Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

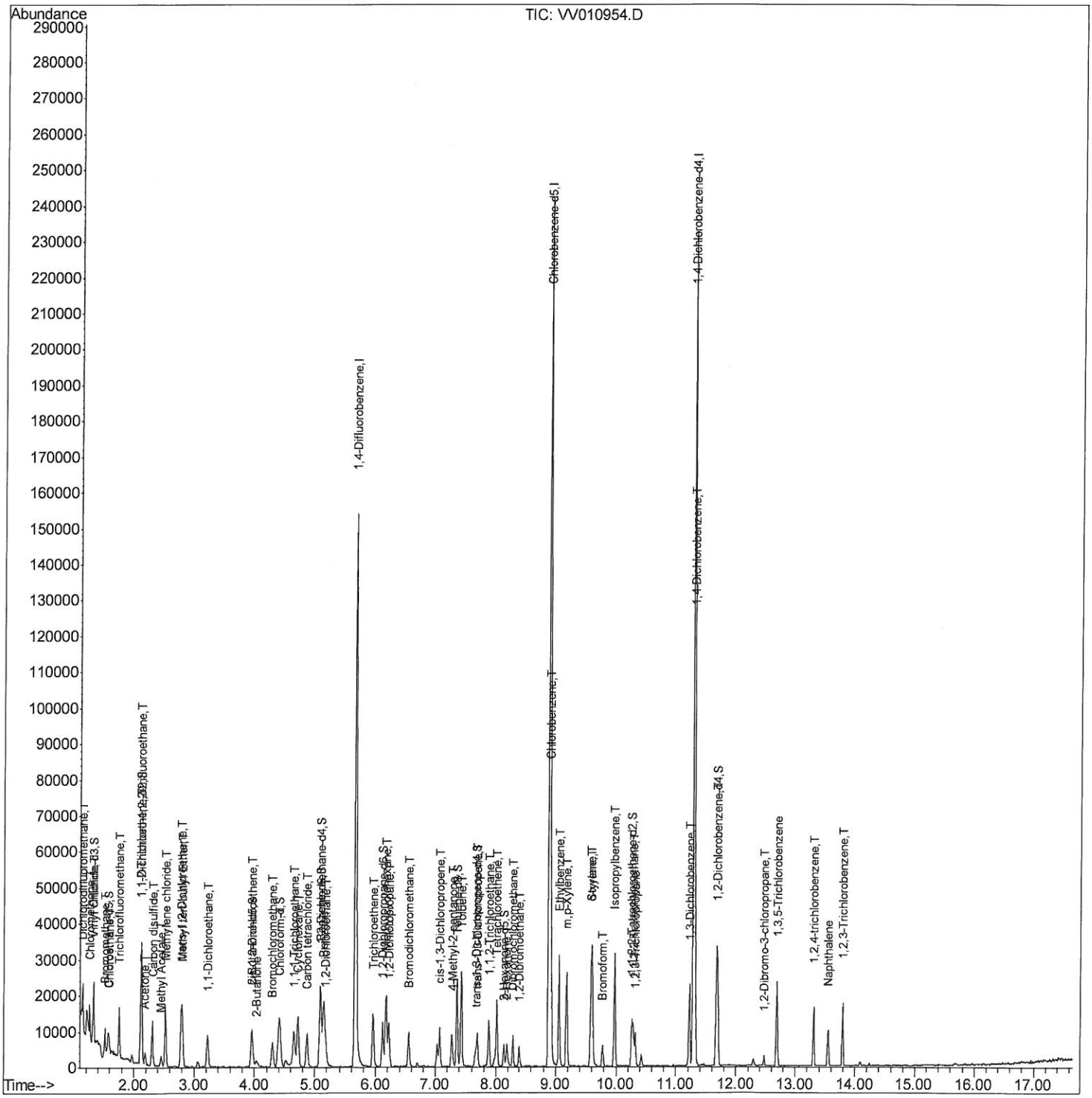
Quantitation Report (QT Reviewed)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 14:04:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (Qedit)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 13:54:26 2019
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Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Instrument :
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ClientSampleId :
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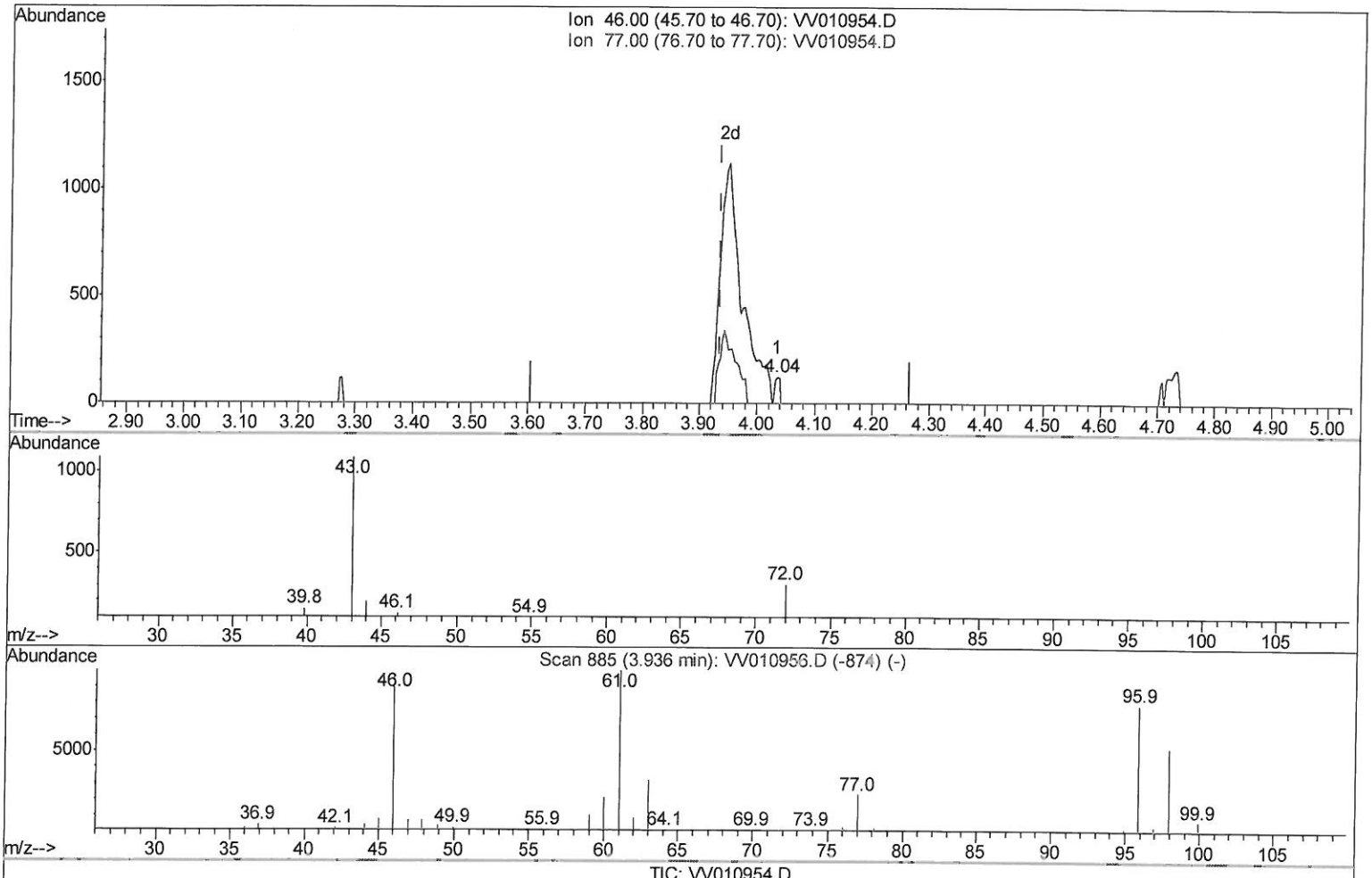
Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



TIC: VV010954.D

(20) 2-Butanone-d5 (S)

4.036min (+0.100) 0.12ug/L

response 68

Ion	Exp%	Act%
46.00	100	100
77.00	25.00	32.35
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (Qedit)

Data File : VV010954.D
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Operator : SY/MD
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Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

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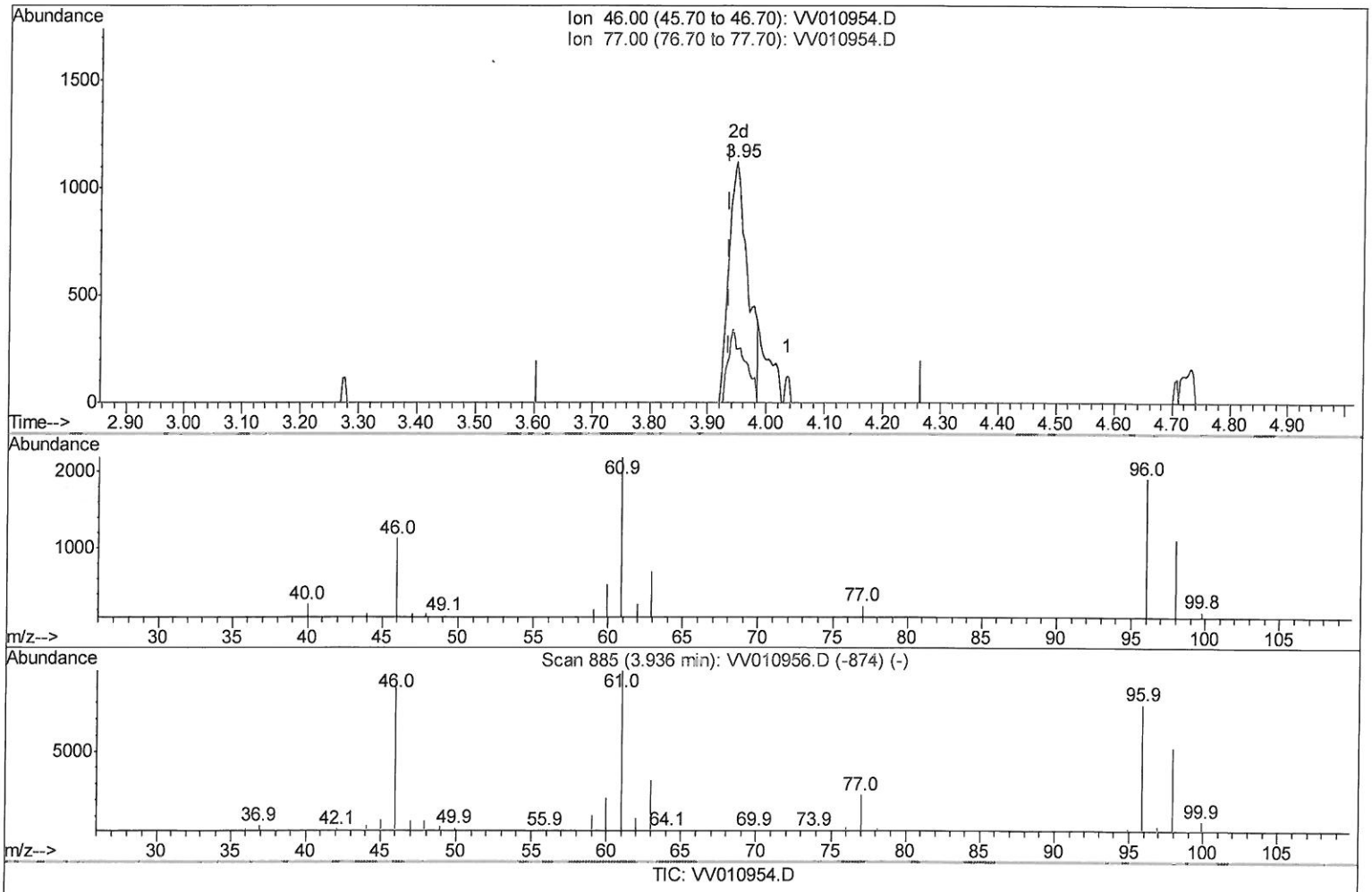
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



TIC: VV010954.D

(20) 2-Butanone-d5 (S)

3.949min (+0.013) 4.43ug/L m 05/22/19 SY

response 2489

Ion	Exp%	Act%
46.00	100	100
77.00	25.00	0.88#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

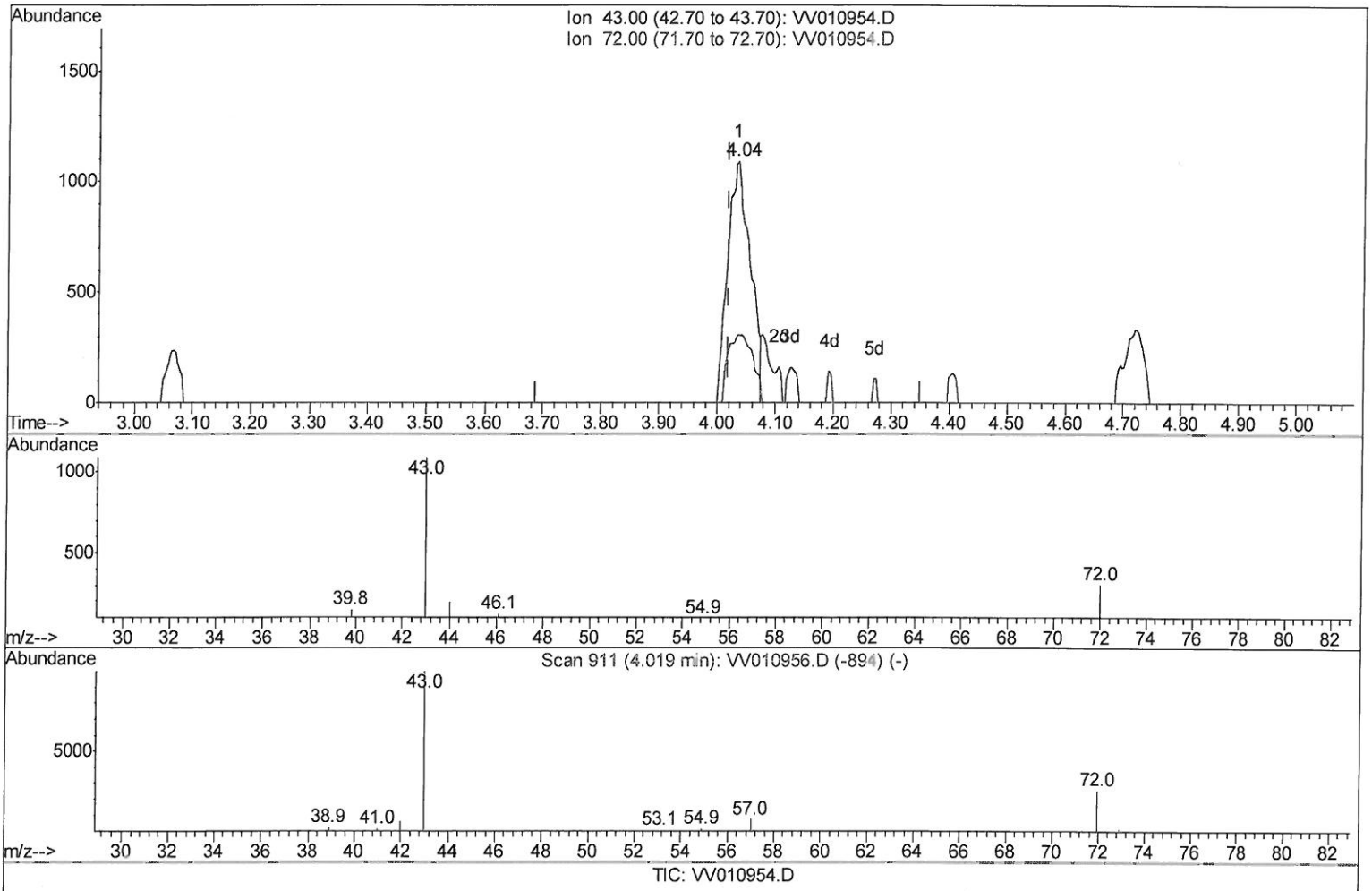
Quantitation Report (Qedit)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 13:54:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



TIC: VV010954.D

(21) 2-Butanone

4.036min (+0.016) 3.97ug/L

response 2934

Ion	Exp%	Act%
43.00	100	100
72.00	26.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

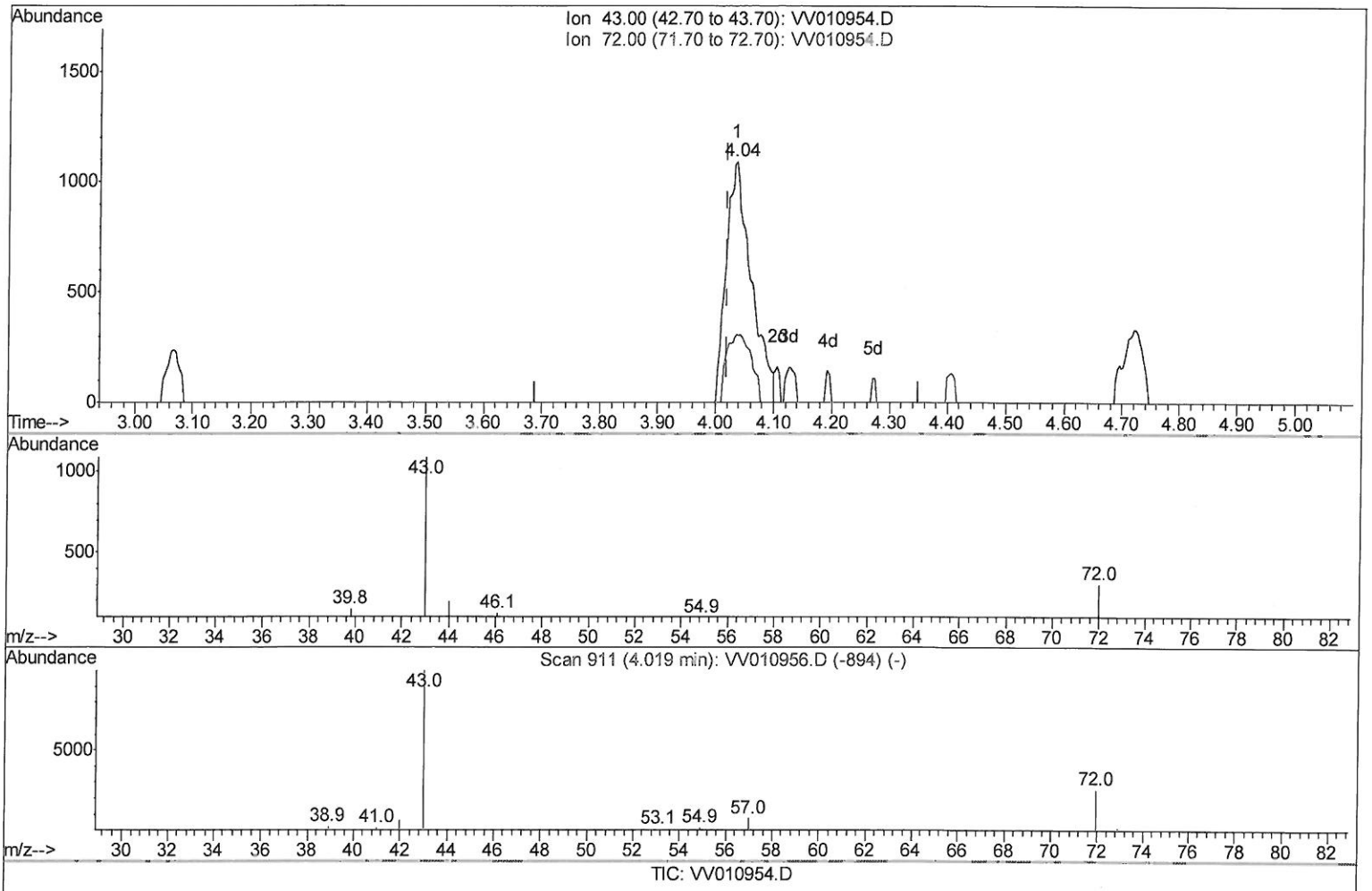
Quantitation Report (Qedit)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 13:54:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



TIC: VV010954.D

(21) 2-Butanone

4.036min (+0.016) 4.40ug/L m 05/22/19 SY

response 3252

Ion	Exp%	Act%
43.00	100	100
72.00	26.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (Qedit)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

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Quant Title : VOC Analysis
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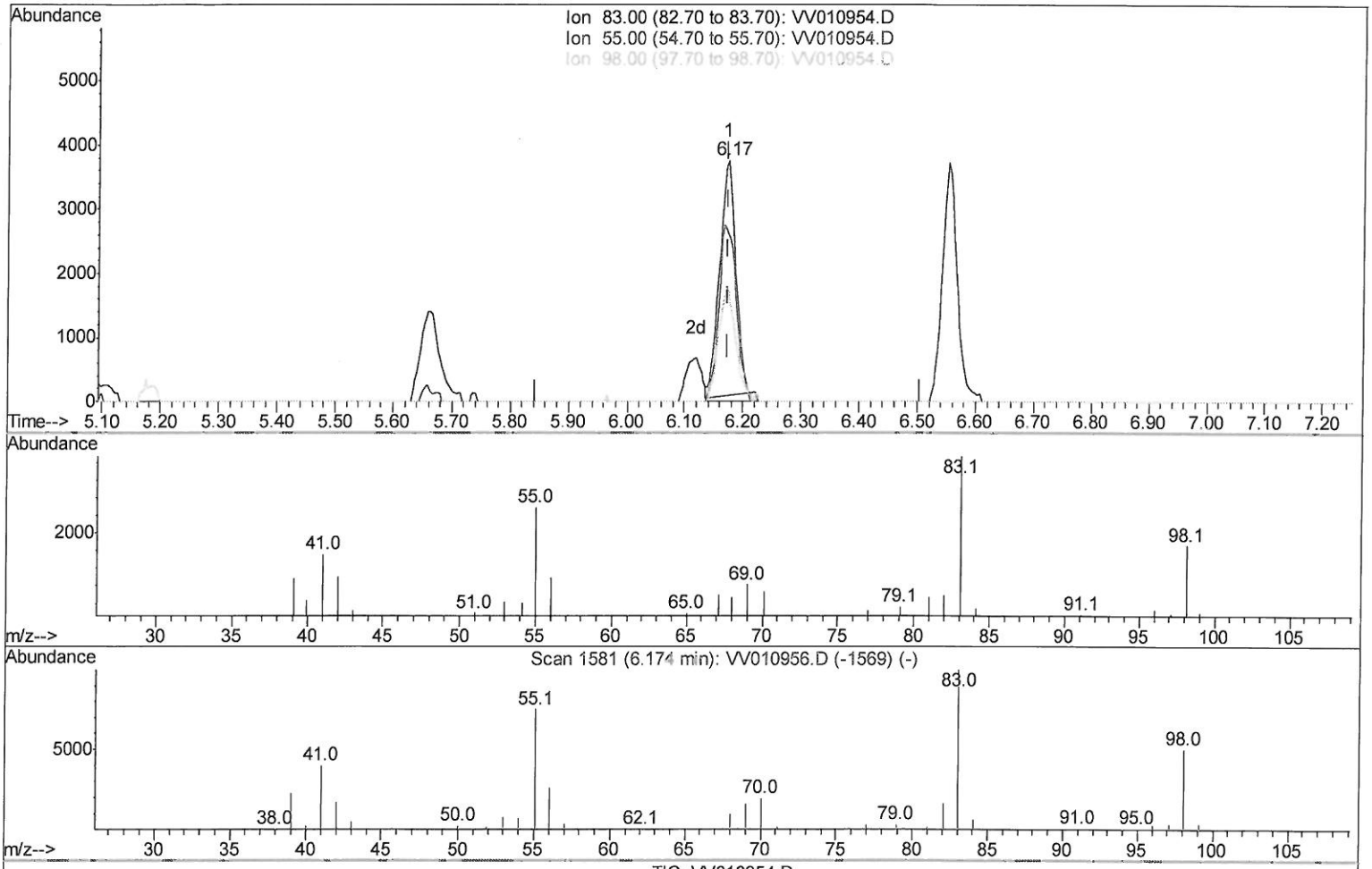
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



TIC: VV010954.D

(36) Methylcyclohexane (T)

6.174min (+0.000) 2.47ug/L

response 7005

Ion	Exp%	Act%
83.00	100	100
55.00	71.20	82.23
98.00	45.30	52.19
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (Qedit)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 13:54:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
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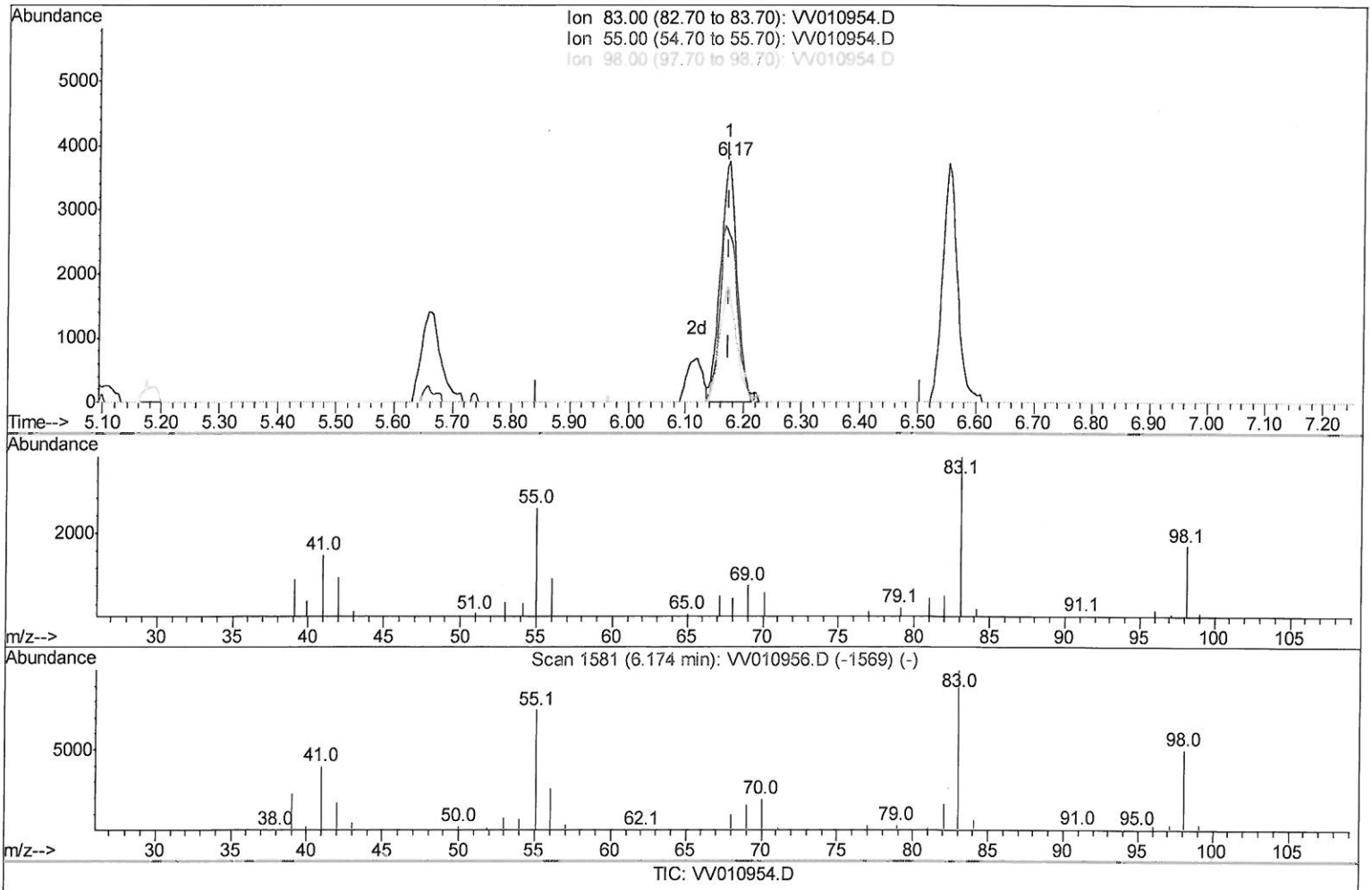
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



TIC: VV010954.D

(36) Methylcyclohexane (T)

6.174min (+0.000) 2.64ug/L m 05/22/19 SY

response 7490

Ion	Exp%	Act%
83.00	100	100
55.00	71.20	76.90
98.00	45.30	48.81
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

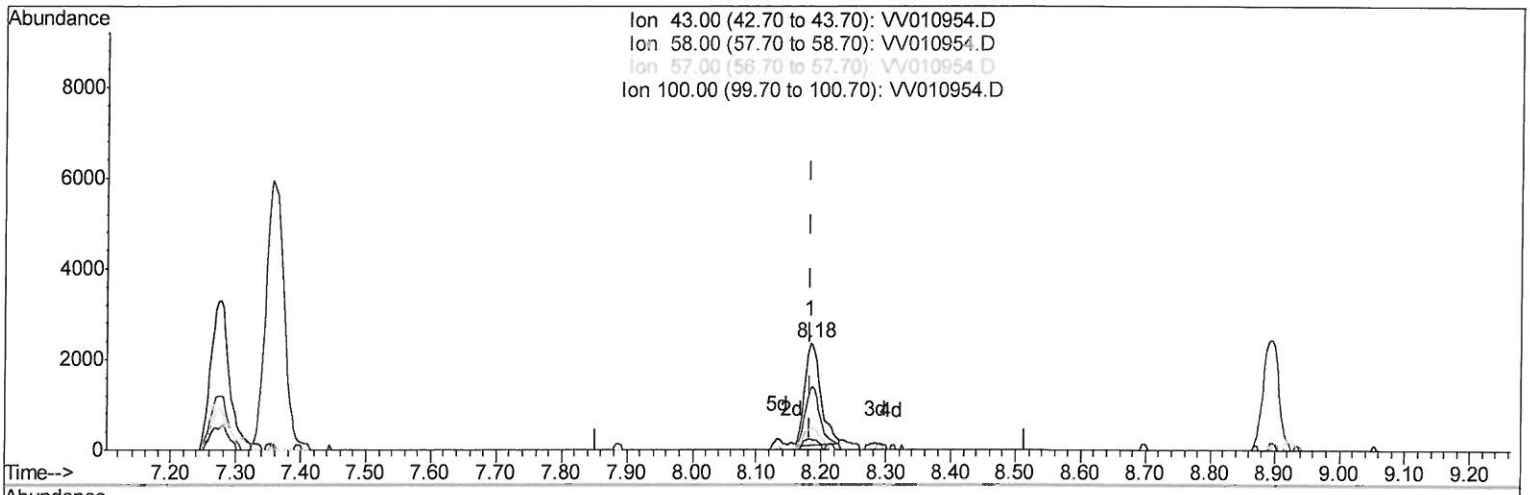
Quantitation Report (Qedit)

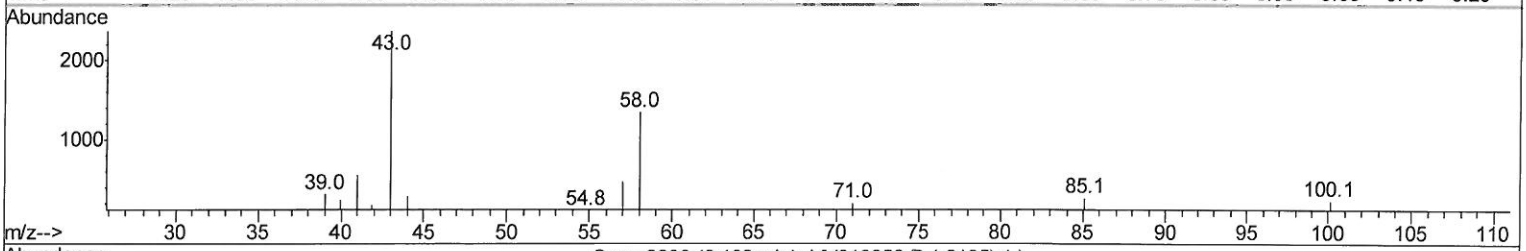
Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

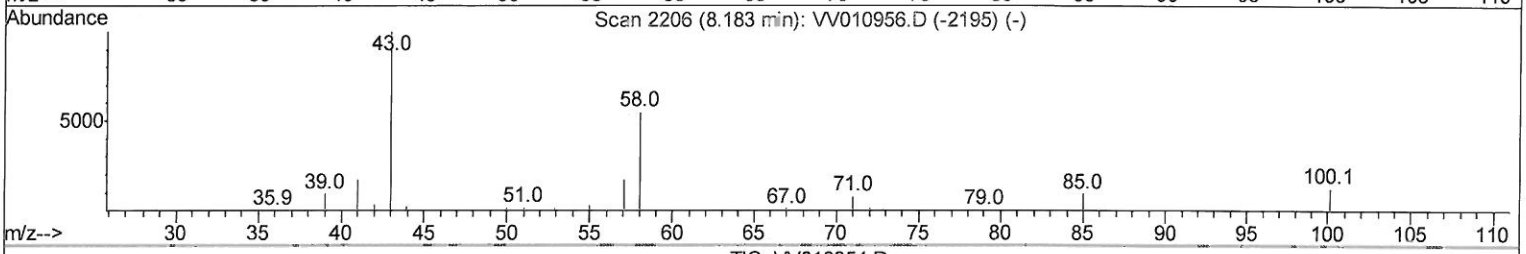
Quant Time: May 20 13:54:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM







TIC: VV010954.D

(49) 2-Hexanone (T)

8.183min (+0.000) 3.44ug/L

response 3844

Ion	Exp%	Act%
43.00	100	100
58.00	57.50	63.22
57.00	18.10	22.53#
100.00	12.90	9.68#

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

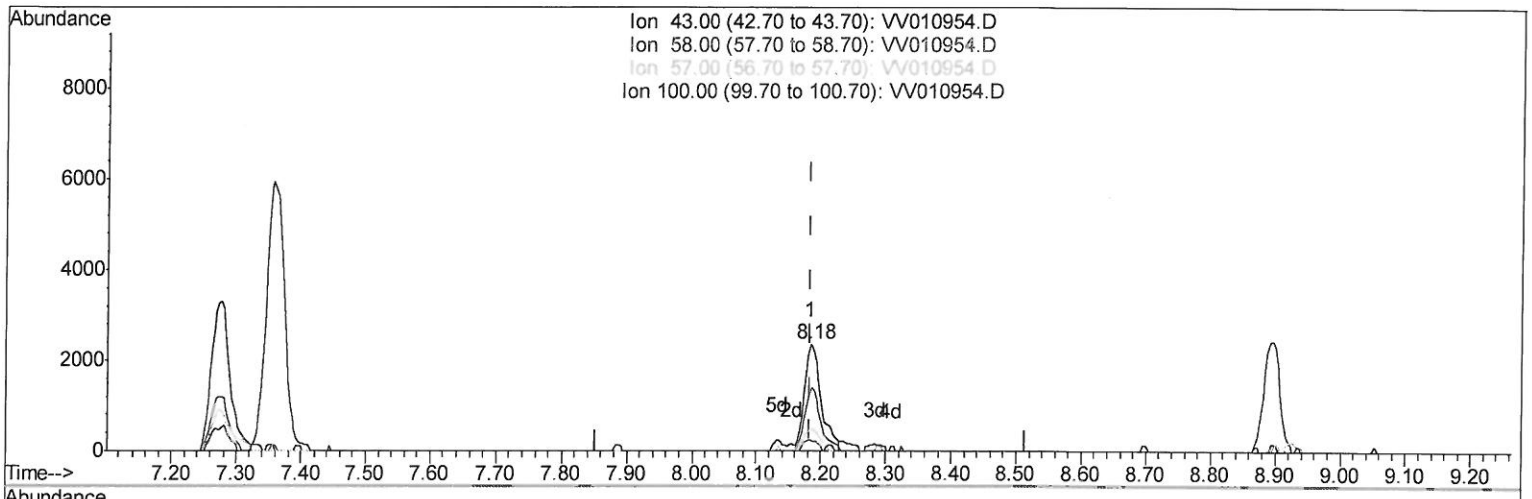
Quantitation Report (Qedit)

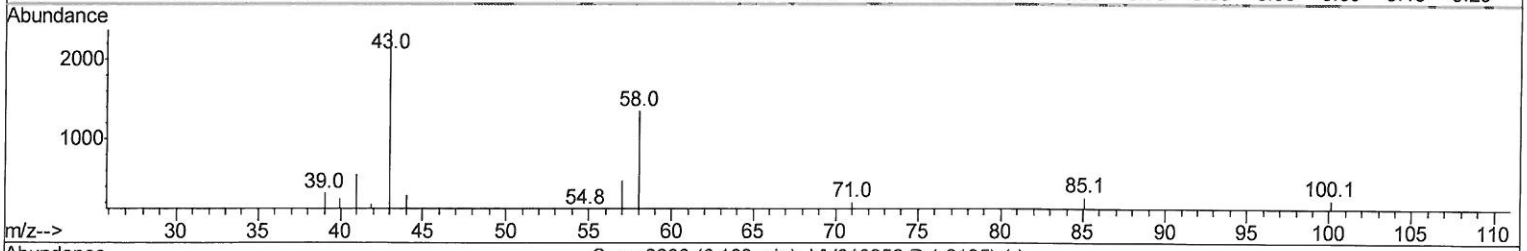
Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

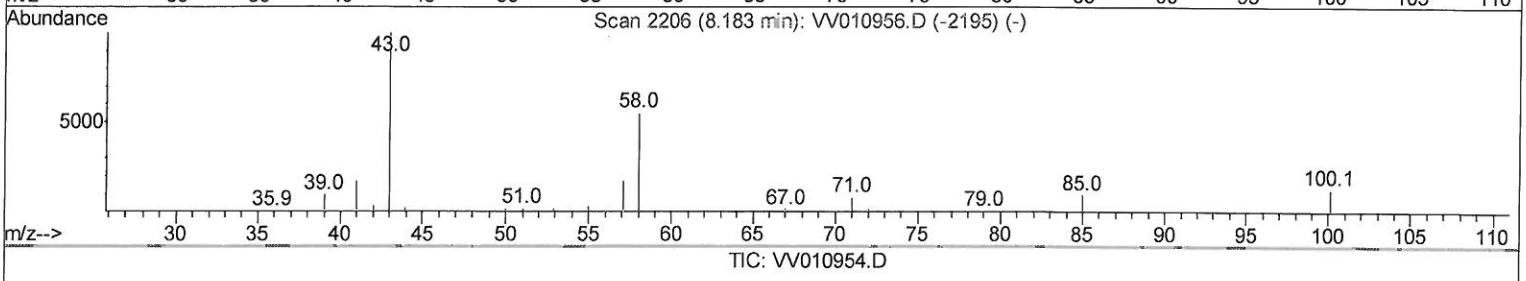
Quant Time: May 20 13:54:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM







TIC: VV010954.D

(49) 2-Hexanone (T)

8.183min (+0.000) 3.83ug/L m > 5/22/19 Sy

response 4276

Ion	Exp%	Act%
43.00	100	100
58.00	57.50	56.83
57.00	18.10	20.25
100.00	12.90	8.70#

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (Qedit)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 13:54:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
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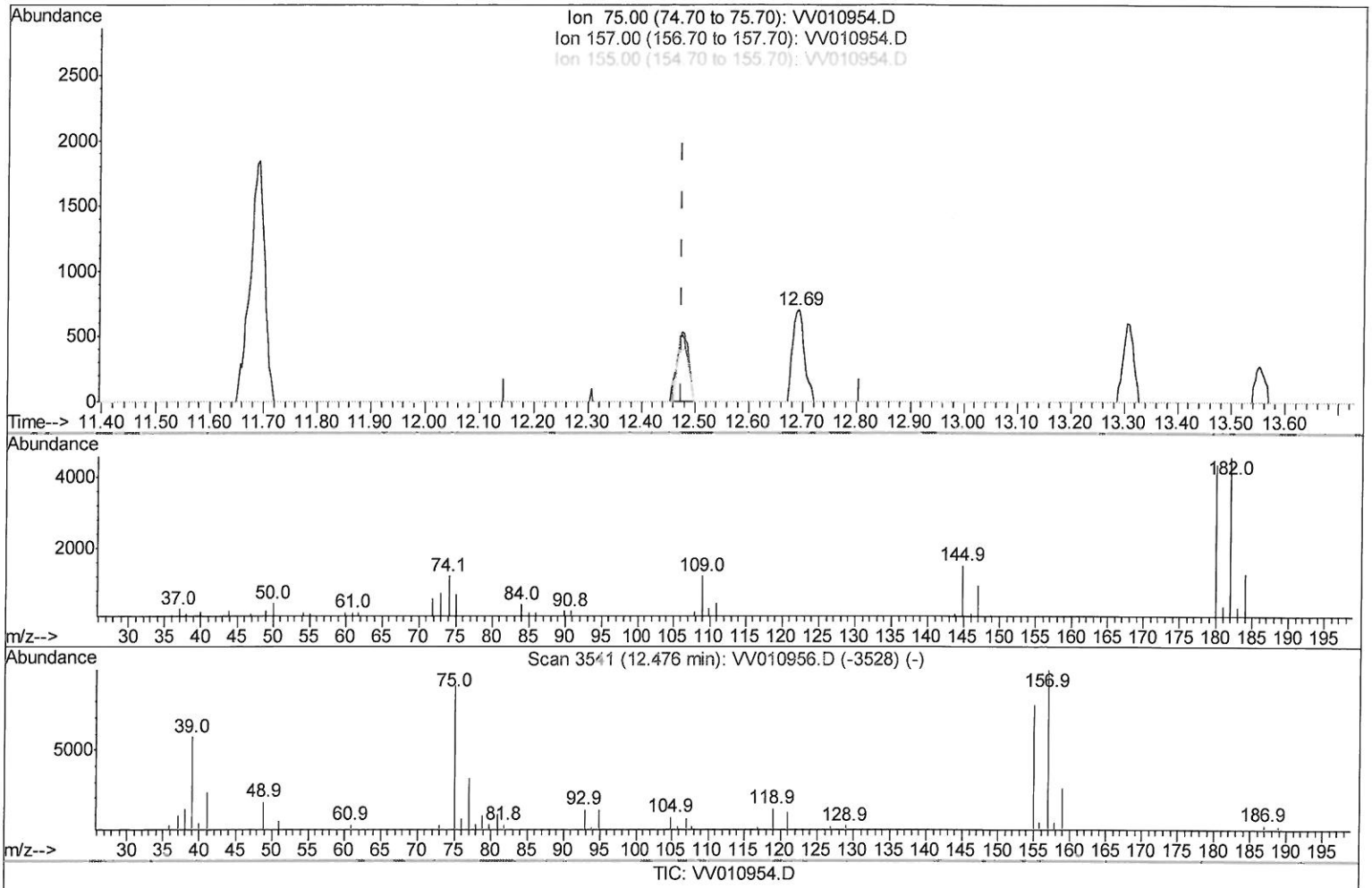
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



(66) 1,2-Dibromo-3-chloropropane (T)

12.691min (+0.216) 3.41ug/L

response 1076

Ion	Exp%	Act%
75.00	100	100
157.00	108.70	0.00#
155.00	84.80	0.00#
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (Qedit)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
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Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 13:54:26 2019
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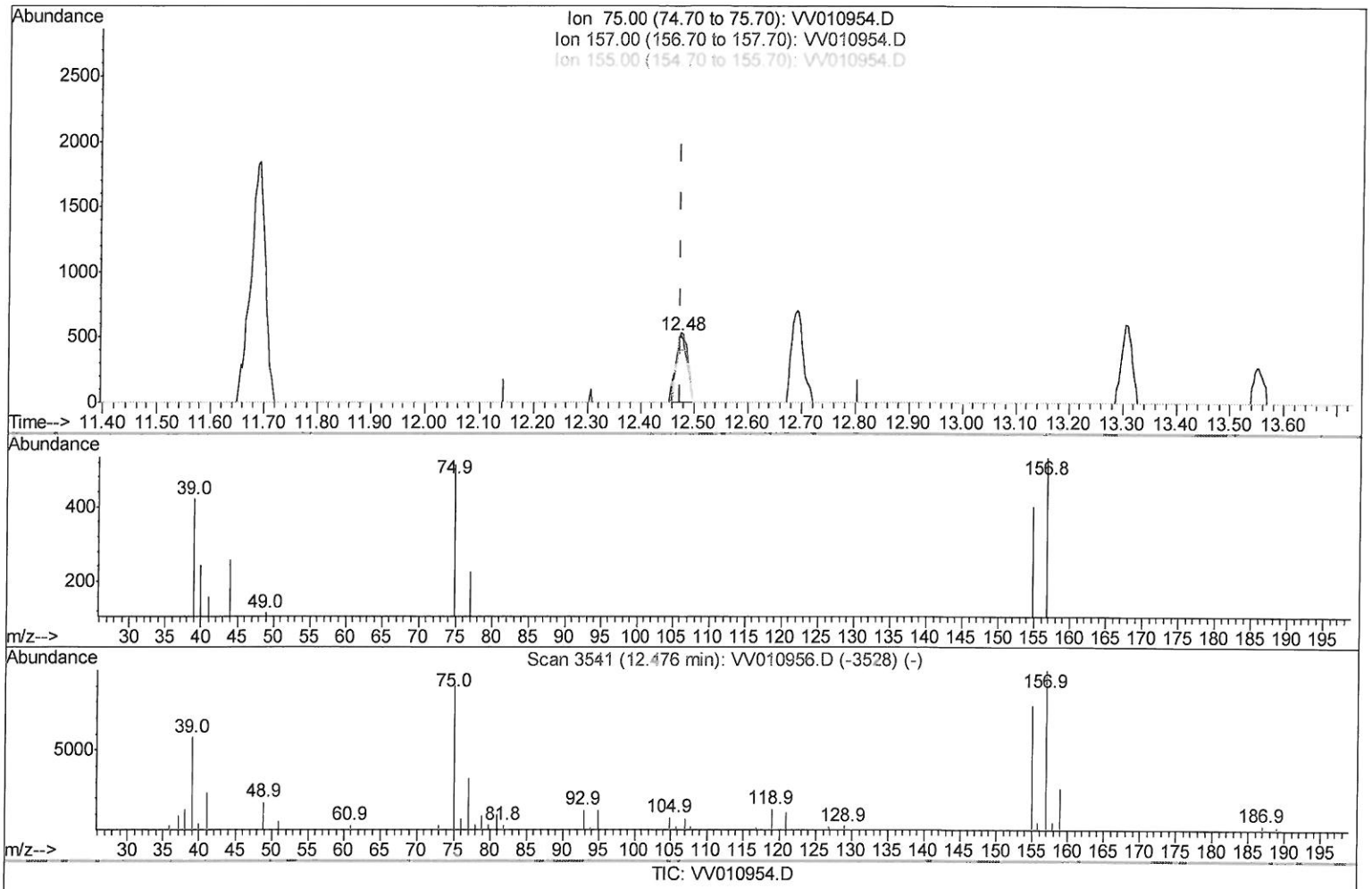
Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM



(66) 1,2-Dibromo-3-chloropropane (T)

12.476min (+0.000) 2.43ug/L m 05/22/19 SY

response 767

Ion	Exp%	Act%
75.00	100	100
157.00	108.70	103.69
155.00	84.80	78.06
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (QT Reviewed)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
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Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM

Quant Time: May 20 14:04:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	140231	25.00	ug/L		0.00
28) Chlorobenzene-d5	8.89	117	134882	25.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	61133	25.00	ug/L		0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3	1.32	65	4495	2.52	ug/L		0.00
7) Chloroethane-d5	1.56	69	3058	2.63	ug/L		0.00
10) 1,1-Dichloroethene-d2	2.12	63	8843	2.62	ug/L		0.00
20) 2-Butanone-d5	3.95	46	2489m	4.43	ug/L		0.01
24) Chloroform-d	4.40	84	10098	2.49	ug/L		0.00
26) 1,2-Dichloroethane-d4	5.08	65	5552	2.41	ug/L		0.00
29) Benzene-d6	5.09	84	20038	2.68	ug/L		0.00
33) 1,2-Dichloropropane-d6	6.11	67	6812	2.86	ug/L		0.00
37) Toluene-d8	7.36	98	17097	2.38	ug/L		0.00
38) trans-1,3-Dichloropropene-	7.67	79	2209	2.13	ug/L		0.00
39) 2-Hexanone-d5	8.14	63	1957	4.34	ug/L		0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	6197	2.81	ug/L		0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	6861	2.69	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.14	85	5746	3.693	ug/L		95
3) Chloromethane	1.25	50	4920	2.641	ug/L		100
5) Vinyl chloride	1.32	62	4954	2.470	ug/L	#	76
6) Bromomethane	1.51	94	2135	4.585	ug/L		99
8) Chloroethane	1.58	64	2313	2.229	ug/L	#	77
9) Trichlorofluoromethane	1.76	101	7995	2.784	ug/L		100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4495	2.595	ug/L		96
12) 1,1-Dichloroethene	2.13	96	3794	2.348	ug/L	#	76
13) Acetone	2.19	43	3182	5.558	ug/L		99
14) Carbon disulfide	2.31	76	11415	2.345	ug/L	#	93
15) Methyl Acetate	2.46	43	2658	2.229	ug/L		99
16) Methylene chloride	2.53	84	6923	3.059	ug/L		98
17) Methyl tert-butyl Ether	2.80	73	11737	2.224	ug/L		97
18) trans-1,2-Dichloroethene	2.78	96	4915	2.553	ug/L		91
19) 1,1-Dichloroethane	3.22	63	8771	2.354	ug/L		96
21) 2-Butanone	4.04	43	3252m	4.400	ug/L		
22) cis-1,2-Dichloroethene	3.96	96	5450	2.419	ug/L		93
23) Bromochloromethane	4.30	128	2338	2.228	ug/L		95
25) Chloroform	4.42	83	9732	2.407	ug/L		97
27) 1,2-Dichloroethane	5.18	62	6188	2.194	ug/L	#	91
30) Cyclohexane	4.72	56	6949	2.680	ug/L		94
31) 1,1,1-Trichloroethane	4.65	97	7484	2.555	ug/L		95
32) Carbon tetrachloride	4.87	117	7065	2.826	ug/L		98
34) Benzene	5.14	78	18707	2.380	ug/L		100
35) Trichloroethene	5.96	95	5501	2.700	ug/L		99
36) Methylcyclohexane	6.17	83	7490m	2.642	ug/L		
40) 1,2-Dichloropropane	6.22	63	5084	2.374	ug/L	#	89
41) Bromodichloromethane	6.55	83	6618	2.410	ug/L		88
42) cis-1,3-Dichloropropene	7.07	75	6425	2.057	ug/L		98
43) 4-Methyl-2-pentanone	7.28	43	6449	4.265	ug/L	#	87

5/22/19 SY

5/22/19 SY

5/22/19 SY

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052019\

Quantitation Report (QT Reviewed)

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : VSTD2.565

Manual Integrations APPROVED
MMDadoda
5/25/2019 1:42:56 AM

Quant Time: May 20 14:04:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) Toluene	7.43	91	19406	2.221	ug/L		97
45) trans-1,3-Dichloropropene	7.69	75	5386	2.040	ug/L		98
46) 1,1,2-Trichloroethane	7.88	97	3985	2.311	ug/L		95
47) Tetrachloroethene	8.02	164	4186	2.780	ug/L		97
49) 2-Hexanone	8.18	43	4276m	3.829	ug/L		
50) Dibromochloromethane	8.29	129	4449	2.319	ug/L		98
51) 1,2-Dibromoethane	8.40	107	3660	2.253	ug/L	#	95
52) Chlorobenzene	8.92	112	14434	2.425	ug/L		99
53) Ethylbenzene	9.05	91	20804	2.173	ug/L		92
54) m,p-Xylene	9.18	106	8095	2.146	ug/L		95
55) o-xylene	9.59	106	7103	1.917	ug/L		92
56) Styrene	9.60	104	12018	1.891	ug/L		97
57) Isopropylbenzene	9.97	105	19828	2.137	ug/L		96
58) 1,1,2,2-Tetrachloroethane	10.29	83	5016	2.202	ug/L	#	83
59) 1,2,3-Trichloropropane	10.32	75	3997	2.422	ug/L	#	77
62) Bromoform	9.77	173	2618	2.744	ug/L	#	91
63) 1,3-Dichlorobenzene	11.23	146	10131	2.399	ug/L		94
64) 1,4-Dichlorobenzene	11.32	146	10547	2.410	ug/L		98
65) 1,2-Dichlorobenzene	11.69	146	9558	2.268	ug/L		97
66) 1,2-Dibromo-3-chloropropan	12.48	75	767m	2.430	ug/L		
67) 1,3,5-Trichlorobenzene	12.69	180	7081	2.300	ug/L		98
68) 1,2,4-trichlorobenzene	13.31	180	4956	1.994	ug/L		99
69) Naphthalene	13.55	128	7502	1.441	ug/L		97
70) 1,2,3-Trichlorobenzene	13.80	180	4938	2.087	ug/L		95

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