Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

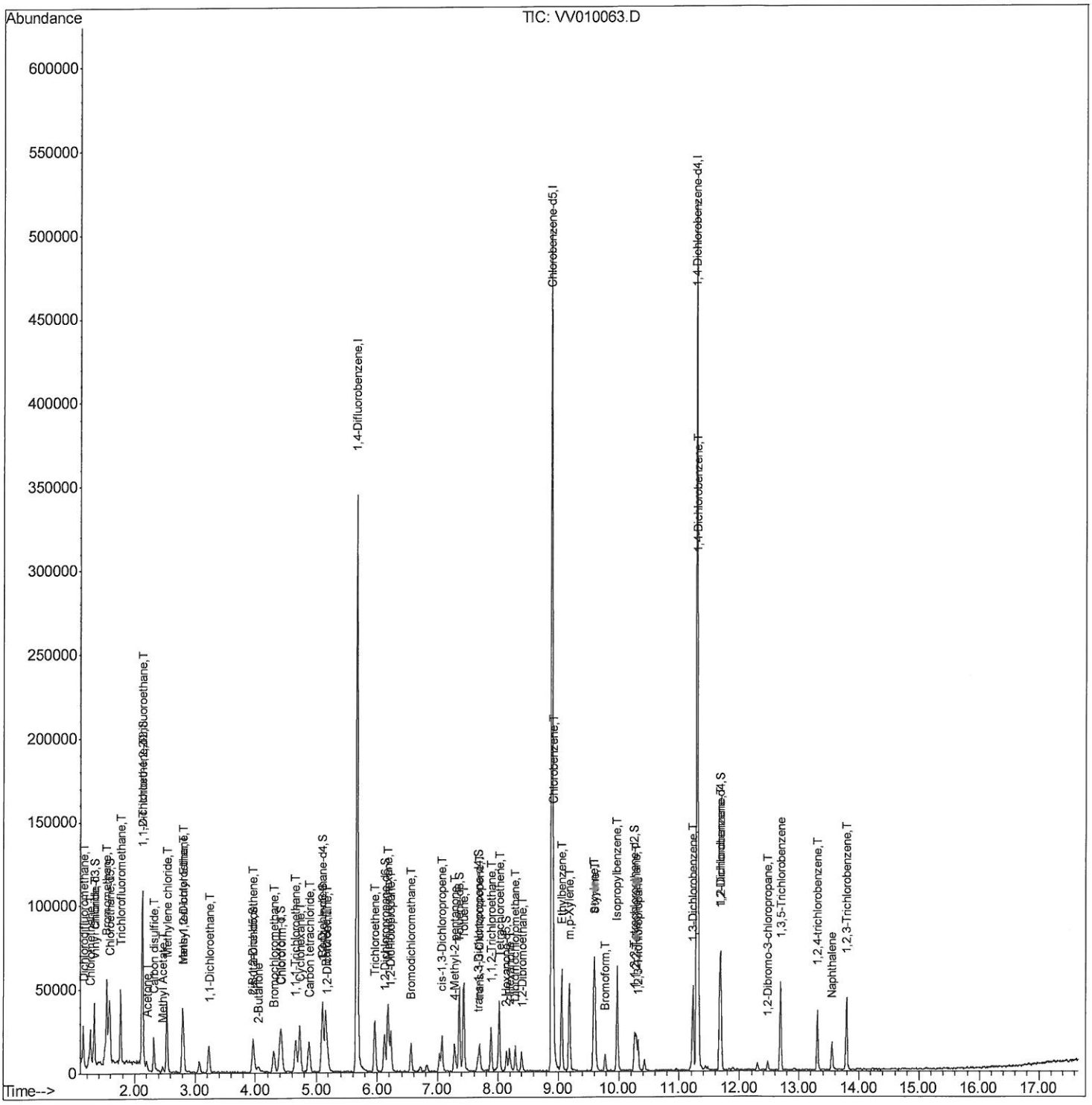
Quantitation Report (QT Reviewed)

Data File : VV010063.D
Acq On : 02 Apr 2019 15:44
Operator : SY/MD
Sample : VSTD2.566
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 16:27:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 02 14:35:17 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

Quantitation Report (Qedit)

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Acq On : 02 Apr 2019 15:44
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Quant Title : VOC Analysis
QLast Update : Tue Apr 02 14:35:17 2019
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Instrument :
MSVOA_V
ClientSampleId :
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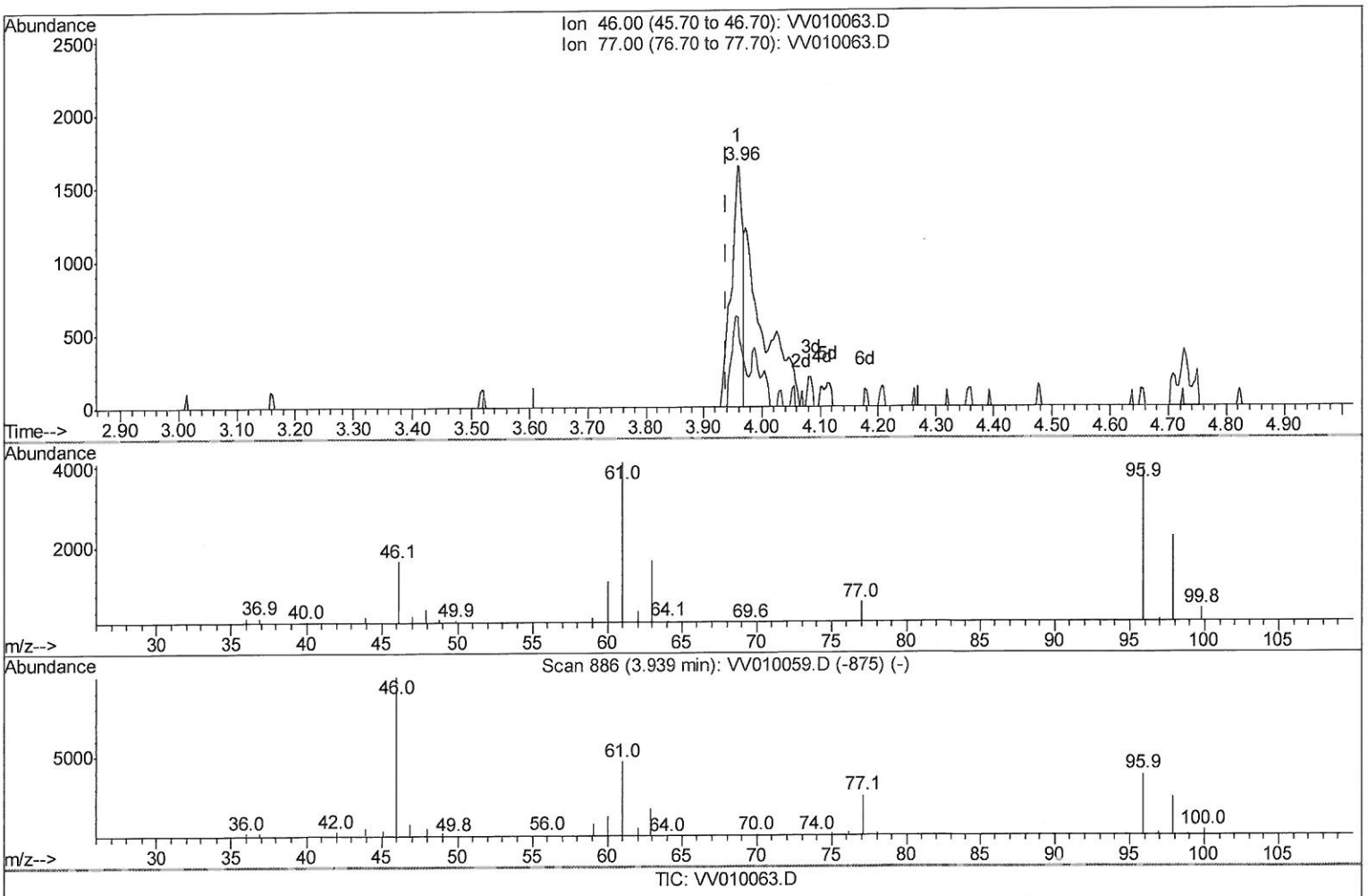
Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM



TIC: VV010063.D

(20) 2-Butanone-d5 (S)

3.958min (+0.019) 1.95ug/L

response 2221

Ion	Exp%	Act%
46.00	100	100
77.00	25.70	38.77#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

Quantitation Report (Qedit)

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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
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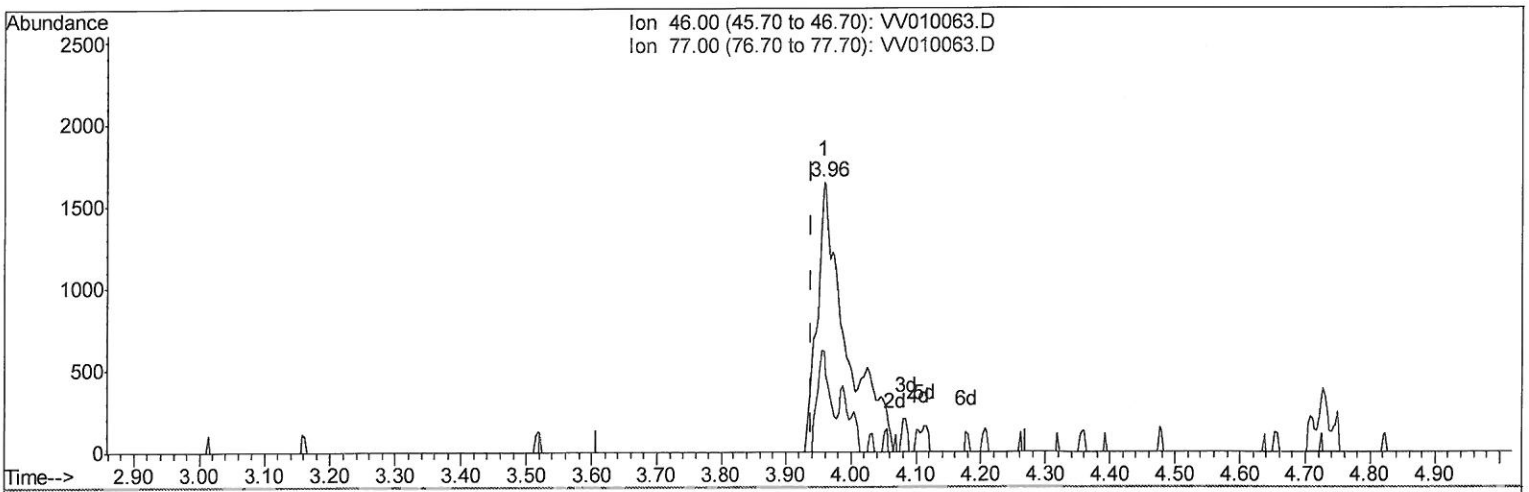
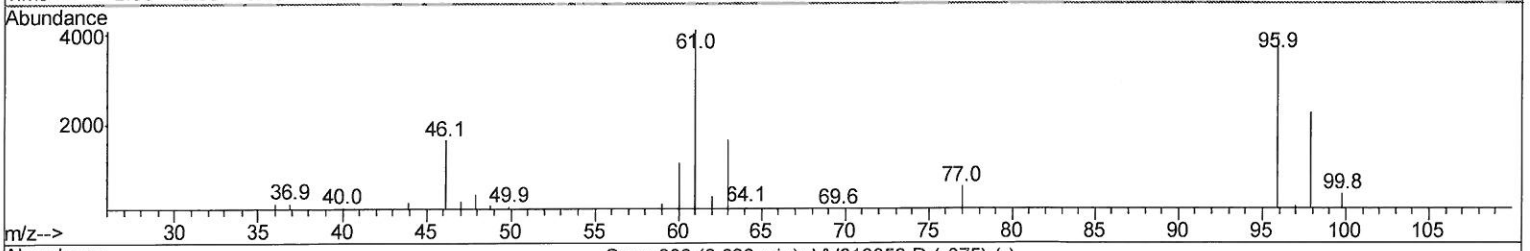
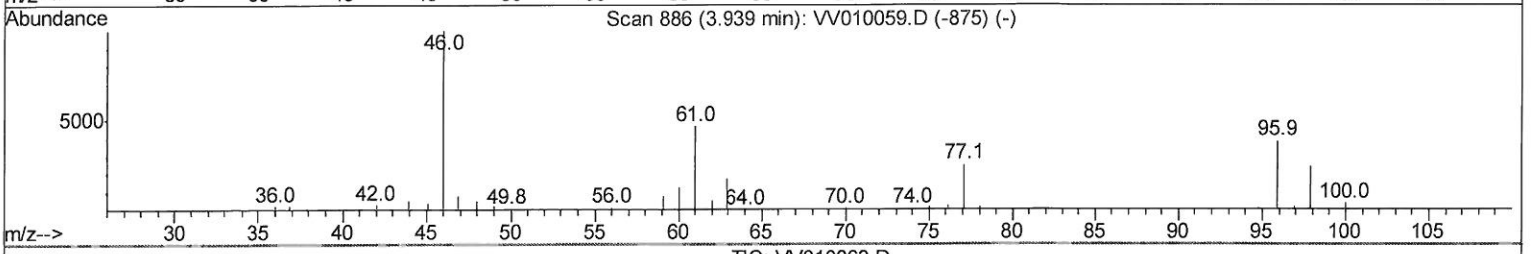
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM







TIC: VV010063.D

(20) 2-Butanone-d5 (S)

3.958min (+0.019) 4.48ug/L m → MD 4/13/19

response 5105

Ion	Exp%	Act%
46.00	100	100
77.00	25.70	16.87#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

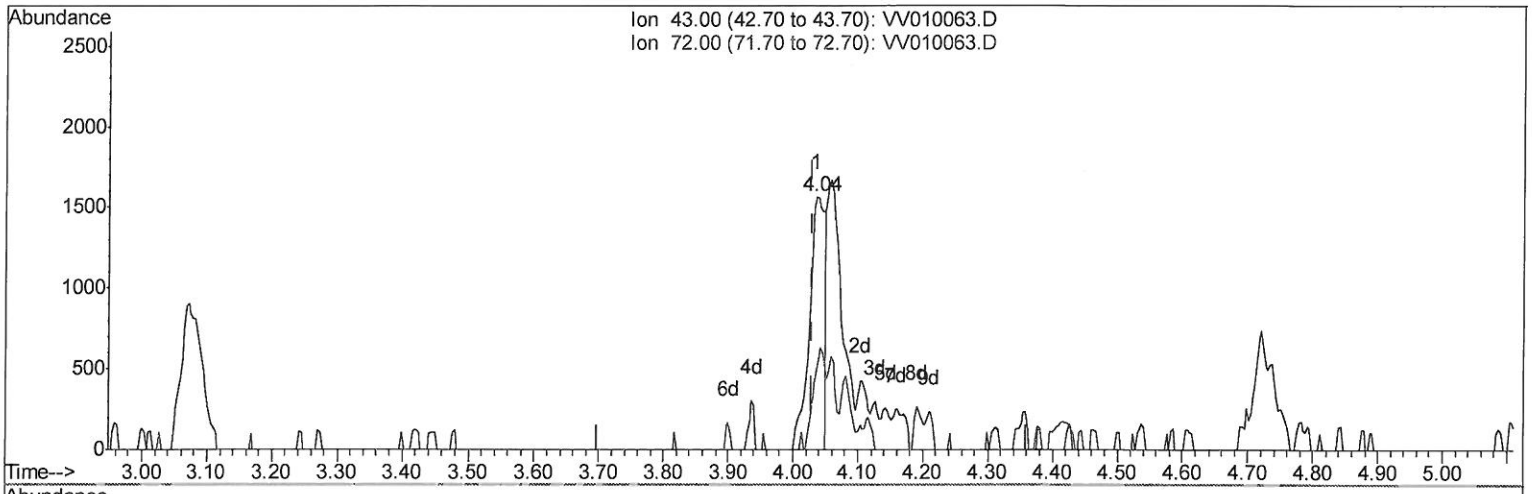
Quantitation Report (Qedit)

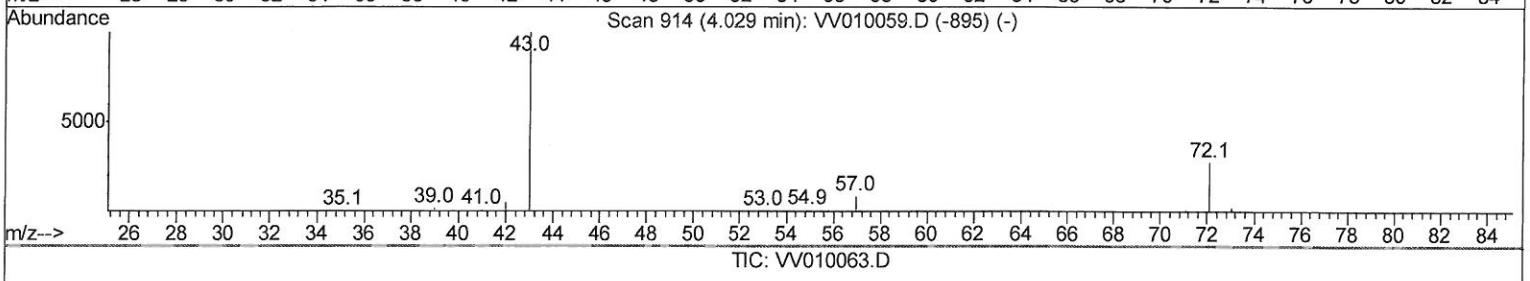
Data File : VV010063.D
Acq On : 02 Apr 2019 15:44
Operator : SY/MD
Sample : VSTD2.566
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 16:24:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 02 14:35:17 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM





TIC: VV010063.D

(21) 2-Butanone

4.036min (+0.007) 2.00ug/L

response 2566

Ion	Exp%	Act%
43.00	100	100
72.00	25.60	32.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

Quantitation Report (Qedit)

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Operator : SY/MD
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Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 16:24:15 2019
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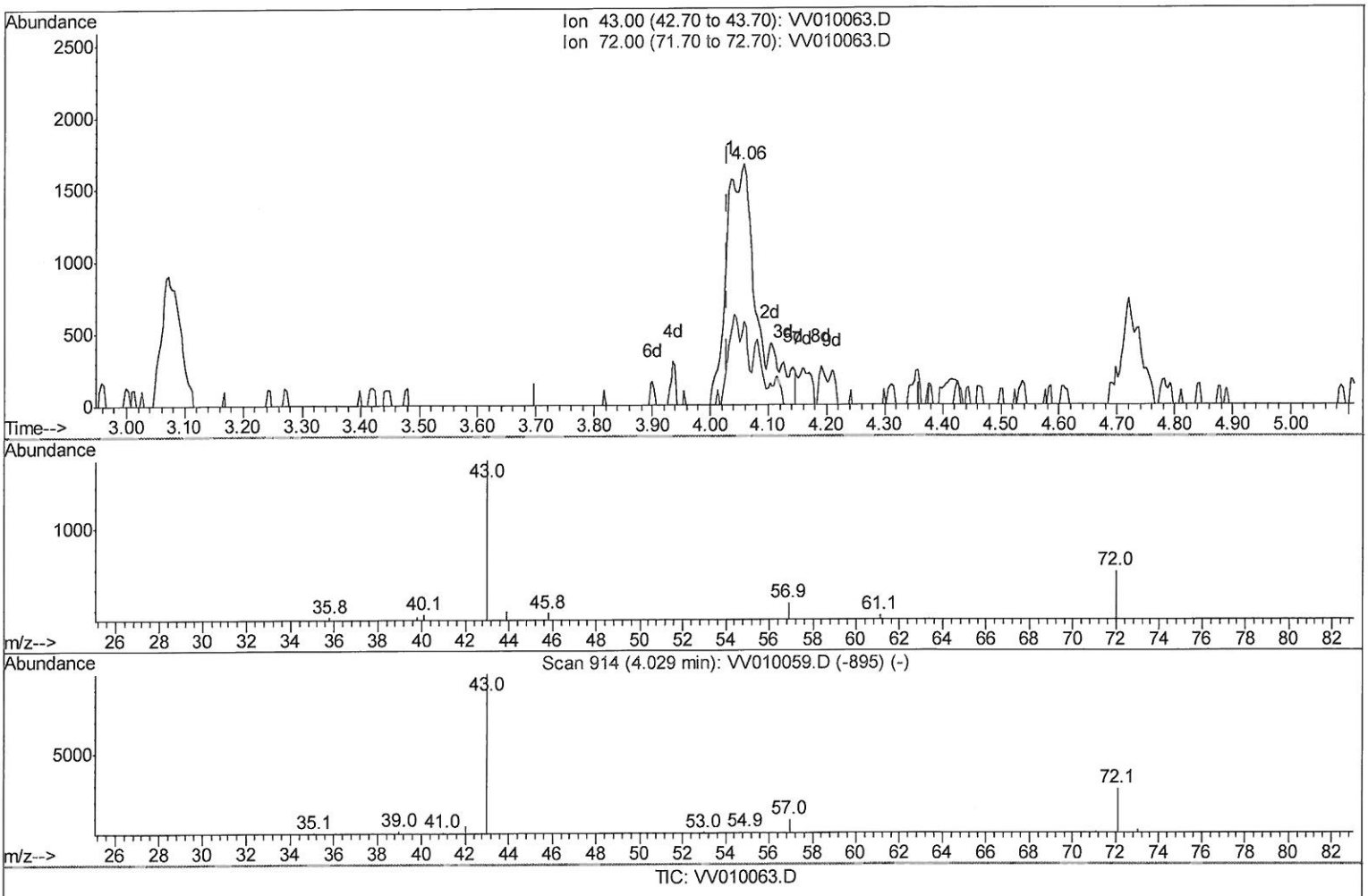
Quant Title : VOC Analysis
QLast Update : Tue Apr 02 14:35:17 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM



TIC: VV010063.D

(21) 2-Butanone

4.058min (+0.029) 4.79ug/L m

response 6138

> MD 4/13/19

Ion	Exp%	Act%
43.00	100	100
72.00	25.60	13.46
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

Quantitation Report (Qedit)

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Misc : 5.00G/10mL/MSVOA_V/SOIL
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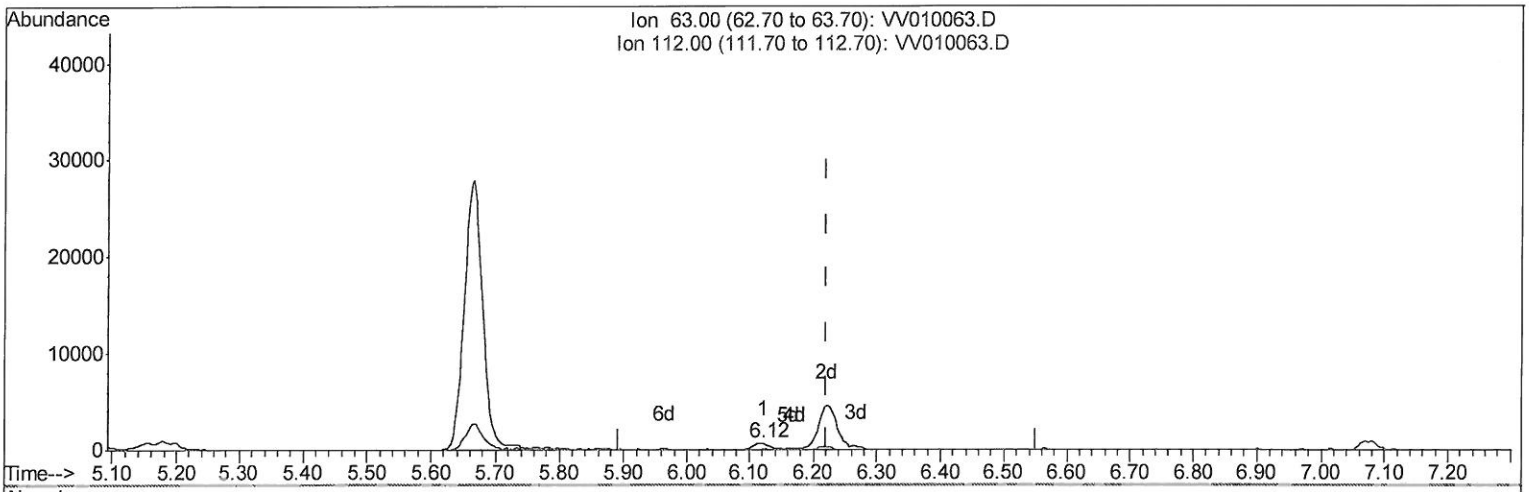
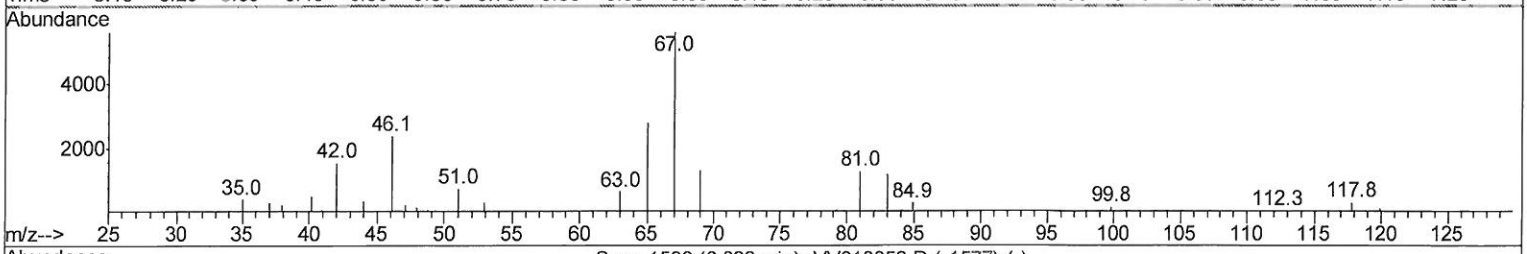
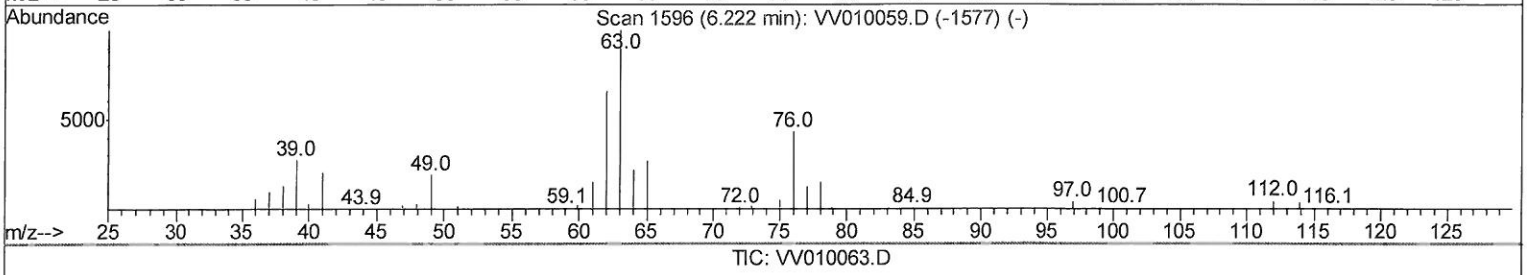
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM







TIC: VV010063.D

(40) 1,2-Dichloropropane (T)

6.122min (-0.100) 0.34ug/L

response 1168

Ion	Exp%	Act%
63.00	100	100
112.00	4.50	4.11
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

Quantitation Report (Qedit)

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ALS Vial : 1 Sample Multiplier: 1

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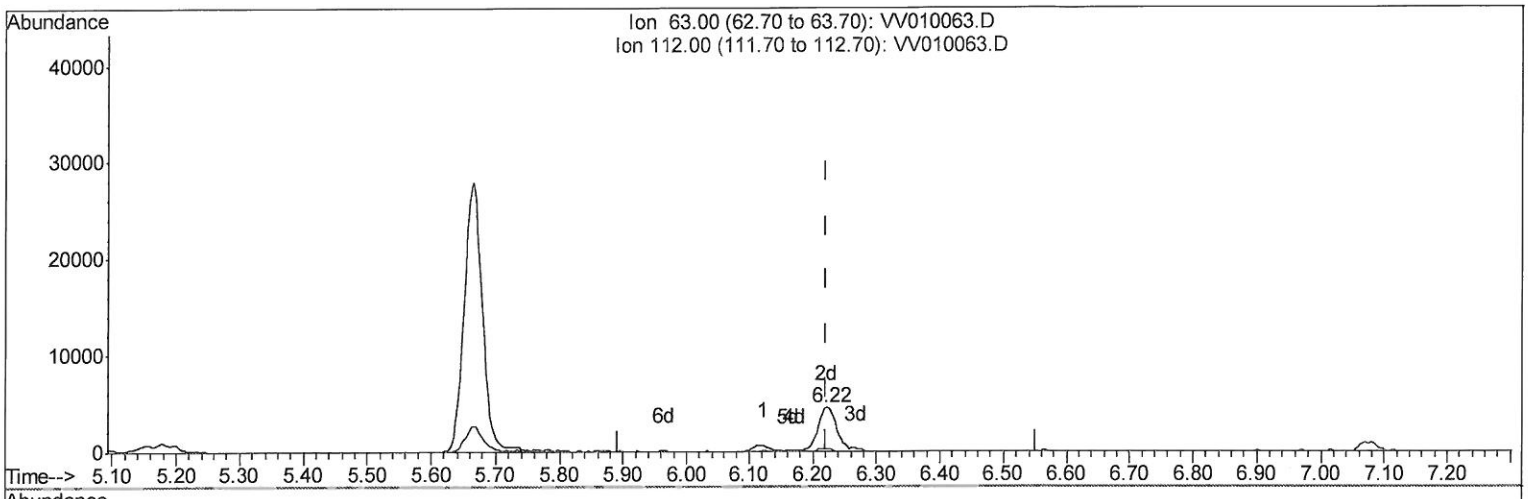
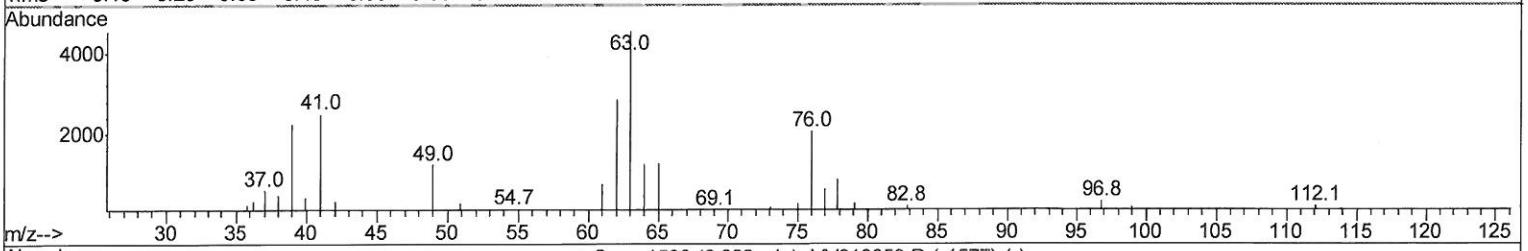
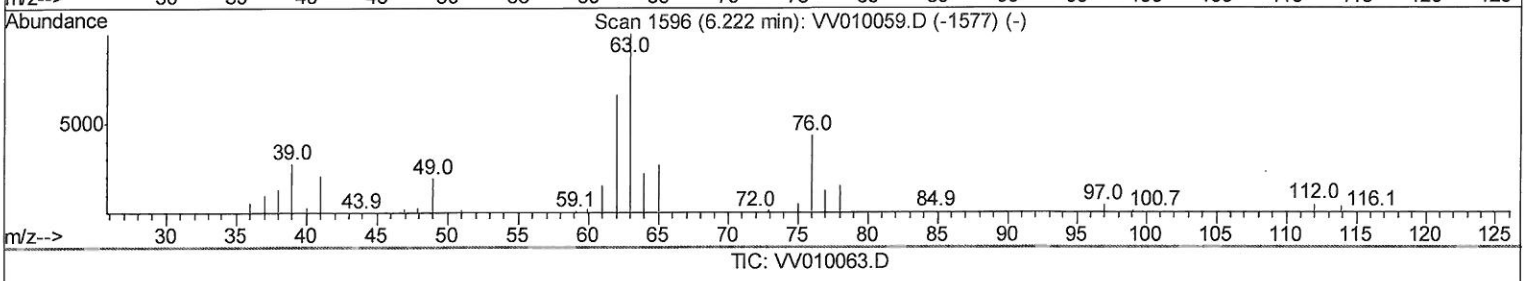
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM







TIC: VV010063.D

(40) 1,2-Dichloropropane (T)

6.222min (+0.000) 2.75ug/L m

response 9575

Ion	Exp%	Act%
63.00	100	100
112.00	4.50	0.50#
0.00	0.00	0.00
0.00	0.00	0.00

SMD 4/13/19

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

Quantitation Report (Qedit)

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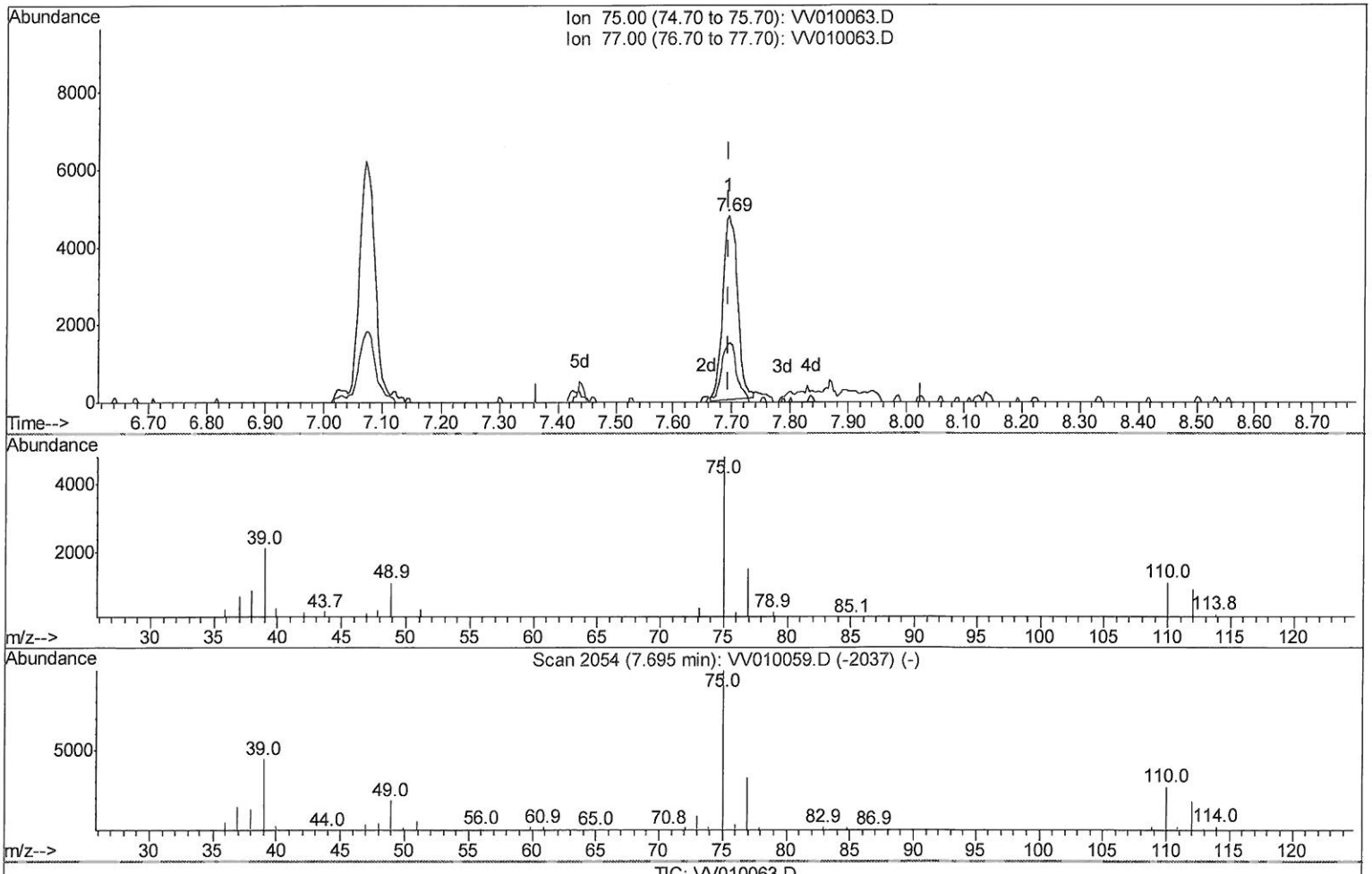
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM



TIC: VV010063.D

(45) trans-1,3-Dichloropropene (T)

7.695min (+0.000) 1.88ug/L

response 8309

Ion	Exp%	Act%
75.00	100	100
77.00	33.60	32.01
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV040219\

Quantitation Report (Qedit)

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Operator : SY/MD
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ALS Vial : 1 Sample Multiplier: 1

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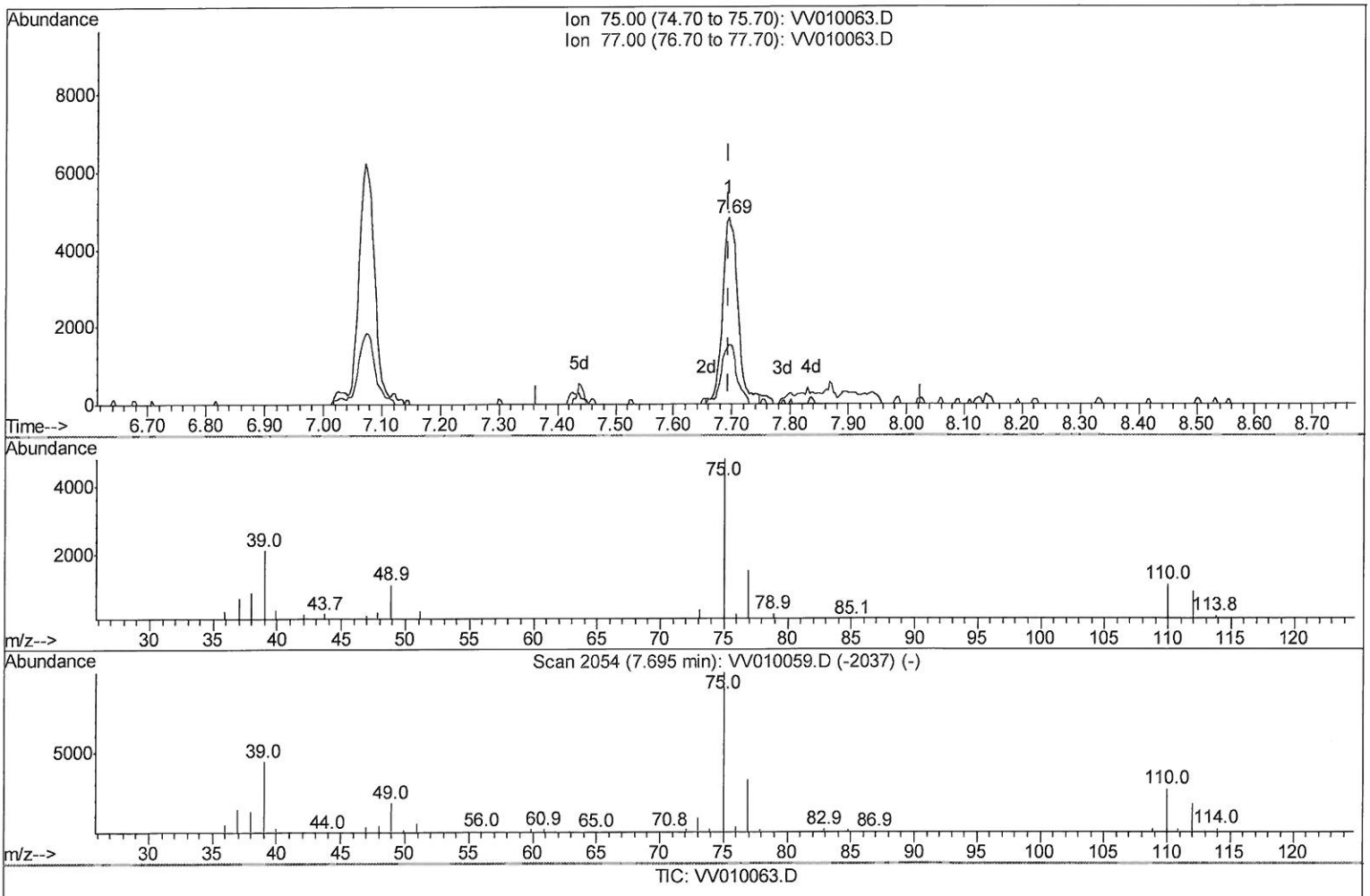
Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM



TIC: VV010063.D

(45) trans-1,3-Dichloropropene (T)

7.695min (+0.000) 2.00ug/L m

response 8846

Ion	Exp%	Act%
75.00	100	100
77.00	33.60	32.01
0.00	0.00	0.00
0.00	0.00	0.00

SM
4/3/19

Quantitation Report (QT Reviewed)

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Manual Integrations APPROVED
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4/6/2019 5:02:11 AM

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	305765	25.00	ug/L		0.00
28) Chlorobenzene-d5	8.90	117	284134	25.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	137919	25.00	ug/L		0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3	1.32	65	11359	2.70	ug/L		0.00
7) Chloroethane-d5	1.58	69	12913	3.49	ug/L		0.00
10) 1,1-Dichloroethene-d2	2.13	63	26928	2.56	ug/L		0.00
20) 2-Butanone-d5	3.96	46	5105m	4.48	ug/L		0.02
24) Chloroform-d	4.41	84	17816	2.42	ug/L		0.00
26) 1,2-Dichloroethane-d4	5.08	65	9913	2.20	ug/L		0.00
29) Benzene-d6	5.10	84	35152	2.40	ug/L		0.00
33) 1,2-Dichloropropane-d6	6.12	67	10593	2.54	ug/L		0.00
37) Toluene-d8	7.36	98	32851	2.29	ug/L		0.00
38) trans-1,3-Dichloropropene-	7.67	79	3772	2.10	ug/L		0.00
39) 2-Hexanone-d5	8.14	63	3425	4.14	ug/L		0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	9753	2.26	ug/L		0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	13928	2.53	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.14	85	13136	2.789	ug/L		100
3) Chloromethane	1.25	50	11178	2.717	ug/L		100
5) Vinyl chloride	1.32	62	11783	2.618	ug/L		89
6) Bromomethane	1.53	94	14340	3.575	ug/L		91
8) Chloroethane	1.59	64	10746	3.607	ug/L		92
9) Trichlorofluoromethane	1.77	101	23579	2.545	ug/L		98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	12423	2.369	ug/L		98
12) 1,1-Dichloroethene	2.14	96	10966	2.426	ug/L		95
13) Acetone	2.20	43	6474	4.801	ug/L		98
14) Carbon disulfide	2.32	76	22754	2.507	ug/L	#	93
15) Methyl Acetate	2.47	43	4186	2.139	ug/L		96
16) Methylene chloride	2.54	84	17861	3.343	ug/L		98
17) Methyl tert-butyl Ether	2.81	73	20392	2.188	ug/L	#	93
18) trans-1,2-Dichloroethene	2.79	96	9950	2.646	ug/L		83
19) 1,1-Dichloroethane	3.24	63	15405	2.329	ug/L		95
21) 2-Butanone	4.06	43	6138m	4.788	ug/L		
22) cis-1,2-Dichloroethene	3.96	96	10049	2.384	ug/L		92
23) Bromochloromethane	4.31	128	4472	2.147	ug/L		89
25) Chloroform	4.43	83	16595	2.141	ug/L		100
27) 1,2-Dichloroethane	5.18	62	11204	2.276	ug/L	#	85
30) Cyclohexane	4.72	56	13300	2.562	ug/L	#	91
31) 1,1,1-Trichloroethane	4.66	97	14547	2.506	ug/L	#	76
32) Carbon tetrachloride	4.88	117	12082	2.285	ug/L		99
34) Benzene	5.15	78	36631	2.574	ug/L		100
35) Trichloroethene	5.96	95	10340	2.541	ug/L		98
36) Methylcyclohexane	6.18	83	15897	2.539	ug/L		98
40) 1,2-Dichloropropane	6.22	63	9575m	2.750	ug/L		
41) Bromodichloromethane	6.56	83	10836	2.335	ug/L		89
42) cis-1,3-Dichloropropene	7.07	75	11420	2.144	ug/L		95
43) 4-Methyl-2-pentanone	7.28	43	12034	4.522	ug/L	#	83

M.D 04/13/19

Quantitation Report (QT Reviewed)

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Instrument : MSVOA_V
ClientSampleId : VSTD2.566

Manual Integrations APPROVED
MMDadoda
4/6/2019 5:02:11 AM

MD
04/13/19

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
44) Toluene	7.43	91	38136	2.365 ug/L		97
45) trans-1,3-Dichloropropene	7.69	75	8846m	1.997 ug/L		
46) 1,1,2-Trichloroethane	7.88	97	7563	2.398 ug/L		96
47) Tetrachloroethene	8.02	164	9060	2.623 ug/L		94
49) 2-Hexanone	8.19	43	7742	4.387 ug/L	#	92
50) Dibromochloromethane	8.29	129	7163	1.964 ug/L		95
51) 1,2-Dibromoethane	8.40	107	7235	2.288 ug/L	#	93
52) Chlorobenzene	8.93	112	27346	2.463 ug/L		95
53) Ethylbenzene	9.06	91	42894	2.407 ug/L		96
54) m,p-Xylene	9.19	106	16735	2.342 ug/L		86
55) o-xylene	9.59	106	15049	2.227 ug/L		98
56) Styrene	9.61	104	22974	2.032 ug/L		99
57) Isopropylbenzene	9.97	105	39815	2.211 ug/L		99
58) 1,1,2,2-Tetrachloroethane	10.29	83	9417	2.308 ug/L		94
59) 1,2,3-Trichloropropane	10.32	75	6735	2.250 ug/L		94
62) Bromoform	9.77	173	3971	2.061 ug/L	#	94
63) 1,3-Dichlorobenzene	11.23	146	20293	2.440 ug/L		98
64) 1,4-Dichlorobenzene	11.32	146	22269	2.546 ug/L		99
65) 1,2-Dichlorobenzene	11.69	146	20998	2.558 ug/L		95
66) 1,2-Dibromo-3-chloropropan	12.48	75	1226	2.316 ug/L	#	78
67) 1,3,5-Trichlorobenzene	12.69	180	15419	2.513 ug/L		98
68) 1,2,4-trichlorobenzene	13.32	180	10743	2.401 ug/L		96
69) Naphthalene	13.55	128	13410	1.906 ug/L		98
70) 1,2,3-Trichlorobenzene	13.80	180	8924	2.129 ug/L		87

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