

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111120\
 Data File : VD067600.D
 Acq On : 11 Nov 2020 14:13
 Operator : VA/SY
 Sample : L4685-01
 Misc : 6.61G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-11978

Quant Time: Nov 12 00:09:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	381160	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	601306	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	642532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	323686	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	175275	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
35) Dibromofluoromethane	7.92	113	194801	53.77	ug/l	0.00
Spiked Amount			Recovery	=	107.54%	
50) Toluene-d8	10.34	98	714696	56.14	ug/l	0.00
Spiked Amount			Recovery	=	112.28%	
62) 4-Bromofluorobenzene	12.64	95	298446	67.90	ug/l	0.00
Spiked Amount			Recovery	=	135.80%	

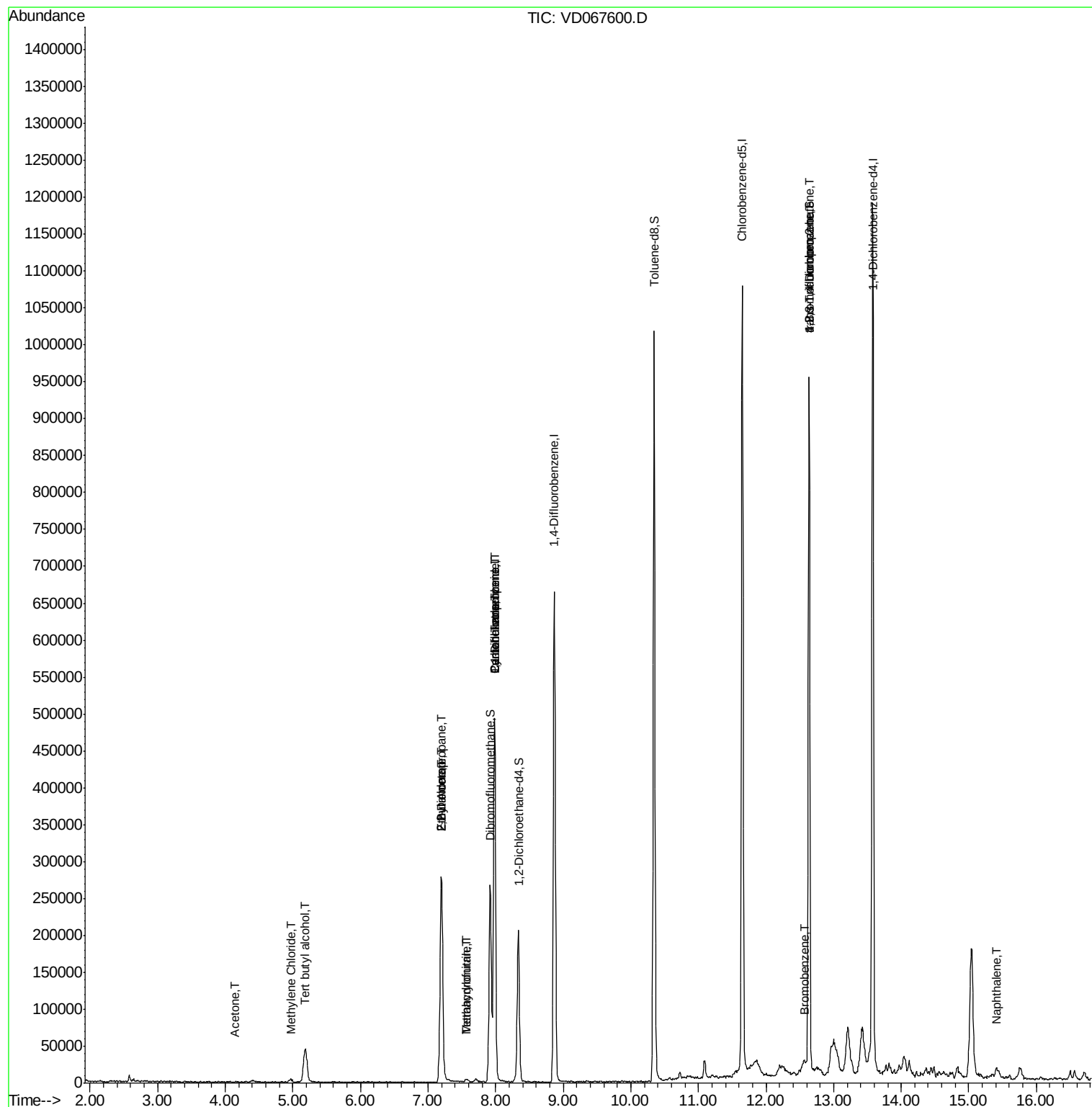
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	335	Below Cal	#	44
11) Tert butyl alcohol	5.18	59	40881	287.683	ug/l #	81
16) Acetone	4.15	43	687	1.377	ug/l #	43
20) Methylene Chloride	4.97	84	3582	1.017	ug/l #	85
25) 2-Butanone	7.20	43	12766	23.955	ug/l #	76
26) 2,2-Dichloropropane	7.20	77	19646	3.429	ug/l #	54
29) Tetrahydrofuran	7.57	42	1845	5.780	ug/l #	80
31) Cyclohexane	7.98	56	6972	1.442	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	26446	5.138	ug/l #	50
37) Ethyl Acetate	7.20	43	12766	9.553	ug/l #	66
38) Carbon Tetrachloride	7.99	117	37864	5.662	ug/l #	16
41) Methacrylonitrile	7.57	41	1913	2.395	ug/l #	24
76) 1,2,3-Trichloropropane	12.64	75	151671	77.674	ug/l #	100
77) Bromobenzene	12.57	156	10014	1.949	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.64	75	151671	157.699	ug/l #	10
95) Naphthalene	15.40	128	10821	1.218	ug/l #	95

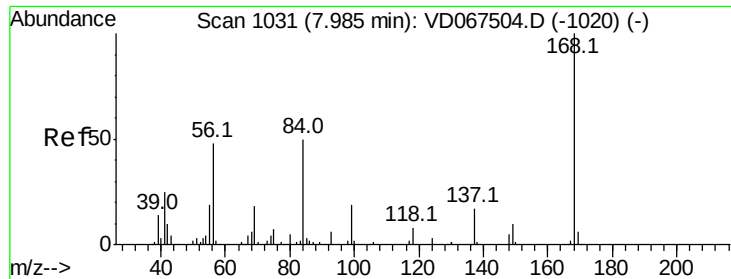
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

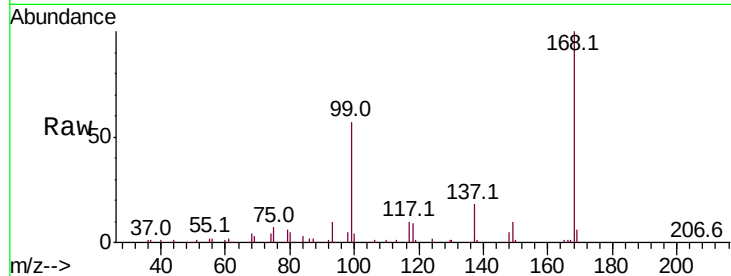
Instrument :
MSVOA_D
ClientSampleId :
72-11978

Tot Ion:168 Resp: 381160

Ion Ratio Lower Upper

168 100

99 57.2 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

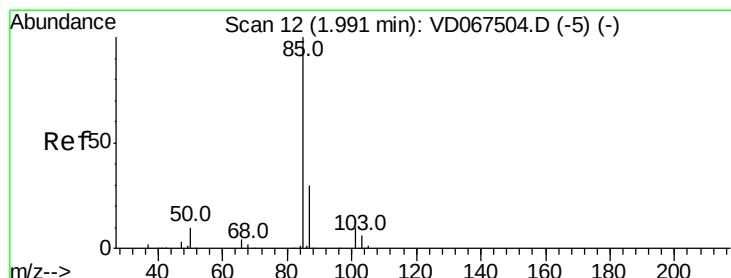
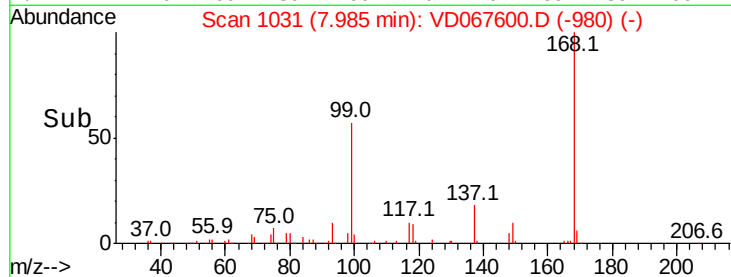
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD067600.D

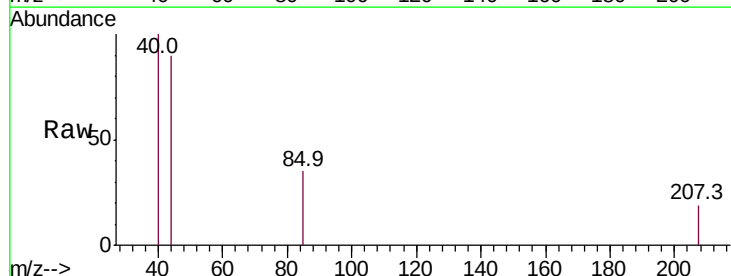
Acq: 11 Nov 2020 14:13

Tgt Ion: 85 Resp: 335

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

400

300

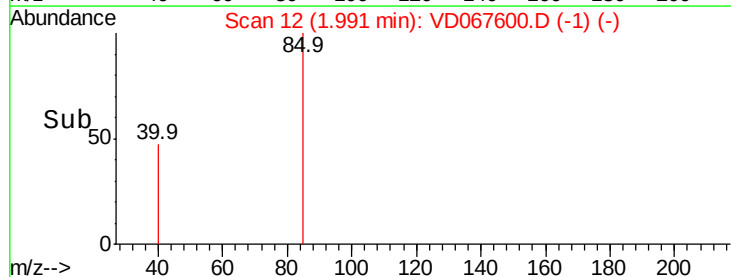
200

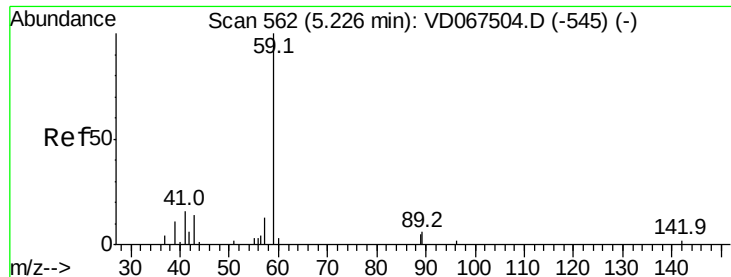
100

0

Time-->

1.96 1.98 2.00 2.02



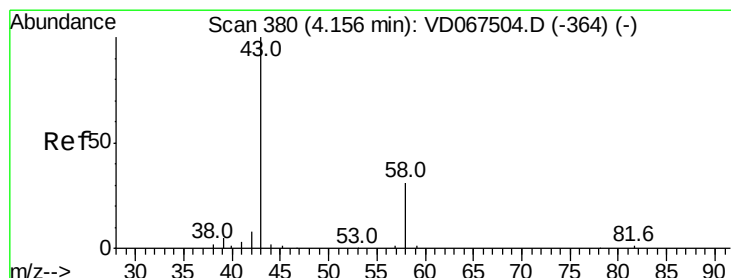
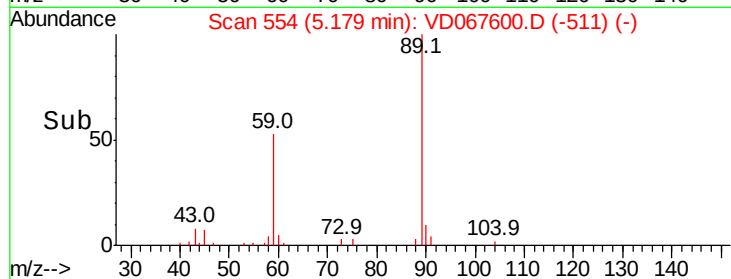
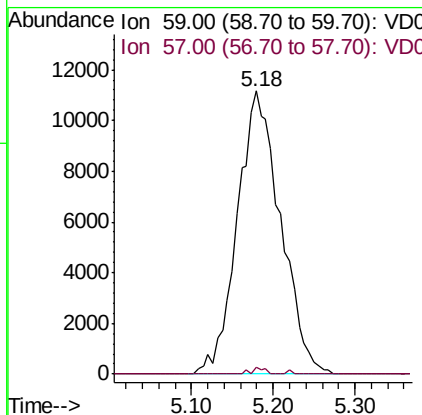
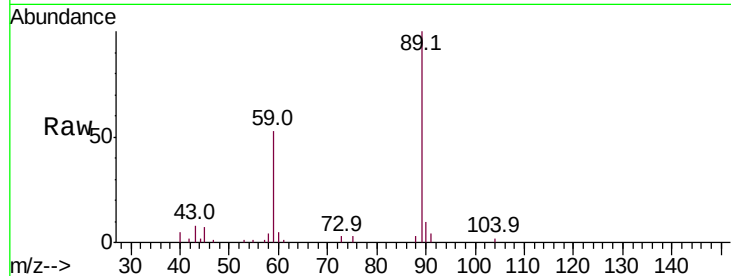


#11

Tert butyl alcohol
 Concen: 287.683 ug/l
 RT: 5.18 min Scan# 554
 Delta R.T. -0.05 min
 Lab File: VD067600.D
 Acq: 11 Nov 2020 14:13

Instrument :
 MSVOA_D
 ClientSampleId :
 72-11978

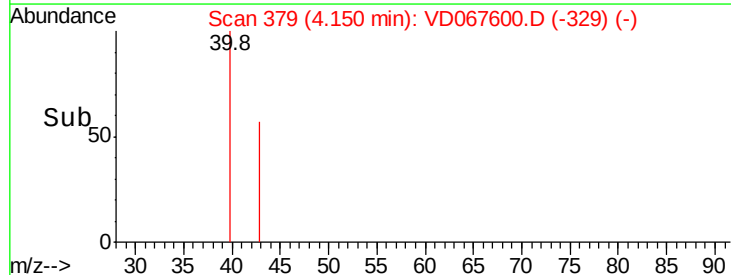
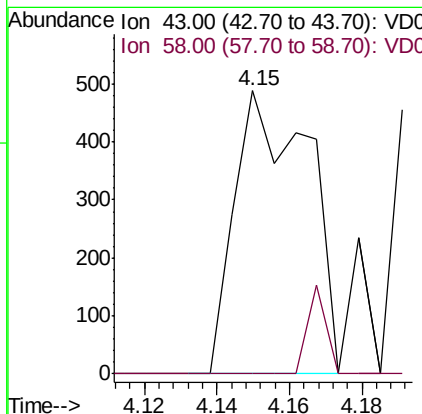
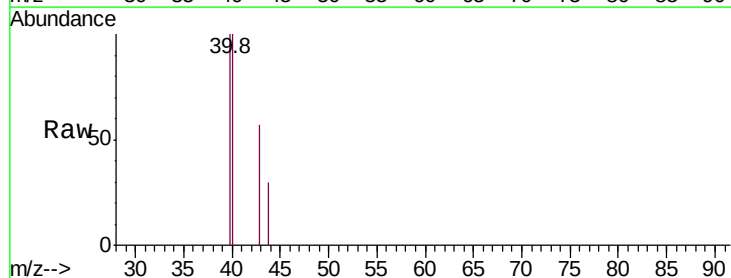
Tot Ion: 59 Resp: 40881
 Ion Ratio Lower Upper
 59 100
 57 0.7 5.9 8.9#

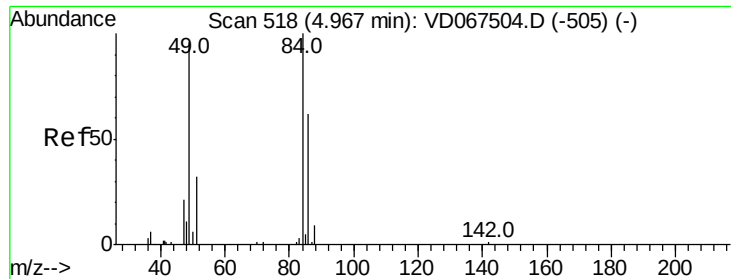


#16

Acetone
 Concen: 1.377 ug/l
 RT: 4.15 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VD067600.D
 Acq: 11 Nov 2020 14:13

Tgt Ion: 43 Resp: 687
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.2 37.8#

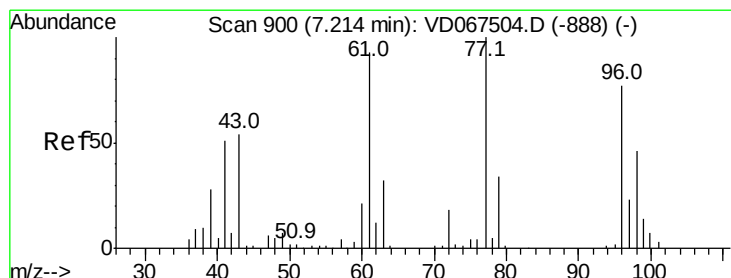
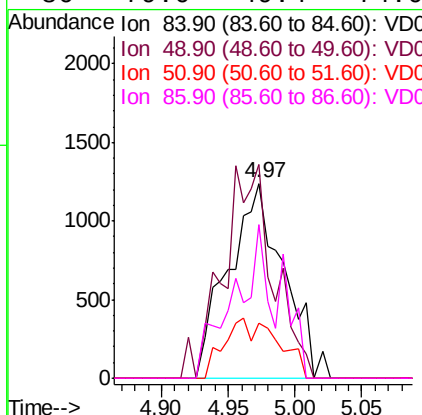
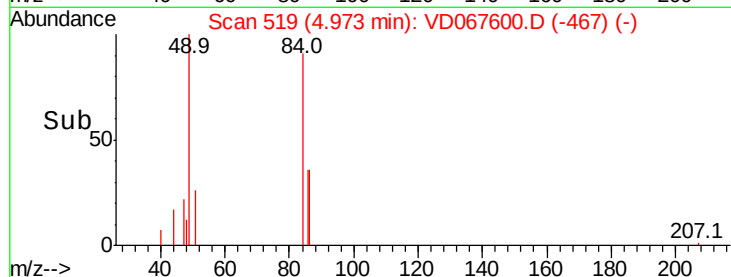
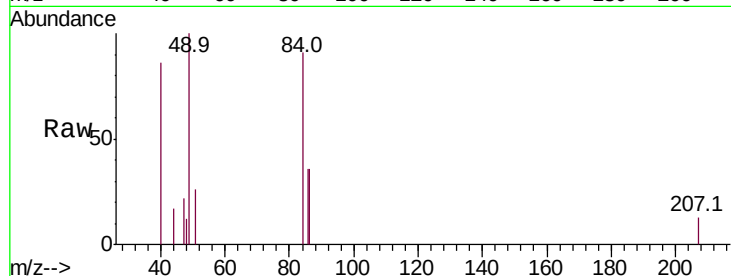




#20
Methylene Chloride
Concen: 1.017 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

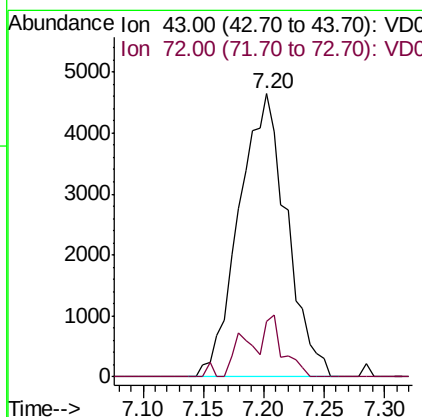
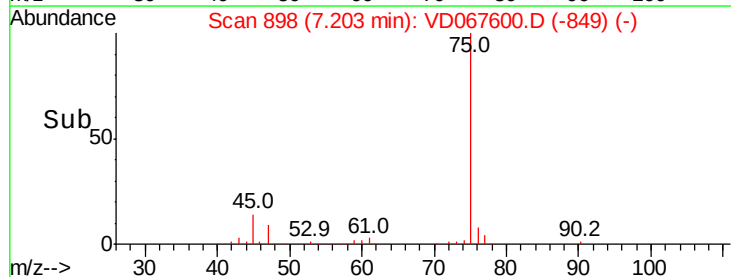
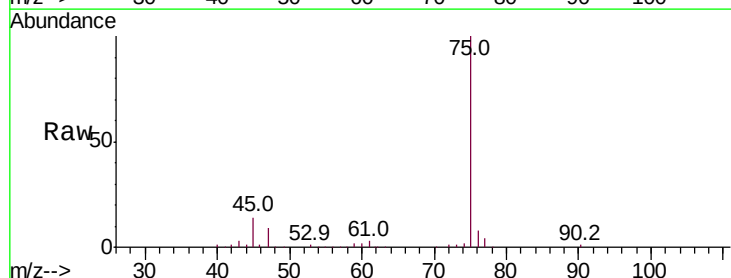
Instrument :
MSVOA_D
ClientSampleId :
72-11978

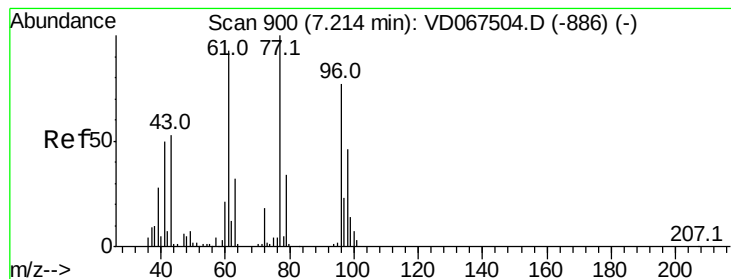
Tot Ion: 84 Resp: 3582
Ion Ratio Lower Upper
84 100
49 109.7 77.0 115.4
51 28.0 25.4 38.2
86 79.0 49.4 74.0#



#25
2-Butanone
Concen: 23.955 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

Tgt Ion: 43 Resp: 12766
Ion Ratio Lower Upper
43 100
72 19.5 26.4 39.6#





#26

2,2-Dichloropropane

Concen: 3.429 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.02 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

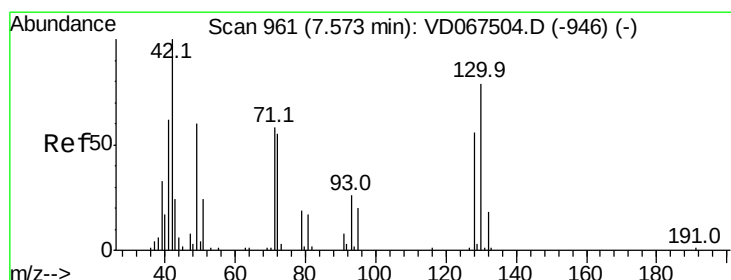
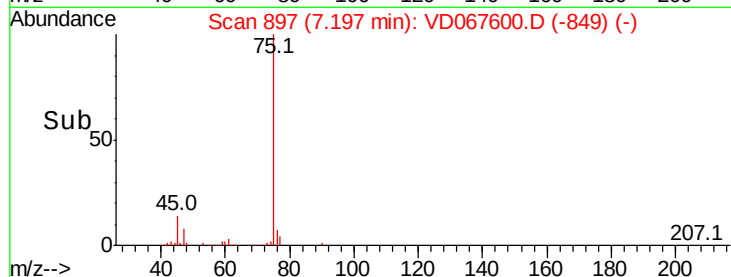
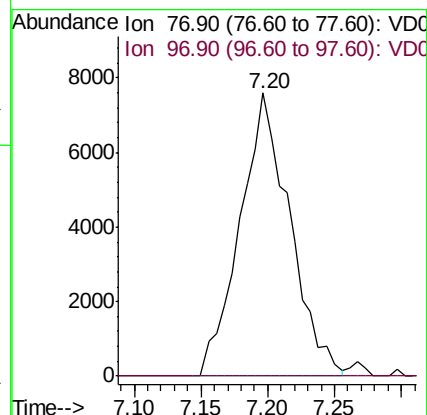
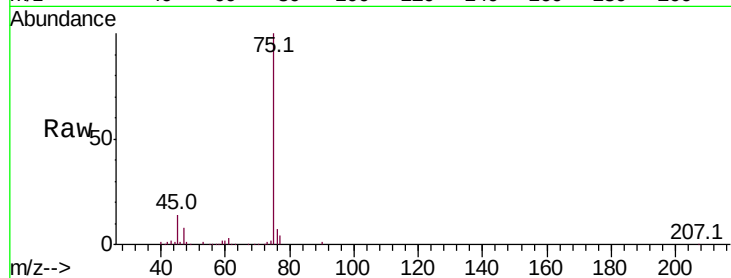
72-11978

Tot Ion: 77 Resp: 19646

Ion Ratio Lower Upper

77 100

97 0.0 11.1 33.3#



#29

Tetrahydrofuran

Concen: 5.780 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

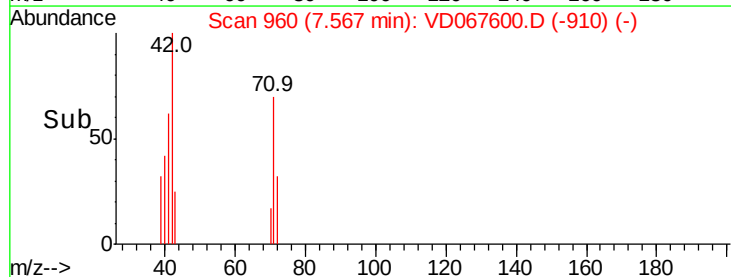
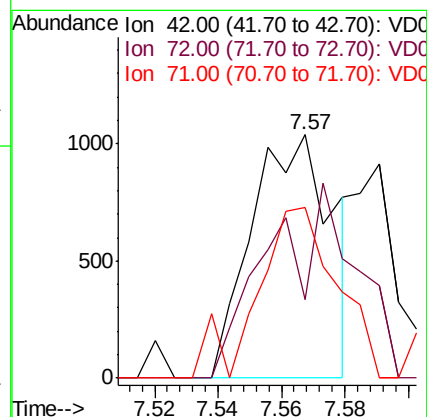
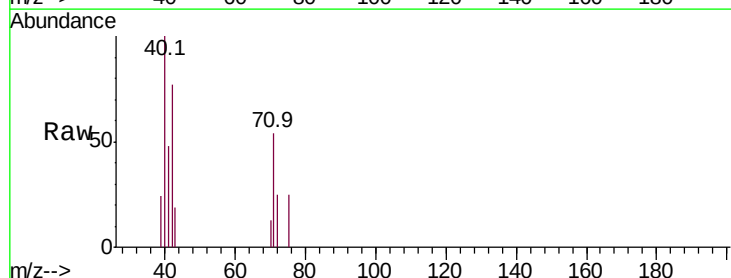
Tgt Ion: 42 Resp: 1845

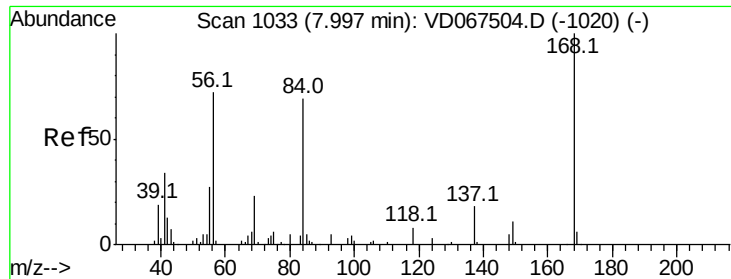
Ion Ratio Lower Upper

42 100

72 42.5 46.3 69.5#

71 68.9 44.0 66.0#

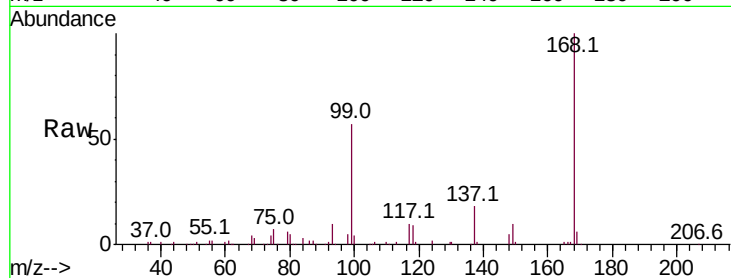




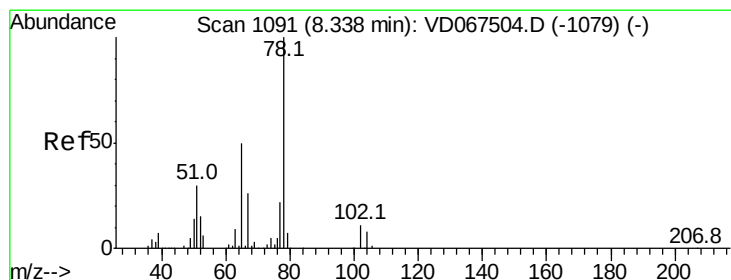
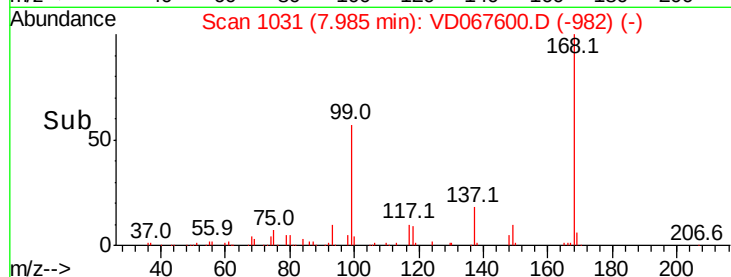
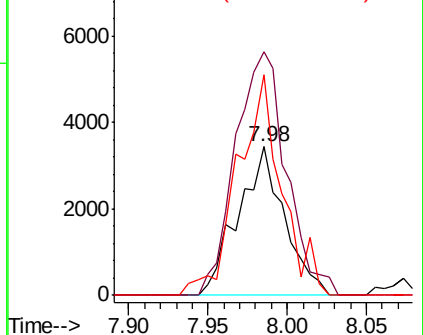
#31
Cyclohexane
Concen: 1.442 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

Instrument :
MSVOA_D
ClientSampleId :
72-11978

Tot Ion: 56 Resp: 6972
Ion Ratio Lower Upper
56 100
69 164.2 25.9 38.9#
84 148.8 76.2 114.4#

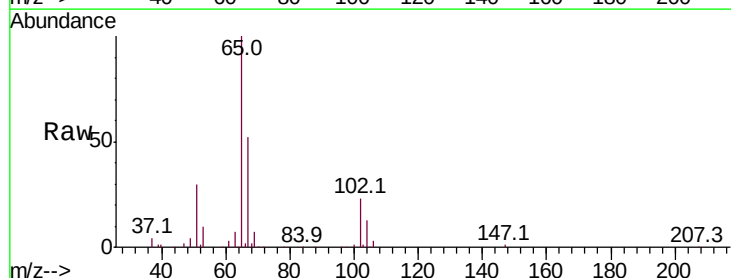


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

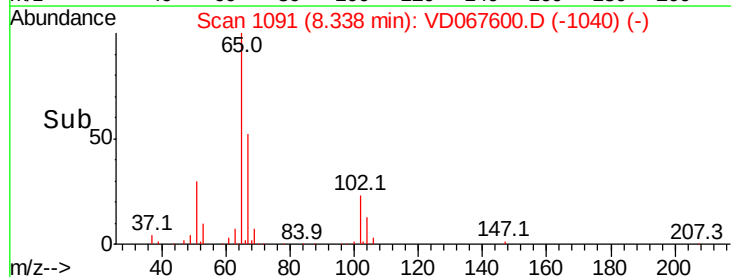
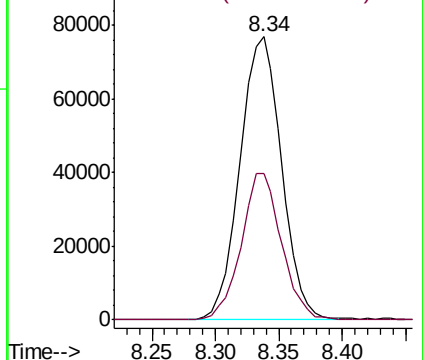


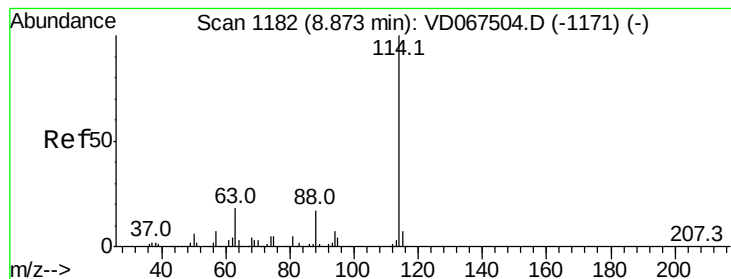
#33
1,2-Dichloroethane-d4
Concen: 52.591 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

Tgt Ion: 65 Resp: 175275
Ion Ratio Lower Upper
65 100
67 50.1 0.0 99.4



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. -0.01 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

72-11978

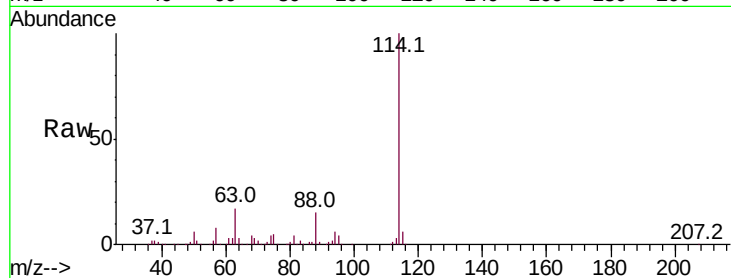
Tot Ion:114 Resp: 601306

Ion Ratio Lower Upper

114 100

63 17.2 0.0 35.0

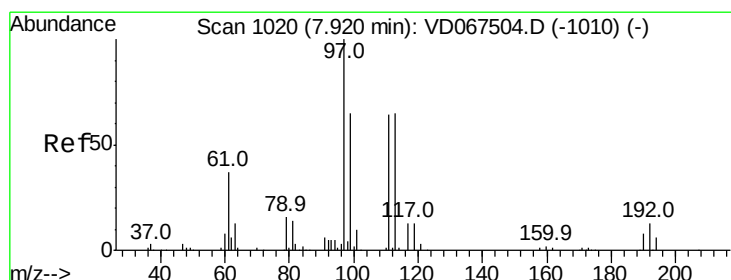
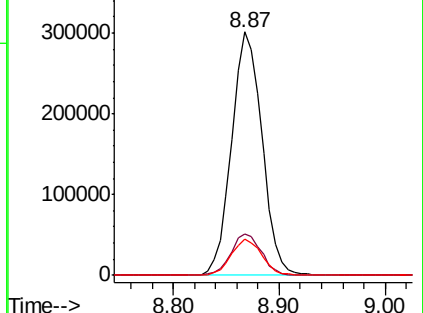
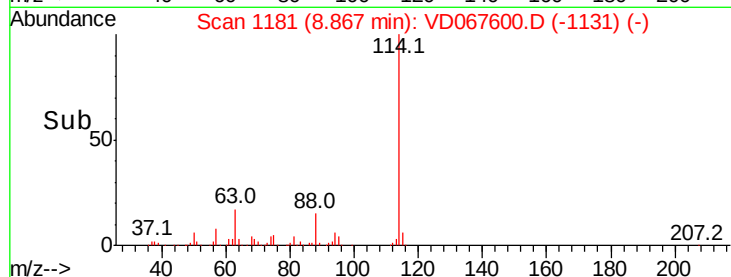
88 14.7 0.0 33.0



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: 53.770 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

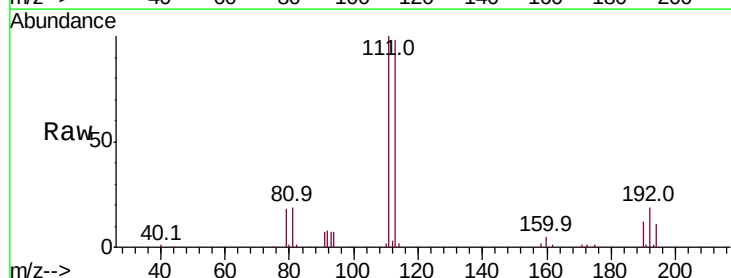
Tgt Ion:113 Resp: 194801

Ion Ratio Lower Upper

113 100

111 100.7 80.0 120.0

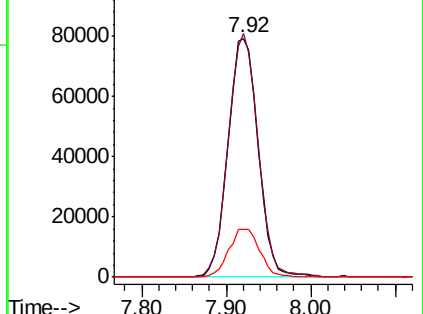
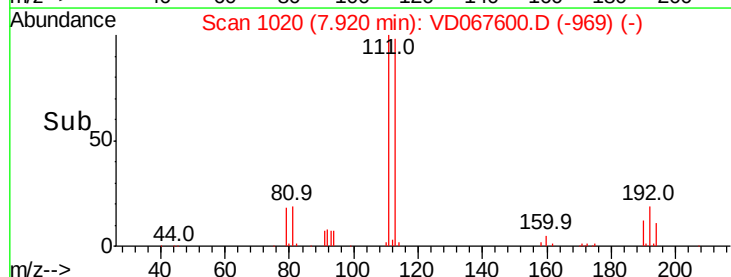
192 20.7 16.3 24.5

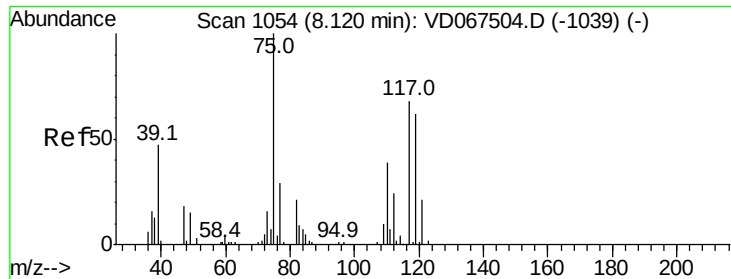


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.138 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.14 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

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72-11978

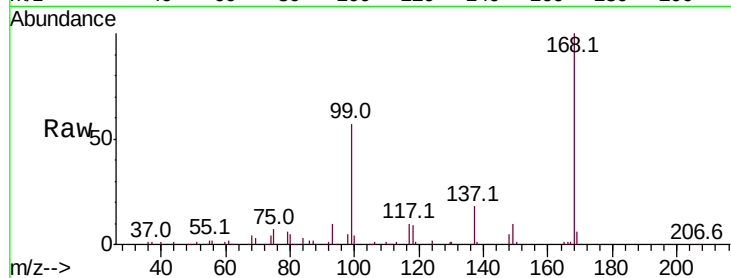
Tot Ion: 75 Resp: 26446

Ion Ratio Lower Upper

75 100

110 11.6 19.9 59.7#

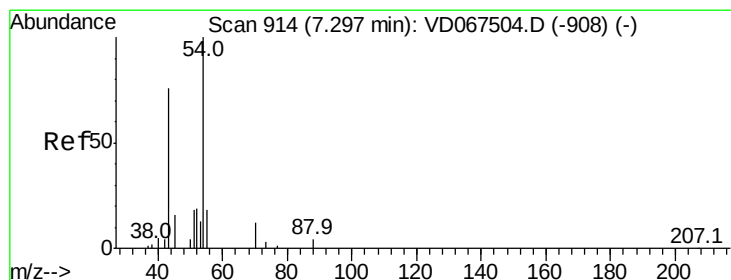
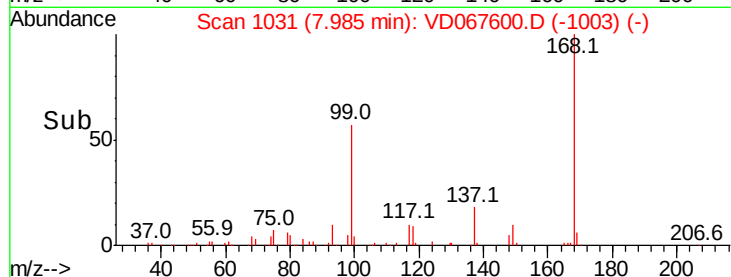
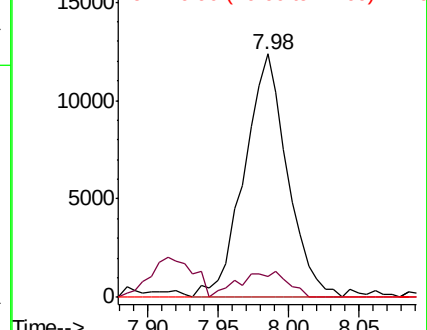
77 0.0 24.8 37.2#



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



#37

Ethyl Acetate

Concen: 9.553 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.09 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

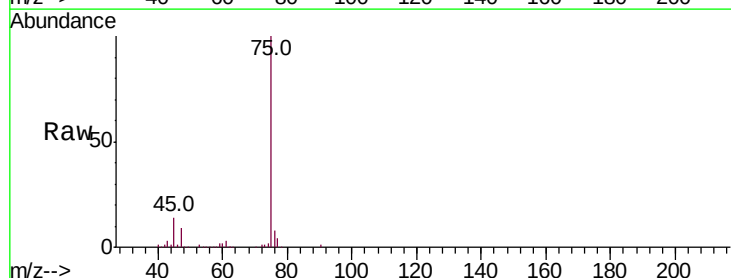
Tgt Ion: 43 Resp: 12766

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

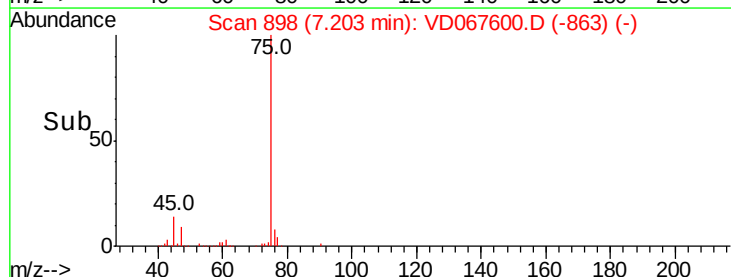
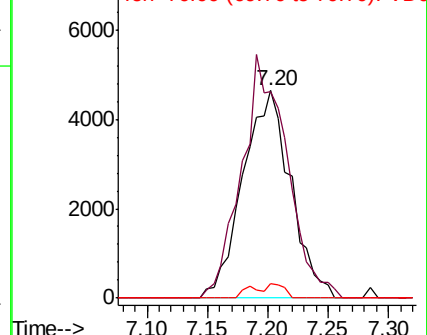
70 2.3 11.7 17.5#

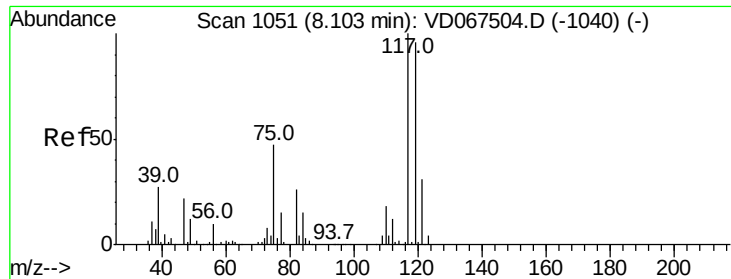


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.662 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

72-11978

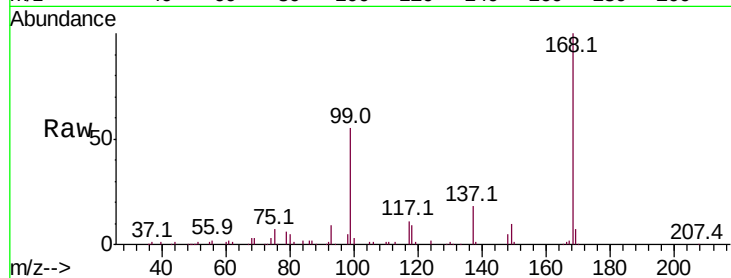
Tot Ion:117 Resp: 37864

Ion Ratio Lower Upper

117 100

119 5.5 76.9 115.3#

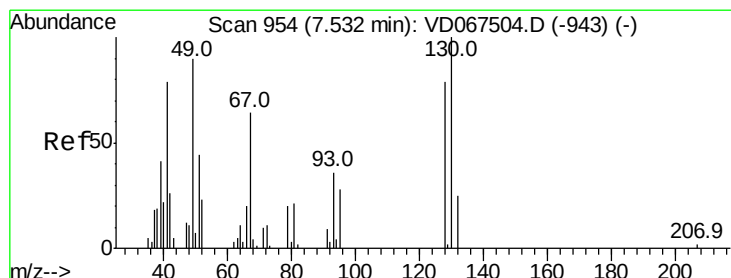
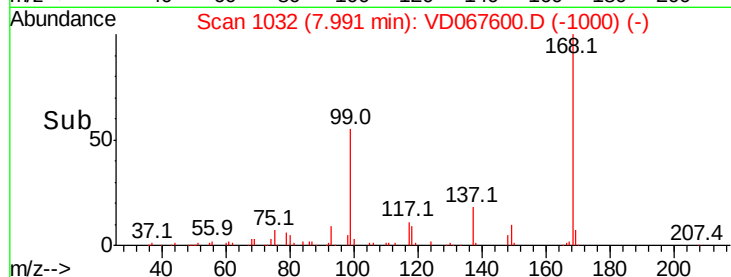
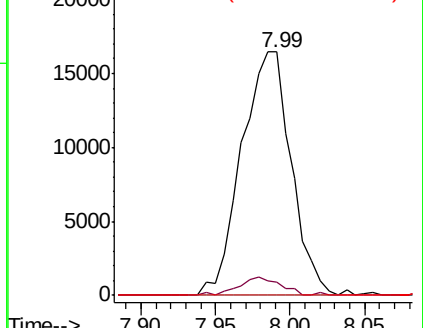
121 0.0 24.5 36.7#



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



#41

Methacrylonitrile

Concen: 2.395 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.04 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

Tgt Ion: 41 Resp: 1913

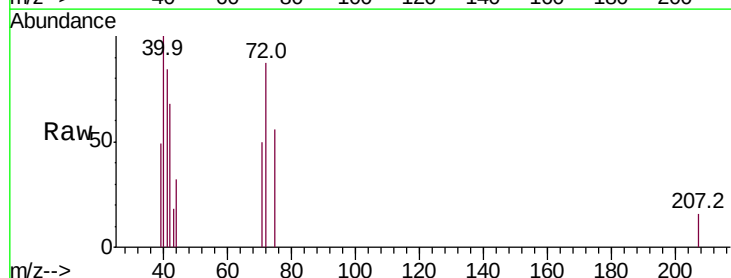
Ion Ratio Lower Upper

41 100

39 27.8 51.3 76.9#

67 0.0 78.9 118.3#

52 0.0 31.4 47.2#

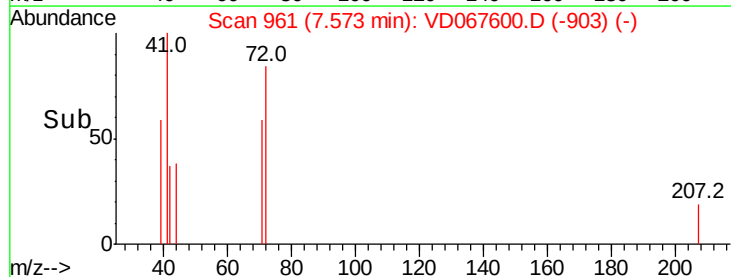
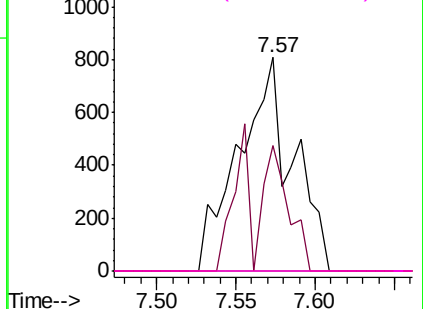


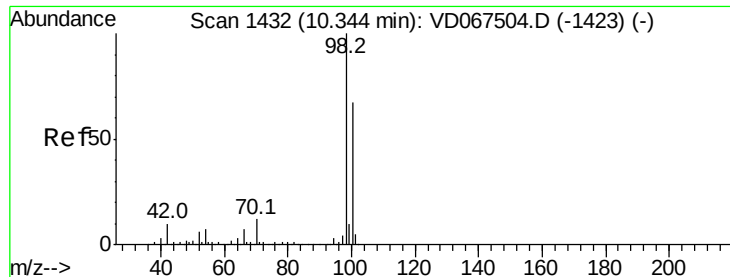
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

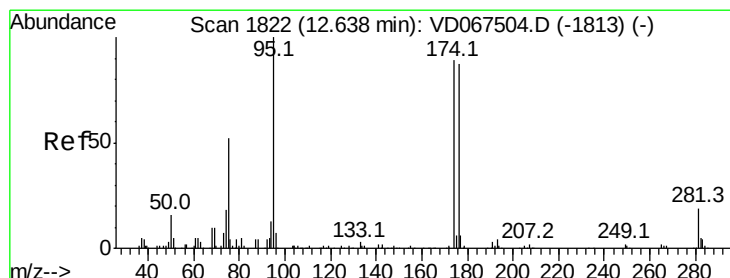
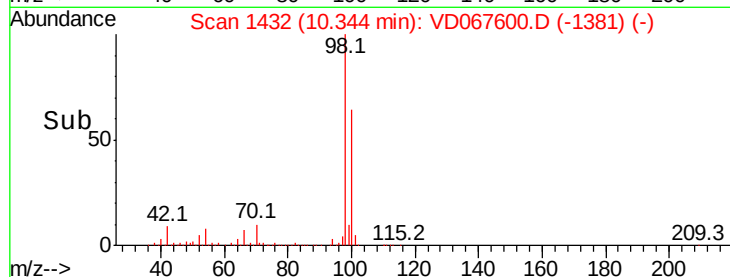
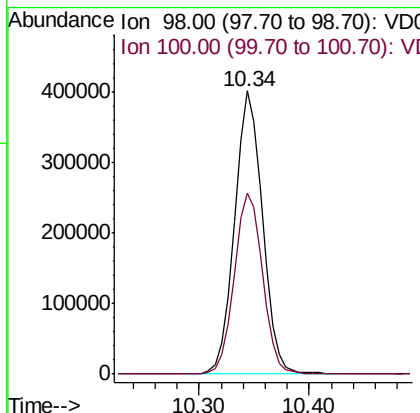
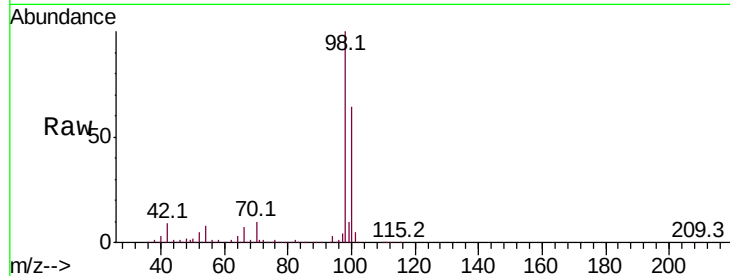




#50
Toluene-d8
Concen: 56.136 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

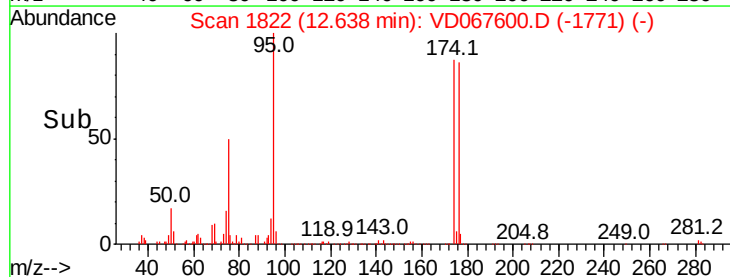
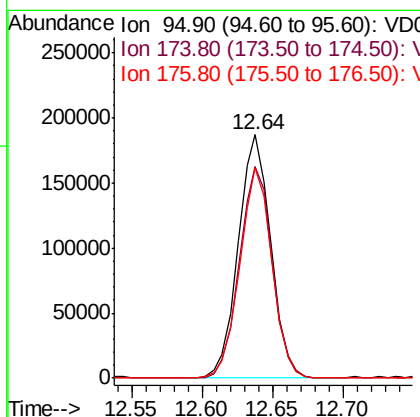
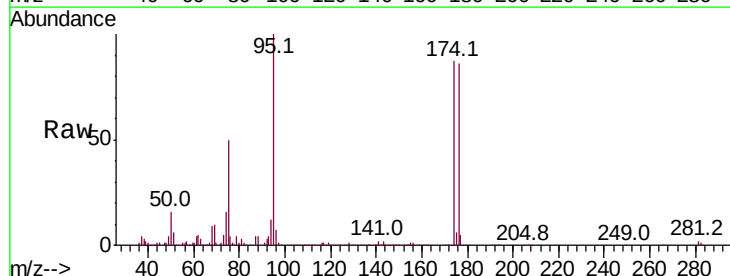
Instrument :
MSVOA_D
ClientSampleId :
72-11978

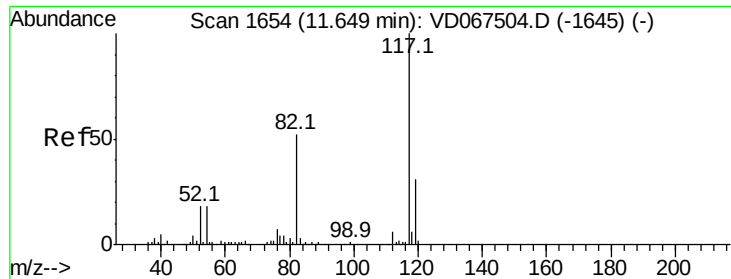
Tot Ion: 98 Resp: 714696
Ion Ratio Lower Upper
98 100
100 65.1 53.0 79.6



#62
4-Bromofluorobenzene
Concen: 67.898 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

Tgt Ion: 95 Resp: 298446
Ion Ratio Lower Upper
95 100
174 88.2 0.0 177.8
176 85.9 0.0 172.0

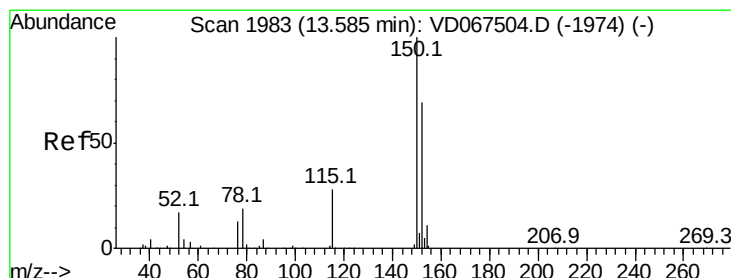
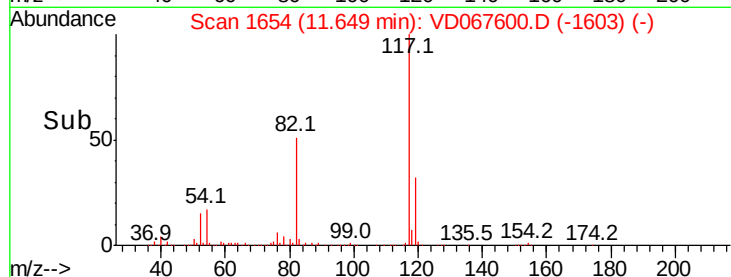
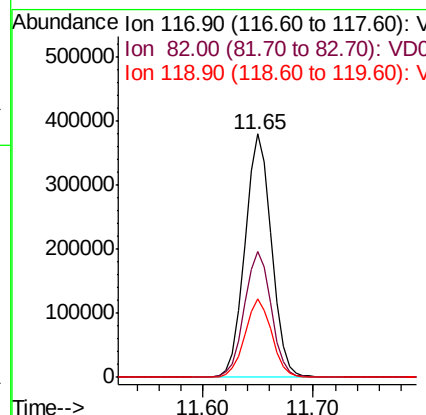
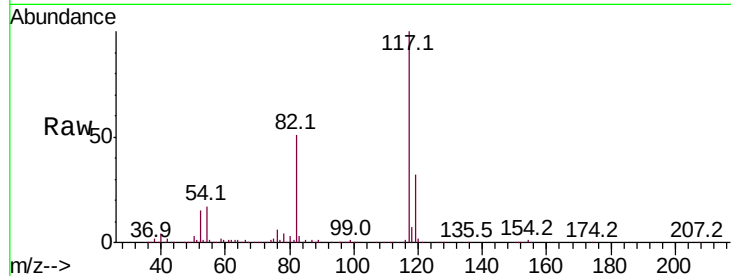




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

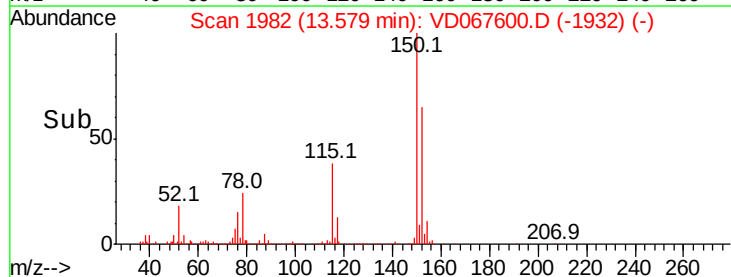
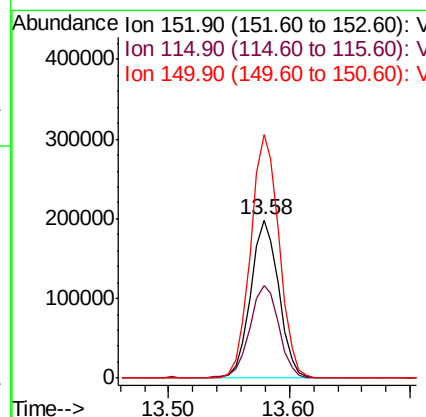
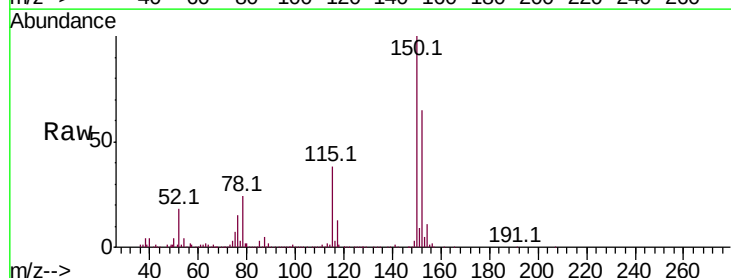
Instrument :
MSVOA_D
ClientSampleId :
72-11978

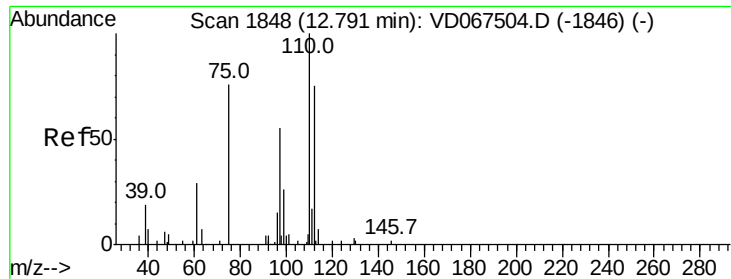
Tot Ion:117 Resp: 642532
Ion Ratio Lower Upper
117 100
82 51.4 41.6 62.4
119 32.3 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067600.D
Acq: 11 Nov 2020 14:13

Tgt Ion:152 Resp: 323686
Ion Ratio Lower Upper
152 100
115 61.2 29.3 88.0
150 155.6 0.0 338.2





#76

1,2,3-Trichloropropane

Concen: 77.674 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

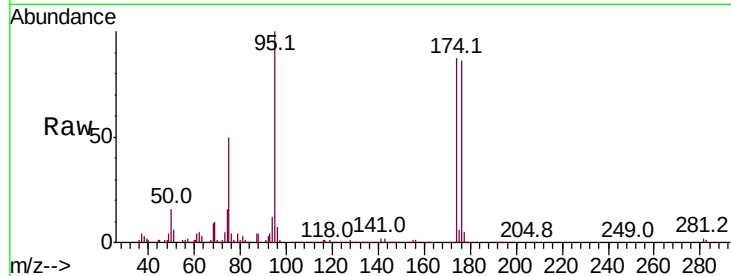
72-11978

Tot Ion: 75 Resp: 151671

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

100000

80000

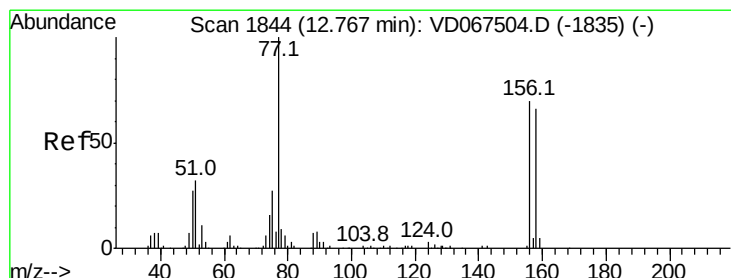
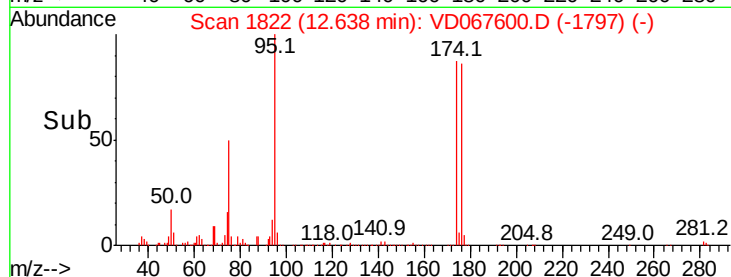
60000

40000

20000

0

Time--> 12.55 12.60 12.65 12.70



#77

Bromobenzene

Concen: 1.949 ug/l

RT: 12.57 min Scan# 1810

Delta R.T. -0.20 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

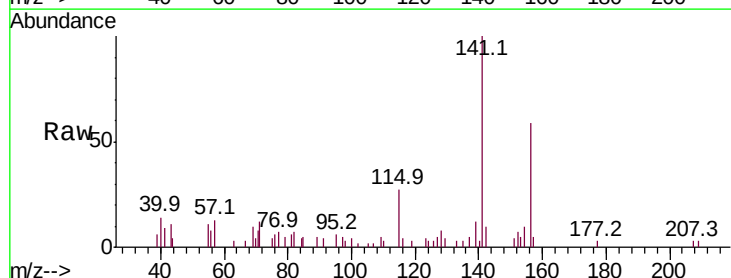
Tgt Ion: 156 Resp: 10014

Ion Ratio Lower Upper

156 100

77 6.0 77.8 233.5#

158 0.0 47.9 143.7#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V

12.57

5000

4000

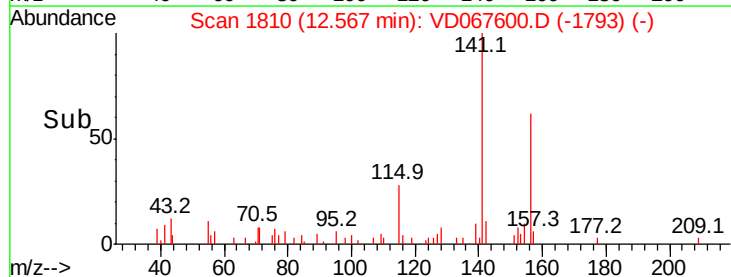
3000

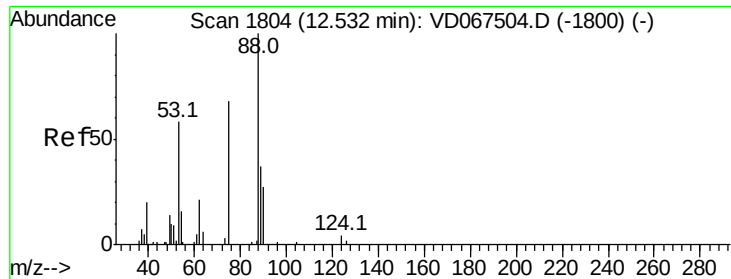
2000

1000

0

Time--> 12.50 12.60





#81

trans-1,4-Dichloro-2-butene

Concen: 157.699 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

72-11978

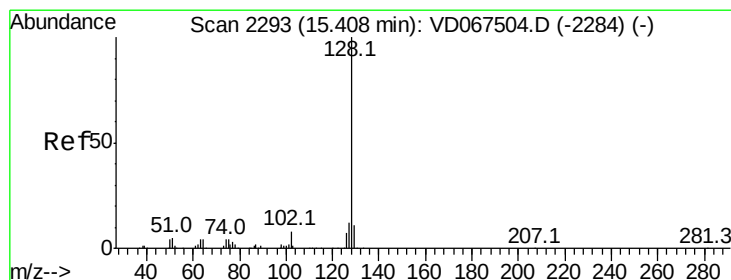
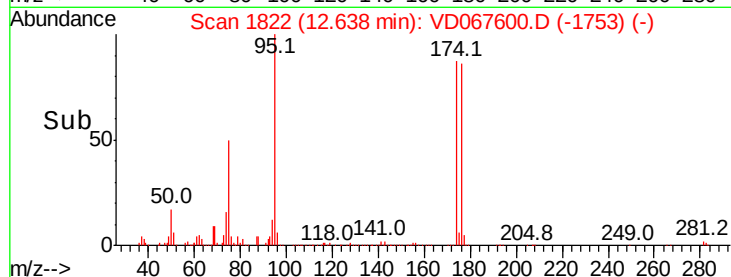
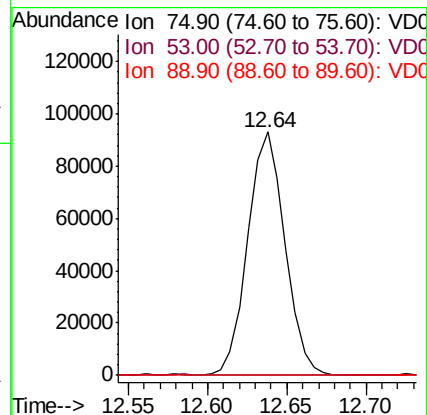
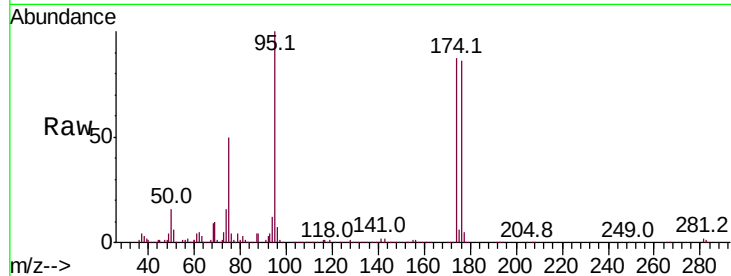
Tot Ion: 75 Resp: 151671

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

89 0.1 44.6 67.0#



#95

Naphthalene

Concen: 1.218 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD067600.D

Acq: 11 Nov 2020 14:13

Tgt Ion: 128 Resp: 10821

Ion Ratio Lower Upper

128 100

127 16.6 10.2 15.4#

129 11.1 8.9 13.3

