

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111120\
 Data File : VD067598.D
 Acq On : 11 Nov 2020 13:19
 Operator : VA/SY
 Sample : L4702-03
 Misc : 5.95G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 M-6(0-10)

Quant Time: Nov 12 00:09:01 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	300057	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	504928	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	536895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	245714	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	154197	58.77	ug/l	0.00
Spiked Amount			Recovery	=	117.54%	
35) Dibromofluoromethane	7.92	113	161318	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	
50) Toluene-d8	10.34	98	609136	56.98	ug/l	0.00
Spiked Amount			Recovery	=	113.96%	
62) 4-Bromofluorobenzene	12.64	95	241826	65.52	ug/l	0.00
Spiked Amount			Recovery	=	131.04%	

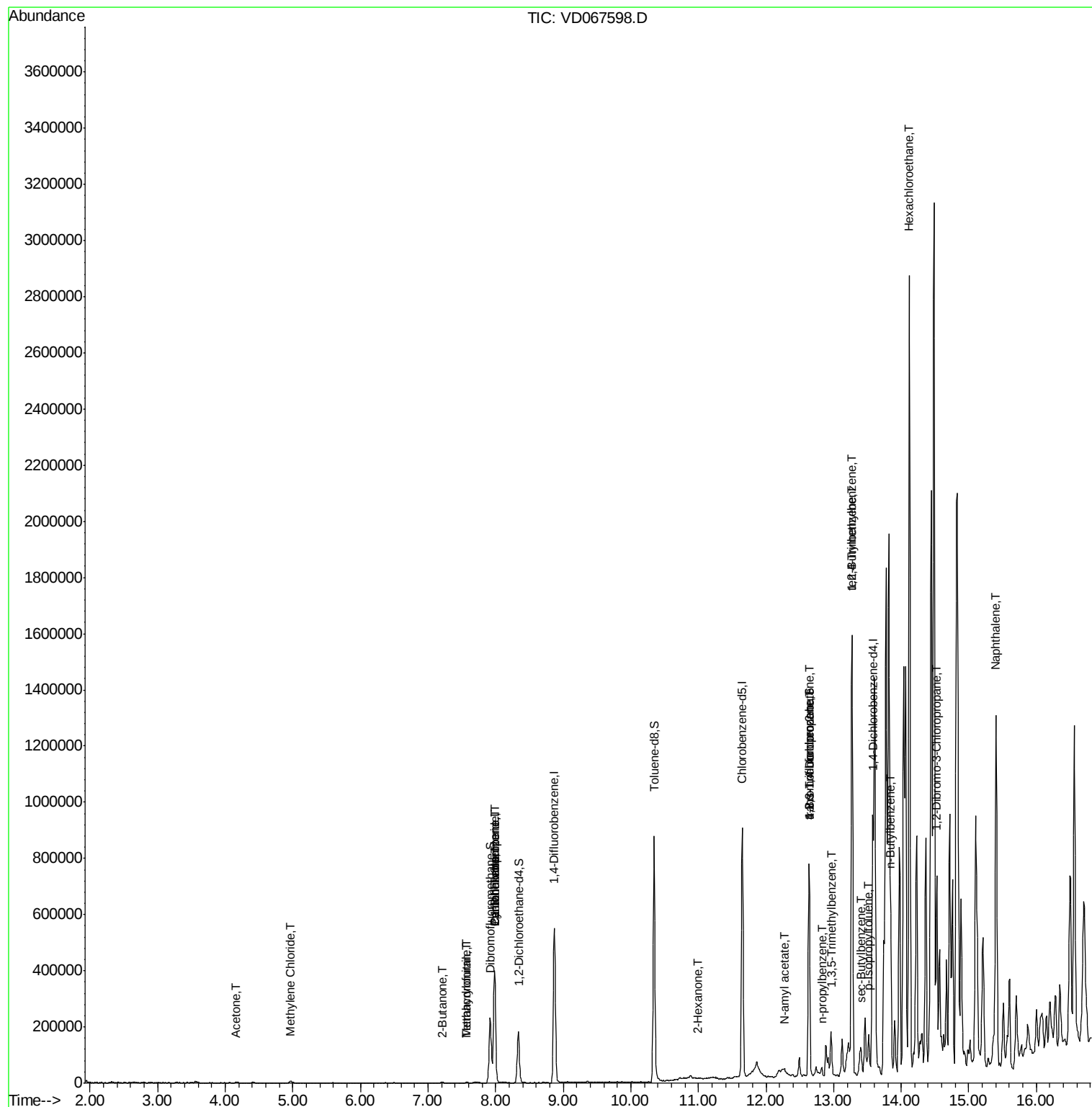
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	637	Below Cal	#	44
16) Acetone	4.16	43	4429	11.281	ug/l #	78
20) Methylene Chloride	4.96	84	4768	1.719	ug/l #	84
25) 2-Butanone	7.21	43	698	1.664	ug/l #	42
29) Tetrahydrofuran	7.56	42	1167	4.644	ug/l #	52
31) Cyclohexane	7.98	56	6060	1.593	ug/l #	11
36) 1,1-Dichloropropene	7.98	75	19948	4.615	ug/l #	51
38) Carbon Tetrachloride	7.98	117	31741	5.652	ug/l #	16
41) Methacrylonitrile	7.58	41	720	1.073	ug/l #	31
59) 2-Hexanone	10.98	43	764	1.030	ug/l #	49
74) N-amyl acetate	12.27	43	3988	1.909	ug/l #	45
76) 1,2,3-Trichloropropane	12.64	75	124869	84.241	ug/l #	100
78) n-propylbenzene	12.83	91	21055	1.159	ug/l	95
80) 1,3,5-Trimethylbenzene	12.97	105	72847	5.370	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.64	75	124869	171.031	ug/l #	10
83) tert-Butylbenzene	13.27	119	111610	9.708	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.27	105	905735	67.075	ug/l	98
85) sec-Butylbenzene	13.40	105	57538	3.707	ug/l #	58
86) p-Isopropyltoluene	13.52	119	76845	5.127	ug/l	97
89) n-Butylbenzene	13.85	91	222946	17.222	ug/l #	67
90) Hexachloroethane	14.12	117	149494	52.967	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.53	75	2083	5.433	ug/l #	1
95) Naphthalene	15.40	128	1130628	167.601	ug/l	99

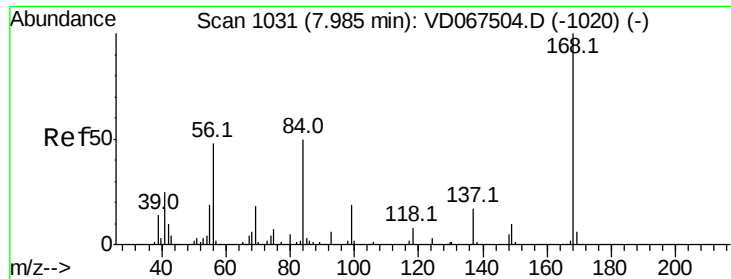
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111120\
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M-6(0-10)

Quant Time: Nov 12 00:09:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 04 00:56:28 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: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

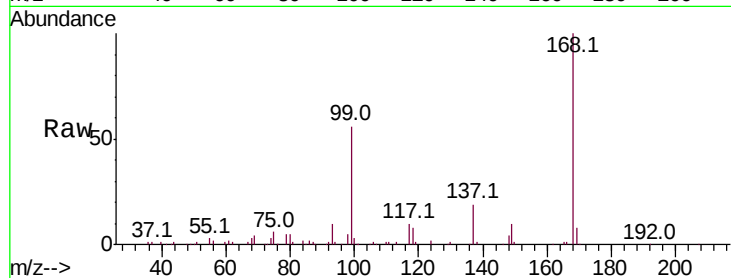
M-6(0-10)

Tot Ion:168 Resp: 300057

Ion Ratio Lower Upper

168 100

99 56.5 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

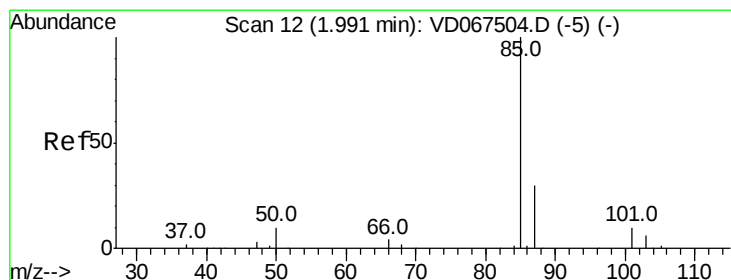
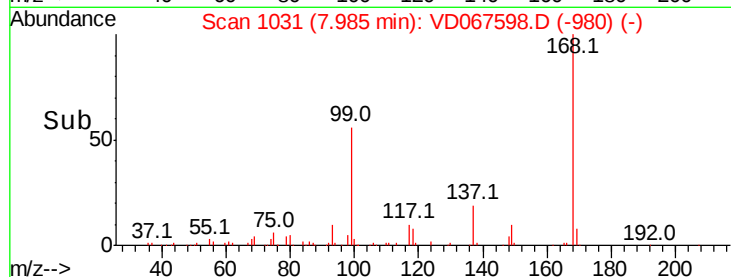
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD067598.D

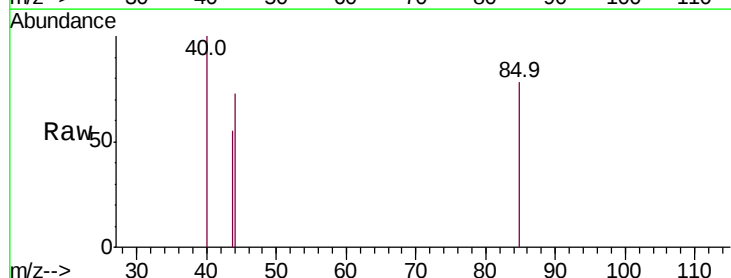
Acq: 11 Nov 2020 13:19

Tgt Ion: 85 Resp: 637

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

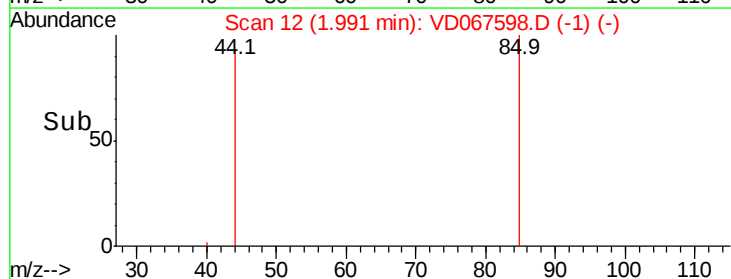
600

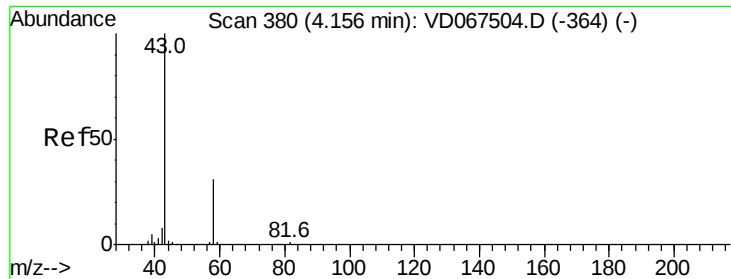
400

200

0

Time-->





#16

Acetone

Concen: 11.281 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

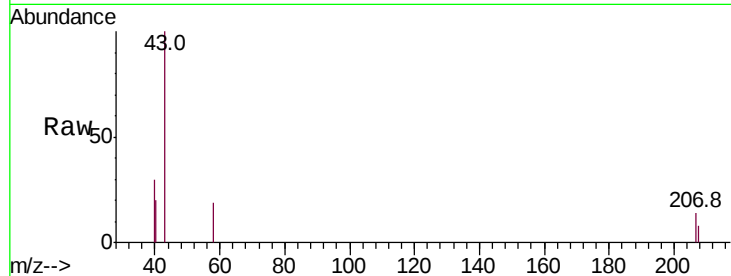
M-6(0-10)

Tot Ion: 43 Resp: 4429

Ion Ratio Lower Upper

43 100

58 19.2 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

2000

1500

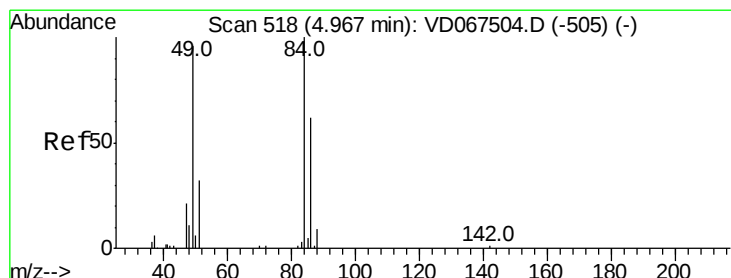
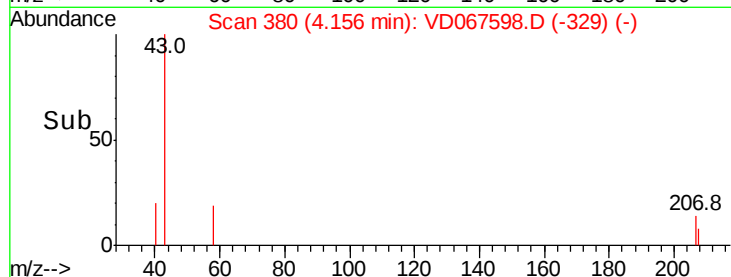
1000

500

0

4.10 4.15 4.20

Time-->



#20

Methylene Chloride

Concen: 1.719 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Tgt Ion: 84 Resp: 4768

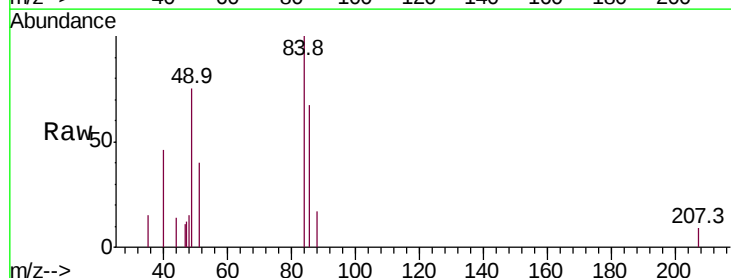
Ion Ratio Lower Upper

84 100

49 74.9 77.0 115.4#

51 39.9 25.4 38.2#

86 67.0 49.4 74.0



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

2500

2000

1500

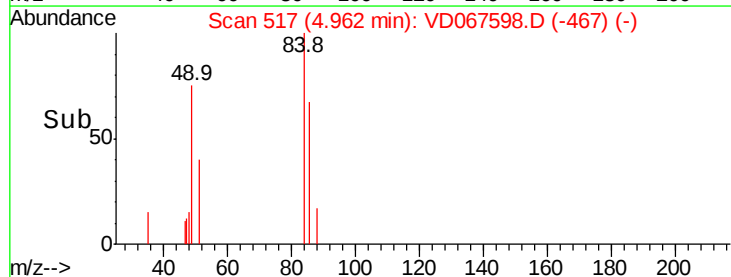
1000

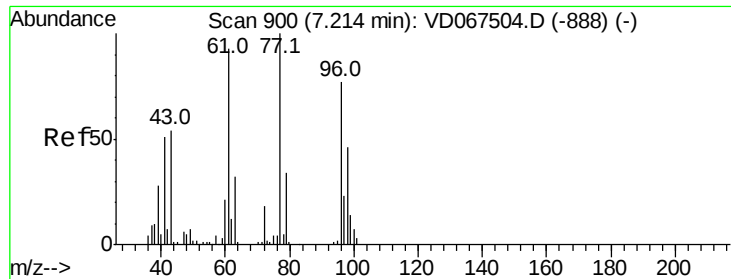
500

0

4.85 4.90 4.95 5.00 5.05

Time-->

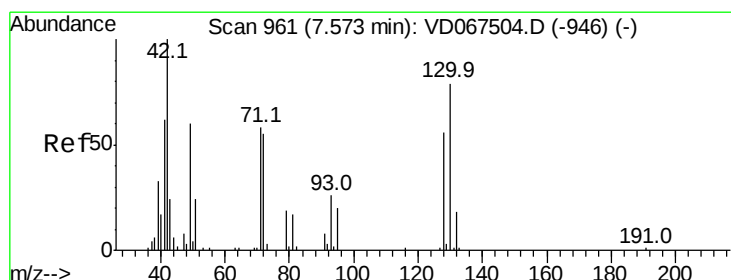
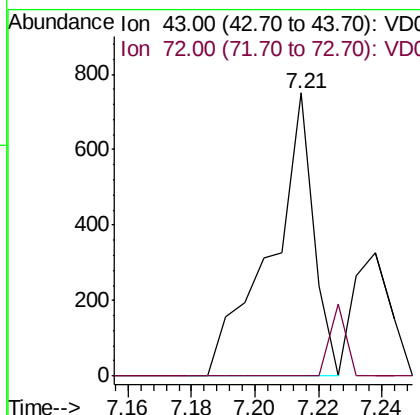
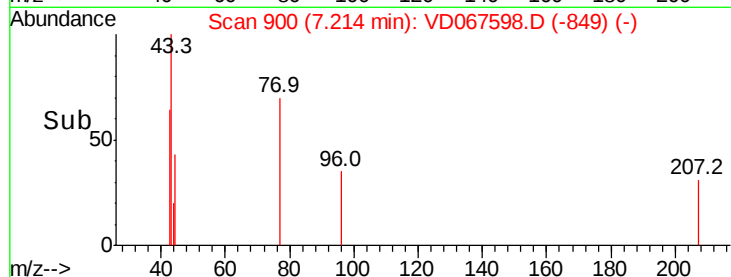
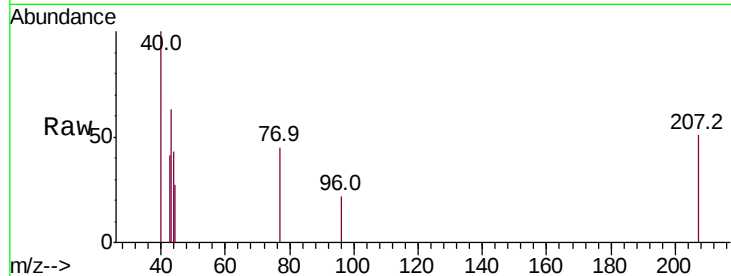




#25
2-Butanone
Concen: 1.664 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

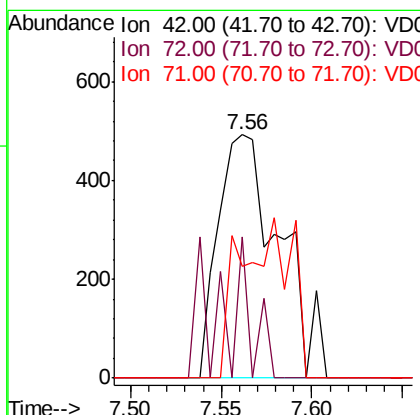
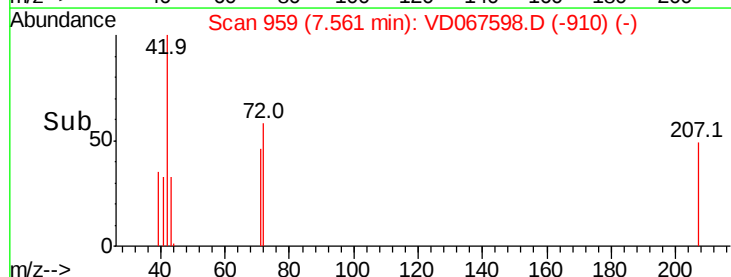
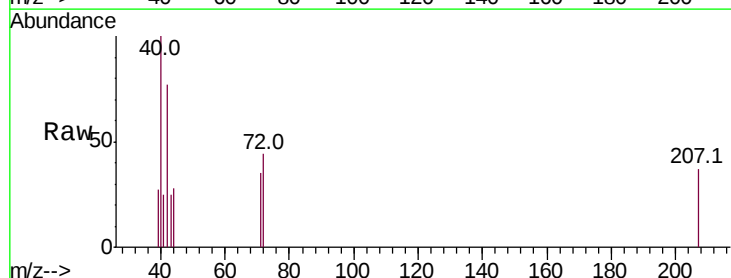
Instrument :
MSVOA_D
ClientSampleId :
M-6(0-10)

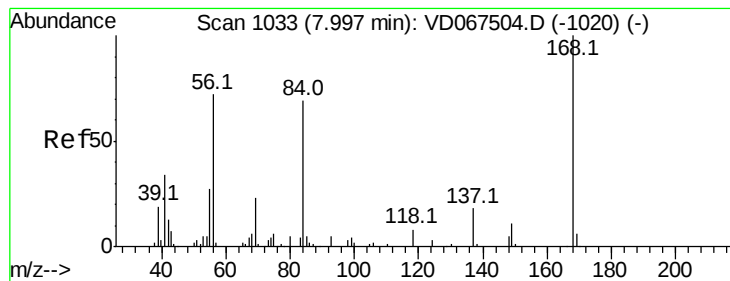
Tot Ion: 43 Resp: 698
Ion Ratio Lower Upper
43 100
72 0.0 26.4 39.6#



#29
Tetrahydrofuran
Concen: 4.644 ug/l
RT: 7.56 min Scan# 959
Delta R.T. -0.01 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

Tgt Ion: 42 Resp: 1167
Ion Ratio Lower Upper
42 100
72 13.5 46.3 69.5#
71 29.6 44.0 66.0#





#31

Cyclohexane

Concen: 1.593 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.01 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

M-6(0-10)

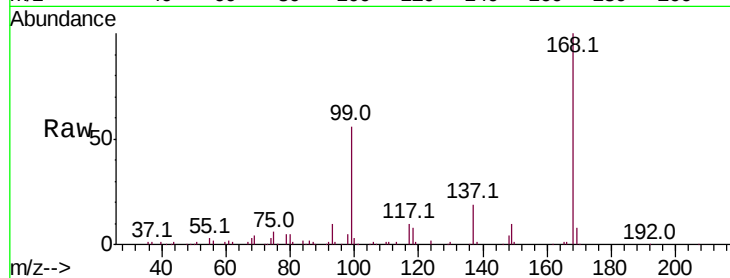
Tot Ion: 56 Resp: 6060

Ion Ratio Lower Upper

56 100

69 182.0 25.9 38.9#

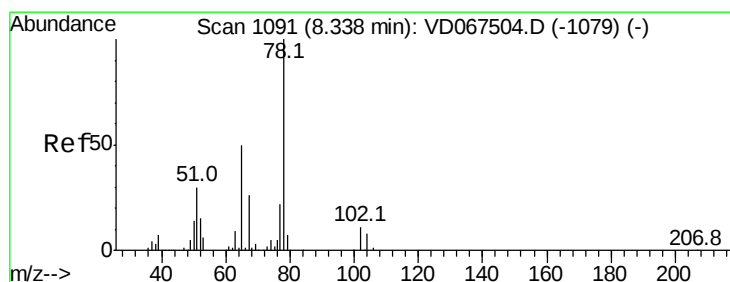
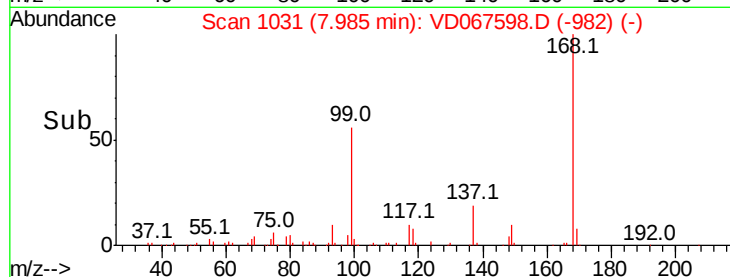
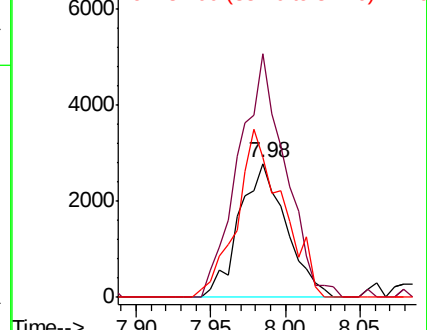
84 123.3 76.2 114.4#



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: 58.772 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067598.D

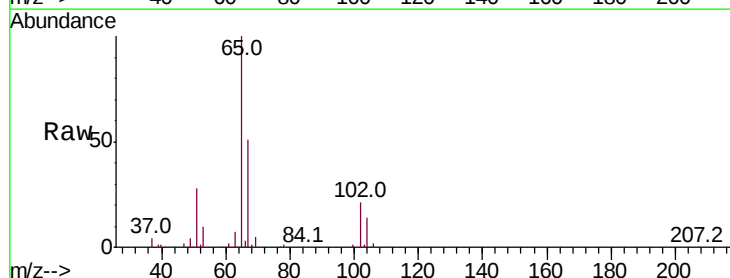
Acq: 11 Nov 2020 13:19

Tgt Ion: 65 Resp: 154197

Ion Ratio Lower Upper

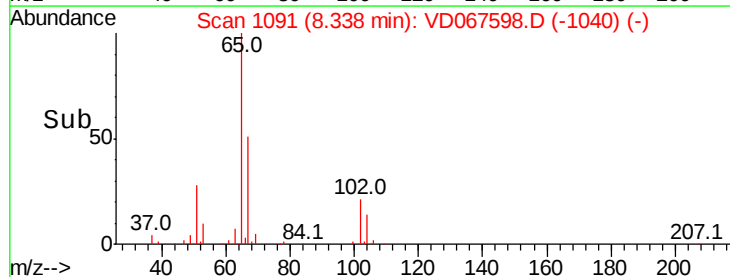
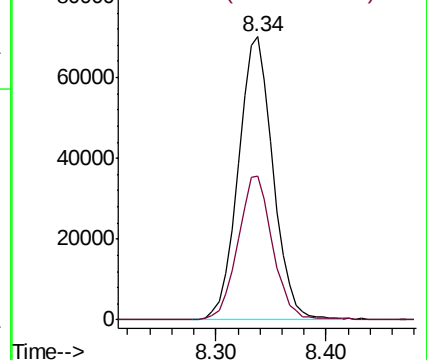
65 100

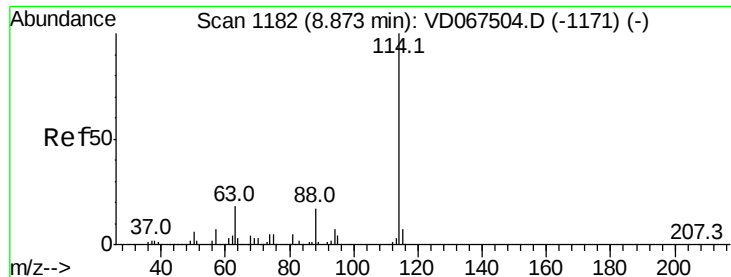
67 50.8 0.0 99.4



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: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

M-6(0-10)

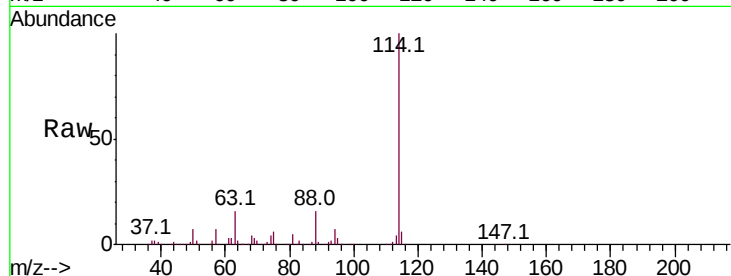
Tot Ion:114 Resp: 504928

Ion Ratio Lower Upper

114 100

63 16.3 0.0 35.0

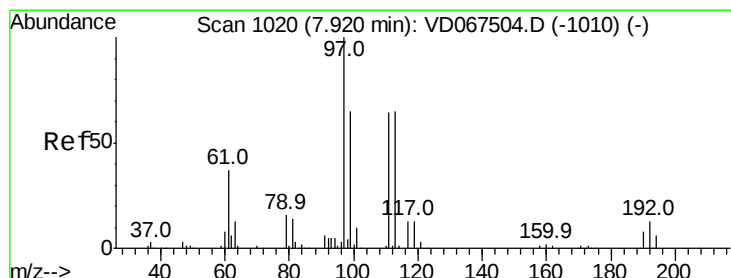
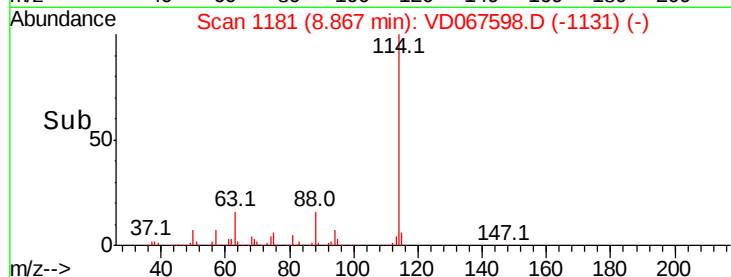
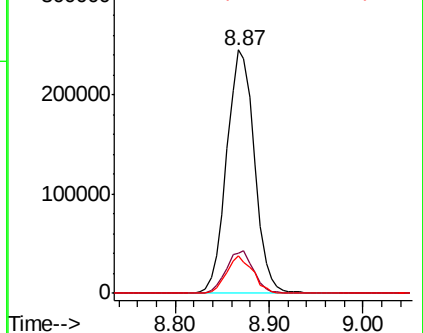
88 15.5 0.0 33.0



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: 53.027 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

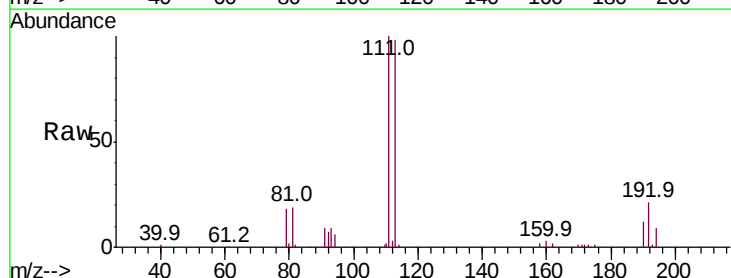
Tgt Ion:113 Resp: 161318

Ion Ratio Lower Upper

113 100

111 102.0 80.0 120.0

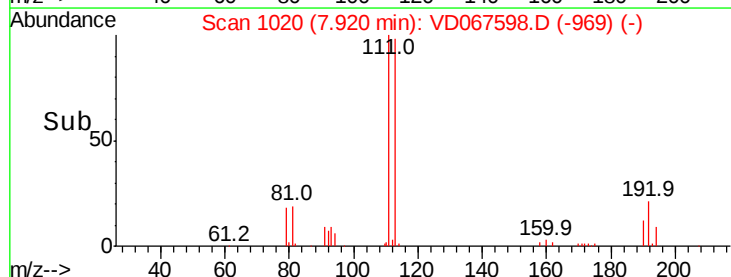
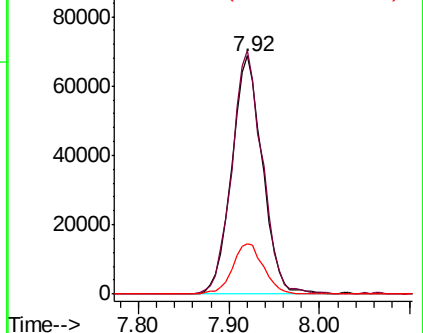
192 21.4 16.3 24.5

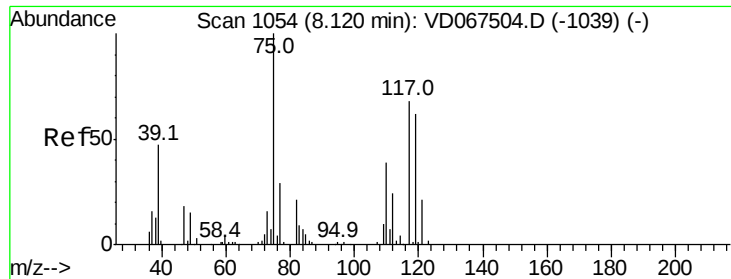


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.615 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.14 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

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ClientSampleId :

M-6(0-10)

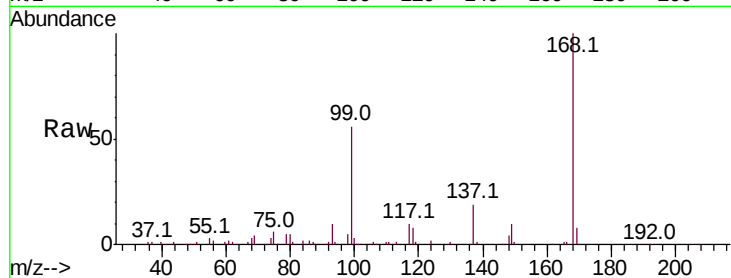
Tot Ion: 75 Resp: 19948

Ion Ratio Lower Upper

75 100

110 12.8 19.9 59.7#

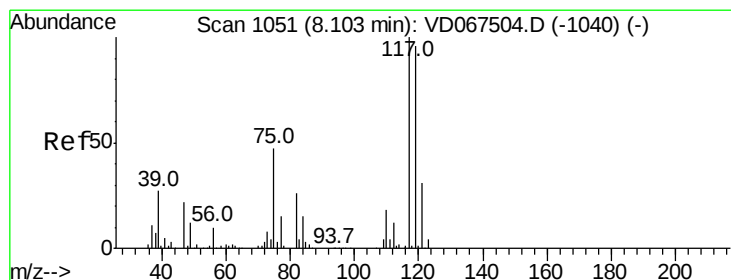
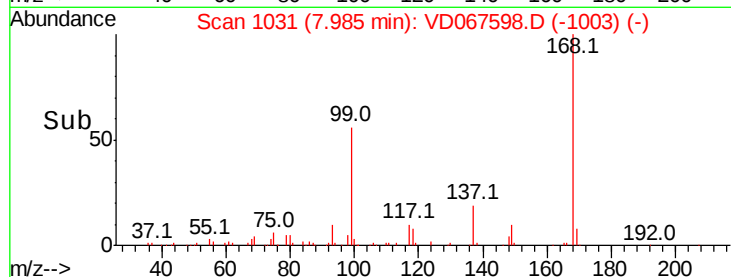
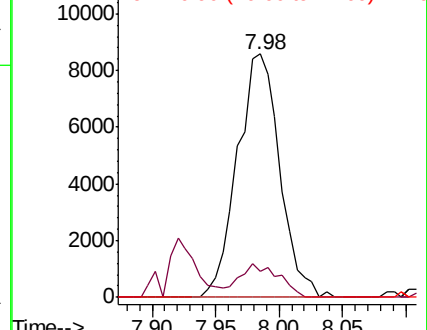
77 0.0 24.8 37.2#



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



#38

Carbon Tetrachloride

Concen: 5.652 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

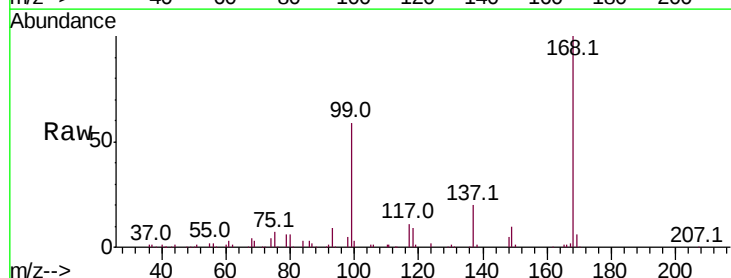
Tgt Ion: 117 Resp: 31741

Ion Ratio Lower Upper

117 100

119 4.7 76.9 115.3#

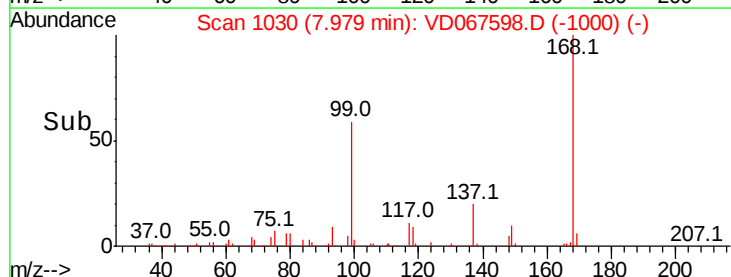
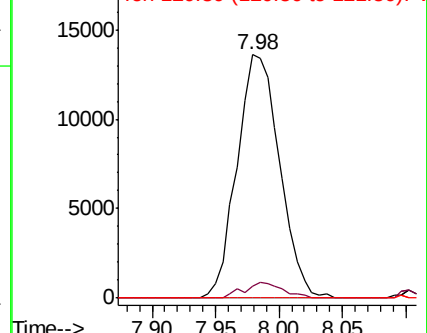
121 0.0 24.5 36.7#

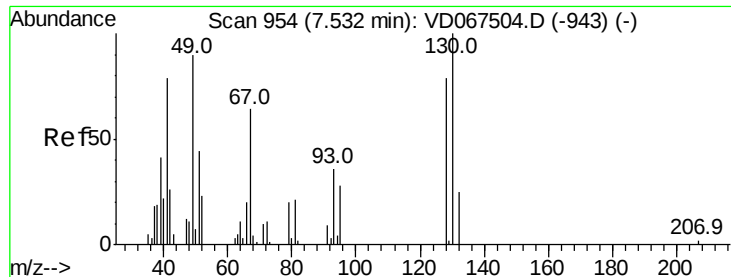


Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC

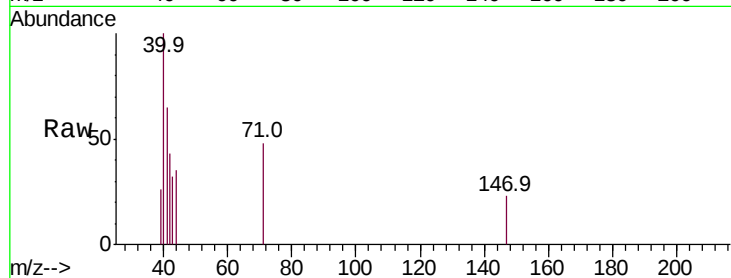




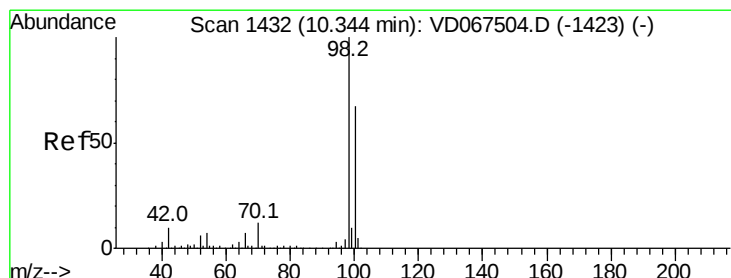
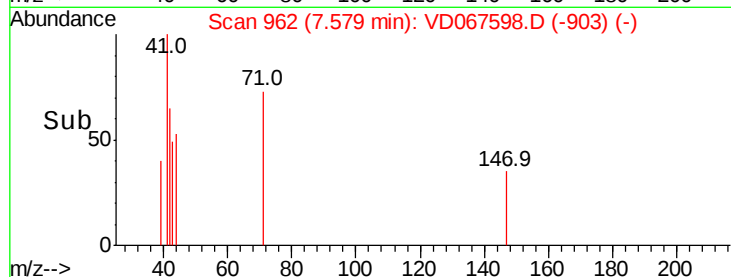
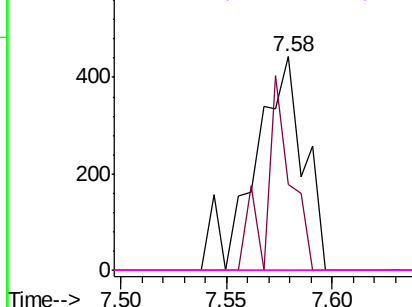
#41
Methacrylonitrile
Concen: 1.073 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.05 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

Instrument :
MSVOA_D
ClientSampleId :
M-6(0-10)

Tot Ion: 41 Resp: 720
Ion Ratio Lower Upper
41 100
39 44.9 51.3 76.9#
67 0.0 78.9 118.3#
52 0.0 31.4 47.2#

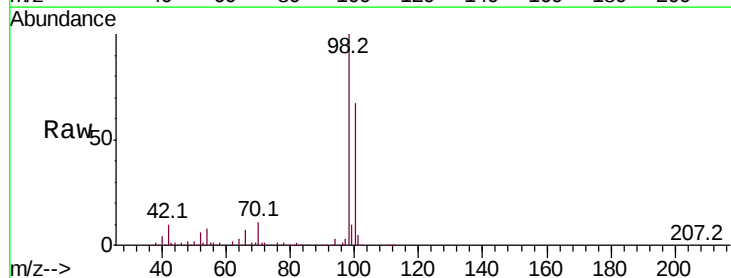


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

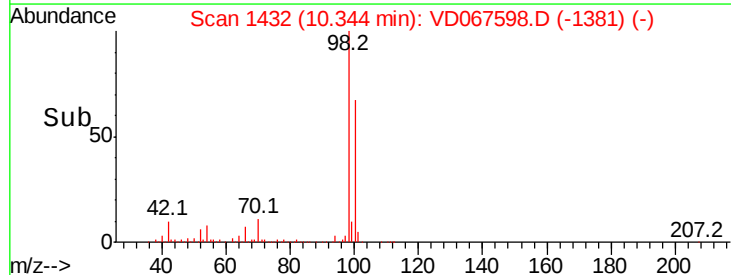
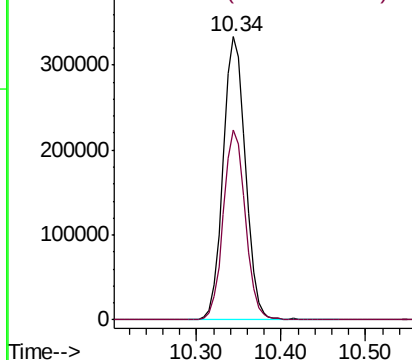


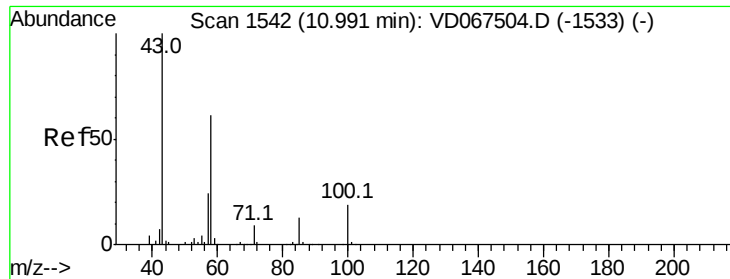
#50
Toluene-d8
Concen: 56.977 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

Tgt Ion: 98 Resp: 609136
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.6



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

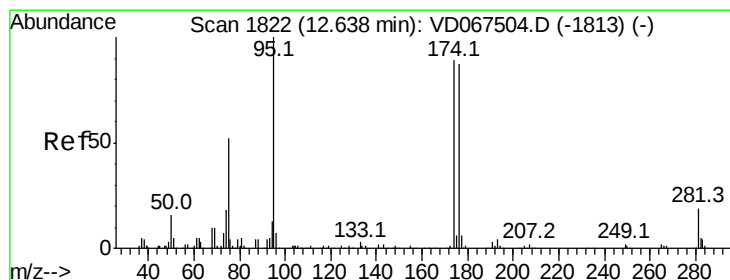
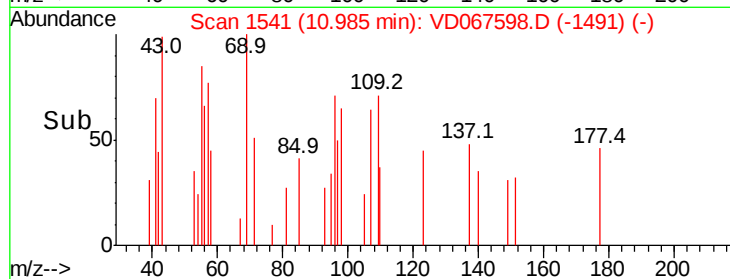
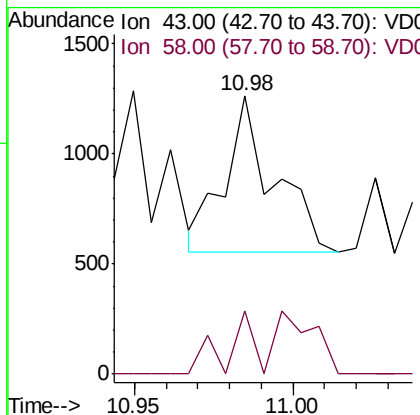
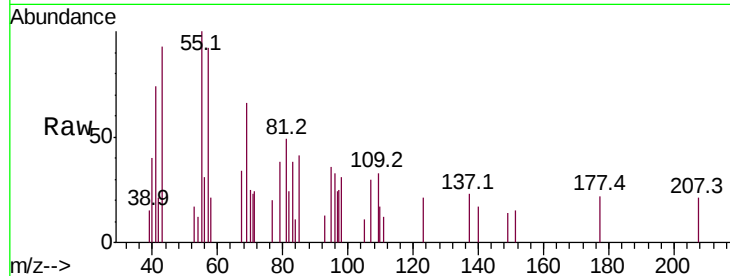




#59
2-Hexanone
Concen: 1.030 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

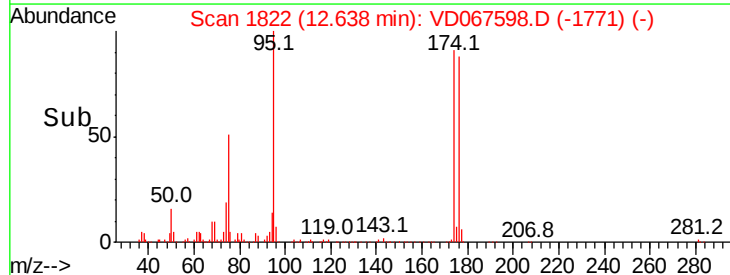
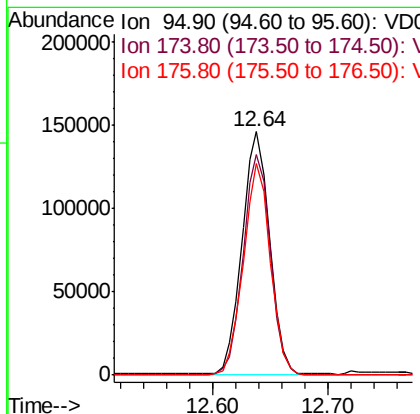
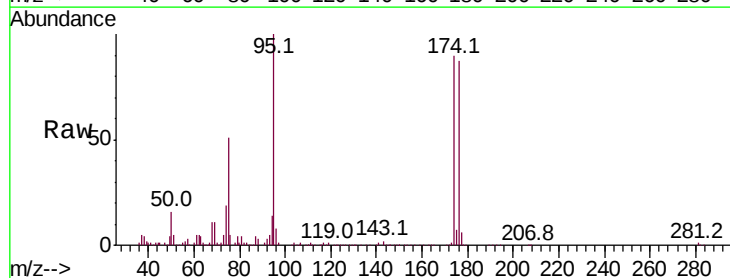
Instrument :
MSVOA_D
ClientSampled :
M-6(0-10)

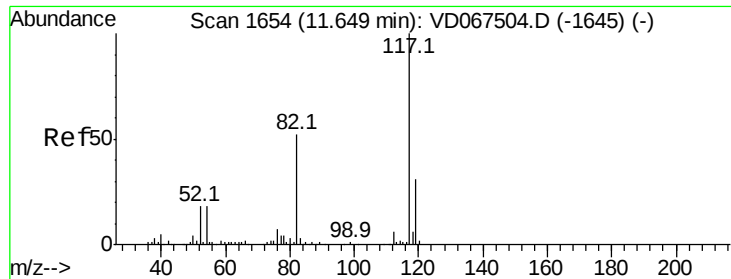
Tot Ion: 43 Resp: 764
Ion Ratio Lower Upper
43 100
58 21.5 30.3 90.9#



#62
4-Bromofluorobenzene
Concen: 65.518 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

Tgt Ion: 95 Resp: 241826
Ion Ratio Lower Upper
95 100
174 89.7 0.0 177.8
176 85.3 0.0 172.0

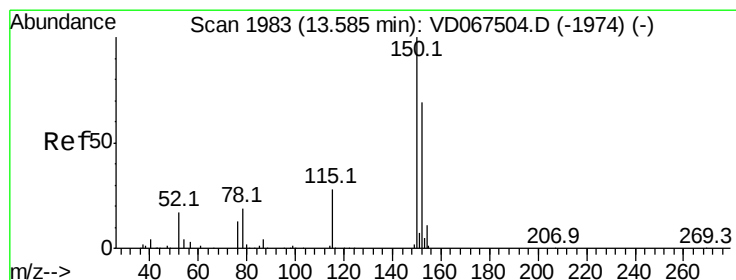
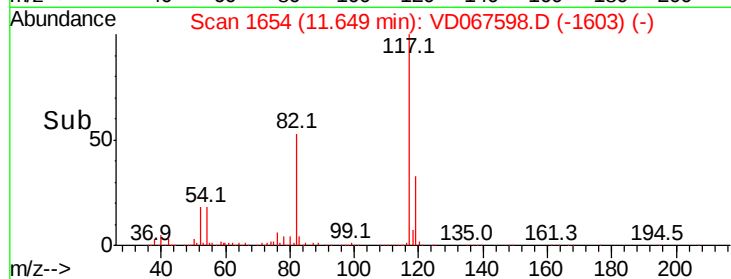
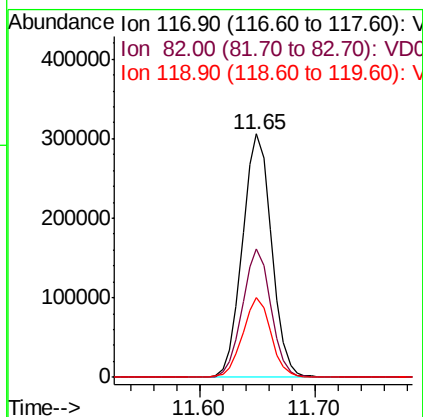
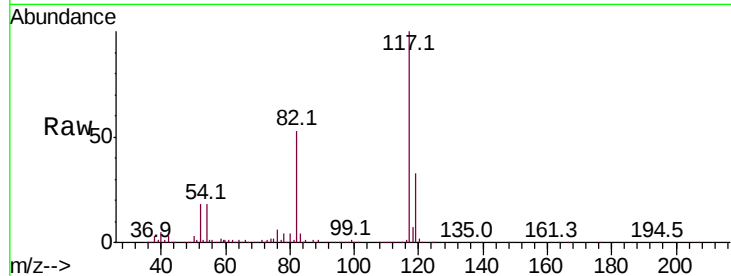




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

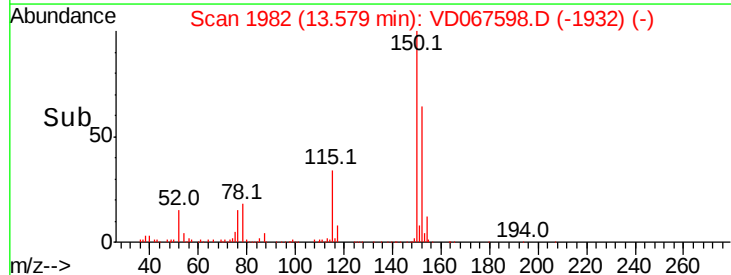
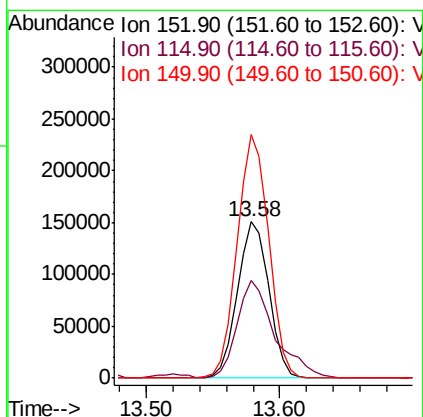
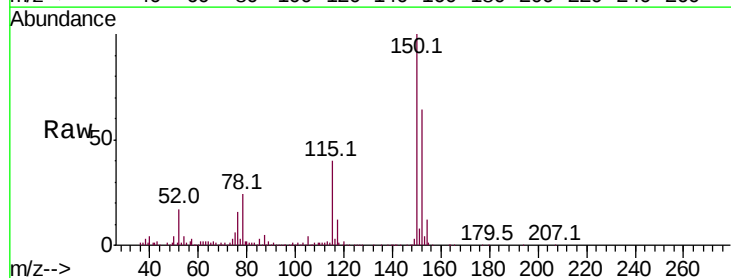
Instrument :
MSVOA_D
ClientSampleId :
M-6(0-10)

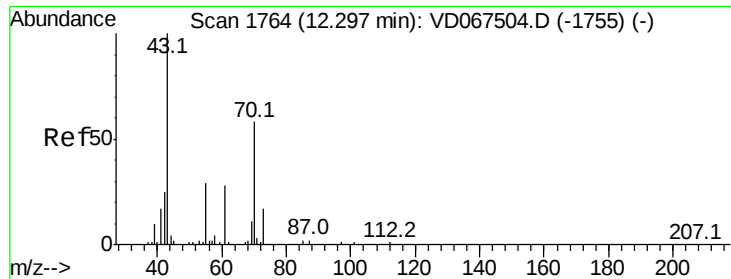
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	41.6	62.4
119	32.6	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	73.8	29.3	88.0
150	156.0	0.0	338.2





#74

N-amvl acetate

Concen: 1.909 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

M-6(0-10)

Tot Ion: 43 Resp: 3988

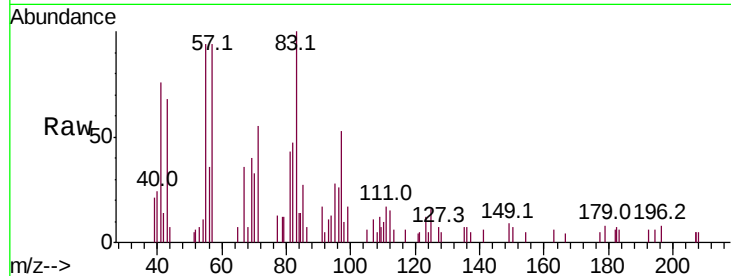
Ion Ratio Lower Upper

43 100

70 13.5 42.6 64.0#

55 0.0 23.7 35.5#

61 0.0 21.9 32.9#

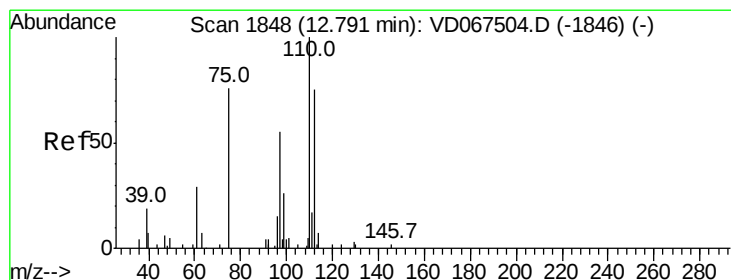
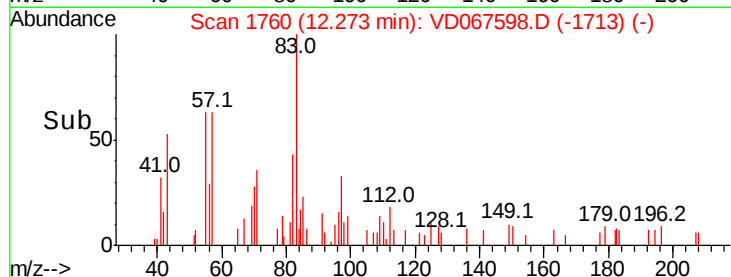
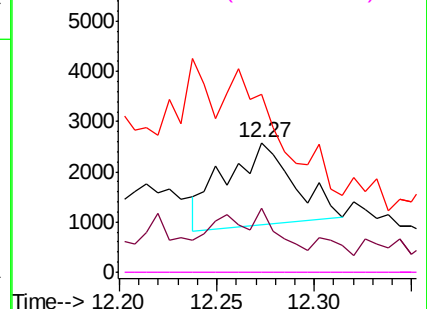


Abundance Ion 43.00 (42.70 to 43.70): VDC

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



#76

1,2,3-Trichloropropane

Concen: 84.241 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067598.D

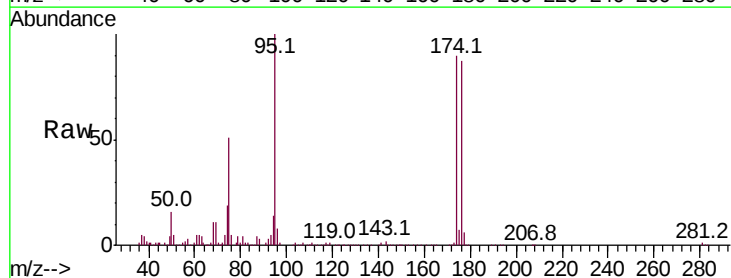
Acq: 11 Nov 2020 13:19

Tgt Ion: 75 Resp: 124869

Ion Ratio Lower Upper

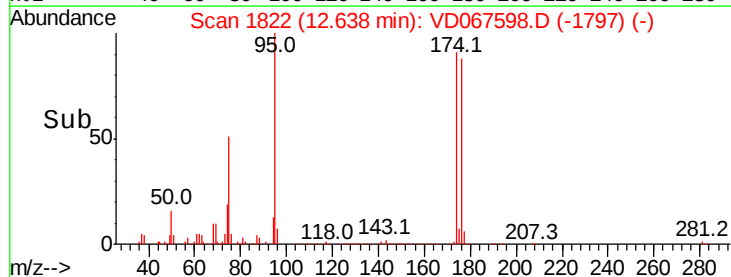
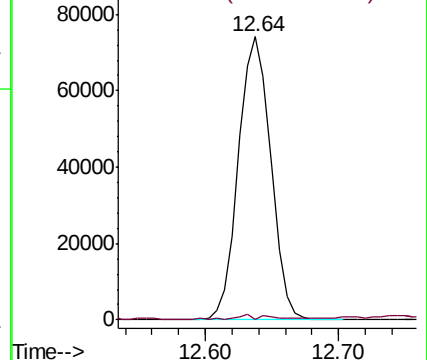
75 100

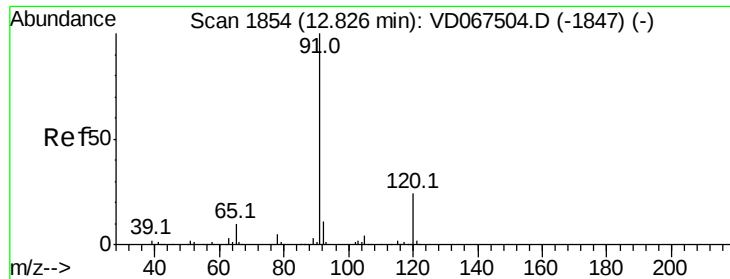
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#78

n-propylbenzene

Concen: 1.159 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

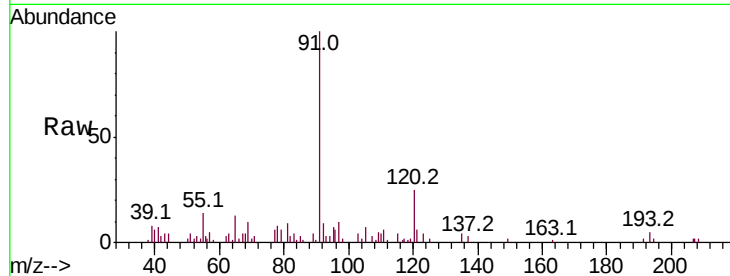
M-6(0-10)

Tot Ion: 91 Resp: 21055

Ion Ratio Lower Upper

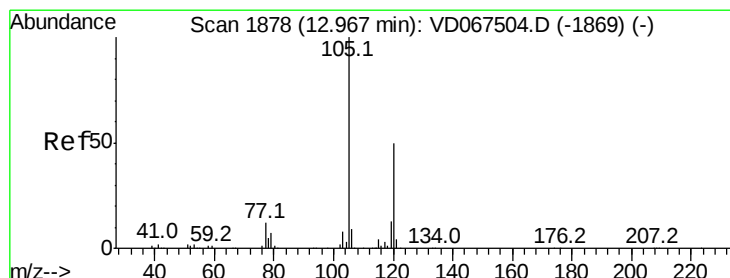
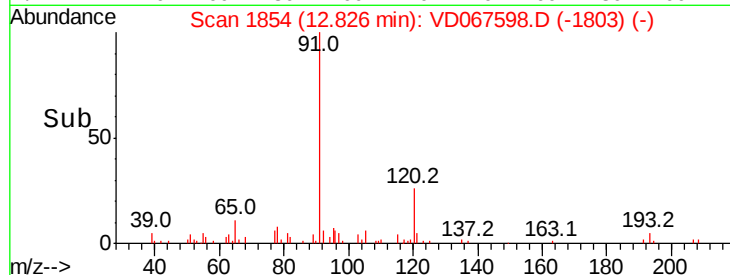
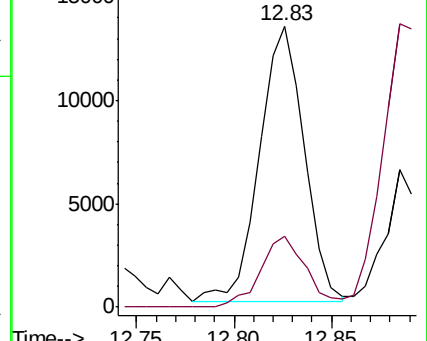
91 100

120 26.7 12.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 5.370 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD067598.D

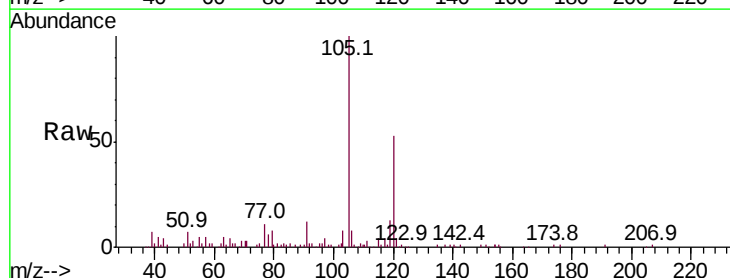
Acq: 11 Nov 2020 13:19

Tgt Ion:105 Resp: 72847

Ion Ratio Lower Upper

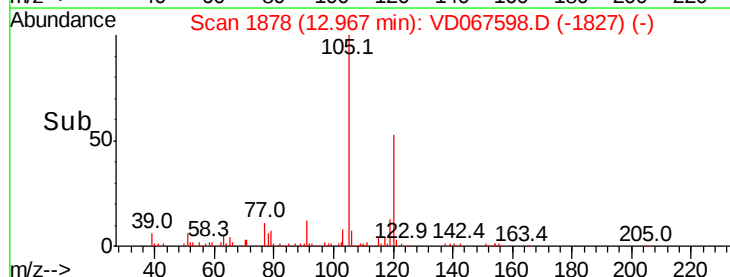
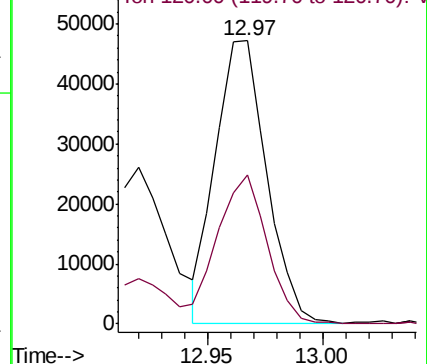
105 100

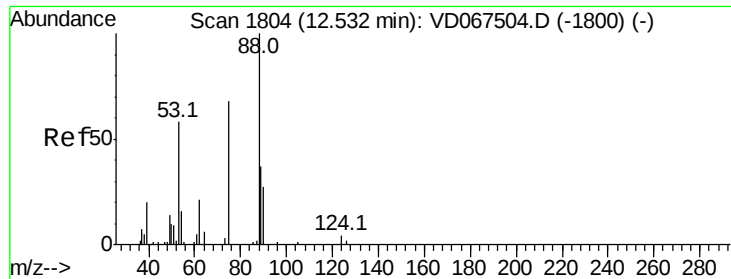
120 51.8 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 171.031 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

M-6(0-10)

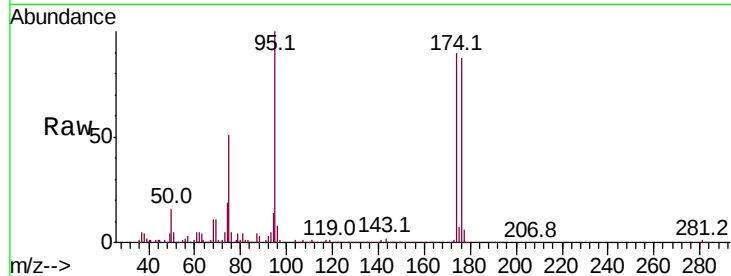
Tot Ion: 75 Resp: 124869

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

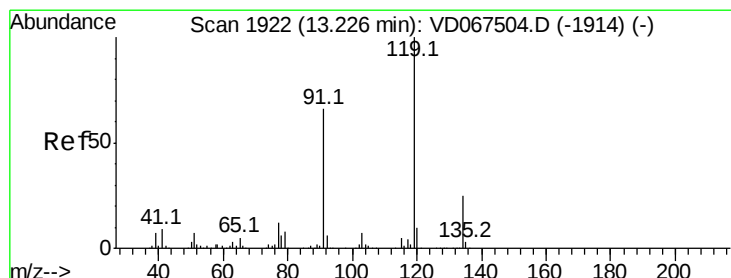
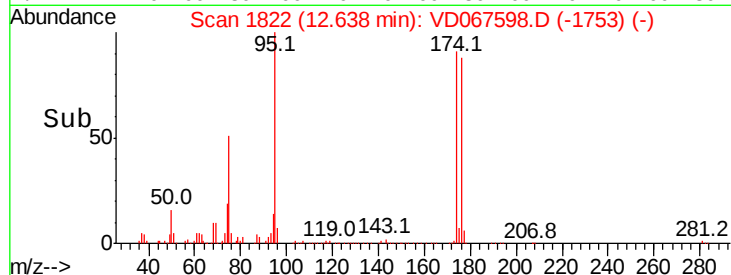
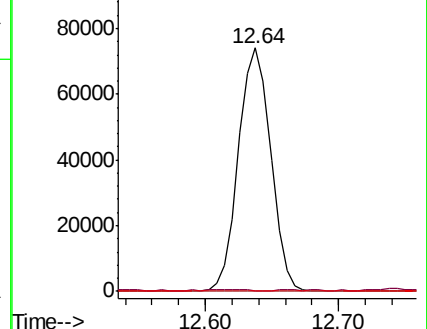
89 0.0 44.6 67.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#83

tert-Butylbenzene

Concen: 9.708 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.05 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

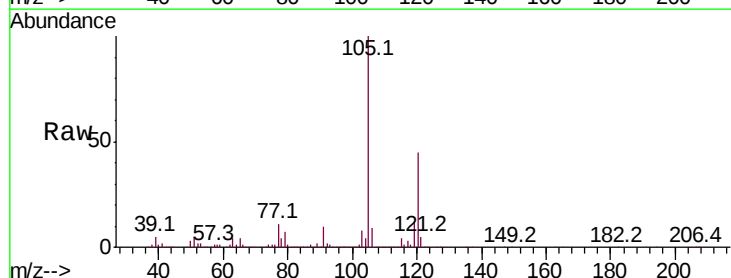
Tgt Ion: 119 Resp: 111610

Ion Ratio Lower Upper

119 100

91 89.6 32.7 98.1

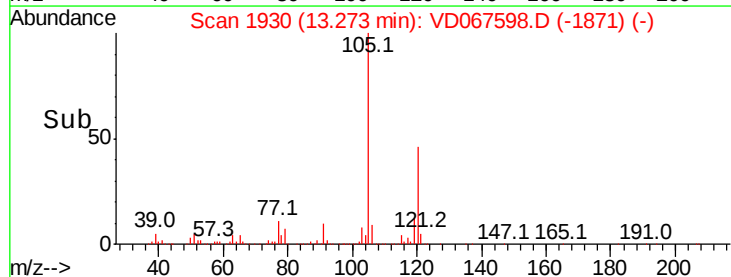
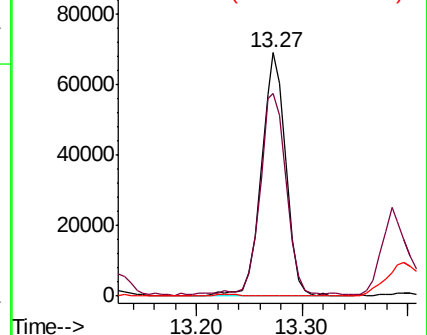
134 0.0 13.4 40.2#

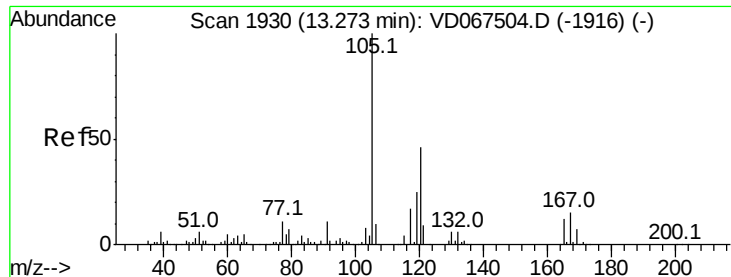


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VDC

Ion 134.00 (133.70 to 134.70): V

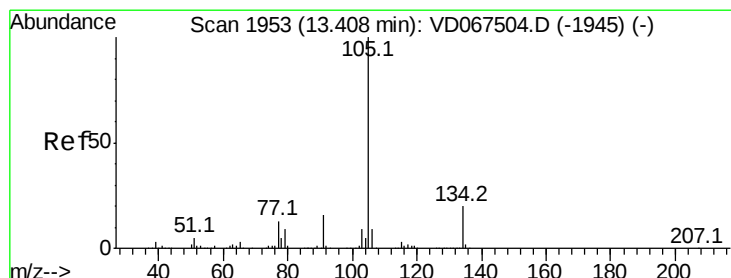
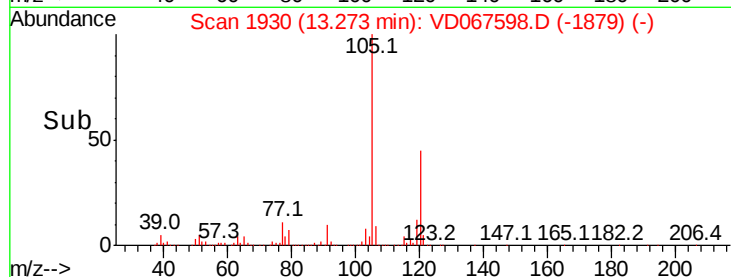
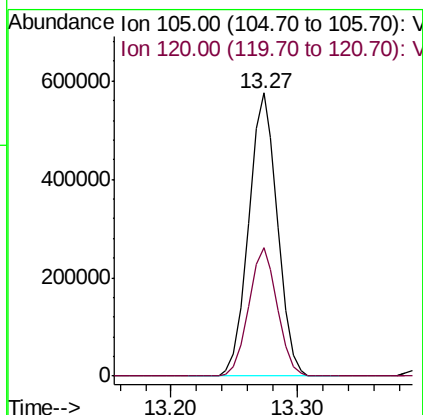
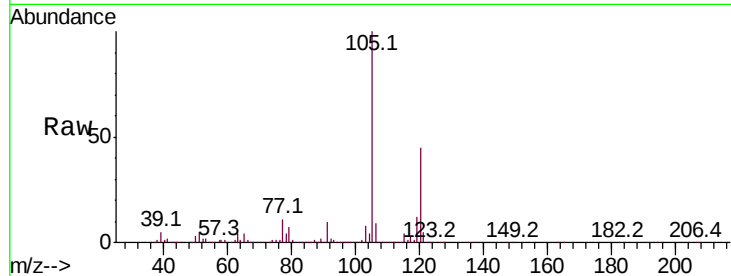




#84
1,2,4-Trimethylbenzene
Concen: 67.075 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

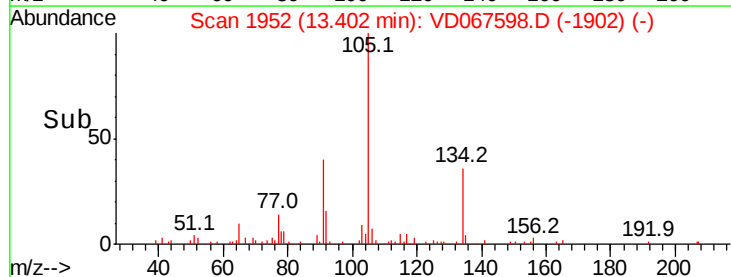
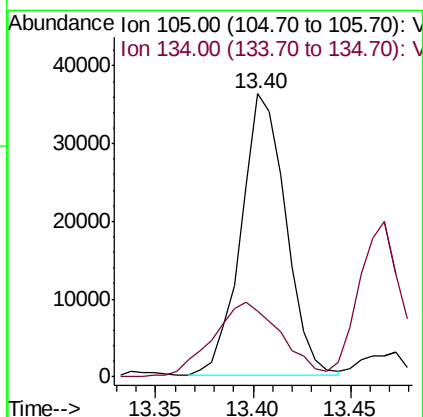
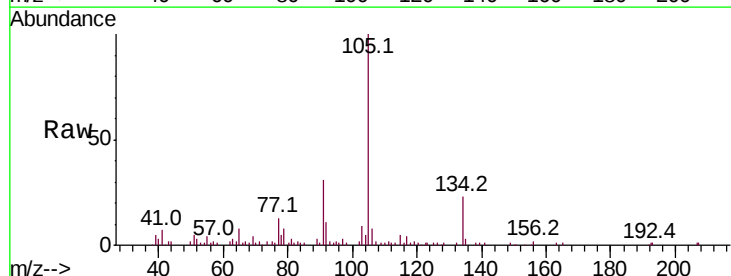
Instrument :
MSVOA_D
ClientSampleId :
M-6(0-10)

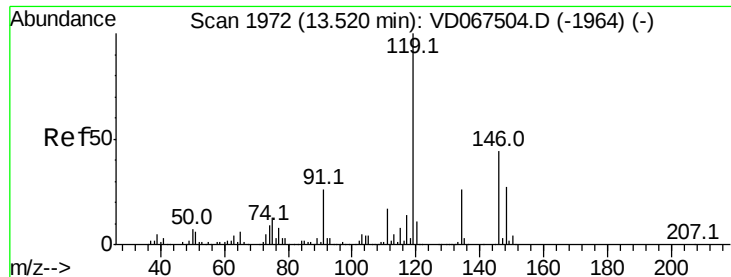
Tot Ion:105 Resp: 905735
Ion Ratio Lower Upper
105 100
120 45.3 22.1 66.1



#85
sec-Butylbenzene
Concen: 3.707 ug/l
RT: 13.40 min Scan# 1952
Delta R.T. -0.01 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

Tgt Ion:105 Resp: 57538
Ion Ratio Lower Upper
105 100
134 40.4 10.4 31.4#





#86

p-Isopropyltoluene

Concen: 5.127 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

M-6(0-10)

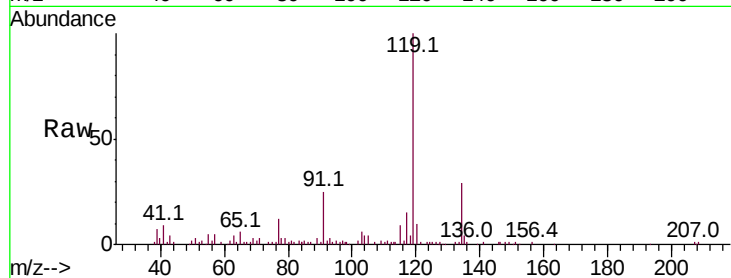
Tot Ion:119 Resp: 76845

Ion Ratio Lower Upper

119 100

134 25.4 13.1 39.3

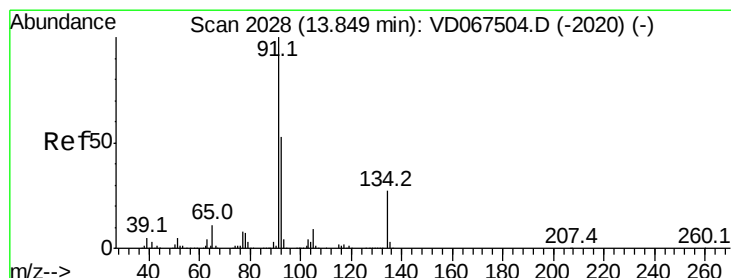
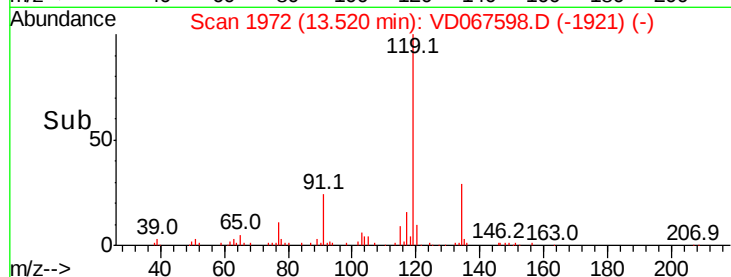
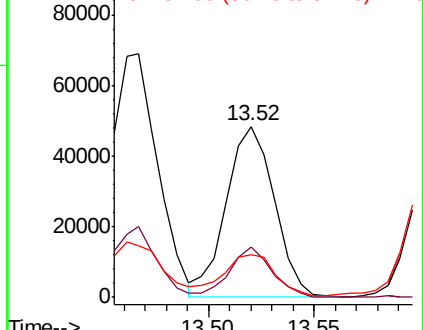
91 26.8 12.2 36.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 17.222 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

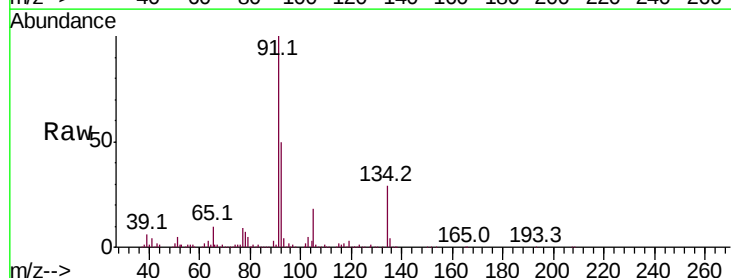
Tgt Ion: 91 Resp: 222946

Ion Ratio Lower Upper

91 100

92 69.2 26.6 79.8

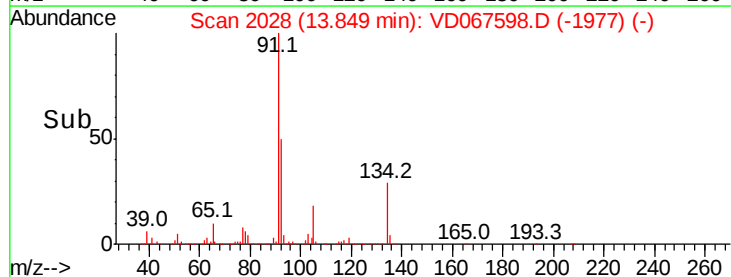
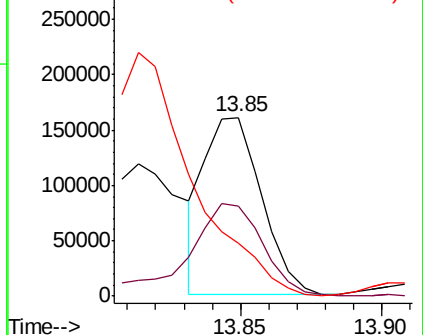
134 0.0 14.1 42.2#

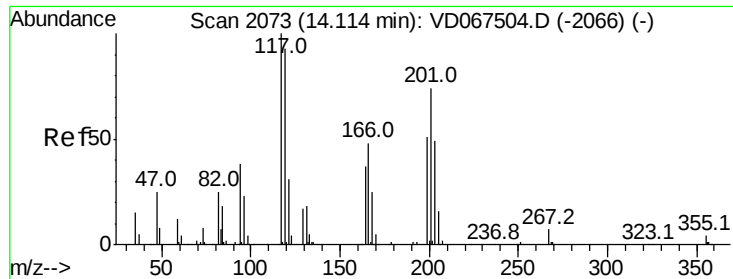


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

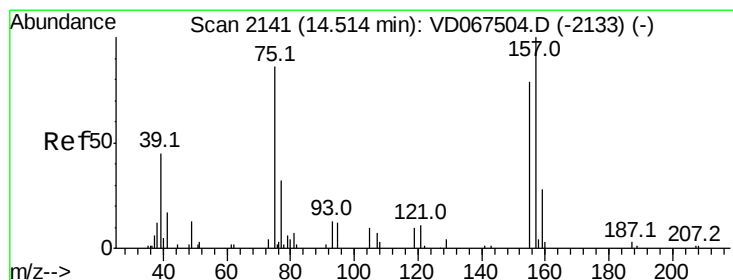
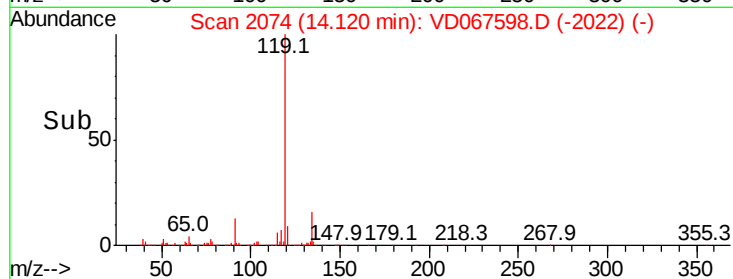
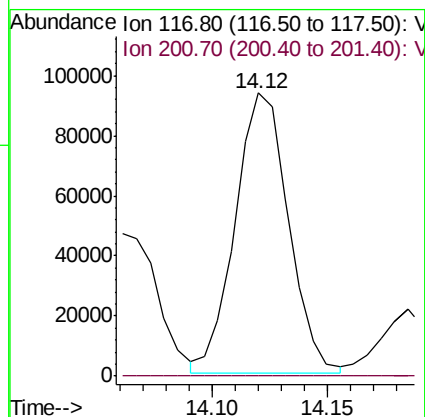
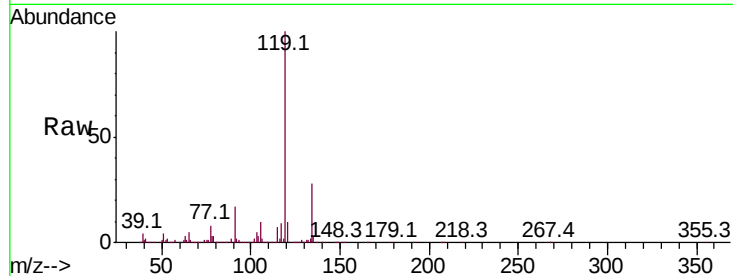




#90
Hexachloroethane
Concen: 52.967 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

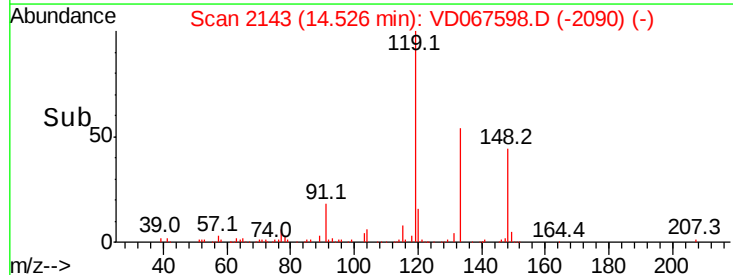
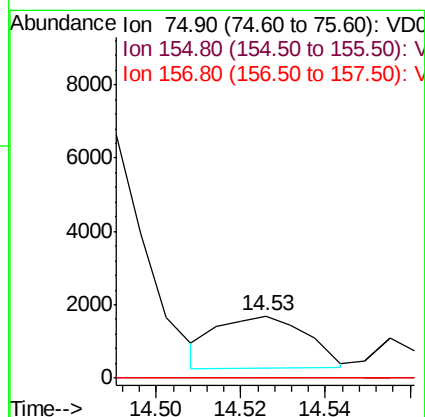
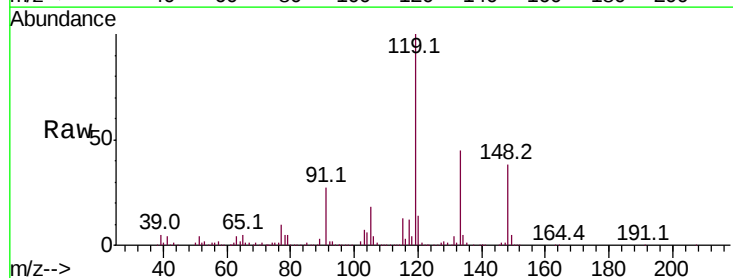
Instrument :
MSVOA_D
ClientSampleId :
M-6(0-10)

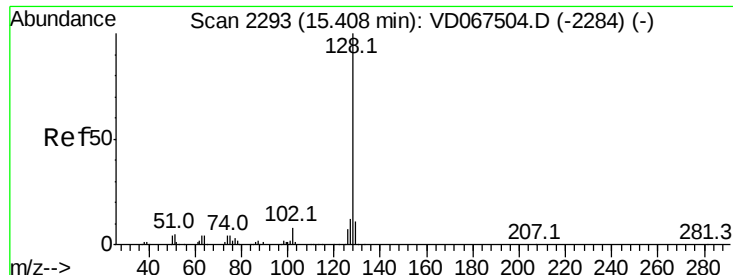
Tot Ion:117 Resp: 149494
Ion Ratio Lower Upper
117 100
201 0.0 40.7 122.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.433 ug/l
RT: 14.53 min Scan# 2143
Delta R.T. 0.01 min
Lab File: VD067598.D
Acq: 11 Nov 2020 13:19

Tgt Ion: 75 Resp: 2083
Ion Ratio Lower Upper
75 100
155 0.0 46.6 139.8#
157 0.0 58.1 174.2#





#95

Naphthalene

Concen: 167.601 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD067598.D

Acq: 11 Nov 2020 13:19

Instrument :

MSVOA_D

ClientSampleId :

M-6(0-10)

Tot Ion:128 Resp: 1130628

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 10.8 8.9 13.3

