

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100620\
 Data File : VD067117.D
 Acq On : 06 Oct 2020 19:30
 Operator : VA/SY
 Sample : L4272-54
 Misc : 8.34G/5.00ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SC-11-(3.5)

Quant Time: Oct 07 01:12:52 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	401672	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	666224	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	622970	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	282412	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	197964	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
35) Dibromofluoromethane	7.91	113	216588	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
50) Toluene-d8	10.34	98	785451	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.64	95	263425	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	

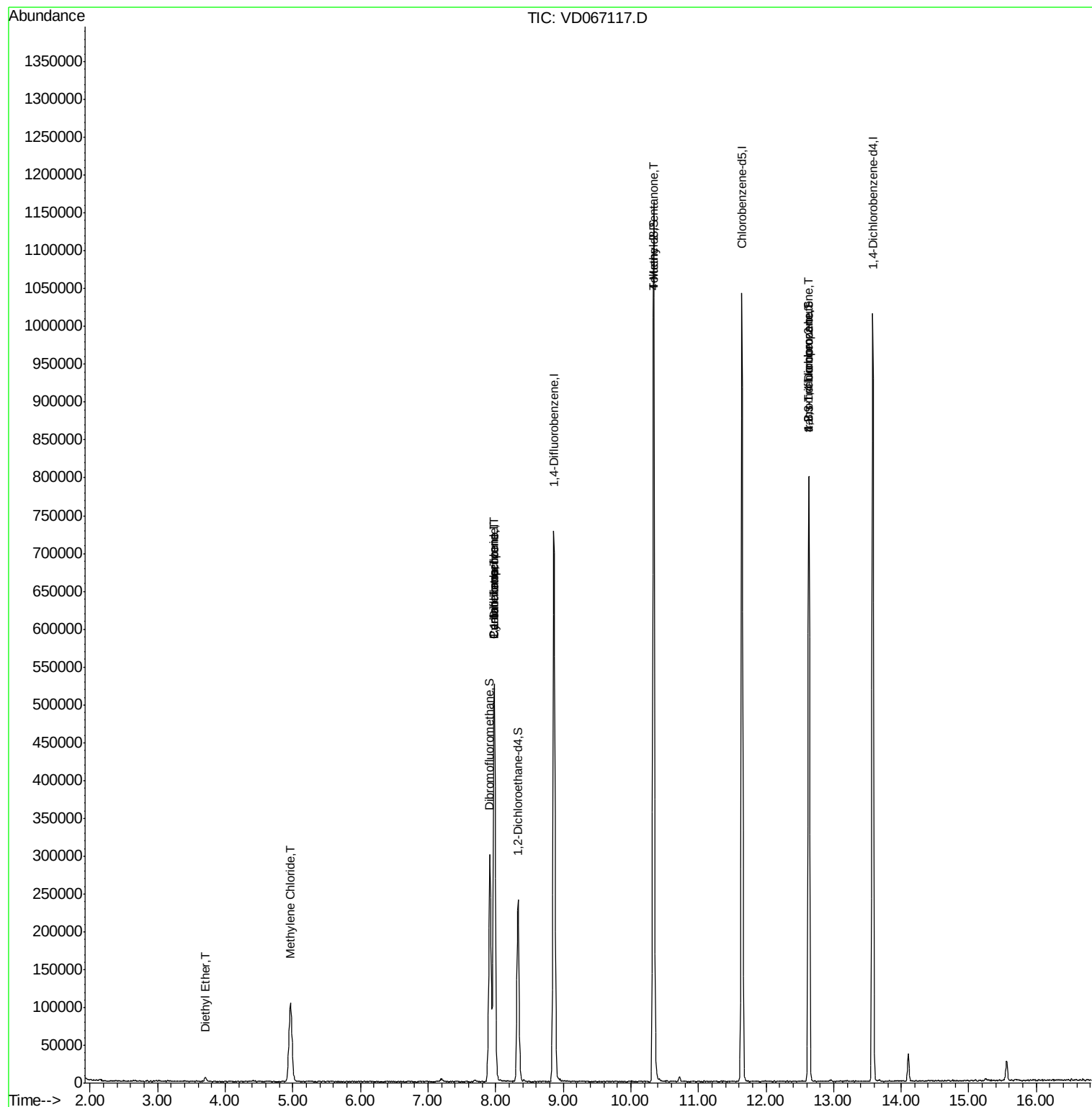
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.77	94	69	Below Cal	#	3
8) Diethyl Ether	3.71	74	3488	1.974	ug/l	83
11) Tert butyl alcohol	5.20	59	116	Below Cal	#	72
20) Methylene Chloride	4.97	84	86766	15.715	ug/l	95
26) 2,2-Dichloropropane	7.20	77	53	Below Cal	#	53
31) Cyclohexane	7.99	56	7115	1.225	ug/l	# 12
36) 1,1-Dichloropropene	7.98	75	29288	4.716	ug/l	# 50
38) Carbon Tetrachloride	7.98	117	39127	5.823	ug/l	# 16
51) 4-Methyl-2-Pentanone	10.34	43	3165	1.603	ug/l	# 1
76) 1,2,3-Trichloropropane	12.64	75	126670	51.494	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.64	75	126670	128.381	ug/l	# 12

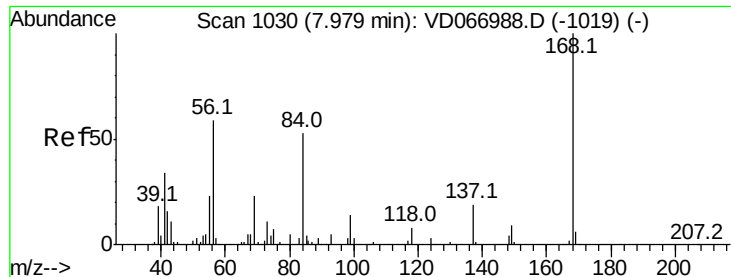
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

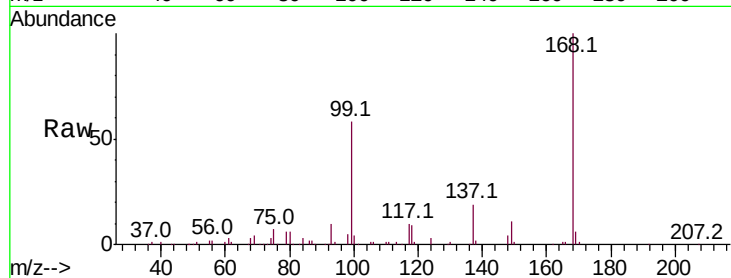
SC-11-(3.5)

Tot Ion:168 Resp: 401672

Ion Ratio Lower Upper

168 100

99 58.4 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

200000

150000

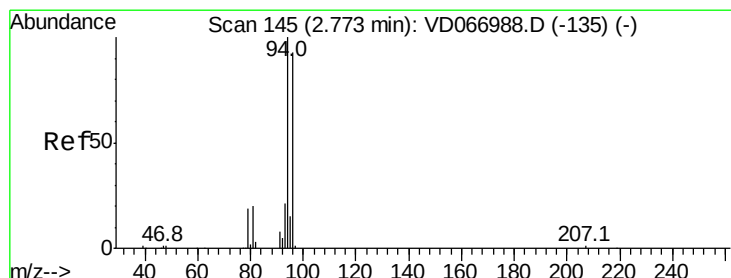
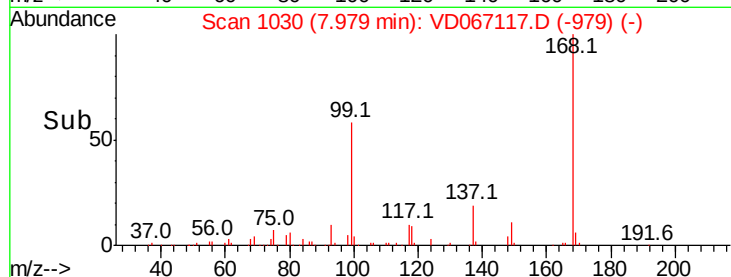
100000

50000

0

7.90 8.00 8.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067117.D

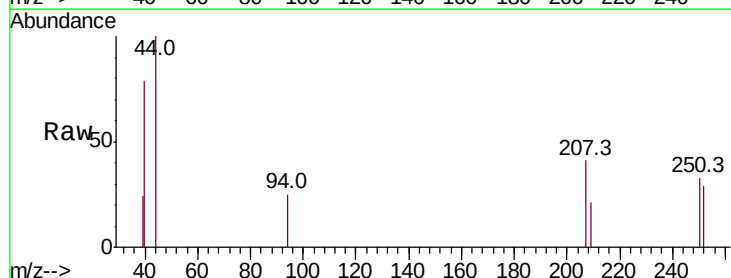
Acq: 06 Oct 2020 19:30

Tgt Ion: 94 Resp: 69

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

250

200

150

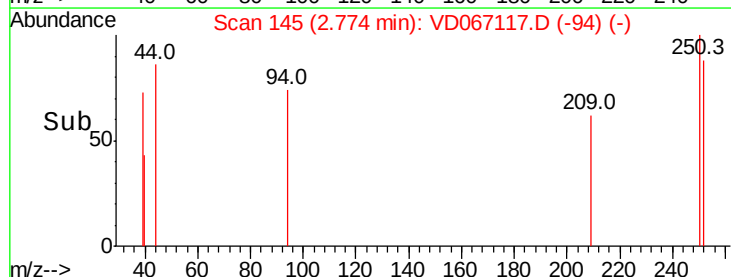
100

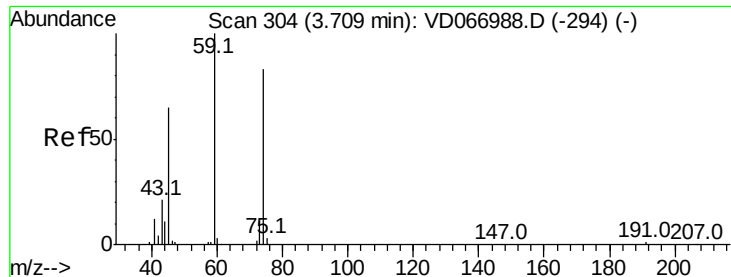
50

0

2.75 2.76 2.77 2.78 2.79

Time-->





#8

Diethyl Ether

Concen: 1.974 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.00 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

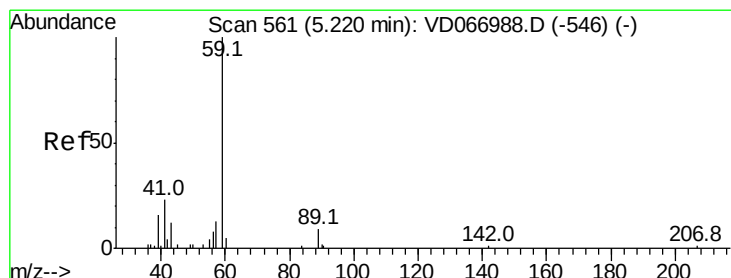
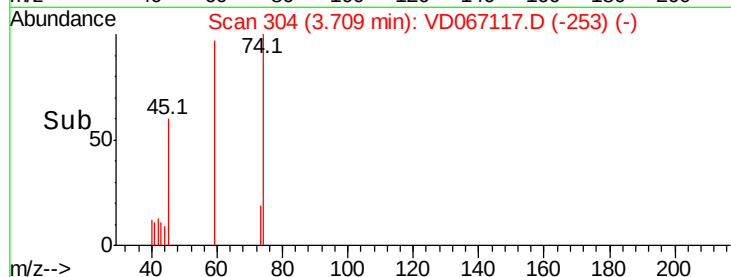
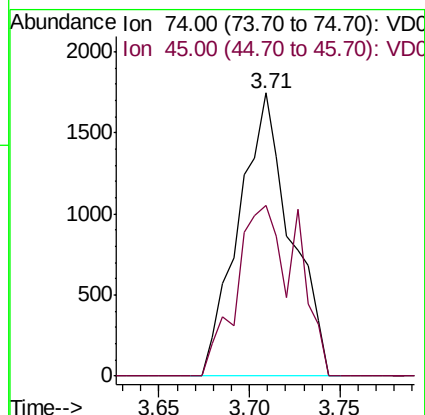
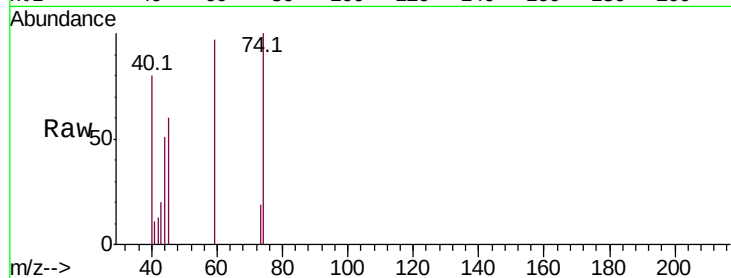
SC-11-(3.5)

Tot Ion: 74 Resp: 3488

Ion Ratio Lower Upper

74 100

45 70.2 43.1 129.3



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD067117.D

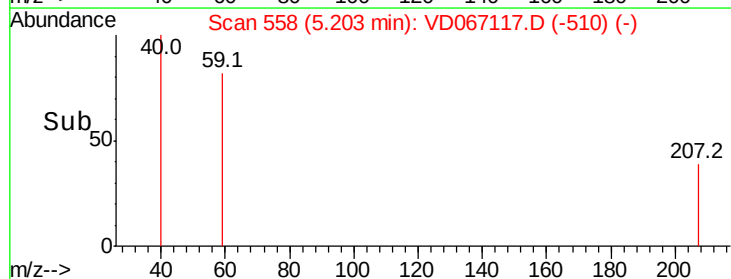
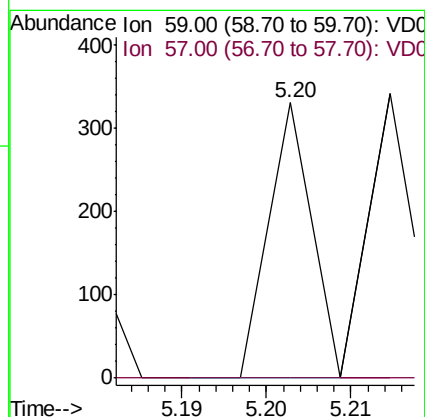
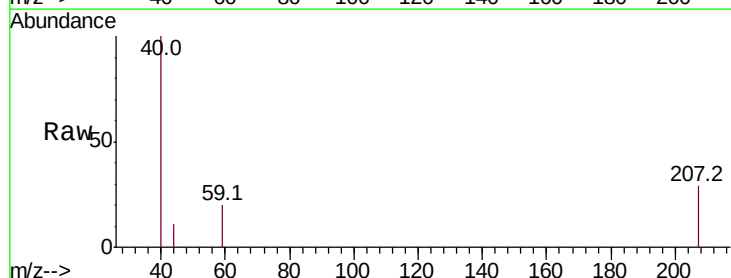
Acq: 06 Oct 2020 19:30

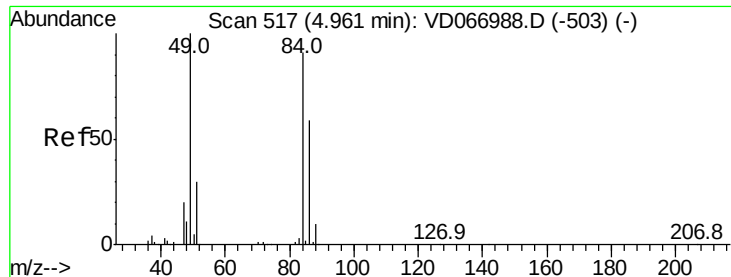
Tgt Ion: 59 Resp: 116

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#20

Methylene Chloride

Concen: 15.715 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

SC-11-(3.5)

Tot Ion: 84 Resp: 86766

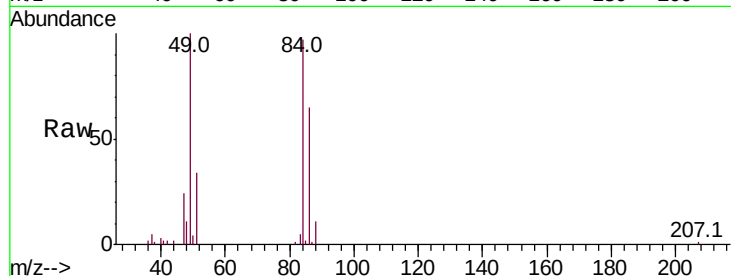
Ion Ratio Lower Upper

84 100

49 102.8 88.2 132.2

51 35.0 26.6 39.8

86 66.7 52.1 78.1



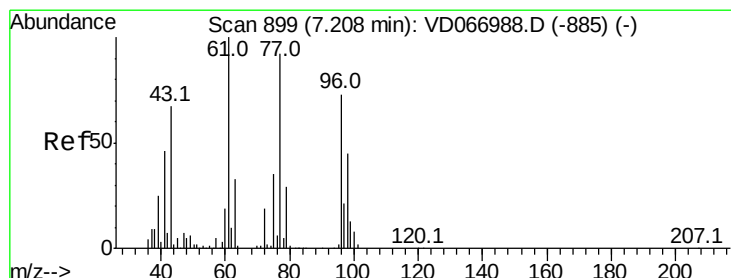
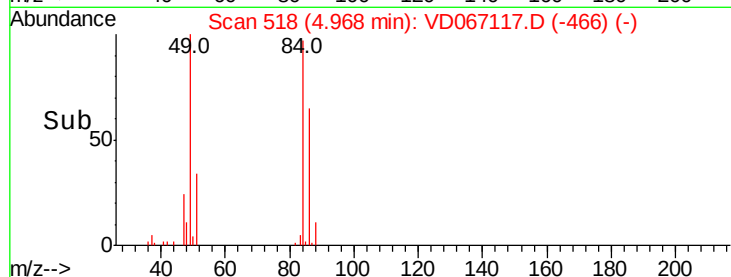
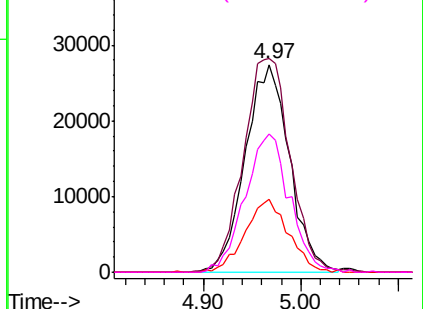
Abundance

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



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067117.D

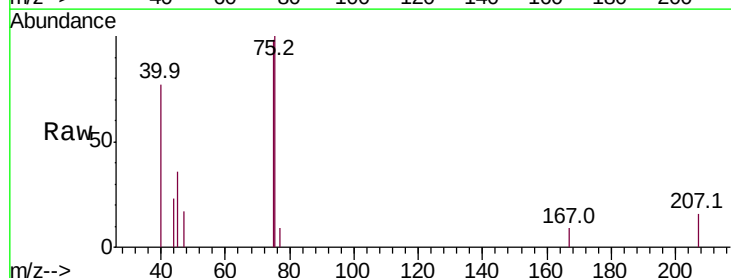
Acq: 06 Oct 2020 19:30

Tgt Ion: 77 Resp: 53

Ion Ratio Lower Upper

77 100

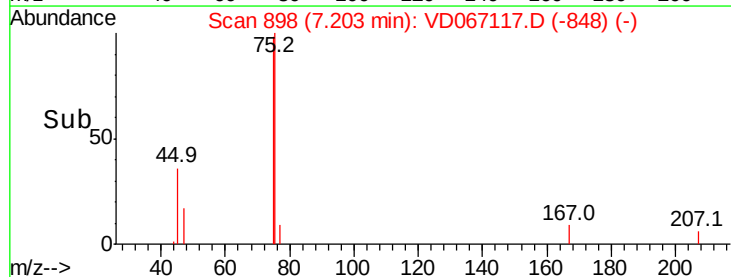
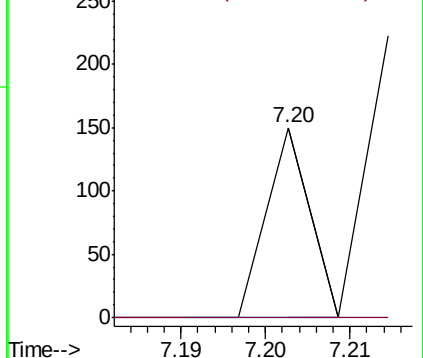
97 0.0 11.4 34.2#

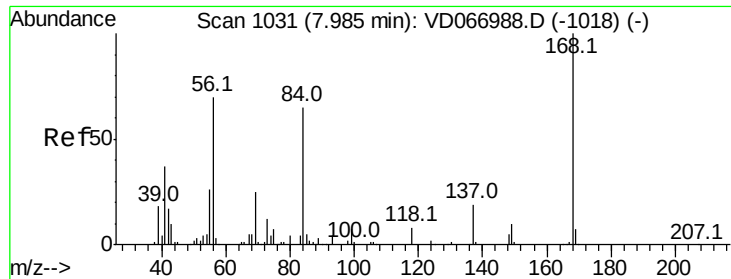


Abundance

Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

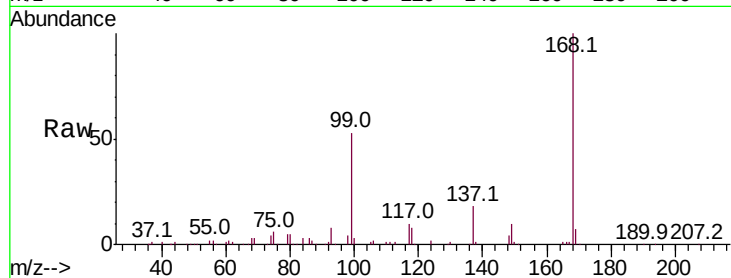




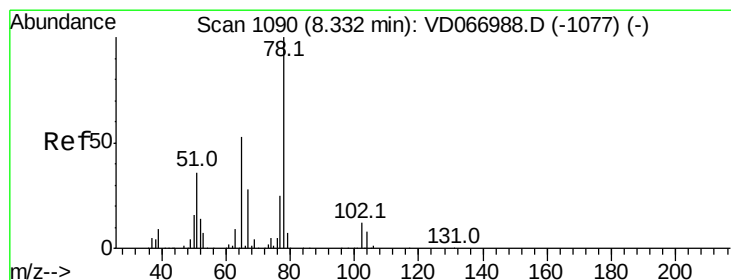
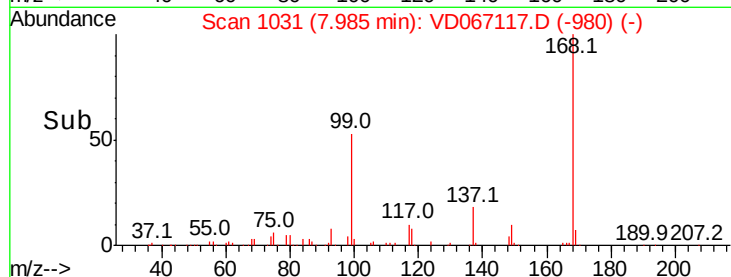
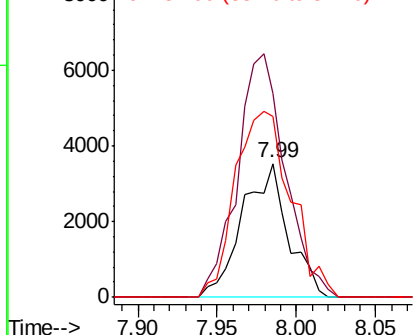
#31
Cyclohexane
Concen: 1.225 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD067117.D
Acq: 06 Oct 2020 19:30

Instrument :
MSVOA_D
ClientSampleId :
SC-11-(3.5)

Tot Ion: 56 Resp: 7115
Ion Ratio Lower Upper
56 100
69 153.0 29.0 43.6#
84 135.5 74.2 111.2#

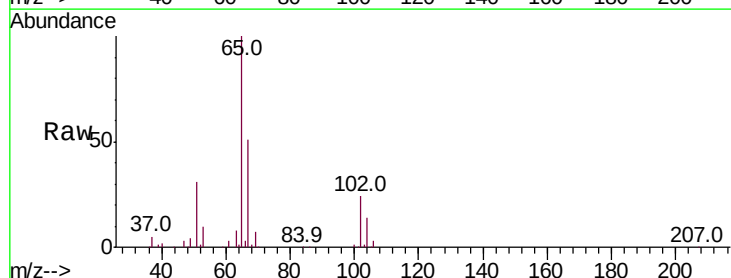


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

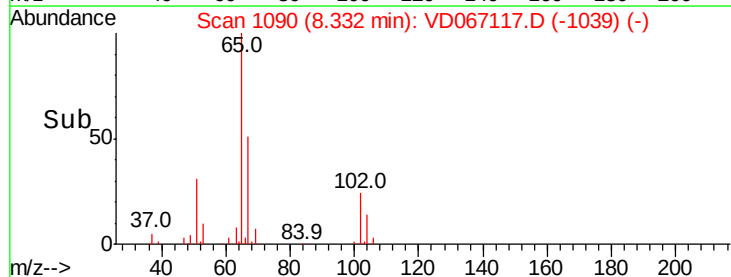
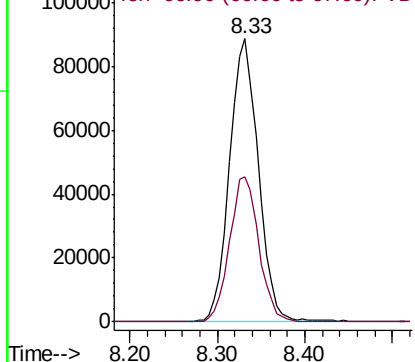


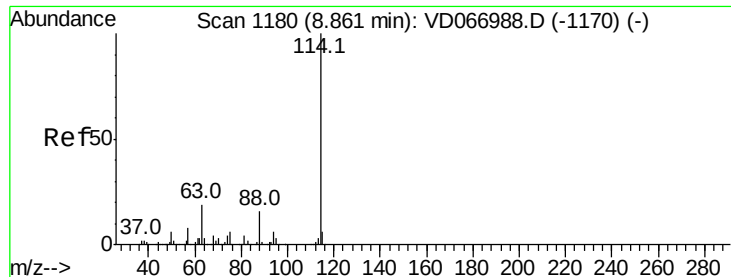
#33
1,2-Dichloroethane-d4
Concen: 51.168 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067117.D
Acq: 06 Oct 2020 19:30

Tgt Ion: 65 Resp: 197964
Ion Ratio Lower Upper
65 100
67 52.0 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

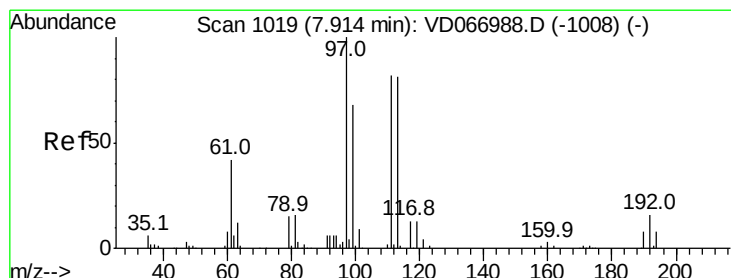
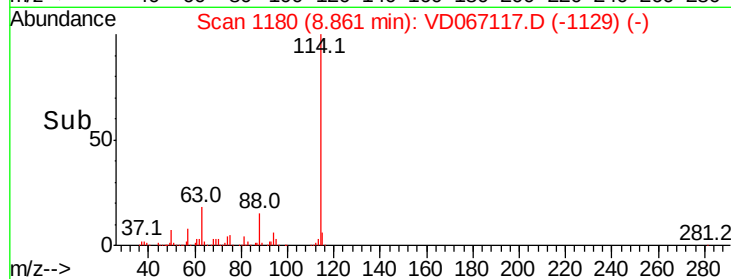
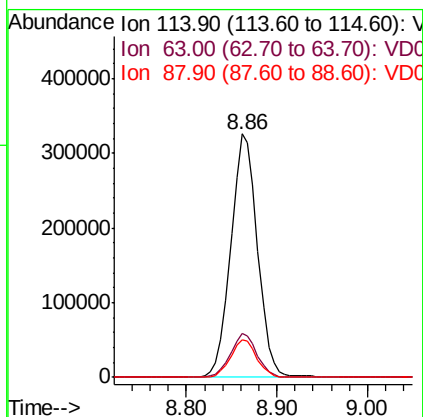
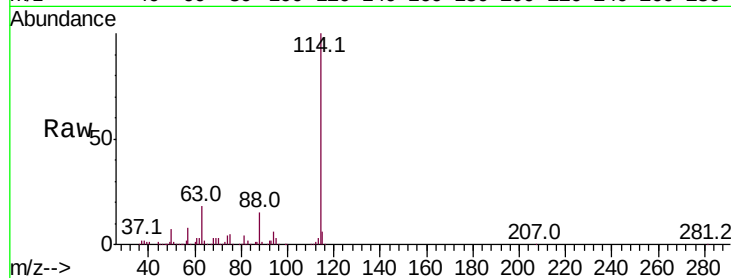
Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :
MSVOA_D
ClientSampleId :
SC-11-(3.5)

Tot Ion:114 Resp: 666224

Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	38.4
88	15.5	0.0	31.2



#35

Dibromofluoromethane

Concen: 49.657 ug/l

RT: 7.91 min Scan# 1019

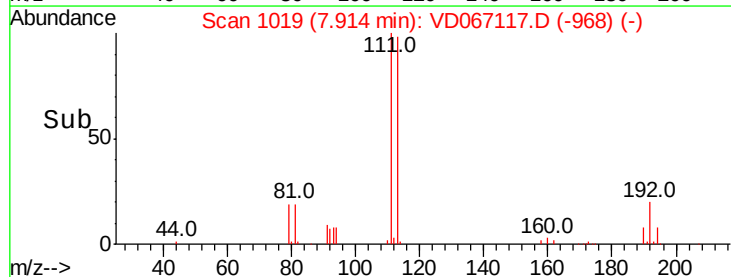
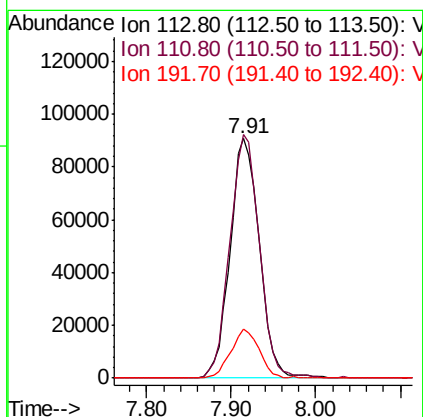
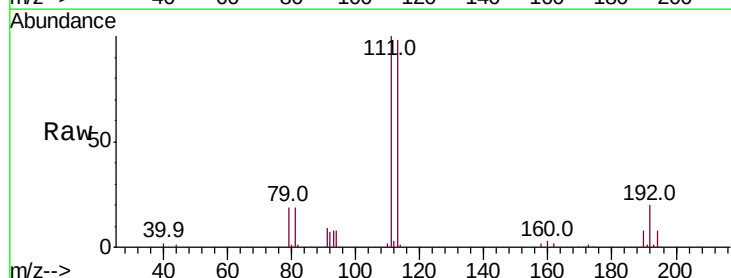
Delta R.T. 0.00 min

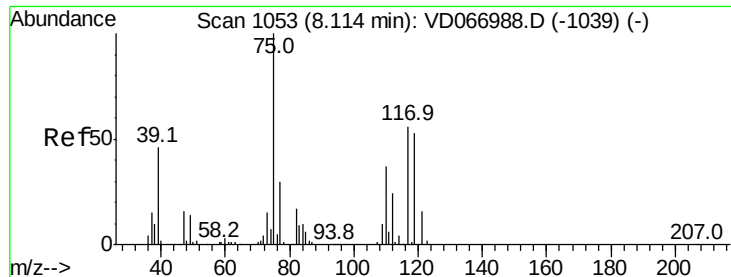
Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Tgt Ion:113 Resp: 216588

Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.0	124.4
192	20.0	15.5	23.3





#36

1,1-Dichloropropene

Concen: 4.716 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :

MSVOA_D

ClientSampled :

SC-11-(3.5)

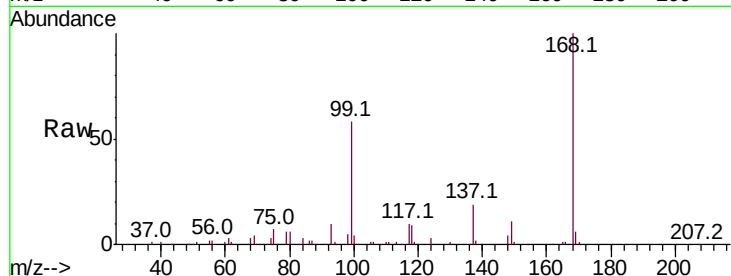
Tot Ion: 75 Resp: 29288

Ion Ratio Lower Upper

75 100

110 10.5 18.4 55.0#

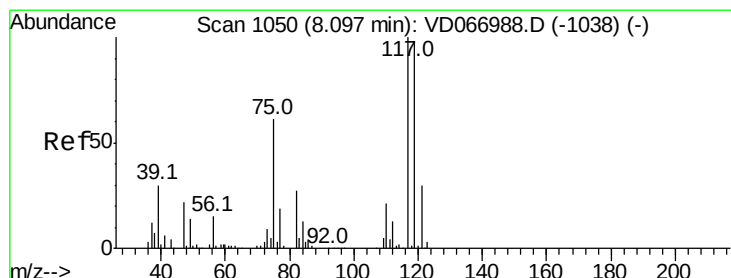
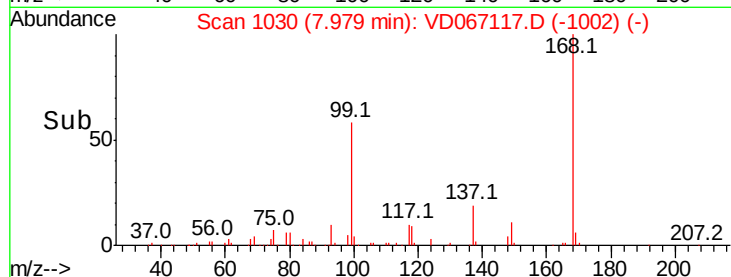
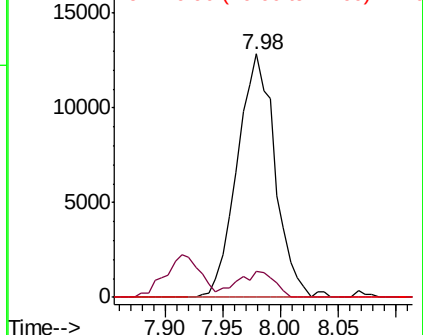
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#38

Carbon Tetrachloride

Concen: 5.823 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

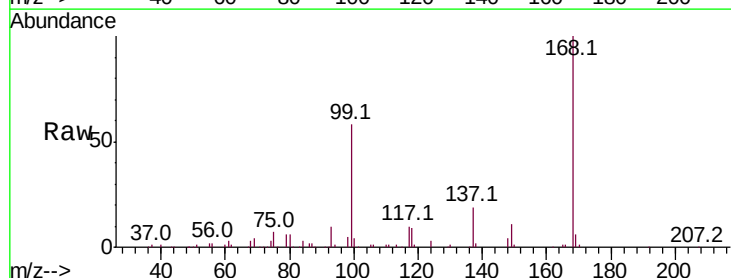
Tgt Ion: 117 Resp: 39127

Ion Ratio Lower Upper

117 100

119 6.6 78.7 118.1#

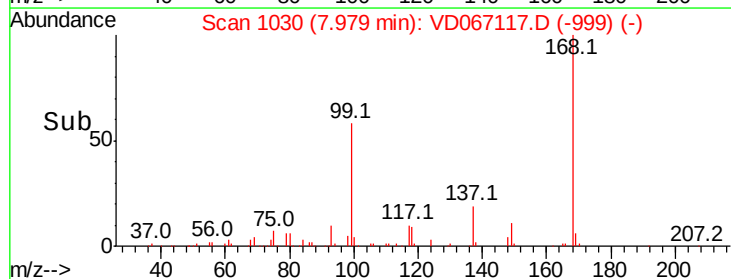
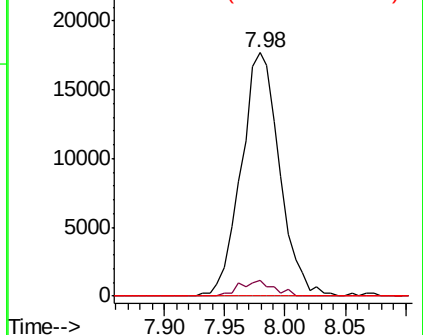
121 0.0 24.2 36.2#

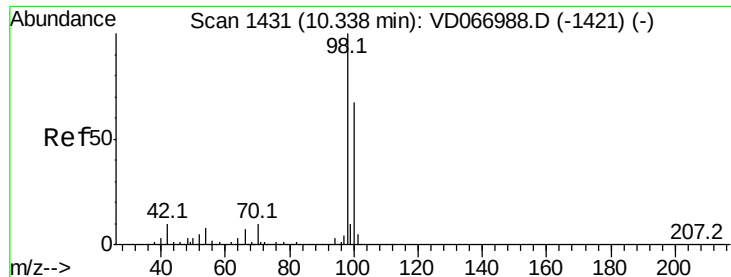


Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC

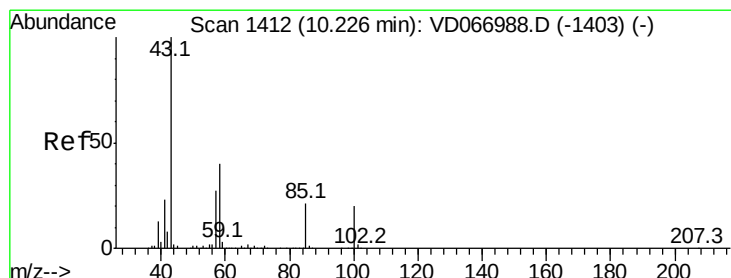
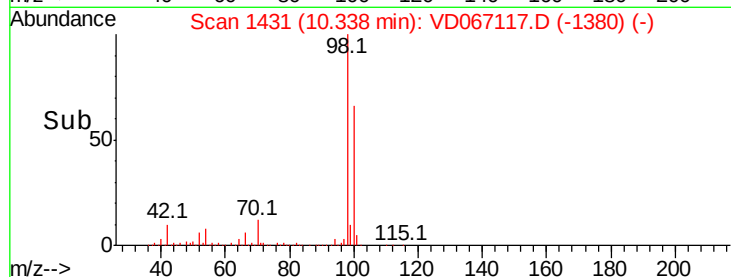
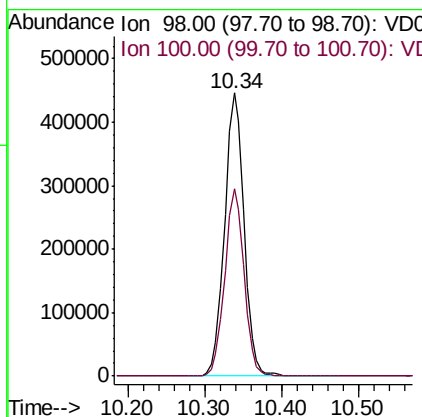
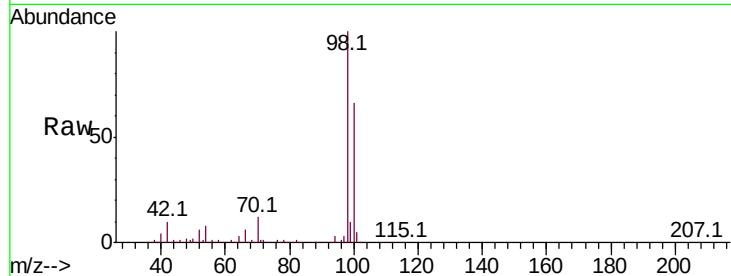




#50
Toluene-d8
Concen: 49.420 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067117.D
Acq: 06 Oct 2020 19:30

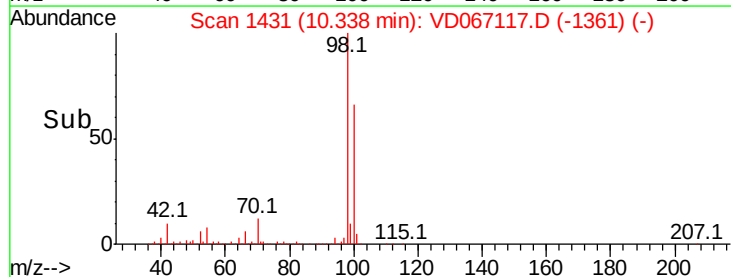
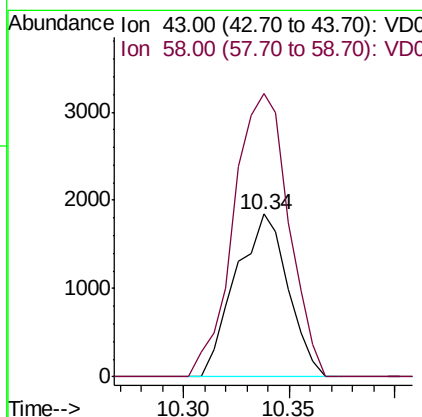
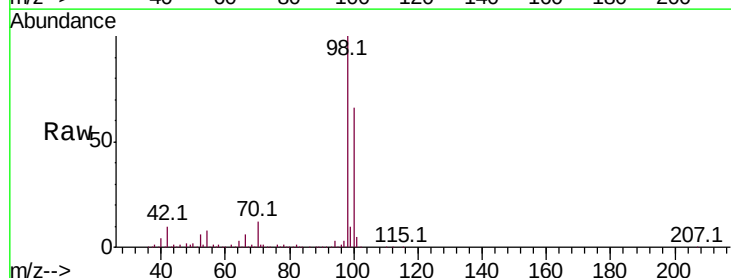
Instrument :
MSVOA_D
ClientSampleId :
SC-11-(3.5)

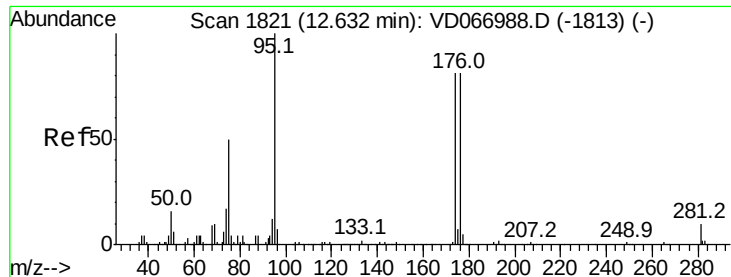
Tot Ion: 98 Resp: 785451
Ion Ratio Lower Upper
98 100
100 66.2 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.603 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.11 min
Lab File: VD067117.D
Acq: 06 Oct 2020 19:30

Tgt Ion: 43 Resp: 3165
Ion Ratio Lower Upper
43 100
58 183.2 33.8 50.8#





#62

4-Bromofluorobenzene

Concen: 48.824 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

SC-11-(3.5)

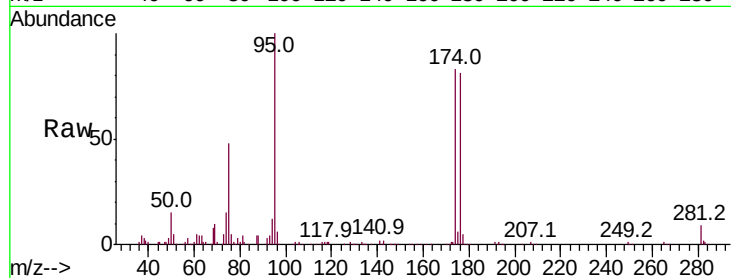
Tot Ion: 95 Resp: 263425

Ion Ratio Lower Upper

95 100

174 82.8 0.0 167.6

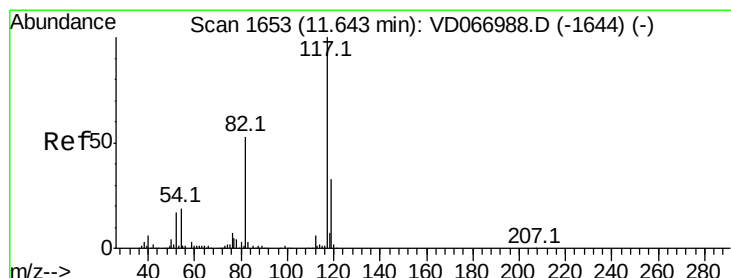
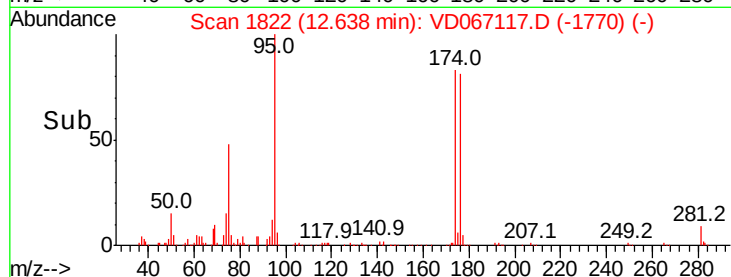
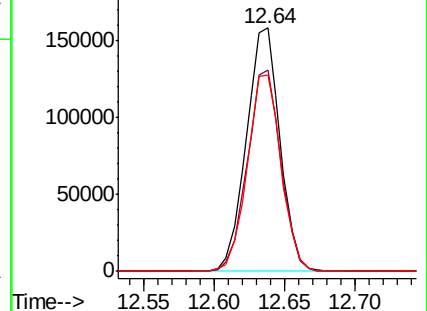
176 81.0 0.0 162.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

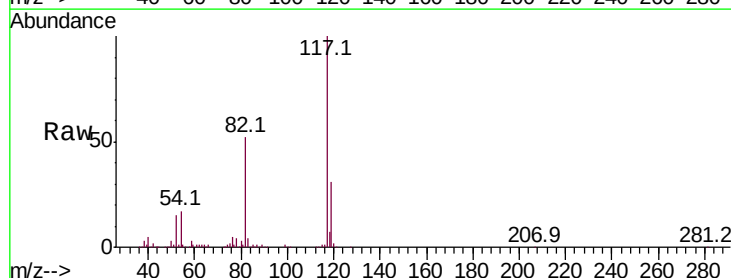
Tgt Ion: 117 Resp: 622970

Ion Ratio Lower Upper

117 100

82 51.9 42.6 63.8

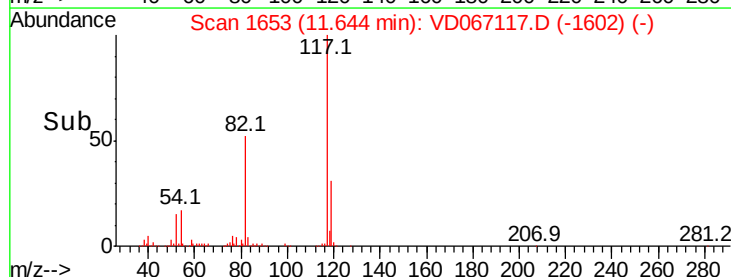
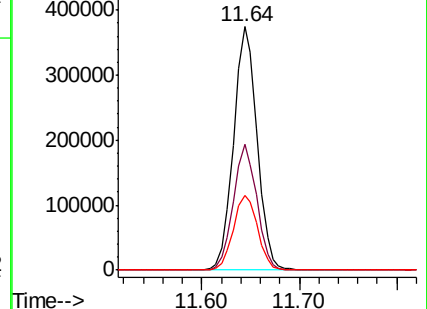
119 30.6 26.3 39.5

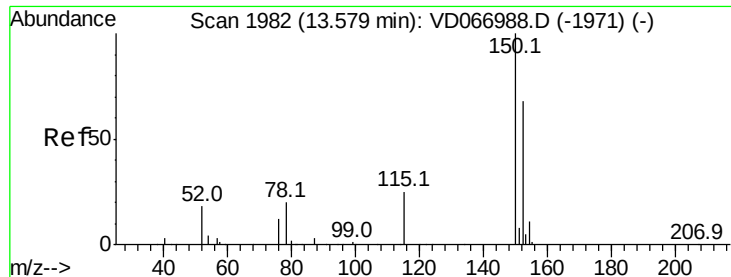


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

SC-11-(3.5)

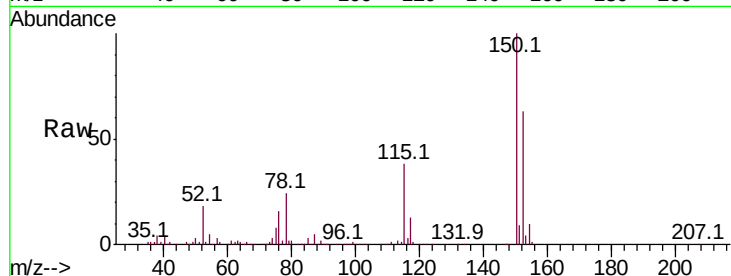
Tot Ion:152 Resp: 282412

Ion Ratio Lower Upper

152 100

115 60.5 29.6 88.8

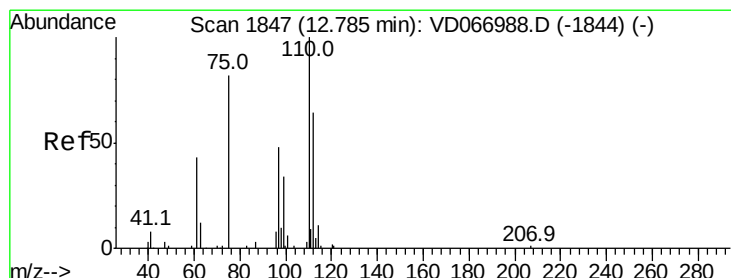
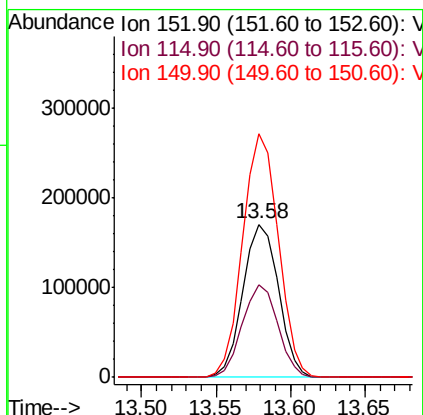
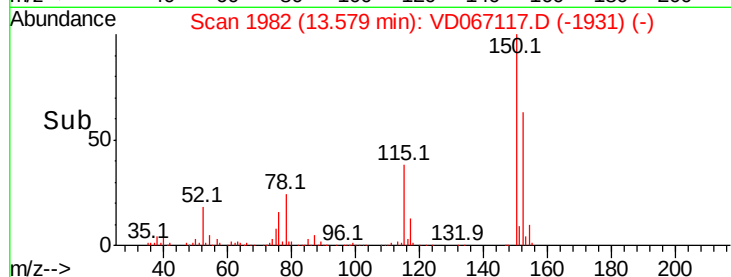
150 159.0 0.0 344.8



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: 51.494 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067117.D

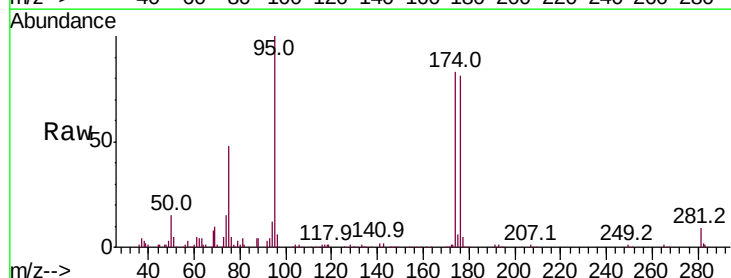
Acq: 06 Oct 2020 19:30

Tgt Ion: 75 Resp: 126670

Ion Ratio Lower Upper

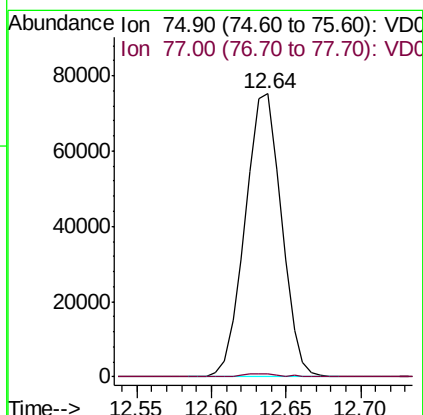
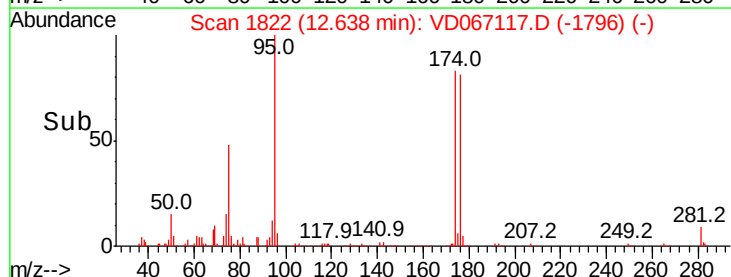
75 100

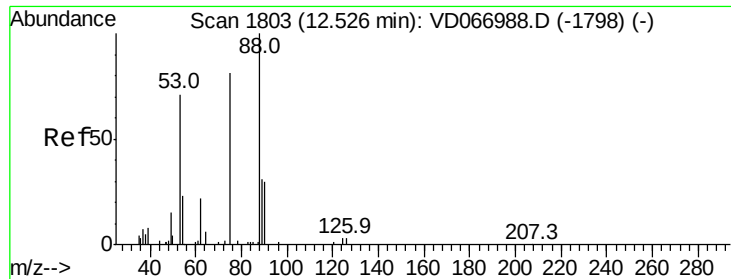
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 128.381 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067117.D

Acq: 06 Oct 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

SC-11-(3.5)

Tot Ion: 75 Resp: 126670

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.1 38.9 58.3#

