

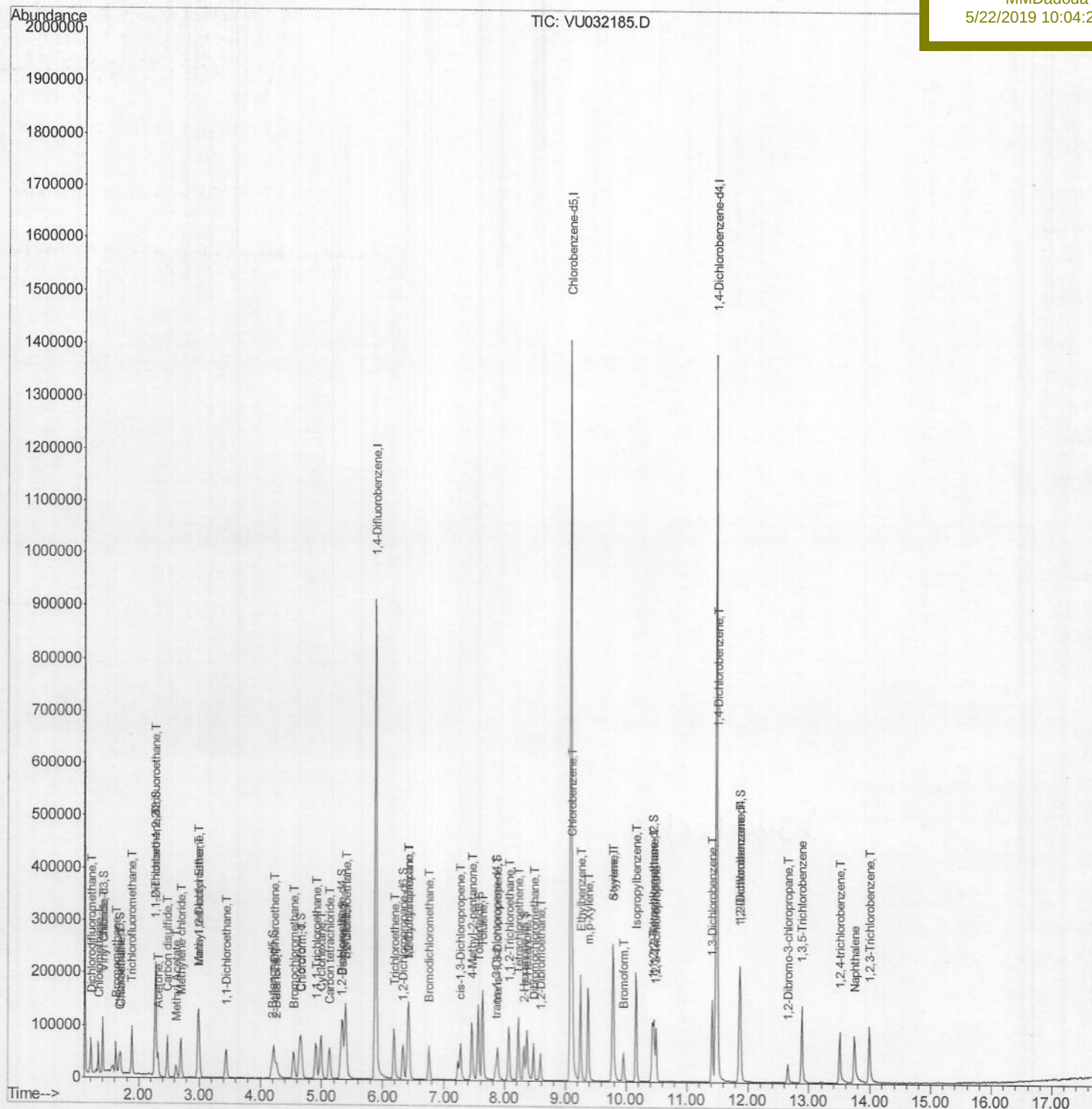
ALS Vial : 3 Sample Multiplier: 1

Response via : Initial Calibration

VSTD00551

APPROVED

5/22/2019 10:04:26 AM



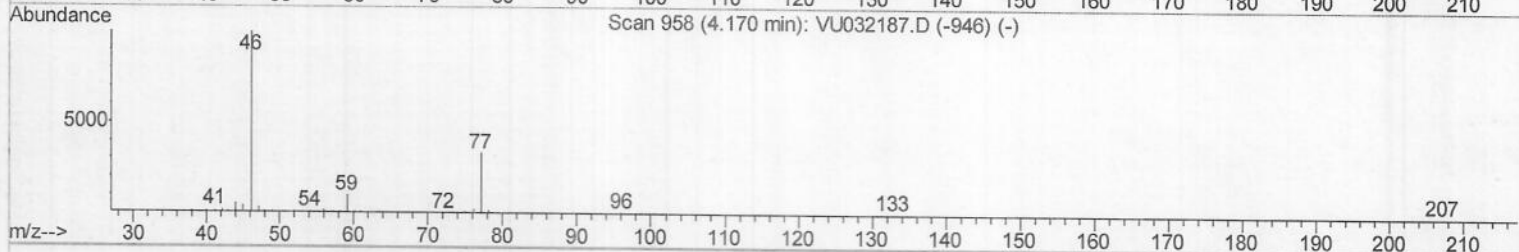
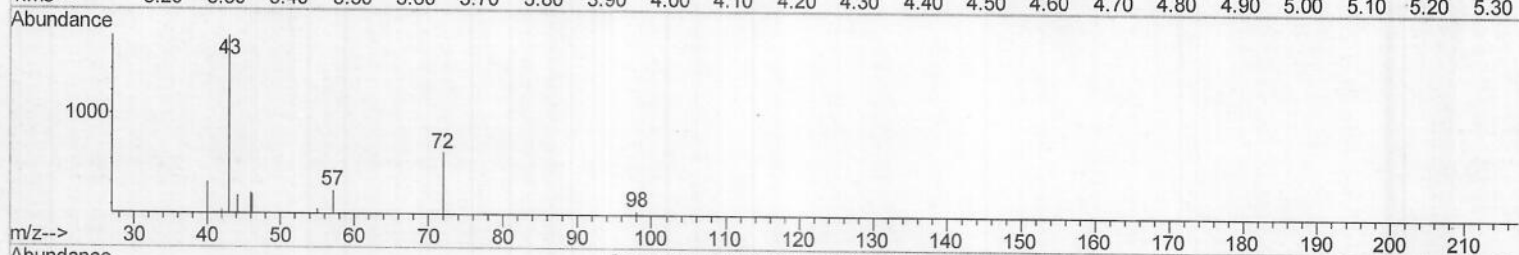
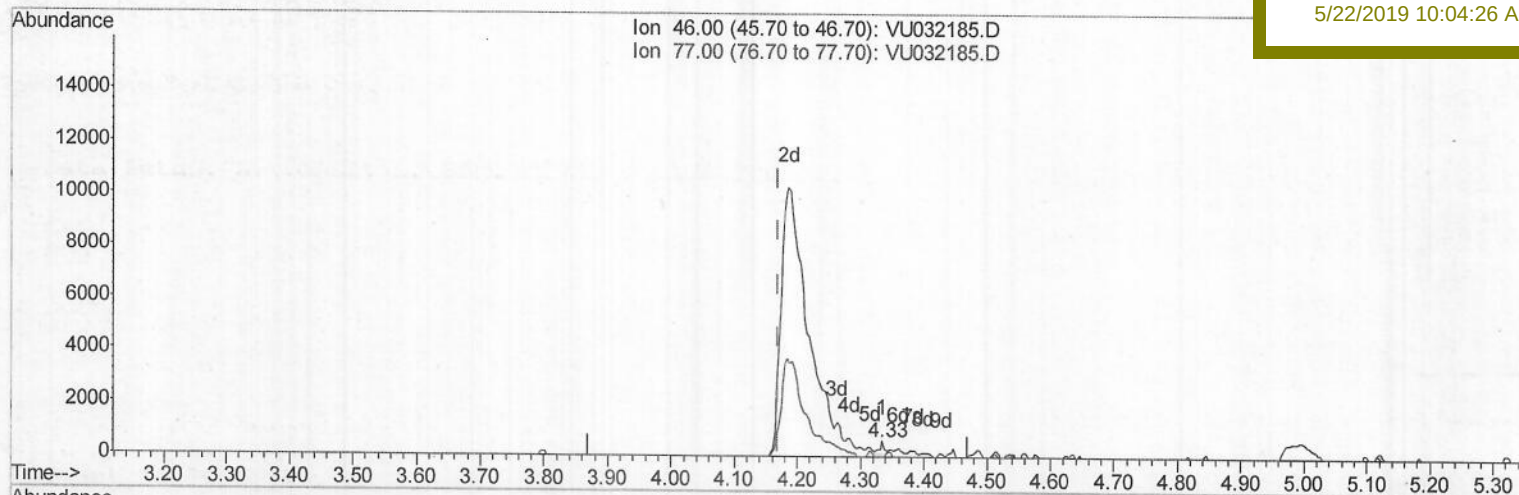
Data File : VU032185.D
Acq On : 21 May 2019 09:21
Operator : JC/SP
Sample : VSTD00551
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 01:37:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sample Id :
VSTD00551

Manual Integrations
APPROVED

MMDadoda
5/22/2019 10:04:26 AM



TIC: VU032185.D

(21) 2-Butanone-d5 (S)

4.334min (+0.164) 0.05ug/L

response 254

Ion	Exp%	Act%
46.00	100	100
77.00	32.90	37.40
0.00	0.00	0.00
0.00	0.00	0.00

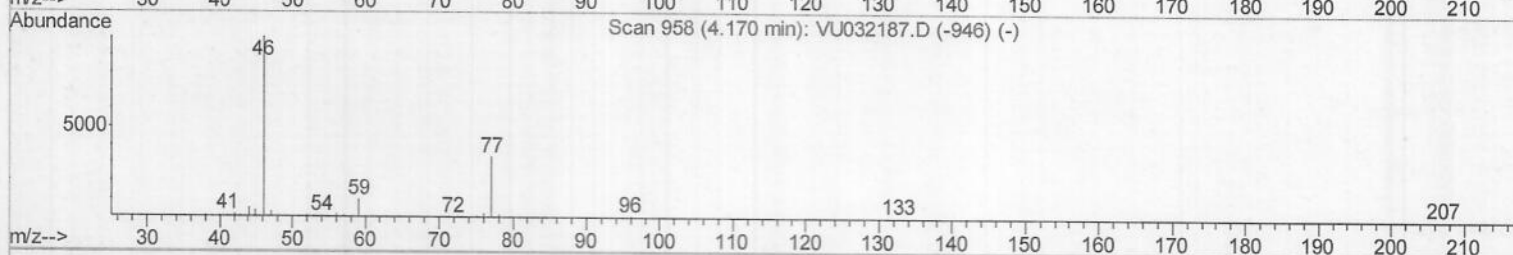
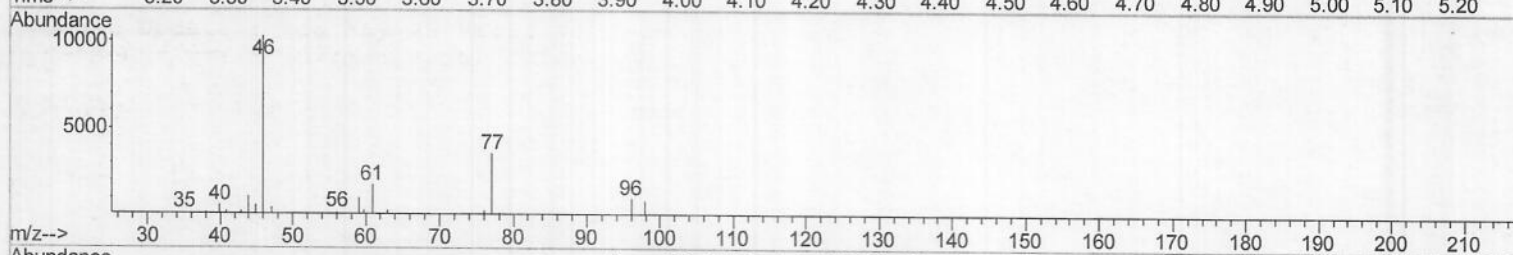
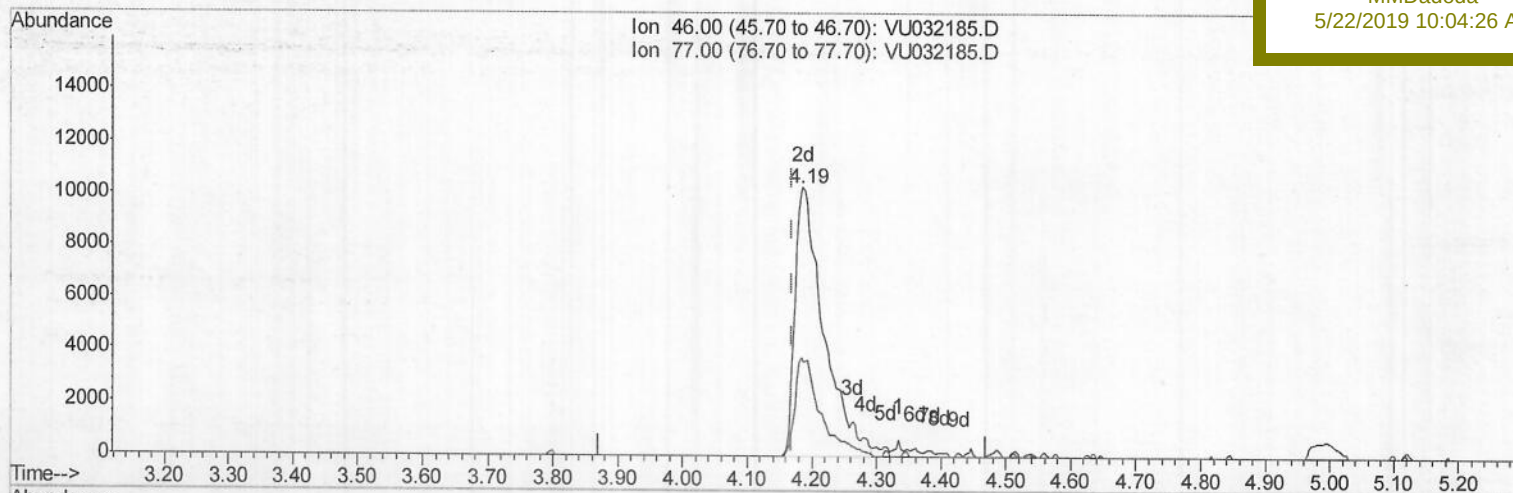
Data File : VU032185.D
Acq On : 21 May 2019 09:21
Operator : JC/SP
Sample : VSTD00551
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 01:37:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sample Id :
VSTD00551

Manual Integrations
APPROVED

MMDadoda
5/22/2019 10:04:26 AM



TIC: VU032185.D

(21) 2-Butanone-d5 (S)

4.186min (+0.016) 6.50ug/L m

MD 05/23/19

response 31509

Ion	Exp%	Act%
46.00	100	100
77.00	32.90	0.30#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : VU032185.D
Acq On : 21 May 2019 09:21
Operator : JC/SP
Sample : VSTD00551
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 01:42:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sample ID :
VSTD00551

Manual Integrations
APPROVED

MMDadoda
5/22/2019 10:04:26 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	849100	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	864100	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	387157	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	30808	4.34	ug/L	0.00
7) Chloroethane-d5	1.67	69	26941	4.66	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	59808	4.66	ug/L	0.00
21) 2-Butanone-d5	4.19	46	31509m	6.50	ug/L	0.02
24) Chloroform-d	4.64	84	60288	4.96	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	35213	4.63	ug/L	0.00
32) Benzene-d6	5.34	84	118329	4.83	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	34406	4.34	ug/L	0.00
41) Toluene-d8	7.56	98	108609	4.90	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	16087	4.53	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	23183	7.07	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	52192	4.40	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	44773	5.54	ug/L	0.00

MD 05/23/19

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	40098	5.238	ug/L	98
3) Chloromethane	1.33	50	35871	4.354	ug/L	100
5) Vinyl chloride	1.40	62	39649	4.545	ug/L	92
6) Bromomethane	1.61	94	29008	6.071	ug/L	93
8) Chloroethane	1.69	64	23881	4.613	ug/L	99
9) Trichlorofluoromethane	1.88	101	55737	5.452	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	34076	5.465	ug/L	99
12) 1,1-Dichloroethene	2.28	96	32020	5.182	ug/L	91
13) Acetone	2.32	43	43251	8.618	ug/L	98
14) Carbon disulfide	2.47	76	99008	5.045	ug/L	98
15) Methyl Acetate	2.61	43	27595	3.652	ug/L	94
16) Methylene chloride	2.69	84	38046	5.107	ug/L	93
17) trans-1,2-Dichloroethene	2.98	96	32930	5.123	ug/L	90
18) Methyl tert-butyl Ether	3.00	73	90316	4.636	ug/L	99
19) 1,1-Dichloroethane	3.44	63	56682	4.610	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	35863	5.064	ug/L	93
22) 2-Butanone	4.27	43	38453	6.729	ug/L	91
23) Bromochloromethane	4.54	128	20192	5.693	ug/L	96
25) Chloroform	4.67	83	62224	5.021	ug/L	98
27) 1,2-Dichloroethane	5.40	62	44545	4.700	ug/L	96
29) Cyclohexane	4.98	56	40111	3.977	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	51834	5.227	ug/L	99
31) Carbon tetrachloride	5.13	117	46050	5.501	ug/L	100
33) Benzene	5.39	78	132550	4.813	ug/L	100
34) Trichloroethene	6.19	95	37178	5.366	ug/L	96
35) Methylcyclohexane	6.41	83	49797	4.720	ug/L	95
37) 1,2-Dichloropropane	6.43	63	33468	4.596	ug/L	98
38) Bromodichloromethane	6.75	83	44882	4.914	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	45269	4.319	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	64608	6.724	ug/L	96

Data File : VU032185.D
Acq On : 21 May 2019 09:21
Operator : JC/SP
Sample : VSTD00551
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 01:42:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sample ID :
VSTD00551

Manual Integrations
APPROVED

MMDadoda
5/22/2019 10:04:26 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
42) Toluene	7.63	91	137764	4.819	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	42004	4.550	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	35922	5.202	ug/L	96
46) Tetrachloroethene	8.22	164	29147	5.769	ug/L	98
48) 2-Hexanone	8.36	43	59117	7.565	ug/L #	87
49) Dibromochloromethane	8.47	129	35509	5.056	ug/L	99
50) 1,2-Dibromoethane	8.58	107	35654	4.874	ug/L	94
51) Chlorobenzene	9.12	112	101197	5.502	ug/L	97
52) Ethylbenzene	9.25	91	144643	4.719	ug/L	99
53) m,p-Xylene	9.37	106	57600	5.098	ug/L	96
54) o-xylene	9.78	106	53907	4.809	ug/L	92
55) Styrene	9.79	104	88177	4.592	ug/L	99
56) Isopropylbenzene	10.16	105	142060	4.955	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	57000	4.641	ug/L	95
59) 1,2,3-Trichloropropane	10.49	75	41967	4.360	ug/L	97
61) Bromoform	9.95	173	26618	5.155	ug/L	92
62) 1,3-Dichlorobenzene	11.41	146	71899	5.681	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	78671	5.903	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	76626	5.719	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	11171	4.477	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	52841	5.755	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	38305	5.423	ug/L	98
69) Naphthalene	13.74	128	102957	4.472	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	47596	6.180	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed