<RL x2
-7	F		50	0.005		2	x2
-9	M		50	0.005		2	x2
-11	P		100	0.007			
-12	4		25	0.150	0.307	4	1.2
0227-118-1	STR 1	[redacted]	100	0.333	0.680	2	RPD <1%
-2	2		100	0.334	~~0.475~~ 0.682		
LD -2	2		100	0.311	0.664		
CCV1- 0308	TV = 0.40		100	0.212	0.434		85% 108%
0301-005-2	PIPE 4	[redacted]	100	0.007			<RL
-3	2		100	0.006			<RL
0301-007-3	EFF 1	Superfund	100	0.440	0.899		
-5	2		50	0.006			<RL
-7	3		100	>0.7			
DIC -7			20	0.330	0.674	5	2.7
CCV2- 0308	TV = 0.50		100	0.263	0.538		108%

Reviewed by: FDR Date: 3/8/02

Checked by: ARC Date: 3/9/02

Std Soln ID: CN-123-0102 exp: _____ LCS Soln ID: CN-131-0302 exp: 4/11/02

SOP QC Summary:
Wavelength: 578 nm
$r \geq 0.995$
CCV: 90 to 110% recovery
Blank conc: < 0.02 mg/L (1 per batch of 20)
LCS: 90 to 110% recovery (1 per batch of 20)
MS: 80 to 120% recovery (1 per batch of 10)
Dup RPD: < 20% (1 per batch of 20)

METALS by FLAME AA EPA METHOD 200 SERIES SOP: KLI_FLAA_12/1999

Analyst: LBJ Date: 3/11/02 AA no: 1

Element: LEAD Lamp No: _____ Wavelength: _____ nm

Lab ID	Sample ID	Client	Absorbance	Conc mg/L	Dilution factor	Final Conc mg/L
SI-0311	10 ppm		0.250			
BLK-0311	MB		0			< RL
0226-005-1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
MS 13						
CCV-0311	5 ppm					
0228-121-3						
-4						
-7						
0301-007-4		SUPELCO	0.376	15		
-6			0.035		10	14
0303-016-1						
-2						
-7						

Reviewed by: _____ Date: _____

Checked by: _____ Date: _____

Std Soln ID: PB-17 exp: 12/02 LCS Soln ID: PB-19 exp: 01/03

SOP QC Summary:
$r \geq 0.995$
CCV: 90 to 110% recovery
Blank conc: < 1.0 mg/L (1 per batch of 20)
LCS: 90 to 110% recovery (1 per batch of 10)
MS: 80 to 120% recovery (1 per batch of 10)
Dup RPD: < 20% (1 per batch of 20)

Organics Data

8260 Volatiles Data Package

Injection Log

Directory: c:\hpchem\1\data\091598

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	38	0915001.d	1.	25ng bfb p3		15 Sep 98 17:57
2	39	0915002.d	1.	10 ppb ccv		15 Sep 98 18:33
3	40	0915003.d	1.	0.5 ppb std p5		15 Sep 98 19:10
4	40	0915004.d	1.	wash p6		15 Sep 98 19:47
5	41	0915005.d	1.	1 ppb std p10		15 Sep 98 20:25
6	42	0915006.d	1.	2 ppb std p11		15 Sep 98 21:40
7	42	0915006a.d	1.	Blank		15 Sep 98 21:03
8	7	0915007.d	1.	5 ppb std p12		15 Sep 98 22:16
9	8	0915008.d	1.	10 ppb std p13		15 Sep 98 22:53
10	9	0915009.d	1.	20 ppb std p14		15 Sep 98 23:31
11	10	0915010.d	1.	50 ppb std p15		16 Sep 98 00:08
12	11	0915011.d	1.	100/200 ppb std p16		16 Sep 98 00:45
13	12	0915012.d	1.	wash blank p4		16 Sep 98 01:22
14	13	0915013.d	1.	0.5 ppb std p5		16 Sep 98 02:00
15	14	0915014.d	1.	10 ppb icv		16 Sep 98 02:37

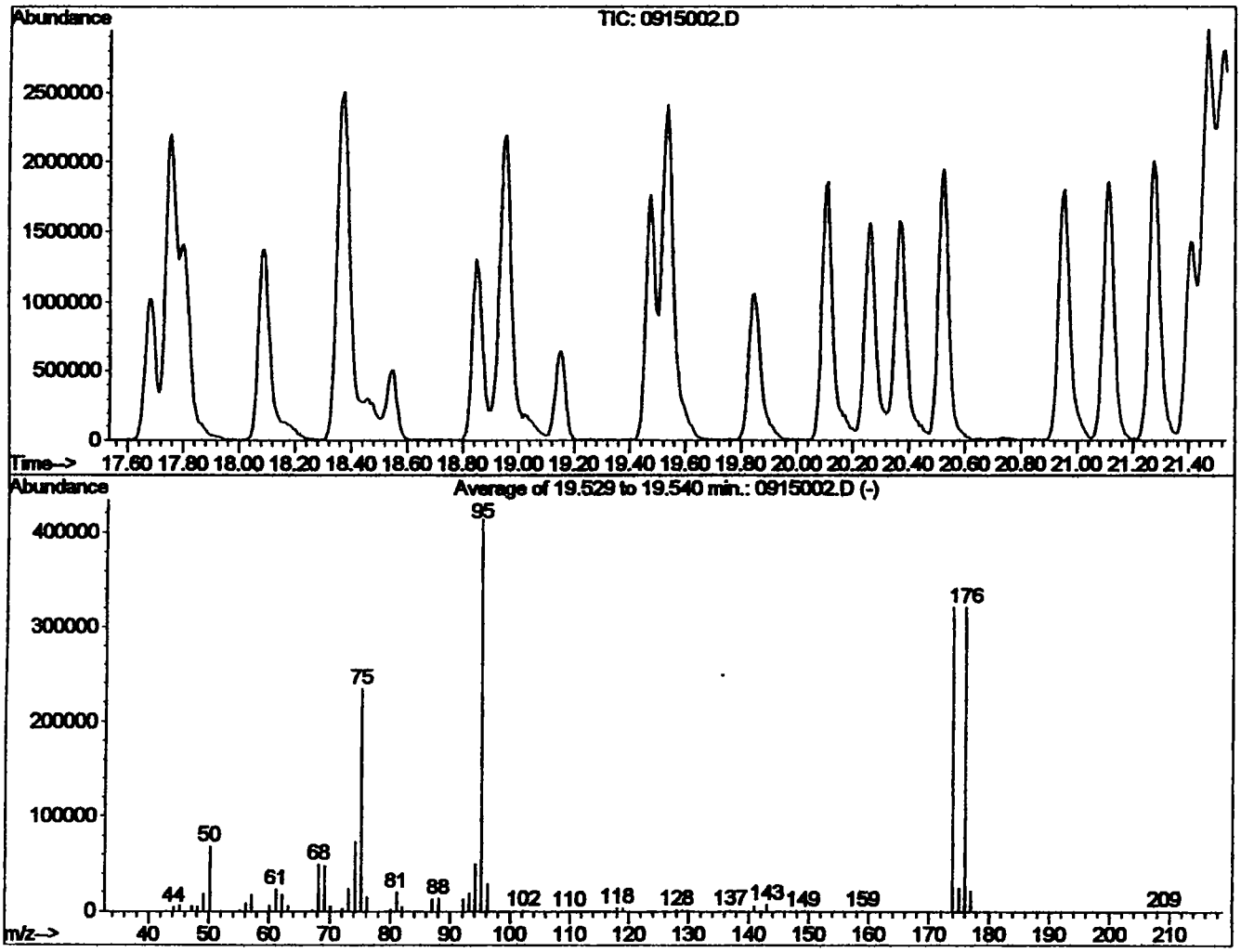
Injection Log

Directory: c:\hpchem\1\data\101198

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1011001.d	1.	25ng bfb p16		11 Oct 98 18:24
2	2	1011002.d	1.	10 ppb ccv p5		11 Oct 98 19:01
3	3	1011003.d	1.	2 ppb lcs p6		11 Oct 98 19:36
4	5	1011004.d	1.	blank p7		11 Oct 98 20:13
5	6	1011005.d	1.	Sample-1		11 Oct 98 20:50
6	7	1011006.d	1.	Sample-2		11 Oct 98 21:28
7	8	1011007.d	1.	Sample-3 1/20		11 Oct 98 22:05
8	9	1011008.d	1.	Sample-4 1/20		11 Oct 98 22:42
9	10	1011009.d	1.	Sample-5 1/10		11 Oct 98 23:19
10	11	1011010.d	1.	Sample-6		11 Oct 98 23:57
11	12	1011011.d	1.	Sample-7		12 Oct 98 00:34
12	18	1011017.d	1.	Sample-3 MS		12 Oct 98 04:18
13	19	1011018.d	1.	Sample-3 MSD		12 Oct 98 04:55

BFB

Data File : C:\HPCHEM\1\DATA\091598\0915002.D Vial: 39
Acq On : 15 Sep 98 6:33 pm Operator:
Sample : 25 ng BFB Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration



AutoFind: Scans 3139, 3140, 3141; Background Corrected with Scan 3126

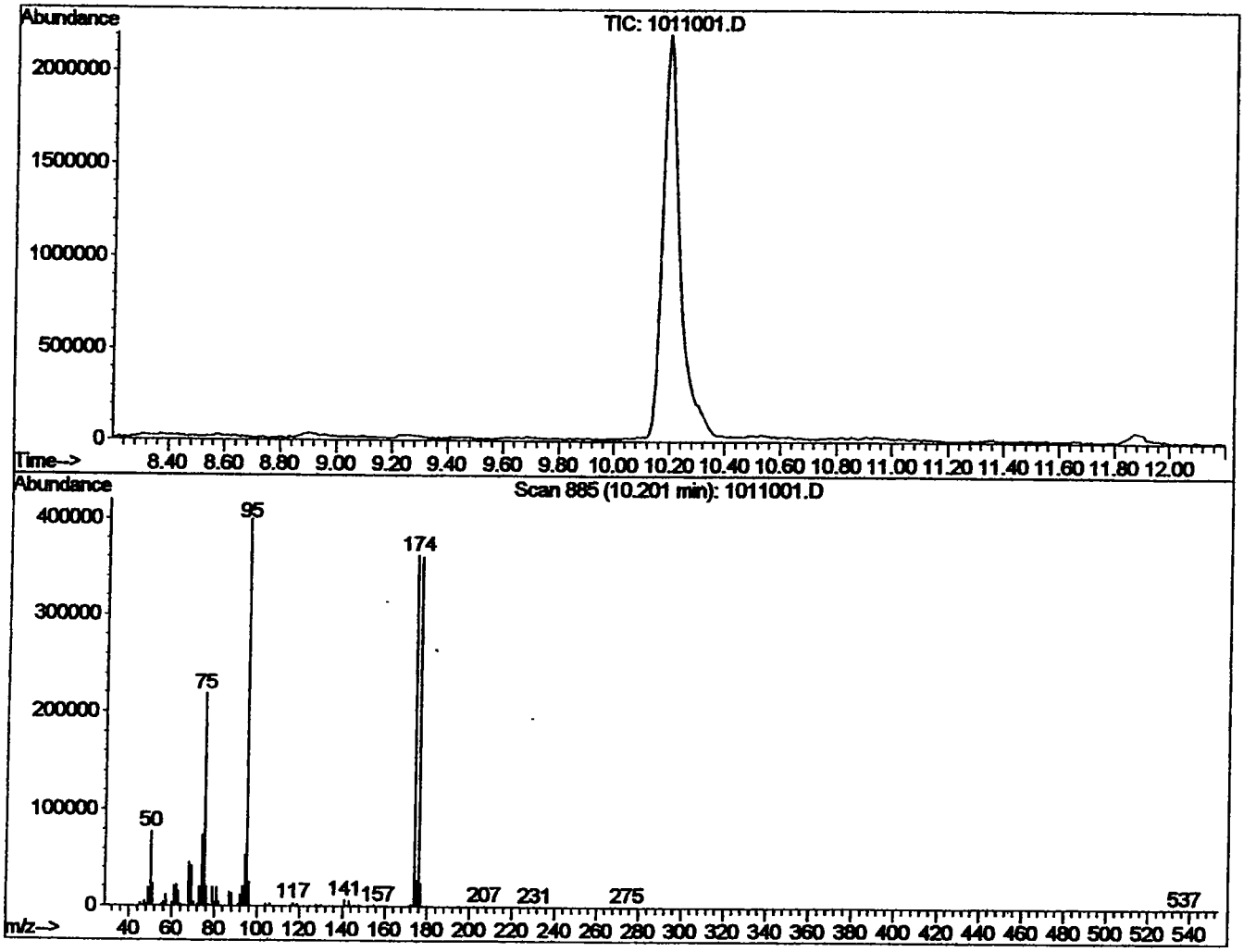
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	68656	PASS
75	95	30	60	56.6	234037	PASS
95	95	100	100	100.0	413568	PASS
96	95	5	9	7.1	29496	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.6	320960	PASS
175	174	5	9	7.7	24693	PASS
176	174	95	101	100.0	321088	PASS
177	176	5	9	6.7	21488	PASS

0915002.D 091598.M Sat Mar 23 12:39:21 2002

BFB

Data File : C:\HPCHEM\1\DATA\101198\1011001.D
Acq On : 11 Oct 98 6:24 pm
Sample : 25ng bfb p16
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration

Vial: 1
Operator:
Inst : MS03
Multiplr: 1.00



Spectrum Information: Scan 885

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	77920	PASS
75	95	30	60	54.9	219200	PASS
95	95	100	100	100.0	399616	PASS
96	95	5	9	6.3	25264	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.8	362944	PASS
175	174	5	9	7.6	27680	PASS
176	174	95	101	99.5	361280	PASS
177	176	5	9	6.7	24088	PASS

1011001.D 091598.M Sat Mar 23 10:23:44 2002

Response Factor Report MS03

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration

Calibration Files
1 =0915013.D 3 =0915006.D 5 =0915008.D
6 =0915009.D 7 =0915010.D 8 =0915011.D

		Compound	1	3	5	6	7	8	Avg	%RSD
1)	I	PENTAFLUOROBENZENE	ISTD							
2)	T	Dichlorodifluoromet	0.493	0.444	0.524	0.468	0.493	0.475	0.526	13.41
3)	T	Chloromethane	0.581	0.539	0.606	0.578	0.562	0.477	0.578	9.46
4)	TC	Vinyl Chloride	0.388	0.433	0.412	0.373	0.399	0.430	0.428	9.12#
5)	T	Bromomethane	0.588	0.467	0.468	0.427	0.445	0.408	0.481	12.48
6)	T	Chloroethane	0.281	0.224	0.294	0.274	0.298	0.265	0.291	12.52
7)		2,2-Dichloro-1,1,1-	0.750	0.590	0.822	0.786	0.733	0.682	0.780	13.25
8)	T	Trichlorofluorometh	1.553	1.151	1.399	1.297	1.279	1.238	1.413	12.71
9)		Acetone	0.307	0.236	0.252	0.252	0.246		0.247	12.98
10)	TC	1,1-Dichloroethene	0.430	0.497	0.498	0.475	0.505	0.465	0.500	9.39#
11)		Iodomethane	0.709	0.896	1.026	0.891	0.966	1.021	0.945	12.27
12)	T	Carbon Disulfide	1.260	1.233	1.138	1.192	1.185	1.278	1.338	14.76
13)	T	Freon 113	0.653	0.548	0.757	0.655	0.598	0.718	0.714	15.05
14)	T	Acrolein		0.013		0.015	0.010	0.012	0.012	13.32
15)	T	Acrylonitrile	0.206	0.165	0.196	0.173	0.153	0.167	0.170	14.21
16)	T	Methylene Chloride	0.585	0.481	0.593	0.581	0.530	0.457	0.568	12.25
17)	T	vinyl acetate	0.861	1.016	1.175	1.221	1.151		1.099	13.72
18)	T	trans-1,2-Dichloroe	0.566	0.487	0.552	0.545	0.558	0.487	0.558	9.37
19)	T	Methyl tert -Butyl	1.893	1.795	1.837	1.923	1.941		1.887	4.69
20)	T	1,1-Dichloroethane	1.010	1.081	1.121	1.171	0.905	1.094	1.090	13.49
21)	T	cis-1,2-Dichloroeth	0.648	0.629	0.806	0.811	0.754	0.658	0.746	11.39
22)	T	2,2-Dichloropropane	0.807		1.022	1.026	0.983	1.087	1.036	11.91
23)	T	Bromochloromethane	0.347	0.377	0.446	0.457	0.425	0.368	0.425	13.54
24)	TC	Chloroform	1.469	1.735	1.695	1.688	1.612	1.345	1.623	9.81#
25)	T	1,1,1-Trichloroetha	1.343	1.196	1.477	1.487	1.404	1.253	1.419	9.81
26)	T	Carbon Tetrachlorid	1.038	1.246	1.293	1.245	1.199	1.318	1.300	11.48
27)	T	1,2-Dichloroethane	1.441	1.578	1.582	1.588	1.497	1.257	1.482	11.23
28)	T	1,1-Dichloropropene	1.110	1.306	1.146	1.133	1.094	0.970	1.148	8.52
29)	S	DIBROMOFLUOROMETHAN	1.256	1.315	1.076	1.049	1.126	0.984	1.127	10.53
30)	I	1,4-DIFLUOROBENZENE	ISTD							
31)	T	2-Butanone	0.166	0.145	0.196	0.188	0.198		0.175	12.40
32)	T	Benzene	1.169	1.135	1.153	1.177	1.125	1.037	1.140	4.00
33)	T	Trichloroethene (TC	0.361	0.433	0.353	0.351	0.386	0.386	0.385	9.91
34)	TC	1,2-Dichloropropane	0.288	0.333	0.235	0.245	0.286	0.258	0.274	13.11#
35)	T	Dibromomethane	0.251	0.263	0.283	0.265	0.245	0.258	0.263	4.88
36)	T	Bromodichloromethan	0.604	0.524	0.554	0.551	0.519	0.551	0.550	4.81
37)	T	2-Chloroethyl vinyl	0.166	0.189	0.199	0.212	0.205		0.188	11.52
38)	T	cis-1,3-Dichloropro	0.426	0.453	0.514	0.510	0.486	0.538	0.490	7.76
39)	s	TOLUENE-d8	1.238	1.186	1.206	1.232	1.246	1.153	1.196	3.99
40)	T	4-Methyl-2-Pentanon	0.508	0.398	0.490	0.572	0.487		0.470	13.31

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration

Calibration Files
1 =0915013.D 3 =0915006.D 5 =0915008.D
6 =0915009.D 7 =0915010.D 8 =0915011.D

		Compound	1	3	5	6	7	8	Avg	%RSD
41)	T	trans-1,3-Dichlorop	0.379		0.426	0.515	0.521	0.487	0.480	11.99
42)	TC	Toluene	0.881		0.760	0.780	0.761	0.698	0.775	10.06#
43)	T	1,1,2-Trichloroetha	0.366	0.395	0.326	0.355	0.331	0.302	0.343	8.01
44)	I	CHLOROBENZEN-D5	ISTD							
45)	T	Tetrachloroethene (	0.602	0.644	0.492	0.498	0.498	0.514	0.545	11.71
46)	T	1,3-Dichloropropane	0.851	0.851	0.929	0.982	0.893	0.895	0.917	5.30
47)	T	Dibromochloromethan	0.596	0.739	0.726	0.756	0.799	0.889	0.737	11.57
48)	T	2-Hexanone	0.656	0.494	0.593	0.688	0.578		0.577	14.75
49)	T	1,2-Dibromoethane(E	0.481	0.582	0.628	0.656	0.589	0.692	0.595	10.80
50)	T	Chlorobenzene	1.650	1.229	1.415	1.449	1.424	1.353	1.450	8.30
51)	T	1,1,1,2-Tetrachloro	0.547	0.640	0.600	0.649	0.664	0.672	0.649	9.13
52)	TC	Ethylbenzene	0.638	0.797	0.732	0.740	0.736	0.777	0.753	6.75#
53)	T	m,p-Xylenes	1.010	1.161	0.987	0.938	0.877	1.060	1.043	10.22
54)		o-Xylene	2.353	2.551	2.513	2.393	2.240	1.999	2.421	10.40
55)	T	Bromoform	0.471	0.585	0.515	0.553	0.576	0.579	0.555	11.48
56)	t	2-Heptanone	1.084	1.228	0.969	0.998	0.952		0.979	14.02
57)	T	Styrene	1.318	1.411	1.657	1.654	1.705	1.789	1.678	12.94
58)	T	Isopropylbenzene	2.589	2.061	2.825	2.725	2.587	2.294	2.675	14.84
59)	T	Bromobenzene	0.744	0.608	0.743	0.750	0.725	0.692	0.756	12.13
60)	S	BROMOFLUOROBENZENE	0.968	1.008	1.026	0.979	0.926	0.922	0.983	5.01
61)	T	n-Propylbenzene	3.385	2.733	3.633	3.471	3.244	2.882	3.365	12.39
62)	T	2-Chlorotoluene	2.124	1.789	2.125	2.102	1.978	1.856	2.041	9.41
63)	T	1,2,3-Trichloroprop	0.703	0.571	0.700	0.745	0.684	0.672	0.669	8.91
64)	T	4-Chlorotoluene	2.337	1.750	2.269	2.207	2.080	1.921	2.180	11.57
65)	T	1,1,2,2-Tetrachloro	0.734	0.634	0.788	0.871	0.746	0.727	0.734	12.10
66)	T	1,2,4-Trimethylbenz	2.093	2.216	2.521	2.623	2.431	2.196	2.410	9.90
67)	T	tert-Butylbenzene	1.880	1.938	2.119	2.303	2.202	1.986	2.204	13.34
68)	T	1,3,5-Trimethylbenz	2.077	2.294	2.580	2.575	2.381	2.216	2.428	9.36
69)	T	sec-Butylbenzene	2.801	2.872	3.257	3.103	2.900	2.547	3.030	11.54
70)	T	1,3-Dichlorobenzene	1.517	1.680	1.393	1.407	1.333	1.249	1.468	10.54
71)	T	p-Isopropyltoluene	2.538	2.705	2.615	2.569	2.362	2.340	2.570	9.12
72)	T	1,4-Dichlorobenzene	1.517	1.591	1.444	1.475	1.348	1.311	1.477	8.83
73)	T	1,2-Dichlorobenzene	1.324	1.593	1.351	1.365	1.305	1.223	1.385	8.84
74)	T	n-Butylbenzene	2.285	2.280	2.479	2.483	2.298	2.023	2.379	9.84
75)	T	1,2-Dibromo-3-chlor	0.165		0.156	0.199	0.180	0.176	0.182	12.02
76)	T	1,2,4-Trichlorobenz	1.172	0.842	0.932	0.929	1.007	1.063	1.005	11.83
77)	T	Hexachlorobutadiene	0.506	0.574	0.547	0.564	0.599	0.633	0.592	12.09
78)	T	Naphthalene	2.570	2.344	2.106	2.208	2.020	1.909	2.205	9.16
79)	T	1,2,3-Trichlorobenz	1.030	0.983	0.820	0.901	0.883	0.964	0.956	8.86

(#) = Out of Range ### Number of calibration levels exceeded format ###

Data File : C:\HPCHEM\1\DATA\091598\0915013.D Vial: 13
Acq On : 16 Sep 98 2:00 am Operator:
Sample : 0.5 ppb std p5 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:20 19102 Quant Results File: QUANT.RES

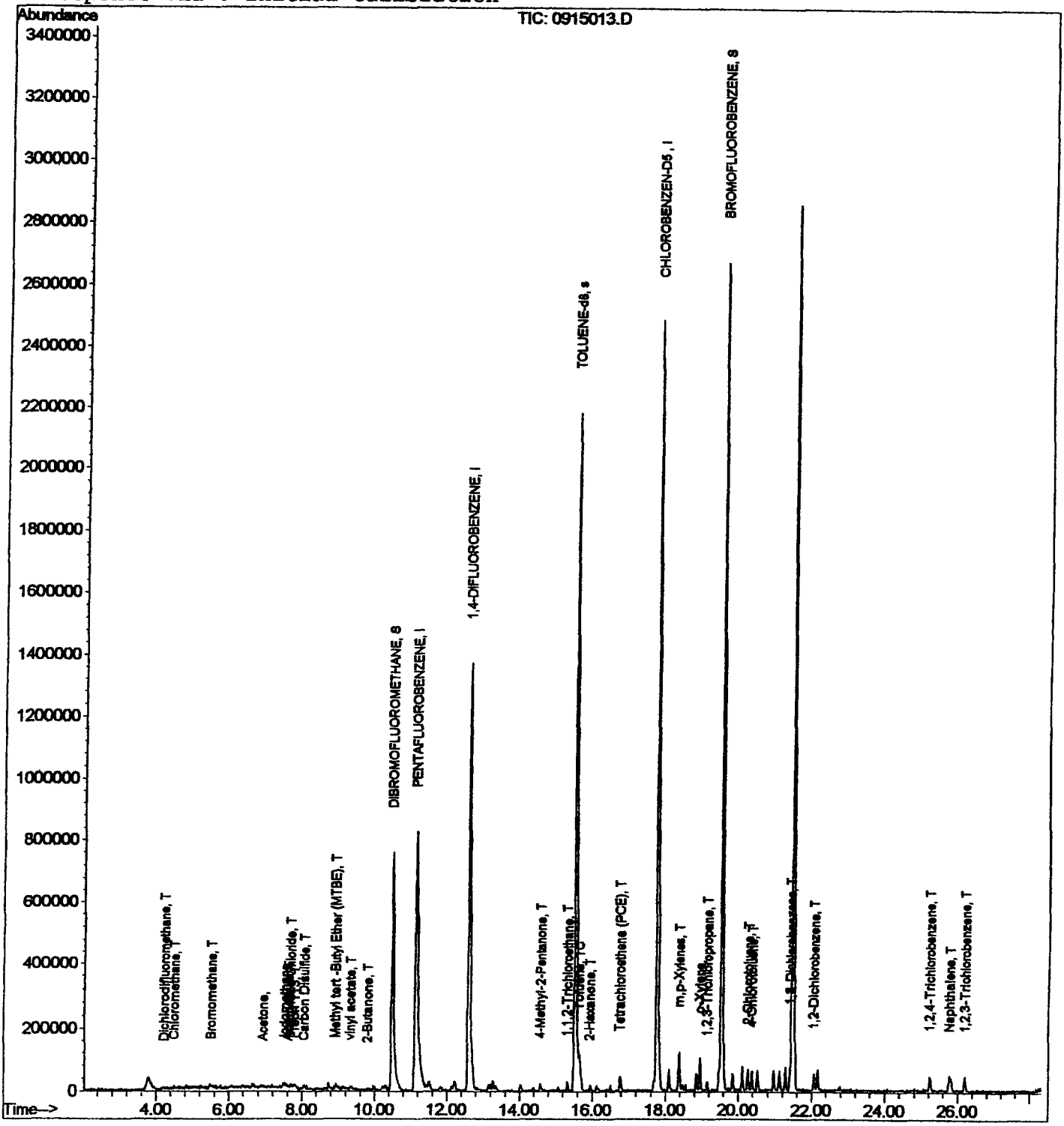
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE	11.15	99	895817	25.00 ug/l	0.01
30) 1,4-DIFLUOROBENZENE	12.61	114	2193211	25.00 ug/l	0.02
44) CHLOROBENZEN-D5	17.75	82	1453459	25.00 ug/l	0.00
System Monitoring Compounds					
29) DIBROMOFLUOROMETHANE	10.49	113	888014	23.43 ug/l	0.00
Spiked Amount 25.000			Recovery = 93.72%		
39) TOLUENE-d8	15.53	98	2714352	27.66 ug/l	0.00
Spiked Amount 25.000			Recovery = 110.64%		
60) BROMOFLUOROBENZENE	19.54	95	1407614	25.66 ug/l	0.00
Spiked Amount 25.000			Recovery = 102.64%		
Target Compounds			JF 9/16/98		Qvalue
2) Dichlorodifluoromethane	4.22	85	8832m	0.59 ug/l	98
3) Chloromethane	4.50	50	10418	0.55 ug/l #	41
5) Bromomethane	5.52	94	17531m	1.23 ug/l	95
9) Acetone	6.93	43	11005	1.71 ug/l	96
11) Iodomethane	7.54	142	18394m	0.57 ug/l	99
12) Carbon Disulfide	8.07	76	41149	0.92 ug/l	90
13) Freon 113	7.80	101	14691	0.60 ug/l	100
15) Acrylonitrile	7.64	53	3365m	0.78 ug/l	30
16) Methylene Chloride	7.69	84	10478	0.53 ug/l #	66
17) vinyl acetate	9.34	43	30856	0.82 ug/l #	78
19) Methyl tert -Butyl Ether (	8.92	73	33913	0.58 ug/l	97
31) 2-Butanone	9.81	43	14579	1.44 ug/l	78
40) 4-Methyl-2-Pentanone	14.58	43	34604	1.42 ug/l	79
42) Toluene	15.64	92	38660	0.55 ug/l	94
43) 1,1,2-Trichloroethane	15.32	97	16060	0.54 ug/l	87
45) Tetrachloroethene (PCE)	16.78	164	17510	0.51 ug/l	94
48) 2-Hexanone	15.94	43	28165m	0.67 ug/l	84
53) m,p-Xylenes	18.38	106	58723	1.10 ug/l	93
54) o-Xylene	18.95	91	68393	0.51 ug/l	98
62) 2-Chlorotoluene	20.27	91	61743	0.52 ug/l	96
63) 1,2,3-Trichloropropane	19.15	75	20423	0.51 ug/l	94
64) 4-Chlorotoluene	20.37	91	67942	0.55 ug/l	84
70) 1,3-Dichlorobenzene	21.42	146	44101	0.56 ug/l	92
72) 1,4-Dichlorobenzene	21.42	146	44101	0.55 ug/l	99
73) 1,2-Dichlorobenzene	22.06	146	38493	0.53 ug/l	96
76) 1,2,4-Trichlorobenzene	25.23	180	34076	0.61 ug/l	96
78) Naphthalene	25.78	128	74717	0.70 ug/l	100
79) 1,2,3-Trichlorobenzene	26.20	180	29934	0.58 ug/l	94

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

Data File : C:\HPCHEM\1\DATA\091598\0915013.D Vial: 13
Acq On : 16 Sep 98 2:00 am Operator:
Sample : 0.5 ppb std p5 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:20 19102 Quant Results File: QUANT.RES

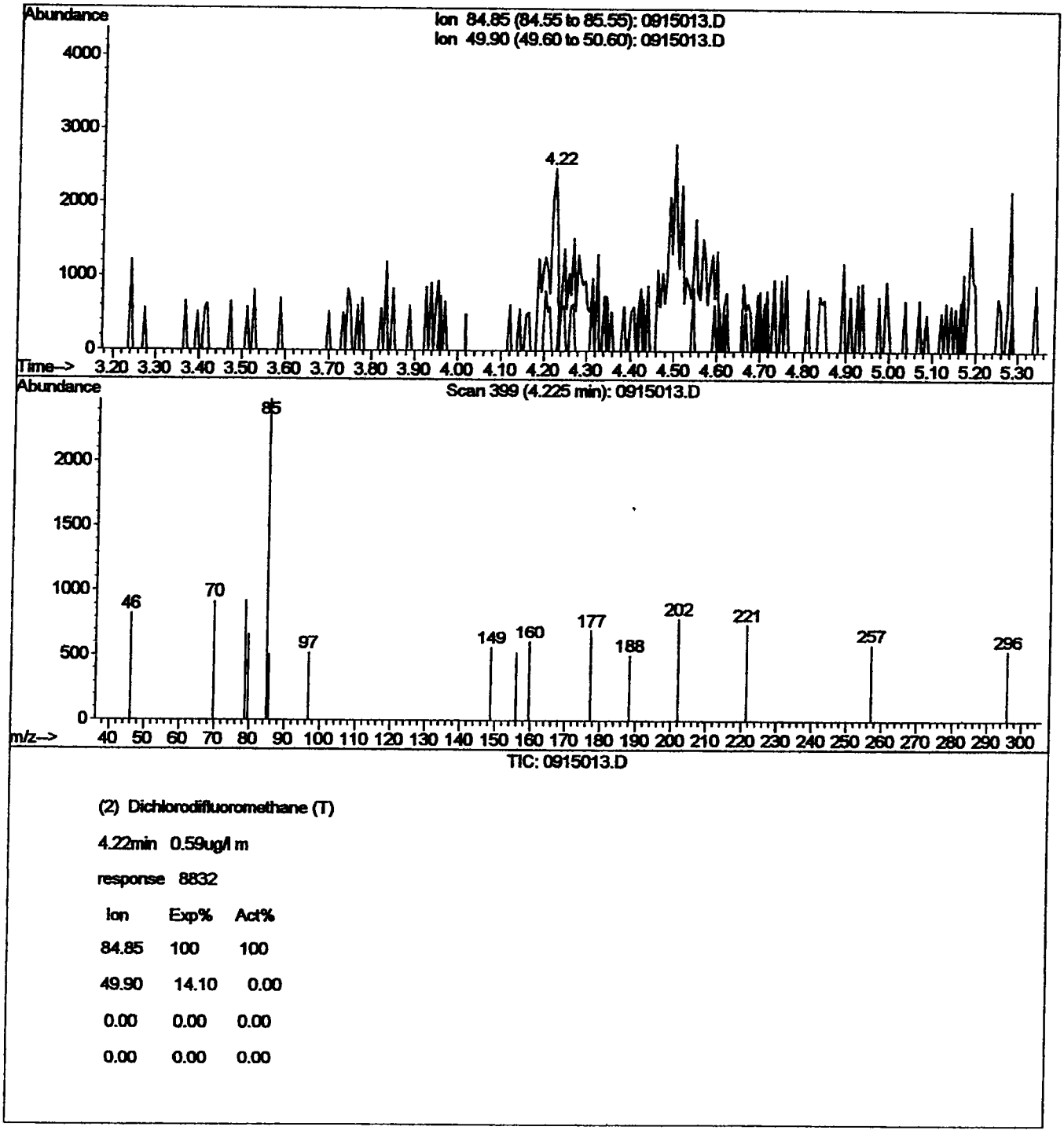
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\091598\0915013.D
Acq On : 16 Sep 98 2:00 am
Sample : 0.5 ppb std p5
Misc :
[illegible]

Vial: 13
Operator:
Inst : MS03
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane (T)

4.22min 0.59ug/l m

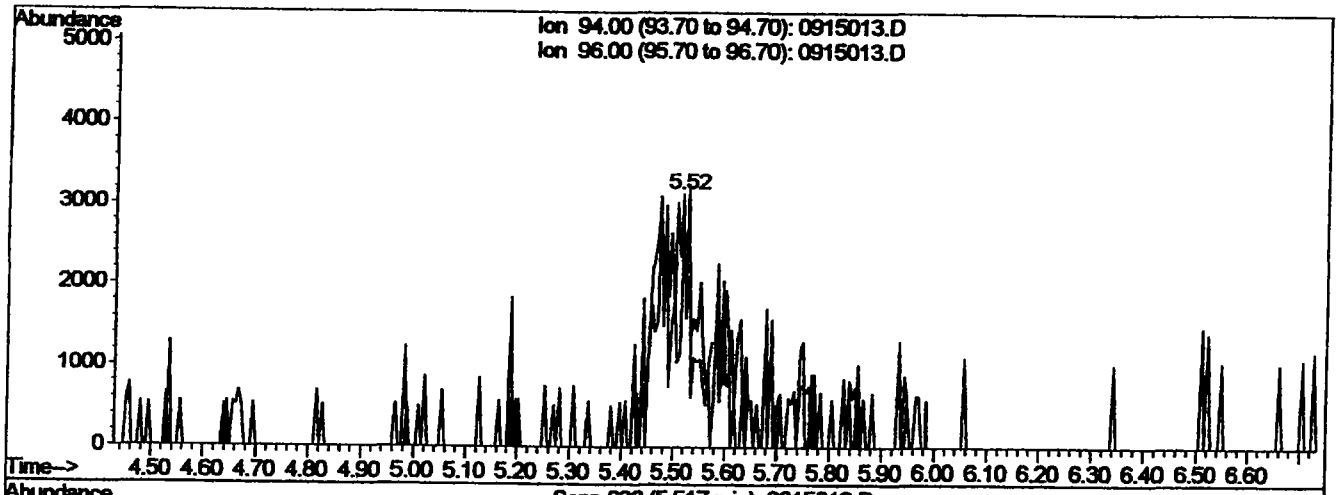
response 8832

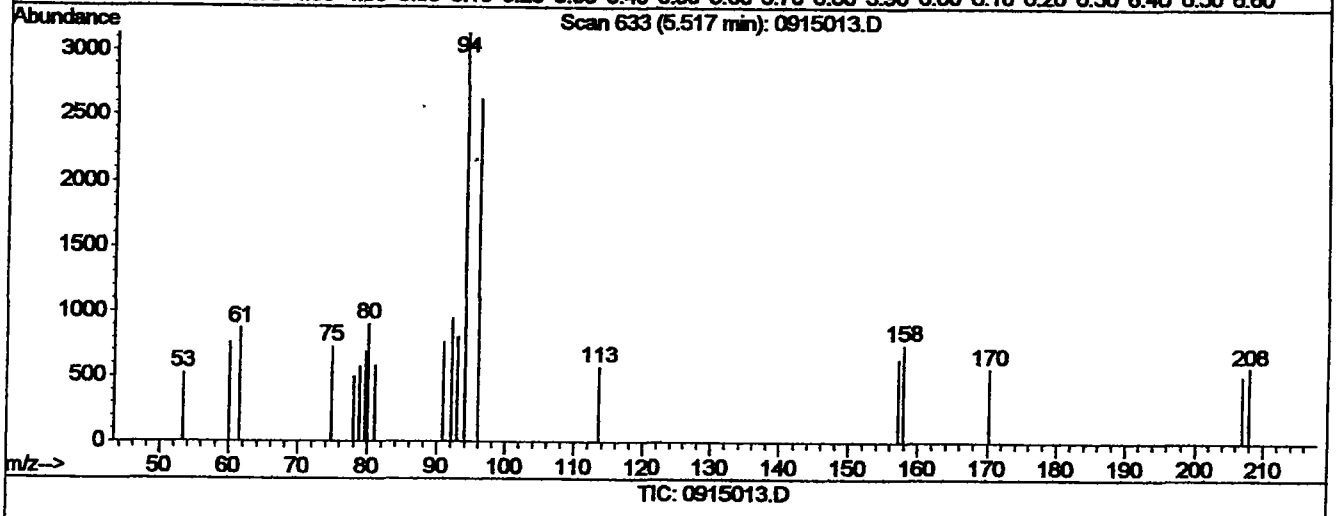
Ion	Exp%	Act%
84.85	100	100
49.90	14.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\091598\0915013.D
Acq On : 16 Sep 98 2:00 am
Sample : 0.5 ppb std p5
Misc :
[illegible]

Vial: 13
Operator:
Inst : MS03
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration





TIC: 0915013.D

(5) Bromomethane (T)

5.52min 1.23ug/l m

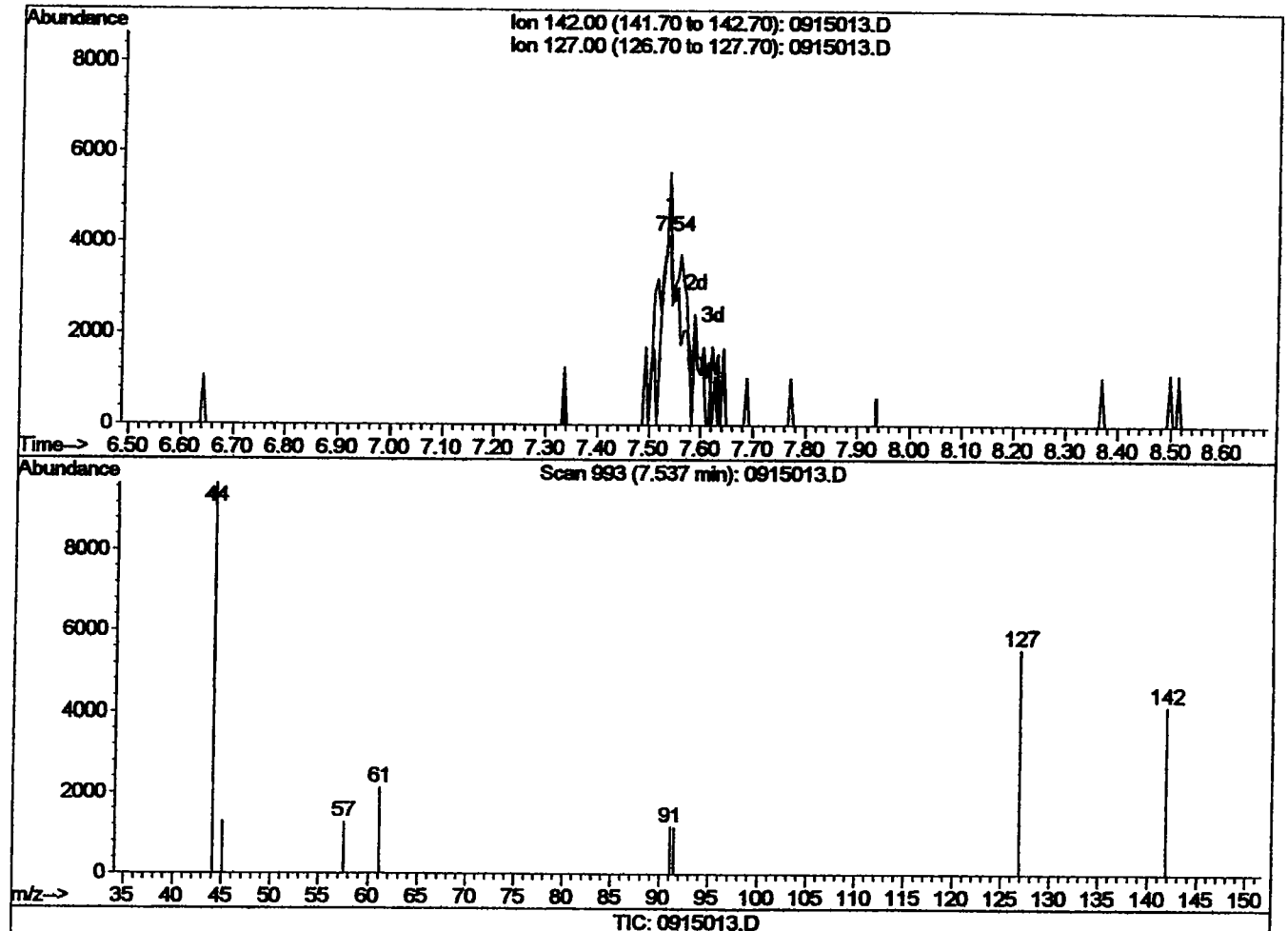
response 17531

Ion	Exp%	Act%
94.00	100	100
96.00	77.10	83.68
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\091598\0915013.D
Acq On : 16 Sep 98 2:00 am
Sample : 0.5 ppb std p5
Misc :
[illegible]

Vial: 13
Operator:
Inst : MS03
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



TIC: 0915013.D

(11) Iodomethane

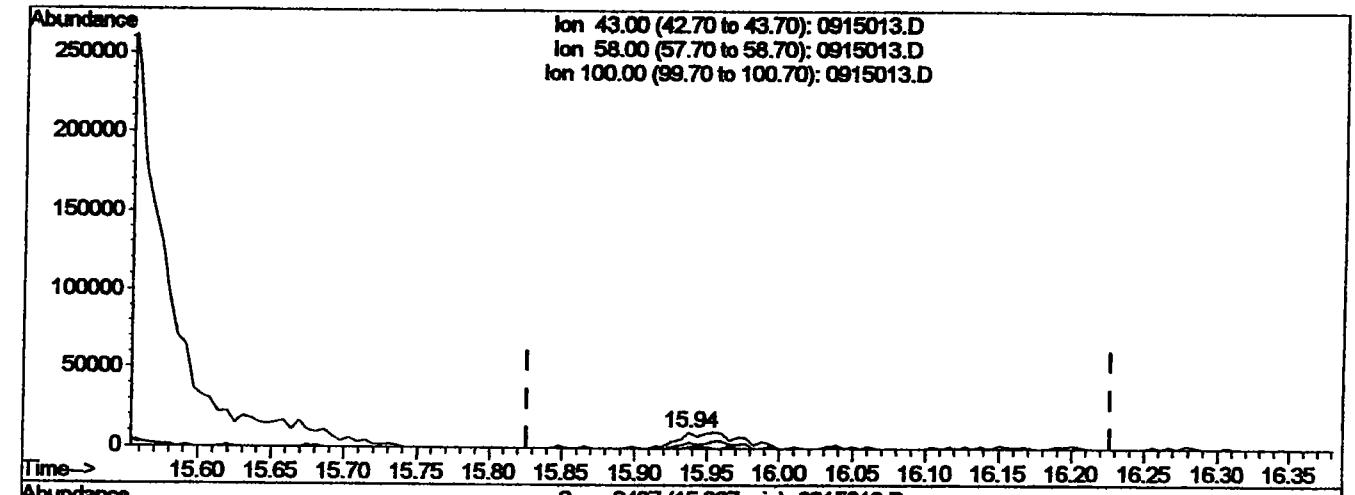
7.54min 0.57ug/l m

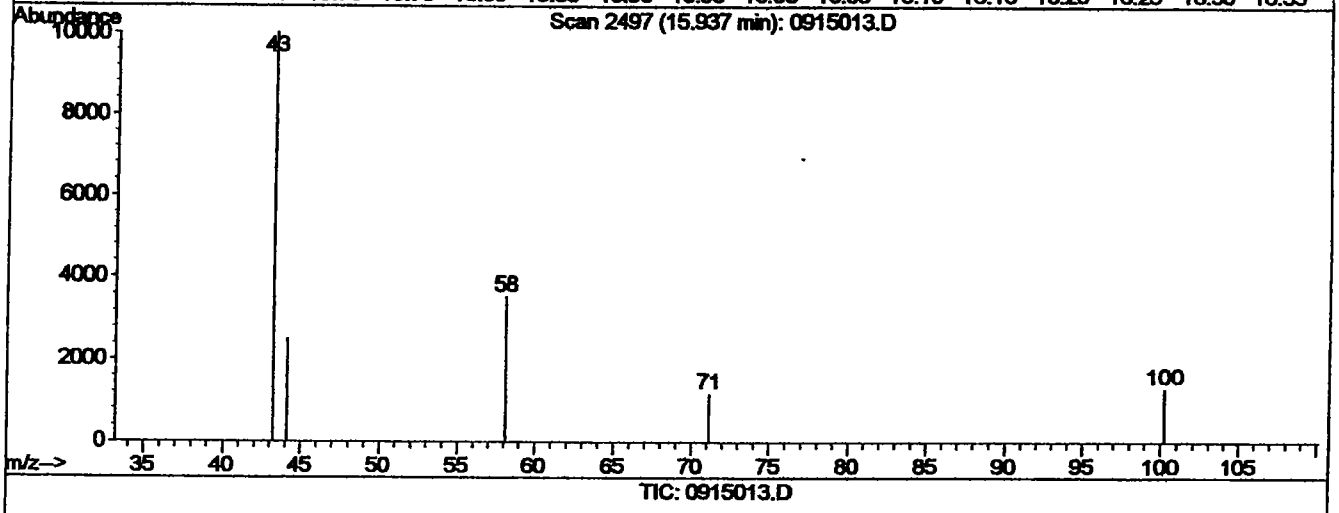
response 18394

Ion	Exp%	Act%
142.00	100	100
127.00	71.30	133.69#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\091598\0915013.D Vial: 13
Acq On : 16 Sep 98 2:00 am Operator:
Sample : 0.5 ppb std p5 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: rteint2p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration





TIC: 0915013.D

(48) 2-Hexanone (T)

15.94min 0.67ug/l m

response 28165

Ion	Exp%	Act%
43.00	100	100
58.00	43.40	35.32
100.00	12.10	13.12
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\091598\0915006.D Vial: 42
Acq On : 15 Sep 98 9:40 pm Operator:
Sample : 2 ppb std p11 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:18 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.14	99	831505	25.00	ug/l		0.00
30) 1,4-DIFLUOROBENZENE	12.60	114	1963638	25.00	ug/l		0.01
44) CHLOROBENZEN-D5	17.75	82	1238403	25.00	ug/l		0.00
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.49	113	828641	23.56	ug/l		0.00
Spiked Amount 25.000			Recovery = 94.24%				
39) TOLUENE-d8	15.52	98	2328561	26.50	ug/l		0.00
Spiked Amount 25.000			Recovery = 106.00%				
60) BROMOFLUOROBENZENE	19.53	95	1248006	26.71	ug/l		0.00
Spiked Amount 25.000			Recovery = 106.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.25	85	23530	1.69	ug/l		87
3) Chloromethane	4.50	50	28877	1.64	ug/l		70
4) Vinyl Chloride	4.85	62	21834	1.78	ug/l		85
6) Chloroethane	5.75	64	12893	1.70	ug/l		70
7) 2,2-Dichloro-1,1,1-Trifluo	6.36	83	39256	1.60	ug/l		85
8) Trichlorofluoromethane	6.64	101	66544	1.59	ug/l		93
9) Acetone	6.88	43	31347	5.24	ug/l	#	75
10) 1,1-Dichloroethene	7.47	96	21037	1.51	ug/l	#	67
11) Iodomethane	7.53	142	63154	2.11	ug/l		98
12) Carbon Disulfide	8.04	76	104040	2.52	ug/l		94
13) Freon 113	7.82	101	31450	1.38	ug/l		100
14) Acrolein	6.50	55	857	0.73	ug/l	#	36
16) Methylene Chloride	7.71	84	32025	1.75	ug/l	#	71
17) vinyl acetate	9.34	43	75106	2.15	ug/l		94
18) trans-1,2-Dichloroethene	8.74	96	32394	1.63	ug/l		93
19) Methyl tert -Butyl Ether (	8.93	73	99415	1.85	ug/l		89
20) 1,1-Dichloroethane	9.12	63	49224	1.26	ug/l		96
21) cis-1,2-Dichloroethene	9.99	96	36852	1.49	ug/l	#	74
22) 2,2-Dichloropropane	10.43	77	44396	1.55	ug/l		84
23) Bromochloromethane	10.24	128	20048	1.42	ug/l	#	51
24) Chloroform	10.31	83	85436	1.57	ug/l		87
25) 1,1,1-Trichloroethane	11.49	97	72567	1.43	ug/l		82
26) Carbon Tetrachloride	12.14	119	58862	1.25	ug/l		95
27) 1,2-Dichloroethane	11.34	62	84979	1.69	ug/l		93
28) 1,1-Dichloropropene	11.83	75	51904	1.36	ug/l		94
31) 2-Butanone	9.81	43	45583	5.02	ug/l		64
32) Benzene	12.21	78	178344	1.76	ug/l		98
33) Trichloroethene (TCE)	13.27	132	48077	1.57	ug/l		93

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

Data File : C:\HPCHEM\1\DATA\091598\0915006.D Vial: 42
Acq On : 15 Sep 98 9:40 pm Operator:
Sample : 2 ppb std p11 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:18 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34) 1,2-Dichloropropane	13.20	63	42314	1.57 ug/l		96
35) Dibromomethane	13.13	93	32426	1.63 ug/l	#	83
36) Bromodichloromethane	13.35	83	56618	1.33 ug/l		95
38) cis-1,3-Dichloropropene	14.39	75	47142	1.19 ug/l		89
40) 4-Methyl-2-Pentanone	14.58	43	94956	4.35 ug/l		89
41) trans-1,3-Dichloropropene	15.07	75	43321	1.12 ug/l		75
42) Toluene	15.64	92	100517	1.60 ug/l		87
43) 1,1,2-Trichloroethane	15.33	97	41997	1.58 ug/l		88
45) Tetrachloroethene (PCE)	16.78	164	43835	1.50 ug/l		97
46) 1,3-Dichloropropane	15.70	76	84338	1.58 ug/l		93
47) Dibromochloromethane	16.12	129	38109	0.85 ug/l		94
48) 2-Hexanone	15.94	43	77791	2.17 ug/l		90
49) 1,2-Dibromoethane(EDB)	16.51	107	42512	1.24 ug/L		91
50) Chlorobenzene	17.81	112	121800	1.48 ug/l		94
51) 1,1,1,2-Tetrachloroethane	17.68	131	43430	1.12 ug/l		95
52) Ethylbenzene	18.09	106	61920	1.51 ug/l	#	87
53) m,p-Xylenes	18.36	106	180083	3.96 ug/l		96
54) o-Xylene	18.95	91	202758	1.78 ug/l		96
55) Bromoform	18.55	173	27998	0.97 ug/l		90
56) 2-Heptanone	18.46	43	61650	0.77 ug/l		96
57) Styrene	18.85	104	119777	1.56 ug/l		89
58) Isopropylbenzene	19.48	105	204236	1.51 ug/l		95
59) Bromobenzene	19.85	156	60246	1.63 ug/l		84
61) n-Propylbenzene	20.11	91	270721	1.61 ug/l		97
62) 2-Chlorotoluene	20.26	91	177262	1.75 ug/l		99
63) 1,2,3-Trichloropropane	19.15	75	56523	1.67 ug/l		96
64) 4-Chlorotoluene	20.37	91	173407	1.64 ug/l		95
65) 1,1,2,2-Tetrachloroethane	18.94	83	62783	1.58 ug/l		98
66) 1,2,4-Trimethylbenzene	21.12	105	219499	0.98 ug/l		97
67) tert-Butylbenzene	20.95	119	151992	1.49 ug/l		93
68) 1,3,5-Trimethylbenzene	20.53	105	177284	1.45 ug/l		100
69) sec-Butylbenzene	21.27	105	224565	1.31 ug/l		96
70) 1,3-Dichlorobenzene	21.41	146	106417	1.59 ug/l		92
71) p-Isopropyltoluene	21.53	119	187946	1.48 ug/l		96
72) 1,4-Dichlorobenzene	21.51	146	117582	1.71 ug/l		96
73) 1,2-Dichlorobenzene	22.07	146	97786	1.59 ug/l		94
74) n-Butylbenzene	22.15	91	165930	1.38 ug/l		95
75) 1,2-Dibromo-3-chloropropan	22.80	75	5261	0.72 ug/l	#	67
76) 1,2,4-Trichlorobenzene	25.24	180	58759	1.24 ug/l		93
77) Hexachlorobutadiene	25.84	225	35374	1.23 ug/l		100
78) Naphthalene	25.77	128	132246	1.45 ug/l		100

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

Data File : C:\HPCHEM\1\DATA\091598\0915006.D Vial: 42
Acq On : 15 Sep 98 9:40 pm Operator:
Sample : 2 ppb std p11 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:18 19102 Quant Results File: QUANT.RES

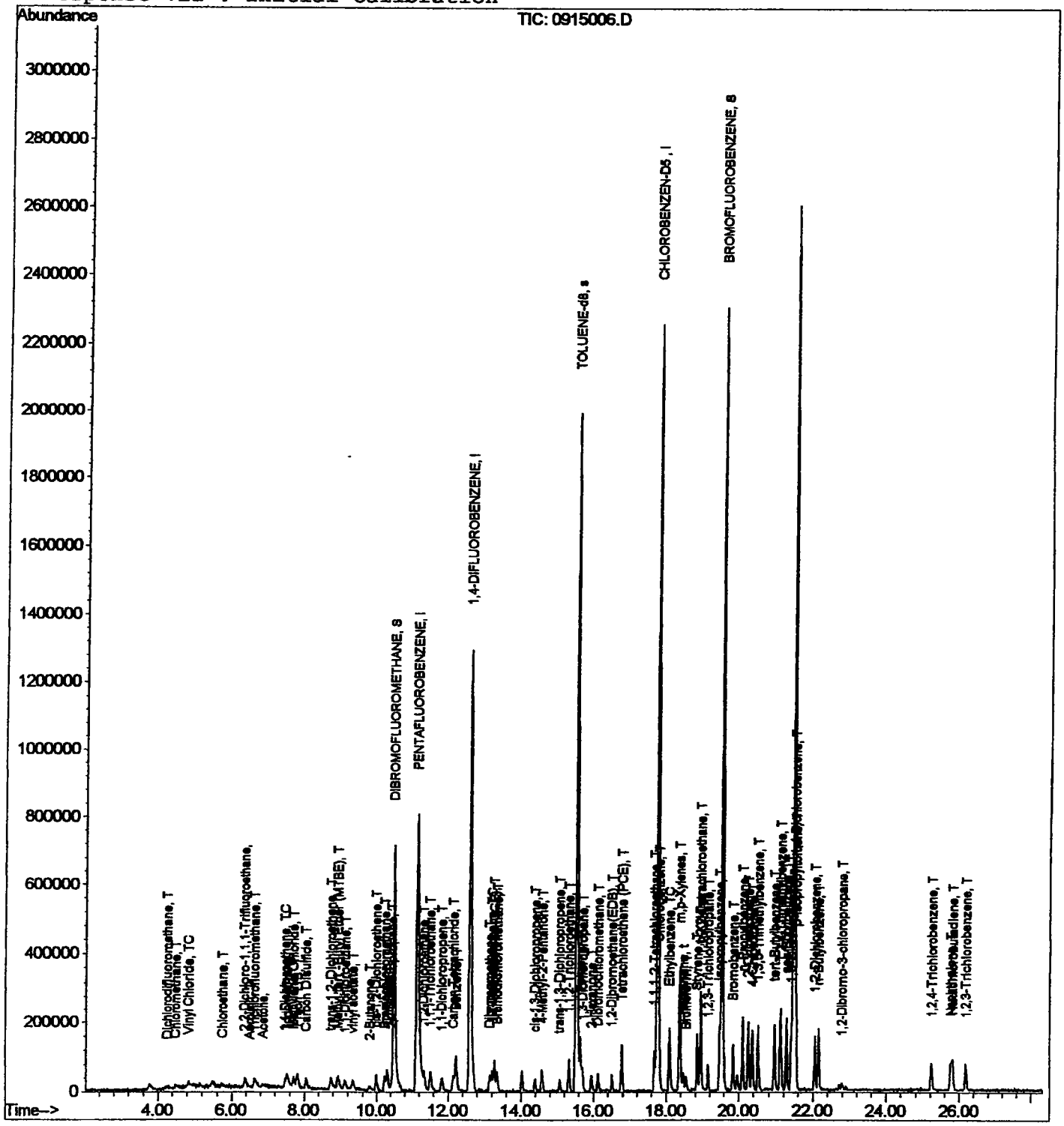
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) 1,2,3-Trichlorobenzene	26.19	180	57402	1.30 ug/l	91

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

Data File : C:\HPCHEM\1\DATA\091598\0915006.D Vial: 42
Acq On : 15 Sep 98 9:40 pm Operator:
Sample : 2 ppb std p11 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:18 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915008.D Vial: 8
Acq On : 15 Sep 98 10:53 pm Operator:
Sample : 10 ppb std p13 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.14	99	1008564	25.00	ug/l		0.01
30) 1,4-DIFLUOROBENZENE	12.60	114	2607734	25.00	ug/l		0.00
44) CHLOROBENZEN-D5	17.75	82	1726261	25.00	ug/l		0.00
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.49	113	1116842	28.08	ug/l		0.00
Spiked Amount 25.000			Recovery = 112.32%				
39) TOLUENE-d8	15.52	98	3146191	24.92	ug/l		0.00
Spiked Amount 25.000			Recovery = 99.68%				
60) BROMOFLUOROBENZENE	19.53	95	1770724	26.39	ug/l		0.00
Spiked Amount 25.000			Recovery = 105.56%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.20	85	217370	11.97	ug/l		98
3) Chloromethane	4.52	50	251676	11.20	ug/l		79
4) Vinyl Chloride	4.84	62	171157	11.73	ug/l		89
5) Bromomethane	5.47	94	193688	10.03	ug/l		81
6) Chloroethane	5.75	64	121968	11.98	ug/l		100
7) 2,2-Dichloro-1,1,1-Trifluo	6.37	83	341040	11.63	ug/l		89
8) Trichlorofluoromethane	6.64	101	580907	12.00	ug/l		95
9) Acetone	6.92	43	209172	20.06	ug/l		96
10) 1,1-Dichloroethene	7.49	96	206705	11.76	ug/l	#	78
11) Iodomethane	7.54	142	711999	29.38	ug/l		98
12) Carbon Disulfide	8.05	76	1144688	25.08	ug/l		98
13) Freon 113	7.82	101	314316	12.17	ug/l		100
16) Methylene Chloride	7.72	84	246271	11.35	ug/l	#	83
17) vinyl acetate	9.33	43	975944	22.30	ug/l		98
18) trans-1,2-Dichloroethene	8.75	96	229171	10.67	ug/l		89
19) Methyl tert -Butyl Ether (	8.92	73	762657	10.07	ug/l		88
20) 1,1-Dichloroethane	9.12	63	447157	10.48	ug/l		96
21) cis-1,2-Dichloroethene	9.98	96	334738	11.56	ug/l	#	85
22) 2,2-Dichloropropane	10.42	77	374249	10.40	ug/l		98
23) Bromochloromethane	10.23	128	185240	11.39	ug/l	#	65
24) Chloroform	10.30	83	703646	11.32	ug/l		95
25) 1,1,1-Trichloroethane	11.51	97	613263	11.18	ug/l		89
26) Carbon Tetrachloride	12.14	119	536852	11.63	ug/l		98
27) 1,2-Dichloroethane	11.34	62	656855	11.30	ug/l		96
28) 1,1-Dichloropropene	11.83	75	475844	11.22	ug/l		97
31) 2-Butanone	9.80	43	407889	21.91	ug/l		97
32) Benzene	12.21	78	1203166	10.18	ug/l		97
33) Trichloroethene (TCE)	13.27	132	368220	10.36	ug/l	#	63

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

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915008.D Vial: 8
Acq On : 15 Sep 98 10:53 pm Operator:
Sample : 10 ppb std p13 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	1,2-Dichloropropane	13.20	63	344722	10.80	ug/l		100
35)	Dibromomethane	13.14	93	274749	10.45	ug/l	#	64
36)	Bromodichloromethane	13.35	83	546104	9.52	ug/l		96
37)	2-Chloroethyl vinyl ether	14.02	43	415949	20.54	ug/l		97
38)	cis-1,3-Dichloropropene	14.38	75	472312	9.65	ug/l		99
40)	4-Methyl-2-Pentanone	14.57	43	1022455	19.96	ug/l		94
41)	trans-1,3-Dichloropropene	15.08	75	444838	9.37	ug/l		95
42)	Toluene	15.64	92	773547	9.85	ug/l		99
43)	1,1,2-Trichloroethane	15.32	97	339852	10.04	ug/l		87
45)	Tetrachloroethene (PCE)	16.78	164	339422	9.68	ug/l		92
46)	1,3-Dichloropropane	15.70	76	641711	10.32	ug/l		99
47)	Dibromochloromethane	16.13	129	450306	9.24	ug/l		99
48)	2-Hexanone	15.94	43	819392	19.72	ug/l		96
49)	1,2-Dibromoethane(EDB)	16.52	107	401810	10.54	ug/L		94
50)	Chlorobenzene	17.80	112	977283	9.97	ug/l		96
51)	1,1,1,2-Tetrachloroethane	17.68	131	414333	9.55	ug/l		94
52)	Ethylbenzene	18.09	106	505533	10.57	ug/l		94
53)	m,p-Xylenes	18.37	106	1363187	21.46	ug/l		97
54)	o-Xylene	18.96	91	1735003	11.13	ug/l		96
55)	Bromoform	18.55	173	315622	8.79	ug/l		93
56)	2-Heptanone	18.46	43	669060	12.87	ug/l		96
57)	Styrene	18.85	104	1144258	11.26	ug/l		92
58)	Isopropylbenzene	19.47	105	1950948	11.24	ug/l		97
59)	Bromobenzene	19.85	156	513100	10.46	ug/l		91
61)	n-Propylbenzene	20.11	91	2508504	11.27	ug/l		97
62)	2-Chlorotoluene	20.26	91	1467620	10.65	ug/l		97
63)	1,2,3-Trichloropropane	19.15	75	483135	10.31	ug/l		93
64)	4-Chlorotoluene	20.37	91	1566416	10.83	ug/l		99
65)	1,1,2,2-Tetrachloroethane	18.94	83	544176	10.51	ug/l		92
66)	1,2,4-Trimethylbenzene	21.28	105	3819275	23.93	ug/l	#	36
67)	tert-Butylbenzene	20.95	119	1663204	12.02	ug/l		87
68)	1,3,5-Trimethylbenzene	20.52	105	1781350	11.37	ug/l		98
69)	sec-Butylbenzene	21.28	105	2248986	11.58	ug/l		99
70)	1,3-Dichlorobenzene	21.41	146	961668	10.48	ug/l		91
71)	p-Isopropyltoluene	21.53	119	1805897	11.16	ug/l		96
72)	1,4-Dichlorobenzene	21.51	146	997054	10.60	ug/l		99
73)	1,2-Dichlorobenzene	22.06	146	933085	10.73	ug/l		97
74)	n-Butylbenzene	22.16	91	1711912	11.23	ug/l		95
75)	1,2-Dibromo-3-chloropropan	22.80	75	107484	8.89	ug/l		94
76)	1,2,4-Trichlorobenzene	25.23	180	581301	8.86	ug/l		92
77)	Hexachlorobutadiene	25.82	225	396297	10.80	ug/l		100

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

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915008.D Vial: 8
Acq On : 15 Sep 98 10:53 pm Operator:
Sample : 10 ppb std p13 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

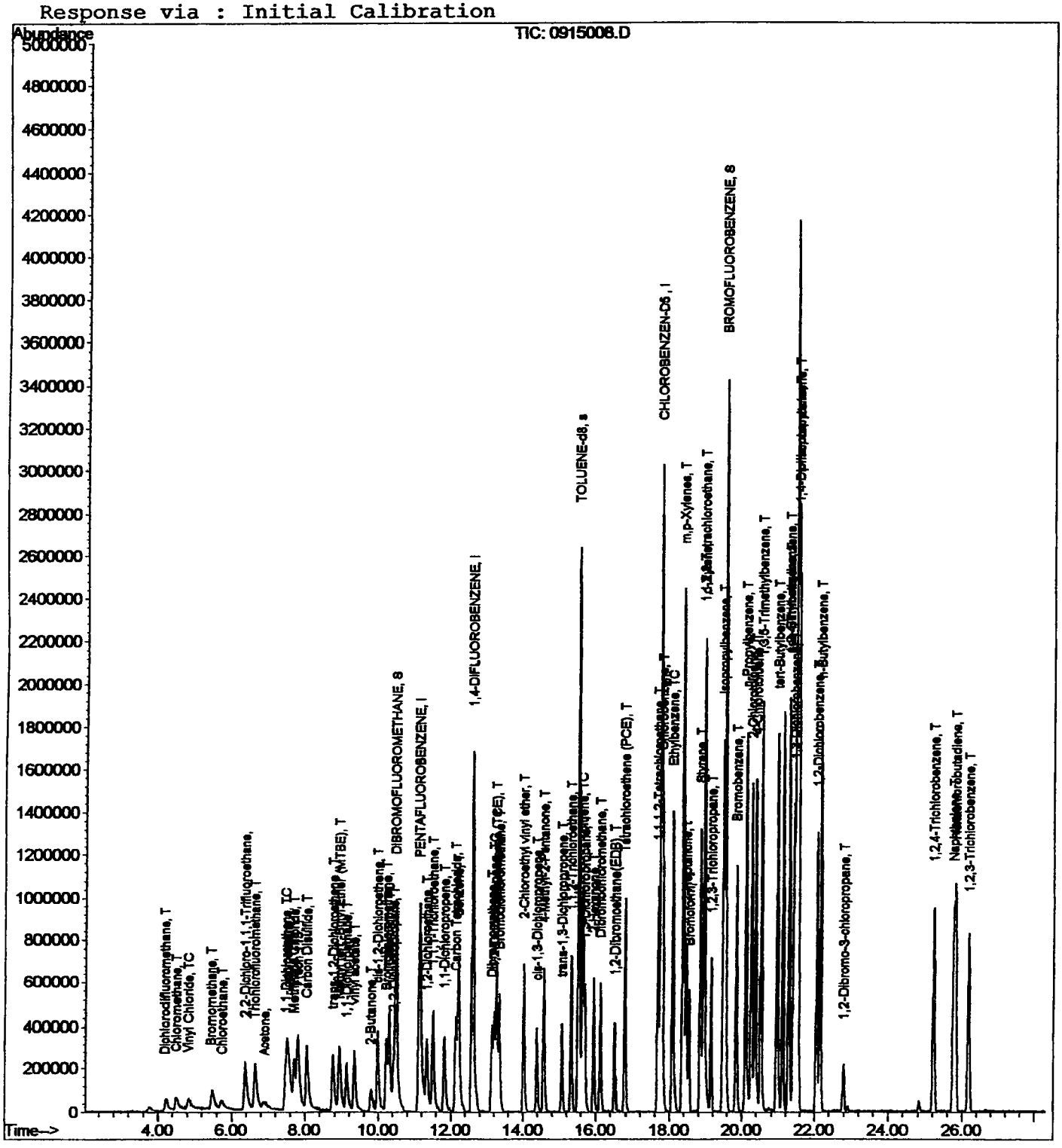
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) Naphthalene	25.77	128	1453883	9.60 ug/l	100
79) 1,2,3-Trichlorobenzene	26.20	180	566011	9.37 ug/l	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091598\0915008.D Vial: 8
Acq On : 15 Sep 98 10:53 pm Operator:
Sample : 10 ppb std p13 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.15	99	1107770	25.00	ug/l		0.01
30) 1,4-DIFLUOROBENZENE	12.60	114	2699288	25.00	ug/l		0.01
44) CHLOROBENZEN-D5	17.75	82	1802529	25.00	ug/l		0.00
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.49	113	1161985	24.80	ug/l		0.00
Spiked Amount 25.000			Recovery = 99.20%				
39) TOLUENE-d8	15.52	98	3324905	27.53	ug/l		0.00
Spiked Amount 25.000			Recovery = 110.12%				
60) BROMOFLUOROBENZENE	19.53	95	1765498	25.96	ug/l		0.00
Spiked Amount 25.000			Recovery = 103.84%				
Target Compounds			JF 9/16/98				Qvalue
2) Dichlorodifluoromethane	4.22	85	414970	22.33	ug/l	#	1
3) Chloromethane	4.50	50	511879m	21.86	ug/l		86
4) Vinyl Chloride	4.84	62	330679	20.28	ug/l		94
5) Bromomethane	5.48	94	414524	23.59	ug/l		81
6) Chloroethane	5.74	64	242501	23.93	ug/l		99
7) 2,2-Dichloro-1,1,1-Trifluo	6.36	83	696373	21.26	ug/l		95
8) Trichlorofluoromethane	6.65	101	1149356	20.67	ug/l		94
9) Acetone	6.91	43	446628	56.02	ug/l	#	79
10) 1,1-Dichloroethene	7.48	96	430802	23.16	ug/l	#	81
11) Iodomethane	7.54	142	1478456	37.13	ug/l		98
12) Carbon Disulfide	8.05	76	2413294	43.87	ug/l		97
13) Freon 113	7.82	101	640318	21.11	ug/l		100
14) Acrolein	6.64	55	1882	1.20	ug/l	#	29
15) Acrylonitrile	7.61	53	386732	72.17	ug/l	#	39
16) Methylene Chloride	7.72	84	515054	21.18	ug/l	#	86
17) vinyl acetate	9.34	43	2364229	50.80	ug/l		98
18) trans-1,2-Dichloroethene	8.75	96	482693	18.20	ug/l		93
19) Methyl tert -Butyl Ether (	8.93	73	1704426m	23.77	ug/l		89
20) 1,1-Dichloroethane	9.13	63	993221	19.06	ug/l		91
21) cis-1,2-Dichloroethene	9.99	96	718772	21.75	ug/l	#	87
22) 2,2-Dichloropropane	10.43	77	909017	23.90	ug/l		98
23) Bromochloromethane	10.22	128	404816	21.45	ug/l	#	66
24) Chloroform	10.30	83	1496114	20.64	ug/l		95
25) 1,1,1-Trichloroethane	11.51	97	1317940	19.52	ug/l		93
26) Carbon Tetrachloride	12.14	119	1102940	17.58	ug/l		96
27) 1,2-Dichloroethane	11.34	62	1407132	20.98	ug/l		93
28) 1,1-Dichloropropene	11.83	75	1004276	19.72	ug/l		95
31) 2-Butanone	9.80	43	1011370	80.97	ug/l		100

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

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32) Benzene	12.21	78	2542010	18.23 ug/l		99
33) Trichloroethene (TCE)	13.27	132	757708	17.97 ug/l	#	63
34) 1,2-Dichloropropane	13.20	63	729052	19.67 ug/l		98
35) Dibromomethane	13.14	93	611922	22.40 ug/l	#	30
36) Bromodichloromethane	13.35	83	1195903	20.36 ug/l		95
38) cis-1,3-Dichloropropene	14.38	75	1109940	20.30 ug/l		100
40) 4-Methyl-2-Pentanone	14.57	43	2468998	82.25 ug/l		94
41) trans-1,3-Dichloropropene	15.07	75	1111195	20.97 ug/l		94
42) Toluene	15.64	92	1683964	19.52 ug/l		98
43) 1,1,2-Trichloroethane	15.33	97	767100	20.99 ug/l		88
45) Tetrachloroethene (PCE)	16.78	164	717453	16.90 ug/l		90
46) 1,3-Dichloropropane	15.70	76	1415829	18.21 ug/l		100
47) Dibromochloromethane	16.13	129	1047498	16.13 ug/l		98
48) 2-Hexanone	15.94	43	1982783	37.97 ug/l		97
49) 1,2-Dibromoethane(EDB)	16.52	107	905297	18.11 ug/L		92
50) Chlorobenzene	17.80	112	2089566	17.42 ug/l		96
51) 1,1,1,2-Tetrachloroethane	17.67	131	936046	16.61 ug/l		95
52) Ethylbenzene	18.09	106	1067246	17.89 ug/l		94
53) m,p-Xylenes	18.37	106	2706358	40.84 ug/l		97
54) o-Xylene	18.95	91	3450680	20.79 ug/l		95
55) Bromoform	18.55	173	797496	19.07 ug/l		93
56) 2-Heptanone	18.46	43	1638579	14.10 ug/l		95
57) Styrene	18.85	104	2385725	21.35 ug/l		93
58) Isopropylbenzene	19.48	105	3930037	19.98 ug/l		97
59) Bromobenzene	19.85	156	1081248 JF	20.10 ug/l		89
61) n-Propylbenzene	20.11	91	5005206 9/4/98	20.45 ug/l		99
62) 2-Chlorotoluene	20.26	91	3030526m	20.50 ug/l		89
63) 1,2,3-Trichloropropane	19.15	75	1073823	21.73 ug/l		93
64) 4-Chlorotoluene	20.37	91	3182389	20.65 ug/l		97
65) 1,1,2,2-Tetrachloroethane	18.94	83	1255678	21.76 ug/l		93
66) 1,2,4-Trimethylbenzene	21.11	105	3781985m	11.64 ug/l		1
67) tert-Butylbenzene	20.95	119	3320602	22.37 ug/l		88
68) 1,3,5-Trimethylbenzene	20.52	105	3713239	20.91 ug/l		97
69) sec-Butylbenzene	21.28	105	4475255	18.00 ug/l		98
70) 1,3-Dichlorobenzene	21.41	146	2028375	20.86 ug/l		94
71) p-Isopropyltoluene	21.53	119	3705277	20.07 ug/l		96
72) 1,4-Dichlorobenzene	21.51	146	2126668	21.31 ug/l		99
73) 1,2-Dichlorobenzene	22.06	146	1968065	22.05 ug/l		98
74) n-Butylbenzene	22.16	91	3581238	20.44 ug/l		95
75) 1,2-Dibromo-3-chloropropan	22.80	75	286578	26.81 ug/l		87
76) 1,2,4-Trichlorobenzene	25.23	180	1343641	19.52 ug/l		92

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

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

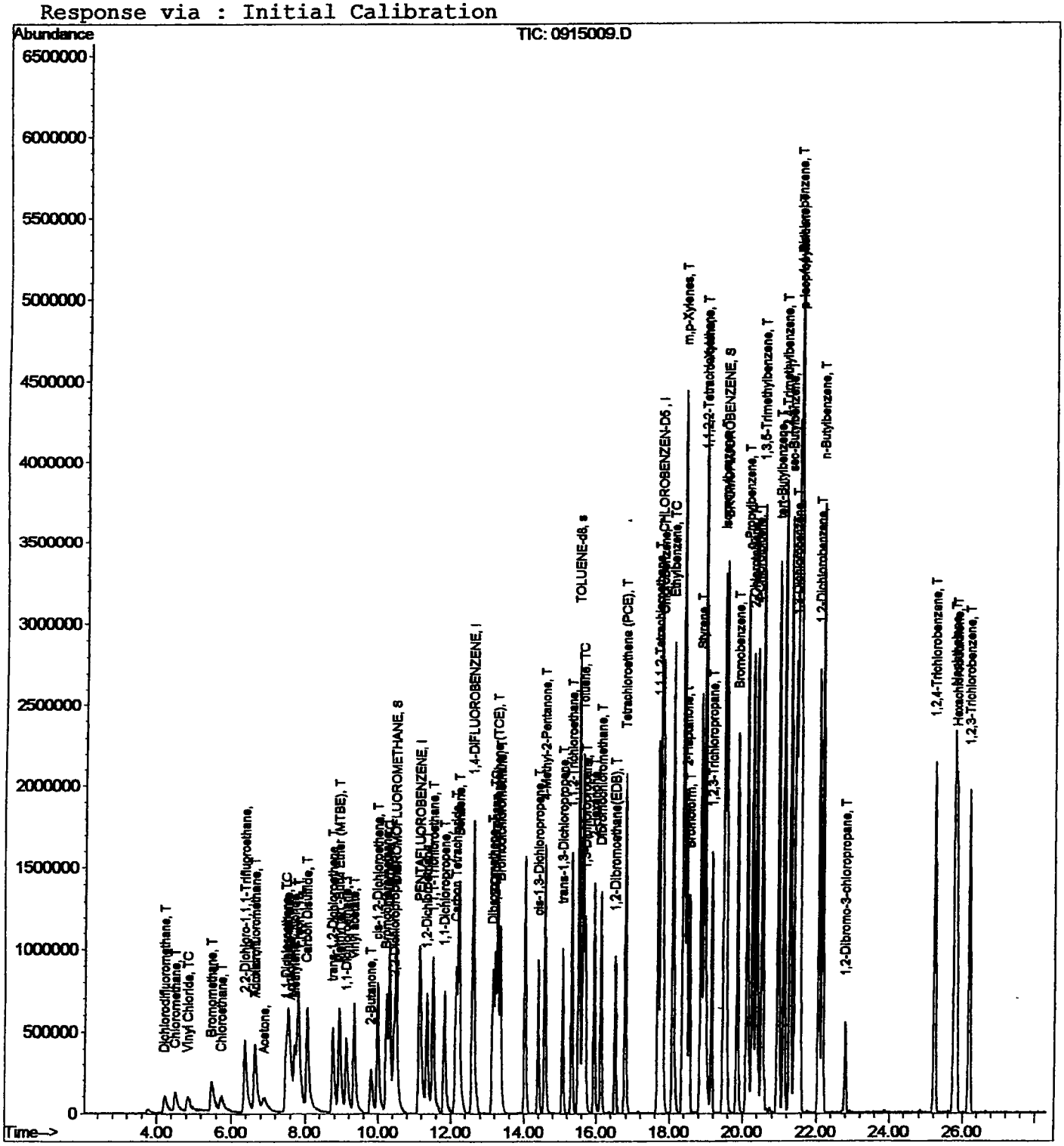
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	Hexachlorobutadiene	25.82	225	788826	18.84	ug/l	100
78)	Naphthalene	25.77	128	3584045	26.94	ug/l	100
79)	1,2,3-Trichlorobenzene	26.19	180	1299717	20.24	ug/l	98

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

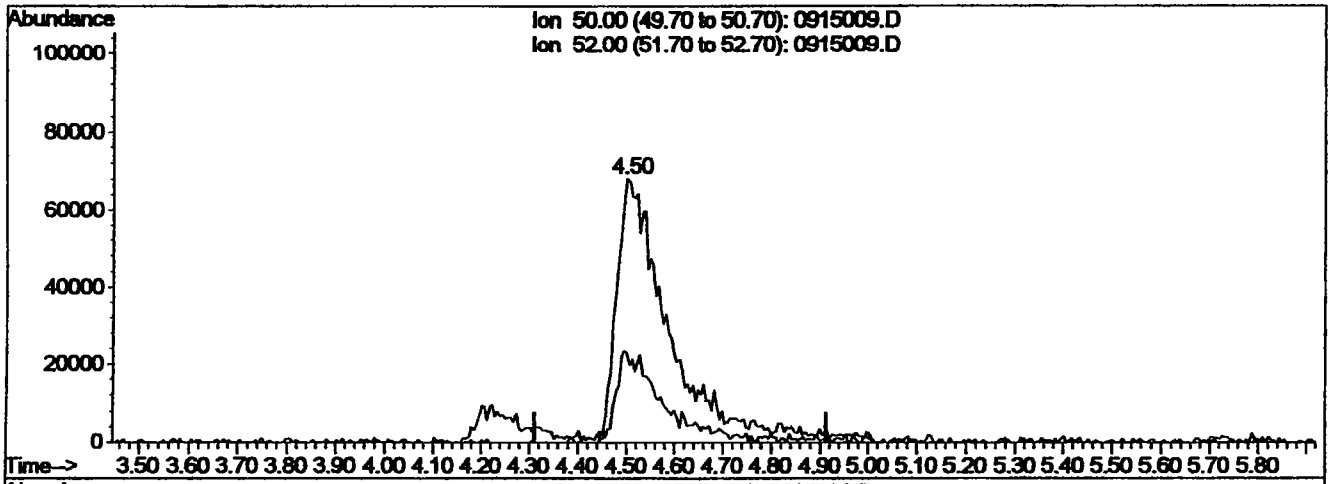
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
[illegible] Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



TIC: 0915009.D

(3) Chloromethane (T)

4.50min 21.86ug/l m

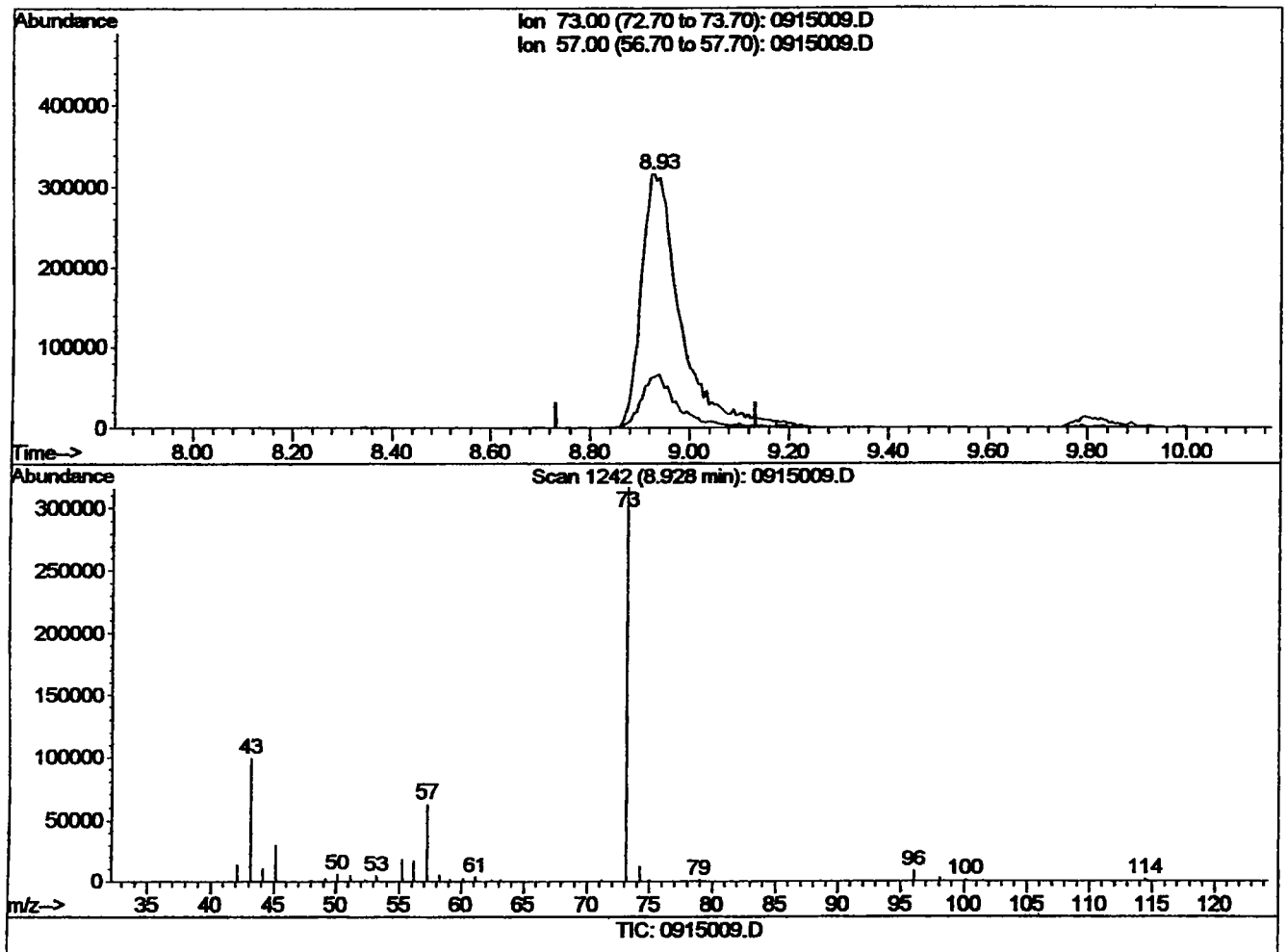
response 511879

Ion	Exp%	Act%
50.00	100	100
52.00	41.90	33.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
[illegible] Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



(19) Methyl tert -Butyl Ether (MTBE) (T)

8.93min 23.77ug/l m

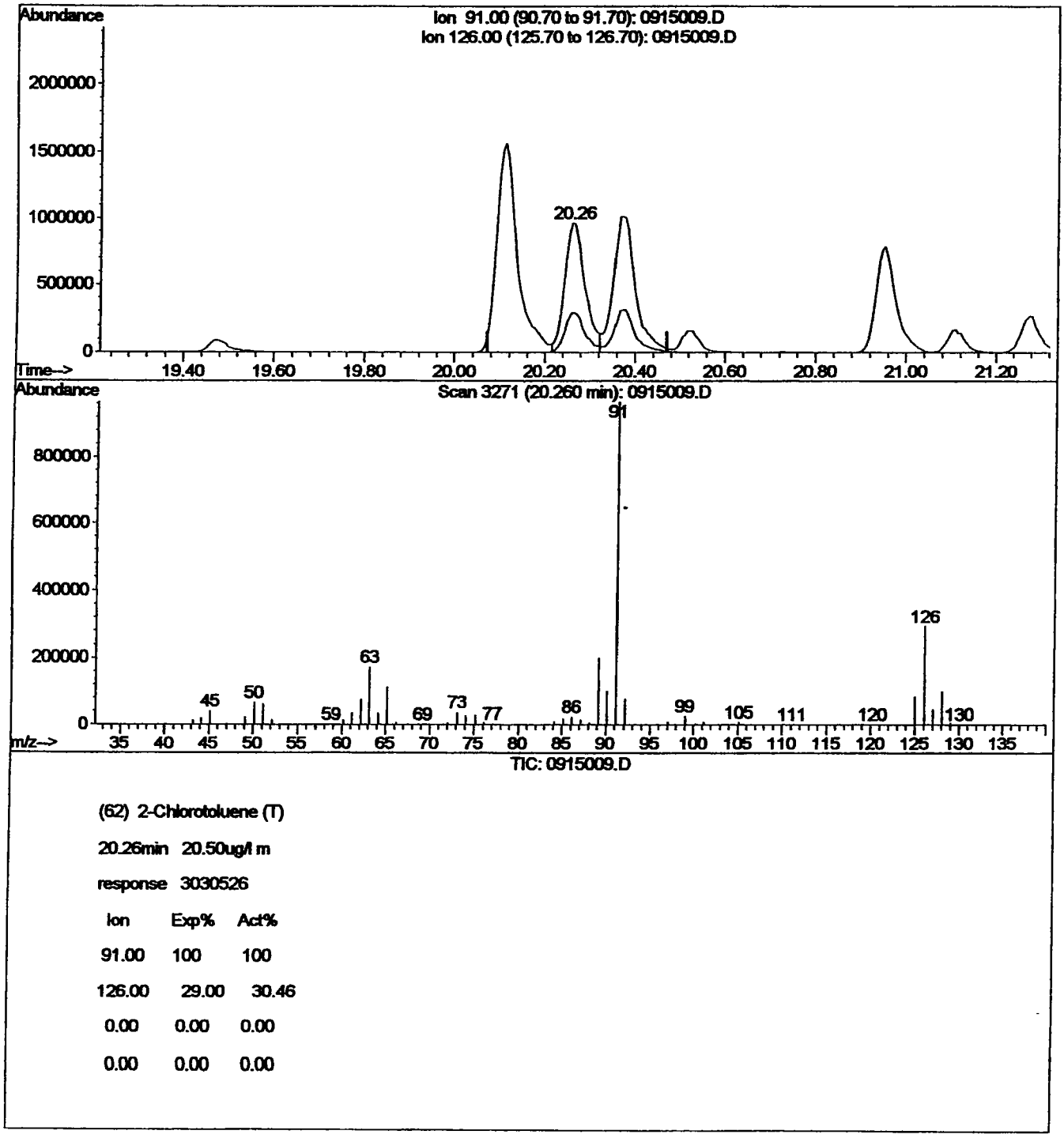
response 1704426

Ion	Exp%	Act%
73.00	100	100
57.00	14.80	19.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
[illegible] Quant Results File: temp.res

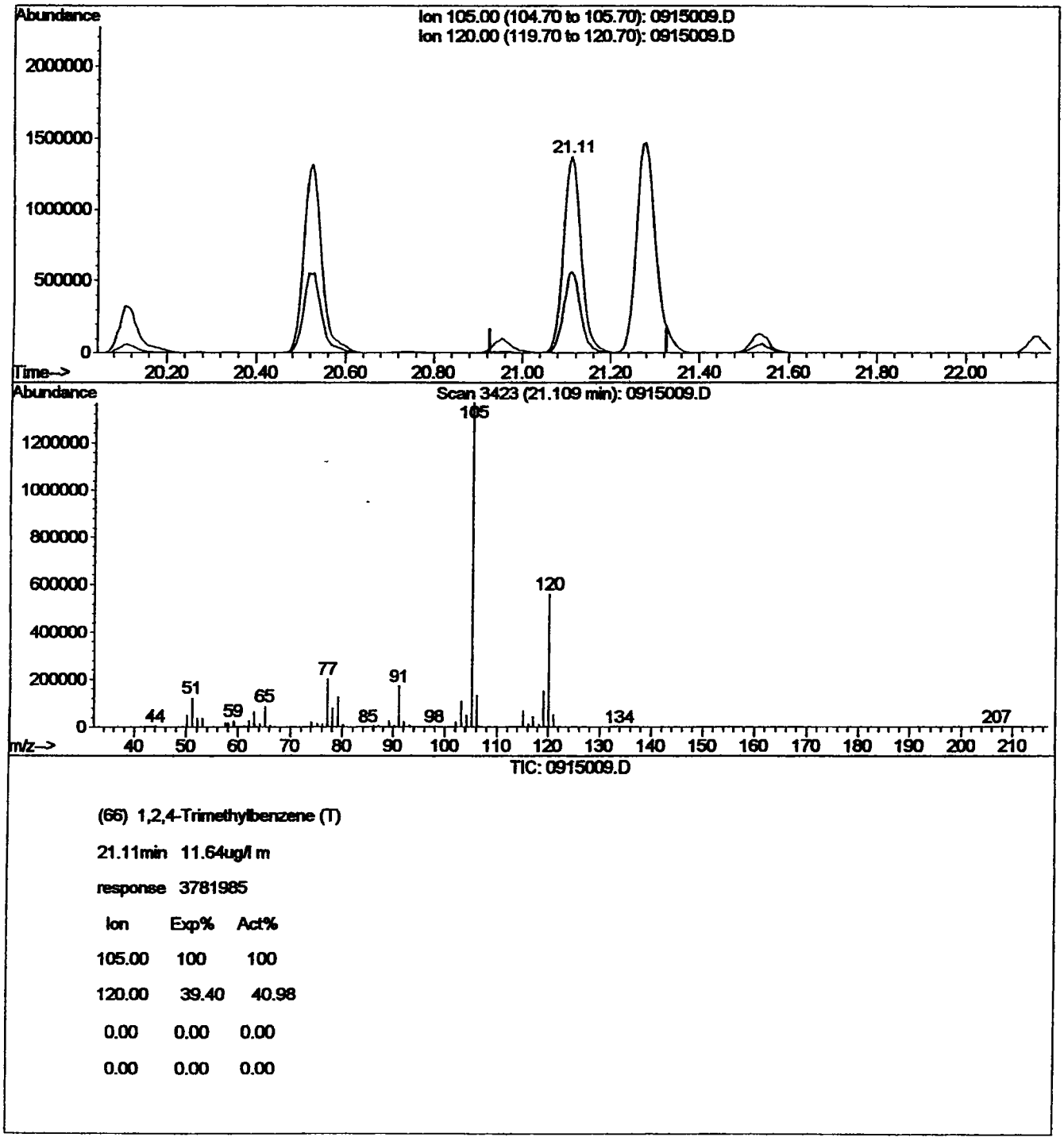
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\091598\0915009.D Vial: 9
Acq On : 15 Sep 98 11:31 pm Operator:
Sample : 20 ppb std p14 Inst : MS03
Misc : Multiplr: 1.00
[illegible] Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



(66) 1,2,4-Trimethylbenzene (T)

21.11min 11.64ug/l m

response 3781985

Ion	Exp%	Act%
105.00	100	100
120.00	39.40	40.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915010.D Vial: 10
Acq On : 16 Sep 98 12:08 am Operator:
Sample : 50 ppb std p15 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.14	99	1171317	25.00	ug/l		0.00
30) 1,4-DIFLUOROBENZENE	12.60	114	2808460	25.00	ug/l		0.00
44) CHLOROBENZEN-D5	17.75	82	1868696	25.00	ug/l		0.00
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.49	113	1119351	22.59	ug/l		0.00
Spiked Amount 25.000			Recovery = 90.36%				
39) TOLUENE-d8	15.52	98	3499950	27.85	ug/l		0.00
Spiked Amount 25.000			Recovery = 111.40%				
60) BROMOFLUOROBENZENE	19.54	95	1730459	24.54	ug/l		0.00
Spiked Amount 25.000			Recovery = 98.16%				
Target Compounds			JF 9/16/98				Qvalue
2) Dichlorodifluoromethane	4.22	85	885870	45.08	ug/l	#	1
3) Chloromethane	4.51	50	1316325m	53.15	ug/l		84
4) Vinyl Chloride	4.83	62	734346	42.60	ug/l		89
5) Bromomethane	5.49	94	999813	53.82	ug/l		81
6) Chloroethane	5.74	64	638381	59.59	ug/l		100
7) 2,2-Dichloro-1,1,1-Trifluo	6.37	83	1717967	49.60	ug/l		96
8) Trichlorofluoromethane	6.64	101	2696766	45.86	ug/l		93
9) Acetone	6.88	43	951835	112.91	ug/l	#	76
10) 1,1-Dichloroethene	7.49	96	1082290	55.02	ug/l	#	84
11) Iodomethane	7.54	142	3424527	81.33	ug/l		99
12) Carbon Disulfide	8.06	76	6053703	104.07	ug/l		96
13) Freon 113	7.81	101	1400088	43.66	ug/l		100
14) Acrolein	6.64	55	24550m	14.75	ug/l		77
15) Acrylonitrile	7.60	53	812145	143.34	ug/l	#	32
16) Methylene Chloride	7.72	84	1240505	48.25	ug/l	#	87
17) vinyl acetate	9.34	43	5394015	109.61	ug/l		99
18) trans-1,2-Dichloroethene	8.75	96	1306528m	46.60	ug/l		92
19) Methyl tert -Butyl Ether (	8.93	73	4548038	59.98	ug/l		87
20) 1,1-Dichloroethane	9.12	63	2744122	49.81	ug/l		93
21) cis-1,2-Dichloroethene	9.99	96	1765392	50.51	ug/l	#	82
22) 2,2-Dichloropropane	10.43	77	2302537	57.24	ug/l		98
23) Bromochloromethane	10.23	128	995071	49.86	ug/l	#	69
24) Chloroform	10.31	83	3776695m	49.28	ug/l		94
25) 1,1,1-Trichloroethane	11.51	97	3289624	46.07	ug/l		93
26) Carbon Tetrachloride	12.14	119	2809767	42.35	ug/l		98
27) 1,2-Dichloroethane	11.35	62	3506352m	49.45	ug/l		94
28) 1,1-Dichloropropene	11.83	75	2563670m	47.62	ug/l		97
31) 2-Butanone	9.80	43	2221475	170.94	ug/l		98

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

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915010.D Vial: 10
Acq On : 16 Sep 98 12:08 am Operator:
Sample : 50 ppb std p15 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Benzene	12.21	78	6319099	43.55	ug/l		99
33)	Trichloroethene (TCE)	13.27	132	1965826	44.81	ug/l	#	67
34)	1,2-Dichloropropane	13.20	63	1808779	46.90	ug/l		99
35)	Dibromomethane	13.14	93	1485844	52.28	ug/l	#	29
36)	Bromodichloromethane	13.35	83	3094290	50.64	ug/l		95
38)	cis-1,3-Dichloropropene	14.39	75	2864095	50.34	ug/l		99
40)	4-Methyl-2-Pentanone	14.58	43	5474778	175.30	ug/l		95
41)	trans-1,3-Dichloropropene	15.07	75	2927699	53.11	ug/l		93
42)	Toluene	15.64	92	4272942	47.61	ug/l		97
43)	1,1,2-Trichloroethane	15.33	97	1859396	48.90	ug/l		87
45)	Tetrachloroethene (PCE)	16.78	164	1861356	42.30	ug/l		93
46)	1,3-Dichloropropane	15.70	76	3338352	41.42	ug/l		99
47)	Dibromochloromethane	16.13	129	2825594	41.97	ug/l		100
48)	2-Hexanone	15.94	43	4320878	79.82	ug/l		98
49)	1,2-Dibromoethane(EDB)	16.51	107	2251187	43.43	ug/L		94
50)	Chlorobenzene	17.80	112	5321989	42.81	ug/l		97
51)	1,1,1,2-Tetrachloroethane	17.68	131	2479799	42.44	ug/l		95
52)	Ethylbenzene	18.09	106	2750180	44.48	ug/l		97
53)	m,p-Xylenes	18.37	106	6558912	95.48	ug/l		99
54)	o-Xylene	18.96	91	8371605	48.65	ug/l		97
55)	Bromoform	18.55	173	2153336	49.66	ug/l		95
56)	2-Heptanone	18.46	43	3556640	29.52	ug/l		95
57)	Styrene	18.85	104	5971297	51.54	ug/l		94
58)	Isopropylbenzene	19.47	105	9669788	47.43	ug/l		98
59)	Bromobenzene	19.85	156	2710557	48.61	ug/l		90
61)	n-Propylbenzene	20.11	91	12123110	47.78	ug/l		97
62)	2-Chlorotoluene	20.27	91	7392638m	48.24	ug/l		86
63)	1,2,3-Trichloropropane	19.15	75	2554621	49.87	ug/l		95
64)	4-Chlorotoluene	20.38	91	7774808	48.66	ug/l		97
65)	1,1,2,2-Tetrachloroethane	18.94	83	2788217	46.61	ug/l		93
66)	1,2,4-Trimethylbenzene	21.11	105	9086177m	26.98	ug/l		36
67)	tert-Butylbenzene	20.95	119	8229452	53.49	ug/l		88
68)	1,3,5-Trimethylbenzene	20.52	105	8896938	48.32	ug/l		98
69)	sec-Butylbenzene	21.28	105	10837047	42.04	ug/l		96
70)	1,3-Dichlorobenzene	21.41	146	4981074	49.41	ug/l		93
71)	p-Isopropyltoluene	21.54	119	8827473	46.13	ug/l		97
72)	1,4-Dichlorobenzene	21.51	146	5039259	48.70	ug/l		100
73)	1,2-Dichlorobenzene	22.07	146	4876549	52.70	ug/l		98
74)	n-Butylbenzene	22.16	91	8589851	47.30	ug/l		95
75)	1,2-Dibromo-3-chloropropan	22.80	75	672368	60.67	ug/l		86
76)	1,2,4-Trichlorobenzene	25.23	180	3471934	48.67	ug/l		91

JF 9/16/98

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

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915010.D Vial: 10
Acq On : 16 Sep 98 12:08 am Operator:
Sample : 50 ppb std p15 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

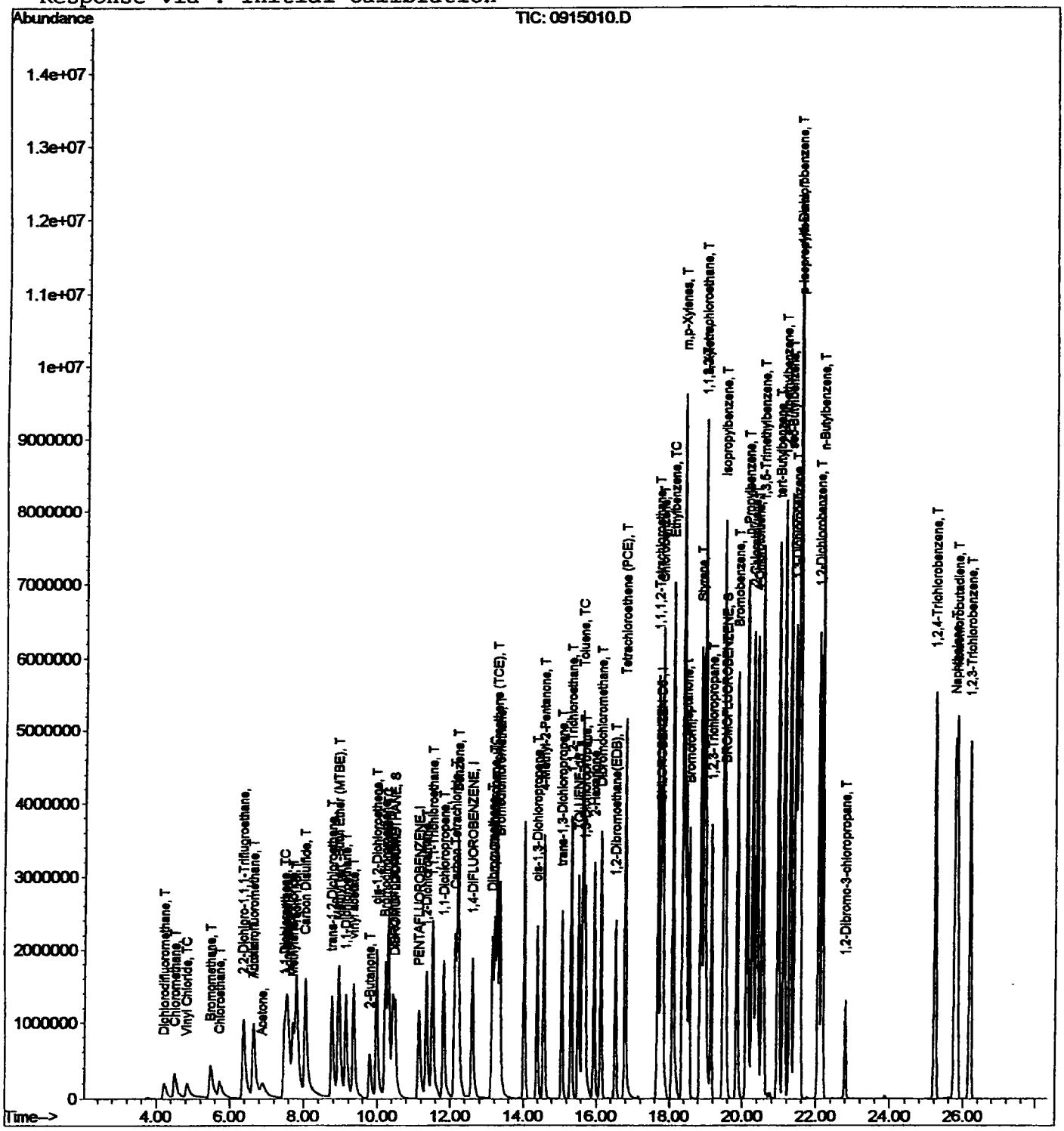
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	Hexachlorobutadiene	25.82	225	2107413	48.56 ug/l	100
78)	Naphthalene	25.77	128	7550700	54.75 ug/l	100
79)	1,2,3-Trichlorobenzene	26.19	180	3301411	49.58 ug/l	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091598\0915010.D Vial: 10
Acq On : 16 Sep 98 12:08 am Operator:
Sample : 50 ppb std p15 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:19 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915011.D Vial: 11
Acq On : 16 Sep 98 12:45 am Operator:
Sample : 100/200 ppb std p16 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:20 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32) Benzene	12.21	78	13196977	91.56 ug/l		98
33) Trichloroethene (TCE)	13.27	132	4116388	94.94 ug/l	#	64
34) 1,2-Dichloropropane	13.21	63	3687524	94.66 ug/l		98
35) Dibromomethane	13.15	93	3111164	96.97 ug/l	#	26
36) Bromodichloromethane	13.35	83	6599542	94.27 ug/l		94
38) cis-1,3-Dichloropropene	14.39	75	6182355	103.52 ug/l		99
40) 4-Methyl-2-Pentanone	14.57	43	71666	1.15 ug/l		87
41) trans-1,3-Dichloropropene	15.07	75	6201953	107.07 ug/l		94
42) Toluene	15.64	92	8457673	88.25 ug/l		100
43) 1,1,2-Trichloroethane	15.33	97	3847079	93.13 ug/l		88
45) Tetrachloroethene (PCE)	16.78	164	3906936	101.32 ug/l		94
46) 1,3-Dichloropropane	15.71	76	6794556	99.38 ug/l		99
47) Dibromochloromethane	16.13	129	6068869	113.19 ug/l		99
49) 1,2-Dibromoethane(EDB)	16.52	107	4774208	113.89 ug/L		93
50) Chlorobenzene	17.81	112	10278440	95.29 ug/l		96
51) 1,1,1,2-Tetrachloroethane	17.68	131	5100248	106.82 ug/l		94
52) Ethylbenzene	18.09	106	5201294	98.88 ug/l		97
53) m,p-Xylenes	18.38	106	12106829	173.30 ug/l		95
54) o-Xylene	18.97	91	15185309	88.57 ug/l		98
55) Bromoform	18.55	173	4795599	121.39 ug/l		93
57) Styrene	18.86	104	10587320	94.72 ug/l		93
58) Isopropylbenzene	19.48	105	17423383	91.26 ug/l		100
59) Bromobenzene	19.85	156	5252412	97.36 ug/l		93
61) n-Propylbenzene	20.12	91	21885444	89.37 ug/l		95
62) 2-Chlorotoluene	20.27	91	13073902	86.25 ug/l		91
63) 1,2,3-Trichloropropane	19.16	75	5101532	98.96 ug/l		94
64) 4-Chlorotoluene	20.38	91	14587615	91.72 ug/l		97
65) 1,1,2,2-Tetrachloroethane	18.94	83	5522987	96.96 ug/l		92
66) 1,2,4-Trimethylbenzene	21.28	105	32299625	183.98 ug/l	#	36
67) tert-Butylbenzene	20.96	119	15082400	99.09 ug/l		88
68) 1,3,5-Trimethylbenzene	20.53	105	16827333	97.62 ug/l		98
69) sec-Butylbenzene	21.28	105	19341626	90.55 ug/l		95
70) 1,3-Dichlorobenzene	21.42	146	9488958	94.02 ug/l		92
71) p-Isopropyltoluene	21.54	119	15768878	88.61 ug/l		96
72) 1,4-Dichlorobenzene	21.51	146	9153669	88.44 ug/l		99
73) 1,2-Dichlorobenzene	22.06	146	9291535	97.15 ug/l		98
74) n-Butylbenzene	22.17	91	15368457	91.67 ug/l		95
75) 1,2-Dibromo-3-chloropropan	22.80	75	1340381	100.75 ug/l		85
76) 1,2,4-Trichlorobenzene	25.23	180	6650239	92.16 ug/l		91
77) Hexachlorobutadiene	25.83	225	3546630	87.86 ug/l		100
78) Naphthalene	25.77	128	12497486	75.04 ug/l		100

(#) = qualifier out of range (m) = manual integration
0915011.D 091598.M Sat Mar 23 10:20:18 2002

Quantitation Report (No Status)

Data File : C:\HPCHEM\1\DATA\091598\0915011.D Vial: 11
Acq On : 16 Sep 98 12:45 am Operator:
Sample : 100/200 ppb std p16 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:20 19102 Quant Results File: QUANT.RES

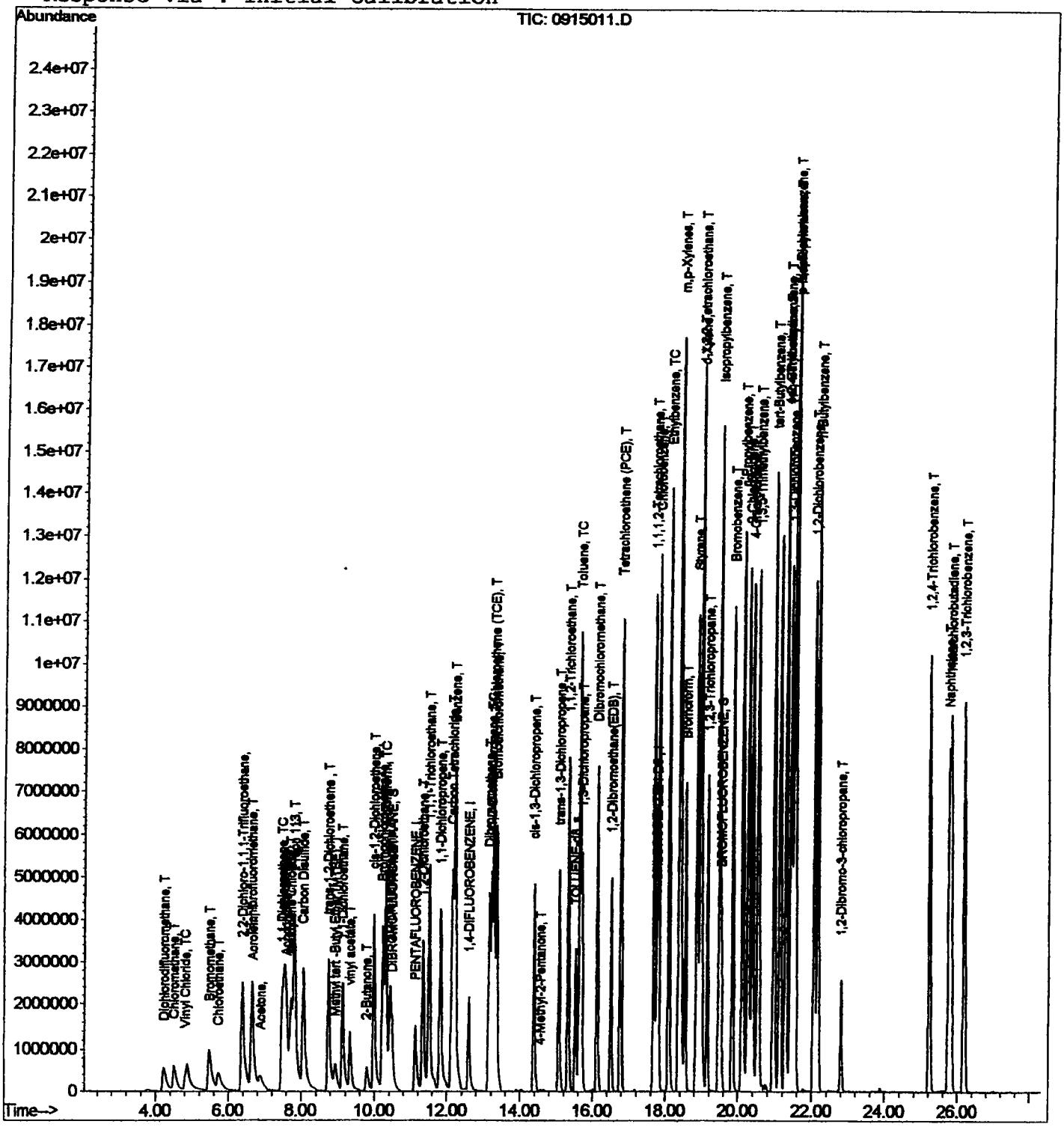
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 090998

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) 1,2,3-Trichlorobenzene	26.19	180	6323977	95.19 ug/l	98

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

Data File : C:\HPCHEM\1\DATA\091598\0915011.D Vial: 11
Acq On : 16 Sep 98 12:45 am Operator:
Sample : 100/200 ppb std p16 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:20 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Acq On : 11 Oct 98 7:01 pm
Sample : 10 ppb ccv p5
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 23 10:33 19102

Operator:
Inst : MS03
Multiplr: 1.00

Quant Results File: 091598.RES

Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:23:49 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.16	99	1133107	25.00	ug/l		-0.02
30) 1,4-DIFLUOROBENZENE	12.64	114	2871104	25.00	ug/l		0.00
44) CHLOROBENZEN-D5	17.78	82	2196843	25.00	ug/l		0.00
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.51	113	1263406	24.74	ug/l		0.03
Spiked Amount 25.000			Recovery = 98.96%				
39) TOLUENE-d8	15.55	98	3336543	24.28	ug/l		0.03
Spiked Amount 25.000			Recovery = 97.12%				
60) BROMOFLUOROBENZENE	19.56	95	2317037	26.83	ug/l		0.02
Spiked Amount 25.000			Recovery = 107.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.24	85	266517	11.17	ug/l		99
3) Chloromethane	4.53	50	265324	10.13	ug/l		86
4) Vinyl Chloride	4.88	62	222362	11.47	ug/l		88
5) Bromomethane	5.50	94	219246	10.05	ug/l		78
6) Chloroethane	5.75	64	134565	10.22	ug/l		96
7) 2,2-Dichloro-1,1,1-Trifluo	6.40	83	423669	11.99	ug/l		95
8) Trichlorofluoromethane	6.67	101	778527	12.16	ug/l		97
9) Acetone	6.89	43	205363	18.34	ug/l	#	87
10) 1,1-Dichloroethene	7.51	96	245770	10.84	ug/l		89
11) Iodomethane	7.56	142	1139038	26.60	ug/l		93
12) Carbon Disulfide	8.08	76	1750496	28.87	ug/l		97
13) Freon 113	7.85	101	456320	14.10	ug/l		100
15) Acrylonitrile	7.62	53	136824	17.71	ug/l	#	50
16) Methylene Chloride	7.73	84	311937	12.11	ug/l		91
17) vinyl acetate	9.37	43	1444622	29.00	ug/l		99
18) trans-1,2-Dichloroethene	8.77	96	268452	10.62	ug/l		98
19) Methyl tert -Butyl Ether (	8.97	73	820921	9.60	ug/l		90
20) 1,1-Dichloroethane	9.15	63	465864	9.43	ug/l		93
21) cis-1,2-Dichloroethene	10.01	96	362354	10.72	ug/l		94
22) 2,2-Dichloropropane	10.46	77	500166	10.66	ug/l		97
23) Bromochloromethane	10.25	128	219834	11.40	ug/l	#	75
24) Chloroform	10.33	83	839133	11.40	ug/l		93
25) 1,1,1-Trichloroethane	11.54	97	727150	11.31	ug/l		93
26) Carbon Tetrachloride	12.18	119	722949	12.27	ug/l		96
27) 1,2-Dichloroethane	11.37	62	692713	10.31	ug/l		95
28) 1,1-Dichloropropene	11.87	75	548398	10.54	ug/l		99
31) 2-Butanone	9.83	43	381409	19.02	ug/l		97
32) Benzene	12.25	78	1370918	10.47	ug/l		98

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

Acq On : 11 Oct 98 7:01 pm
Sample : 10 ppb ccv p5
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 23 10:33 19102

Operator:
Inst : MS03
Multiplr: 1.00
Quant Results File: 091598.RES

Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:23:49 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33) Trichloroethene (TCE)	13.31	132	464315	10.49 ug/l	98
34) 1,2-Dichloropropane	13.24	63	376556m	11.96 ug/l	100
35) Dibromomethane	13.18	93	341361	11.32 ug/l	88
36) Bromodichloromethane	13.38	83	684220	10.83 ug/l	94
37) 2-Chloroethyl vinyl ether	14.05	43	445467	20.61 ug/l	97
38) cis-1,3-Dichloropropene	14.42	75	585618	10.41 ug/l	98
40) 4-Methyl-2-Pentanone	14.60	43	1071102	19.85 ug/l	96
41) trans-1,3-Dichloropropene	15.10	75	574913	10.43 ug/l	93
42) Toluene	15.66	92	1055714	11.86 ug/l	97
43) 1,1,2-Trichloroethane	15.36	97	443085	11.24 ug/l	89
45) Tetrachloroethene (PCE)	16.81	164	491008	10.24 ug/l	96
46) 1,3-Dichloropropane	15.74	76	804538	9.99 ug/l	100
47) Dibromochloromethane	16.16	129	652553	10.07 ug/l	97
48) 2-Hexanone	15.97	43	909448	17.93 ug/l	97
49) 1,2-Dibromoethane(EDB)	16.55	107	513398	9.81 ug/L	96
50) Chlorobenzene	17.83	112	1247798	9.79 ug/l	98
51) 1,1,1,2-Tetrachloroethane	17.71	131	588921	10.33 ug/l	93
52) Ethylbenzene	18.12	106	600161	9.07 ug/l	99
53) m,p-Xylenes	18.39	106	2030043	22.15 ug/l	96
54) o-Xylene	18.99	91	2497627	11.74 ug/l	98
55) Bromoform	18.57	173	490645	10.06 ug/l	95
56) 2-Heptanone	18.50	43	731634	8.51 ug/l	95
57) Styrene	18.88	104	1700072	11.53 ug/l	83
58) Isopropylbenzene	19.50	105	2912951	12.39 ug/l	98
59) Bromobenzene	19.88	156	824059	12.41 ug/l	98
61) n-Propylbenzene	20.14	91	3496982	11.83 ug/l	96
62) 2-Chlorotoluene	20.29	91	1975456	11.01 ug/l	91
63) 1,2,3-Trichloropropane	19.18	75	575013	9.78 ug/l	94
64) 4-Chlorotoluene	20.41	91	2184483	11.40 ug/l	96
65) 1,1,2,2-Tetrachloroethane	18.97	83	704187	10.92 ug/l	91
66) 1,2,4-Trimethylbenzene	21.14	105	2274649	10.74 ug/l	96
67) tert-Butylbenzene	20.99	119	2117619	10.93 ug/l	96
68) 1,3,5-Trimethylbenzene	20.56	105	2319528	10.87 ug/l	99
69) sec-Butylbenzene	21.31	105	3089349	11.60 ug/l	95
70) 1,3-Dichlorobenzene	21.44	146	1411536	10.95 ug/l	93
71) p-Isopropyltoluene	21.57	119	2477256	10.97 ug/l	98
72) 1,4-Dichlorobenzene	21.54	146	1464708	11.29 ug/l	98
73) 1,2-Dichlorobenzene	22.10	146	1321811	10.86 ug/l	100
74) n-Butylbenzene	22.19	91	2211601	10.58 ug/l	96
75) 1,2-Dibromo-3-chloropropan	22.84	75	135091	8.46 ug/l	77
76) 1,2,4-Trichlorobenzene	25.26	180	915784	10.37 ug/l	93

JF 10/12/98

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

Acq On : 11 Oct 98 7:01 pm
Sample : 10 ppb ccv p5
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 23 10:33 19102

Operator:
Inst : MS03
Multiplr: 1.00

Quant Results File: 091598.RES

Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:23:49 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Hexachlorobutadiene	25.87	225	530729	10.20	ug/l	100
78) Naphthalene	25.81	128	2060488	10.63	ug/l	100
79) 1,2,3-Trichlorobenzene	26.24	180	890567	10.60	ug/l	98

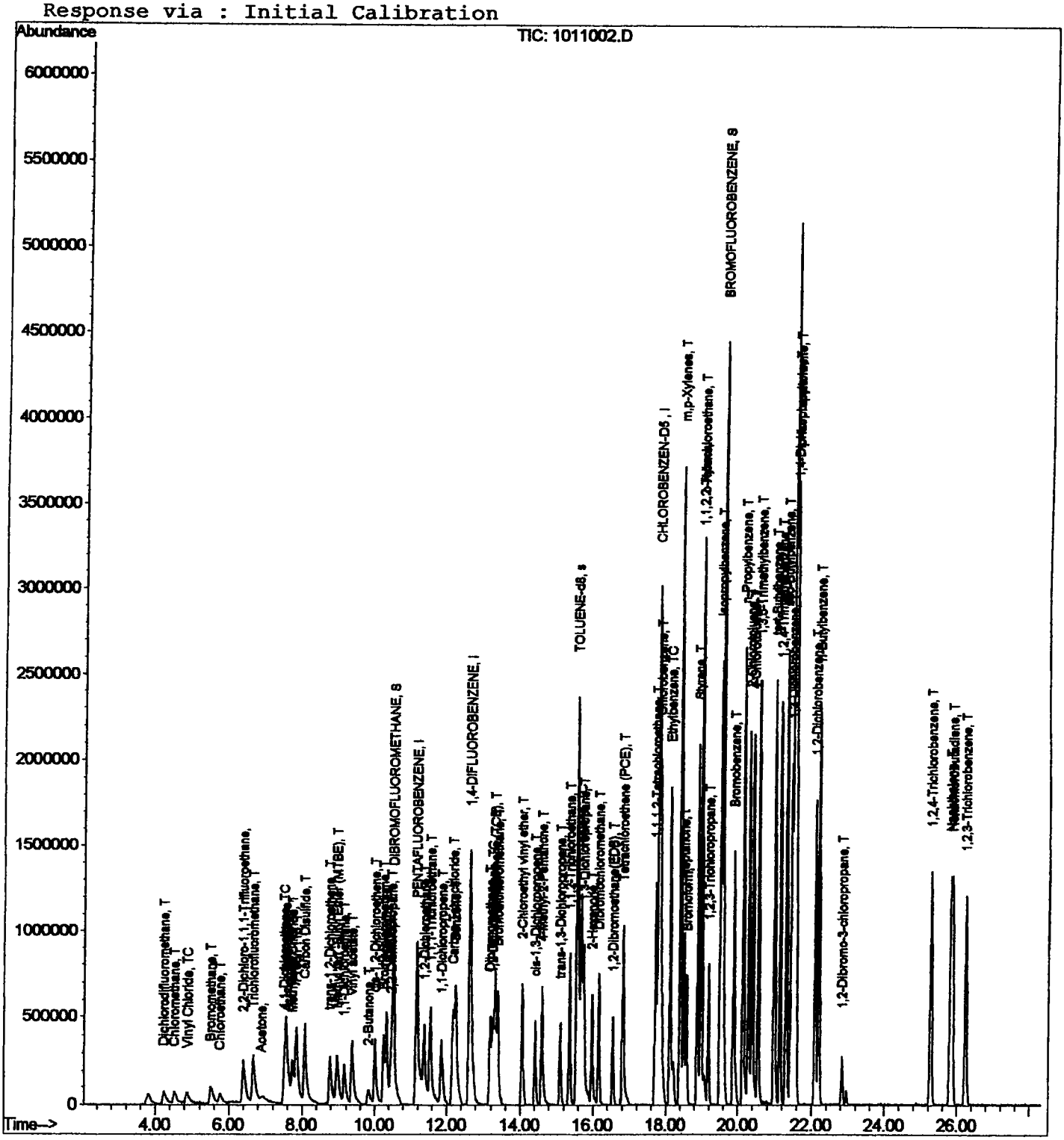
(#) = qualifier out of range (m) = manual integration

Acq On : 11 Oct 98 7:01 pm
Sample : 10 ppb ccv p5
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 23 10:33 19102

Operator:
Inst : MS03
Multiplr: 1.00

Quant Results File: 091598.RES

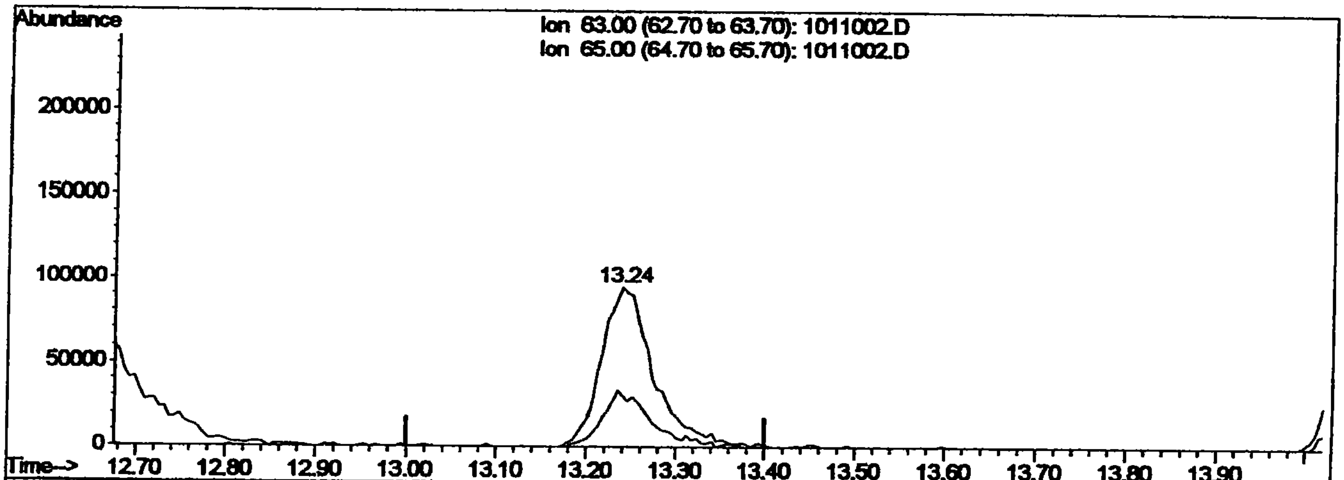
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration

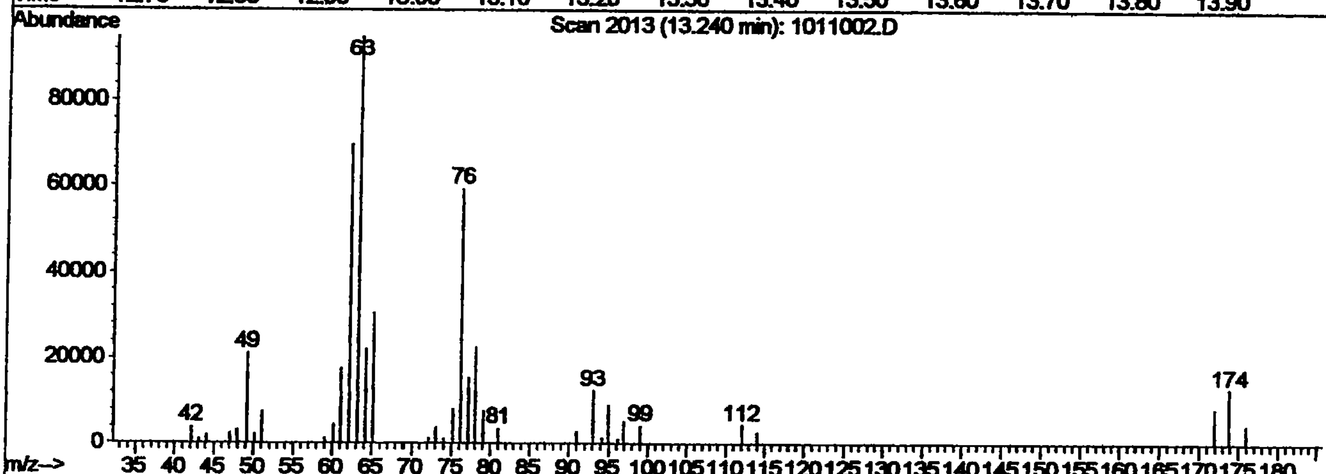


Acq On : 11 Oct 98 7:01 pm
Sample : 10 ppb ccv p5
Misc :
MSaAhtEgmetiMarPa2aAi:2#ta9in02p

Operator:
Inst : MS03
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration





TIC: 1011002.D

(34) 1,2-Dichloropropane (TC)

13.24min 12.24ug/l

response 385447

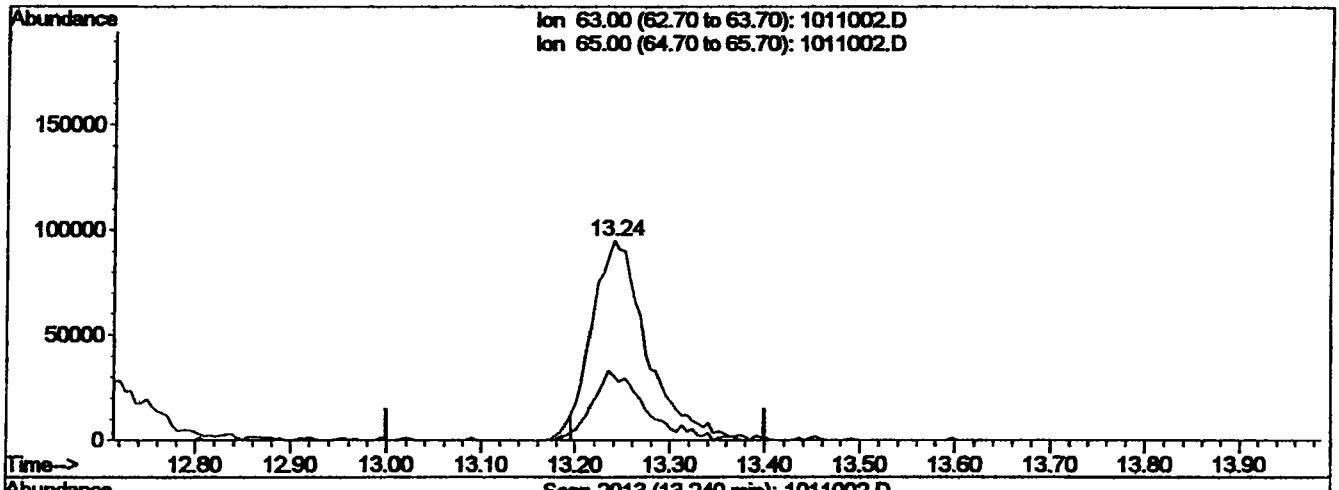
Ion	Exp%	Act%
63.00	100	100
65.00	33.00	32.81
0.00	0.00	0.00
0.00	0.00	0.00

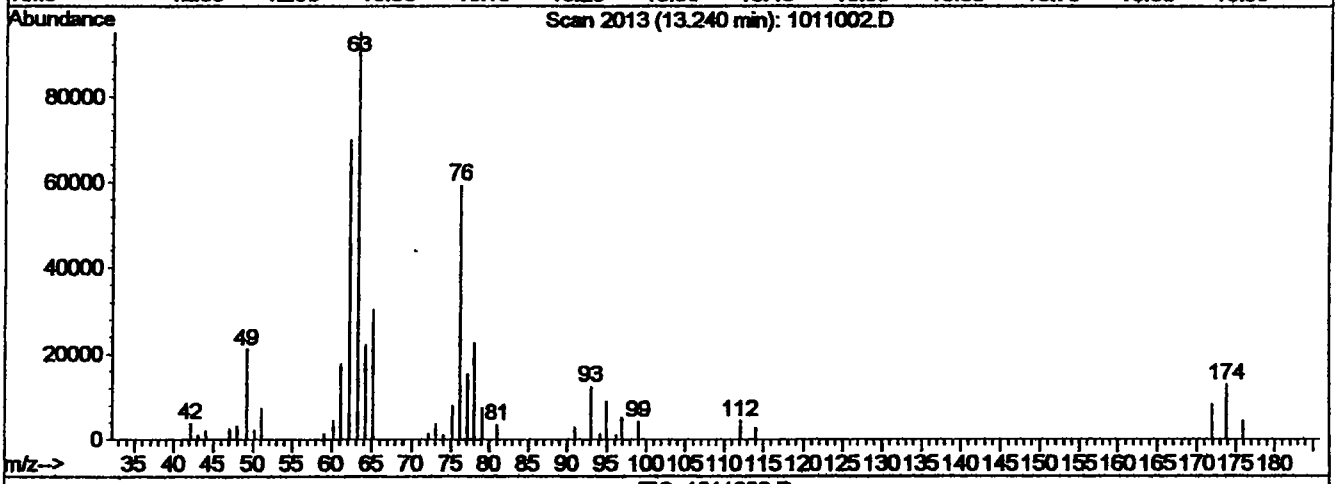
Before

% D = 22.4 % (CCC)

Vial: 2
Acq On : 11 Oct 98 7:01 pm Operator:
Sample : 10 ppb ccv p5 Inst : MS03
Misc : Multiplr: 1.00
[illegible] Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration





TIC: 1011002.D

(34) 1,2-Dichloropropane (TC)

13.24min 11.96ug/l m JF 10/12/98 After

response 376556

%D = 19.6% (ccc)

Ion	Exp%	Act%
63.00	100	100
65.00	33.00	33.59
0.00	0.00	0.00
0.00	0.00	0.00

Acq On : 11 Oct 98 7:36 pm Operator:
Sample : 2 ppb lcs p6 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:40 19102 Quant Results File: 091598.RES

Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.16	99	1364115	25.00	ug/l		-0.02
30) 1,4-DIFLUOROBENZENE	12.64	114	3173779	25.00	ug/l		0.00
44) CHLOROBENZEN-D5	17.79	82	2288811	25.00	ug/l		0.01
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.52	113	1367514	22.24	ug/l		0.03
Spiked Amount 25.000			Recovery = 88.96%				
39) TOLUENE-d8	15.56	98	3749455	24.69	ug/l		0.03
Spiked Amount 25.000			Recovery = 98.76%				
60) BROMOFLUOROBENZENE	19.57	95	2263167	25.16	ug/l		0.03
Spiked Amount 25.000			Recovery = 100.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.25	85	102283	3.56	ug/l		89
3) Chloromethane	4.54	50	69522	2.20	ug/l		80
4) Vinyl Chloride	4.86	62	51493	2.21	ug/l		95
5) Bromomethane	5.51	94	53661	2.04	ug/l	#	72
6) Chloroethane	5.77	64	10990	0.69	ug/l		91
8) Trichlorofluoromethane	6.67	101	81204	1.05	ug/l	#	40
10) 1,1-Dichloroethene	7.53	96	55815	2.04	ug/l	#	80
16) Methylene Chloride	7.73	84	29976	0.97	ug/l	#	1
18) trans-1,2-Dichloroethene	8.77	96	21489	0.71	ug/l	#	1
19) Methyl tert -Butyl Ether (	8.96	73	67918	0.66	ug/l		80
20) 1,1-Dichloroethane	9.15	63	107611	1.81	ug/l	#	72
21) cis-1,2-Dichloroethene	10.01	96	77387	1.90	ug/l	#	81
22) 2,2-Dichloropropane	10.45	77	82999	1.47	ug/l		92
23) Bromochloromethane	10.25	128	52904	2.28	ug/l	#	92
24) Chloroform	10.32	83	184478	2.08	ug/l		97
25) 1,1,1-Trichloroethane	11.58	97	140711	1.82	ug/l		84
26) Carbon Tetrachloride	12.18	119	131308	1.85	ug/l		97
27) 1,2-Dichloroethane	11.38	62	158803	1.96	ug/l		94
28) 1,1-Dichloropropene	11.87	75	108560	1.73	ug/l	#	57
32) Benzene	12.25	78	304085	2.10	ug/l		95
33) Trichloroethene (TCE)	13.30	132	100845	2.06	ug/l		93
34) 1,2-Dichloropropane	13.25	63	81659	2.35	ug/l		90
35) Dibromomethane	13.17	93	69219	2.08	ug/l		85
36) Bromodichloromethane	13.38	83	127783	1.83	ug/l	#	71
38) cis-1,3-Dichloropropene	14.43	75	93090	1.50	ug/l		97
41) trans-1,3-Dichloropropene	15.11	75	84381	1.38	ug/l		92
43) 1,1,2-Trichloroethane	15.37	97	89656	2.06	ug/l		83
45) Tetrachloroethene (PCE)	16.81	164	102849	2.06	ug/l		92

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

Data File : C:\HPCHEM\1\DATA\101198\1011003.D Vial: 3
Acq On : 11 Oct 98 7:36 pm Operator:
Sample : 2 ppb lcs p6 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:40 19102 Quant Results File: 091598.RES

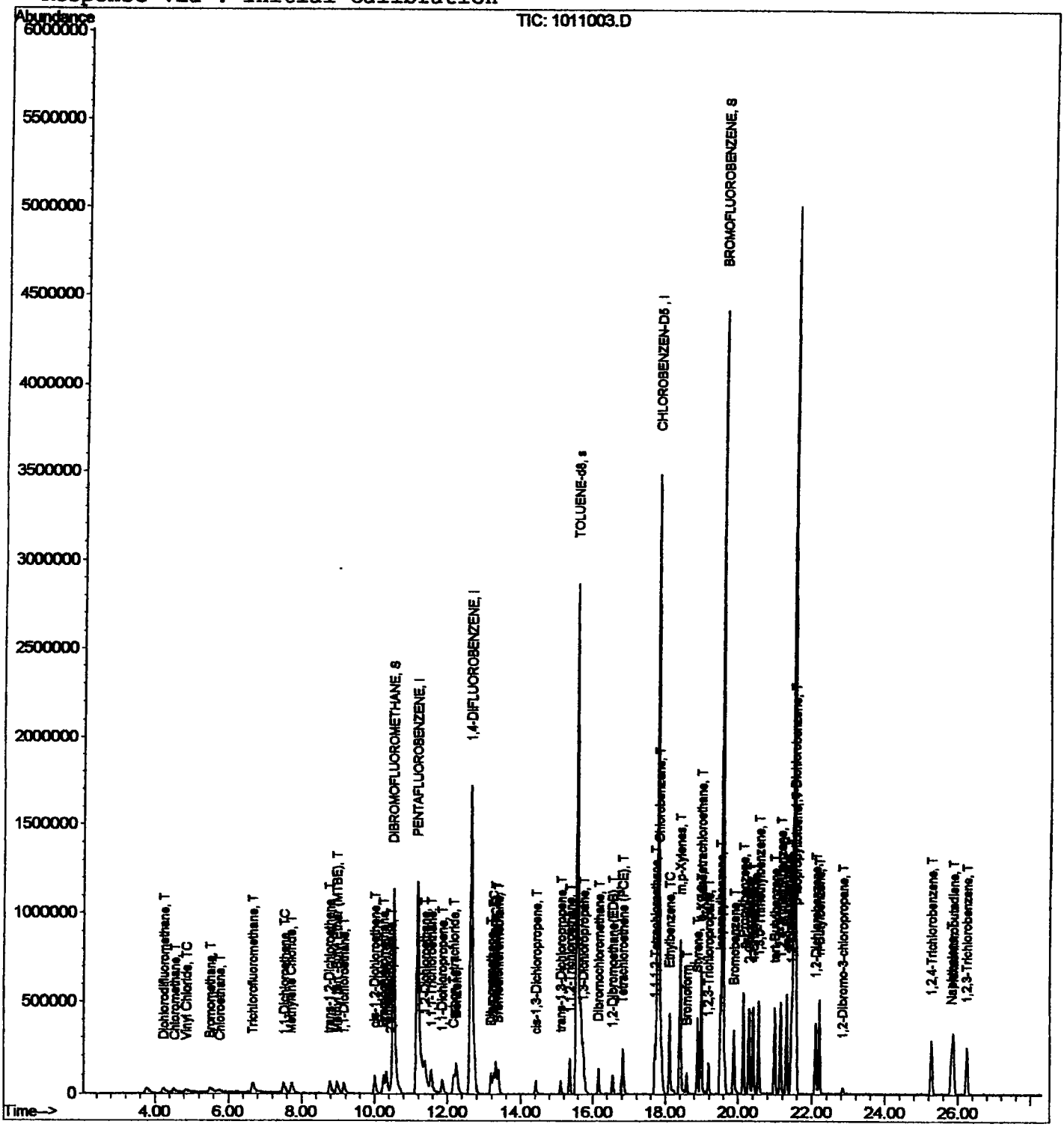
Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,3-Dichloropropane	15.75	76	172939	2.06	ug/l	97
47)	Dibromochloromethane	16.17	129	111416	1.65	ug/l	99
49)	1,2-Dibromoethane(EDB)	16.55	107	105892	1.94	ug/L	99
50)	Chlorobenzene	17.83	112	296214	2.23	ug/l	96
51)	1,1,1,2-Tetrachloroethane	17.72	131	112266	1.89	ug/l	100
52)	Ethylbenzene	18.12	106	134386	1.95	ug/l	97
53)	m,p-Xylenes	18.41	106	398648	4.18	ug/l	96
54)	o-Xylene	18.99	91	497374	2.24	ug/l	99
55)	Bromoform	18.58	173	79122	1.56	ug/l	93
57)	Styrene	18.88	104	274174	1.78	ug/l	95
58)	Isopropylbenzene	19.51	105	547525	2.24	ug/l	94
59)	Bromobenzene	19.89	156	166409	2.41	ug/l	97
61)	n-Propylbenzene	20.14	91	659261	2.14	ug/l	96
62)	2-Chlorotoluene	20.29	91	421117	2.25	ug/l	93
63)	1,2,3-Trichloropropane	19.18	75	115415	1.88	ug/l	90
64)	4-Chlorotoluene	20.41	91	461659	2.31	ug/l	100
65)	1,1,2,2-Tetrachloroethane	18.98	83	142862	2.13	ug/l	94
66)	1,2,4-Trimethylbenzene	21.15	105	464547	2.11	ug/l	97
67)	tert-Butylbenzene	20.99	119	373619	1.85	ug/l	91
68)	1,3,5-Trimethylbenzene	20.56	105	466059	2.10	ug/l	99
69)	sec-Butylbenzene	21.31	105	586406	2.11	ug/l	96
70)	1,3-Dichlorobenzene	21.44	146	302439	2.25	ug/l	94
71)	p-Isopropyltoluene	21.57	119	508275	2.16	ug/l	99
72)	1,4-Dichlorobenzene	21.55	146	330783	2.45	ug/l	95
73)	1,2-Dichlorobenzene	22.10	146	272312	2.15	ug/l	99
74)	n-Butylbenzene	22.20	91	466676	2.14	ug/l	95
75)	1,2-Dibromo-3-chloropropan	22.85	75	22818	1.37	ug/l	96
76)	1,2,4-Trichlorobenzene	25.27	180	183130	1.99	ug/l	94
77)	Hexachlorobutadiene	25.87	225	138176	2.55	ug/l	100
78)	Naphthalene	25.82	128	319736	1.58	ug/l	100
79)	1,2,3-Trichlorobenzene	26.24	180	175529	2.01	ug/l	97

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

Data File : C:\HPCHEM\1\DATA\011503\1011003.D Vial: 3
Acq On : 11 Oct 98 7:36 pm Operator:
Sample : 2 ppb lcs p6 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:40 19102 Quant Results File: 091598.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Data File : [illegible] Vial: 5
Acq On : 11 Oct 98 8:13 pm Operator:
Sample : blank p7 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 20:07 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE	11.17	99	1246413	25.00	ug/l	0.03
30) 1,4-DIFLUOROBENZENE	12.64	114	3174899	25.00	ug/l	0.04
44) CHLOROBENZEN-D5	17.79	82	2341366	25.00	ug/l	0.02
System Monitoring Compounds						
29) DIBROMOFLUOROMETHANE	10.52	113	1332603	23.33	ug/l	0.03
Spiked Amount 25.000			Recovery = 93.32%			
39) TOLUENE-d8	15.56	98	4027297	26.27	ug/l	0.03
Spiked Amount 25.000			Recovery = 105.08%			
60) BROMOFLUOROBENZENE	19.57	95	2314579	25.37	ug/l	0.03
Spiked Amount 25.000			Recovery = 101.48%			
Target Compounds						Qvalue
9) Acetone	6.94	43	20316	~~1.65 ug/l~~	#	76
46) 1,3-Dichloropropane	15.57	76	56447	~~0.66 ug/l~~		71

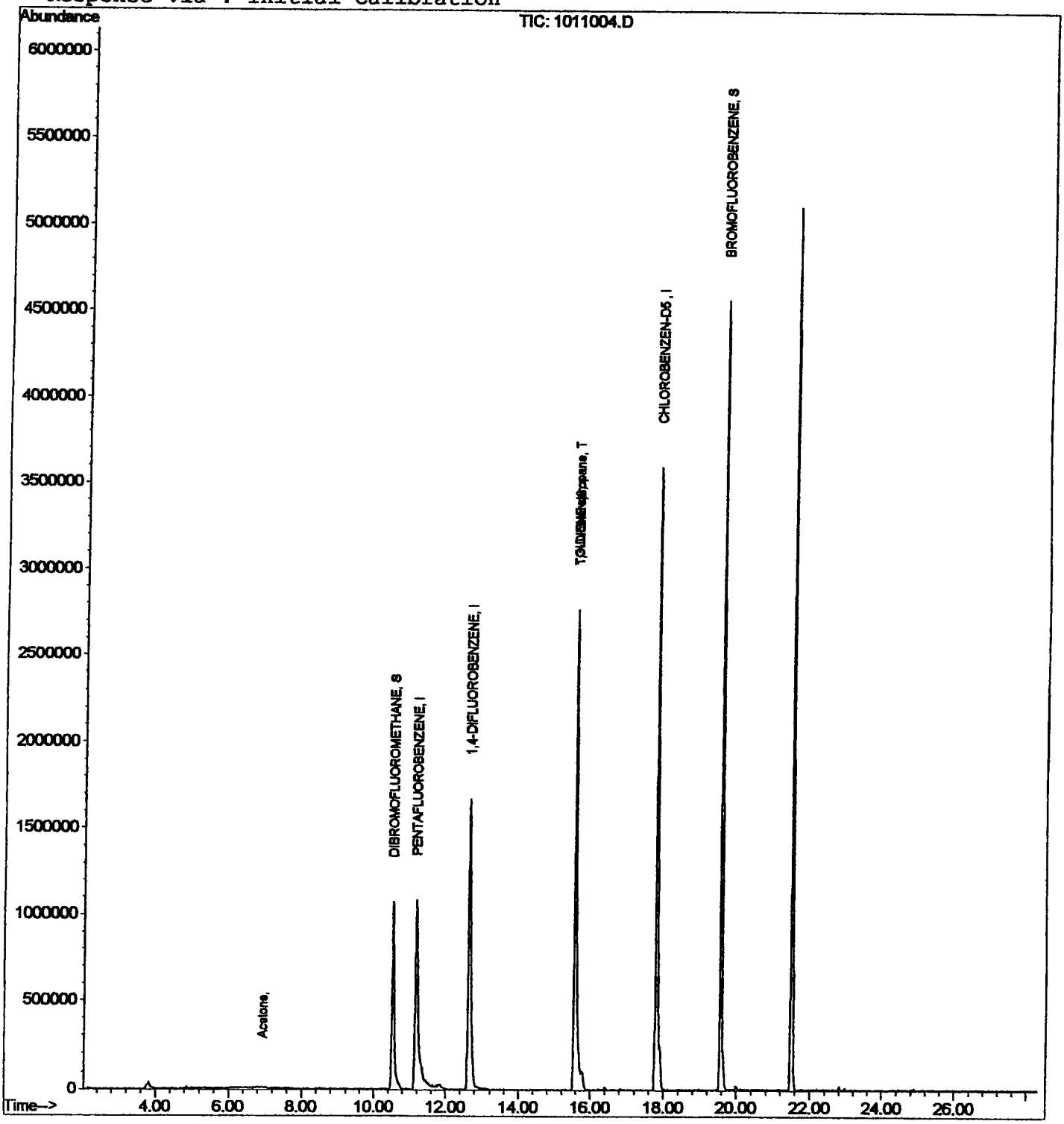
< R.L.

SF 10/12/98

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

Data File : C:\HPCHEM\1\DATA\101198\1011004.D Vial: 5
Acq On : 11 Oct 98 8:13 pm Operator:
Sample : blank p7 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 20:07 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\101190\1011005.D Vial: 6
Acq On : 11 Oct 98 8:50 pm Operator:
Sample : Sample-1 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:41 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

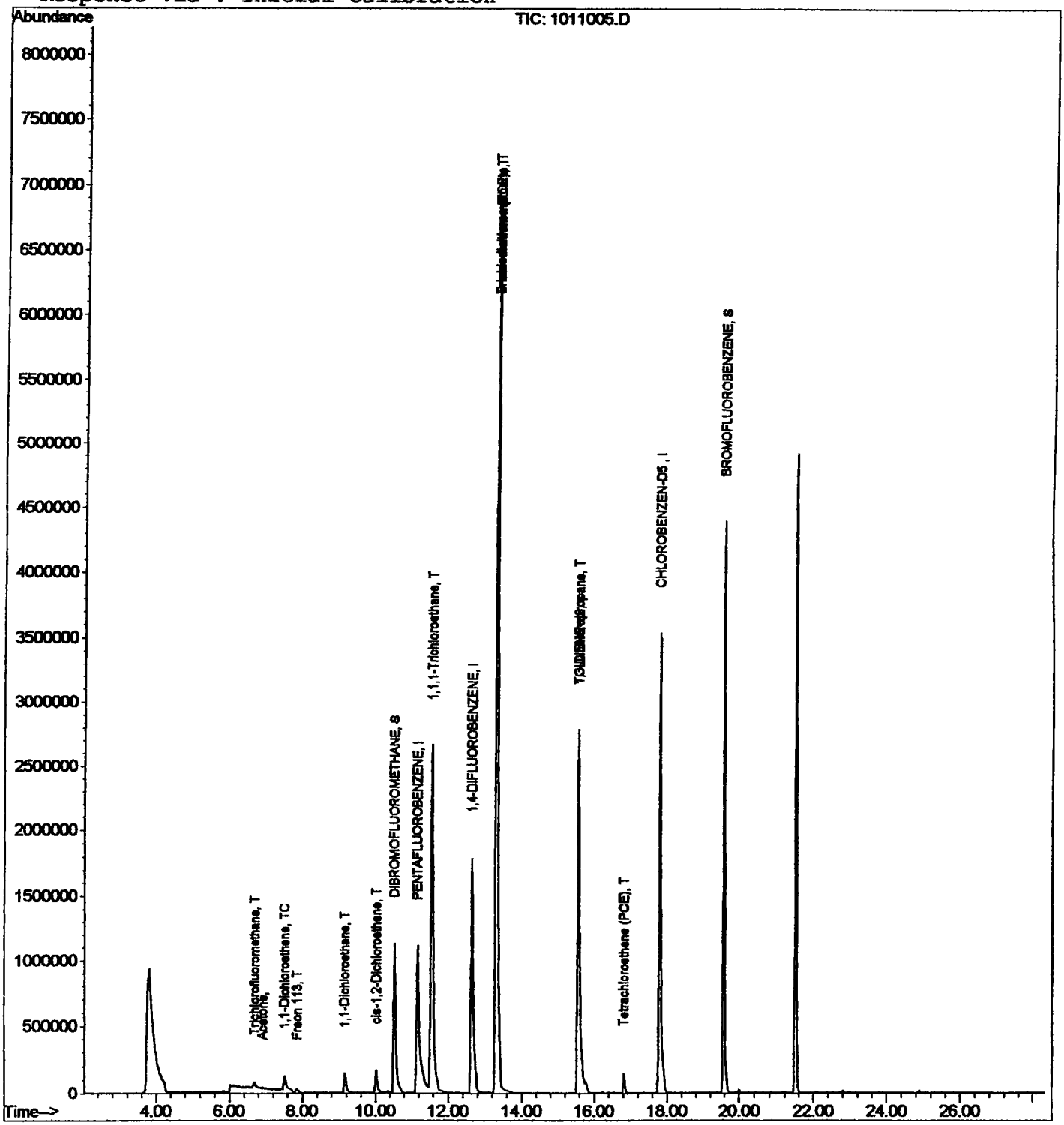
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)	
1) PENTAFLUOROBENZENE	11.17	99	1295190	25.00	ug/l		-0.02	
30) 1,4-DIFLUOROBENZENE	12.64	114	3266764	25.00	ug/l		0.00	
44) CHLOROBENZEN-D5	17.79	82	2277700	25.00	ug/l		0.01	
System Monitoring Compounds								
29) DIBROMOFLUOROMETHANE	10.52	113	1339937	22.57	ug/l		0.04	
Spiked Amount 25.000			Recovery = 90.28%					
39) TOLUENE-d8	15.56	98	1239610	24.86	ug/l		0.03	
Spiked Amount 25.000			Recovery = 98.44%					
60) BROMOFLUOROBENZENE	19.57	95	2260735	25.47	ug/l		0.03	
Spiked Amount 25.000			Recovery = 101.88%					
Target Compounds							Qvalue	
8) Trichlorofluoromethane	6.70	101	116561	1.70	ug/l		97	
9) Acetone	6.93	43	20584	~~1.61 ug/l~~		#	78	FP
10) 1,1-Dichloroethene	7.53	96	101760	3.92	ug/l	#	84	
13) Freon 113	7.86	101	27888	~~0.77 ug/l~~			100	
20) 1,1-Dichloroethane	9.17	63	291320	5.07	ug/l		94	
21) cis-1,2-Dichloroethene	10.03	96	150687	3.91	ug/l		91	
25) 1,1,1-Trichloroethane	11.55	97	3677903	50.22	ug/l		92	
33) Trichloroethene (TCE)	13.31	132	4532843	95.46	ug/l		98	
36) Bromodichloromethane	13.31	83	59959	~~0.83 ug/l~~		#	95	<RL
45) Tetrachloroethene (PCE)	16.81	164	61692	1.26	ug/l		88	
46) 1,3-Dichloropropane	15.57	76	60694	~~0.73 ug/l~~			84	<RL

JF 10/12/98

(#) = qualifier out of range (m) = manual integration
1011005.D 091598.M Sat Mar 23 10:42:25 2002

Data File : C:\HPCHEM\1\DATA\101105\1011005.D Vial: 6
Acq On : 11 Oct 98 8:50 pm Operator:
Sample : Sample-1 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 10:41 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\101198\1011006.D Vial: 7
Acq On : 11 Oct 98 9:28 pm Operator:
Sample : Sample-2 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 22 21:42 19102 Quant Results File: 091598.RES

Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:23:49 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE	11.17	99	1241292	25.00	ug/l	-0.02
30) 1,4-DIFLUOROBENZENE	12.64	114	2956971	25.00	ug/l	0.00
44) CHLOROBENZEN-D5	17.79	82	2284296	25.00	ug/l	0.01
System Monitoring Compounds						
29) DIBROMOFLUOROMETHANE	10.53	113	1345991	24.06	ug/l	0.04
Spiked Amount 25.000			Recovery = 96.24%			
39) TOLUENE-d8	15.56	98	3556523	25.13	ug/l	0.03
Spiked Amount 25.000			Recovery = 100.52%			
60) BROMOFLUOROBENZENE	19.57	95	2302424	25.64	ug/l	0.03
Spiked Amount 25.000			Recovery = 102.56%			
Target Compounds						Qvalue
25) 1,1,1-Trichloroethane	11.55	97	43018	~~0.61~~	~~ug/l~~	79
33) Trichloroethene (TCE)	13.32	132	32198	~~0.71~~	~~ug/l~~	89
45) Tetrachloroethene (PCE)	16.82	164	78721	1.58	ug/l	90

< RL

JF 10/12/98

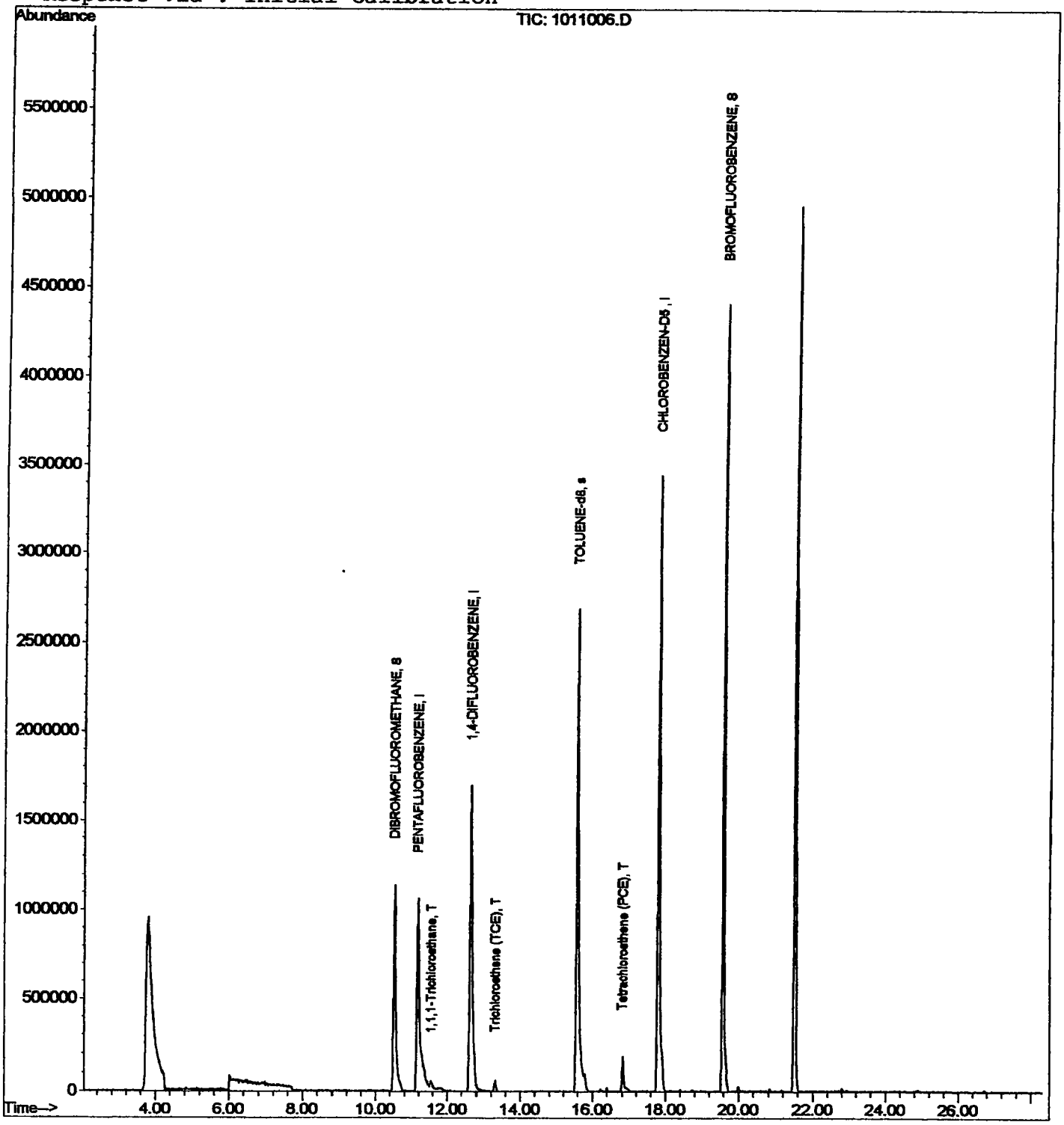
(#) = qualifier out of range (m) = manual integration
1011006.D 091598.M Sat Mar 23 10:48:24 2002 Page 1

Acq On : 11 Oct 98 9:28 pm
Sample : Sample-2
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 22 21:42 19102

Vial: 7
Operator:
Inst : MS03
Multiplr: 1.00

Quant Results File: 091598.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Acq On : 11 Oct 98 10:05 pm
Sample : Sample-3 1/~~50~~
Misc : 50
MS Integration Params: rteint.p
Quant Time: Mar 23 10:50 19102

Operator:
Inst : MS03
Multiplr: ~~1.00~~ 50
Quant Results File: 091598.RES

Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:44:45 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE	11.17	99	1335119	25.00	ug/l	0.00
30) 1,4-DIFLUOROBENZENE	12.64	114	3057106	25.00	ug/l	0.00
44) CHLOROBENZEN-D5	17.79	82	2348504	25.00	ug/l	0.02
System Monitoring Compounds						
29) DIBROMOFLUOROMETHANE	10.53	113	1220793	20.29	ug/l	0.04
Spiked Amount 25.000	Range 21 - 115		Recovery = 81.16%			
39) TOLUENE-d8	15.56	98	3671582	25.10	ug/l	0.04
Spiked Amount 25.000			Recovery = 100.40%			
60) BROMOFLUOROBENZENE	19.57	95	2323594	25.17	ug/l	0.03
Spiked Amount 25.000			Recovery = 100.68%			
Target Compounds						Qvalue
10) 1,1-Dichloroethene	7.51	96	430236	16.10	ug/l #	86
13) Freon 113	7.85	101	294445	7.72	ug/l	100
20) 1,1-Dichloroethane	9.16	63	1167413	20.06	ug/l	94
21) cis-1,2-Dichloroethene	10.02	96	2015894	50.63	ug/l	91
25) 1,1,1-Trichloroethane	11.55	97	1291914	17.05	ug/l	93
33) Trichloroethene (TCE)	13.31	132	1542048	32.73	ug/l	97
34) 1,2-Dichloropropane	13.24	63	38124	1.14	ug/l	70
43) 1,1,2-Trichloroethane	15.36	97	43197	1.03	ug/l	90
46) 1,3-Dichloropropane	15.56	76	55825	0.65	ug/l	73

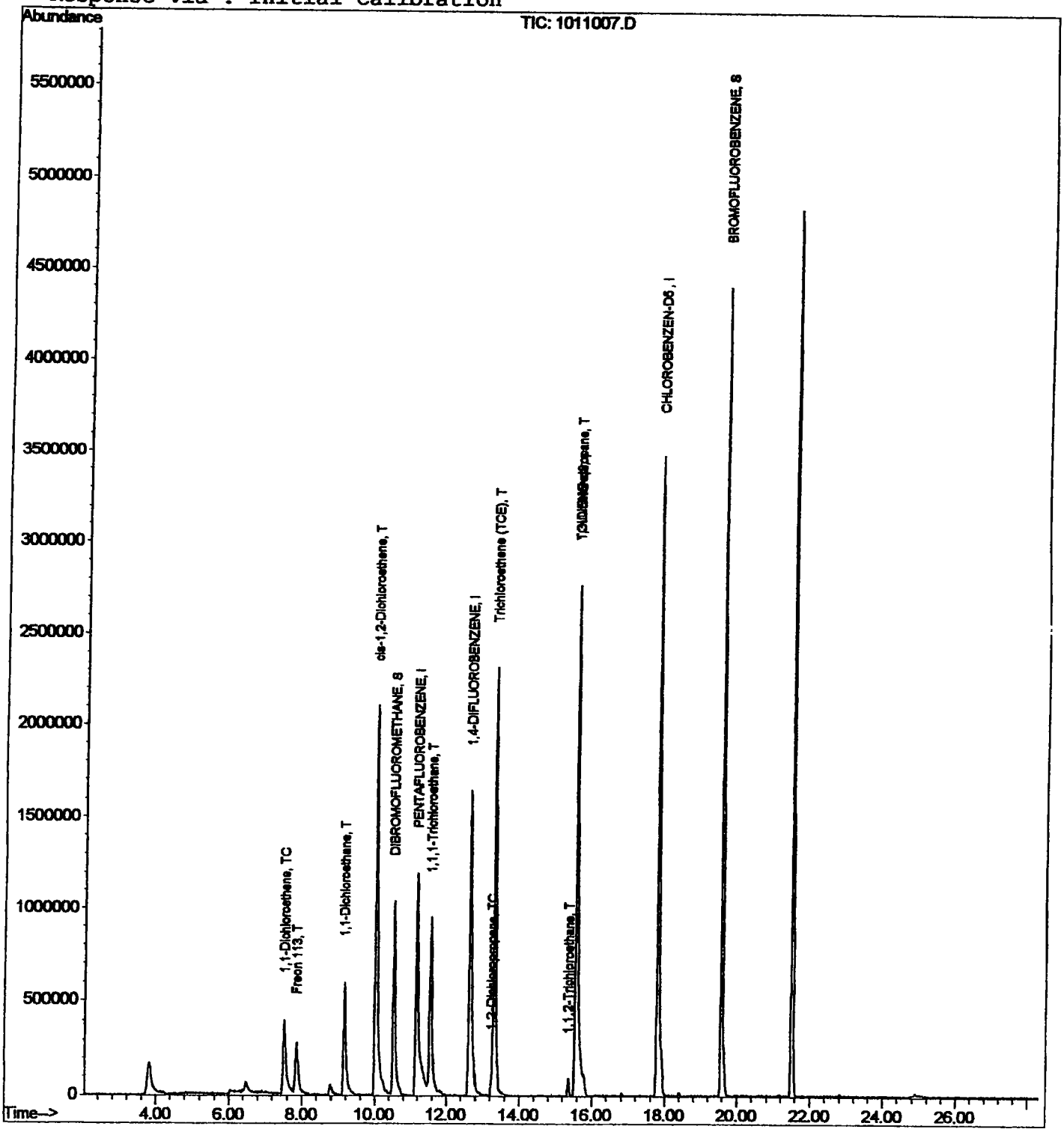
(#) = qualifier out of range (m) = manual integration

Acq On : 11 Oct 98 10:05 pm
Sample : Sample-3 1/20
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 23 10:50 19102

Vial: 8
Operator:
Inst : MS03
Multiplr: 1.00

Quant Results File: 091598.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Acq On : 11 Oct 98 10:42 pm
Sample : Sample-4 1/20
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 23 11:58 19102

Operator:
Inst : MS03
Multiplr: 1.00

Quant Results File: 091598.RES

Quant Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:23:49 2002
Response via : Initial Calibration
DataAcq Meth : 091598

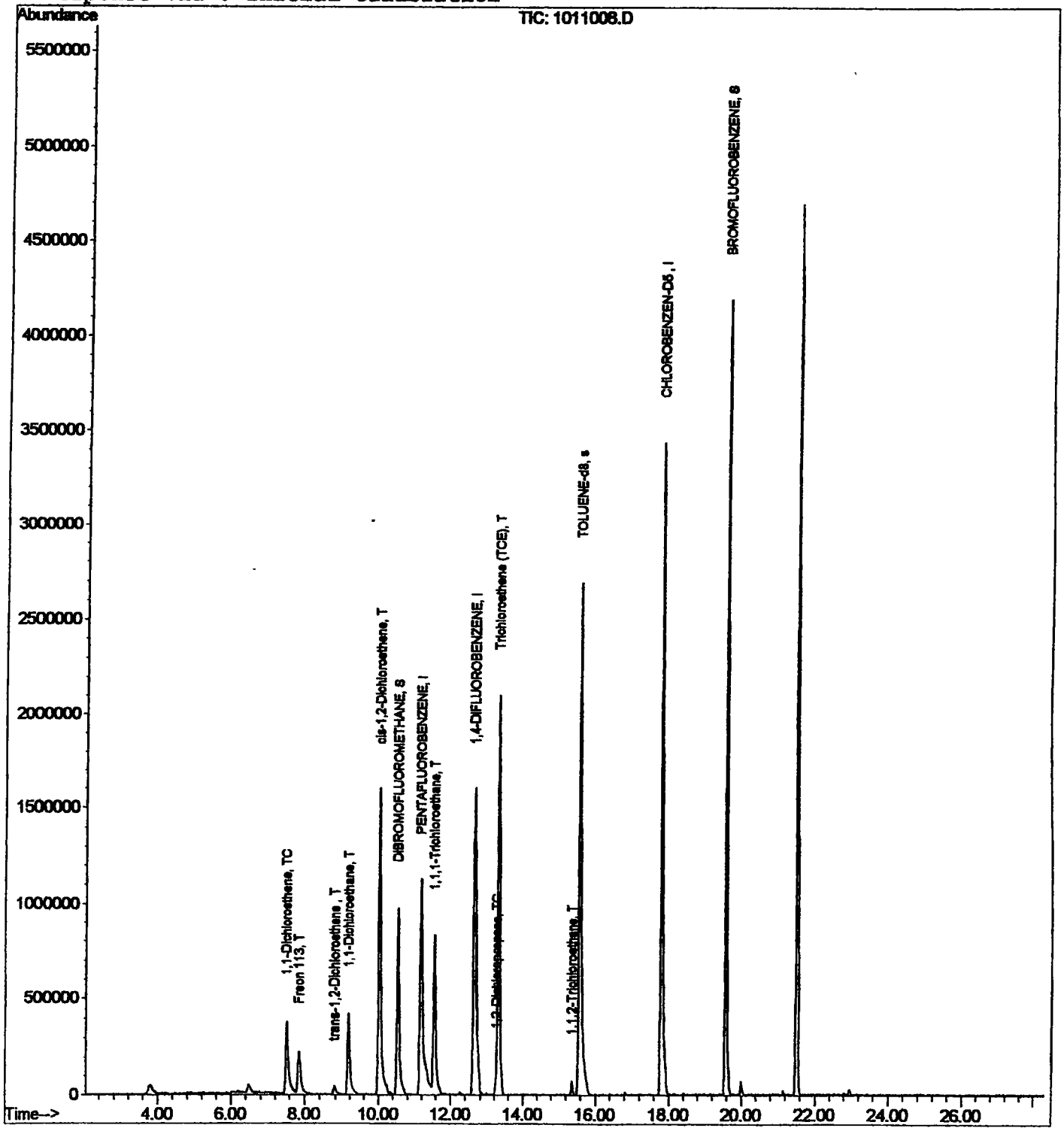
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE	11.17	99	1492788m	25.00	ug/l	-0.02
30) 1,4-DIFLUOROBENZENE	12.64	114	2840923	25.00	ug/l	0.00
44) CHLOROBENZEN-D5	17.79	82	2176303	25.00	ug/l	0.01

JF 10/12/98

System Monitoring Compounds						
29) DIBROMOFLUOROMETHANE	10.53	113	1173900	17.45	ug/l	0.05
Spiked Amount 25.000			Recovery = 69.80%			
39) TOLUENE-d8	15.56	98	3518563	25.88	ug/l	0.03
Spiked Amount 25.000			Recovery = 103.52%			
60) BROMOFLUOROBENZENE	19.57	95	2140969	25.03	ug/l	0.03
Spiked Amount 25.000			Recovery = 100.12%			

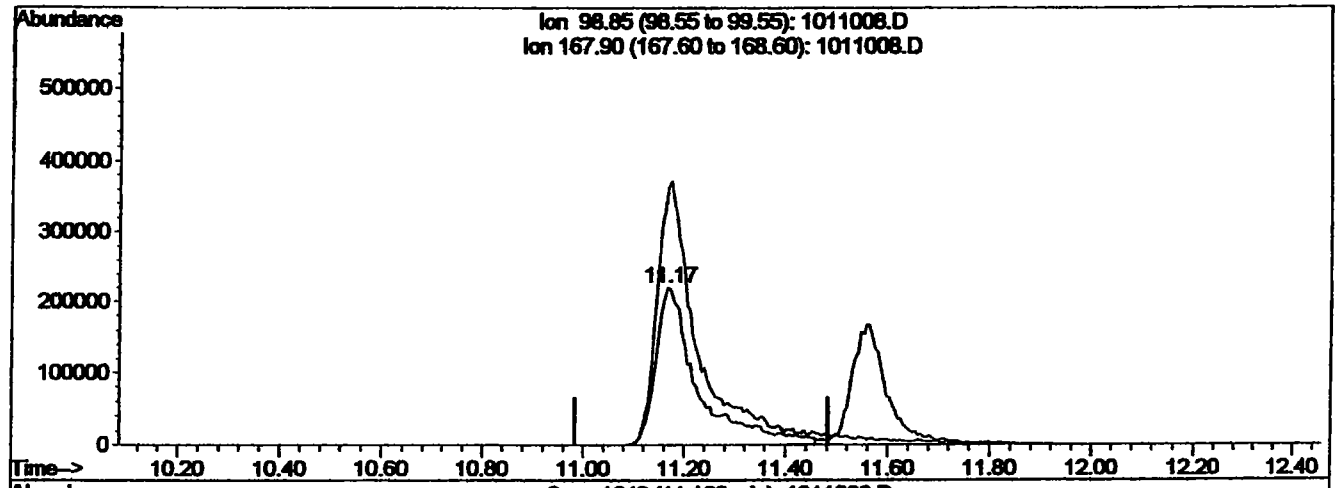
Target Compounds						Qvalue
10) 1,1-Dichloroethene	7.51	96	391521	13.11	ug/l #	85
13) Freon 113	7.86	101	241520	5.67	ug/l	100
18) trans-1,2-Dichloroethene	8.79	96	35291	1.06	ug/l	93
20) 1,1-Dichloroethane	9.16	63	864796	13.29	ug/l	93
21) cis-1,2-Dichloroethene	10.02	96	1489226	33.45	ug/l	91
25) 1,1,1-Trichloroethane	11.55	97	1114904	13.16	ug/l	90
33) Trichloroethene (TCE)	13.32	132	1372407	31.35	ug/l	97
34) 1,2-Dichloropropane	13.25	63	68858	2.21	ug/l	86
43) 1,1,2-Trichloroethane	15.36	97	35352	0.91	ug/l	84

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


Abundance
TIC: 1011008.D
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time-->
4.00
6.00
8.00
10.00
12.00
14.00
16.00
18.00
20.00
22.00
24.00
26.00
1,1-Dichloroethene, TC
Freon 113, T
trans-1,2-Dichloroethene, T
1,1-Dichloroethane, T
cis-1,2-Dichloroethene, T
DIBROMOFLUOROMETHANE, S
PENTAFLUOROBENZENE, I
1,1,1-Trichloroethane, T
1,4-DIFLUOROBENZENE, I
Trichloroethene (TCE), T
1,1,2-Trichloroethane, T
TOLUENE-d8, S
CHLOROBENZEN-D5, I
BROMOFLUOROBENZENE, S

Data File : C:\HPCHEM\1\DATA\101598\1011008.D Vial: 9
Acq On : 11 Oct 98 10:42 pm Operator:
Sample : Sample-4 1/20 Inst : MS03
Misc : Multiplr: 1.00
MSIntFgmetiMarP22am1:38te9n02p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



TIC: 1011008.D

(1) PENTAFLUOROBENZENE (I)

11.17min 25.00ug/l

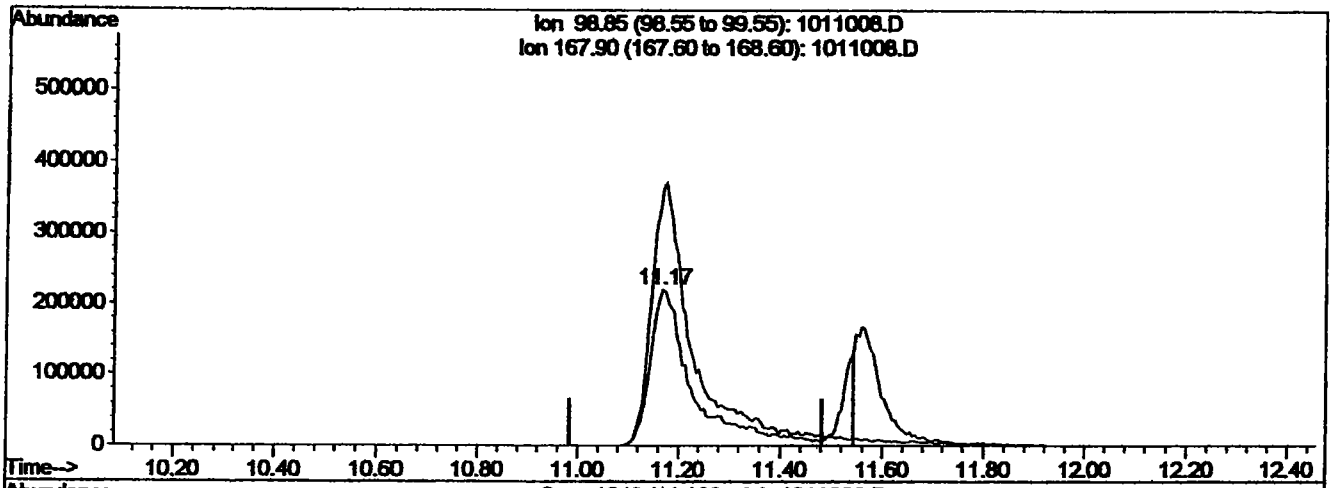
response 1282301

Before

Ion	Exp%	Act%
98.85	100	100
167.90	145.90	164.10
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\101598\1011008.D Vial: 9
Acq On : 11 Oct 98 10:42 pm Operator:
Sample : Sample-4 1/20 Inst : MS03
Misc : Multiplr: 1.00
MSIntgrati MarPar 23 11:58:19 2002 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



TIC: 1011008.D

(1) PENTAFLUOROBENZENE (I)

11.17min 25.00ug/l m JF 10/12/98 After

response 1492788

Ion	Exp%	Act%
98.85	100	100
167.90	145.90	140.96
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\101198\1011009.D Vial: 10
Acq On : 11 Oct 98 11:19 pm Operator:
Sample : Sample-5 1/10 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 20:47 19102 Quant Results File: QUANT.RES

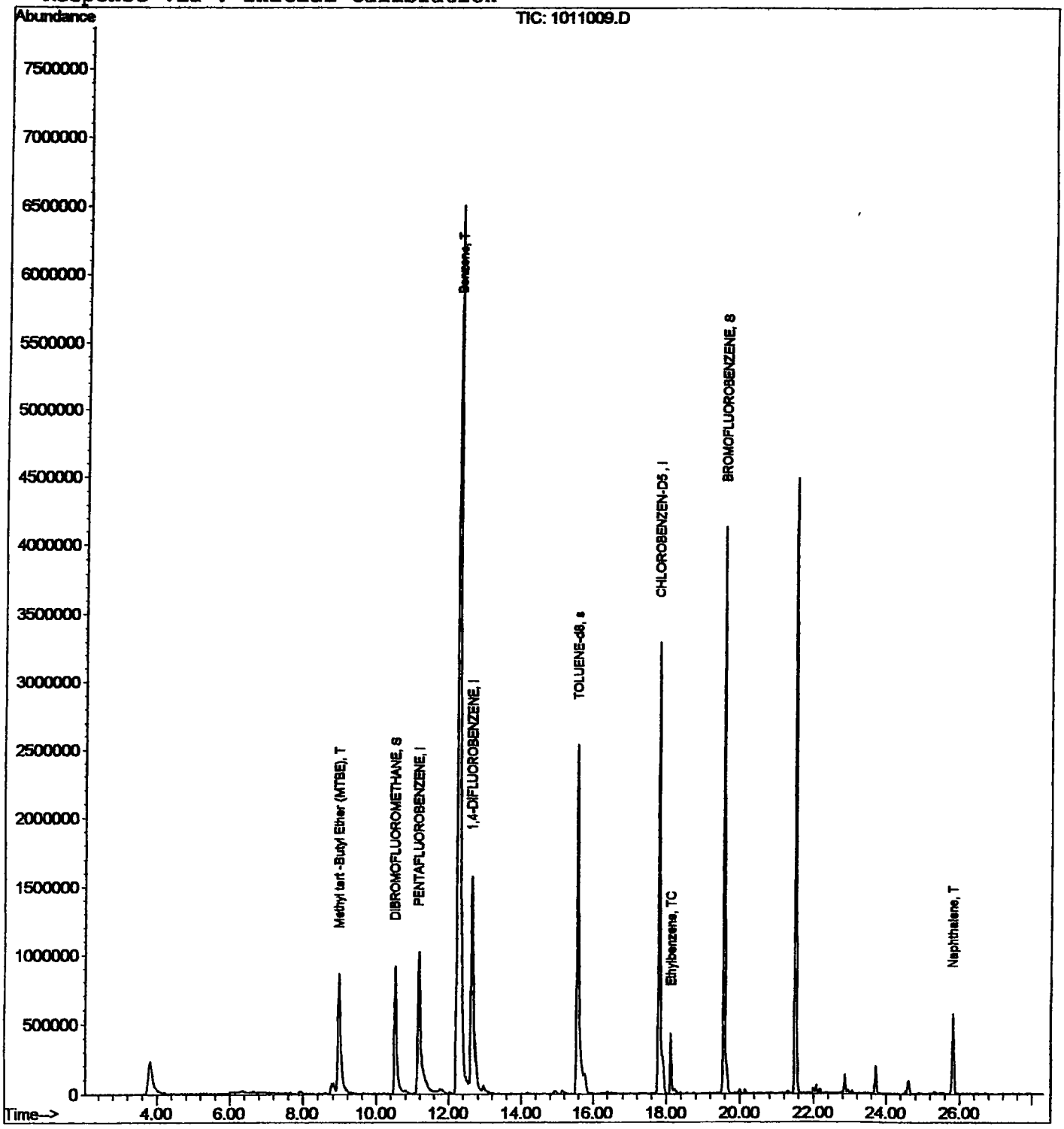
Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE	11.17	99	1178196	25.00	ug/l	-0.01
30) 1,4-DIFLUOROBENZENE	12.64	114	2930091	25.00	ug/l	0.00
44) CHLOROBENZEN-D5	17.79	82	2143472	25.00	ug/l	0.02
System Monitoring Compounds						
29) DIBROMOFLUOROMETHANE	10.52	113	1105916	20.48	ug/l	0.04
Spiked Amount 25.000			Recovery = 81.92%			
39) TOLUENE-d8	15.56	98	3344964	23.64	ug/l	0.04
Spiked Amount 25.000			Recovery = 94.56%			
60) BROMOFLUOROBENZENE	19.57	95	2121952	25.41	ug/l	0.03
Spiked Amount 25.000			Recovery = 101.64%			
Target Compounds						Qvalue
19) Methyl tert -Butyl Ether (	8.97	73	2347204	26.12	ug/l	87
32) Benzene	12.26	78	15176335	114.25	ug/l	98
52) Ethylbenzene	18.13	106	129677	2.12	ug/l	98
78) Naphthalene	25.82	128	918699	4.83	ug/l	100

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

Data File : C:\HPCHEM\1\DATA\101198\1011009.D Vial: 10
Acq On : 11 Oct 98 11:19 pm Operator:
Sample : Sample-5 1/10 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 20:47 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\101198\1011011.D Vial: 12
Acq On : 12 Oct 98 12:34 am Operator:
Sample : Sample-7 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 12:08 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

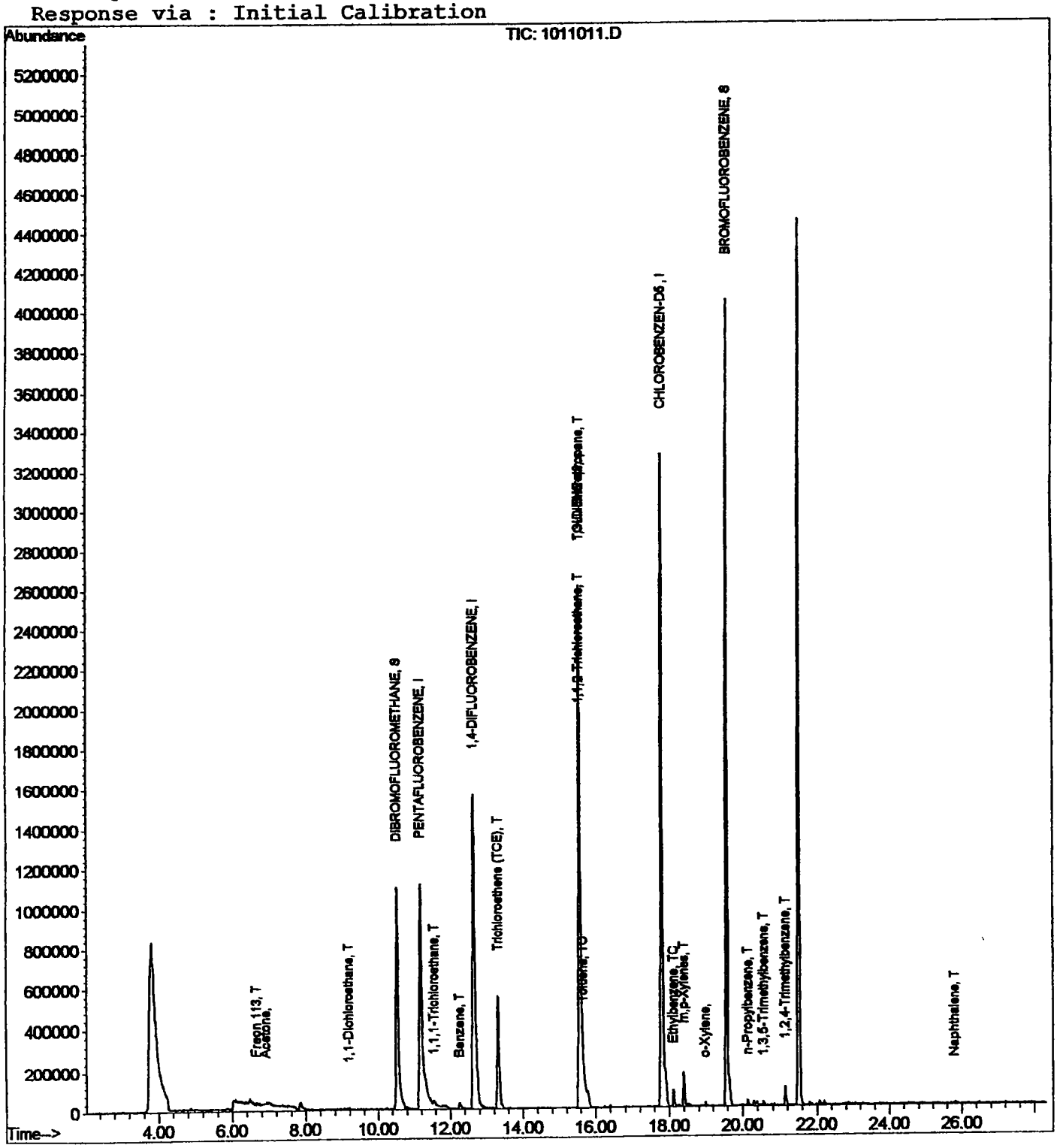
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE	11.17	99	1244070	25.00 ug/l	0.04
30) 1,4-DIFLUOROBENZENE	12.64	114	2946622	25.00 ug/l	0.05
44) CHLOROBENZEN-D5	17.78	82	2143029	25.00 ug/l	0.00
System Monitoring Compounds					
29) DIBROMOFLUOROMETHANE	10.53	113	1325876	23.25 ug/l	0.04
Spiked Amount 25.000			Recovery =	93.00%	
39) TOLUENE-d8	15.56	98	3746789	26.33 ug/l	0.04
Spiked Amount 25.000			Recovery =	105.32%	
60) BROMOFLUOROBENZENE	19.57	95	2091796	25.05 ug/l	0.03
Spiked Amount 25.000			Recovery =	100.20%	
Target Compounds					Qvalue
9) Acetone	6.92	43	13831	~~1.13 ug/l~~ #	68 FP
13) Freon 113	6.67	101	3121m	~~0.09 ug/l~~	100 < R.L.
20) 1,1-Dichloroethane	9.18	63	13631	~~0.25 ug/l~~ #	55
25) 1,1,1-Trichloroethane	11.55	97	27314	~~0.39 ug/l~~ #	1
32) Benzene	12.26	78	66036	~~0.49 ug/l~~	87
33) Trichloroethene (TCE)	13.31	132	357092	8.34 ug/l	97
42) Toluene	15.66	92	20809	~~0.23 ug/l~~ #	73 > < R.L.
43) 1,1,2-Trichloroethane	15.54	97	4046	~~0.10 ug/l~~ #	24
46) 1,3-Dichloropropane	15.55	76	52889	~~0.67 ug/l~~	75 FP
52) Ethylbenzene	18.12	106	24670	~~0.40 ug/l~~ #	84 < R.L.
53) m,p-Xylenes	18.39	106	79459	1.00 ug/l #	87
54) o-Xylene	18.99	91	17217	~~0.09 ug/l~~ #	85 > < R.L.
61) n-Propylbenzene	20.14	91	33875	~~0.12 ug/l~~	98
66) 1,2,4-Trimethylbenzene	21.14	105	103732	0.51 ug/l	100
68) 1,3,5-Trimethylbenzene	20.57	105	25418	~~0.13 ug/l~~	90 > < R.L.
78) Naphthalene	25.80	128	16981	~~0.09 ug/l~~	100

JF 10/12/98

(#) = qualifier out of range (m) = manual integration
1011011.D 091598.M Sat Mar 23 12:13:34 2002 Page 1

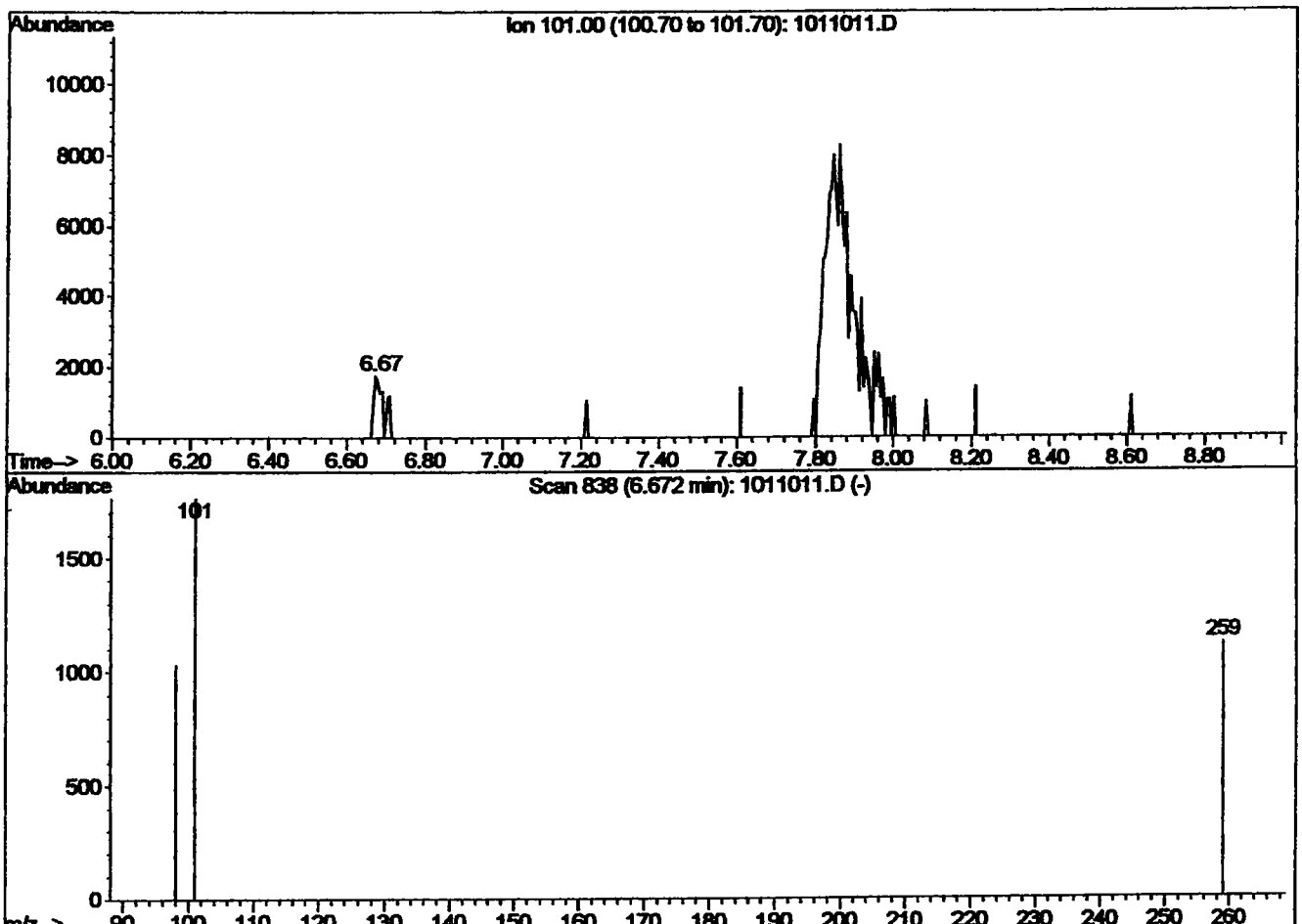
Data File : C:\HPCHEM\1\DATA\101198\1011011.D Vial: 12
Acq On : 12 Oct 98 12:34 am Operator:
Sample : Sample-7 Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 23 12:08 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\101198\1011011.D Vial: 12
Acq On : 12 Oct 98 12:34 am Operator:
Sample : Sample-7 Inst : MS03
Misc : Multiplr: 1.00
MeanIntegmetiMarPa3am8:08te9102p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Multiple Level Calibration



(13) Freon 113 (T)

6.67min 0.09ug/l m JF 10/12/98

response 3121

After

Ion	Exp%	Act%
101.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\101198\101107.D Vial: 18
Acq On : 12 Oct 98 4:18 am Operator:
Sample : Sample-3 MS Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 21:00 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

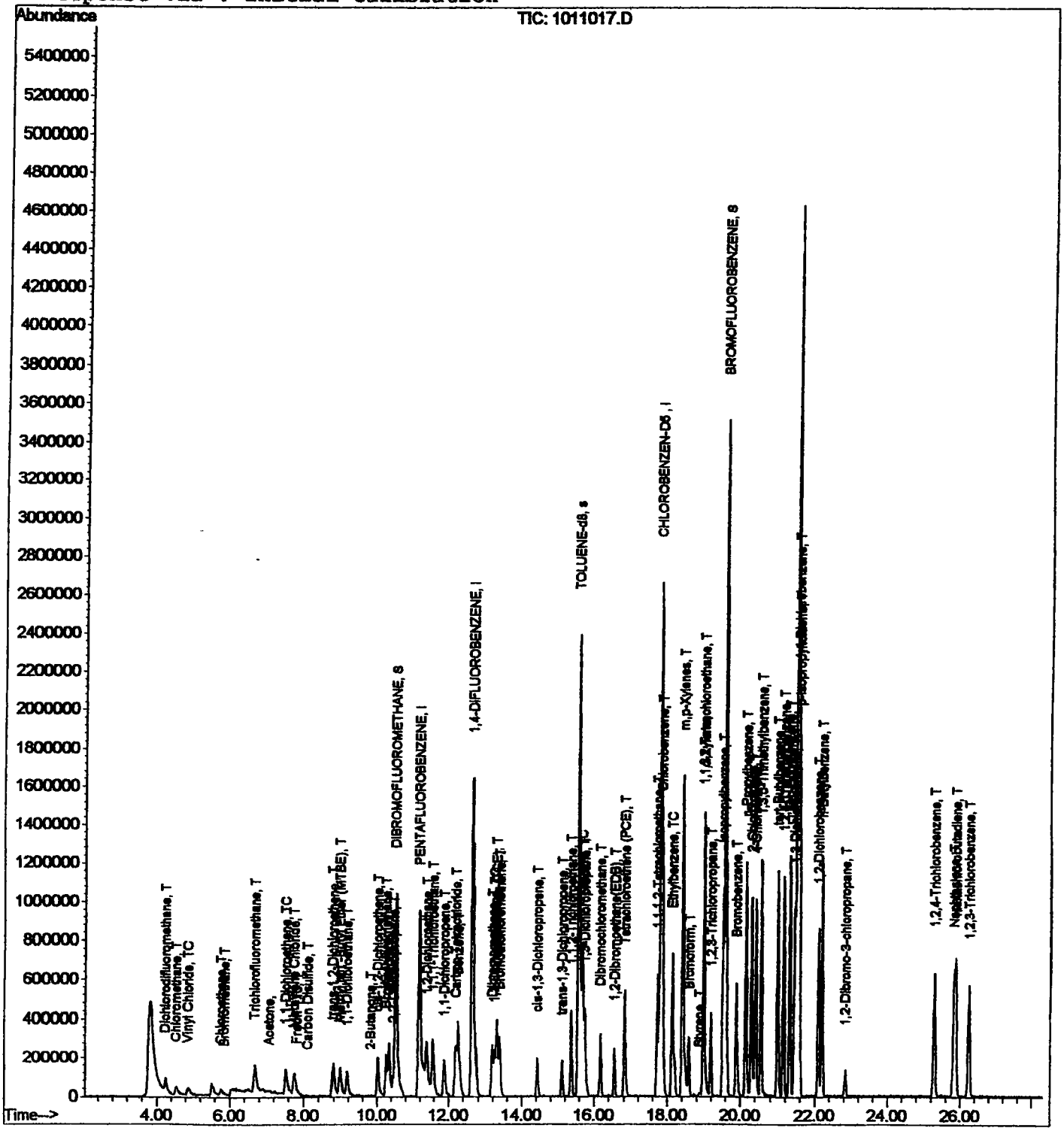
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.18	99	1070550	25.00	ug/l		0.05
30) 1,4-DIFLUOROBENZENE	12.64	114	2958891	25.00	ug/l		0.05
44) CHLOROBENZEN-D5	17.79	82	1959030	25.00	ug/l		0.01
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.52	113	1232085	25.11	ug/l		0.03
Spiked Amount 25.000			Recovery = 100.44%				
39) TOLUENE-d8	15.56	98	3591145	25.13	ug/l		0.04
Spiked Amount 25.000			Recovery = 100.52%				
60) BROMOFLUOROBENZENE	19.57	95	2004616	26.26	ug/l		0.03
Spiked Amount 25.000			Recovery = 105.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.24	85	212318	9.54	ug/l		98
3) Chloromethane	4.54	50	158319	6.41	ug/l		88
4) Vinyl Chloride	4.87	62	120157	6.62	ug/l		99
5) Bromomethane	5.84	94	1831	0.09	ug/l		89
6) Chloroethane	5.76	64	74005	6.64	ug/l		93
8) Trichlorofluoromethane	6.68	101	362744	6.39	ug/l		98
9) Acetone	7.07	43	4620	0.44	ug/l		96
10) 1,1-Dichloroethene	7.53	96	128589	5.99	ug/l	#	85
12) Carbon Disulfide	8.11	76	7051	0.13	ug/l	#	77
13) Freon 113	7.82	101	4847	0.16	ug/l		100
16) Methylene Chloride	7.74	84	140376	5.80	ug/l	#	84
18) trans-1,2-Dichloroethene	8.78	96	152139	6.38	ug/l		99
19) Methyl tert -Butyl Ether (	8.98	73	360450	4.41	ug/l		87
20) 1,1-Dichloroethane	9.16	63	262530	5.53	ug/l		94
21) cis-1,2-Dichloroethene	10.02	96	175976	5.52	ug/l	#	85
22) 2,2-Dichloropropane	10.47	77	179669	4.03	ug/l		98
23) Bromochloromethane	10.26	128	112602	6.25	ug/l	#	69
24) Chloroform	10.35	83	402725	5.81	ug/l		93
25) 1,1,1-Trichloroethane	11.56	97	357735	5.91	ug/l	#	73
26) Carbon Tetrachloride	12.19	119	342990	6.22	ug/l		95
27) 1,2-Dichloroethane	11.38	62	381141	5.90	ug/l		95
28) 1,1-Dichloropropene	11.89	75	272598	5.56	ug/l		98
31) 2-Butanone	9.83	43	17115	0.81	ug/l	#	57
32) Benzene	12.26	78	721689	5.38	ug/l		99
33) Trichloroethene (TCE)	13.31	132	234285	5.45	ug/l	#	67
34) 1,2-Dichloropropane	13.25	63	185770	5.02	ug/l		100
35) Dibromomethane	13.19	93	170728	5.48	ug/l	#	61
36) Bromodichloromethane	13.40	83	320296	4.90	ug/l		96
38) cis-1,3-Dichloropropene	14.43	75	238955	4.10	ug/l		97
41) trans-1,3-Dichloropropene	15.12	75	212264	3.71	ug/l		97
42) Toluene	15.67	92	460480	5.14	ug/l		97
43) 1,1,2-Trichloroethane	15.37	97	217674	5.36	ug/l		89
45) Tetrachloroethene (PCE)	16.82	164	235362	5.57	ug/l		97

49)	1,2-Dibromoethane(EDB)	16.56	107	246509	5.26	ug/L	94
50)	Chlorobenzene	17.85	112	571297	5.07	ug/l	96
51)	1,1,1,2-Tetrachloroethane	17.72	131	268741	5.32	ug/l	97
52)	Ethylbenzene	18.13	106	227406	4.07	ug/l	93
53)	m,p-Xylenes	18.41	106	929458	12.74	ug/l	97
54)	o-Xylene	18.99	91	1085675	6.03	ug/l	97
55)	Bromoform	18.58	173	212370	4.83	ug/l	91
57)	Styrene	18.89	104	17456	0.14	ug/l	78
58)	Isopropylbenzene	19.51	105	1256426	6.23	ug/l	99
59)	Bromobenzene	19.89	156	340541	5.94	ug/l	100
61)	n-Propylbenzene	20.15	91	1607659	6.29	ug/l	97
62)	2-Chlorotoluene	20.30	91	987100	6.33	ug/l	94
63)	1,2,3-Trichloropropane	19.19	75	299265	5.62	ug/l	93
64)	4-Chlorotoluene	20.42	91	1046436	6.29	ug/l	97
65)	1,1,2,2-Tetrachloroethane	18.98	83	367568	6.22	ug/l	93
66)	1,2,4-Trimethylbenzene	21.15	105	1077866	5.85	ug/l	95
67)	tert-Butylbenzene	21.00	119	960965	5.92	ug/l	94
68)	1,3,5-Trimethylbenzene	20.56	105	1115016	6.15	ug/l	99
69)	sec-Butylbenzene	21.32	105	1436748	6.41	ug/l	96
70)	1,3-Dichlorobenzene	21.45	146	671407	6.30	ug/l	93
71)	p-Isopropyltoluene	21.58	119	1164273	6.27	ug/l	100
72)	1,4-Dichlorobenzene	21.55	146	697018	6.44	ug/l	99
73)	1,2-Dichlorobenzene	22.10	146	614319	6.10	ug/l	99
74)	n-Butylbenzene	22.20	91	1127418	6.43	ug/l	95
75)	1,2-Dibromo-3-chloropropan	22.85	75	63473	4.56	ug/l #	67
76)	1,2,4-Trichlorobenzene	25.28	180	401044	5.31	ug/l	93
77)	Hexachlorobutadiene	25.88	225	283011	6.55	ug/l	100
78)	Naphthalene	25.82	128	976675	5.62	ug/l	100
79)	1,2,3-Trichlorobenzene	26.24	180	402169	5.71	ug/l	99

(#) = qualifier out of range (m) = manual integration
1011017.D 091598.M Sat Mar 23 12:23:52 2002

Data File : C:\HPCHEM\1\DATA\101198\1011017.D Vial: 18
Acq On : 12 Oct 98 4:18 am Operator:
Sample : Sample-3 MS Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 21:00 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\101198\1011018.D Vial: 19
Acq On : 12 Oct 98 4:55 am Operator:
Sample : Sample-3 MSD Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 21:00 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) PENTAFLUOROBENZENE	11.18	99	882178	25.00	ug/l		0.05
30) 1,4-DIFLUOROBENZENE	12.65	114	2554703	25.00	ug/l		0.06
44) CHLOROBENZEN-D5	17.80	82	1826598	25.00	ug/l		0.03
System Monitoring Compounds							
29) DIBROMOFLUOROMETHANE	10.54	113	1124399	27.81	ug/l		0.05
Spiked Amount 25.000			Recovery = 111.24%				
39) TOLUENE-d8	15.57	98	3313940	26.86	ug/l		0.05
Spiked Amount 25.000			Recovery = 107.44%				
60) BROMOFLUOROBENZENE	19.58	95	1904732	26.76	ug/l		0.04
Spiked Amount 25.000			Recovery = 107.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.24	85	220521	12.02	ug/l		99
3) Chloromethane	4.53	50	158362	7.78	ug/l		80
4) Vinyl Chloride	4.85	62	112087	7.50	ug/l		91
5) Bromomethane	5.52	94	113652	6.79	ug/l		84
6) Chloroethane	5.75	64	69431	7.56	ug/l		97
8) Trichlorofluoromethane	6.68	101	360058	7.69	ug/l		94
9) Acetone	6.95	43	48716	5.60	ug/l	#	82
10) 1,1-Dichloroethene	7.53	96	119325	6.74	ug/l	#	80
18) trans-1,2-Dichloroethene	8.79	96	146446	7.45	ug/l		99
19) Methyl tert -Butyl Ether (	8.97	73	351222	5.22	ug/l		90
20) 1,1-Dichloroethane	9.17	63	257135	6.57	ug/l		94
21) cis-1,2-Dichloroethene	10.03	96	178889	6.81	ug/l		90
22) 2,2-Dichloropropane	10.48	77	156091	4.25	ug/l		98
23) Bromochloromethane	10.26	128	119469	8.04	ug/l	#	81
24) Chloroform	10.34	83	385080	6.74	ug/l		95
25) 1,1,1-Trichloroethane	11.56	97	313028	6.28	ug/l	#	66
26) Carbon Tetrachloride	12.20	119	310881	6.84	ug/l		97
27) 1,2-Dichloroethane	11.39	62	356065	6.69	ug/l		94
28) 1,1-Dichloropropene	11.88	75	256019	6.34	ug/l		99
31) 2-Butanone	9.84	43	10425	0.57	ug/l	#	57
32) Benzene	12.26	78	660069	5.70	ug/l		99
33) Trichloroethene (TCE)	13.32	132	207903	5.60	ug/l	#	65
34) 1,2-Dichloropropane	13.26	63	182181	5.71	ug/l		96
35) Dibromomethane	13.19	93	165368	6.15	ug/l	#	32
36) Bromodichloromethane	13.40	83	294922	5.23	ug/l		95
38) cis-1,3-Dichloropropene	14.43	75	204393	4.06	ug/l		98
41) trans-1,3-Dichloropropene	15.12	75	194805	3.94	ug/l		94
42) Toluene	15.69	92	439837	5.68	ug/l		99

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

Data File : C:\HPCHEM\1\DATA\101198\1011018.D Vial: 19
Acq On : 12 Oct 98 4:55 am Operator:
Sample : Sample-3 MSD Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 21:00 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration
DataAcq Meth : 091598

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,1,2-Trichloroethane	15.37	97	208961	5.96	ug/l	91
45)	Tetrachloroethene (PCE)	16.83	164	211201	5.36	ug/l	95
46)	1,3-Dichloropropane	15.74	76	423695	6.33	ug/l	97
47)	Dibromochloromethane	16.17	129	251282	4.62	ug/l	100
49)	1,2-Dibromoethane(EDB)	16.56	107	222995	5.10	ug/L	90
50)	Chlorobenzene	17.85	112	556707	5.30	ug/l	96
51)	1,1,1,2-Tetrachloroethane	17.72	131	244720	5.20	ug/l	94
52)	Ethylbenzene	18.13	106	222789	4.27	ug/l	97
53)	m,p-Xylenes	18.42	106	877566	12.90	ug/l	98
54)	o-Xylene	18.99	91	1018964	6.07	ug/l	99
55)	Bromoform	18.59	173	197427	4.81	ug/l	92
57)	Styrene	18.90	104	15273	0.14	ug/l	86
58)	Isopropylbenzene	19.51	105	1212846	6.45	ug/l	98
59)	Bromobenzene	19.90	156	326695	6.11	ug/l	93
61)	n-Propylbenzene	20.15	91	1520916	6.38	ug/l	97
62)	2-Chlorotoluene	20.31	91	874065	6.01	ug/l	88
63)	1,2,3-Trichloropropane	19.19	75	304698	6.13	ug/l	96
64)	4-Chlorotoluene	20.42	91	992326	6.40	ug/l	97
65)	1,1,2,2-Tetrachloroethane	18.98	83	351114	6.37	ug/l	92
66)	1,2,4-Trimethylbenzene	21.15	105	1022526	5.95	ug/l	98
67)	tert-Butylbenzene	21.00	119	919504	6.08	ug/l	95
68)	1,3,5-Trimethylbenzene	20.57	105	1029106	6.09	ug/l	100
69)	sec-Butylbenzene	21.32	105	1343021	6.43	ug/l	96
70)	1,3-Dichlorobenzene	21.45	146	636057	6.41	ug/l	93
71)	p-Isopropyltoluene	21.58	119	1082964	6.25	ug/l	100
72)	1,4-Dichlorobenzene	21.55	146	675760	6.70	ug/l	98
73)	1,2-Dichlorobenzene	22.10	146	571787	6.09	ug/l	98
74)	n-Butylbenzene	22.20	91	1016305	6.21	ug/l	95
75)	1,2-Dibromo-3-chloropropan	22.85	75	64598	4.98	ug/l	81
76)	1,2,4-Trichlorobenzene	25.28	180	386072	5.48	ug/l	91
77)	Hexachlorobutadiene	25.88	225	256204	6.36	ug/l	100
78)	Naphthalene	25.82	128	986535	6.09	ug/l	100
79)	1,2,3-Trichlorobenzene	26.25	180	390980	5.96	ug/l	96

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

Data File : C:\HPCHEM\1\DATA\101198\1011018.D Vial: 19
Acq On : 12 Oct 98 4:55 am Operator:
Sample : Sample-3 MSD Inst : MS03
Misc : Multiplr: 1.00
MS Integration Params: NA
Quant Time: Mar 22 21:00 19102 Quant Results File: QUANT.RES

Method : C:\HPCHEM\1\METHODS\091598.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 22 21:46:53 2002
Response via : Initial Calibration