

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102320\
 Data File : VD067376.D
 Acq On : 23 Oct 2020 12:31
 Operator : VA/SY
 Sample : L4486-01
 Misc : 5.93G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MS-SOIL

Quant Time: Oct 24 07:19:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	283192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	449062	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	439397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	210230	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	154321	54.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.78%	
35) Dibromofluoromethane	7.92	113	147623	49.40	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.80%	
50) Toluene-d8	10.34	98	536109	49.57	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	12.64	95	184539	49.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.14%	

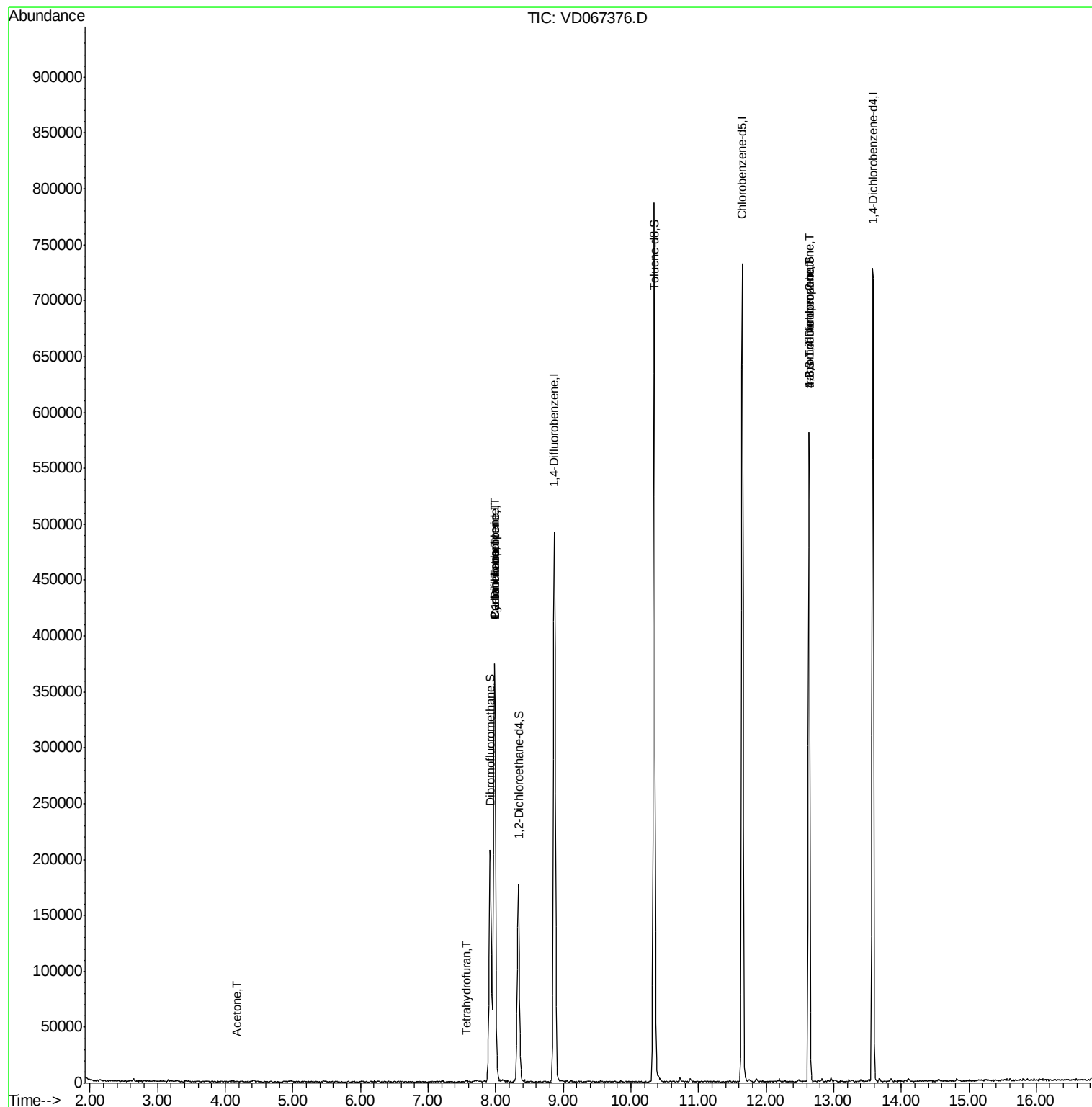
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	547	Below Cal		92
5) Bromomethane	2.77	94	479	Below Cal	#	3
16) Acetone	4.17	43	620	1.560	ug/l #	42
20) Methylene Chloride	4.99	84	1050	Below Cal	#	16
29) Tetrahydrofuran	7.58	42	758	3.011	ug/l #	78
31) Cyclohexane	7.98	56	5801	1.775	ug/l #	44
36) 1,1-Dichloropropene	7.98	75	21007	5.519	ug/l #	47
38) Carbon Tetrachloride	7.98	117	30199	6.208	ug/l #	16
76) 1,2,3-Trichloropropane	12.64	75	94133	64.603	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	94133	146.501	ug/l #	10

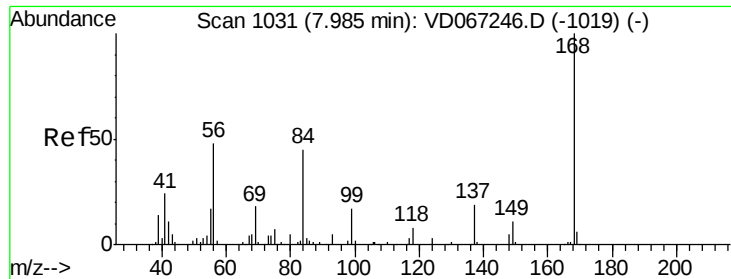
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Oct 19 19:13:29 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

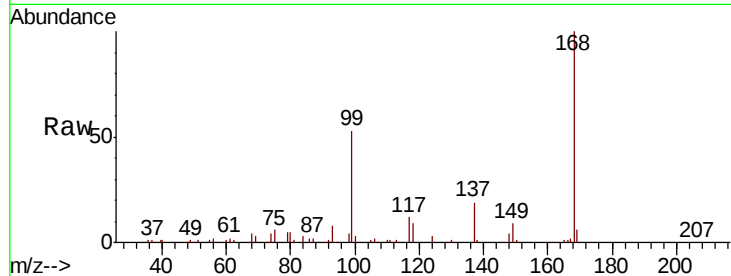
MS-SOIL

Tot Ion:168 Resp: 283192

Ion Ratio Lower Upper

168 100

99 53.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

100000

50000

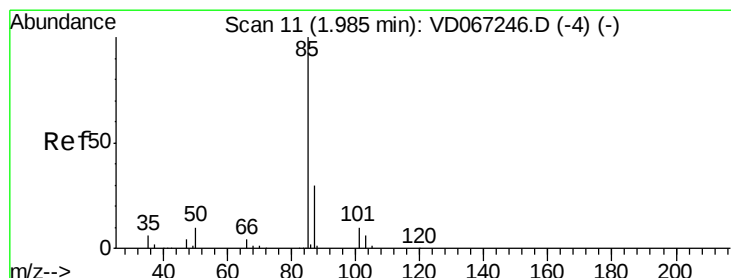
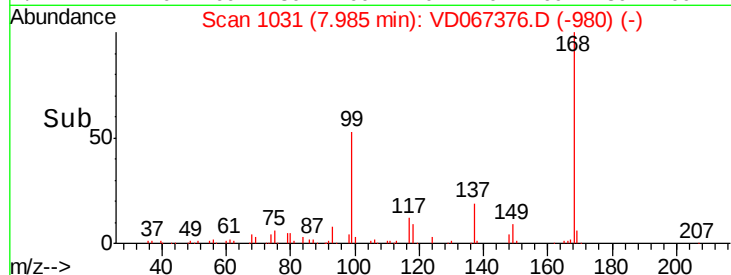
0

Time-->

7.90

8.00

8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067376.D

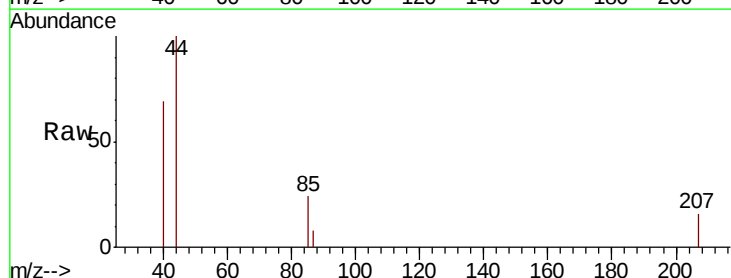
Acq: 23 Oct 2020 12:31

Tgt Ion: 85 Resp: 547

Ion Ratio Lower Upper

85 100

87 34.8 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

500

400

300

200

100

0

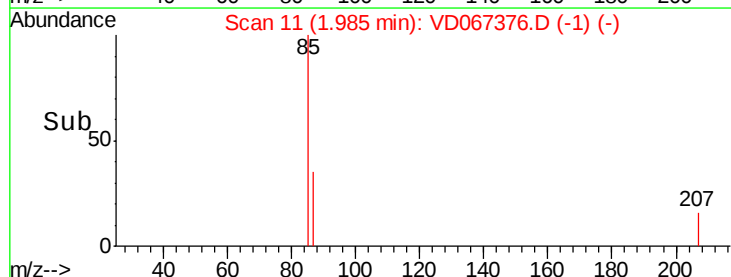
Time-->

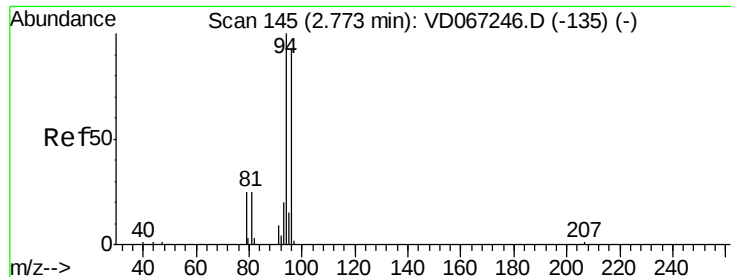
1.96

1.98

2.00

2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

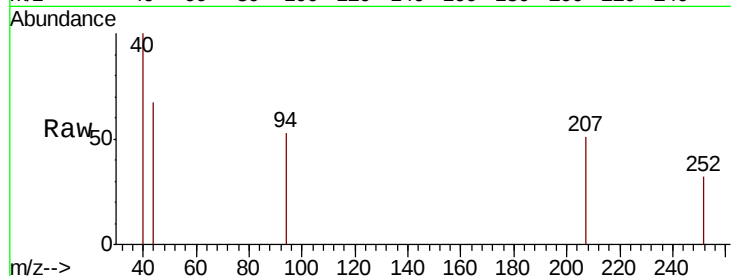
MS-SOIL

Tot Ion: 94 Resp: 479

Ion Ratio Lower Upper

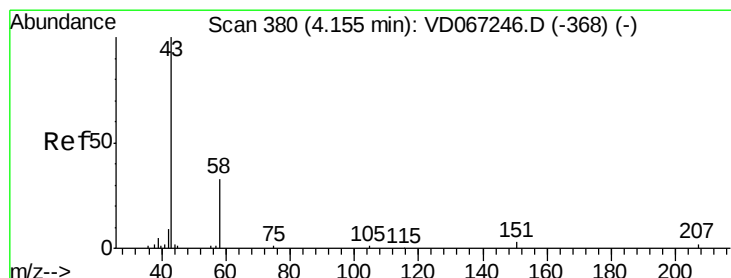
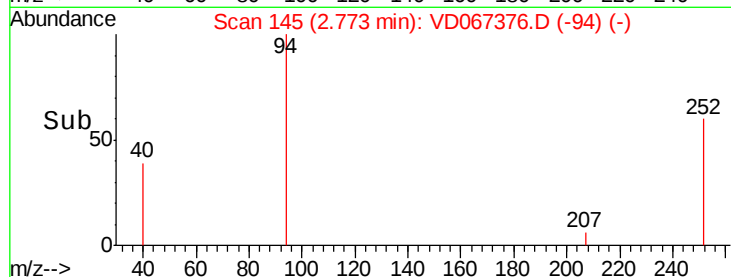
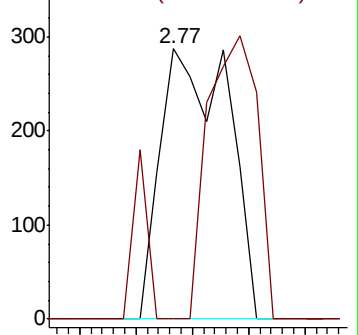
94 100

96 0.0 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#16

Acetone

Concen: 1.560 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.02 min

Lab File: VD067376.D

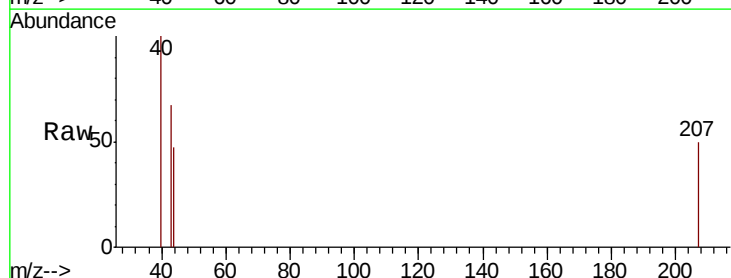
Acq: 23 Oct 2020 12:31

Tgt Ion: 43 Resp: 620

Ion Ratio Lower Upper

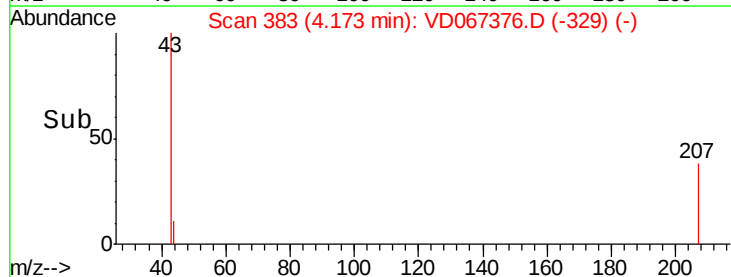
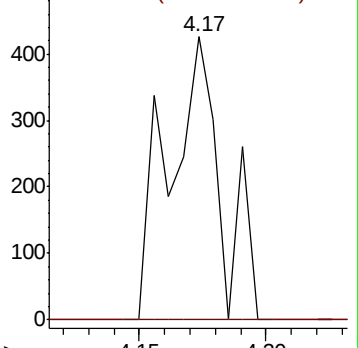
43 100

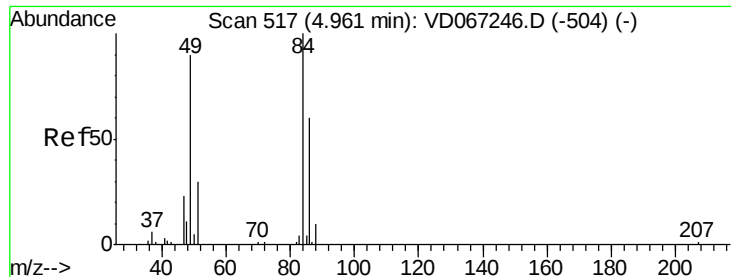
58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.99 min Scan# 522

Delta R.T. 0.03 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

MS-SOIL

Tot Ion: 84 Resp: 1050

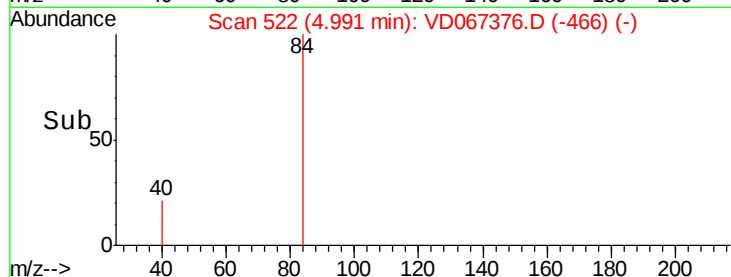
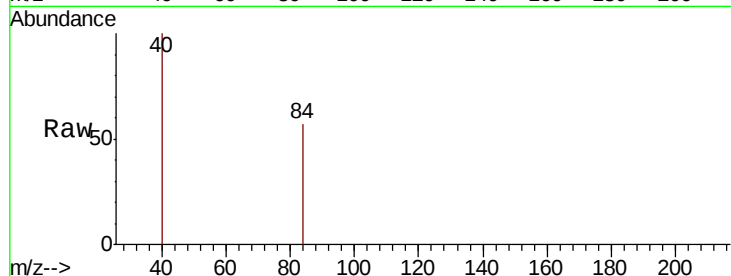
Ion Ratio Lower Upper

84 100

49 0.0 72.2 108.2#

51 0.0 23.8 35.8#

86 0.0 48.2 72.4#

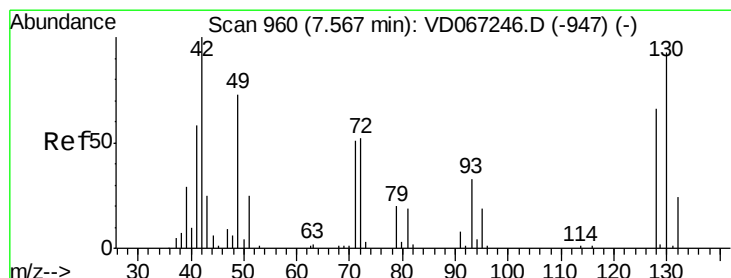
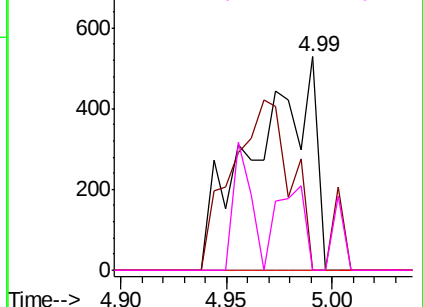


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#29

Tetrahydrofuran

Concen: 3.011 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

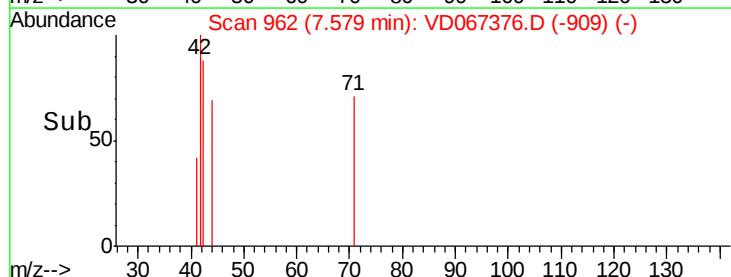
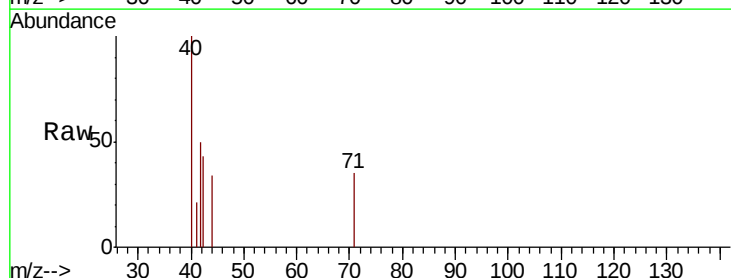
Tgt Ion: 42 Resp: 758

Ion Ratio Lower Upper

42 100

72 67.5 43.2 64.8#

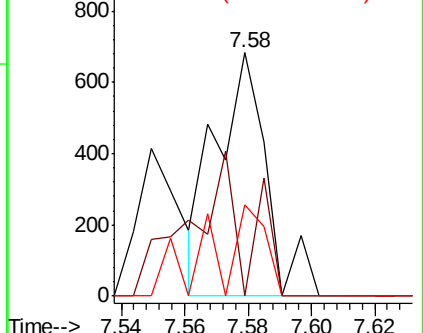
71 31.9 39.4 59.0#

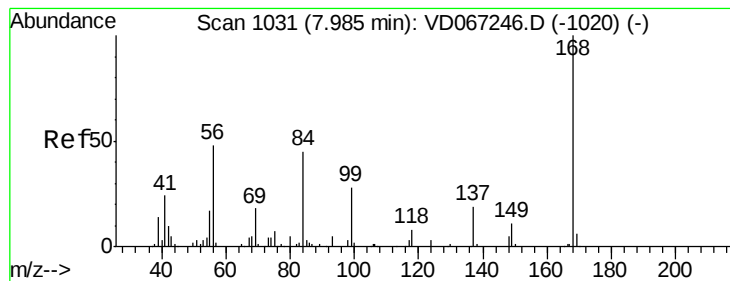


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.775 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

MS-SOIL

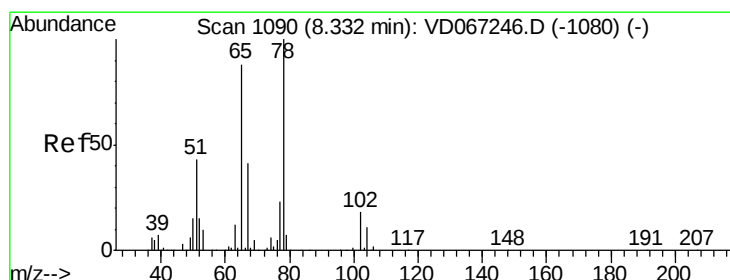
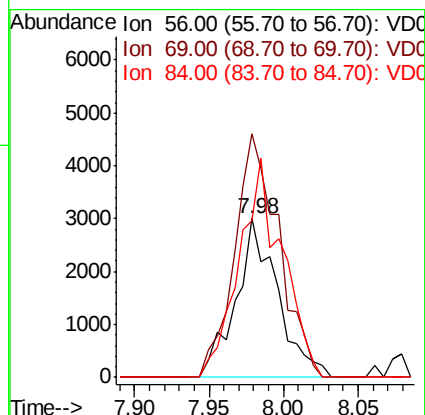
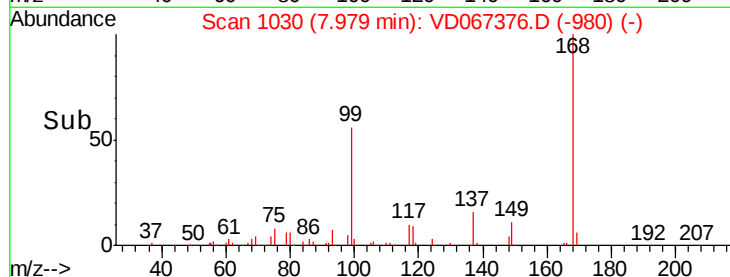
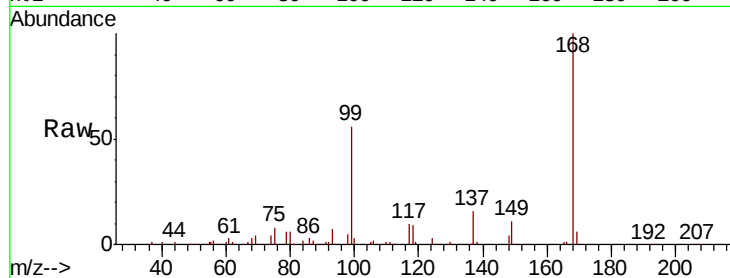
Tot Ion: 56 Resp: 5801

Ion Ratio Lower Upper

56 100

69 153.3 29.8 44.6#

84 98.5 76.6 114.8



#33

1,2-Dichloroethane-d4

Concen: 54.393 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD067376.D

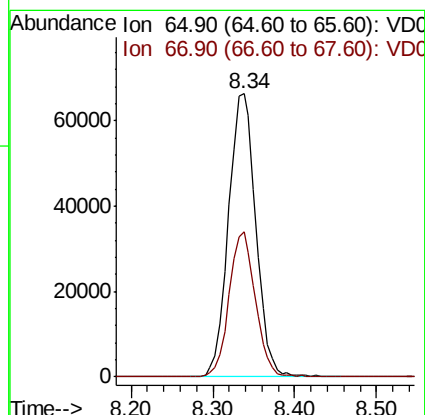
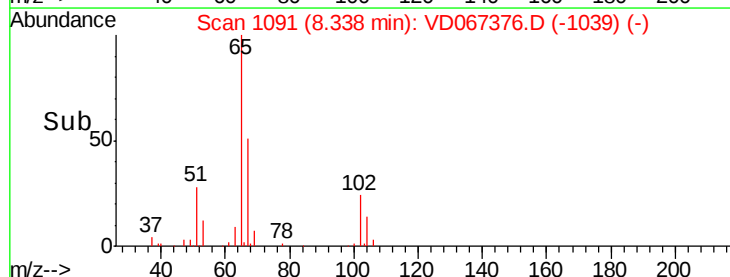
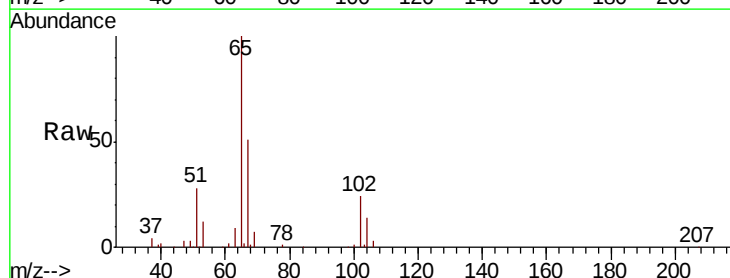
Acq: 23 Oct 2020 12:31

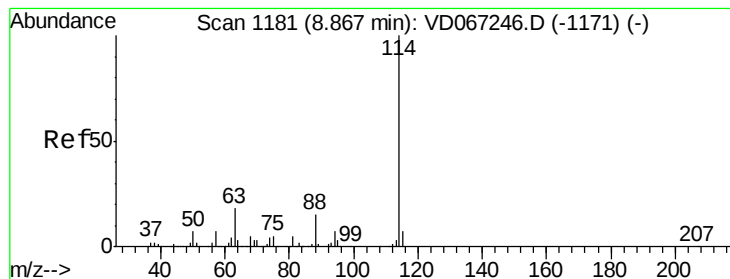
Tgt Ion: 65 Resp: 154321

Ion Ratio Lower Upper

65 100

67 49.1 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

MS-SOIL

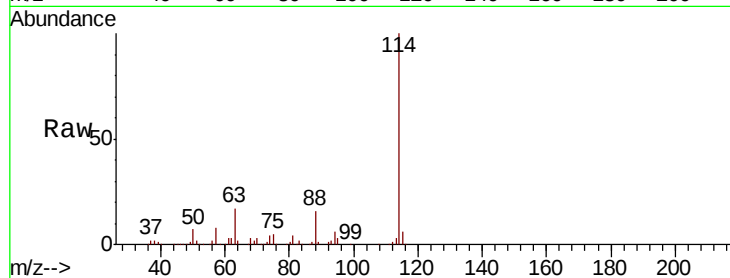
Tot Ion:114 Resp: 449062

Ion Ratio Lower Upper

114 100

63 16.7 0.0 35.0

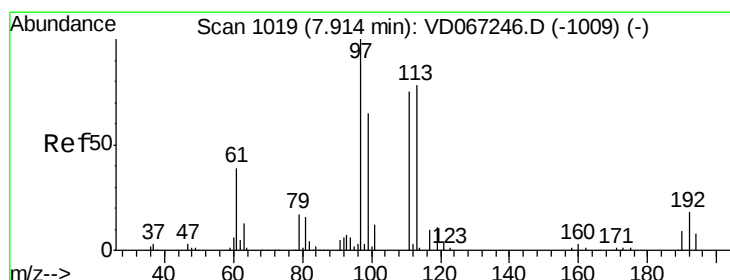
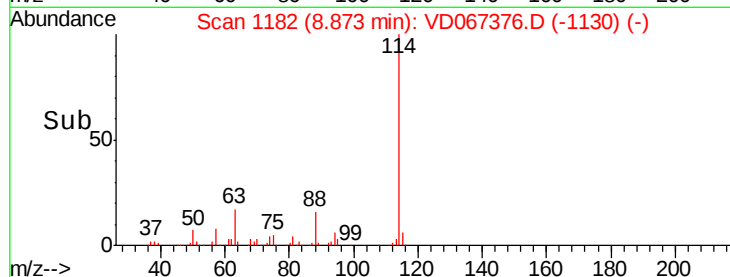
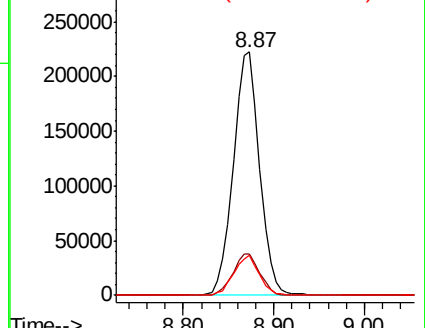
88 16.2 0.0 30.6



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



#35

Dibromofluoromethane

Concen: 49.397 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

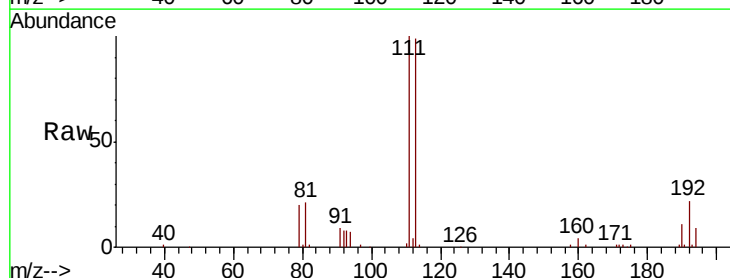
Tgt Ion:113 Resp: 147623

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

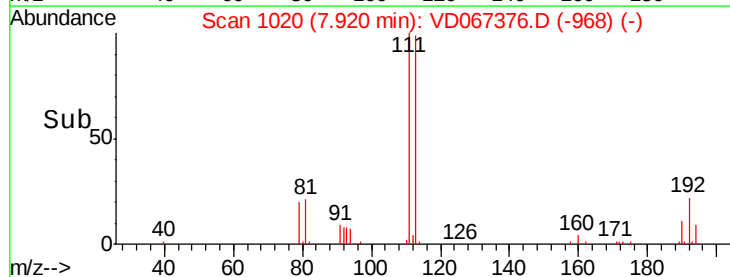
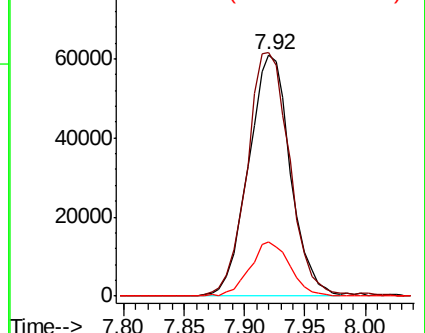
192 21.4 17.0 25.4

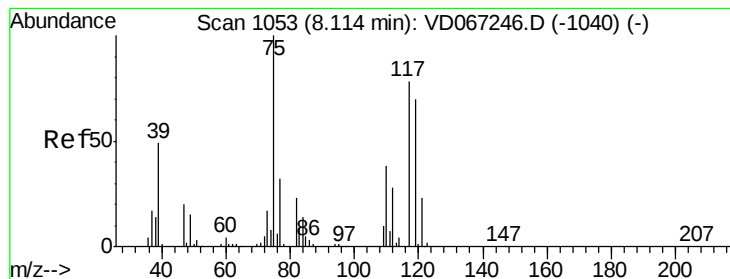


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.519 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

MS-SOIL

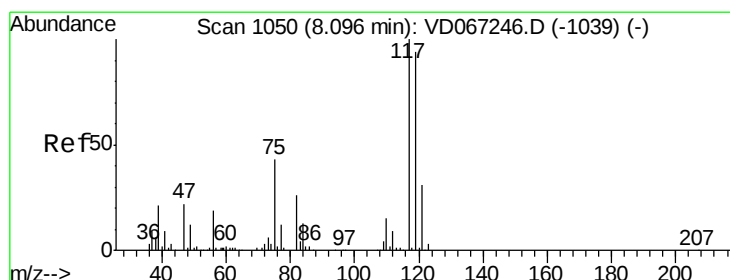
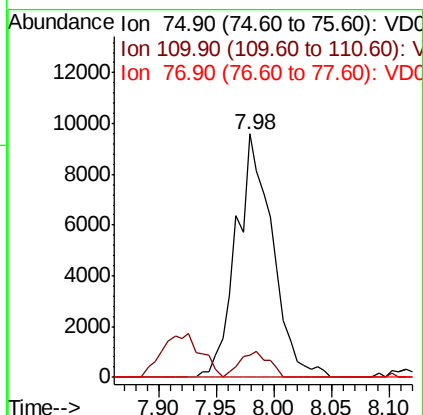
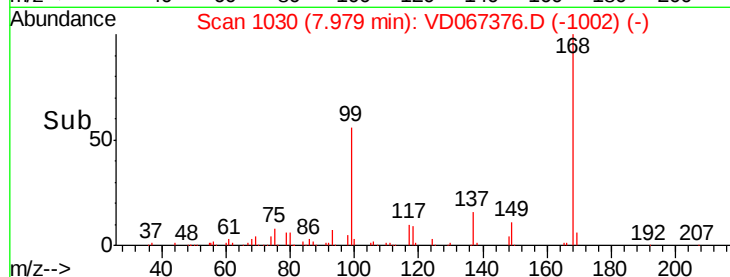
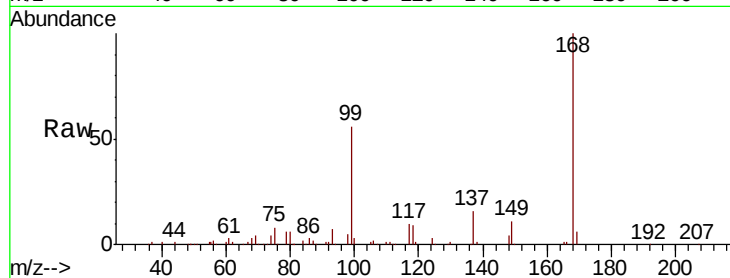
Tot Ion: 75 Resp: 21007

Ion Ratio Lower Upper

75 100

110 8.6 19.6 58.7#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 6.208 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

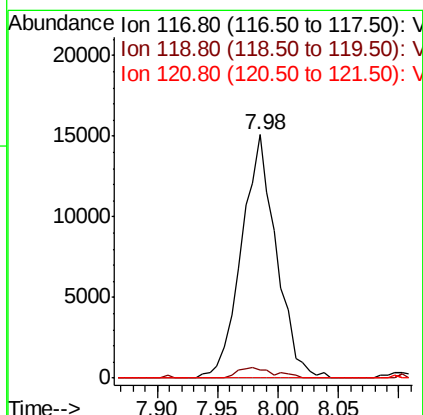
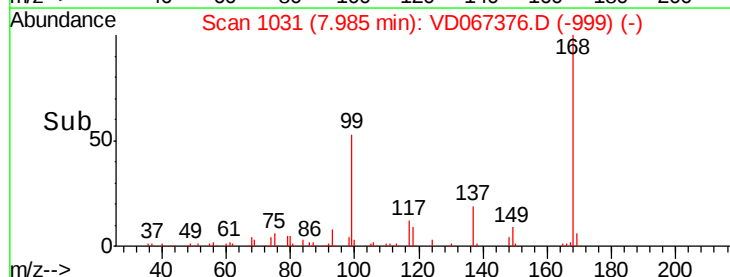
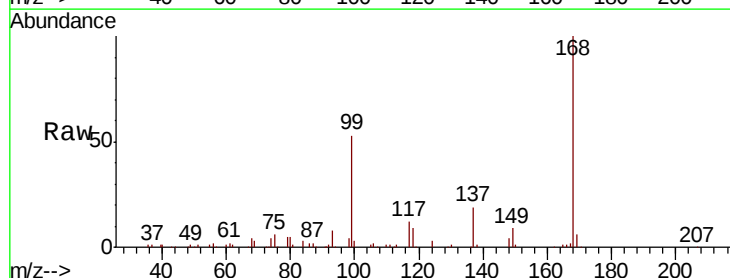
Tgt Ion: 117 Resp: 30199

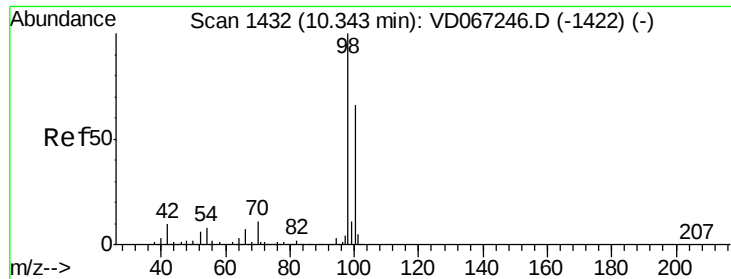
Ion Ratio Lower Upper

117 100

119 3.5 75.0 112.4#

121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 49.570 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

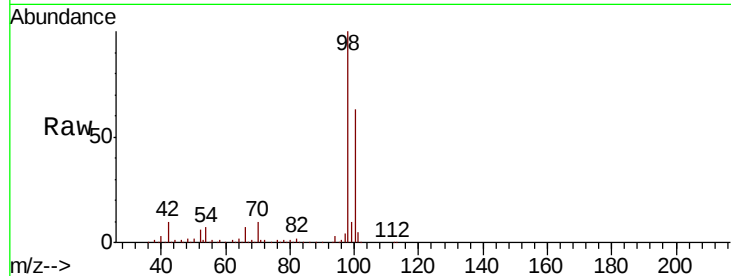
MS-SOIL

Tot Ion: 98 Resp: 536109

Ion Ratio Lower Upper

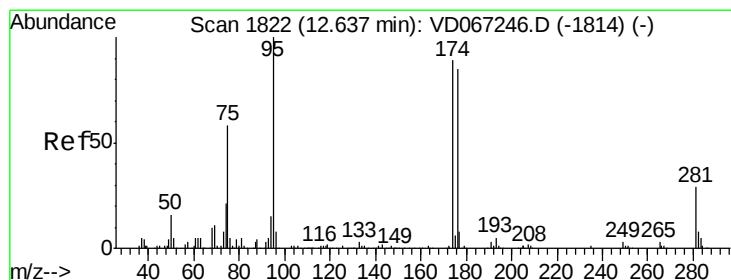
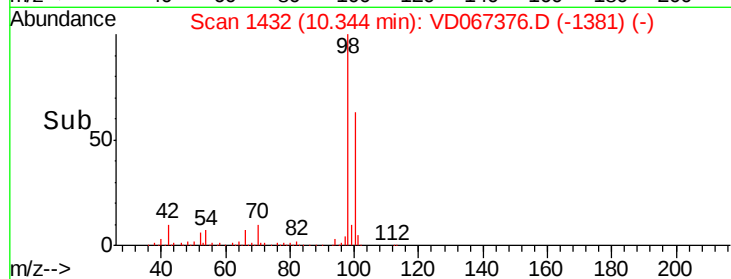
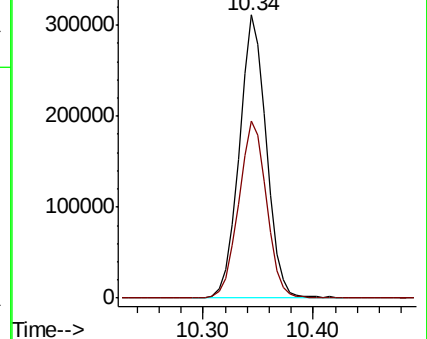
98 100

100 64.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 49.071 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

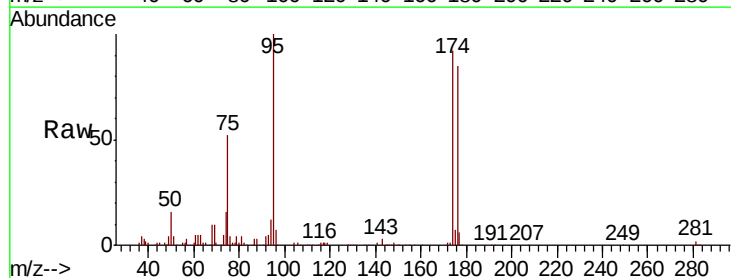
Tgt Ion: 95 Resp: 184539

Ion Ratio Lower Upper

95 100

174 88.1 0.0 175.2

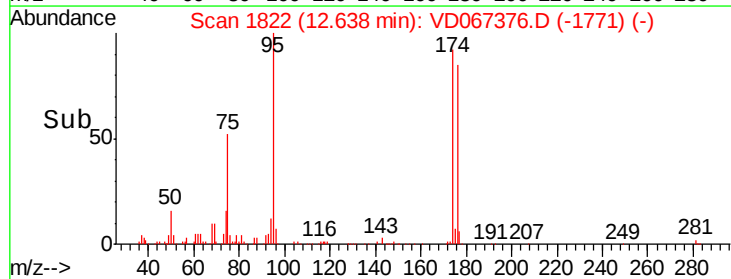
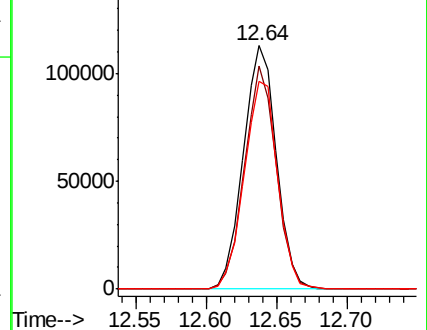
176 86.4 0.0 168.6

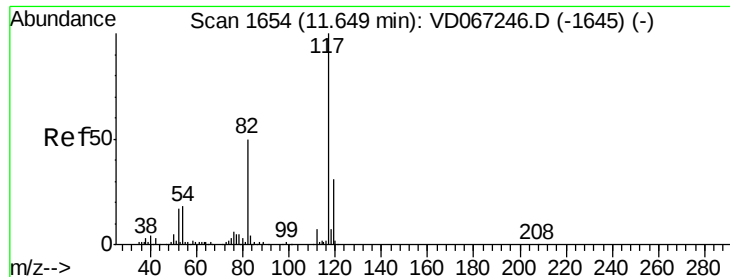


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

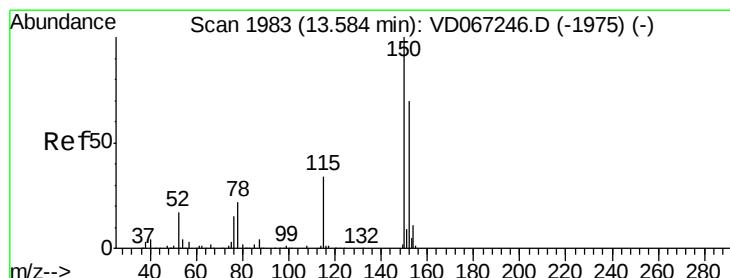
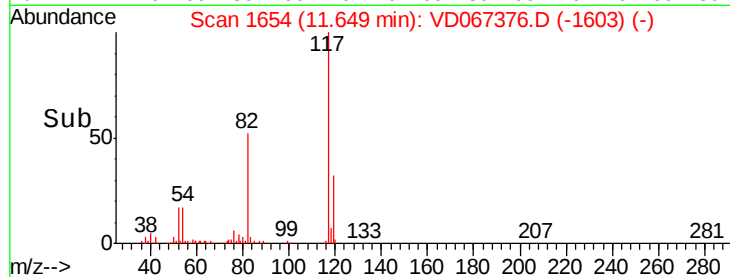
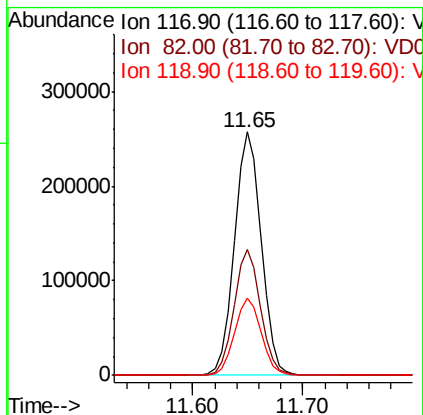
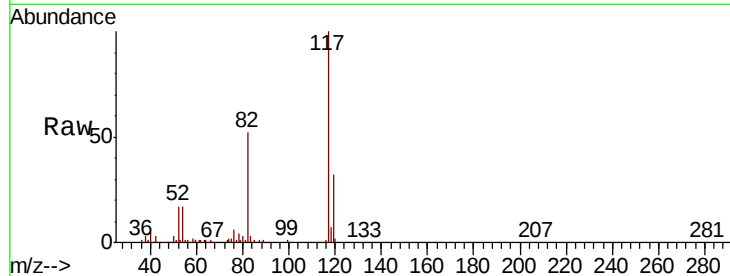




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067376.D
Acq: 23 Oct 2020 12:31

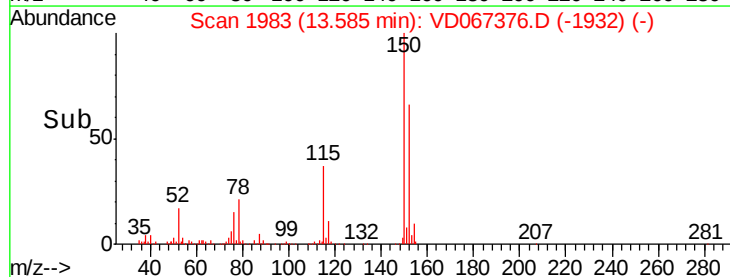
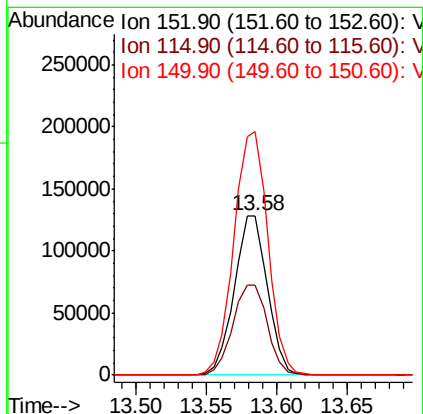
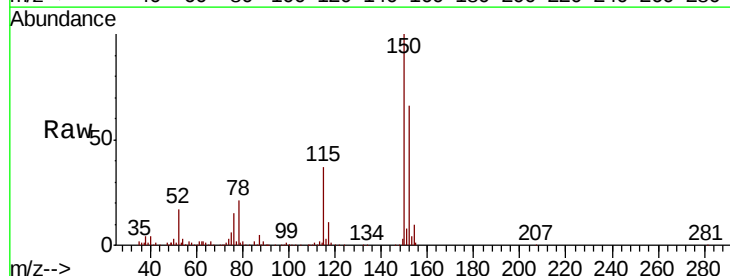
Instrument :
MSVOA_D
ClientSampleId :
MS-SOIL

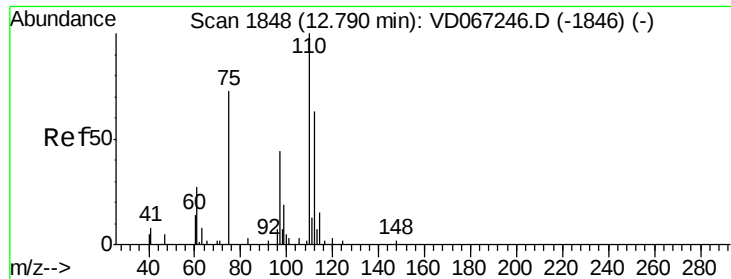
Tot Ion:117 Resp: 439397
Ion Ratio Lower Upper
117 100
82 51.5 39.9 59.9
119 31.6 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD067376.D
Acq: 23 Oct 2020 12:31

Tgt Ion:152 Resp: 210230
Ion Ratio Lower Upper
152 100
115 58.9 29.3 87.9
150 156.7 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 64.603 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Instrument :

MSVOA_D

ClientSampleId :

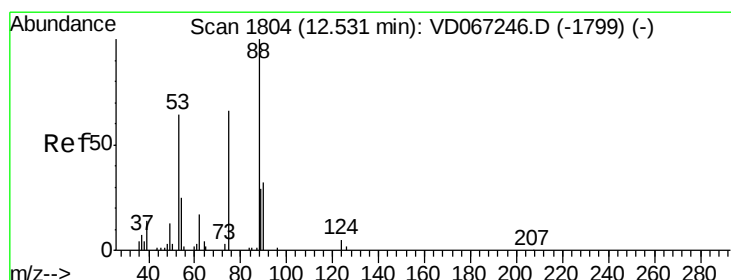
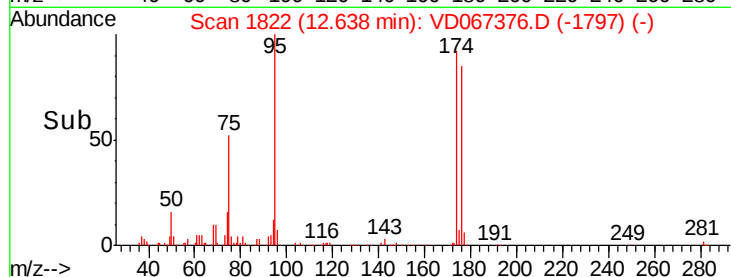
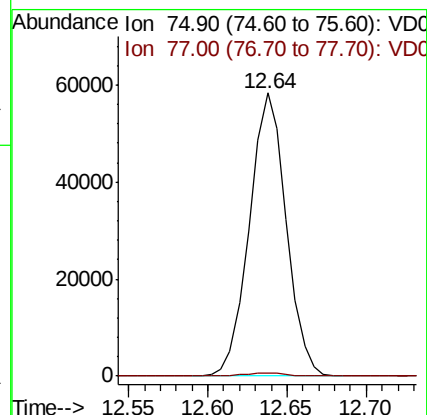
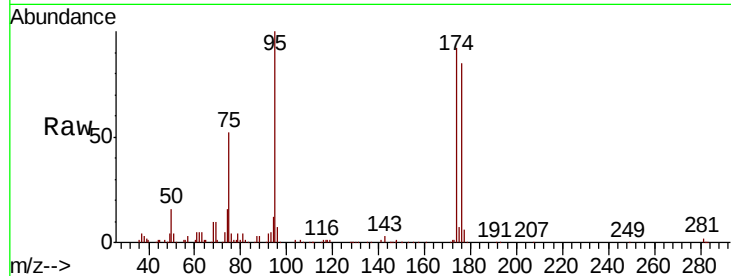
MS-SOIL

Tot Ion: 75 Resp: 94133

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 146.501 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067376.D

Acq: 23 Oct 2020 12:31

Tgt Ion: 75 Resp: 94133

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#

