

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
 Data File : VD067000.D
 Acq On : 01 Oct 2020 18:42
 Operator : VA/SY
 Sample : L4199-01
 Misc : 6.60G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 11940

Quant Time: Oct 02 00:41:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	468199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	791246	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	733986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	331837	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	236224	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	
35) Dibromofluoromethane	7.91	113	254507	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	10.34	98	936668	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.63	95	304796	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	

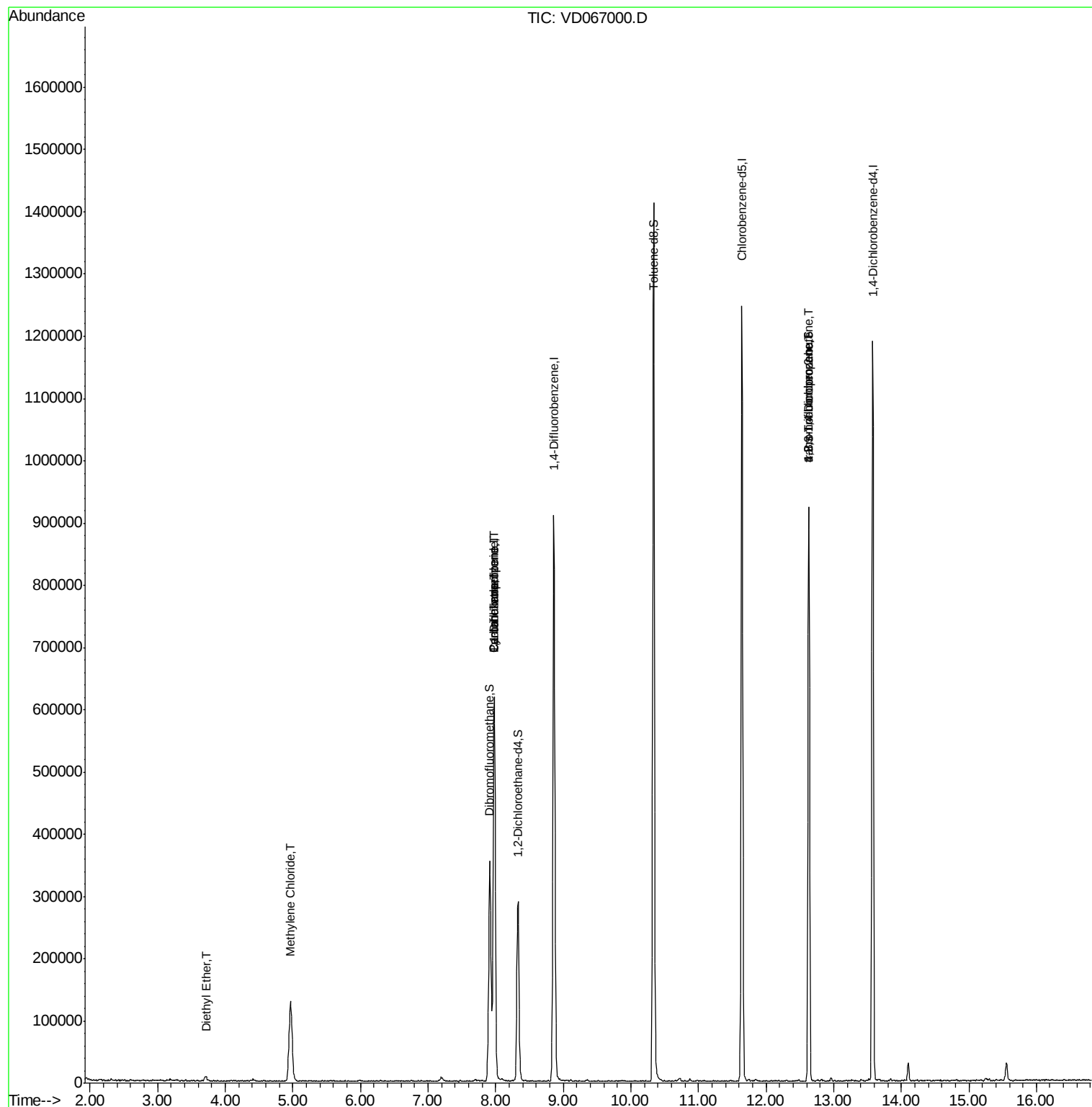
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.98	85	694	Below Cal	#	40
5) Bromomethane	2.77	94	149	Below Cal	#	3
8) Diethyl Ether	3.71	74	4166	2.022	ug/l	61
11) Tert butyl alcohol	5.23	59	632	Below Cal	#	72
20) Methylene Chloride	4.97	84	106142	16.914	ug/l	96
26) 2,2-Dichloropropane	7.22	77	877	Below Cal	#	53
31) Cyclohexane	7.98	56	9900	1.462	ug/l	20
36) 1,1-Dichloropropene	7.98	75	36005	4.882	ug/l	50
38) Carbon Tetrachloride	7.98	117	48504	6.078	ug/l	16
76) 1,2,3-Trichloropropane	12.63	75	151988	52.584	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.63	75	151988	131.097	ug/l	12

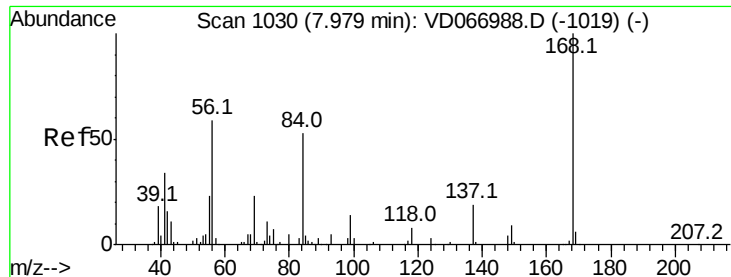
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

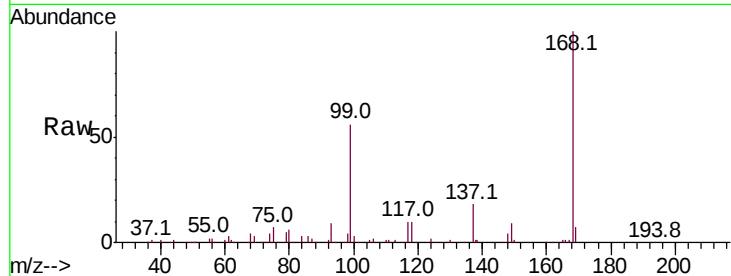
11940

Tot Ion:168 Resp: 468199

Ion Ratio Lower Upper

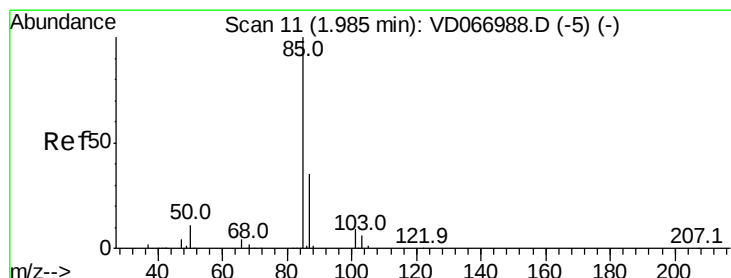
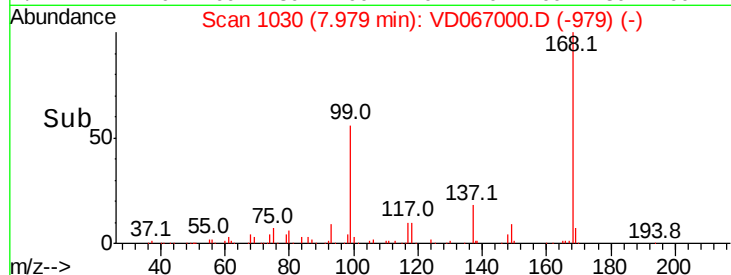
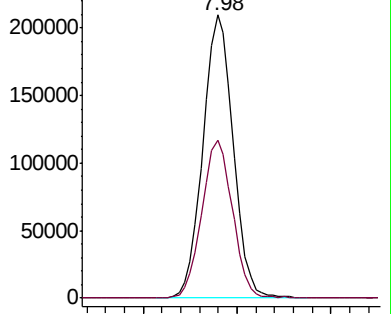
168 100

99 55.9 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD067000.D

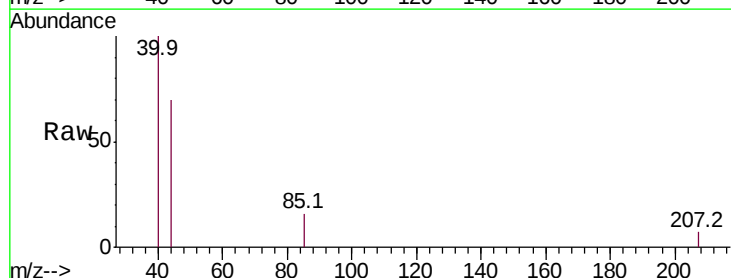
Acq: 01 Oct 2020 18:42

Tgt Ion: 85 Resp: 694

Ion Ratio Lower Upper

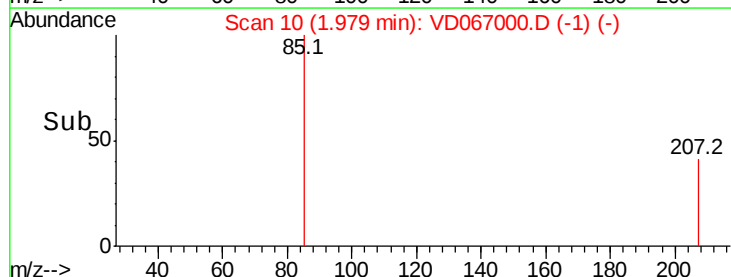
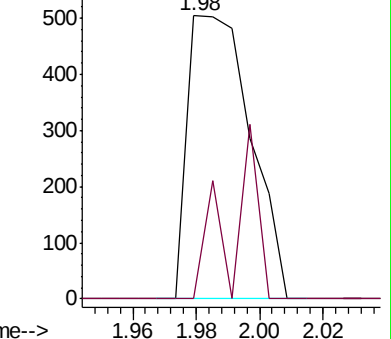
85 100

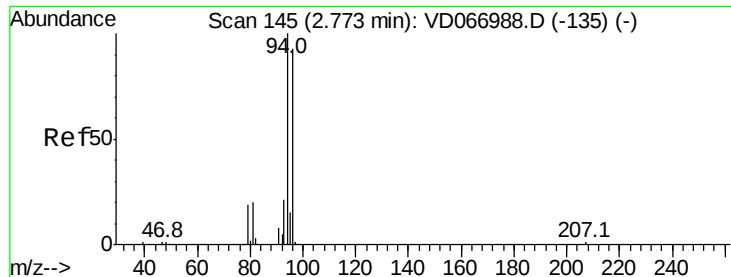
87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

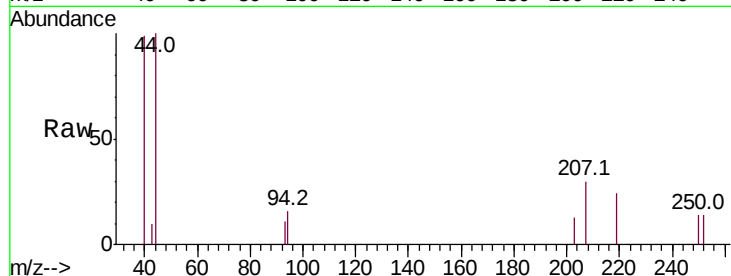
11940

Tot Ion: 94 Resp: 149

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#

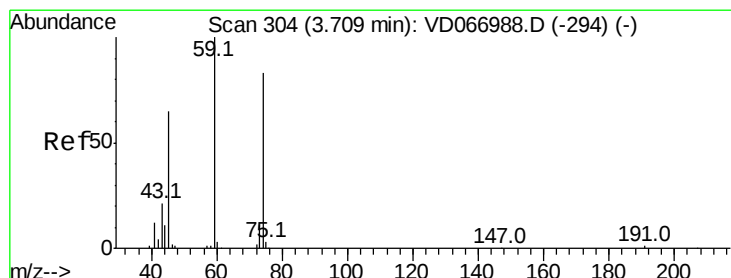
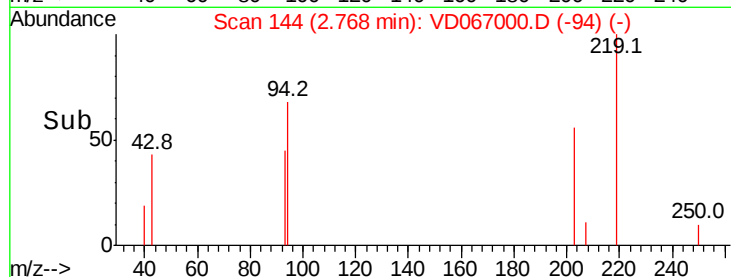


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

Time-->



#8

Diethyl Ether

Concen: 2.022 ug/l

RT: 3.71 min Scan# 305

Delta R.T. 0.01 min

Lab File: VD067000.D

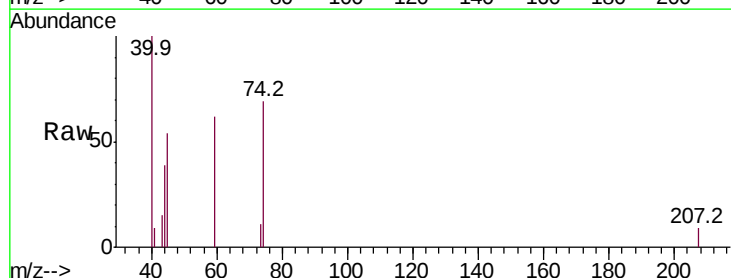
Acq: 01 Oct 2020 18:42

Tgt Ion: 74 Resp: 4166

Ion Ratio Lower Upper

74 100

45 50.4 43.1 129.3

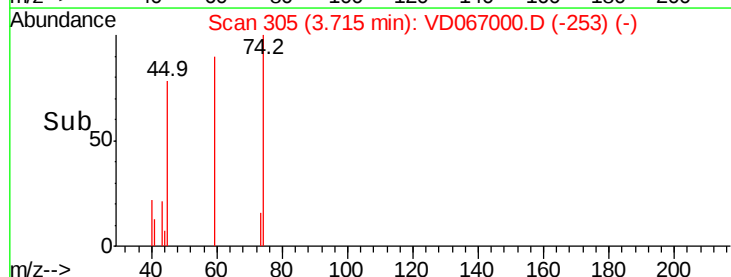


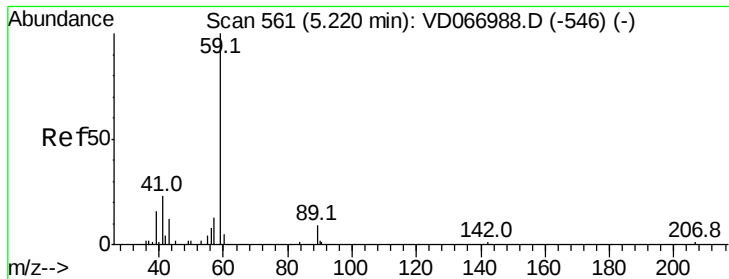
Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

3.71

Time-->



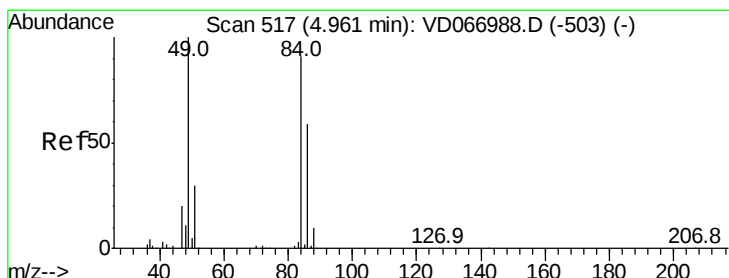
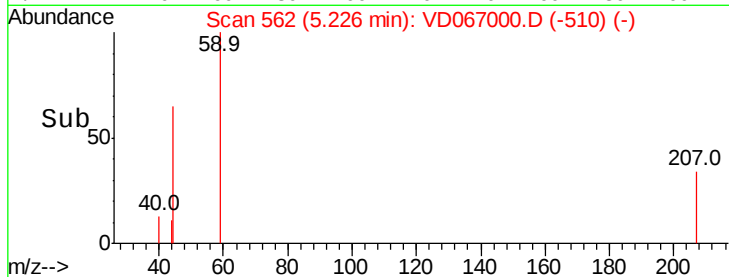
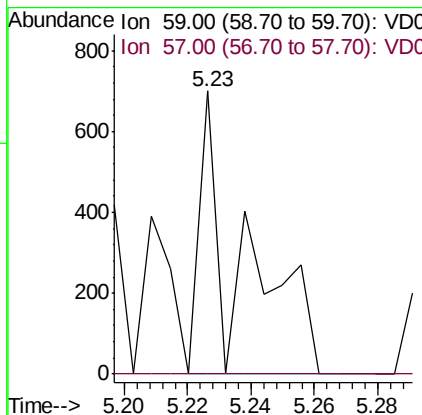
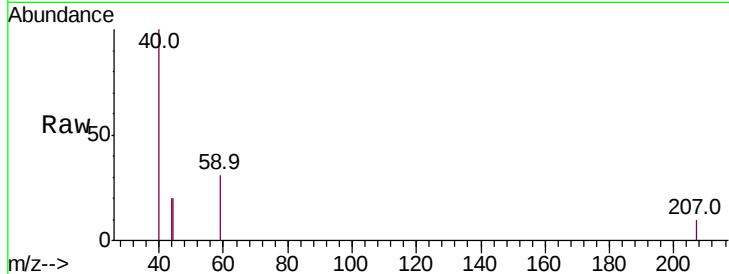


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 562
 Delta R.T. 0.01 min
 Lab File: VD067000.D
 Acq: 01 Oct 2020 18:42

Instrument :
 MSVOA_D
 ClientSampleId :
 11940

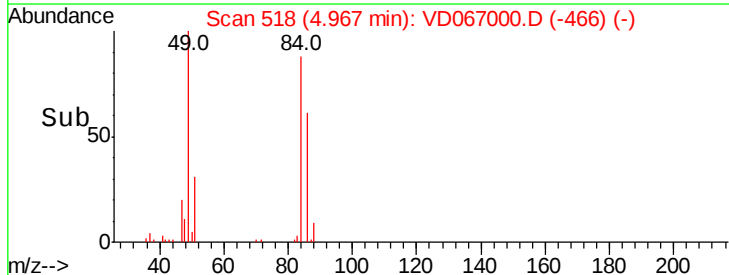
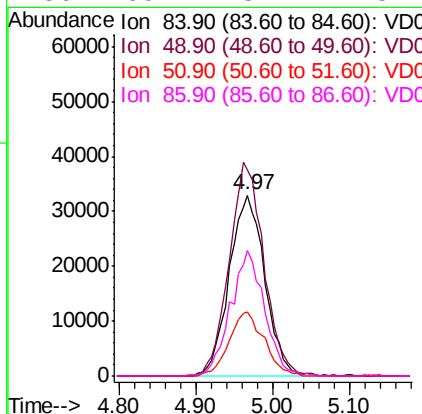
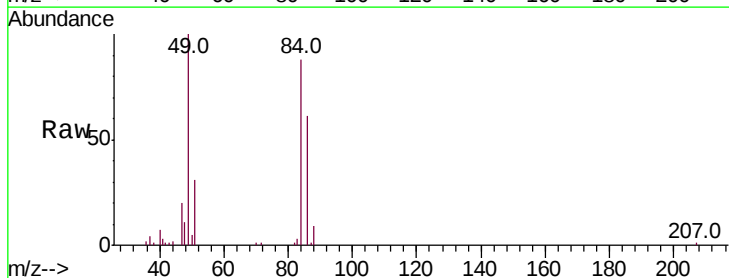
Tot Ion: 59 Resp: 632
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

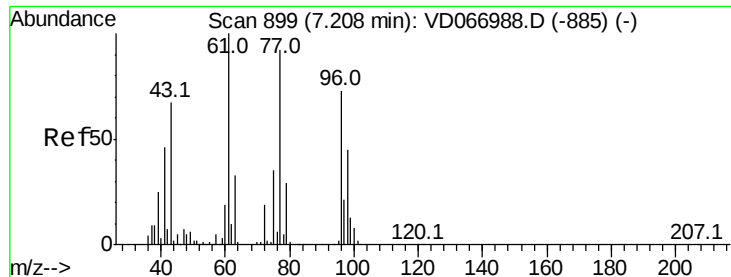


#20

Methylene Chloride
 Concen: 16.914 ug/l
 RT: 4.97 min Scan# 518
 Delta R.T. 0.01 min
 Lab File: VD067000.D
 Acq: 01 Oct 2020 18:42

Tgt Ion: 84 Resp: 106142
 Ion Ratio Lower Upper
 84 100
 49 113.5 88.2 132.2
 51 35.6 26.6 39.8
 86 69.2 52.1 78.1





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

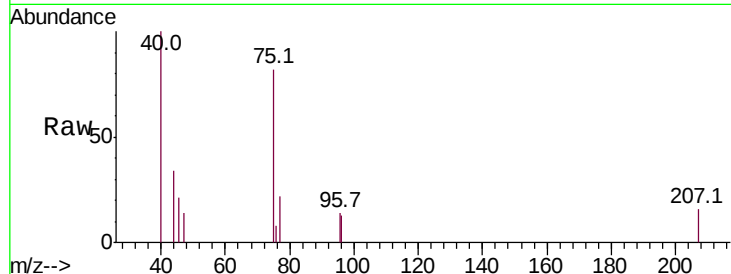
Instrument :
MSVOA_D
ClientSampled :
11940

Tot Ion: 77 Resp: 877

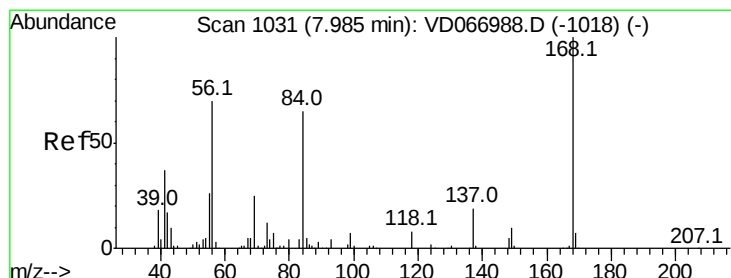
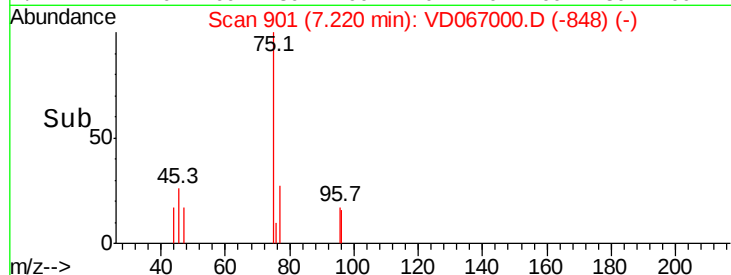
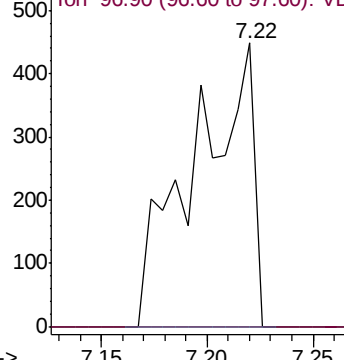
Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC
Ion 96.90 (96.60 to 97.60): VDC



#31

Cyclohexane

Concen: 1.462 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

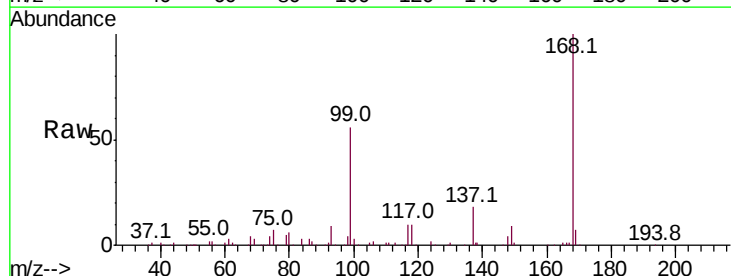
Tgt Ion: 56 Resp: 9900

Ion Ratio Lower Upper

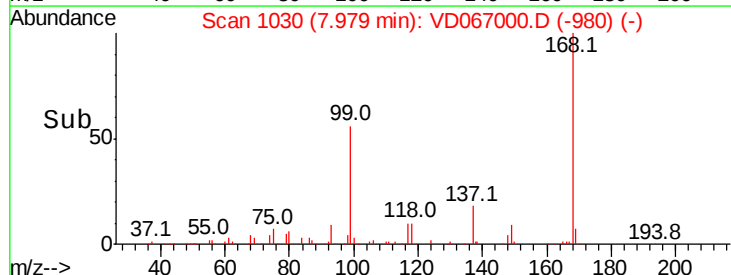
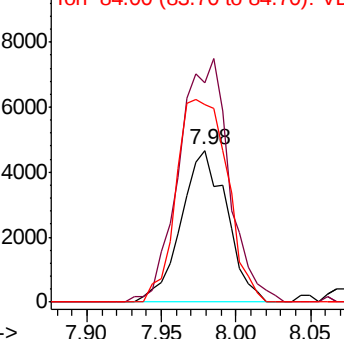
56 100

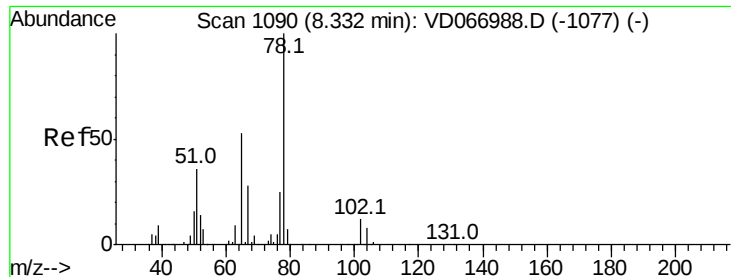
69 144.8 29.0 43.6#

84 130.4 74.2 111.2#



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: 52.382 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

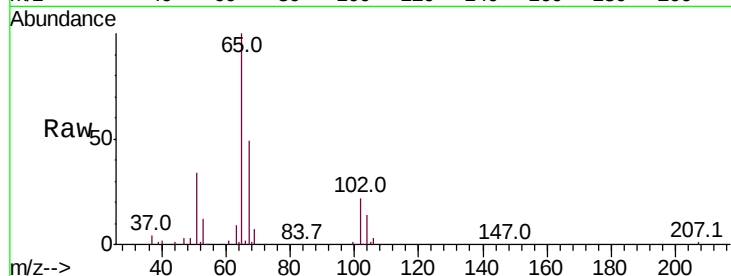
11940

Tot Ion: 65 Resp: 236224

Ion Ratio Lower Upper

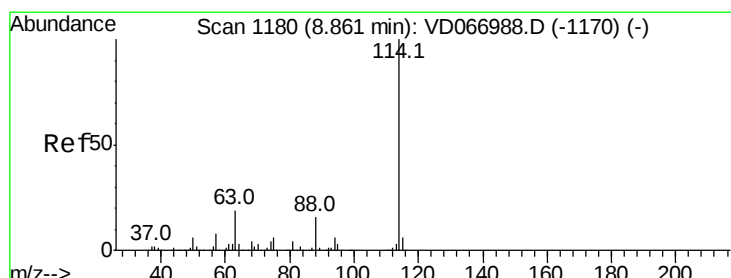
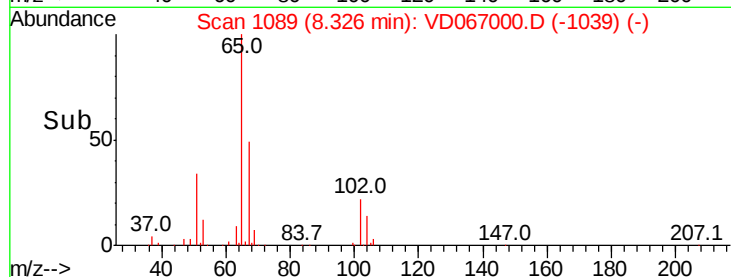
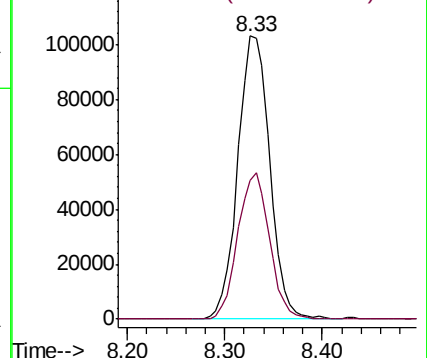
65 100

67 51.1 0.0 106.8



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: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

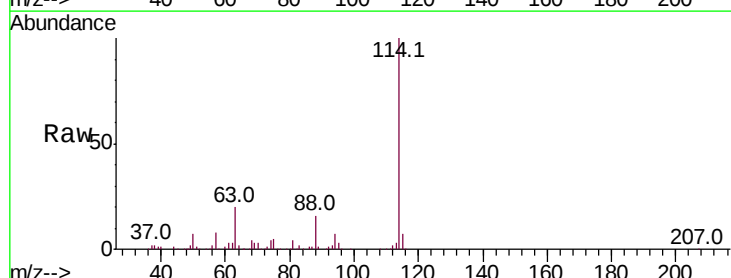
Tgt Ion: 114 Resp: 791246

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

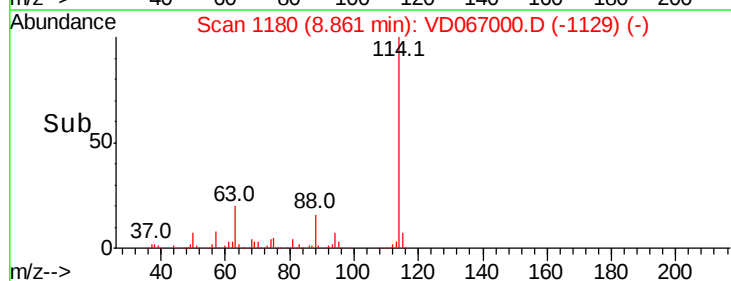
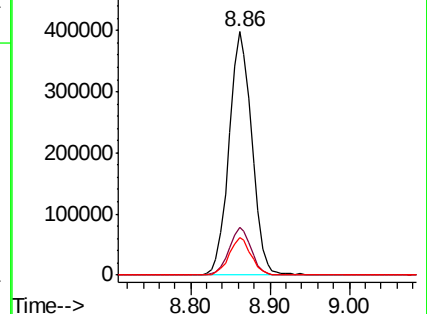
88 15.7 0.0 31.2

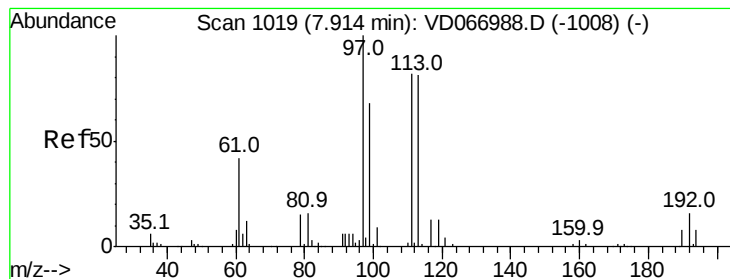


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 49.131 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleID :

11940

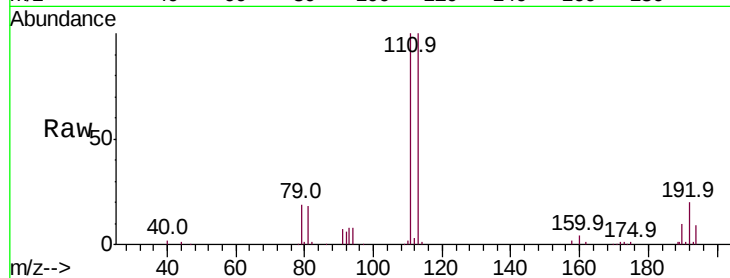
Tot Ion:113 Resp: 254507

Ion Ratio Lower Upper

113 100

111 103.6 83.0 124.4

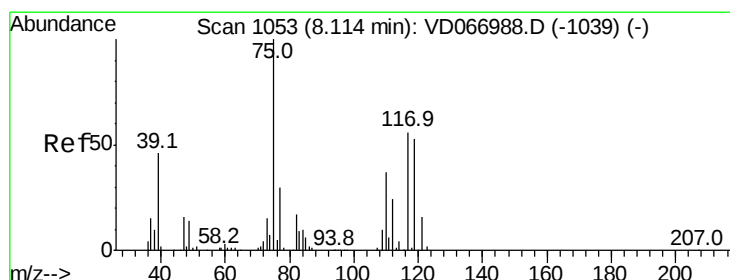
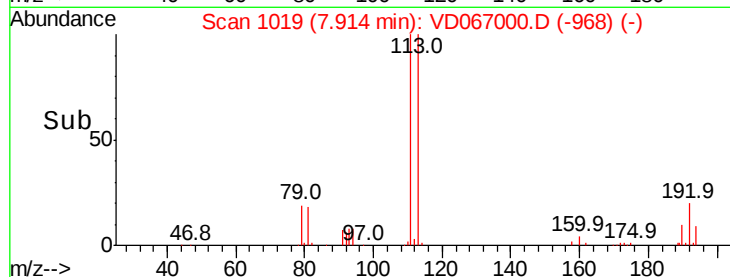
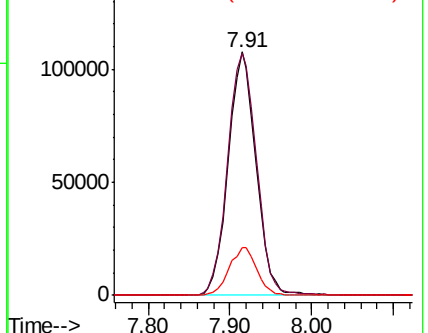
192 19.7 15.5 23.3



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: 4.882 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

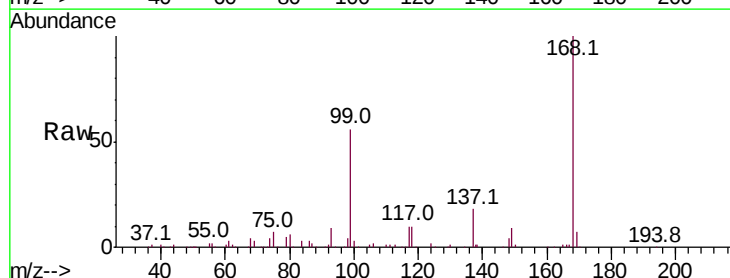
Tgt Ion: 75 Resp: 36005

Ion Ratio Lower Upper

75 100

110 9.7 18.4 55.0#

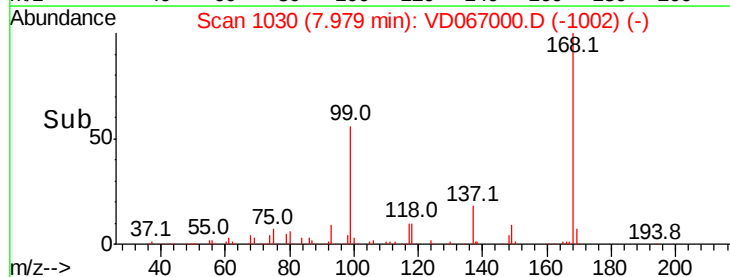
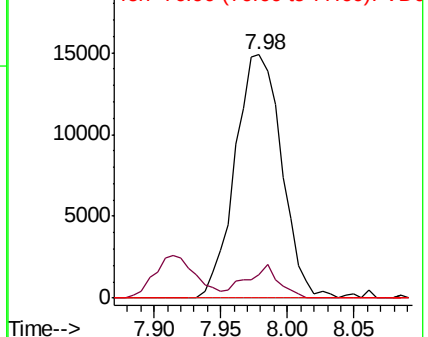
77 0.0 24.8 37.2#

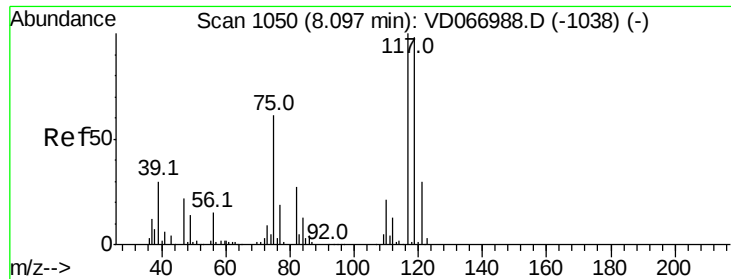


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

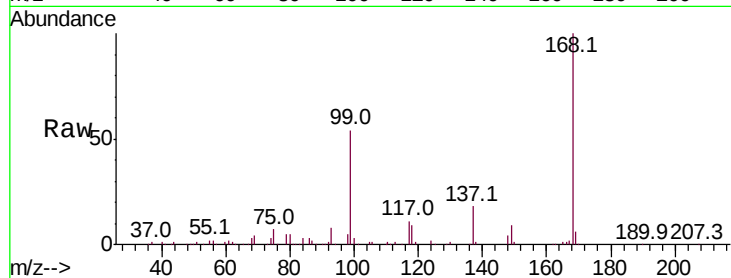




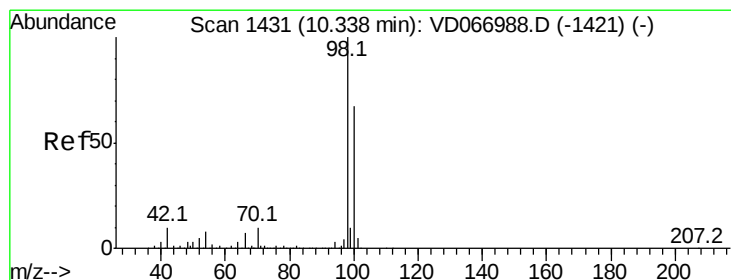
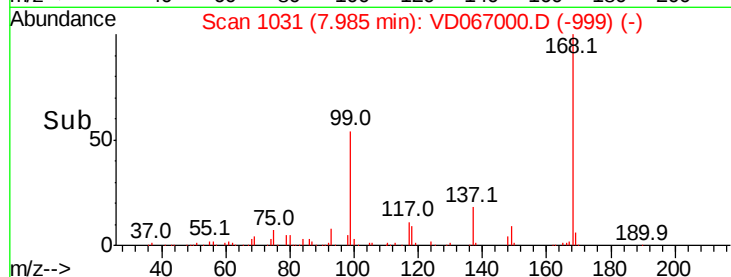
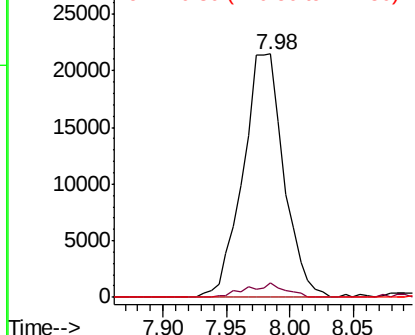
#38
Carbon Tetrachloride
Concen: 6.078 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD067000.D
Acq: 01 Oct 2020 18:42

Instrument :
MSVOA_D
ClientSampleId :
11940

Tot Ion:117 Resp: 48504
Ion Ratio Lower Upper
117 100
119 6.0 78.7 118.1#
121 0.0 24.2 36.2#

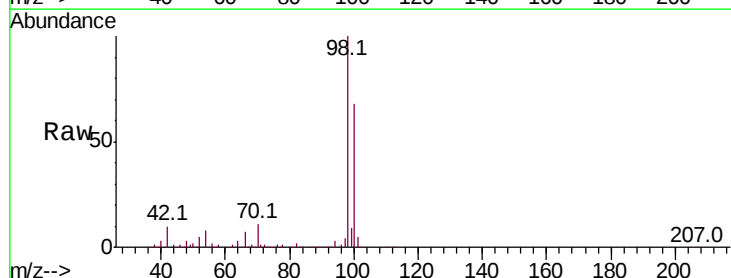


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

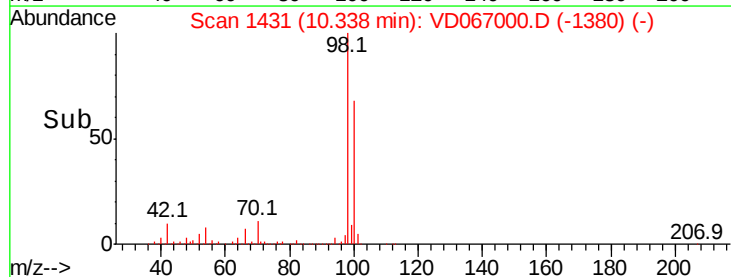
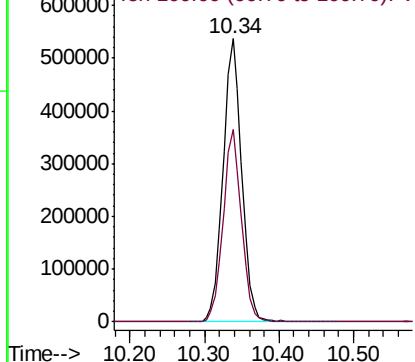


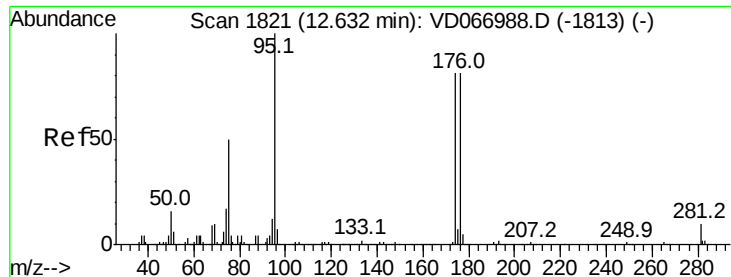
#50
Toluene-d8
Concen: 49.623 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067000.D
Acq: 01 Oct 2020 18:42

Tgt Ion: 98 Resp: 936668
Ion Ratio Lower Upper
98 100
100 66.7 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.566 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

11940

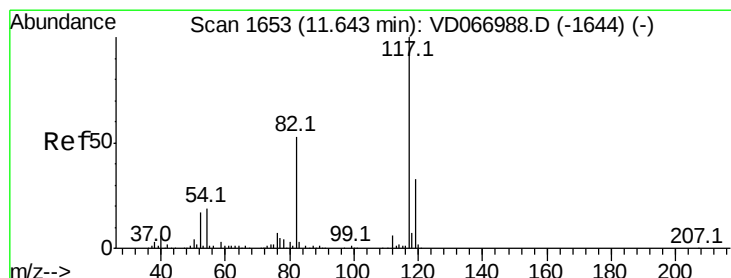
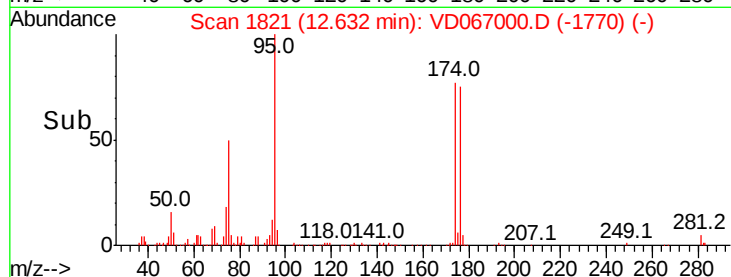
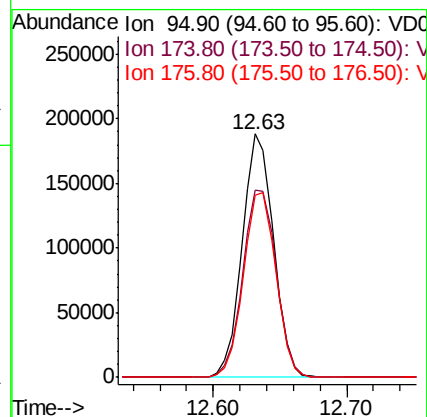
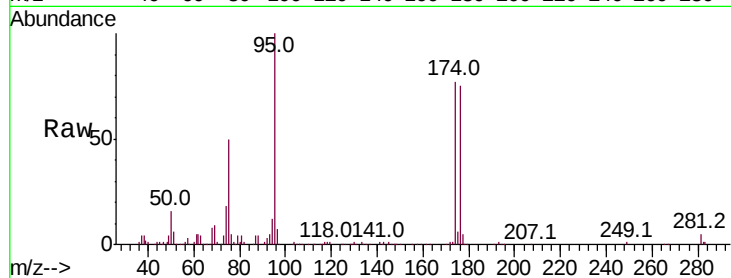
Tot Ion: 95 Resp: 304796

Ion Ratio Lower Upper

95 100

174 82.0 0.0 167.6

176 78.7 0.0 162.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

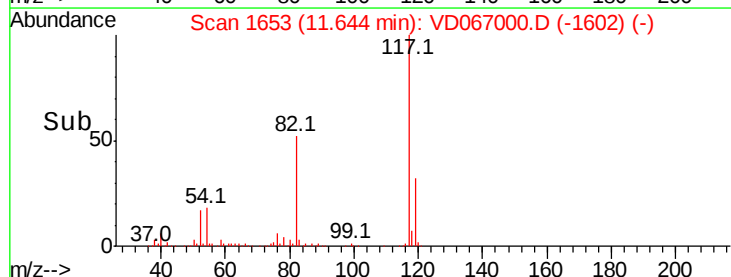
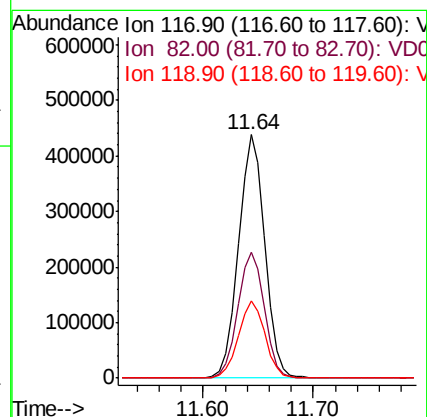
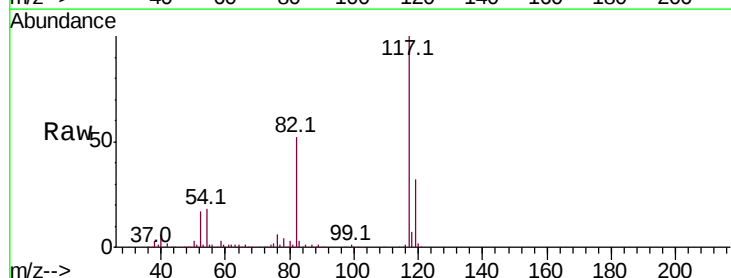
Tgt Ion: 117 Resp: 733986

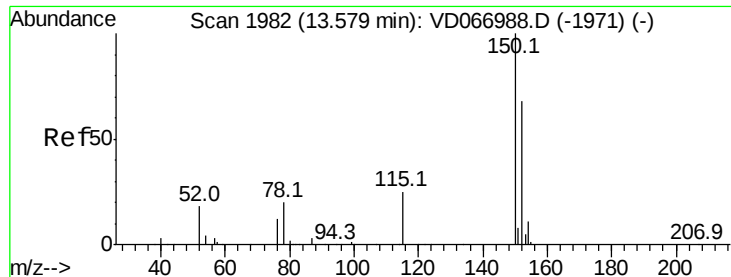
Ion Ratio Lower Upper

117 100

82 51.6 42.6 63.8

119 31.8 26.3 39.5



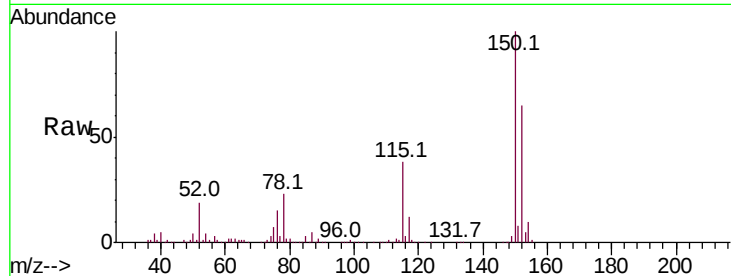


#72

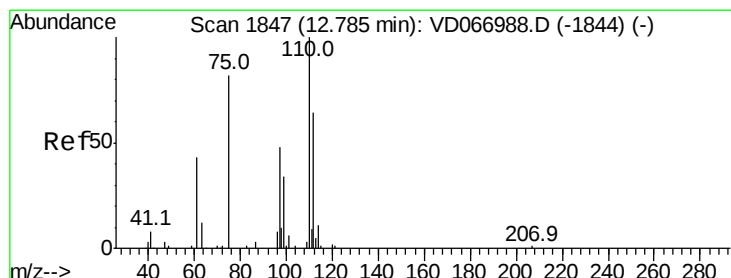
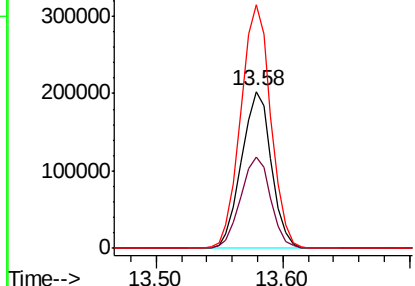
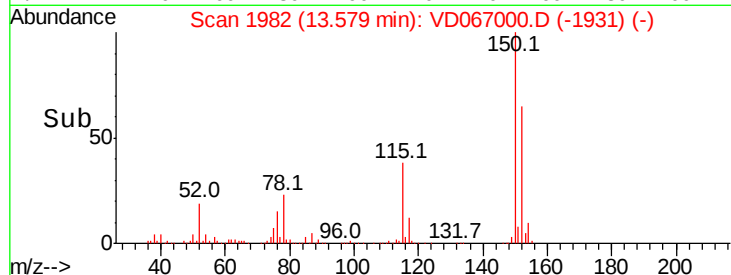
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067000.D
Acq: 01 Oct 2020 18:42

Instrument :
MSVOA_D
ClientSampleId :
11940

Tot Ion:152 Resp: 331837
Ion Ratio Lower Upper
152 100
115 58.4 29.6 88.8
150 155.7 0.0 344.8



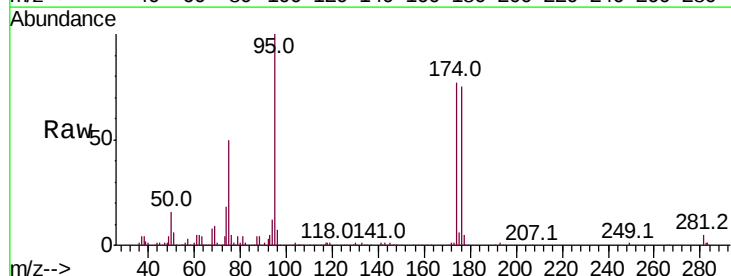
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



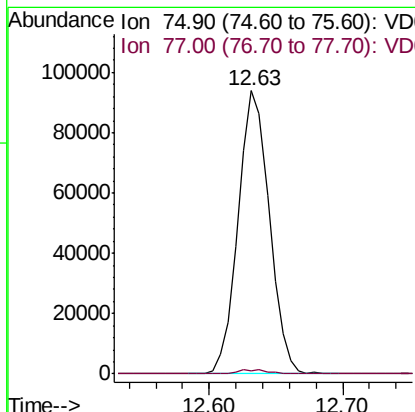
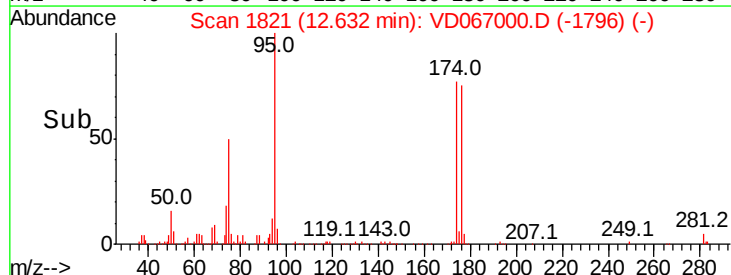
#76

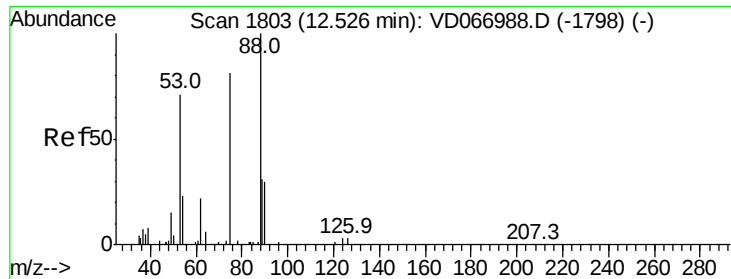
1,2,3-Trichloropropane
Concen: 52.584 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.15 min
Lab File: VD067000.D
Acq: 01 Oct 2020 18:42

Tgt Ion: 75 Resp: 151988
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 131.097 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067000.D

Acq: 01 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

11940

Tot Ion: 75 Resp: 151988

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.0 38.9 58.3#

