

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091120\
 Data File : VD066651.D
 Acq On : 11 Sep 2020 16:29
 Operator : VA/SY
 Sample : L3981-02
 Misc : 11.30G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 12 00:40:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	379168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	664339	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	607429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	228176	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	239170	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
35) Dibromofluoromethane	7.91	113	231413	51.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.28%	
50) Toluene-d8	10.34	98	822455	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	
62) 4-Bromofluorobenzene	12.63	95	254611	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	

Target Compounds

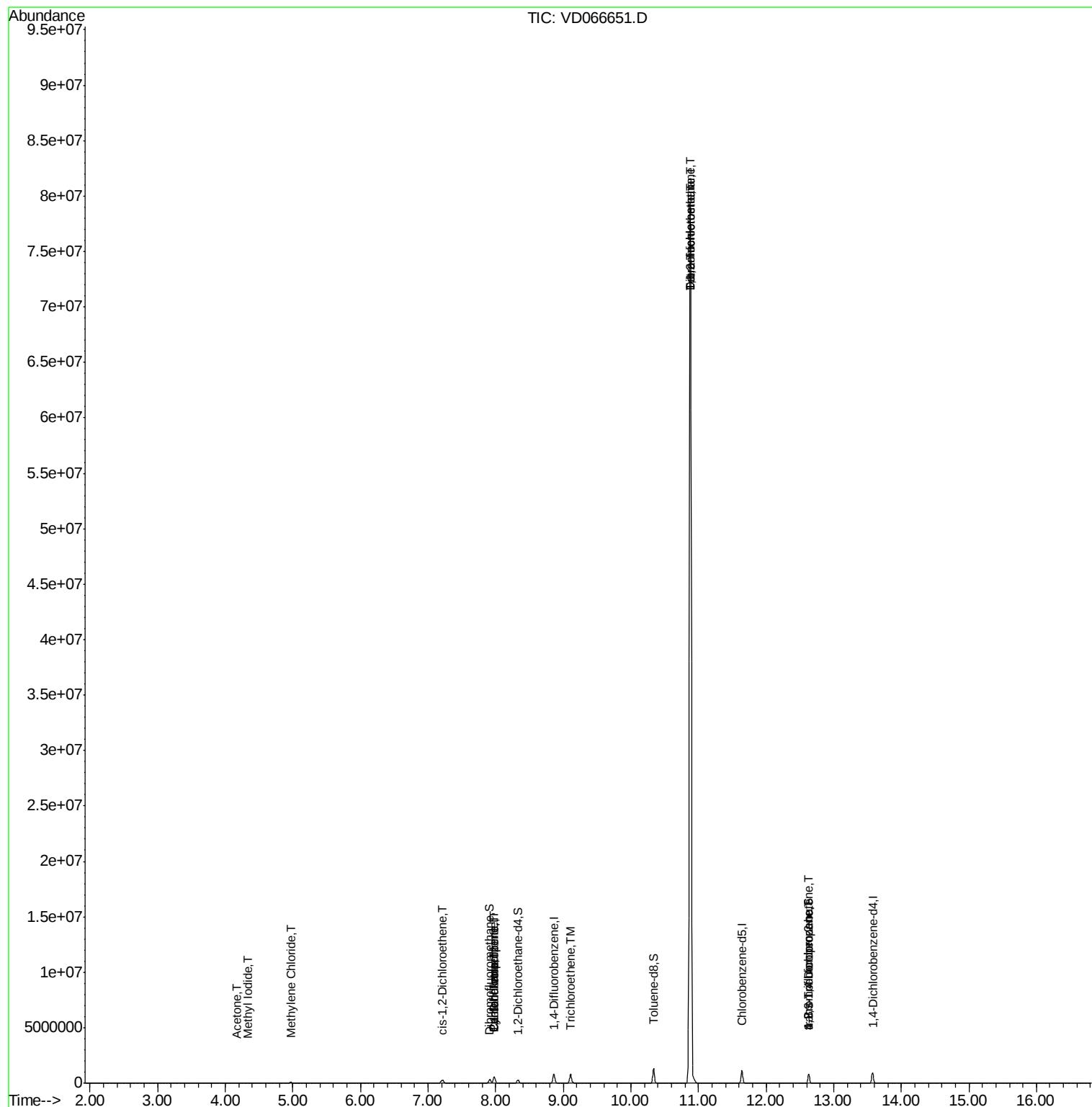
					Qvalue
2) Dichlorodifluoromethane	1.99	85	232	Below Cal	# 46
5) Bromomethane	2.77	94	587	Below Cal	# 92
10) Methyl Iodide	4.33	142	83	4.043 ug/l	# 35
11) Tert butyl alcohol	5.20	59	64	Below Cal	# 74
16) Acetone	4.16	43	2019	2.392 ug/l	# 46
20) Methylene Chloride	4.97	84	43740	3.331 ug/l	# 86
27) cis-1,2-Dichloroethene	7.21	96	169515	34.749 ug/l	# 89
31) Cyclohexane	7.98	56	10654	1.424 ug/l	# 18
36) 1,1-Dichloropropene	7.97	75	34091	4.931 ug/l	# 52
38) Carbon Tetrachloride	7.97	117	44000	6.021 ug/l	# 18
44) Trichloroethene	9.11	130	285471	57.475 ug/l	# 100
55) 1,1,2-Trichloroethane	10.87	97	229024	67.801 ug/l	# 33
60) Dibromochloromethane	10.87	129	19083294	4272.267 ug/l	# 10
64) Tetrachloroethene	10.87	164	19284901	4715.317 ug/l	# 88
76) 1,2,3-Trichloropropane	12.63	75	143007	65.168 ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.63	75	143007	152.144 ug/l	# 7

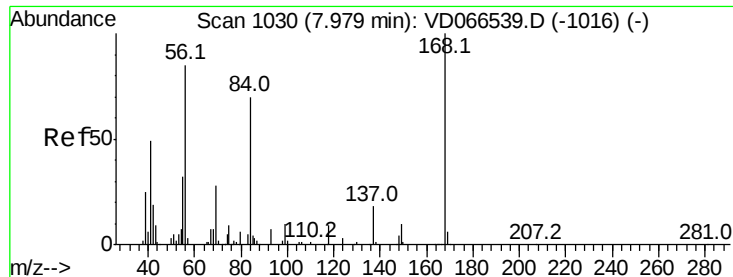
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

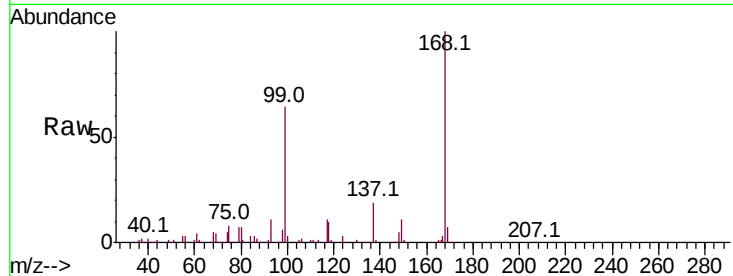
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 379168

Ion Ratio Lower Upper

168 100

99 64.0 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

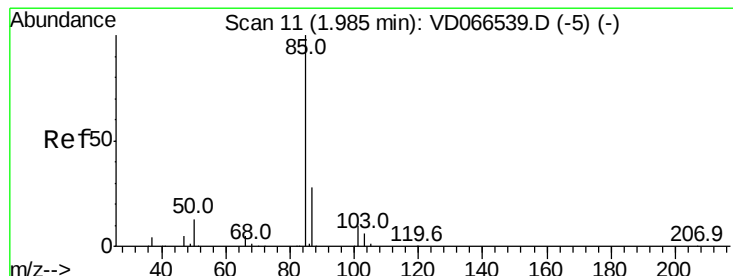
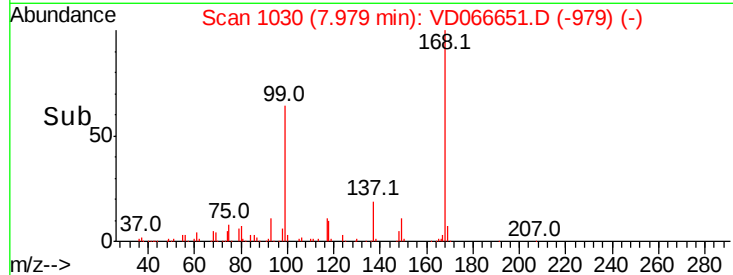
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066651.D

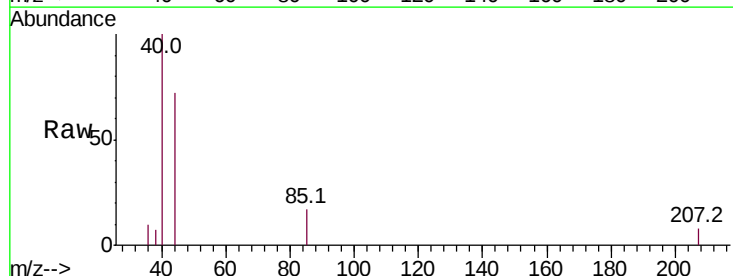
Acq: 11 Sep 2020 16:29

Tgt Ion: 85 Resp: 232

Ion Ratio Lower Upper

85 100

87 0.0 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

500

400

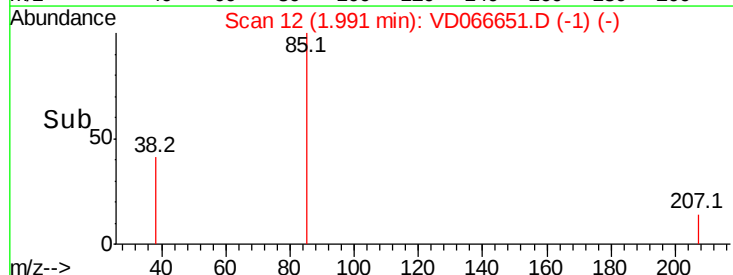
300

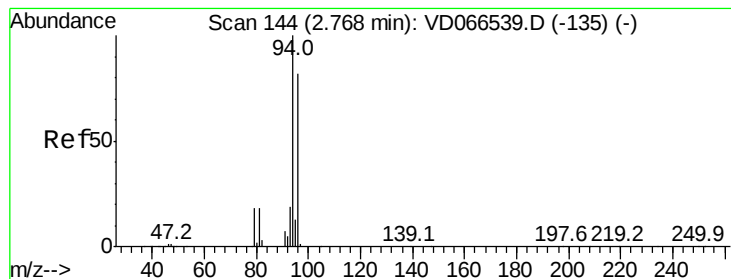
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

Instrument :

MSVOA_D

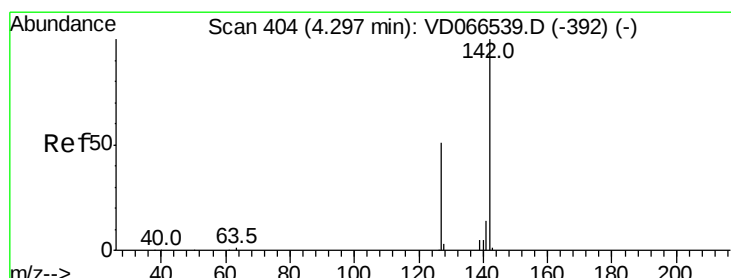
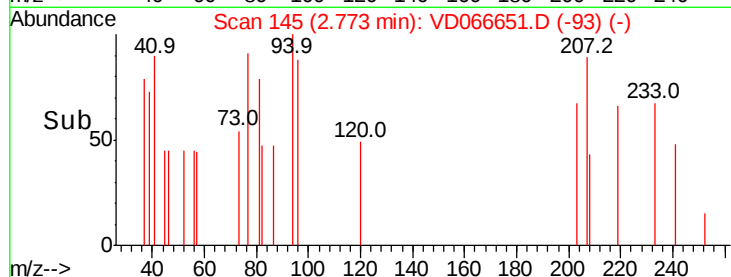
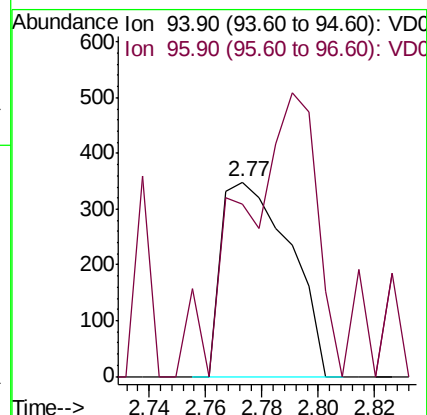
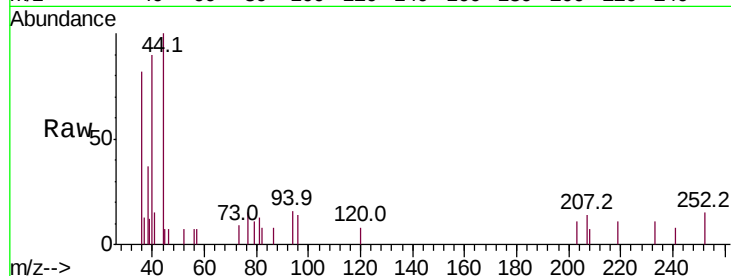
ClientSampled :

Tot Ion: 94 Resp: 587

Ion Ratio Lower Upper

94 100

96 88.3 65.2 97.8



#10

Methyl Iodide

Concen: 4.043 ug/l

RT: 4.33 min Scan# 409

Delta R.T. 0.03 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

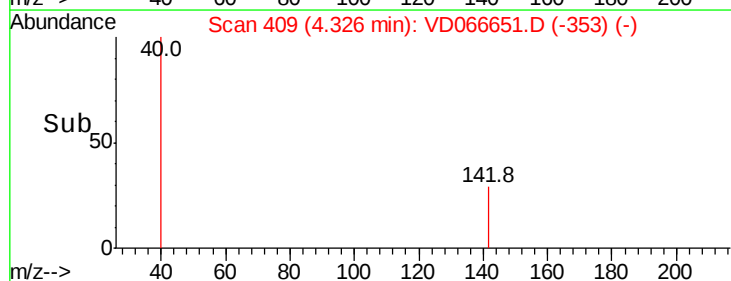
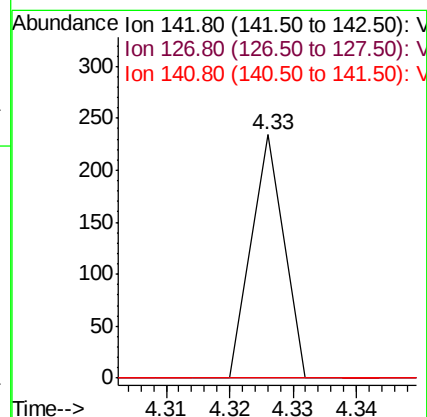
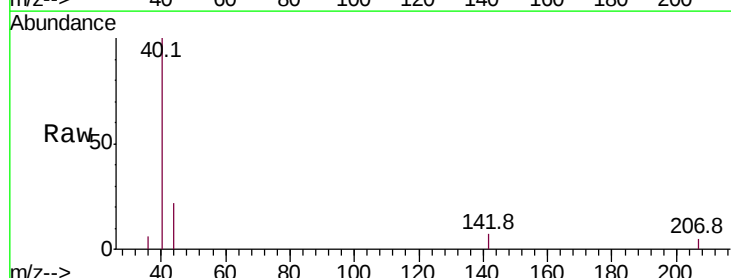
Tgt Ion: 142 Resp: 83

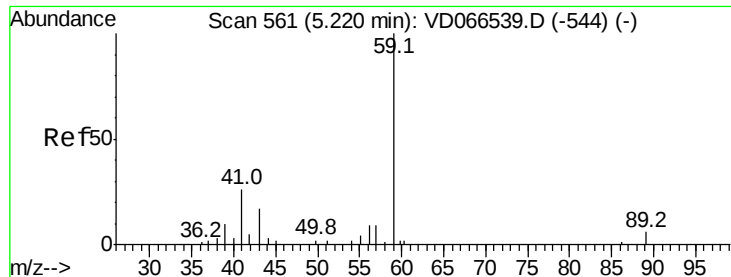
Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

141 0.0 12.2 18.4#

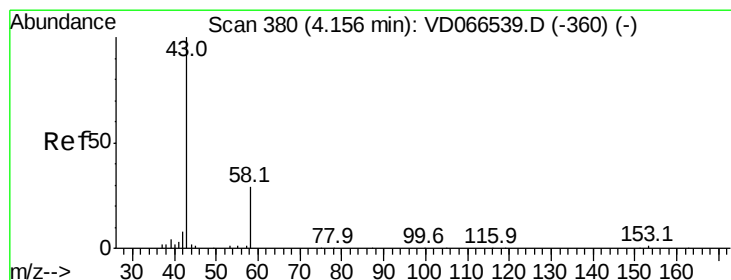
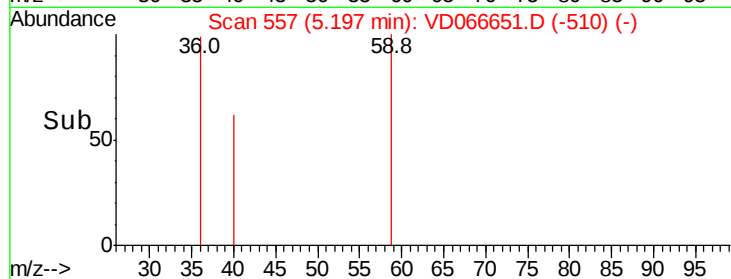
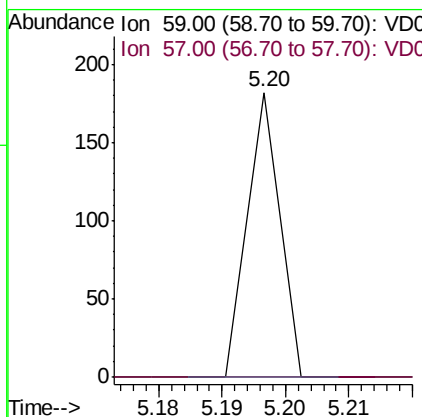
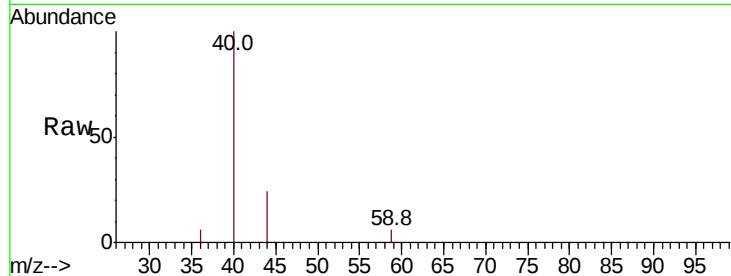




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 557
Delta R.T. -0.02 min
Lab File: VD066651.D
Acq: 11 Sep 2020 16:29

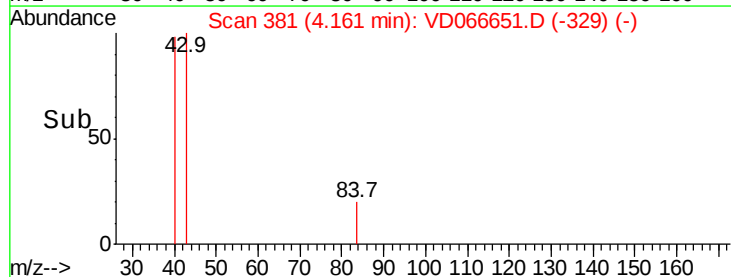
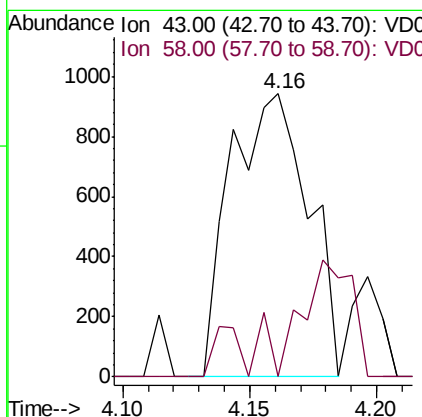
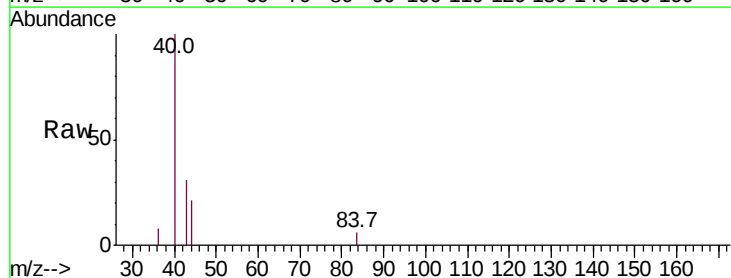
Instrument :
MSVOA_D
ClientSampled :

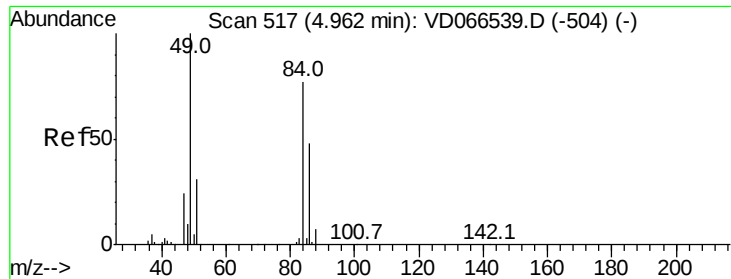
Tot Ion: 59 Resp: 64
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#



#16
Acetone
Concen: 2.392 ug/l
RT: 4.16 min Scan# 381
Delta R.T. 0.01 min
Lab File: VD066651.D
Acq: 11 Sep 2020 16:29

Tgt Ion: 43 Resp: 2019
Ion Ratio Lower Upper
43 100
58 0.0 22.9 34.3#

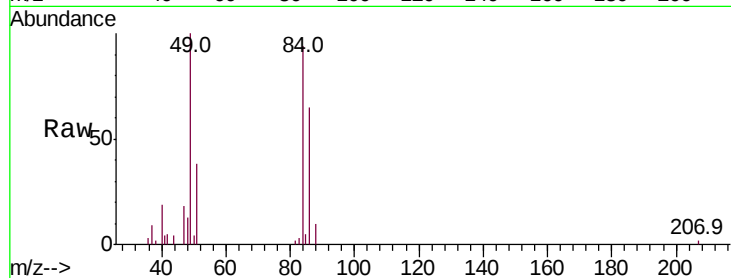




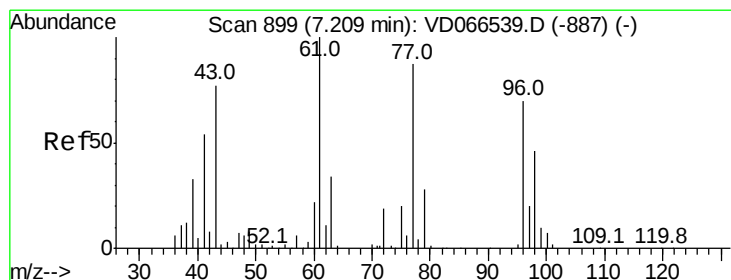
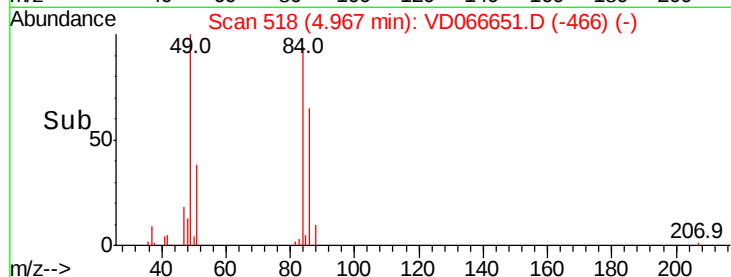
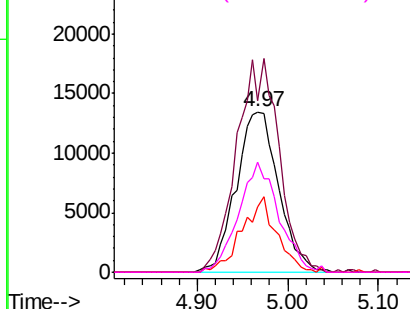
#20
Methvlene Chloride
Concen: 3.331 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD066651.D
Acq: 11 Sep 2020 16:29

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 43740
Ion Ratio Lower Upper
84 100
49 106.8 104.3 156.5
51 40.7 32.2 48.4
86 69.0 50.0 75.0

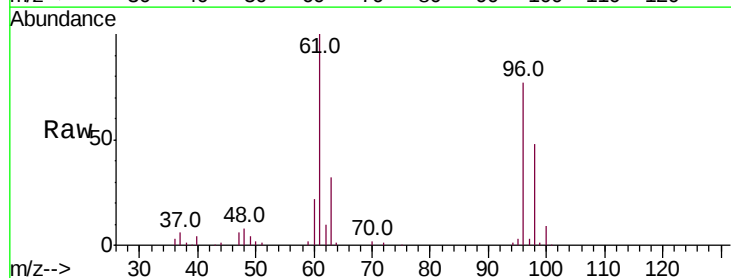


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

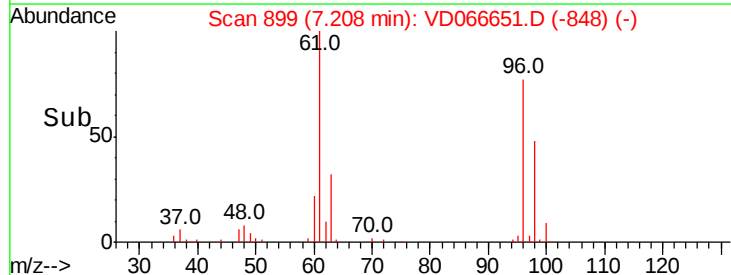
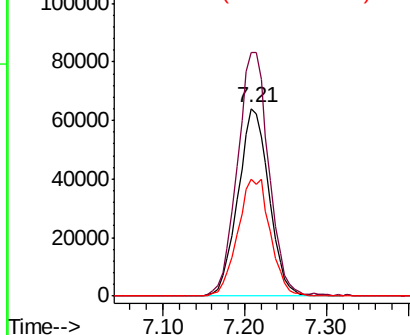


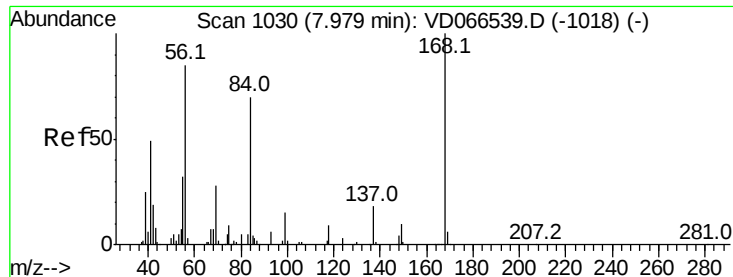
#27
cis-1,2-Dichloroethene
Concen: 34.749 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD066651.D
Acq: 11 Sep 2020 16:29

Tgt Ion: 96 Resp: 169515
Ion Ratio Lower Upper
96 100
61 131.0 0.0 301.0
98 65.5 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC

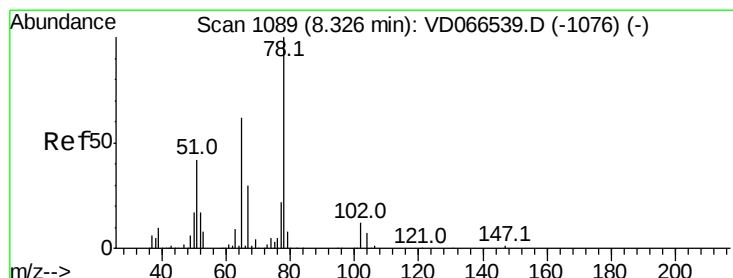
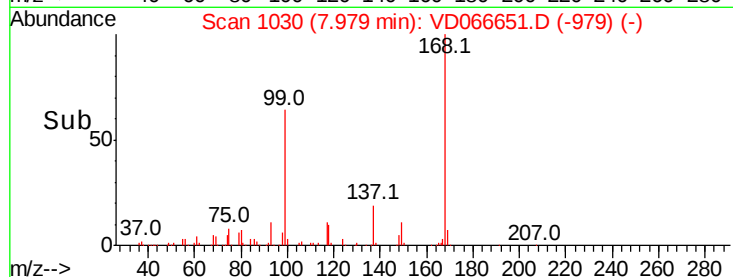
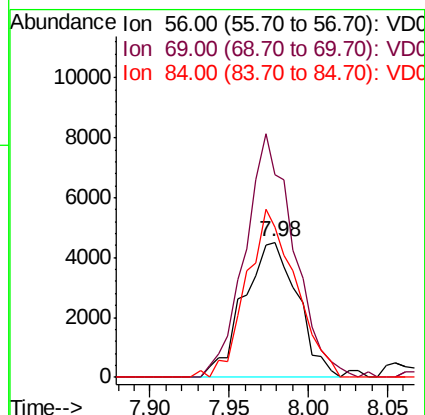
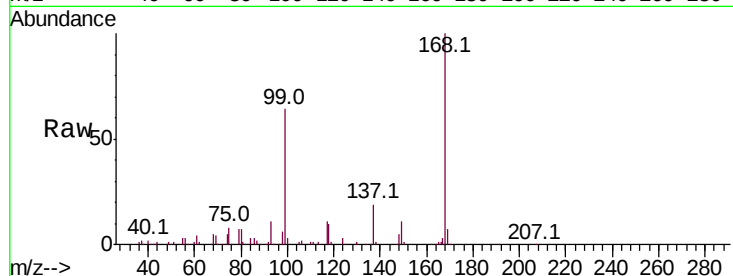




#31
Cyclohexane
Concen: 1.424 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066651.D
Acq: 11 Sep 2020 16:29

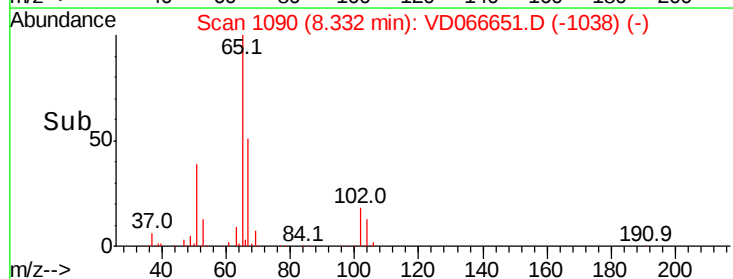
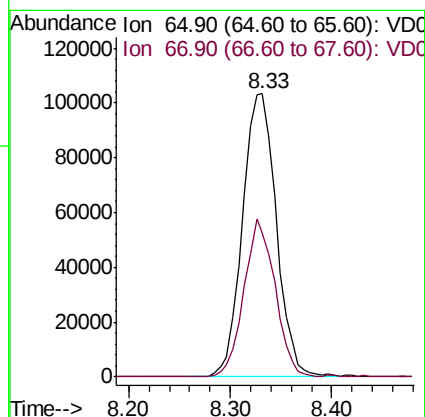
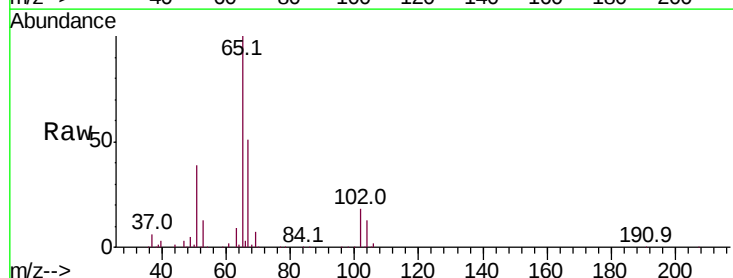
Instrument :
MSVOA_D
ClientSampled :

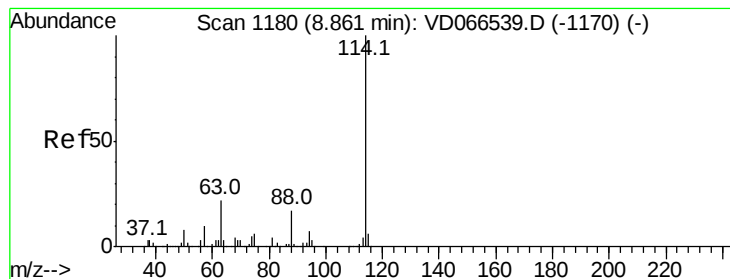
Tot Ion: 56 Resp: 10654
Ion Ratio Lower Upper
56 100
69 149.4 26.3 39.5#
84 111.3 66.1 99.1#



#33
1,2-Dichloroethane-d4
Concen: 52.134 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VD066651.D
Acq: 11 Sep 2020 16:29

Tgt Ion: 65 Resp: 239170
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

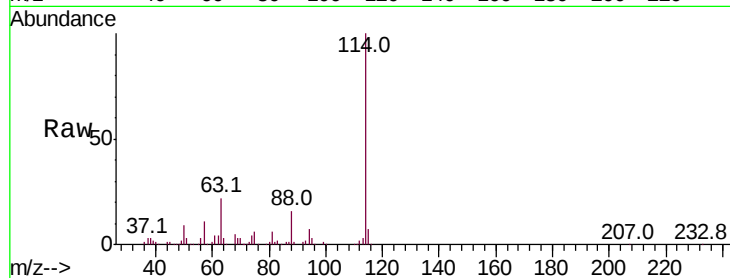
Tot Ion:114 Resp: 664339

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

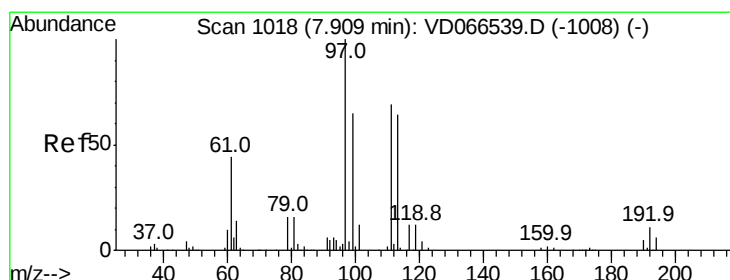
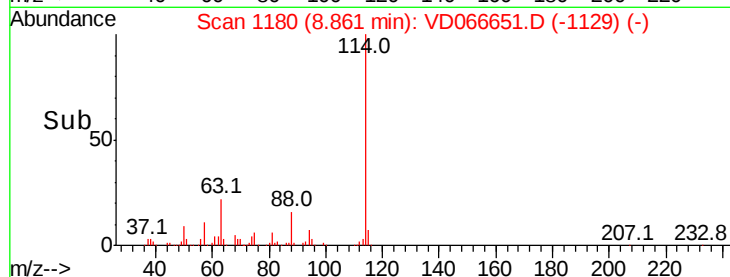
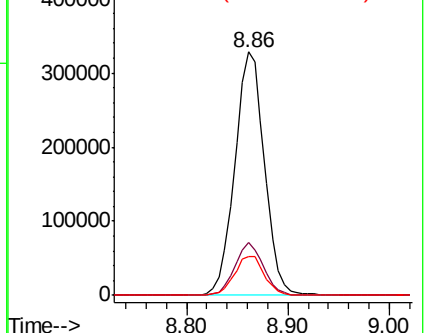
88 16.2 0.0 33.2



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: 51.635 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

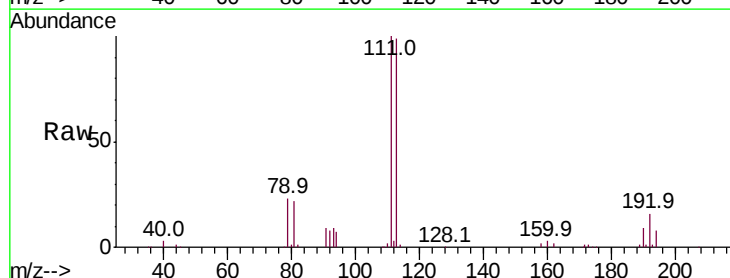
Tgt Ion:113 Resp: 231413

Ion Ratio Lower Upper

113 100

111 99.9 83.2 124.8

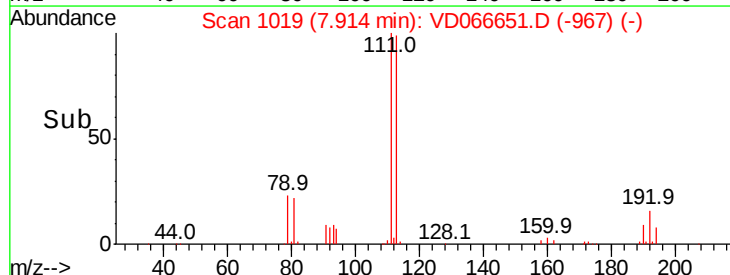
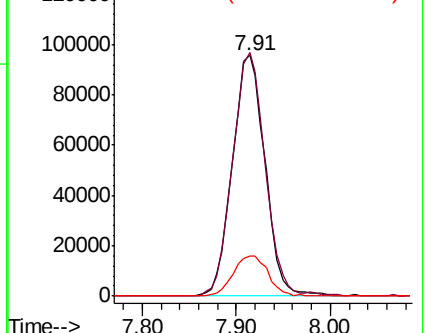
192 17.6 13.7 20.5

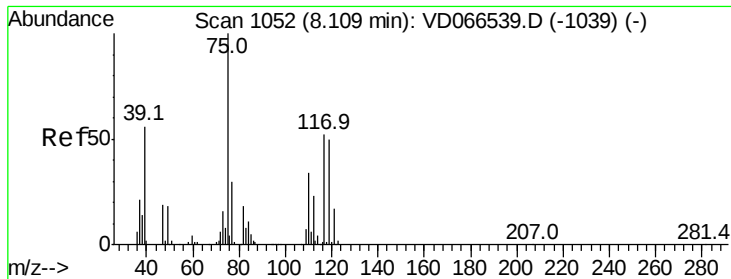


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

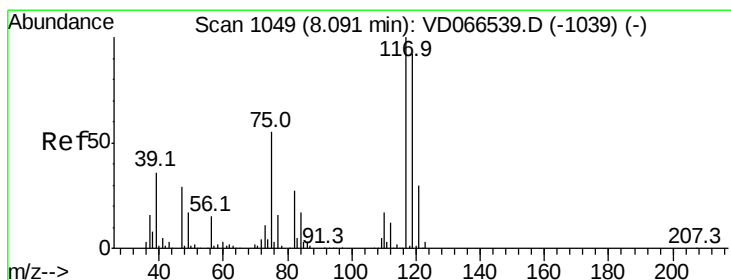
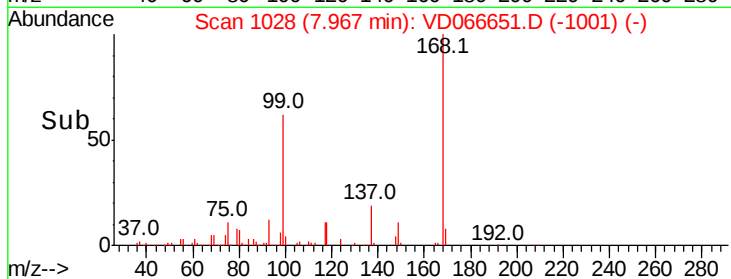
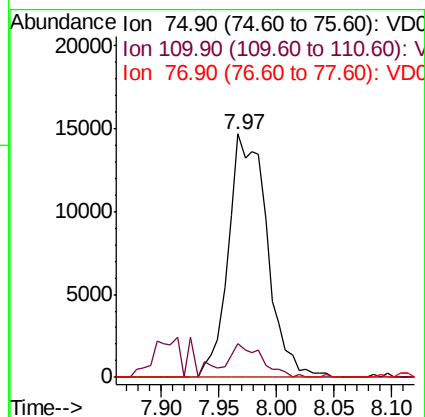
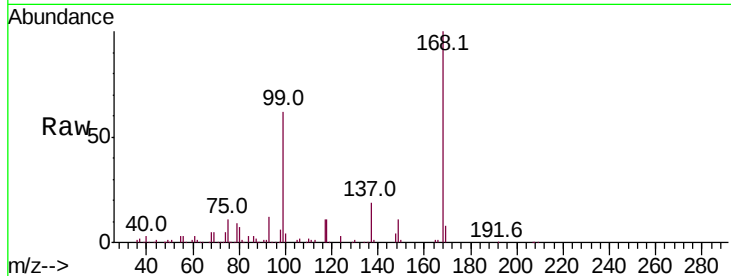




#36
 1,1-Dichloropropene
 Concen: 4.931 ug/l
 RT: 7.97 min Scan# 1028
 Delta R.T. -0.14 min
 Lab File: VD066651.D
 Acq: 11 Sep 2020 16:29

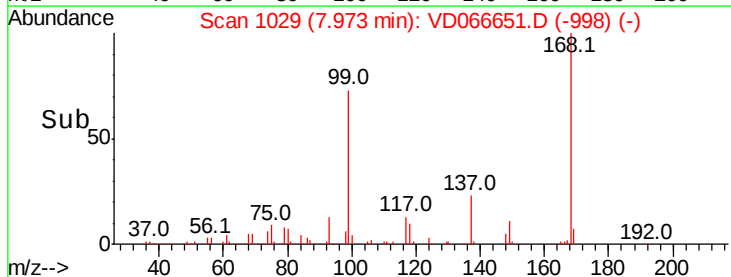
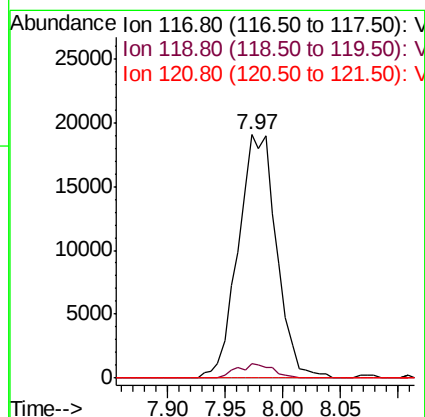
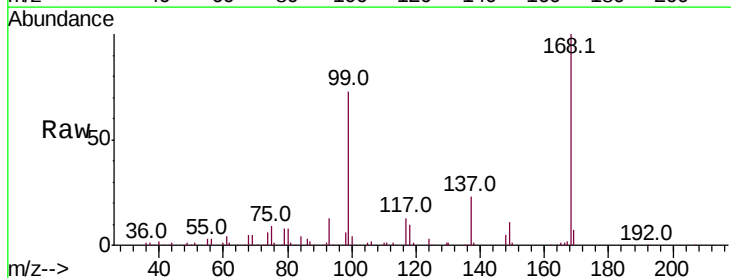
Instrument :
 MSVOA_D
 ClientSampleId :

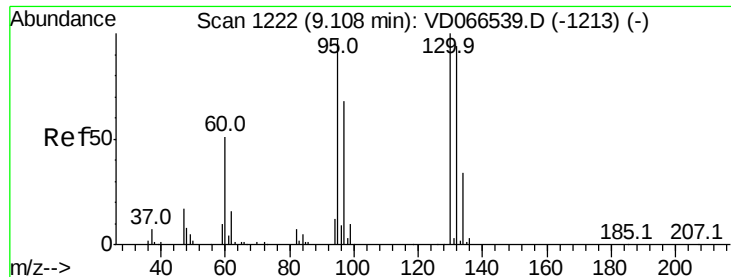
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.4	17.3	52.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.021 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.12 min
 Lab File: VD066651.D
 Acq: 11 Sep 2020 16:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	73.9	110.9#
121	0.0	24.1	36.1#





#44

Trichloroethene

Concen: 57.475 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.01 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

Instrument :

MSVOA_D

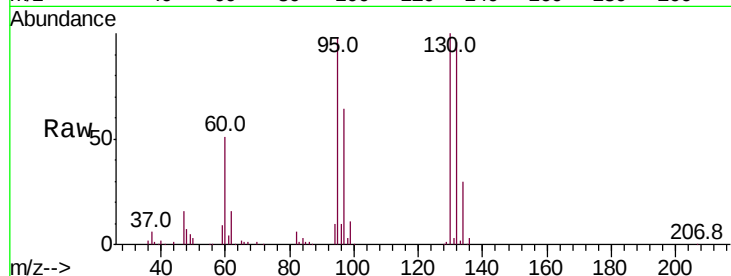
ClientSampleId :

Tot Ion:130 Resp: 285471

Ion Ratio Lower Upper

130 100

95 97.7 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

150000

100000

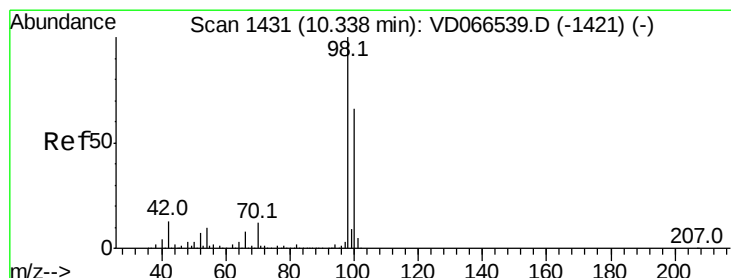
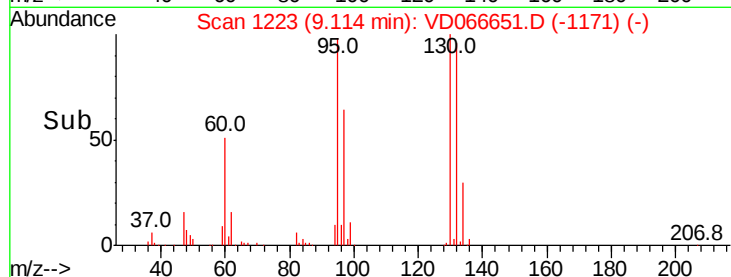
50000

0

9.11

9.00 9.10 9.20

Time-->



#50

Toluene-d8

Concen: 51.345 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066651.D

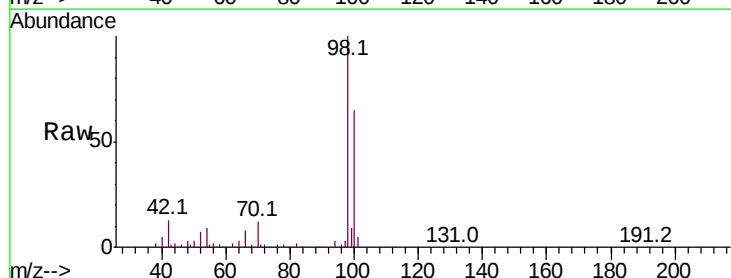
Acq: 11 Sep 2020 16:29

Tgt Ion: 98 Resp: 822455

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VD

500000

400000

300000

200000

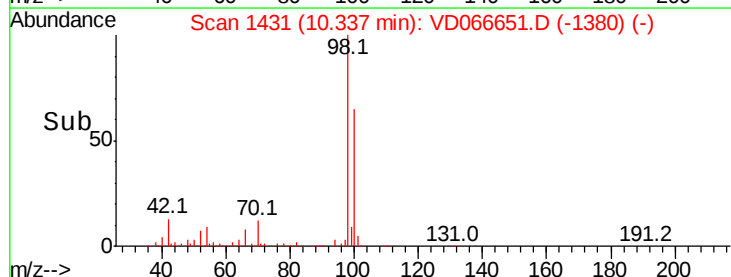
100000

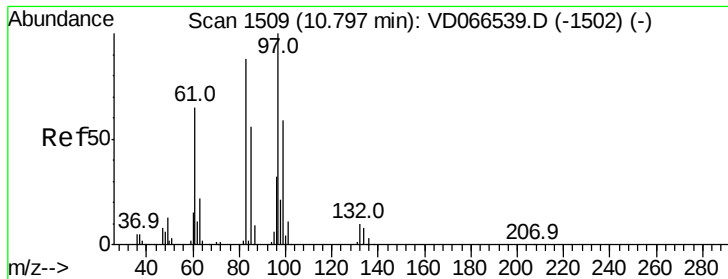
0

10.34

10.30 10.40

Time-->

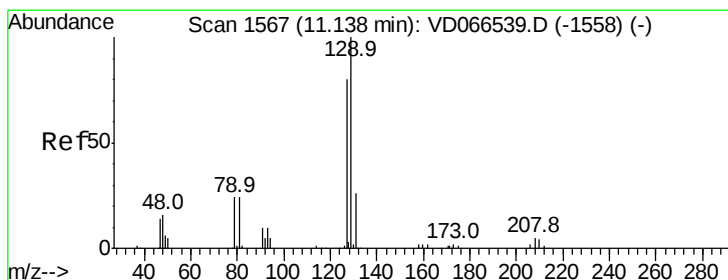
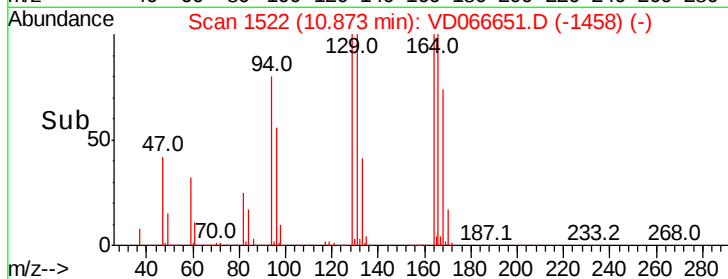
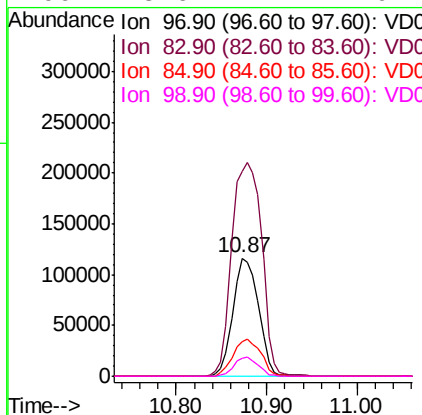
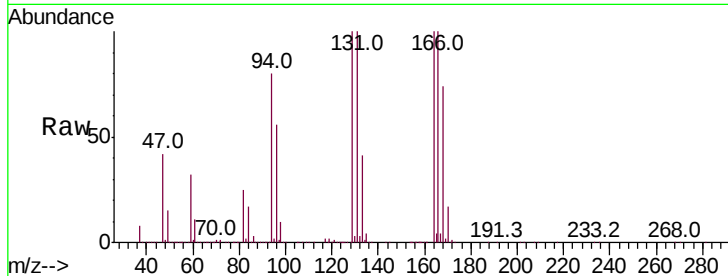




#55
 1,1,2-Trichloroethane
 Concen: 67.801 ug/l
 RT: 10.87 min Scan# 1522
 Delta R.T. 0.08 min
 Lab File: VD066651.D
 Acq: 11 Sep 2020 16:29

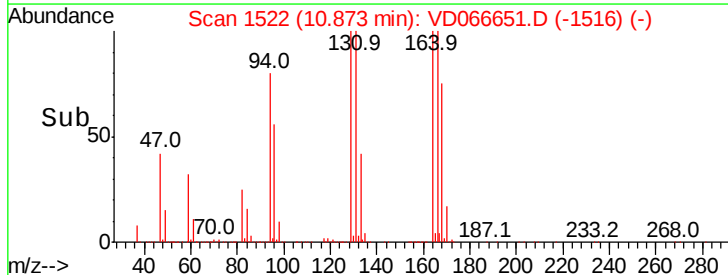
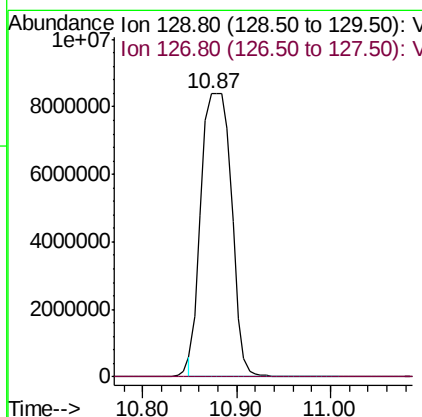
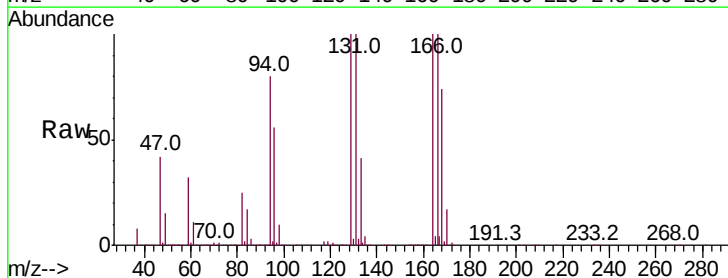
Instrument :
 MSVOA_D
 ClientSampleId :

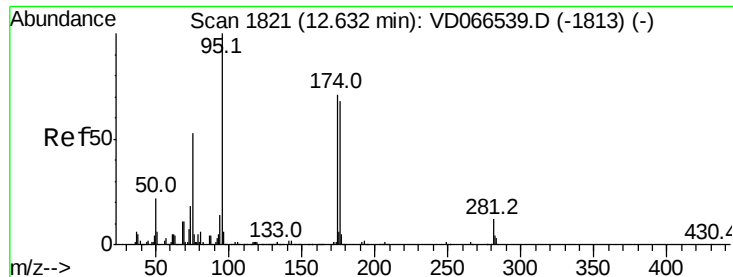
Tot Ion: 97 Resp: 229024
 Ion Ratio Lower Upper
 97 100
 83 173.6 70.1 105.1#
 85 29.0 44.5 66.7#
 99 15.6 47.1 70.7#



#60
 Dibromochloromethane
 Concen: 4272.267 ug/l
 RT: 10.87 min Scan# 1522
 Delta R.T. -0.27 min
 Lab File: VD066651.D
 Acq: 11 Sep 2020 16:29

Tgt Ion:129 Resp:19083294
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.5 118.3#





#62

4-Bromofluorobenzene

Concen: 47.936 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

Instrument :

MSVOA_D

ClientSampled :

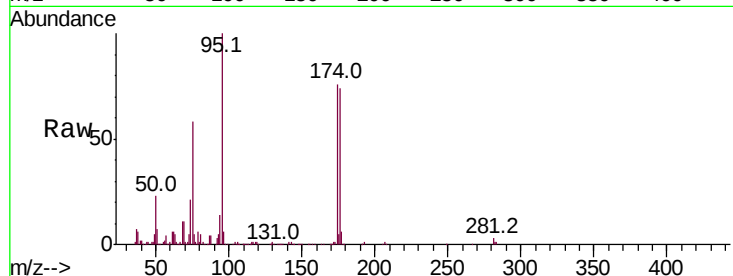
Tot Ion: 95 Resp: 254611

Ion Ratio Lower Upper

95 100

174 75.2 0.0 155.8

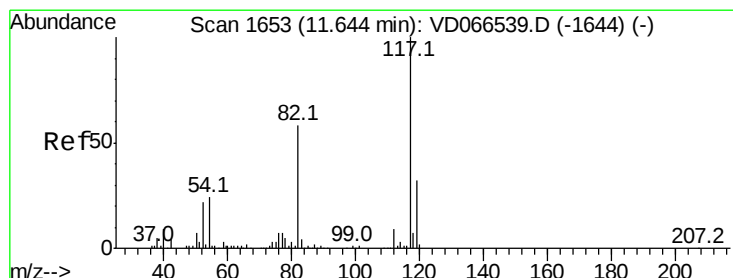
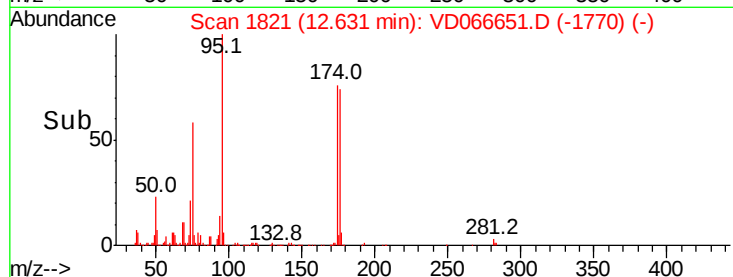
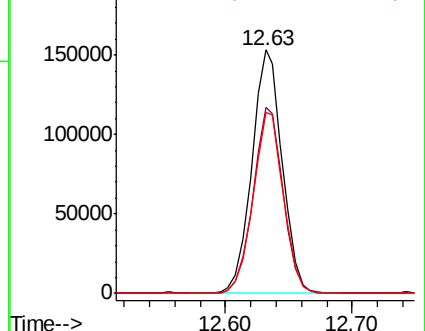
176 73.8 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

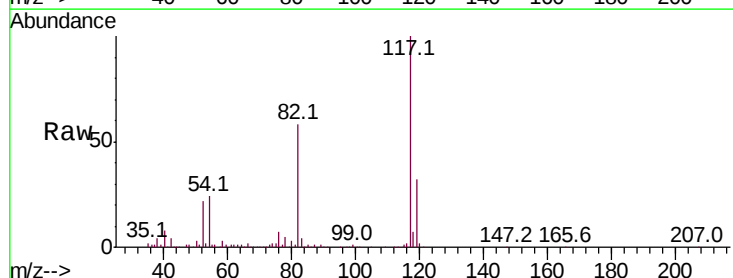
Tgt Ion: 117 Resp: 607429

Ion Ratio Lower Upper

117 100

82 58.2 46.2 69.2

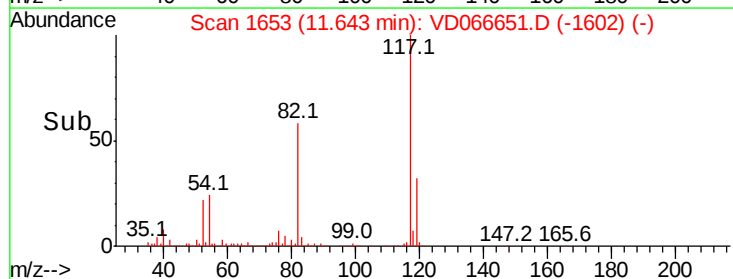
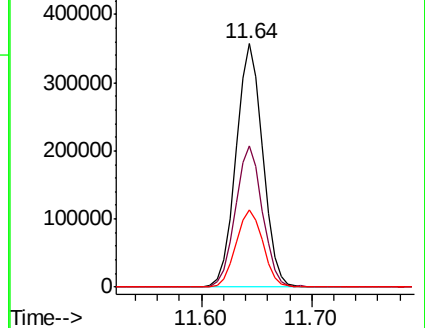
119 31.9 25.8 38.8

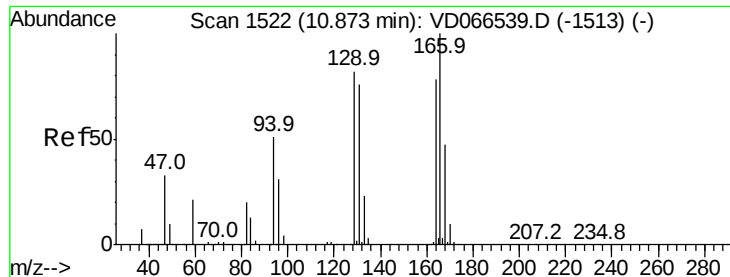


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 4715.317 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.00 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:164 Resp:19284901

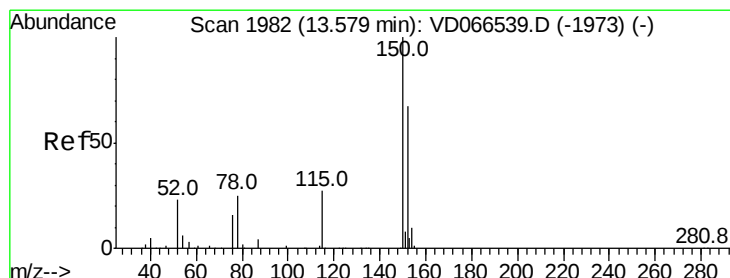
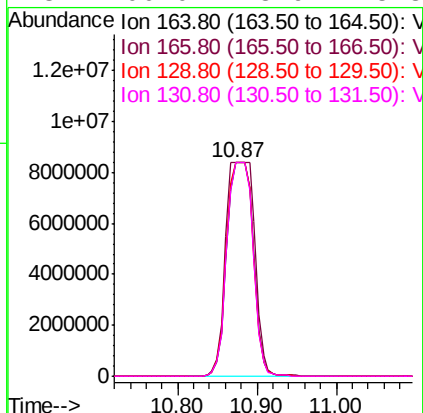
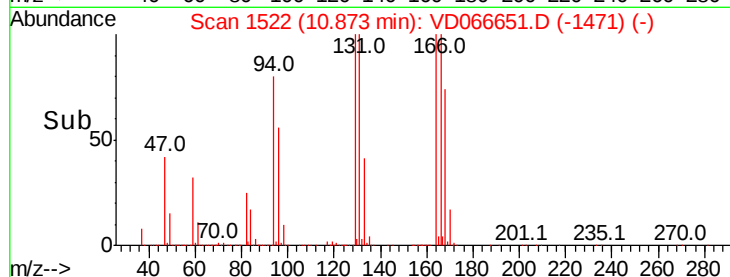
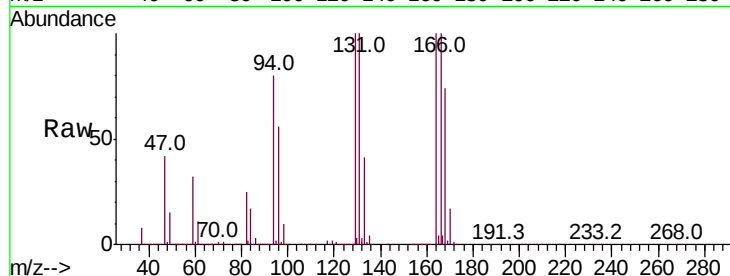
Ion Ratio Lower Upper

164 100

166 100.0 103.2 154.8#

129 100.0 84.5 126.7

131 100.0 78.9 118.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

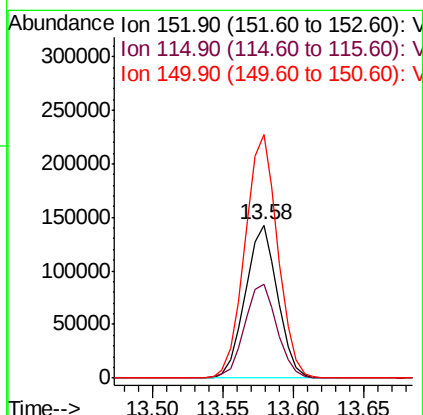
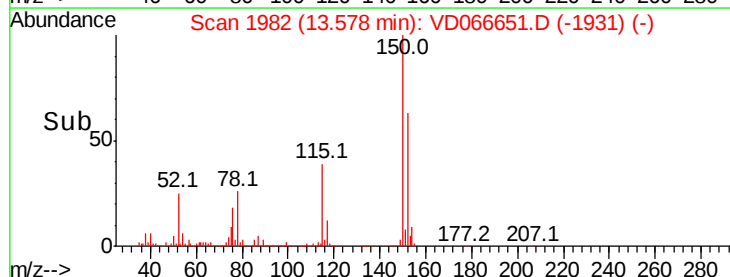
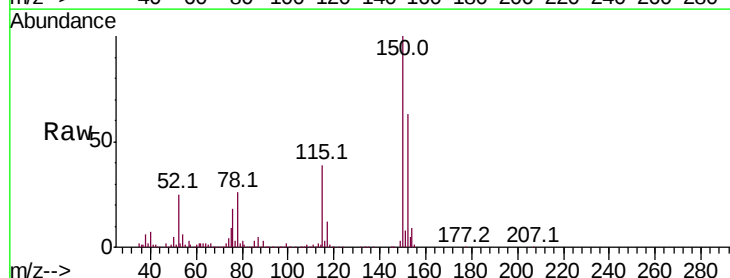
Tgt Ion:152 Resp: 228176

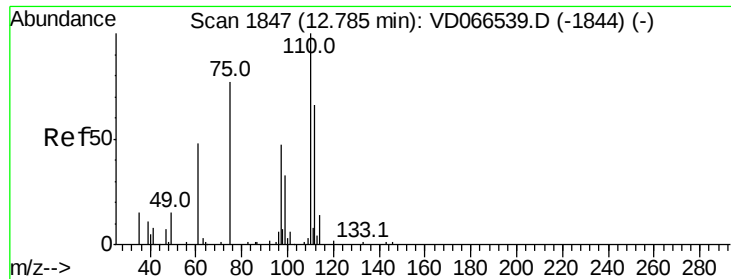
Ion Ratio Lower Upper

152 100

115 62.4 30.4 91.2

150 161.6 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 65.168 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

Instrument :

MSVOA_D

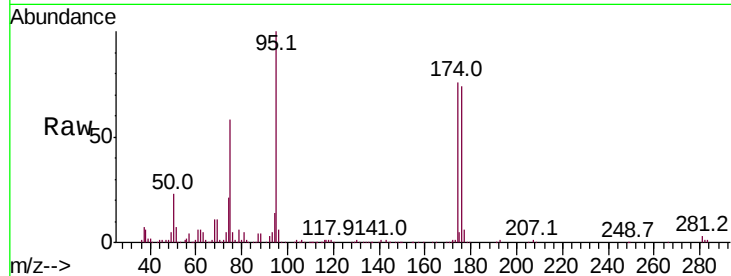
ClientSampleId :

Tot Ion: 75 Resp: 143007

Ion Ratio Lower Upper

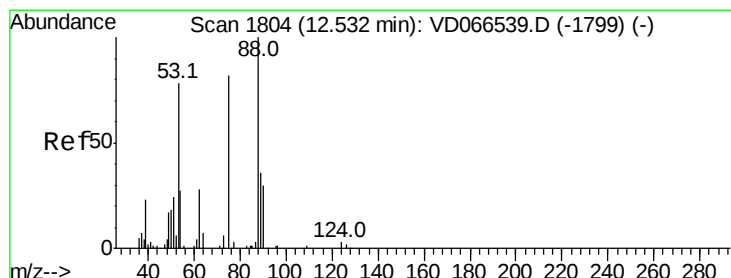
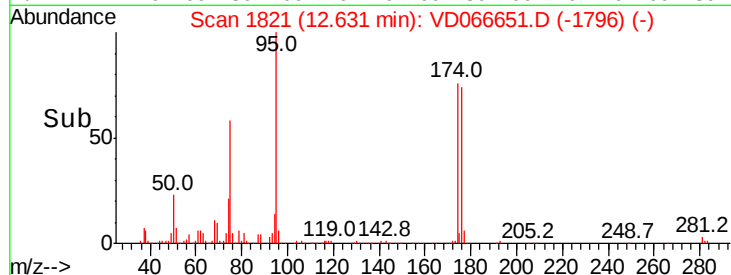
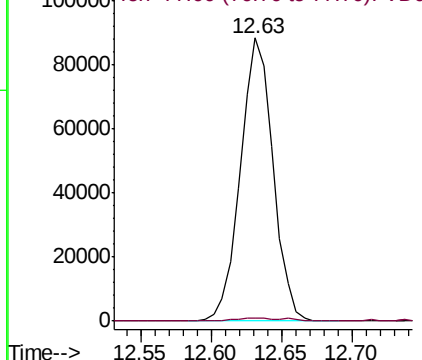
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 152.144 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066651.D

Acq: 11 Sep 2020 16:29

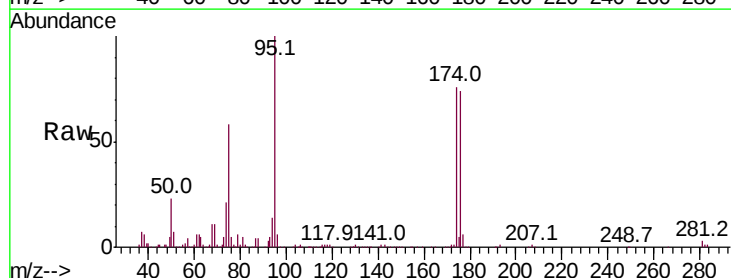
Tgt Ion: 75 Resp: 143007

Ion Ratio Lower Upper

75 100

53 0.0 87.0 130.4#

89 0.1 37.1 55.7#



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

