

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120720\
 Data File : VD067896.D
 Acq On : 07 Dec 2020 13:30
 Operator : VA/SY
 Sample : L4968-01
 Misc : 6.14G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HSD-SOIL

Quant Time: Dec 08 03:13:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 02 08:05:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	221491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	303181	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	274313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	136329	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	107914	45.38	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	90.76%
35) Dibromofluoromethane	7.92	113	90803	44.76	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	89.52%
50) Toluene-d8	10.34	98	340624	46.64	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	93.28%
62) 4-Bromofluorobenzene	12.64	95	122118	48.37	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	96.74%

Target Compounds

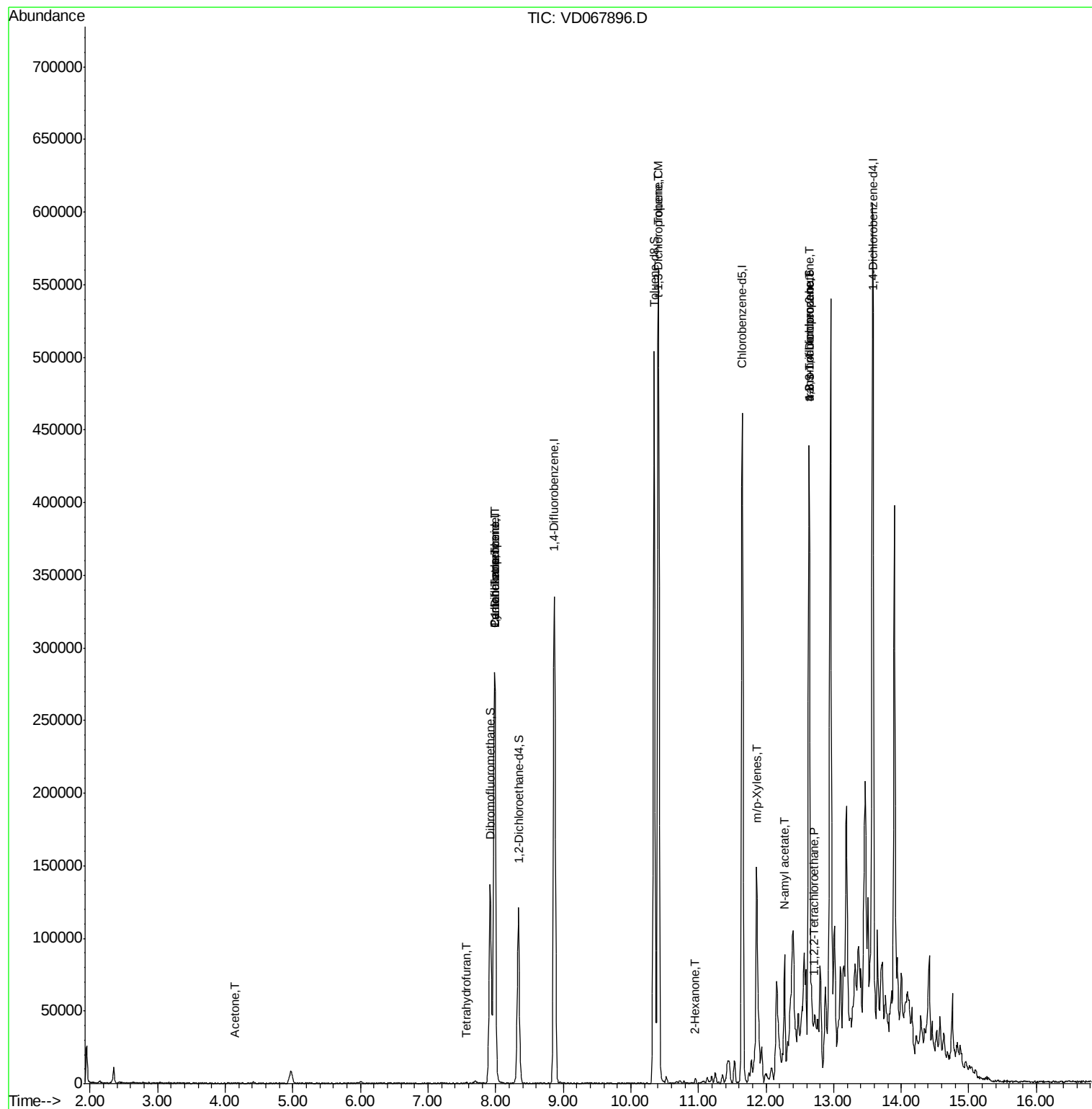
					Qvalue	
11) Tert butyl alcohol	5.21	59	700	Below Cal	#	74
16) Acetone	4.15	43	538	1.831	ug/l #	47
29) Tetrahydrofuran	7.57	42	480	2.728	ug/l #	69
31) Cyclohexane	7.98	56	4407	1.759	ug/l #	41
36) 1,1-Dichloropropene	7.99	75	14417	5.493	ug/l #	49
38) Carbon Tetrachloride	7.99	117	24756	6.234	ug/l #	19
41) Methacrylonitrile	7.56	41	103	Below Cal	#	14
52) Toluene	10.41	92	254379	50.662	ug/l	99
53) t-1,3-Dichloropropene	10.40	75	3635	1.441	ug/l #	1
59) 2-Hexanone	10.96	43	819	1.764	ug/l #	21
68) m/p-Xylenes	11.86	106	4670	1.228	ug/l	91
74) N-amyl acetate	12.28	43	12966	11.181	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.71	83	2755	2.226	ug/l #	27
76) 1,2,3-Trichloropropane	12.64	75	69938	70.446	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.64	75	69938	168.513	ug/l #	7

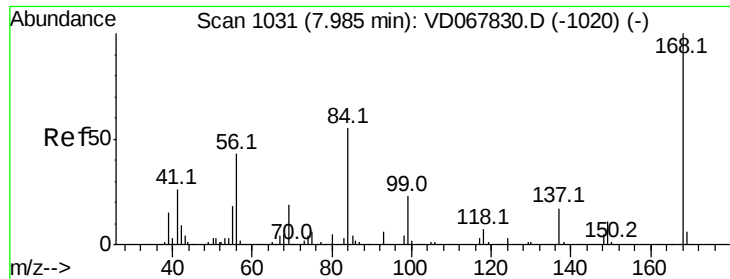
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD120720\
Data File : VD067896.D
Acq On : 07 Dec 2020 13:30
Operator : VA/SY
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Misc : 6.14G/5.00ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

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Quant Time: Dec 08 03:13:49 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 02 08:05:58 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

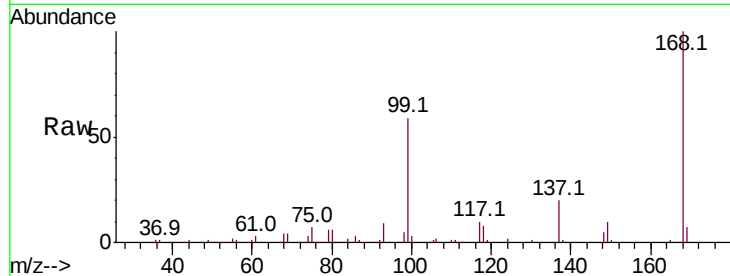
HSD-SOIL

Tot Ion:168 Resp: 221491

Ion Ratio Lower Upper

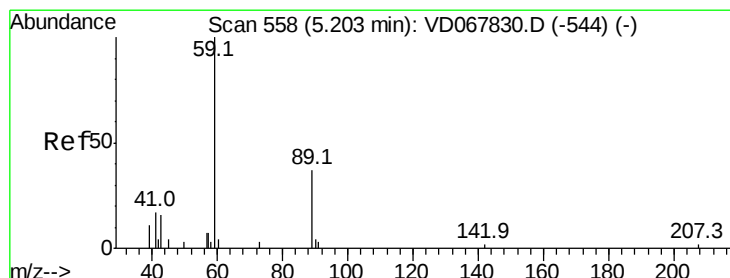
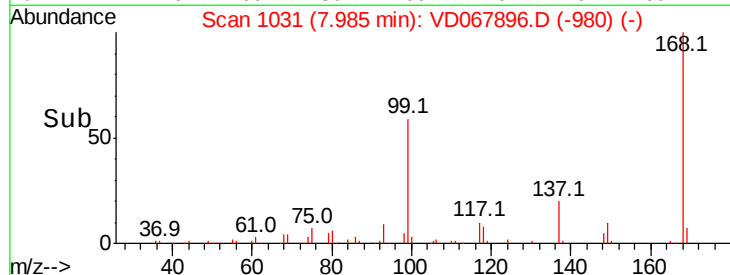
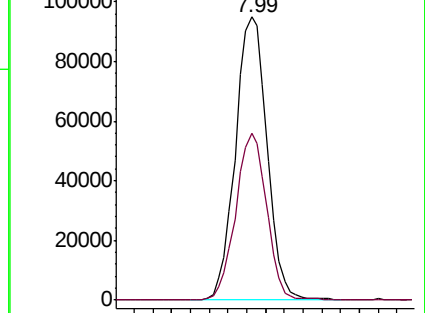
168 100

99 58.8 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD067896.D

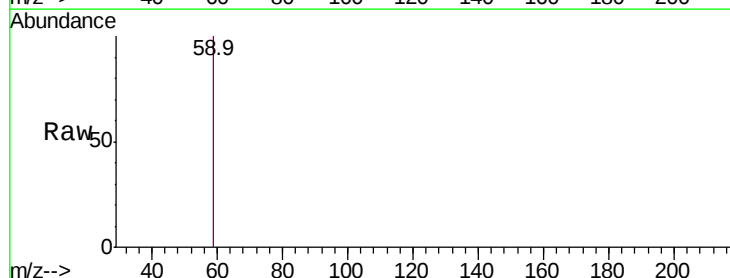
Acq: 07 Dec 2020 13:30

Tgt Ion: 59 Resp: 700

Ion Ratio Lower Upper

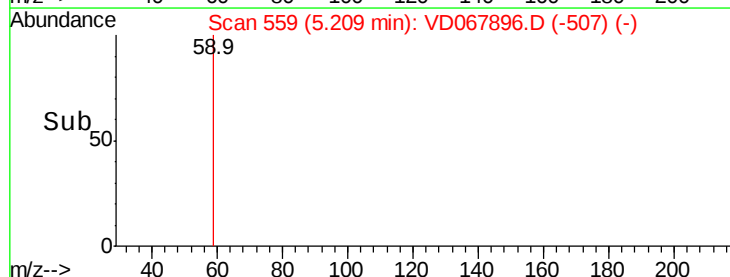
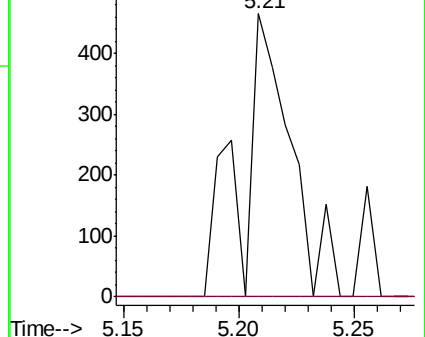
59 100

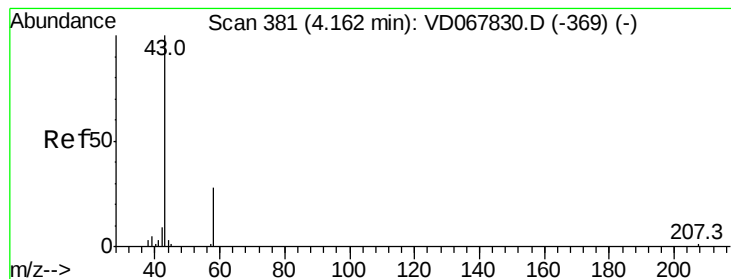
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.831 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

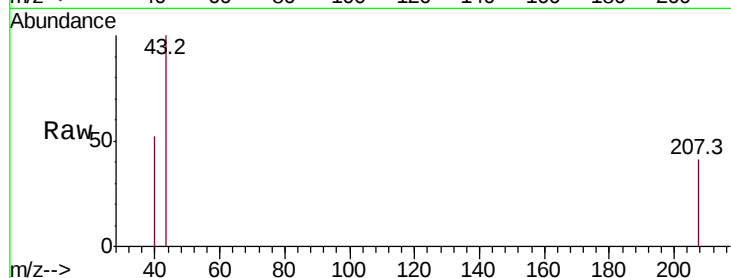
HSD-SOIL

Tot Ion: 43 Resp: 538

Ion Ratio Lower Upper

43 100

58 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.15

4.16

4.17

4.18

4.19

4.20

4.21

4.22

4.23

4.24

4.25

4.26

4.27

4.28

4.29

4.30

4.31

4.32

4.33

4.34

4.35

4.36

4.37

4.38

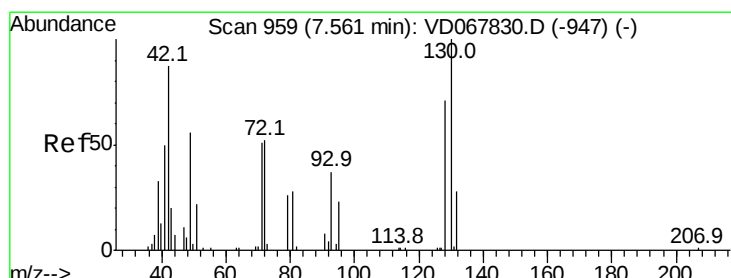
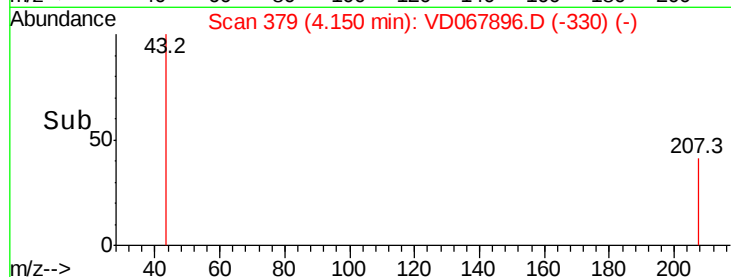
4.39

4.40

4.41

4.42

4.43



#29

Tetrahydrofuran

Concen: 2.728 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.01 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

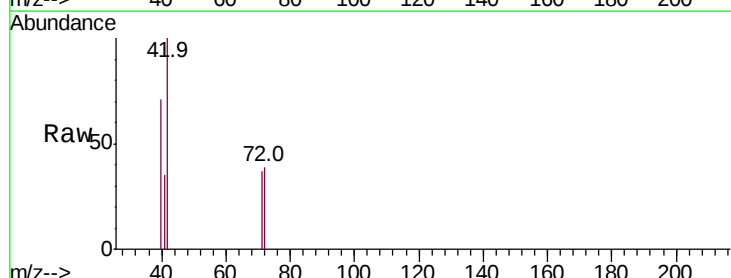
Tgt Ion: 42 Resp: 480

Ion Ratio Lower Upper

42 100

72 52.1 51.9 77.9

71 25.2 48.2 72.4#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

7.57

7.58

7.59

7.60

7.61

7.62

7.63

7.64

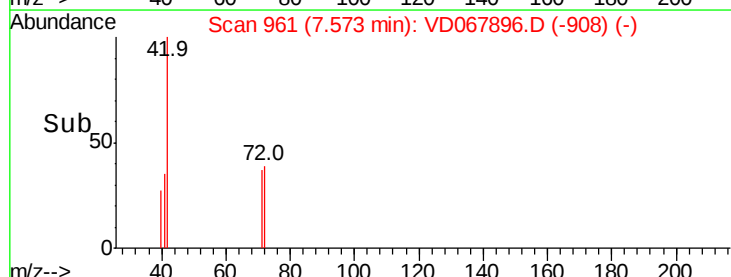
7.65

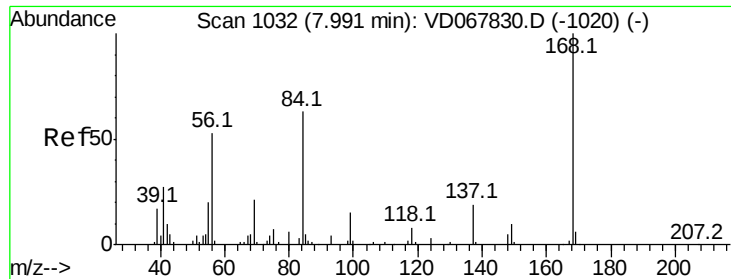
7.66

7.67

7.68

7.69

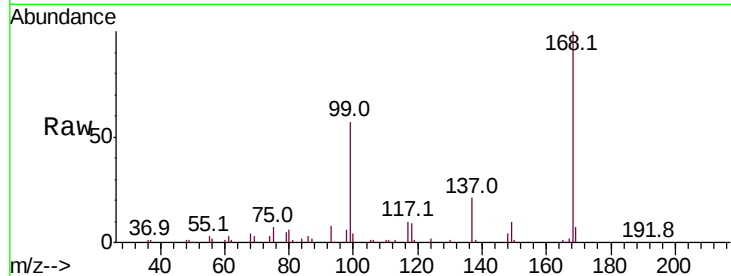




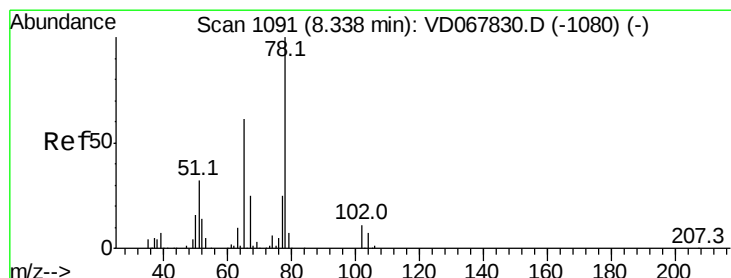
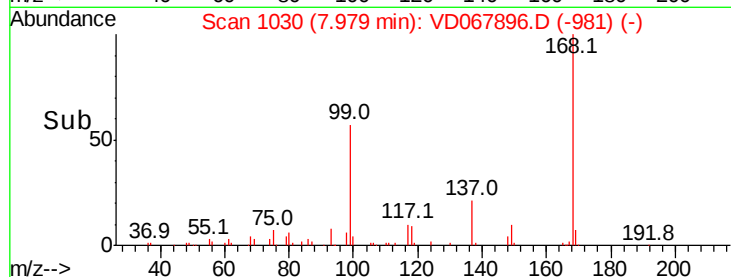
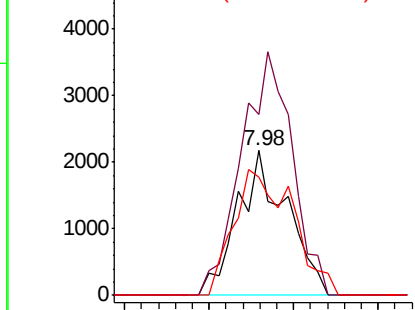
#31
Cyclohexane
Concen: 1.759 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

Instrument :
MSVOA_D
ClientSampleId :
HSD-SOIL

Tot Ion: 56 Resp: 4407
Ion Ratio Lower Upper
56 100
69 124.9 32.1 48.1#
84 81.9 93.2 139.8#

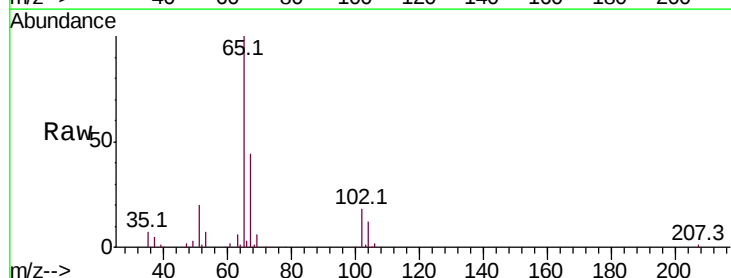


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

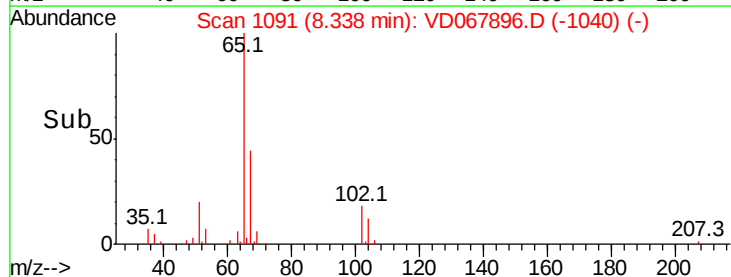
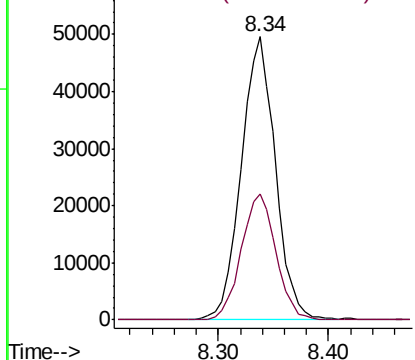


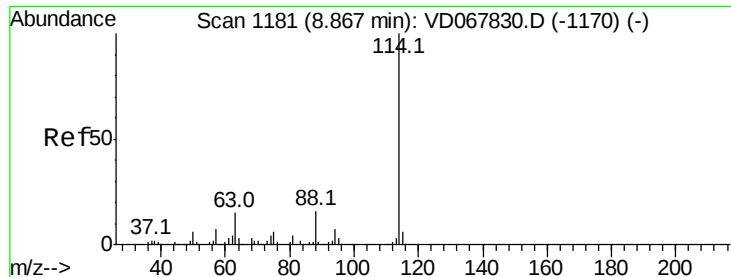
#33
1,2-Dichloroethane-d4
Concen: 45.384 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

Tgt Ion: 65 Resp: 107914
Ion Ratio Lower Upper
65 100
67 45.1 0.0 92.0



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

HSD-SOIL

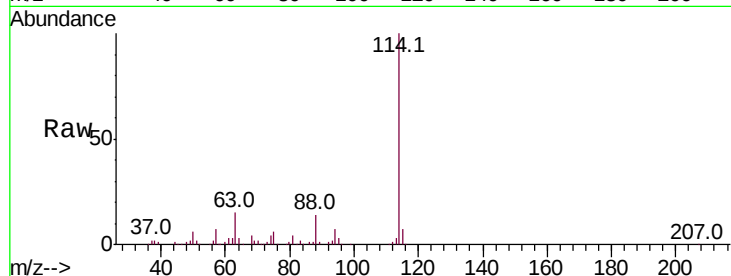
Tot Ion:114 Resp: 303181

Ion Ratio Lower Upper

114 100

63 15.1 0.0 30.8

88 14.2 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V

200000

150000

100000

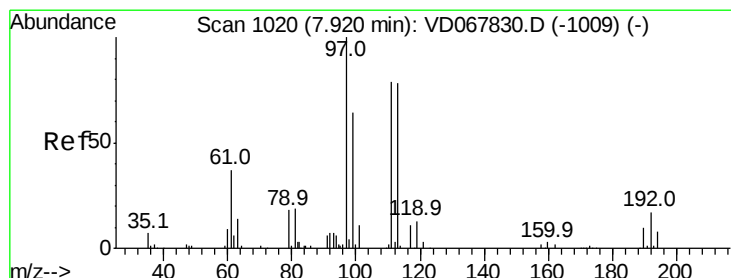
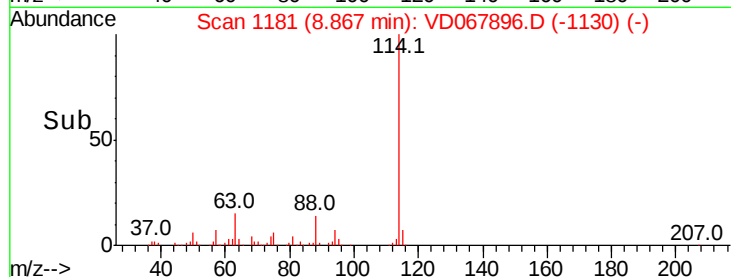
50000

0

8.80 8.85 8.90 8.95

8.87

Time-->



#35

Dibromofluoromethane

Concen: 44.759 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

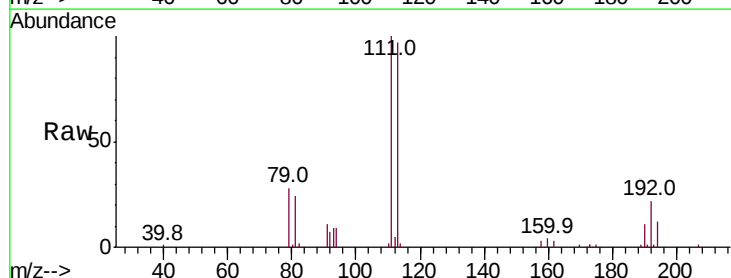
Tgt Ion:113 Resp: 90803

Ion Ratio Lower Upper

113 100

111 100.7 81.2 121.8

192 21.9 16.8 25.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

50000

40000

30000

20000

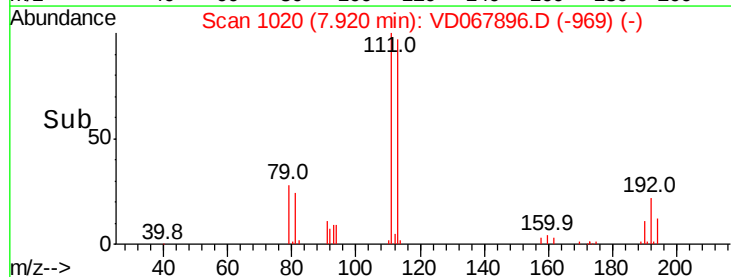
10000

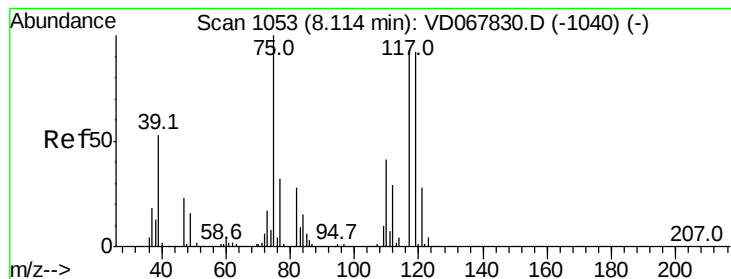
0

7.80 7.90 8.00

7.92

Time-->





#36

1,1-Dichloropropene

Concen: 5.493 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampled :

HSD-SOIL

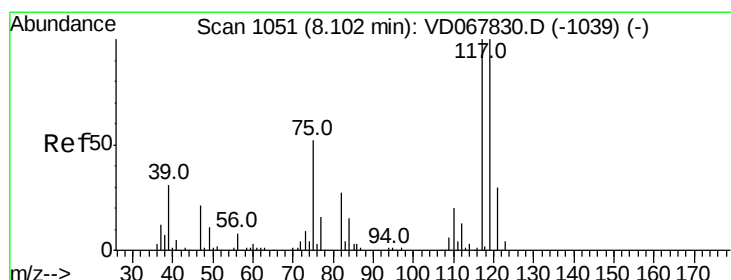
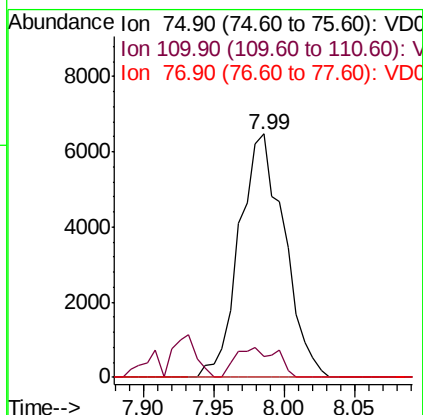
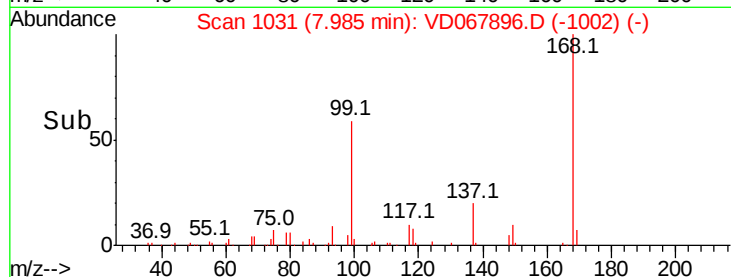
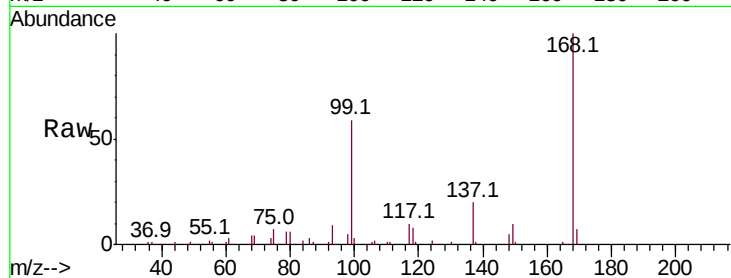
Tot Ion: 75 Resp: 14417

Ion Ratio Lower Upper

75 100

110 11.3 20.3 61.0#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.234 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

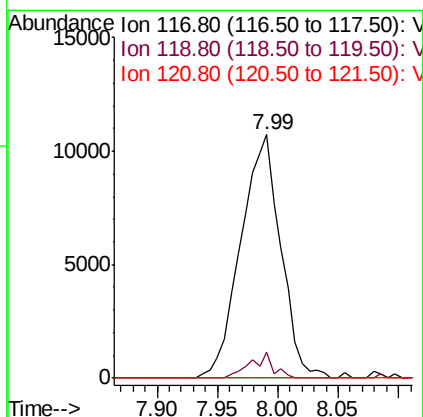
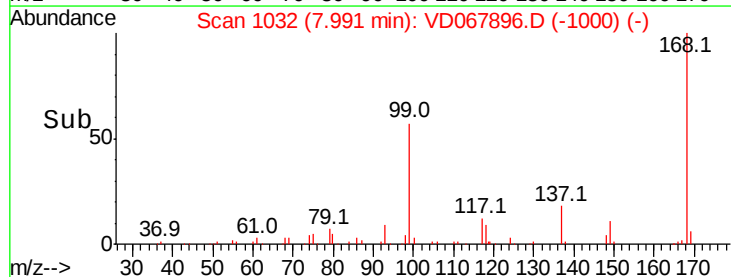
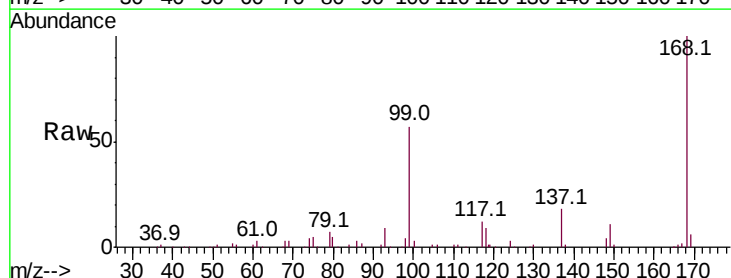
Tgt Ion: 117 Resp: 24756

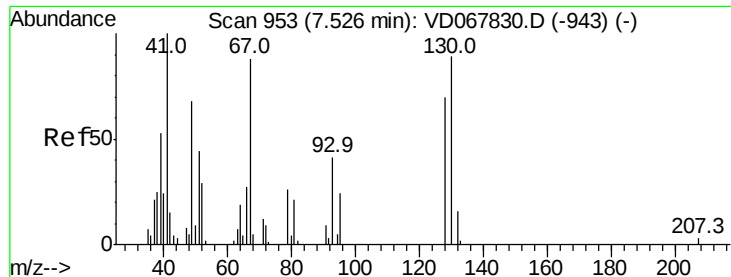
Ion Ratio Lower Upper

117 100

119 10.5 79.7 119.5#

121 0.0 23.8 35.6#

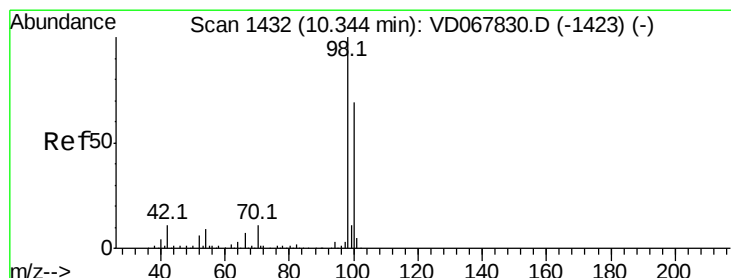
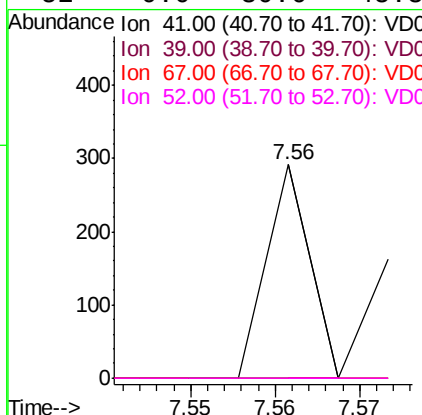
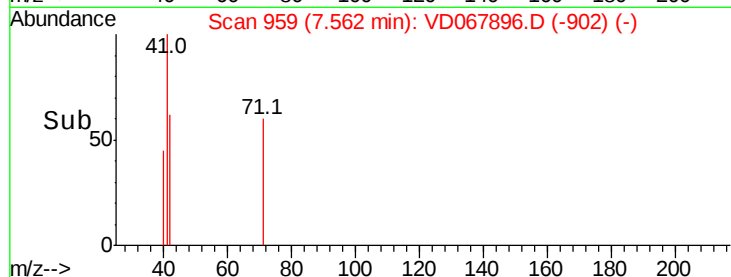
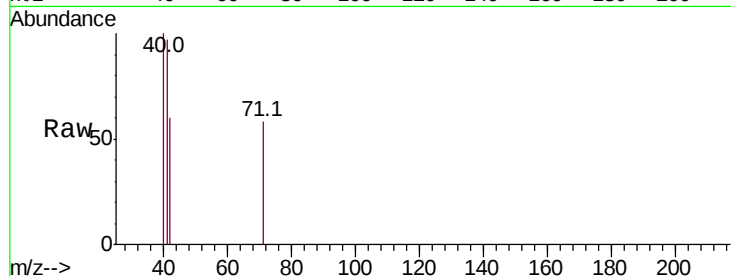




#41
Methacrylonitrile
Concen: Below Cal
RT: 7.56 min Scan# 959
Delta R.T. 0.04 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

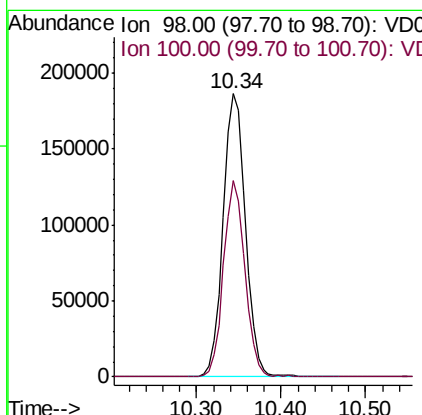
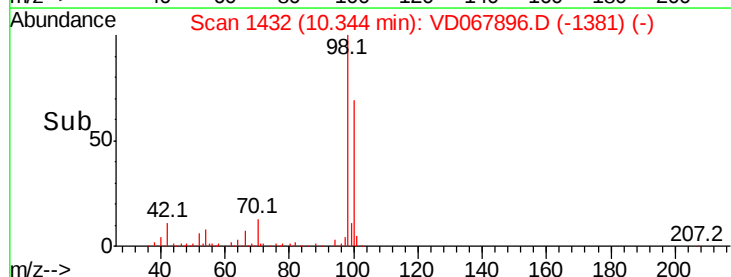
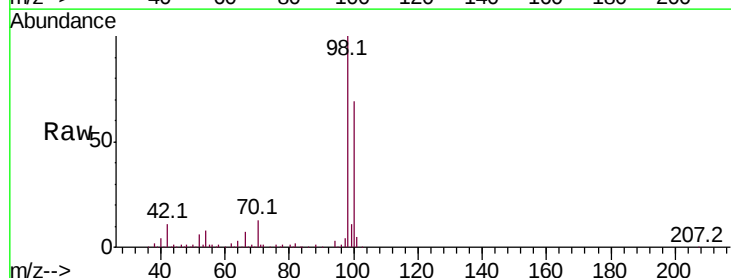
Instrument :
MSVOA_D
ClientSampleId :
HSD-SOIL

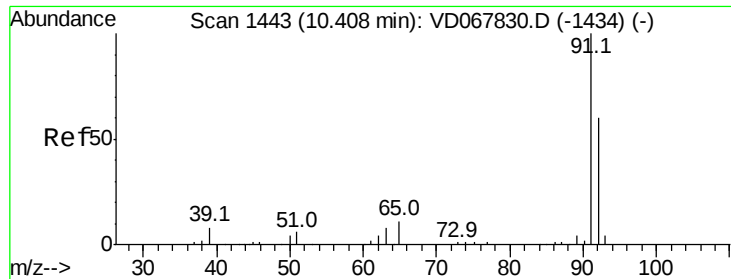
Tot Ion: 41 Resp: 103
Ion Ratio Lower Upper
41 100
39 0.0 42.1 63.1#
67 0.0 82.4 123.6#
52 0.0 30.6 45.8#



#50
Toluene-d8
Concen: 46.642 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

Tgt Ion: 98 Resp: 340624
Ion Ratio Lower Upper
98 100
100 66.5 52.9 79.3





#52

Toluene

Concen: 50.662 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

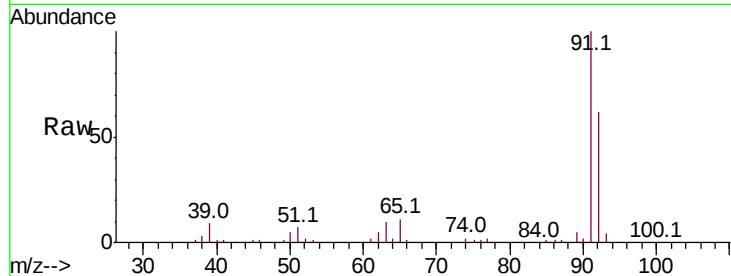
HSD-SOIL

Tot Ion: 92 Resp: 254379

Ion Ratio Lower Upper

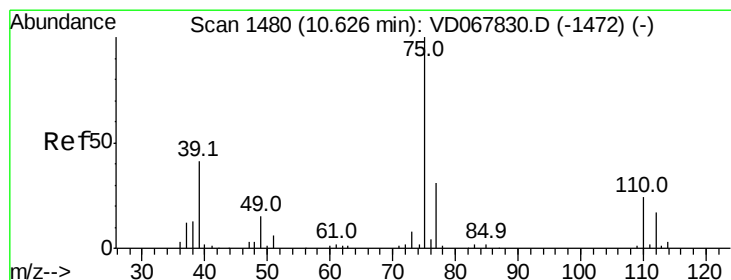
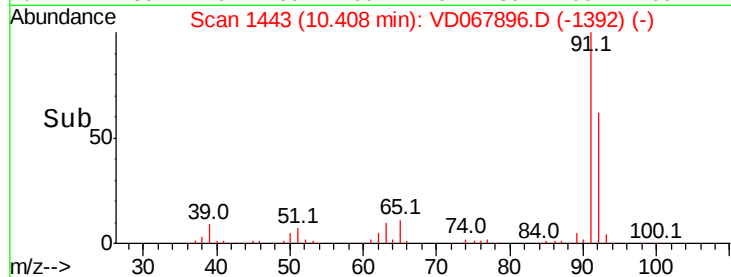
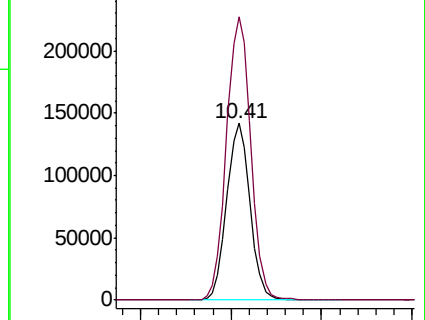
92 100

91 166.4 134.2 201.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#53

t-1,3-Dichloropropene

Concen: 1.441 ug/l

RT: 10.40 min Scan# 1441

Delta R.T. -0.23 min

Lab File: VD067896.D

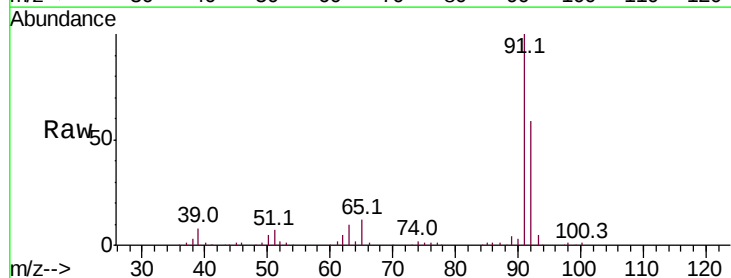
Acq: 07 Dec 2020 13:30

Tgt Ion: 75 Resp: 3635

Ion Ratio Lower Upper

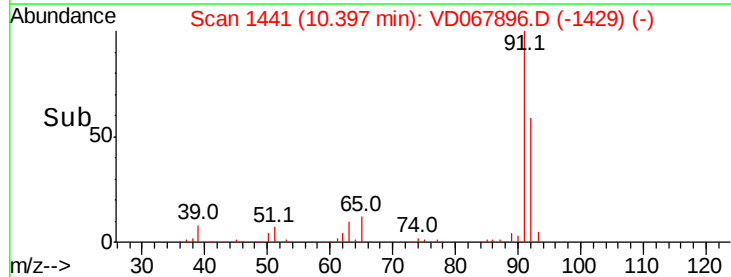
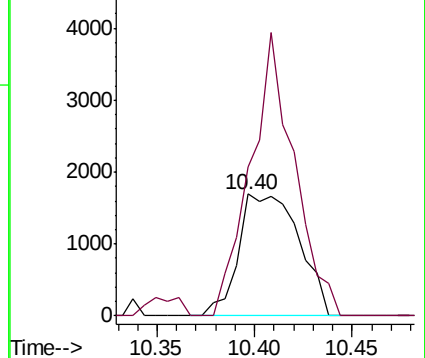
75 100

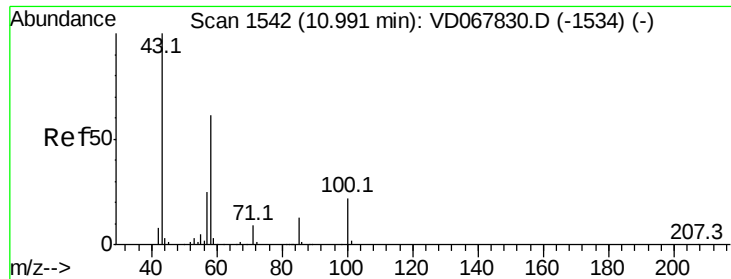
77 122.5 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

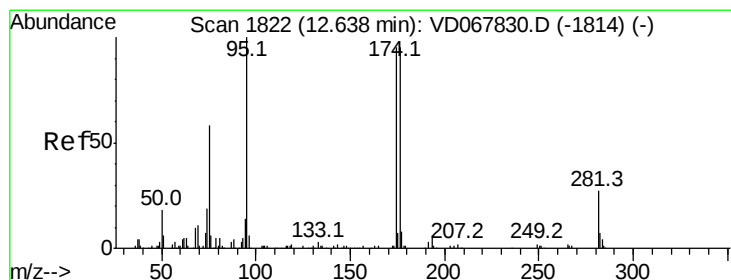
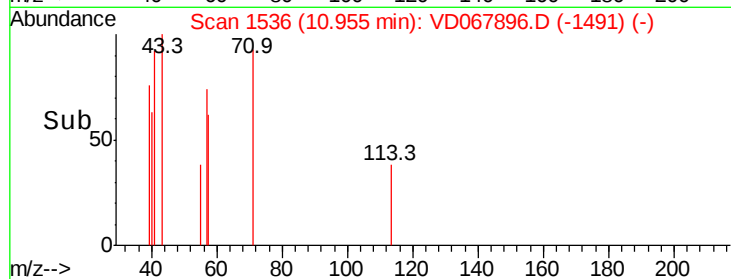
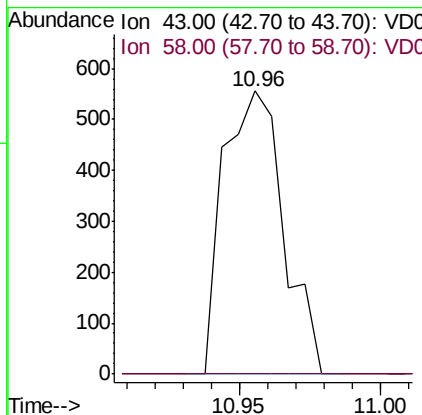
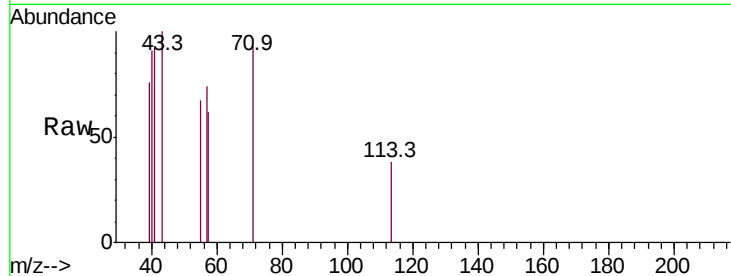




#59
2-Hexanone
Concen: 1.764 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.04 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

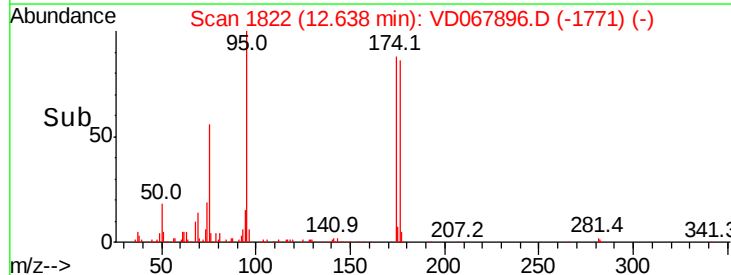
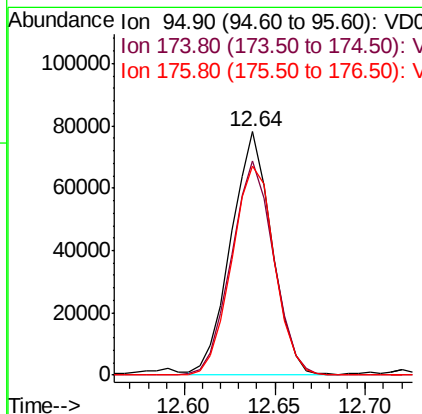
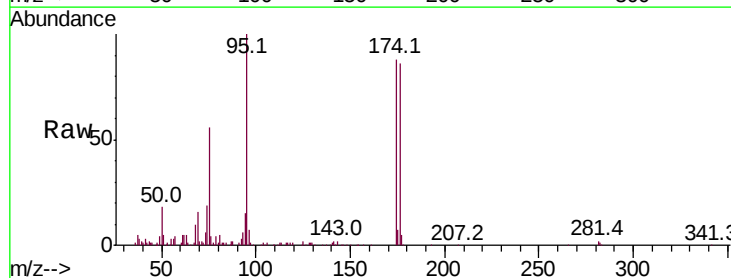
Instrument :
MSVOA_D
ClientSampleId :
HSD-SOIL

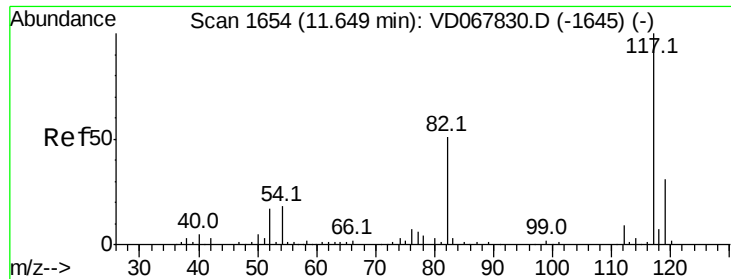
Tot Ion: 43 Resp: 819
Ion Ratio Lower Upper
43 100
58 0.0 29.9 89.7#



#62
4-Bromofluorobenzene
Concen: 48.366 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

Tgt Ion: 95 Resp: 122118
Ion Ratio Lower Upper
95 100
174 91.4 0.0 186.0
176 89.9 0.0 184.2

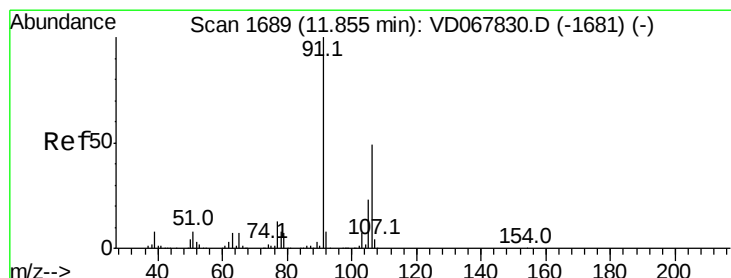
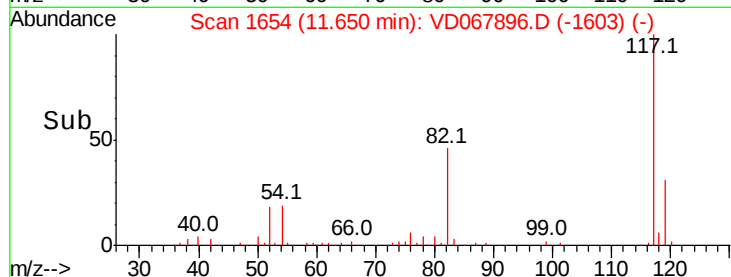
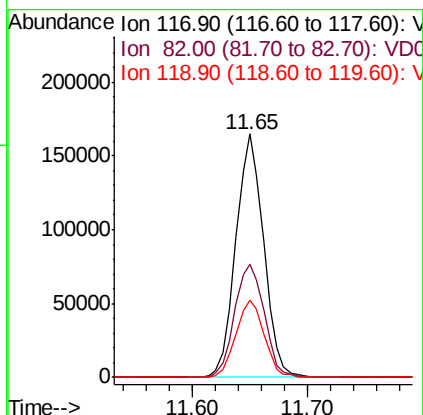
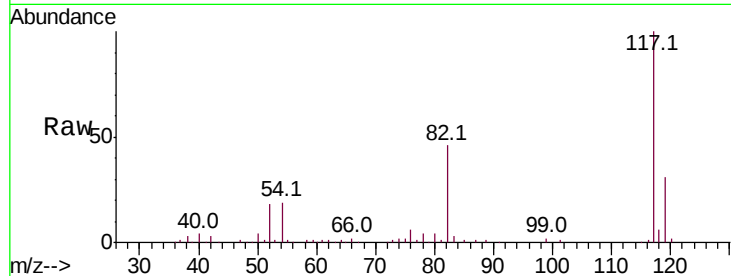




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

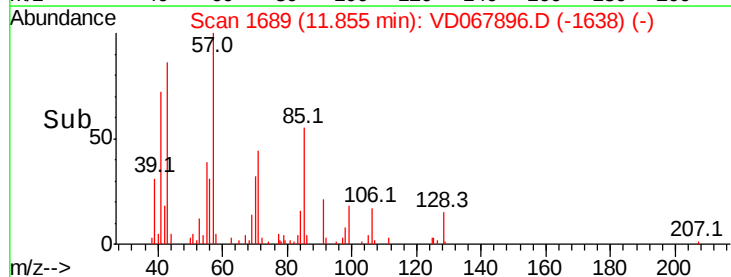
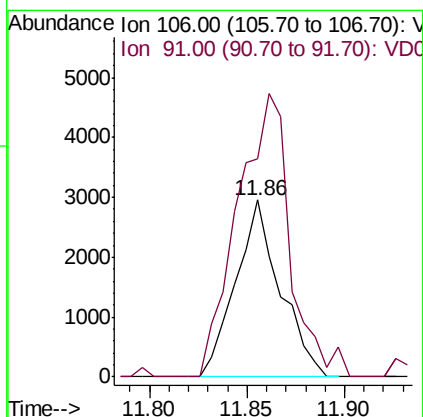
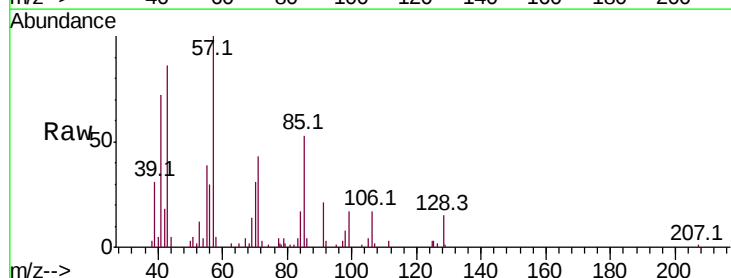
Instrument :
MSVOA_D
ClientSampleId :
HSD-SOIL

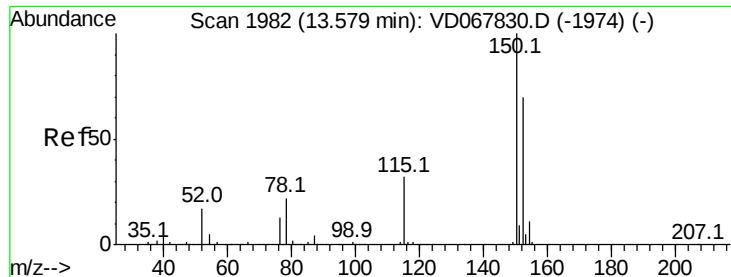
Tot Ion:117 Resp: 274313
Ion Ratio Lower Upper
117 100
82 46.5 40.6 60.8
119 31.5 25.1 37.7



#68
m/p-Xylenes
Concen: 1.228 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD067896.D
Acq: 07 Dec 2020 13:30

Tgt Ion:106 Resp: 4670
Ion Ratio Lower Upper
106 100
91 189.4 162.8 244.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

HSD-SOIL

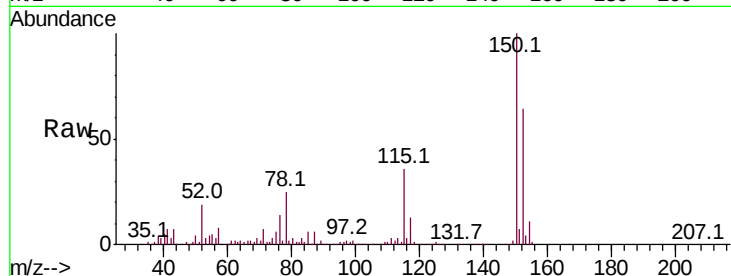
Tot Ion:152 Resp: 136329

Ion Ratio Lower Upper

152 100

115 59.1 29.1 87.4

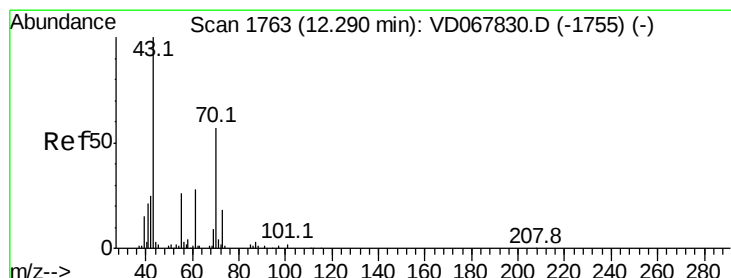
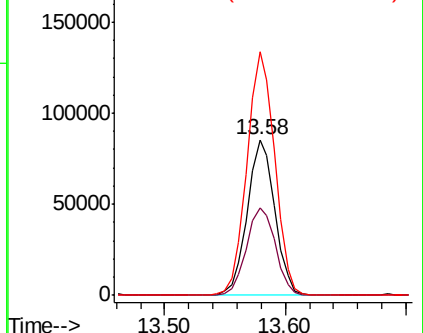
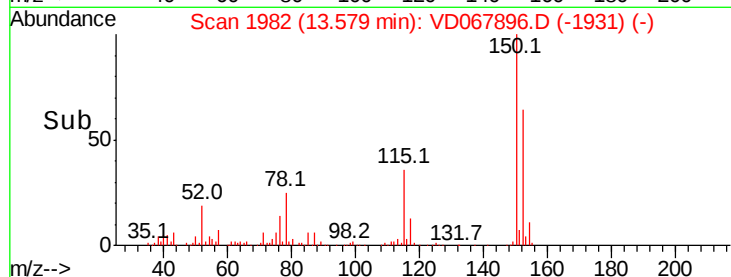
150 158.2 0.0 339.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 11.181 ug/l

RT: 12.28 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Tgt Ion: 43 Resp: 12966

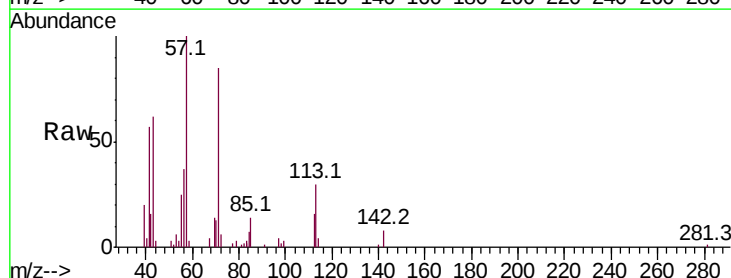
Ion Ratio Lower Upper

43 100

70 18.9 44.6 66.8#

55 45.1 22.2 33.2#

61 0.0 22.7 34.1#

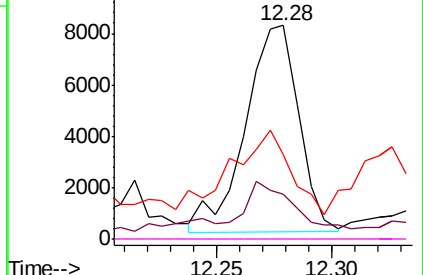
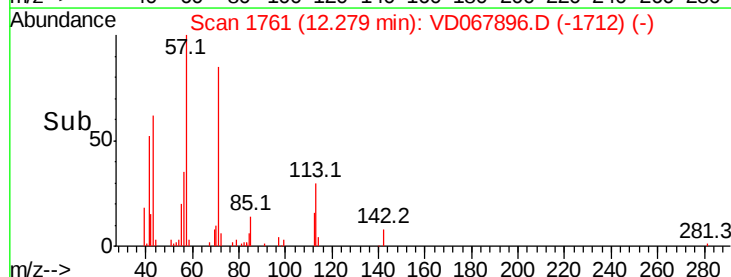


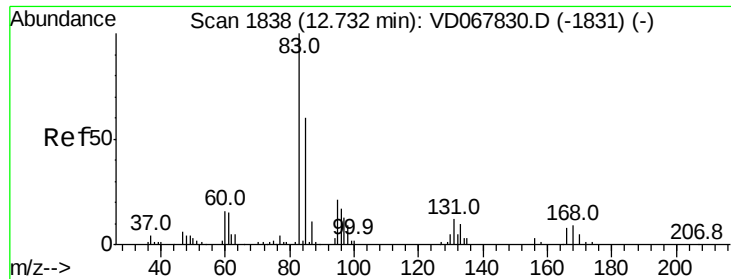
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2.226 ug/l

RT: 12.71 min Scan# 1834

Delta R.T. -0.02 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

HSD-SOIL

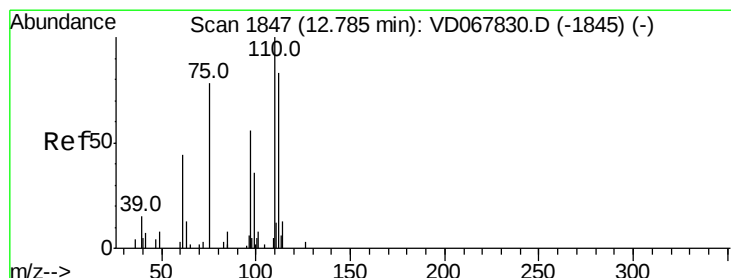
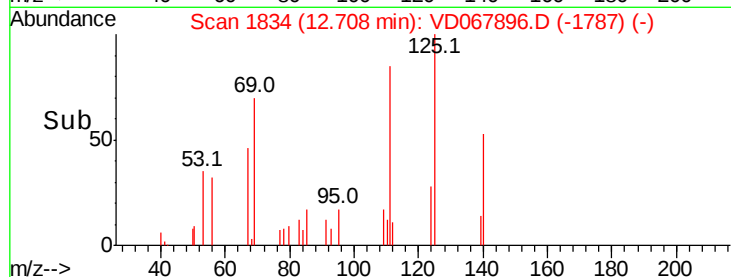
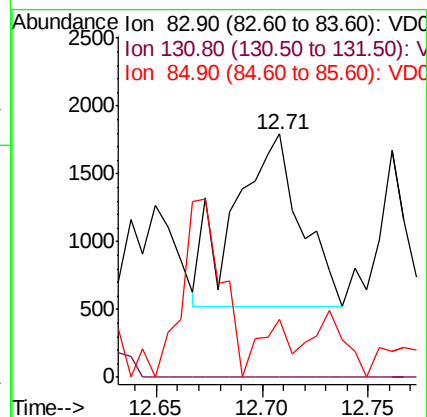
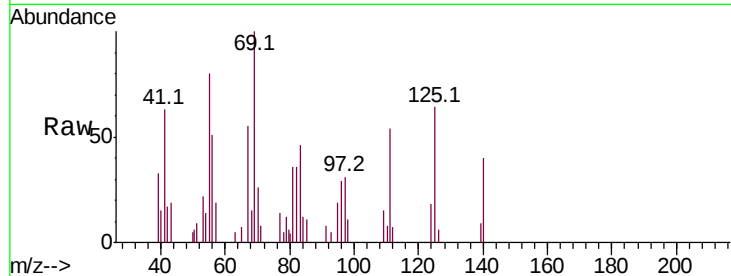
Tot Ion: 83 Resp: 2755

Ion Ratio Lower Upper

83 100

131 0.0 8.0 24.0#

85 0.0 31.7 95.1#



#76

1,2,3-Trichloropropane

Concen: 70.446 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067896.D

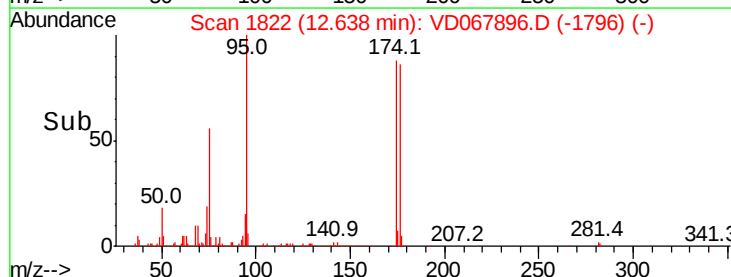
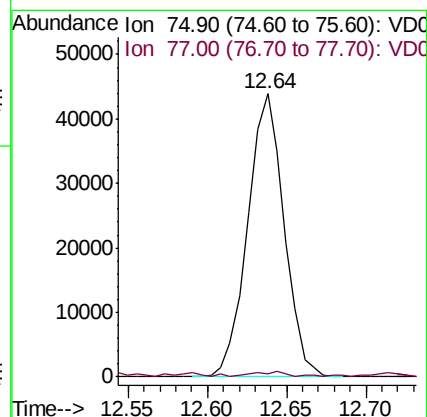
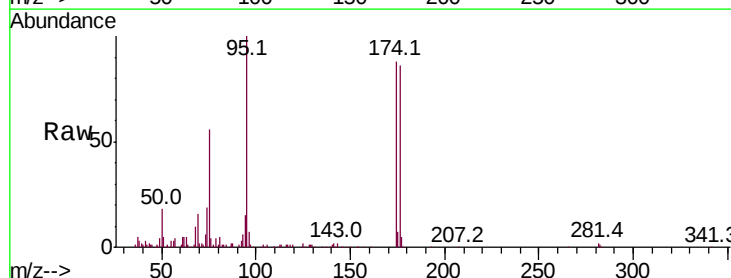
Acq: 07 Dec 2020 13:30

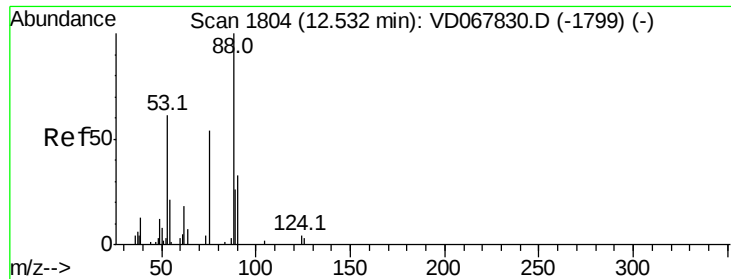
Tgt Ion: 75 Resp: 69938

Ion Ratio Lower Upper

75 100

77 1.6 175.9 527.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 168.513 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067896.D

Acq: 07 Dec 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

HSD-SOIL

Tot Ion: 75 Resp: 69938

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

89 0.0 41.0 61.6#

