

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111920\
 Data File : VD067703.D
 Acq On : 19 Nov 2020 12:54
 Operator : VA/SY
 Sample : L4778-06
 Misc : 4.07G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VNJ-223

Quant Time: Nov 20 00:29:59 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	24074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	36838	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	40116	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	15349	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	16031	76.16	ug/l	0.00
Spiked Amount			Recovery	=	152.32%	
35) Dibromofluoromethane	7.92	113	11933	53.76	ug/l	0.00
Spiked Amount			Recovery	=	107.52%	
50) Toluene-d8	10.34	98	44205	56.67	ug/l	0.00
Spiked Amount			Recovery	=	113.34%	
62) 4-Bromofluorobenzene	12.63	95	16070	59.68	ug/l	0.00
Spiked Amount			Recovery	=	119.36%	

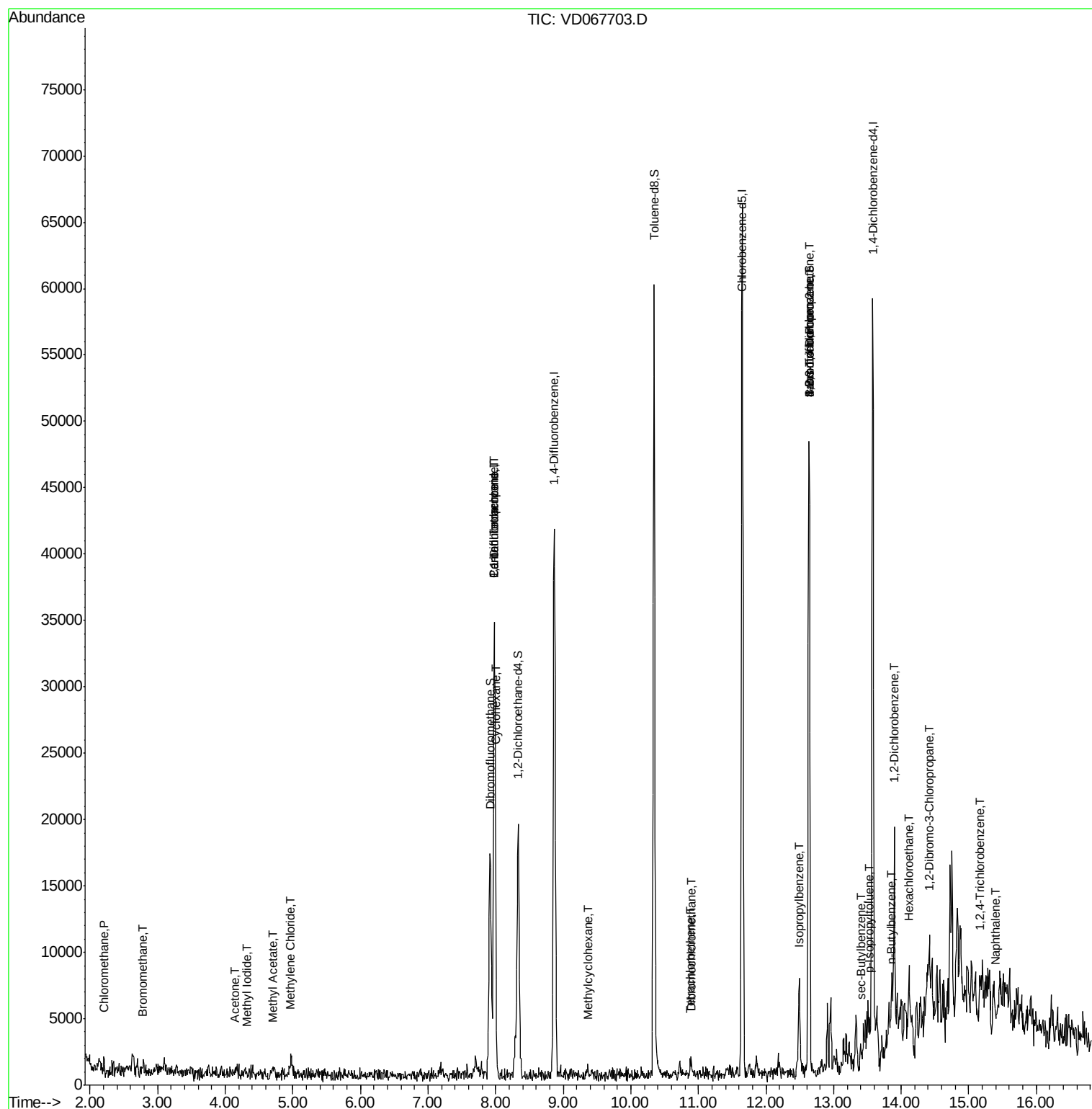
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	314	Below Cal	#	44
3) Chloromethane	2.21	50	303	2.021	ug/l #	41
5) Bromomethane	2.78	94	321	2.370	ug/l #	4
10) Methyl Iodide	4.31	142	403	1.721	ug/l #	55
16) Acetone	4.14	43	519	16.476	ug/l #	43
18) Methyl Acetate	4.71	43	774	11.891	ug/l #	55
20) Methylene Chloride	4.97	84	797	3.582	ug/l #	68
31) Cyclohexane	8.00	56	640	2.096	ug/l #	85
36) 1,1-Dichloropropene	7.98	75	2070	6.565	ug/l #	39
38) Carbon Tetrachloride	7.98	117	2322	5.668	ug/l #	12
39) Methylcyclohexane	9.36	83	400	1.078	ug/l #	59
60) Dibromochloromethane	10.89	129	370	1.610	ug/l #	11
64) Tetrachloroethene	10.88	164	315	1.060	ug/l #	70
71) Bromoform	12.63	173	209	1.346	ug/l #	1
73) Isopropylbenzene	12.48	105	1134	1.143	ug/l #	59
76) 1,2,3-Trichloropropane	12.64	75	7754	83.742	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	7754	170.018	ug/l #	10
85) sec-Butylbenzene	13.41	105	1155	1.191	ug/l #	67
86) p-Isopropyltoluene	13.53	119	1120	1.196	ug/l #	73
89) n-Butylbenzene	13.84	91	1543	1.908	ug/l #	57
90) Hexachloroethane	14.11	117	211	1.197	ug/l #	9
91) 1,2-Dichlorobenzene	13.89	146	1147	2.851	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	14.43	75	61	2.547	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.16	180	383	1.403	ug/l #	48
95) Naphthalene	15.40	128	868	2.060	ug/l #	82

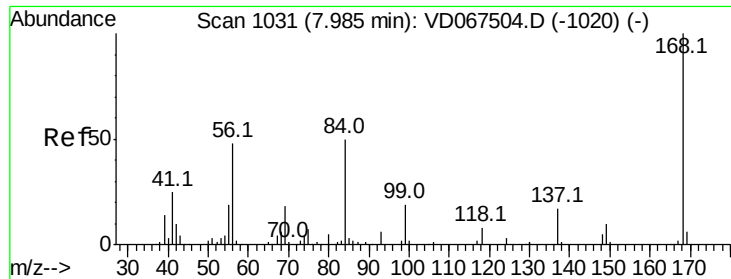
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1030

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

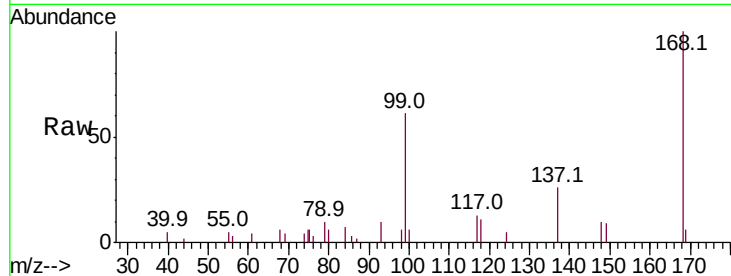
VNJ-223

Tot Ion:168 Resp: 24074

Ion Ratio Lower Upper

168 100

99 61.2 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

10000

8000

6000

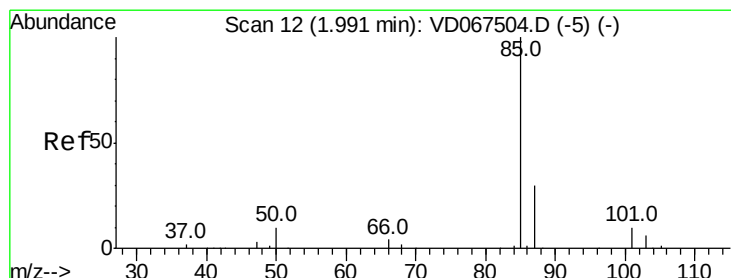
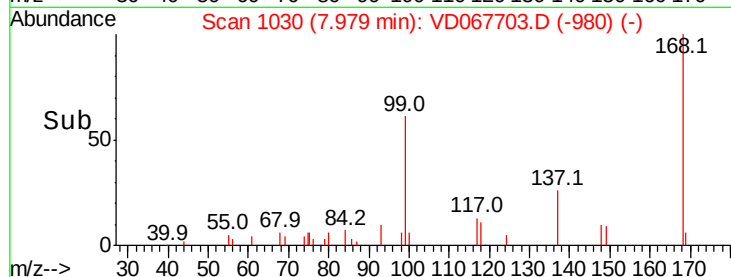
4000

2000

0

Time-->

7.90 7.95 8.00 8.05



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD067703.D

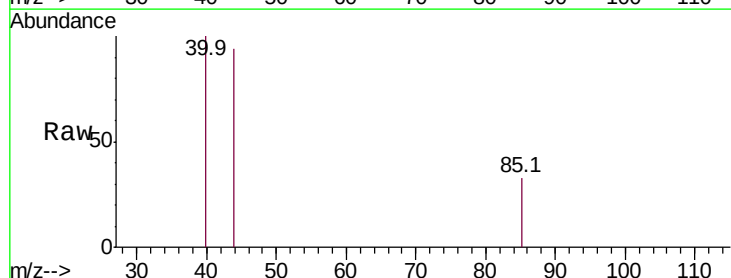
Acq: 19 Nov 2020 12:54

Tgt Ion: 85 Resp: 314

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

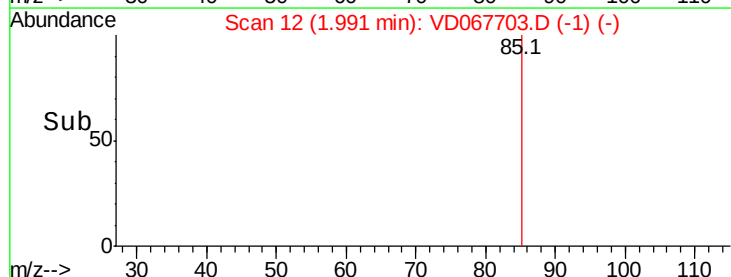
200

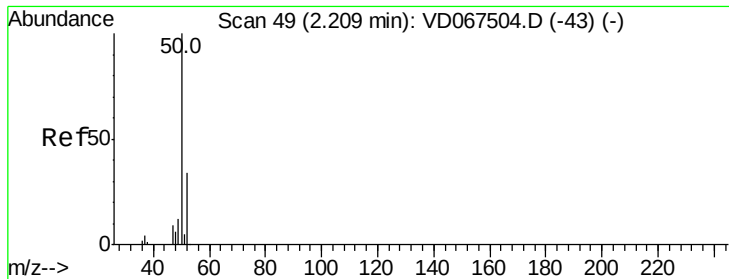
100

0

Time-->

1.96 1.98 2.00 2.02





#3

Chloromethane

Concen: 2.021 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

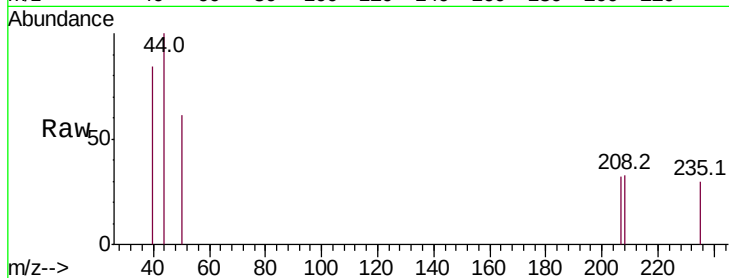
VNJ-223

Tot Ion: 50 Resp: 303

Ion Ratio Lower Upper

50 100

52 0.0 27.3 40.9#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

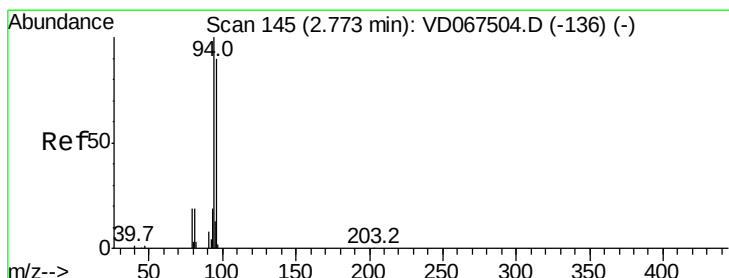
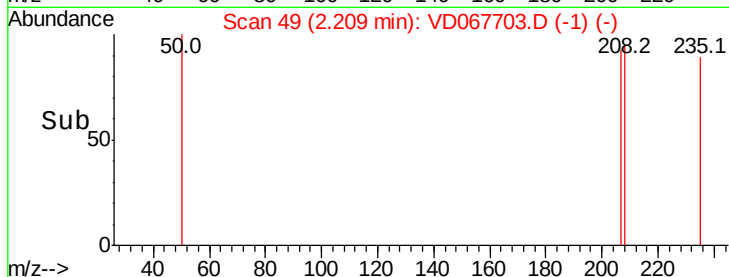
300

200

100

0

Time--> 2.18 2.20 2.22



#5

Bromomethane

Concen: 2.370 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067703.D

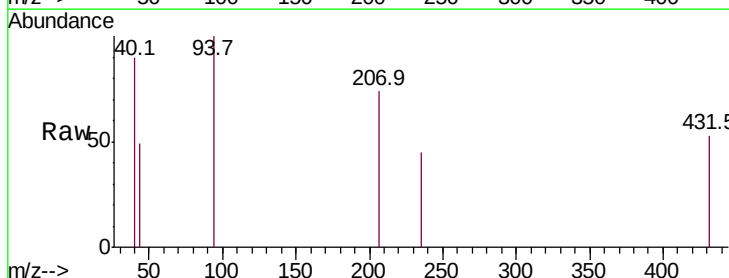
Acq: 19 Nov 2020 12:54

Tgt Ion: 94 Resp: 321

Ion Ratio Lower Upper

94 100

96 0.0 72.2 108.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

600

500

400

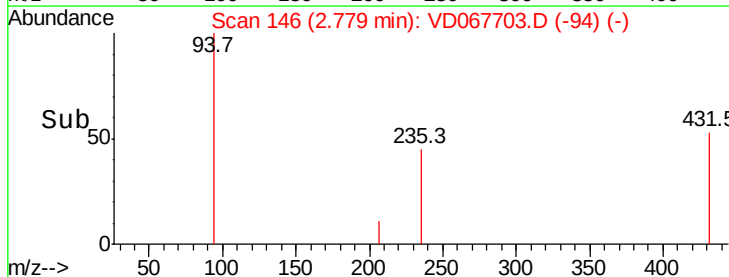
300

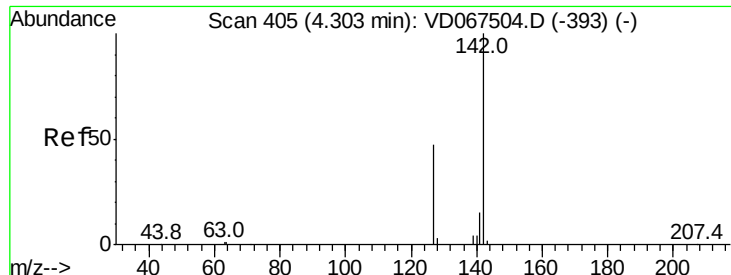
200

100

0

Time--> 2.74 2.76 2.78 2.80

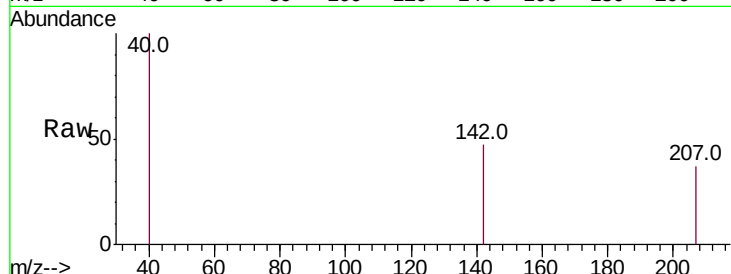




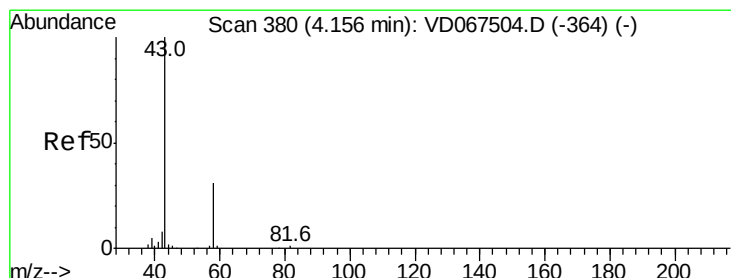
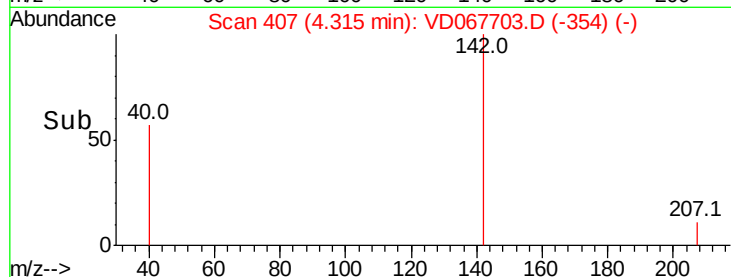
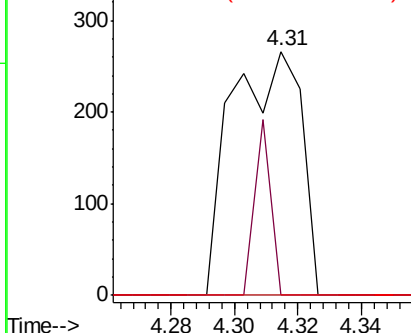
#10
Methvl Iodide
Concen: 1.721 ug/l
RT: 4.31 min Scan# 407
Delta R.T. 0.01 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

Instrument :
MSVOA_D
ClientSampleId :
VNJ-223

Tot Ion:142 Resp: 403
Ion Ratio Lower Upper
142 100
127 16.9 40.0 60.0#
141 0.0 11.7 17.5#

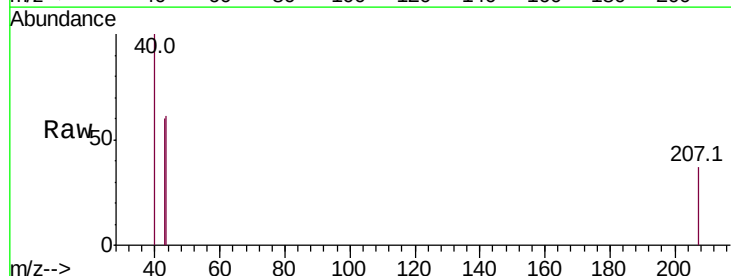


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

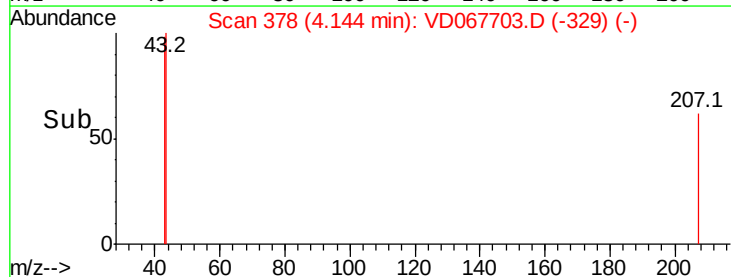
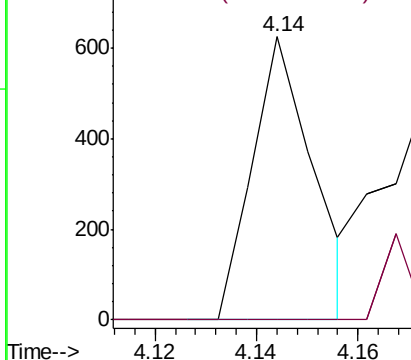


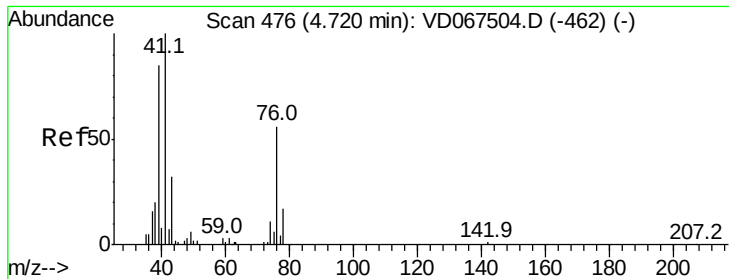
#16
Acetone
Concen: 16.476 ug/l
RT: 4.14 min Scan# 378
Delta R.T. -0.01 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

Tgt Ion: 43 Resp: 519
Ion Ratio Lower Upper
43 100
58 0.0 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

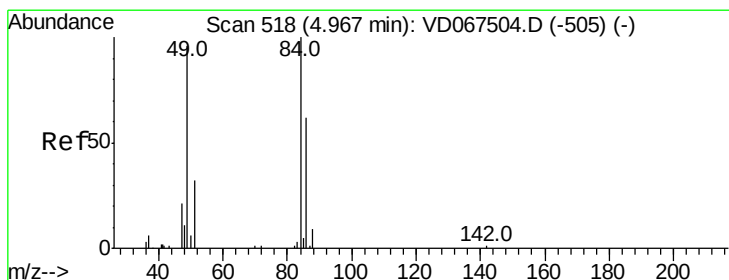
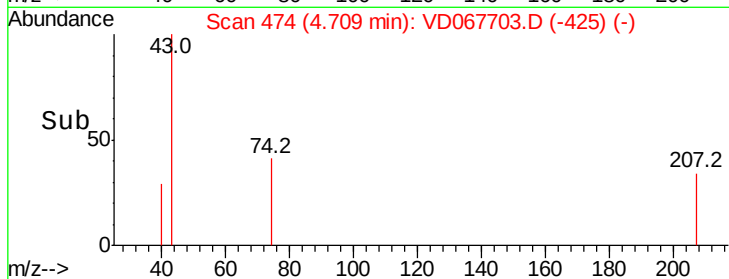
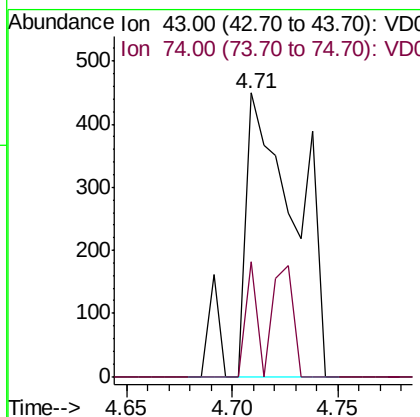
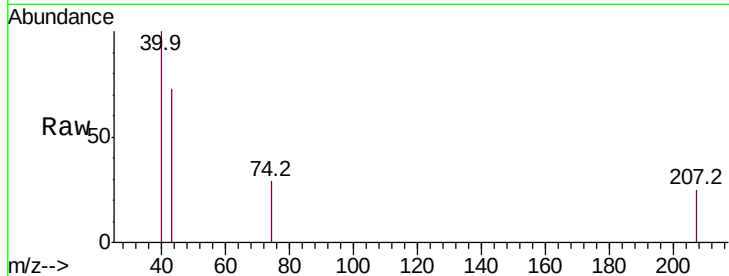




#18
Methyl Acetate
Concen: 11.891 ug/l
RT: 4.71 min Scan# 474
Delta R.T. -0.01 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

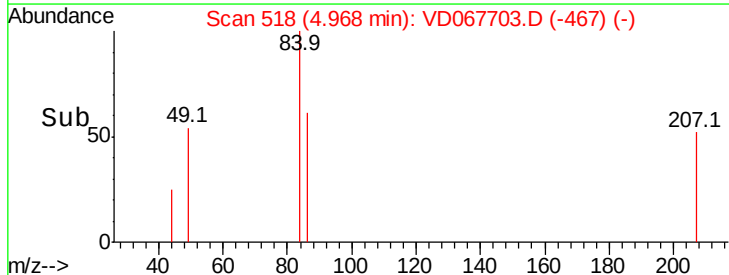
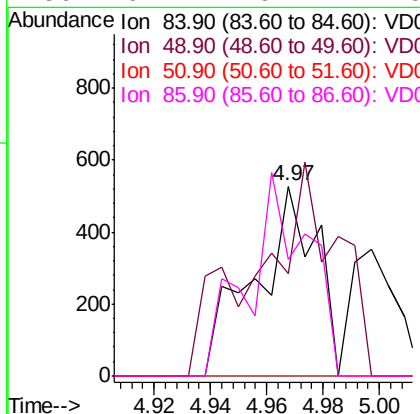
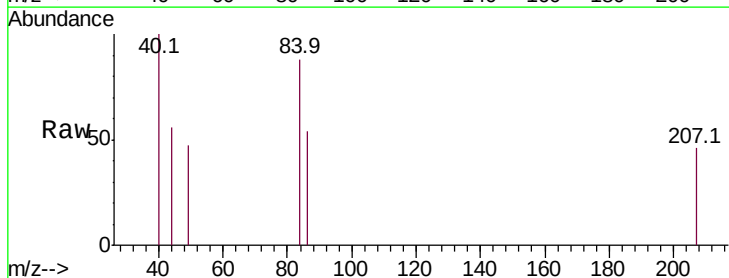
Instrument :
MSVOA_D
ClientSampled :
VNJ-223

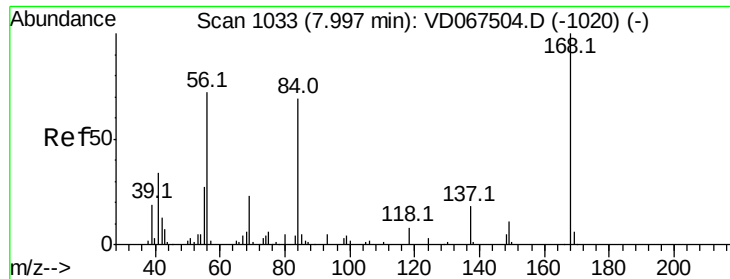
Tot Ion: 43 Resp: 774
Ion Ratio Lower Upper
43 100
74 8.3 27.2 40.8#



#20
Methylene Chloride
Concen: 3.582 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

Tgt Ion: 84 Resp: 797
Ion Ratio Lower Upper
84 100
49 53.7 77.0 115.4#
51 0.0 25.4 38.2#
86 61.1 49.4 74.0

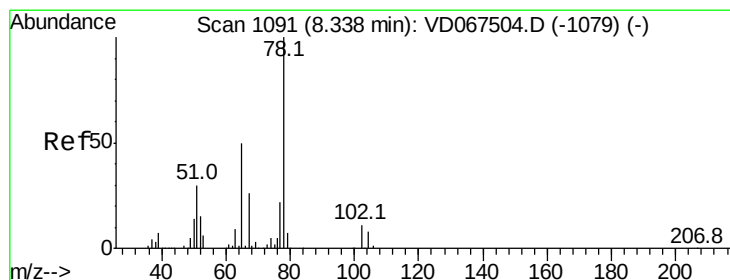
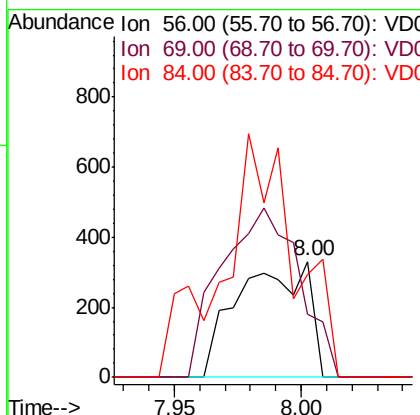
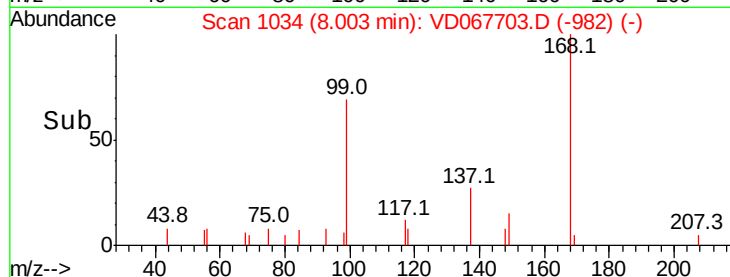
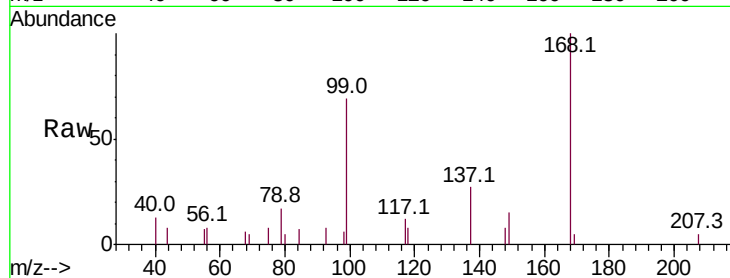




#31
Cyclohexane
Concen: 2.096 ug/l
RT: 8.00 min Scan# 1034
Delta R.T. 0.01 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

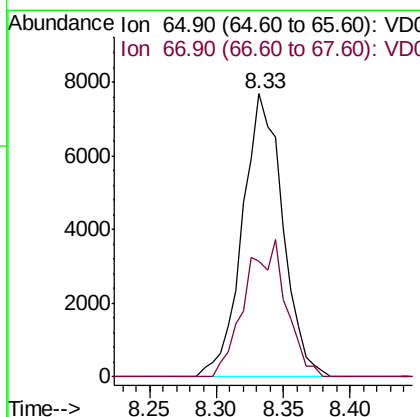
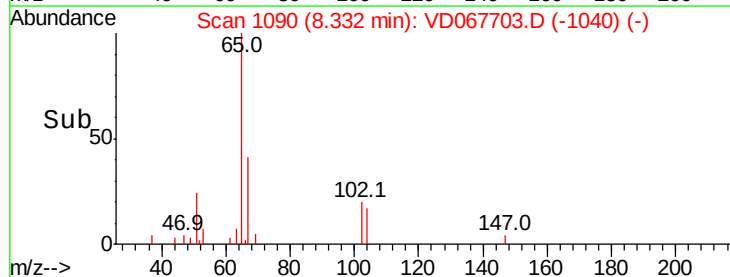
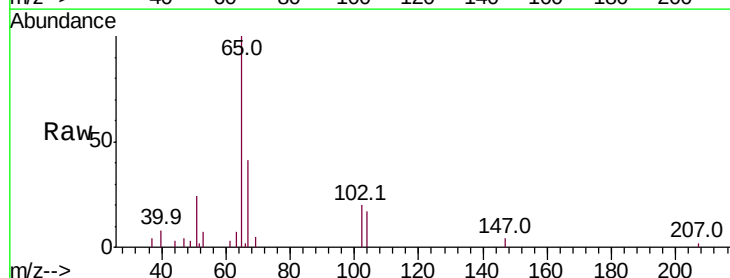
Instrument :
MSVOA_D
ClientSampleId :
VNJ-223

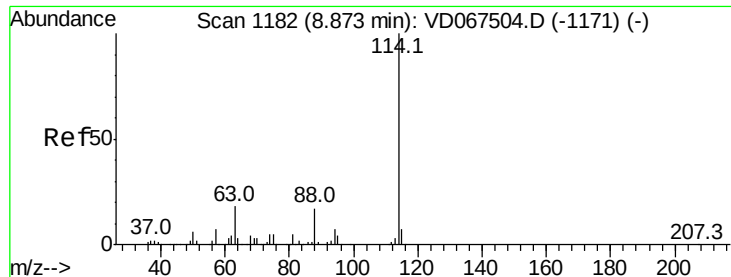
Tot Ion: 56 Resp: 640
Ion Ratio Lower Upper
56 100
69 54.4 25.9 38.9#
84 88.2 76.2 114.4



#33
1,2-Dichloroethane-d4
Concen: 76.157 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

Tgt Ion: 65 Resp: 16031
Ion Ratio Lower Upper
65 100
67 49.6 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

VNJ-223

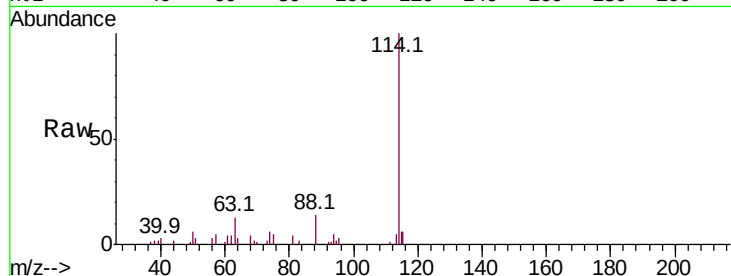
Tot Ion:114 Resp: 36838

Ion Ratio Lower Upper

114 100

63 13.0 0.0 35.0

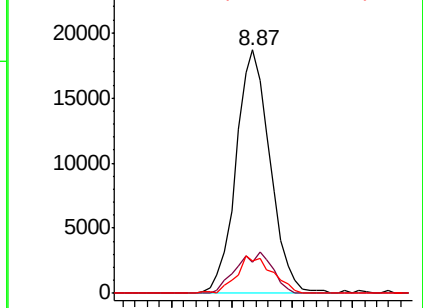
88 13.6 0.0 33.0



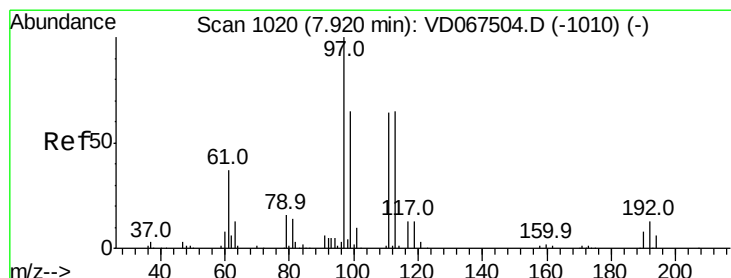
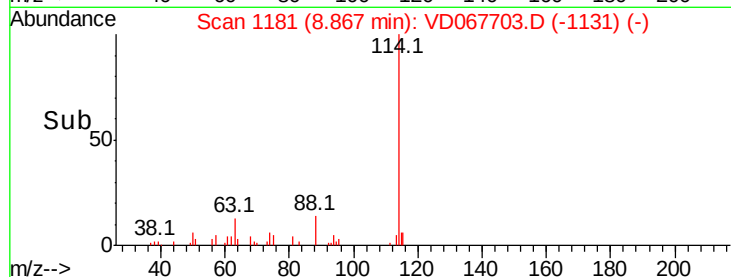
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



Time-->



#35

Dibromofluoromethane

Concen: 53.765 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

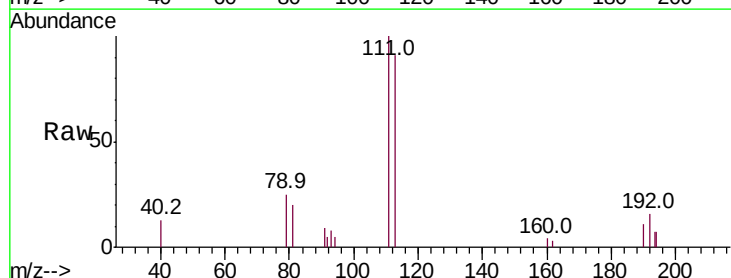
Tgt Ion:113 Resp: 11933

Ion Ratio Lower Upper

113 100

111 108.2 80.0 120.0

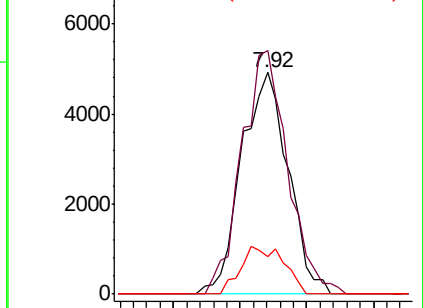
192 19.9 16.3 24.5



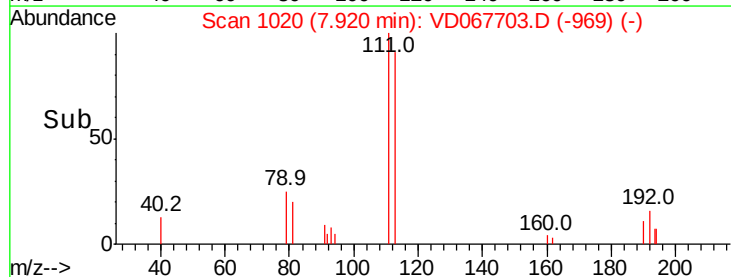
Abundance Ion 112.80 (112.50 to 113.50): V

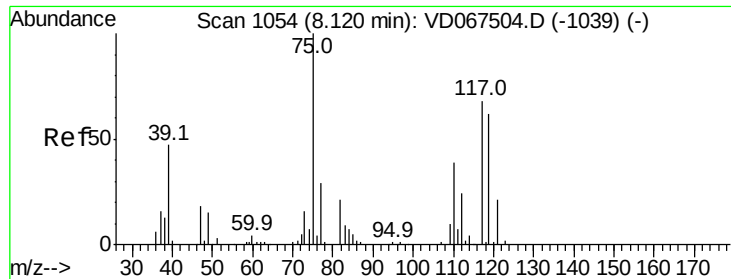
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->

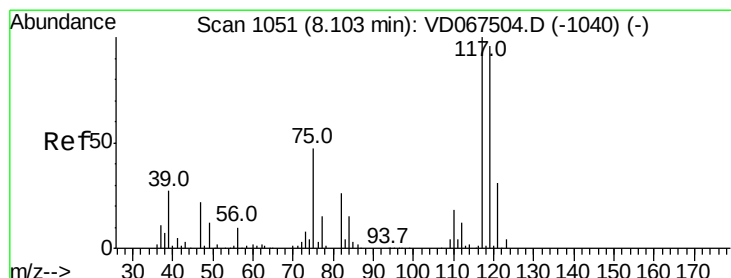
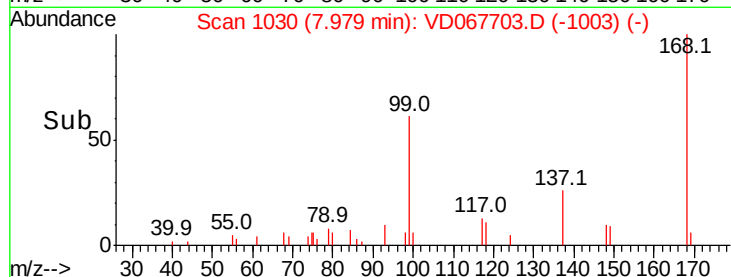
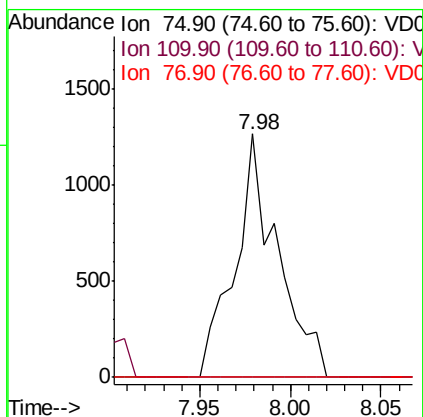
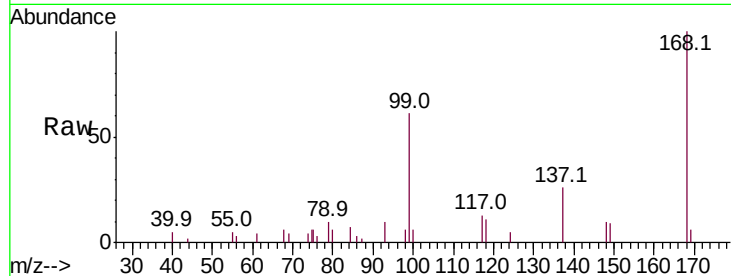




#36
 1,1-Dichloropropene
 Concen: 6.565 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067703.D
 Acq: 19 Nov 2020 12:54

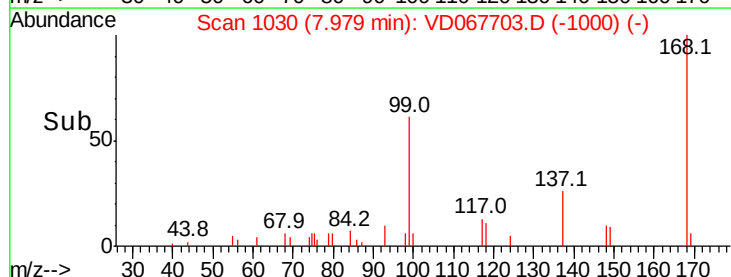
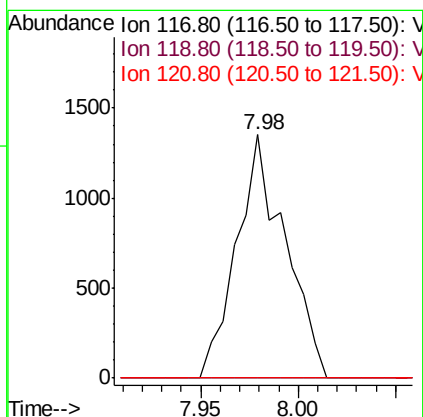
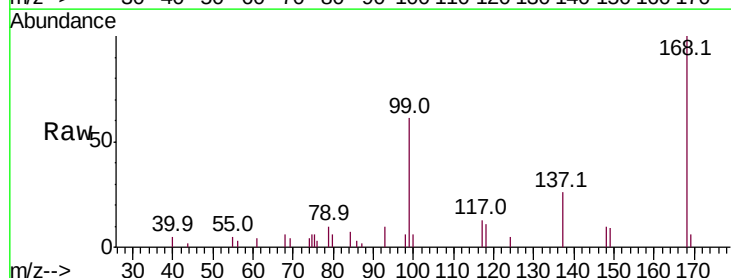
Instrument :
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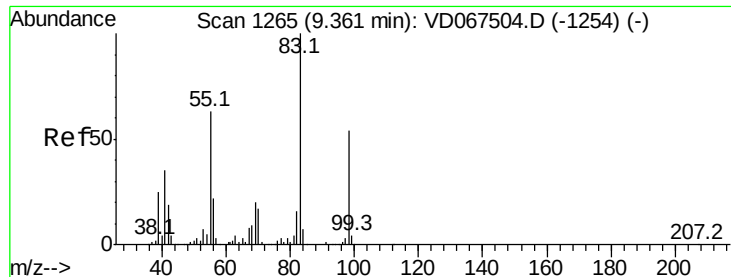
Tot Ion: 75 Resp: 2070
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.9 59.7#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 5.668 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD067703.D
 Acq: 19 Nov 2020 12:54

Tgt Ion: 117 Resp: 2322
 Ion Ratio Lower Upper
 117 100
 119 0.0 76.9 115.3#
 121 0.0 24.5 36.7#

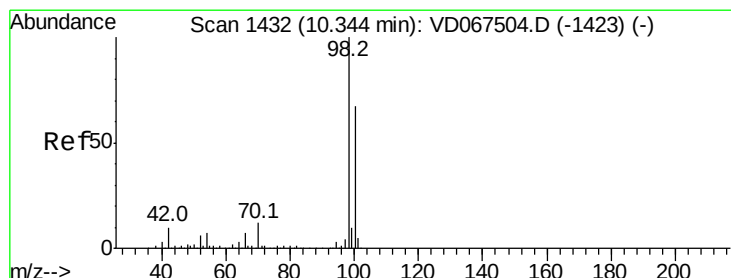
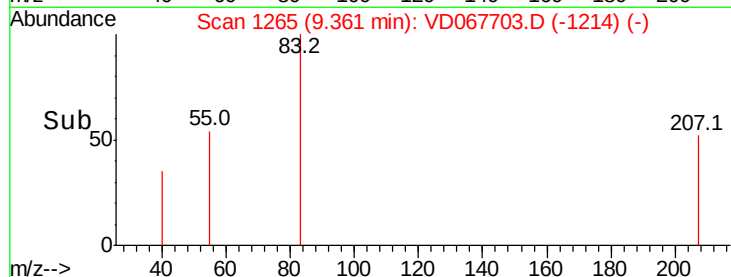
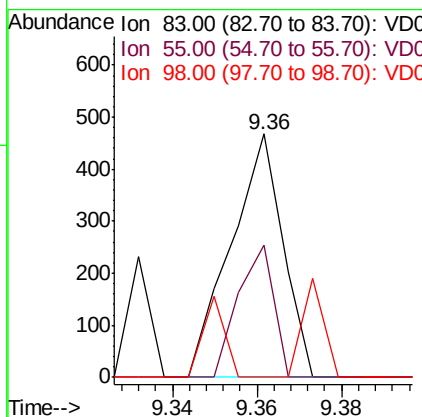
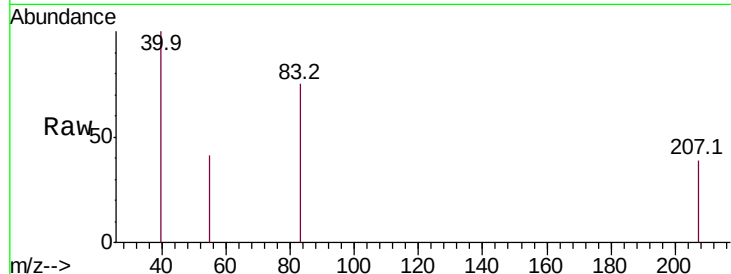




#39
Methylvlcyclohexane
Concen: 1.078 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

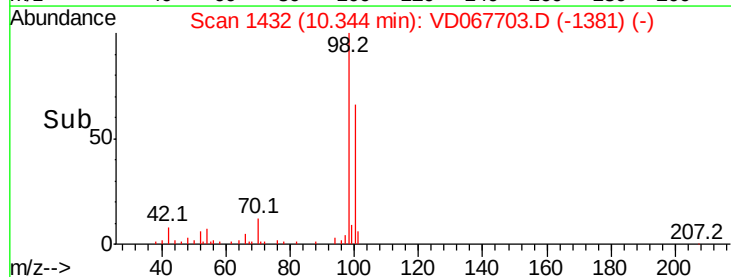
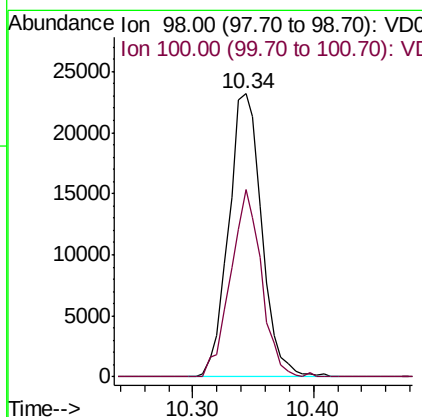
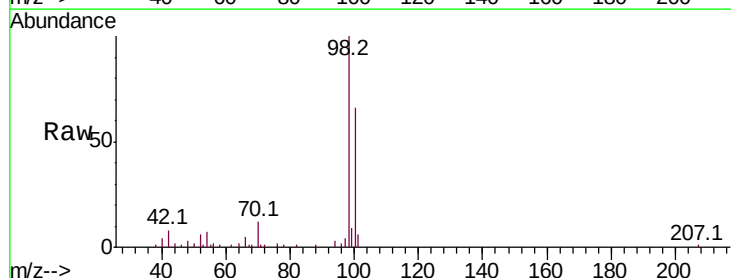
Instrument :
MSVOA_D
ClientSampleId :
VNJ-223

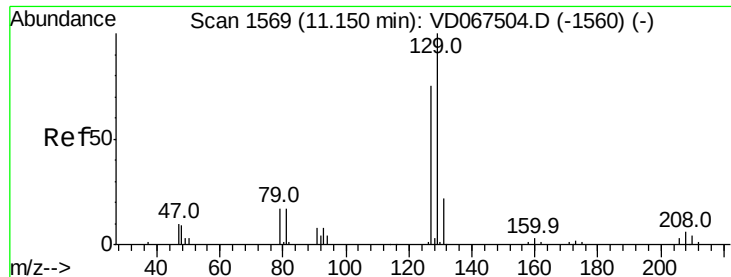
Tot Ion: 83 Resp: 400
Ion Ratio Lower Upper
83 100
55 54.5 50.5 75.7
98 0.0 43.4 65.0#



#50
Toluene-d8
Concen: 56.675 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

Tgt Ion: 98 Resp: 44205
Ion Ratio Lower Upper
98 100
100 61.4 53.0 79.6





#60

Dibromochloromethane

Concen: 1.610 ug/l

RT: 10.89 min Scan# 1525

Delta R.T. -0.26 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

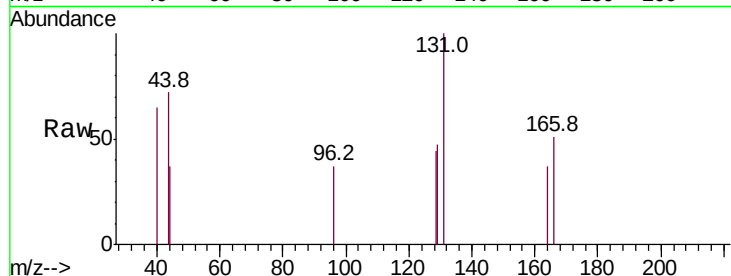
VNJ-223

Tot Ion:129 Resp: 370

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.89

400

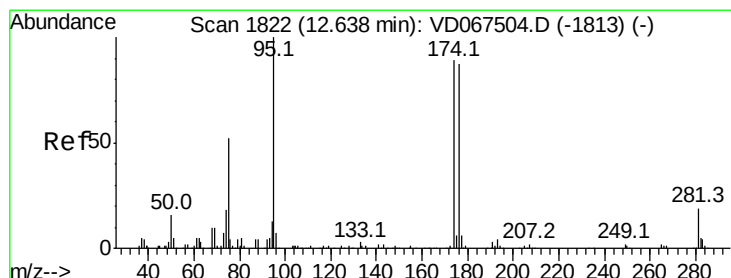
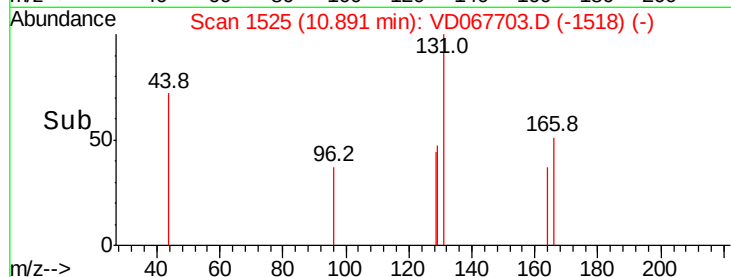
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 59.677 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

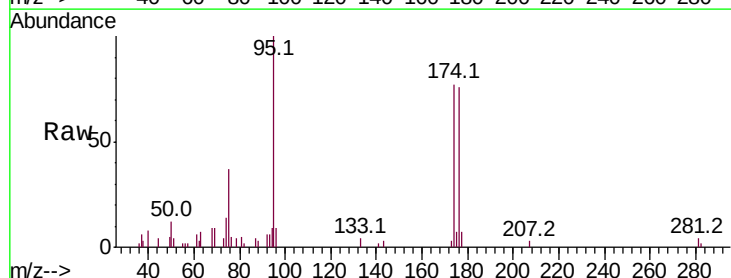
Tgt Ion: 95 Resp: 16070

Ion Ratio Lower Upper

95 100

174 96.0 0.0 177.8

176 87.0 0.0 172.0



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

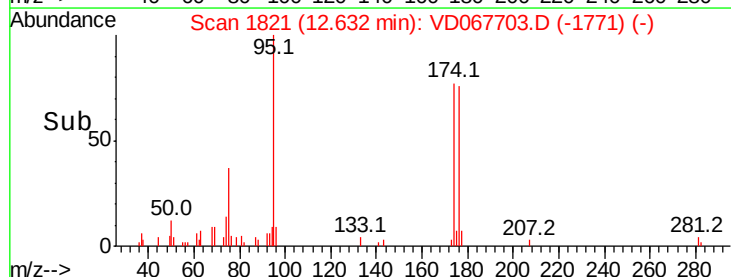
12.63

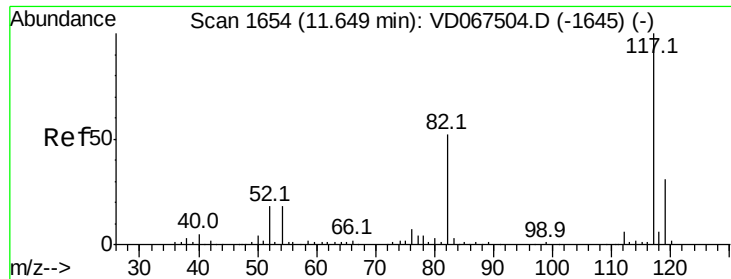
10000

5000

0

Time-->

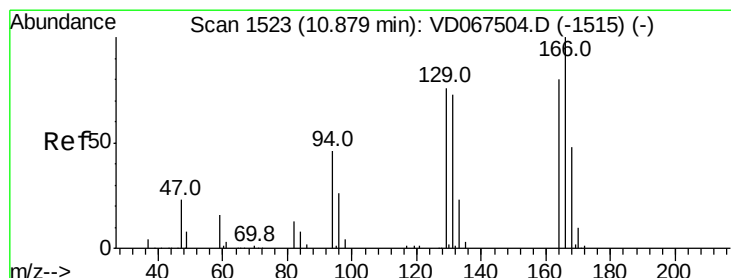
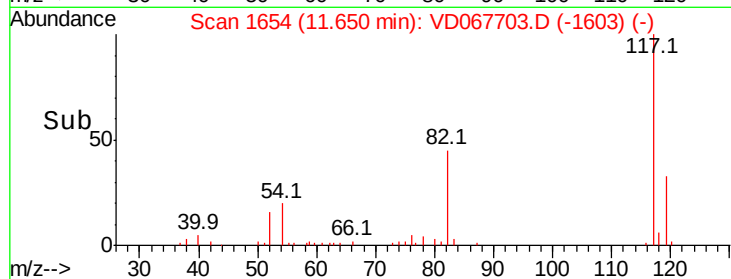
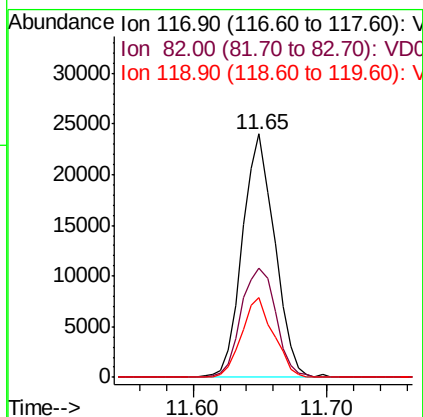
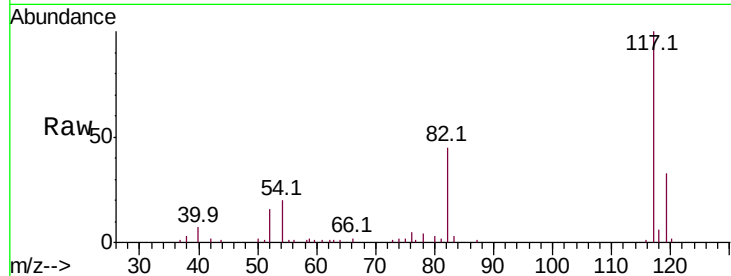




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

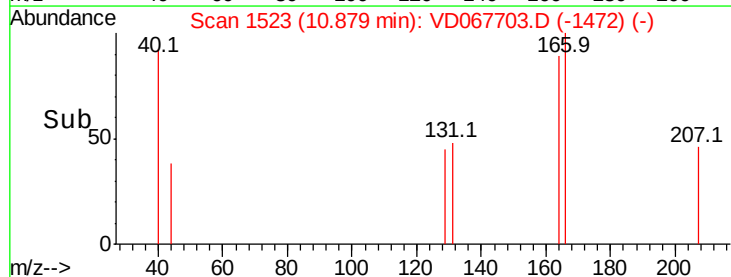
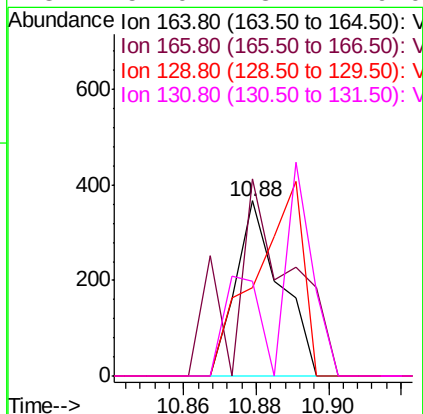
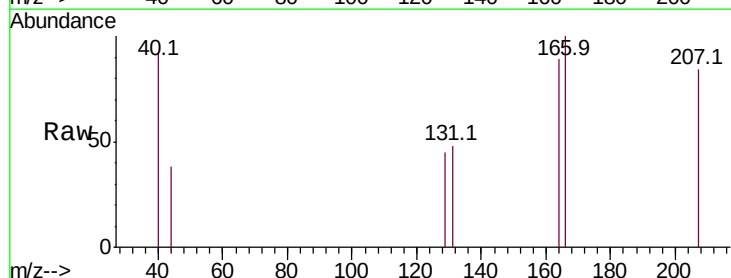
Instrument :
MSVOA_D
ClientSampleId :
VNJ-223

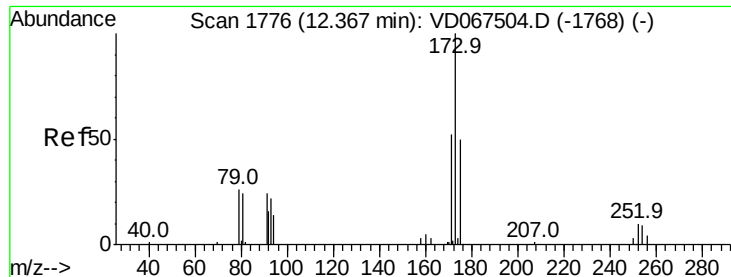
Tot Ion:117 Resp: 40116
Ion Ratio Lower Upper
117 100
82 44.8 41.6 62.4
119 32.8 25.1 37.7



#64
Tetrachloroethene
Concen: 1.060 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD067703.D
Acq: 19 Nov 2020 12:54

Tgt Ion:164 Resp: 315
Ion Ratio Lower Upper
164 100
166 112.3 99.9 149.9
129 50.4 75.5 113.3#
131 54.0 73.4 110.0#





#71

Bromoform

Concen: 1.346 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.26 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

VNJ-223

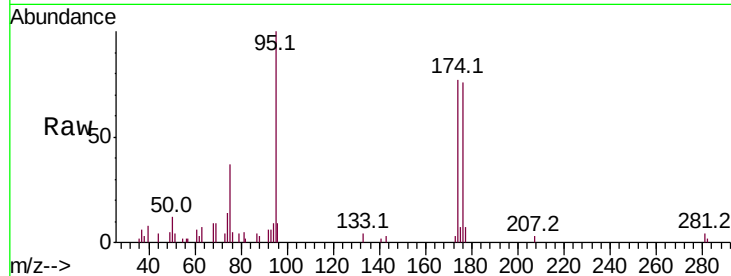
Tot Ion:173 Resp: 209

Ion Ratio Lower Upper

173 100

175 305.7 24.1 72.2#

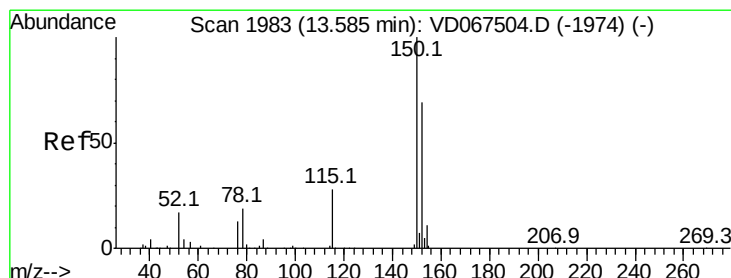
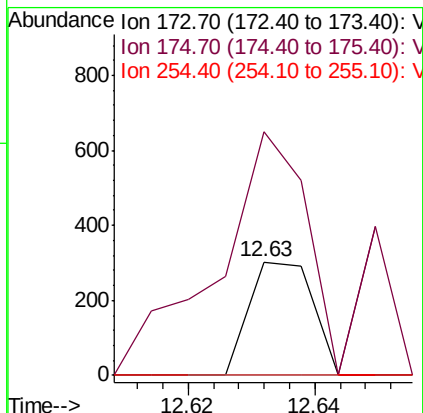
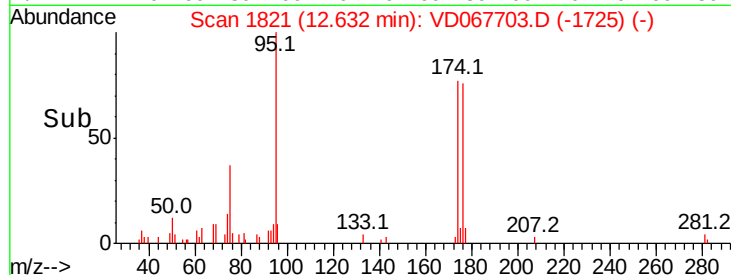
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

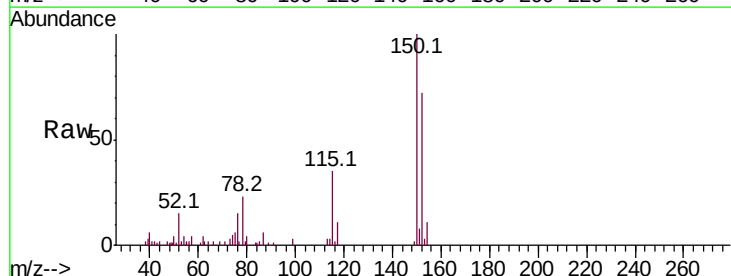
Tgt Ion:152 Resp: 15349

Ion Ratio Lower Upper

152 100

115 60.8 29.3 88.0

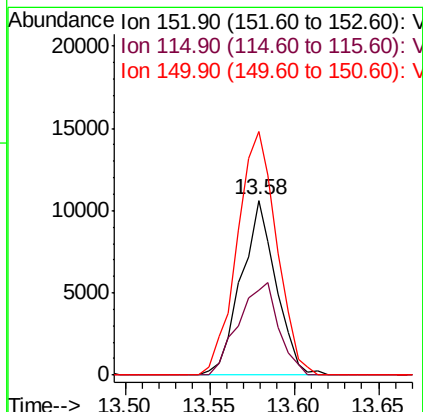
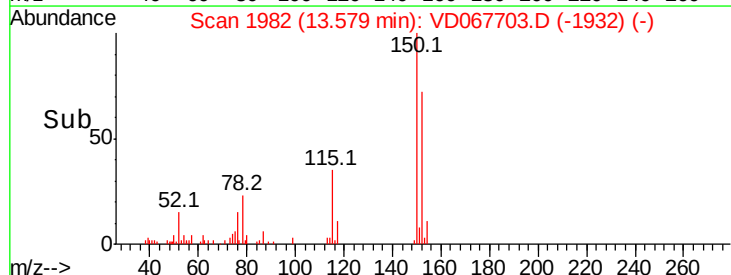
150 156.6 0.0 338.2

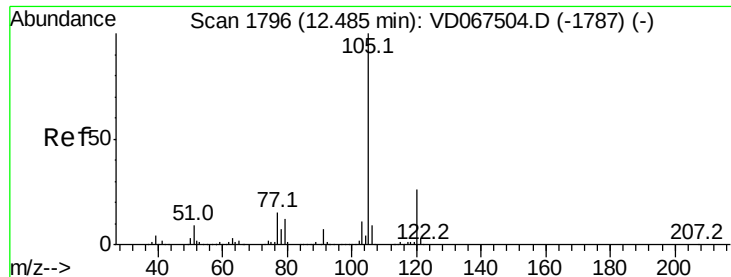


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.143 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

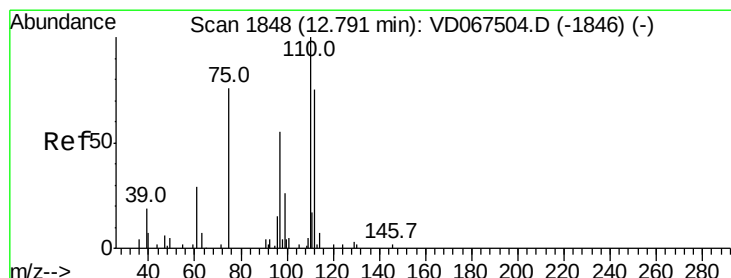
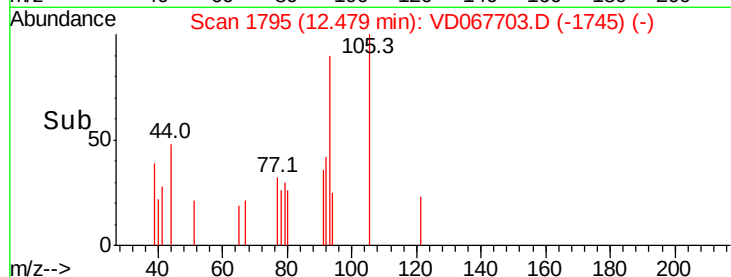
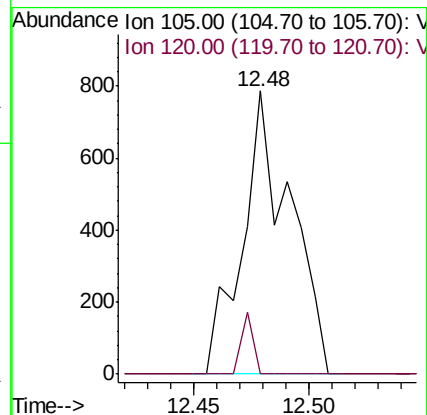
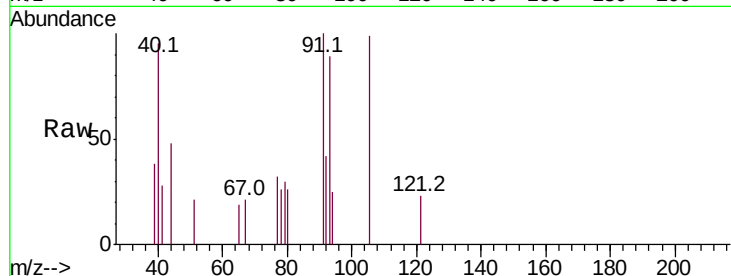
VNJ-223

Tot Ion:105 Resp: 1134

Ion Ratio Lower Upper

105 100

120 5.4 13.2 39.6#



#76

1,2,3-Trichloropropane

Concen: 83.742 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067703.D

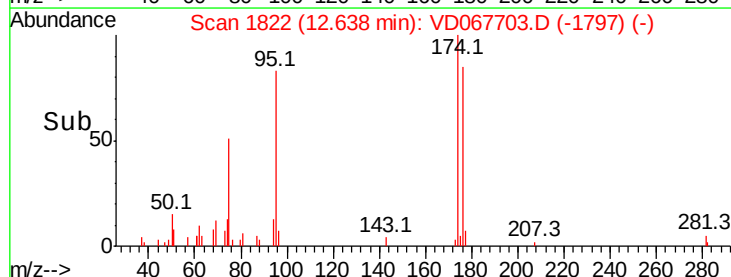
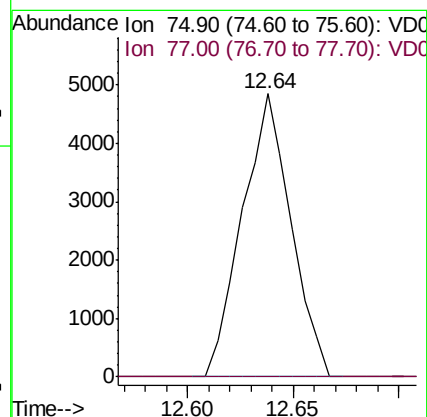
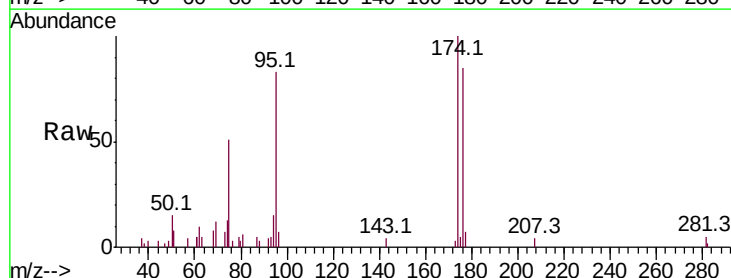
Acq: 19 Nov 2020 12:54

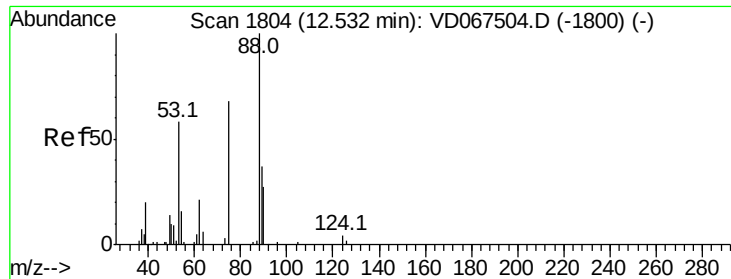
Tgt Ion: 75 Resp: 7754

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 170.018 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

VNJ-223

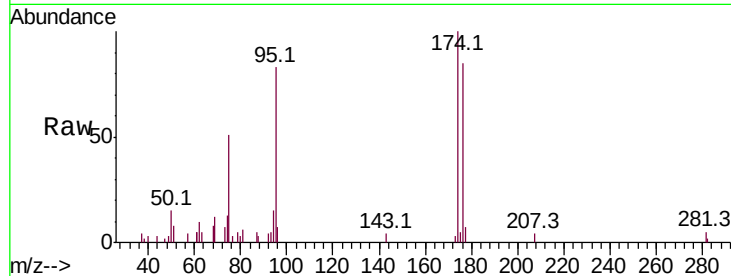
Tot Ion: 75 Resp: 7754

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

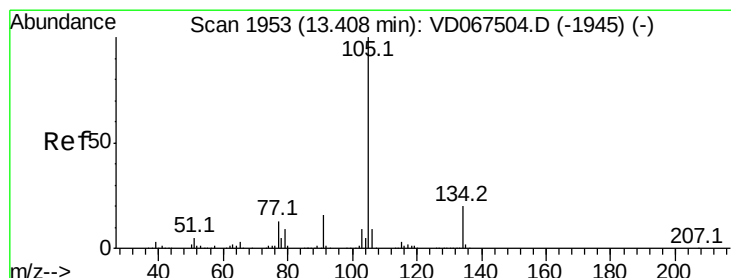
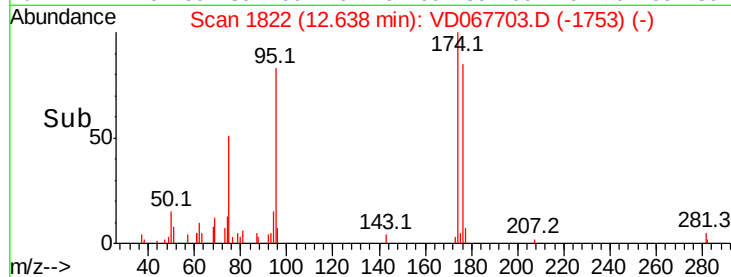
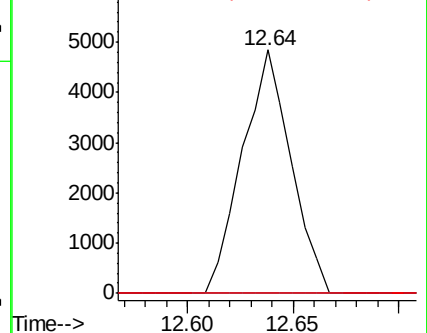
89 0.0 44.6 67.0#



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



#85

sec-Butylbenzene

Concen: 1.191 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD067703.D

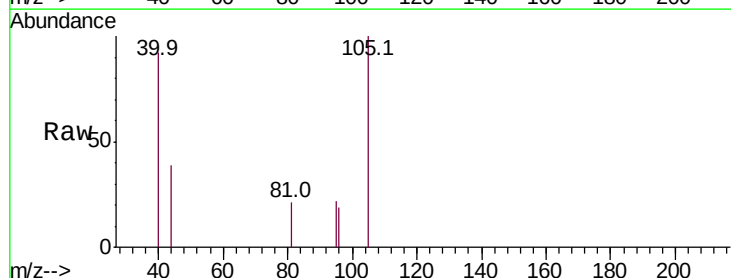
Acq: 19 Nov 2020 12:54

Tgt Ion:105 Resp: 1155

Ion Ratio Lower Upper

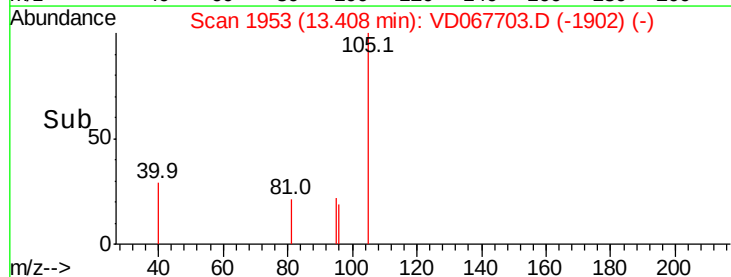
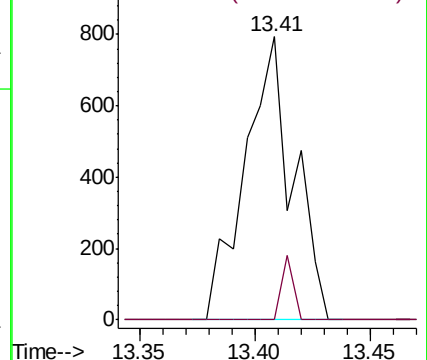
105 100

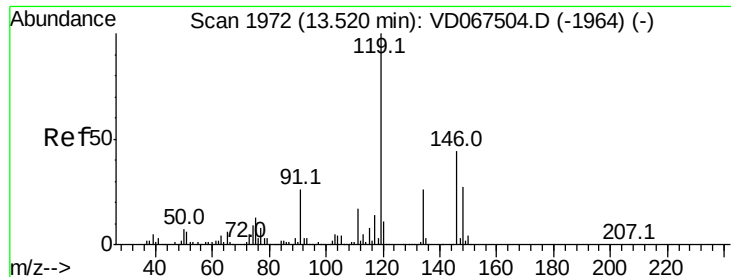
134 5.5 10.4 31.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

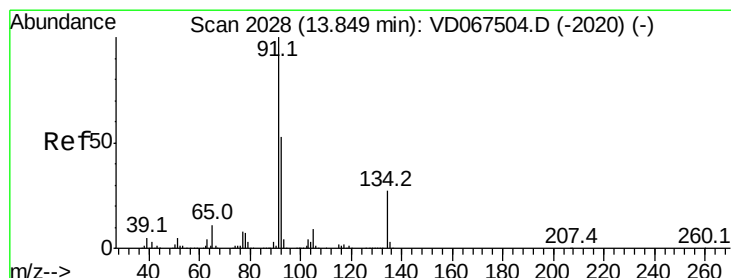
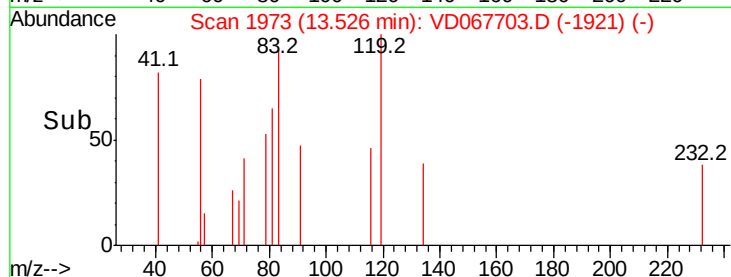
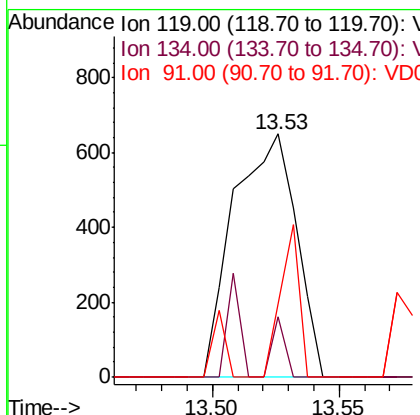
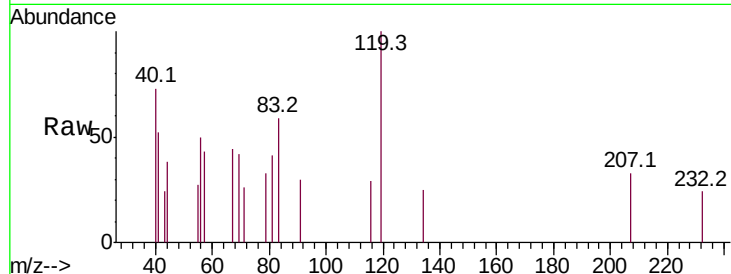




#86
 p-Isopropyltoluene
 Concen: 1.196 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.01 min
 Lab File: VD067703.D
 Acq: 19 Nov 2020 12:54

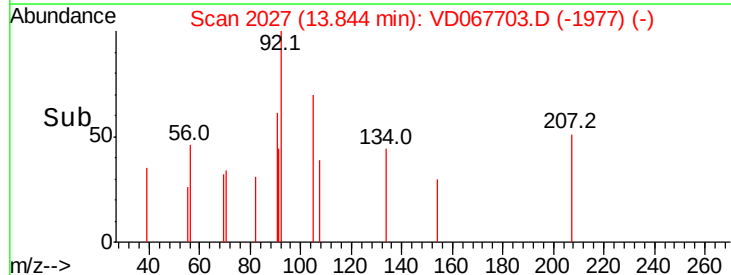
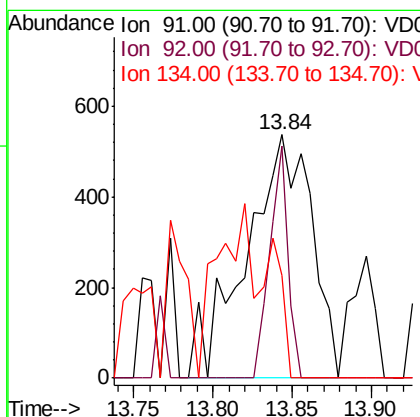
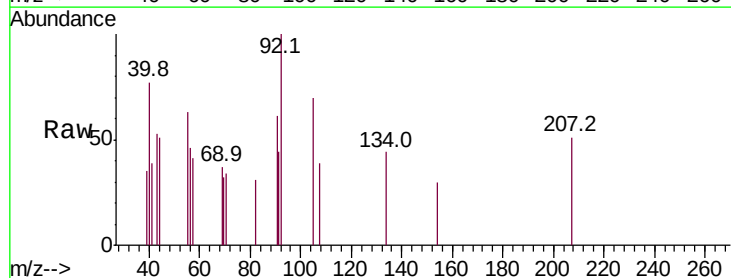
Instrument :
 MSVOA_D
 ClientSampleId :
 VNJ-223

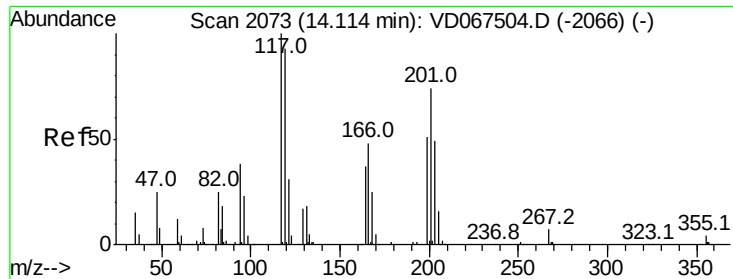
Tot Ion: 119 Resp: 1120
 Ion Ratio Lower Upper
 119 100
 134 5.0 13.1 39.3#
 91 18.9 12.2 36.4



#89
 n-Butylbenzene
 Concen: 1.908 ug/l
 RT: 13.84 min Scan# 2027
 Delta R.T. -0.01 min
 Lab File: VD067703.D
 Acq: 19 Nov 2020 12:54

Tgt Ion: 91 Resp: 1543
 Ion Ratio Lower Upper
 91 100
 92 27.0 26.6 79.8
 134 0.0 14.1 42.2#





#90

Hexachloroethane

Concen: 1.197 ug/l

RT: 14.11 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampled :

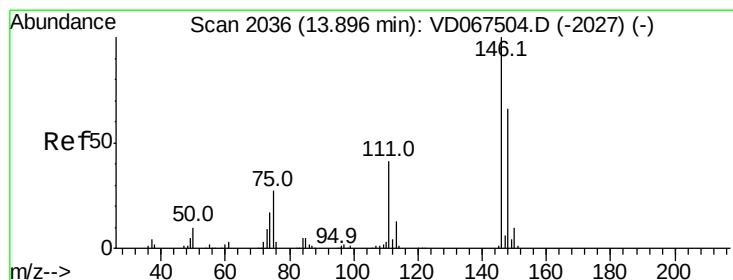
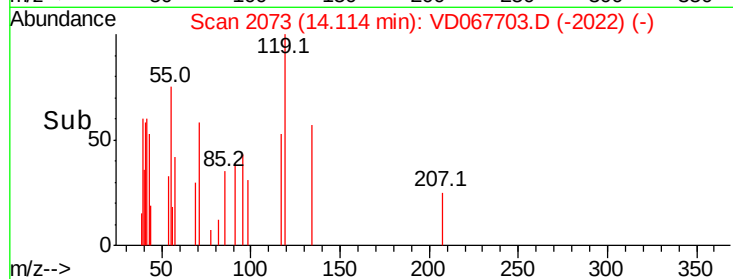
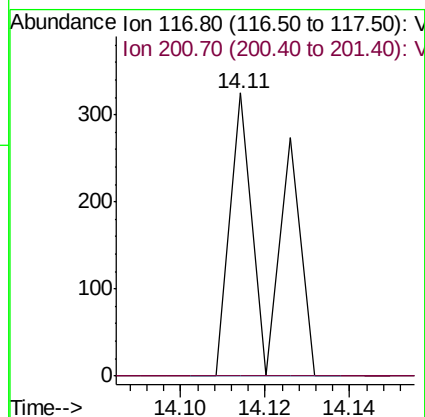
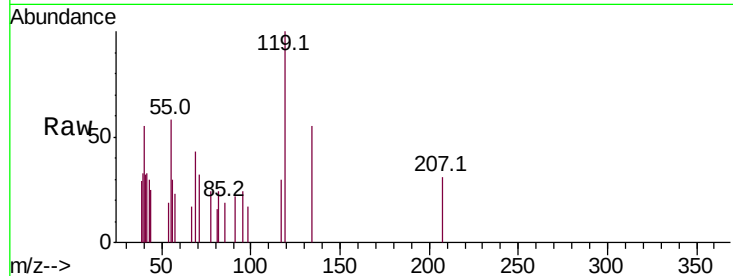
VNJ-223

Tot Ion:117 Resp: 211

Ion Ratio Lower Upper

117 100

201 0.0 40.7 122.1#



#91

1,2-Dichlorobenzene

Concen: 2.851 ug/l

RT: 13.89 min Scan# 2035

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

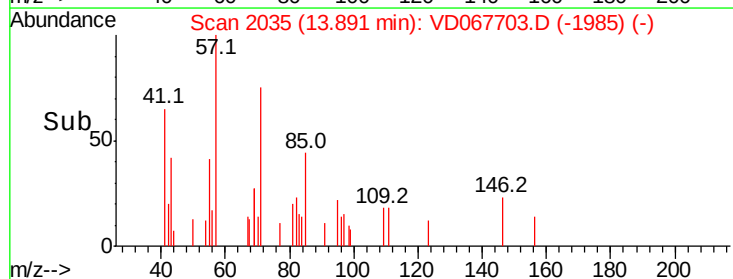
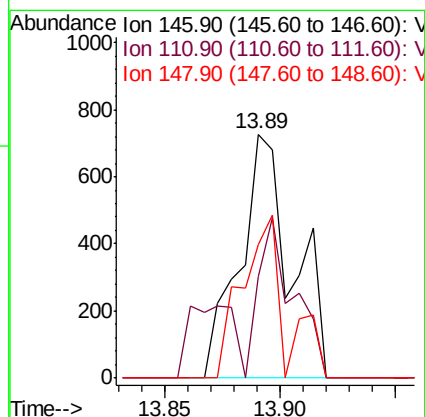
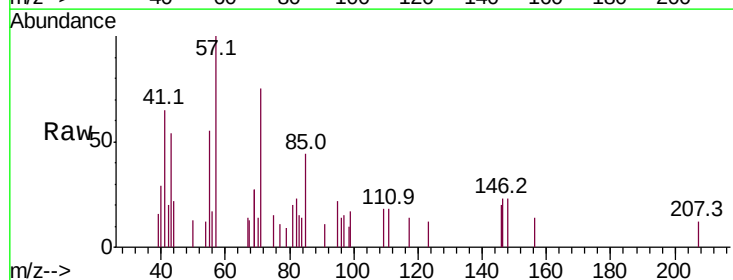
Tgt Ion:146 Resp: 1147

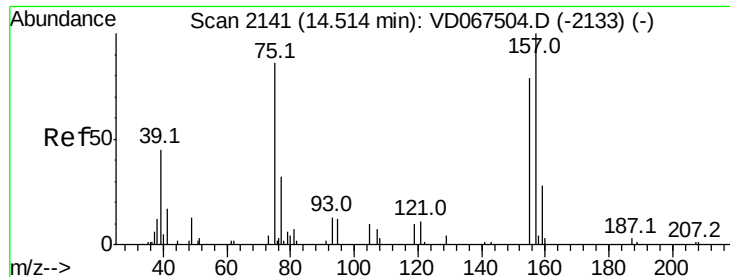
Ion Ratio Lower Upper

146 100

111 44.1 20.7 62.1

148 55.1 31.5 94.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.547 ug/l

RT: 14.43 min Scan# 2126

Delta R.T. -0.09 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

VNJ-223

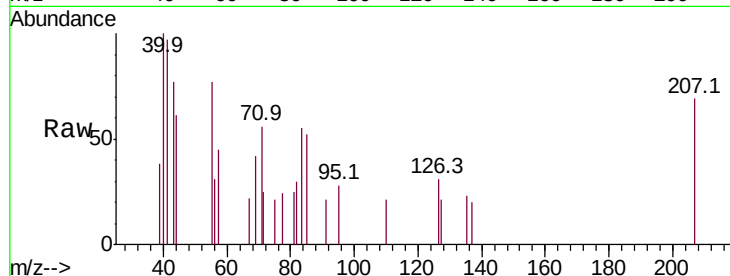
Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 46.6 139.8#

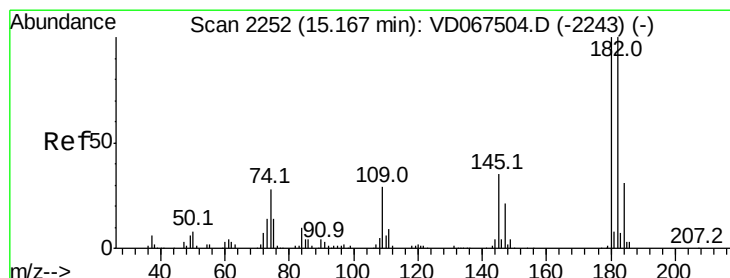
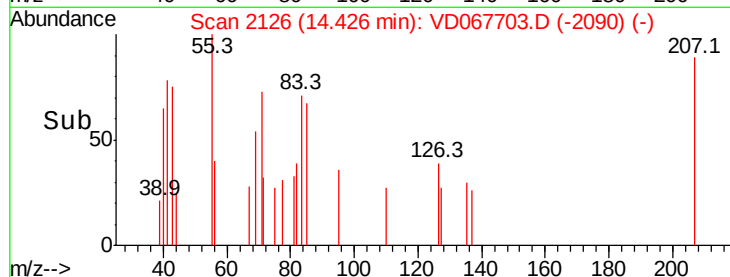
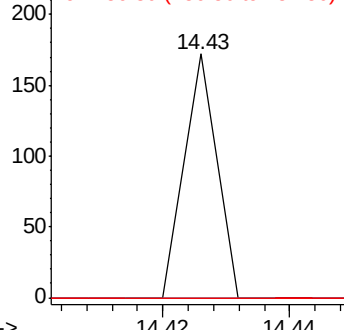
157 0.0 58.1 174.2#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 1.403 ug/l

RT: 15.16 min Scan# 2250

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

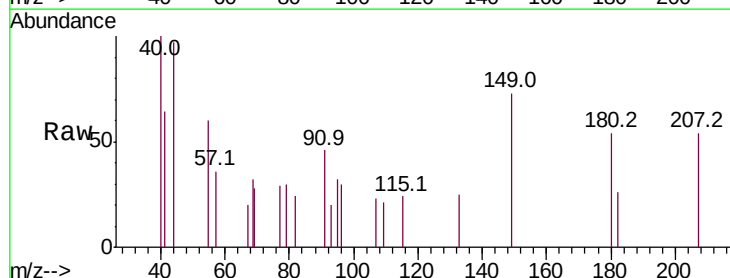
Tgt Ion:180 Resp: 383

Ion Ratio Lower Upper

180 100

182 46.0 47.4 142.3#

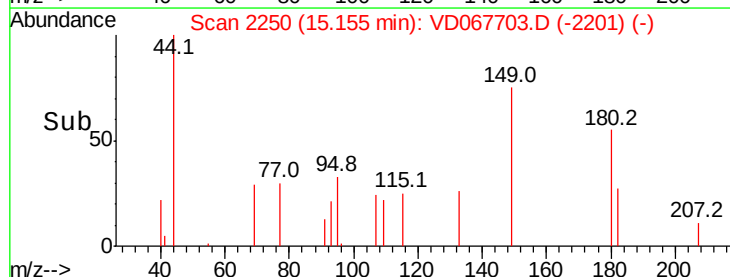
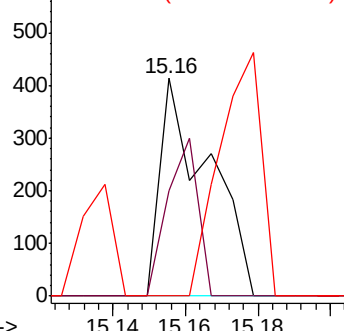
145 0.0 16.2 48.6#

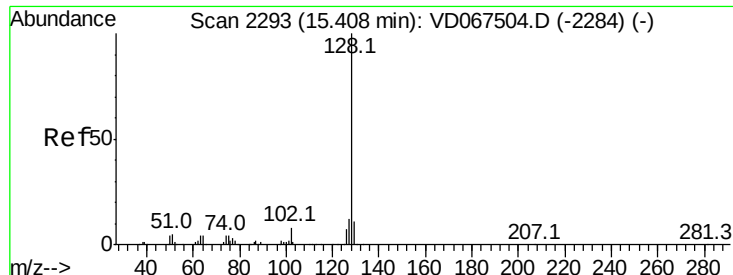


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.060 ug/l

RT: 15.40 min Scan# 2291

Delta R.T. -0.01 min

Lab File: VD067703.D

Acq: 19 Nov 2020 12:54

Instrument :

MSVOA_D

ClientSampleId :

VNJ-223

Tot Ion:128 Resp: 868

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 11.6 8.9 13.3

