

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091120\
 Data File : VD066656.D
 Acq On : 11 Sep 2020 18:47
 Operator : VA/SY
 Sample : L3981-07
 Misc : 9.62G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 12 00:41:37 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	383474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	670054	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	599080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	210878	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	233260	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
35) Dibromofluoromethane	7.91	113	228996	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
50) Toluene-d8	10.34	98	797243	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.63	95	238100	44.45	ug/l	0.00
Spiked Amount			Recovery	=	88.90%	

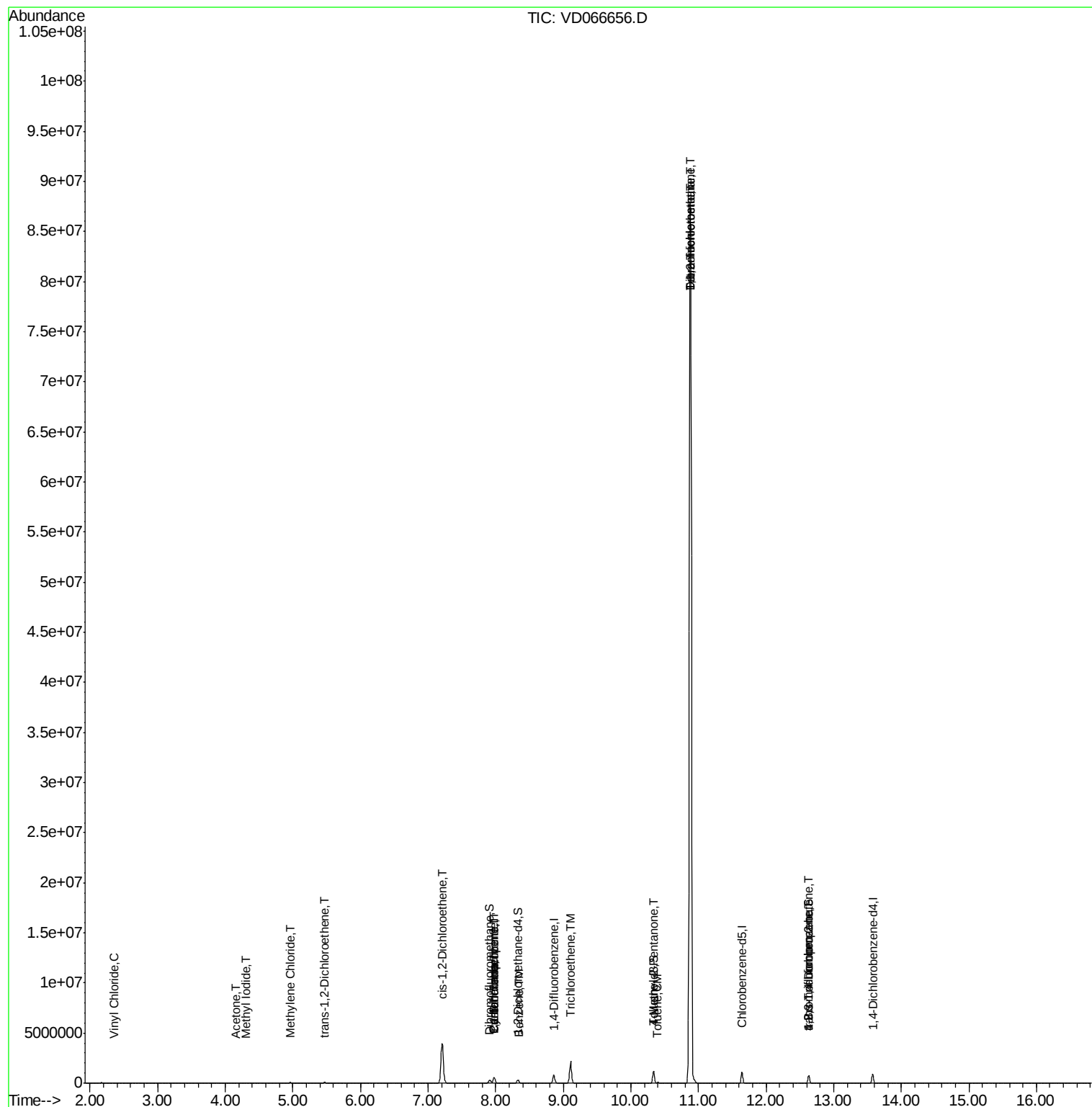
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	240	Below Cal	#	46
4) Vinyl Chloride	2.35	62	11138	2.071	ug/l #	82
5) Bromomethane	2.78	94	536	Below Cal	#	9
10) Methyl Iodide	4.31	142	145	4.057	ug/l #	35
11) Tert butyl alcohol	4.98	59	71	Below Cal	#	74
16) Acetone	4.16	43	935	1.095	ug/l #	46
20) Methylene Chloride	4.97	84	35957	1.280	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	33023	7.198	ug/l	95
27) cis-1,2-Dichloroethene	7.21	96	2343532	475.002	ug/l	88
31) Cyclohexane	7.98	56	12266	1.621	ug/l #	5
36) 1,1-Dichloropropene	7.97	75	35267	5.057	ug/l #	51
38) Carbon Tetrachloride	7.97	117	44323	6.013	ug/l #	18
40) Benzene	8.35	78	25434	1.332	ug/l	93
44) Trichloroethene	9.11	130	763596	152.426	ug/l	89
51) 4-Methyl-2-Pentanone	10.34	43	4083	1.521	ug/l #	1
52) Toluene	10.40	92	21750	1.799	ug/l	97
55) 1,1,2-Trichloroethane	10.87	97	279305	81.981	ug/l #	39
60) Dibromochloromethane	10.87	129	21314921	4731.171	ug/l #	10
64) Tetrachloroethene	10.87	164	21679715	5374.744	ug/l #	88
76) 1,2,3-Trichloropropane	12.63	75	133797	65.972	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	133797	154.022	ug/l #	7

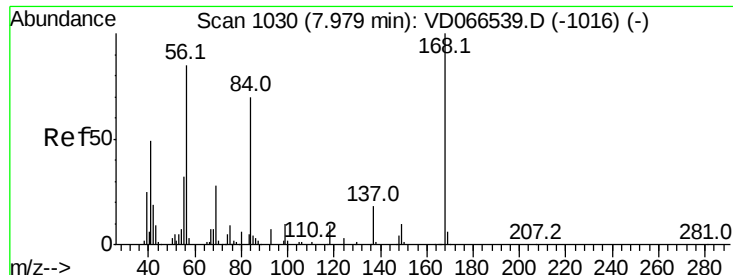
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 04 01:57:04 2020
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: VD066656.D

Acq: 11 Sep 2020 18:47

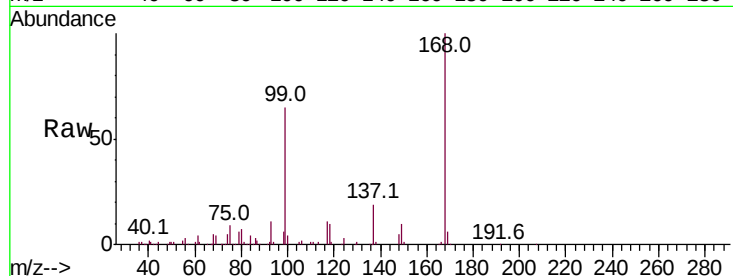
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 383474

Ion Ratio Lower Upper

168 100

99 64.8 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

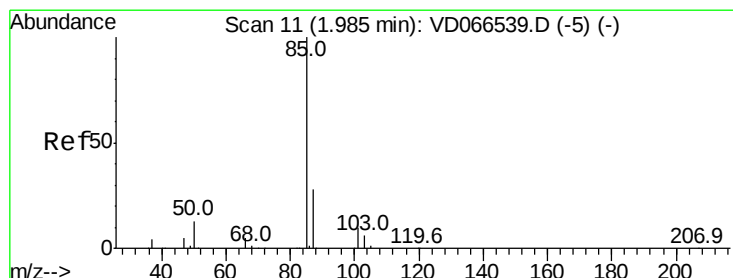
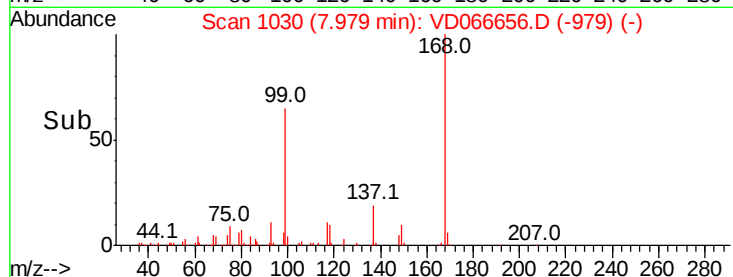
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066656.D

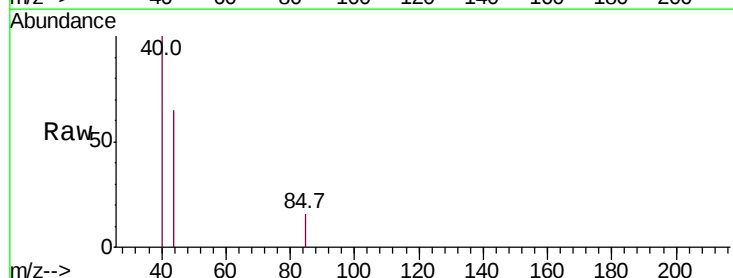
Acq: 11 Sep 2020 18:47

Tgt Ion: 85 Resp: 240

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

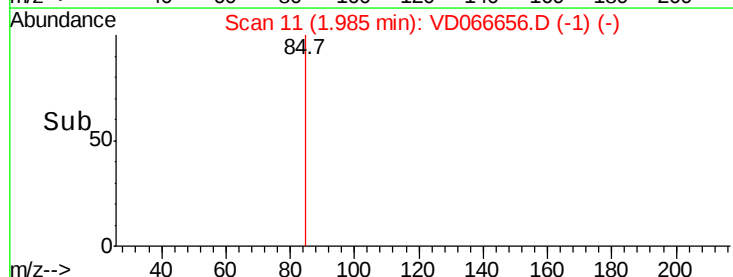
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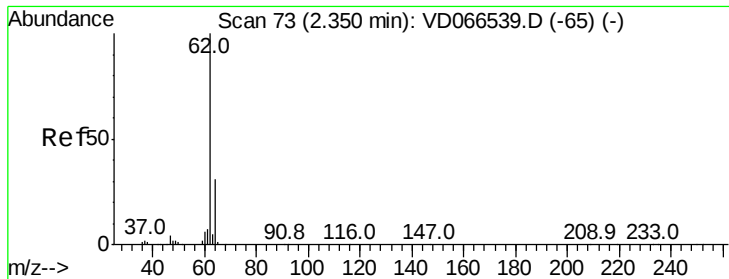
200

100

0

Time-->





#4

Vinyl Chloride

Concen: 2.071 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Instrument :

MSVOA_D

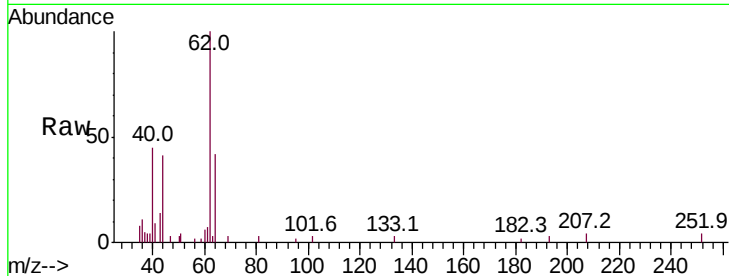
ClientSampled :

Tot Ion: 62 Resp: 11138

Ion Ratio Lower Upper

62 100

64 41.6 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.35

8000

6000

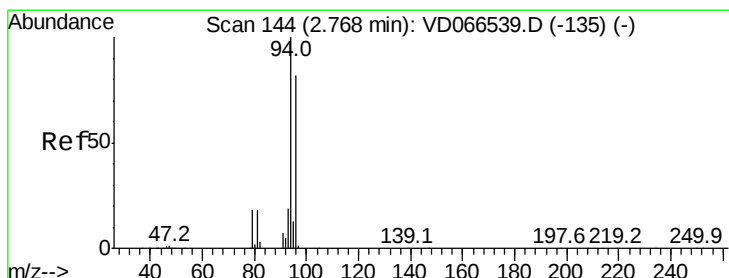
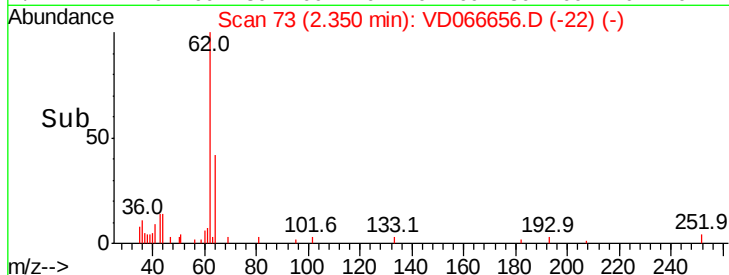
4000

2000

0

Time-->

2.30 2.35 2.40



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD066656.D

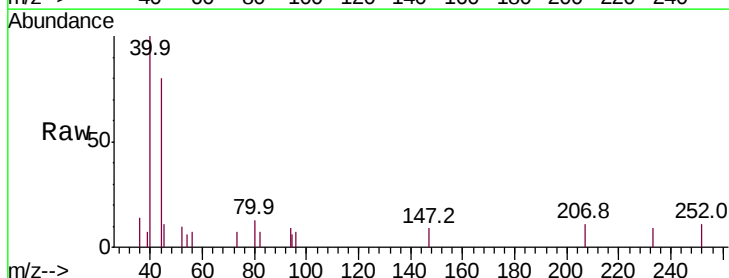
Acq: 11 Sep 2020 18:47

Tgt Ion: 94 Resp: 536

Ion Ratio Lower Upper

94 100

96 0.0 65.2 97.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.78

500

400

300

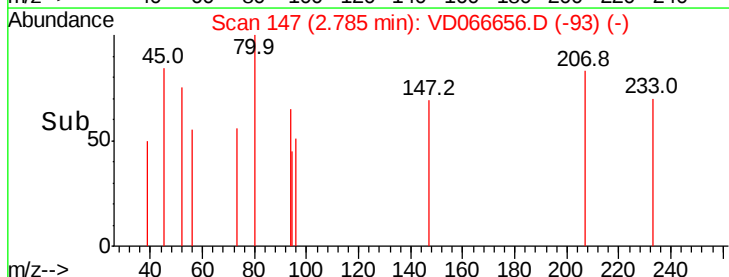
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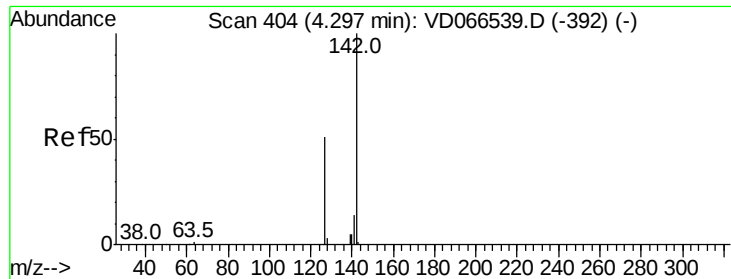
100

0

Time-->

2.74 2.76 2.78 2.80

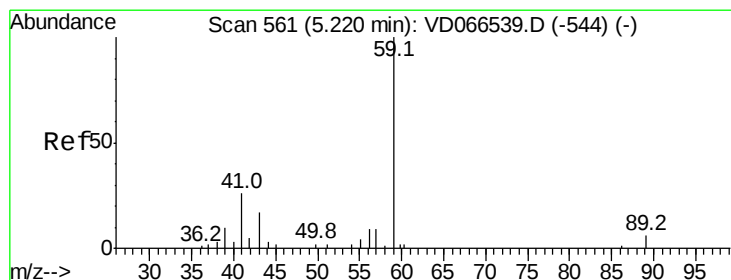
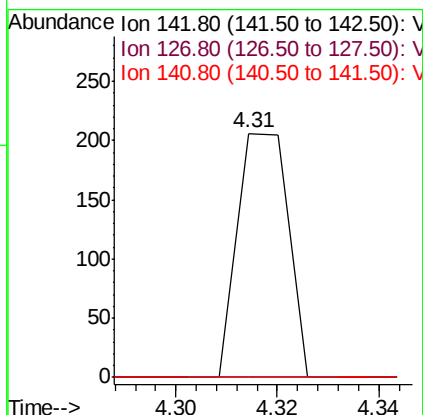
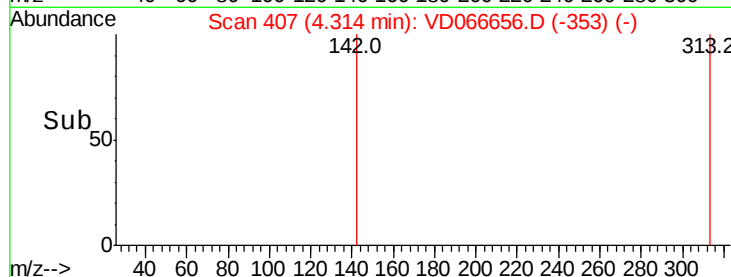
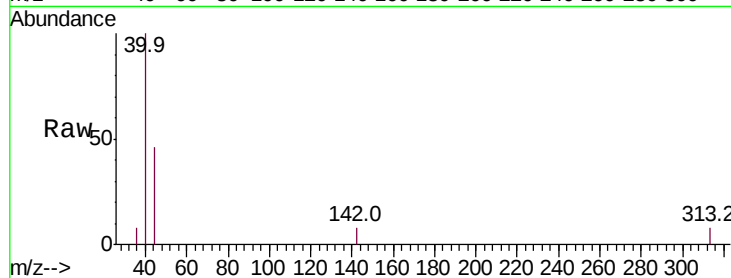




#10
Methyl Iodide
Concen: 4.057 ug/l
RT: 4.31 min Scan# 407
Delta R.T. 0.02 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

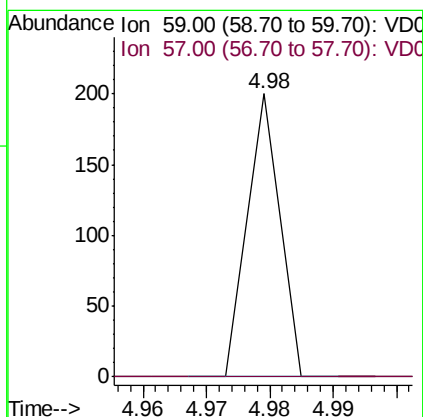
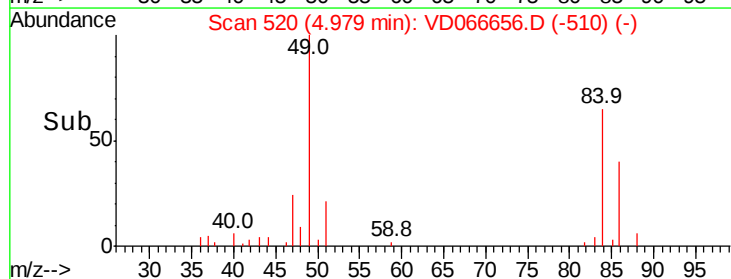
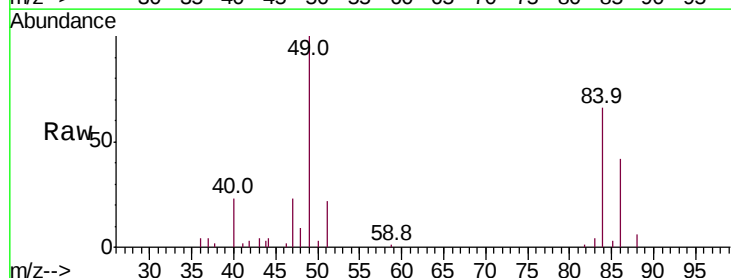
Instrument :
MSVOA_D
ClientSampleID :

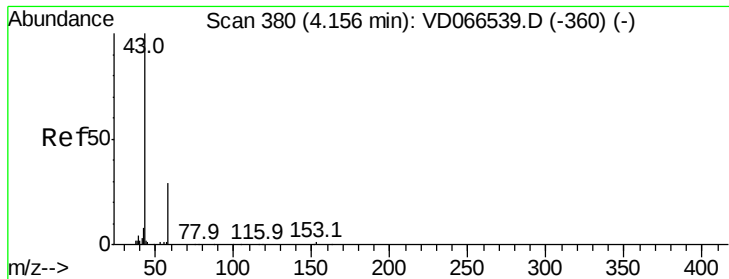
Tot Ion:142 Resp: 145
Ion Ratio Lower Upper
142 100
127 0.0 40.6 61.0#
141 0.0 12.2 18.4#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. -0.24 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Tgt Ion: 59 Resp: 71
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#





#16

Acetone

Concen: 1.095 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Instrument :

MSVOA_D

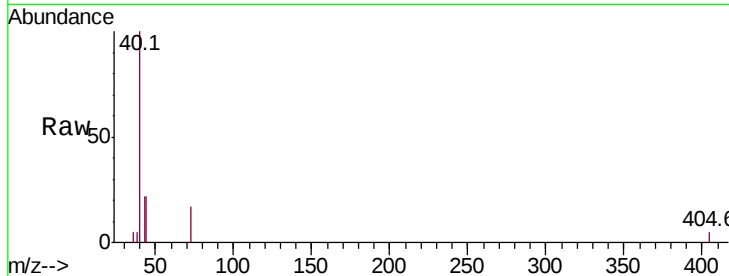
ClientSampleId :

Tot Ion: 43 Resp: 935

Ion Ratio Lower Upper

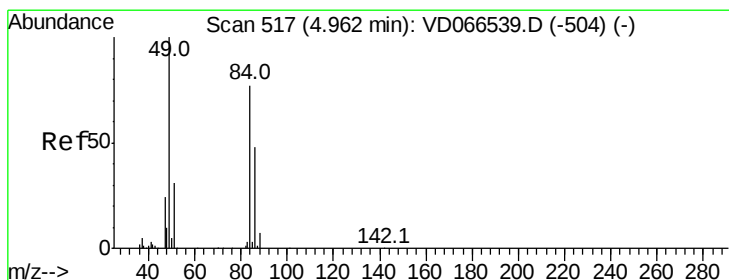
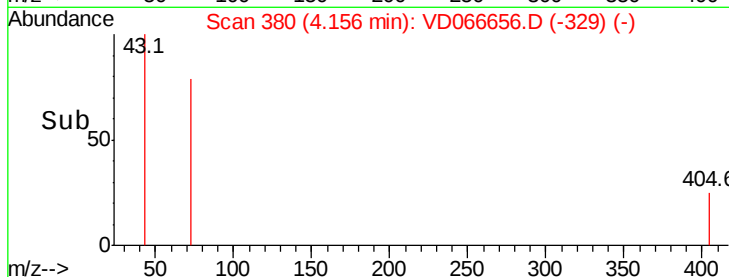
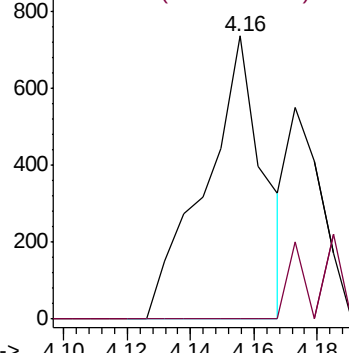
43 100

58 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 1.280 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Tgt Ion: 84 Resp: 35957

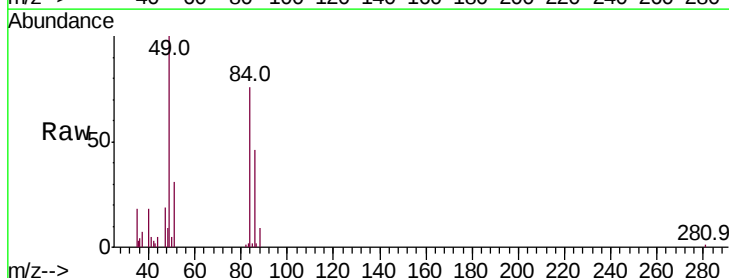
Ion Ratio Lower Upper

84 100

49 131.6 104.3 156.5

51 40.9 32.2 48.4

86 60.0 50.0 75.0

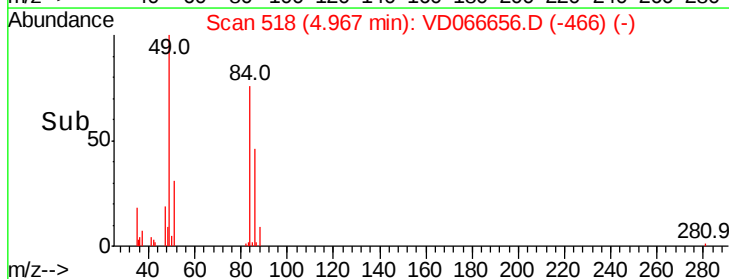
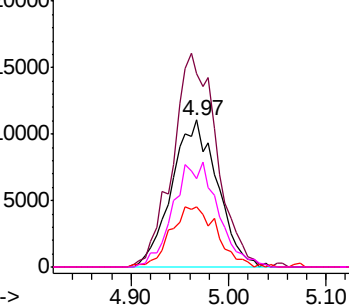


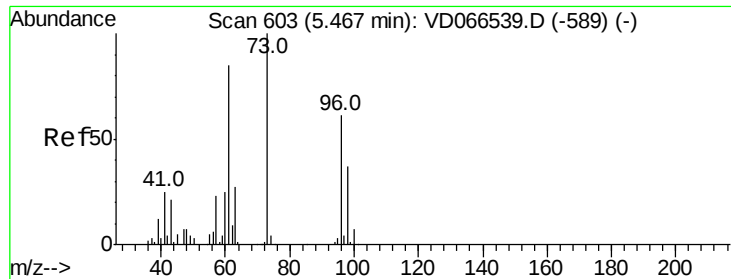
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

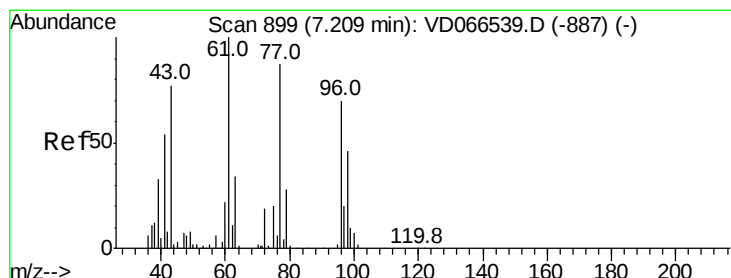
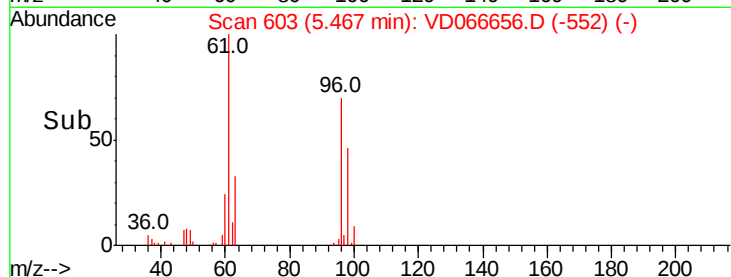
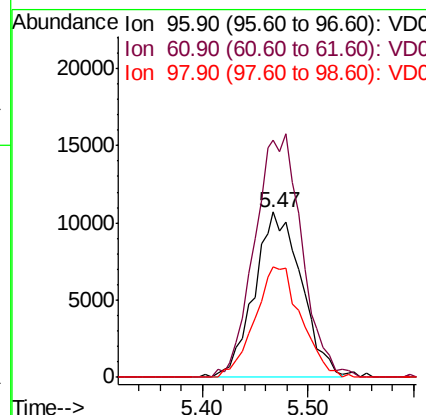
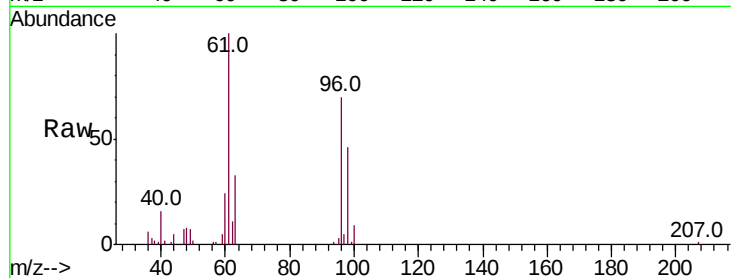




#21
trans-1,2-Dichloroethene
Concen: 7.198 ug/l
RT: 5.47 min Scan# 603
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

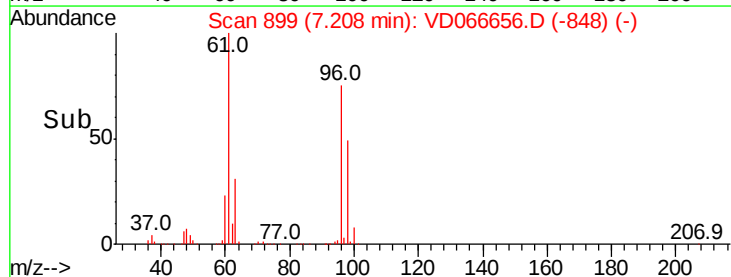
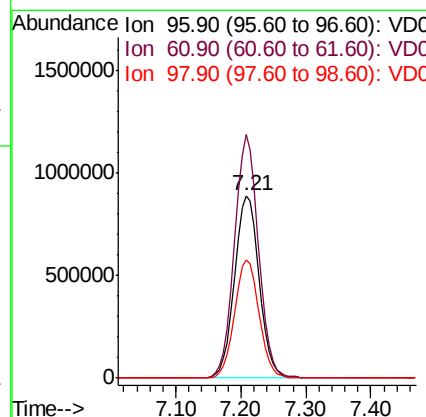
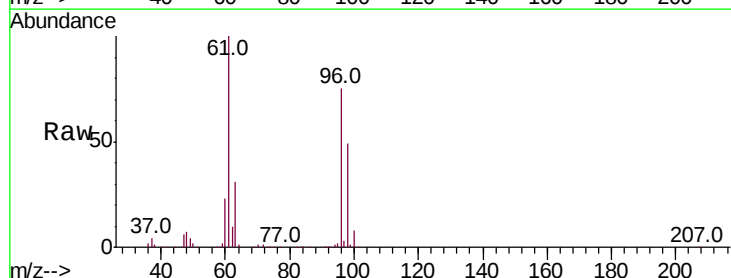
Instrument :
MSVOA_D
ClientSampled :

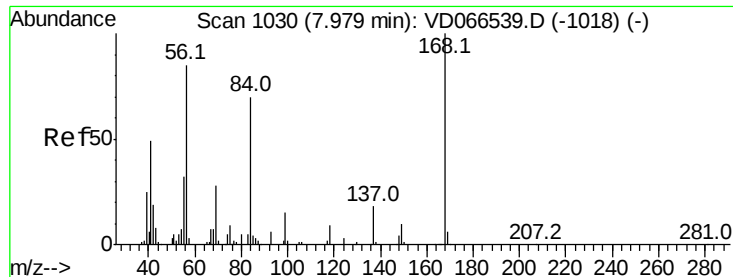
Tot Ion: 96 Resp: 33023
Ion Ratio Lower Upper
96 100
61 143.8 112.1 168.1
98 66.8 48.6 72.8



#27
cis-1,2-Dichloroethene
Concen: 475.002 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Tgt Ion: 96 Resp: 2343532
Ion Ratio Lower Upper
96 100
61 129.6 0.0 301.0
98 64.6 0.0 129.8

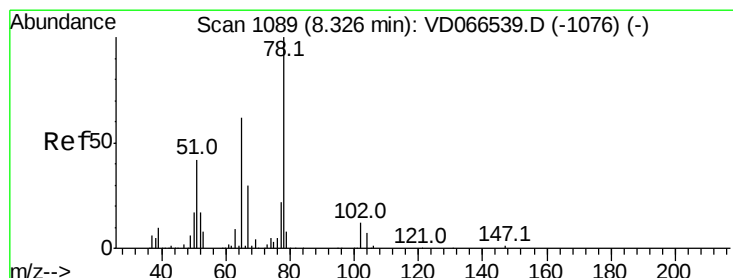
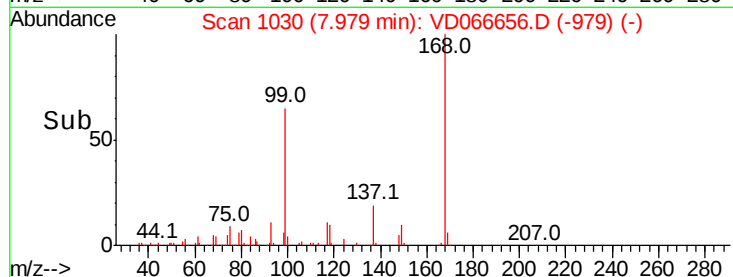
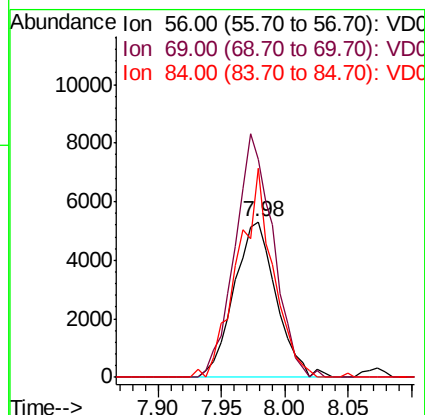
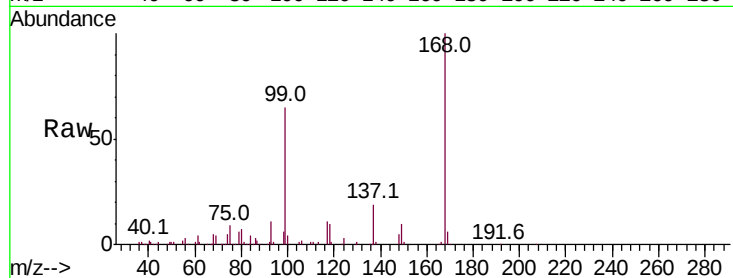




#31
Cyclohexane
Concen: 1.621 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

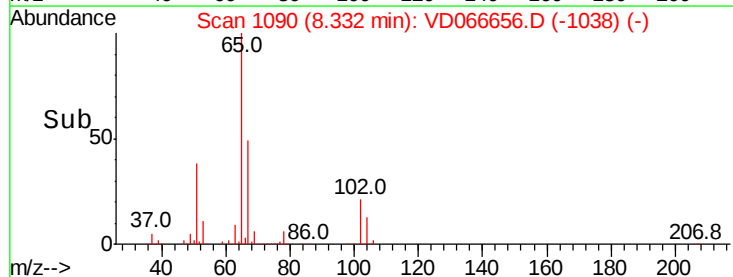
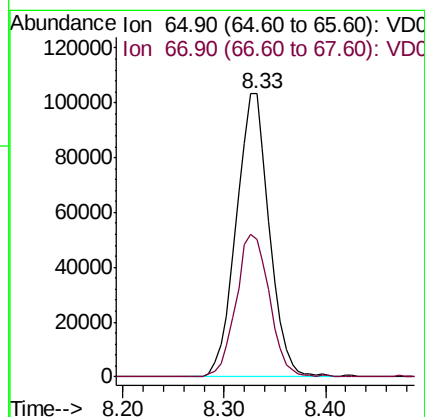
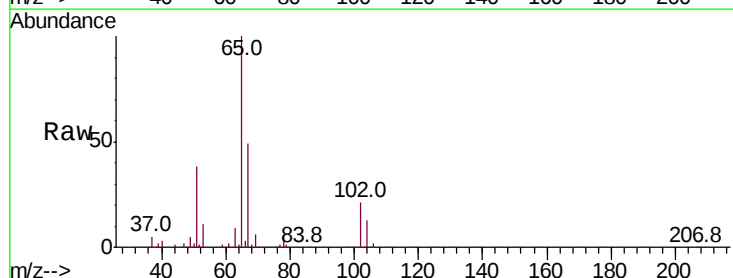
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MSVOA_D
ClientSampleId :

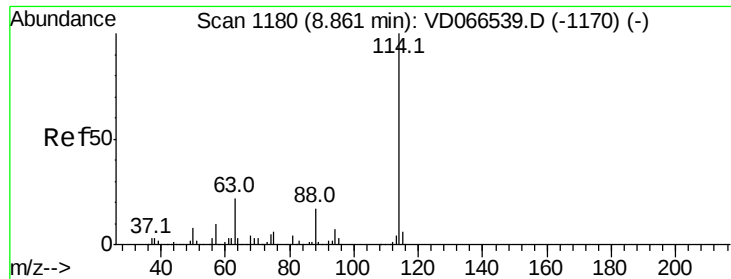
Tot Ion: 56 Resp: 12266
Ion Ratio Lower Upper
56 100
69 140.3 26.3 39.5#
84 133.9 66.1 99.1#



#33
1,2-Dichloroethane-d4
Concen: 50.275 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Tgt Ion: 65 Resp: 233260
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.8

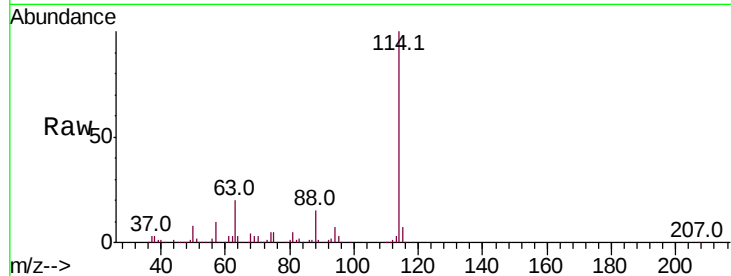




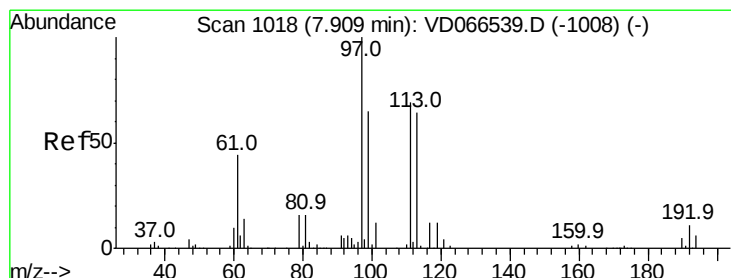
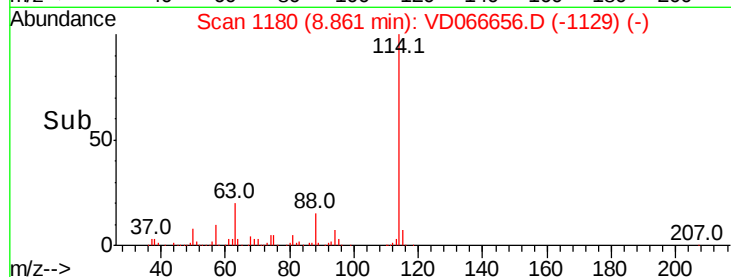
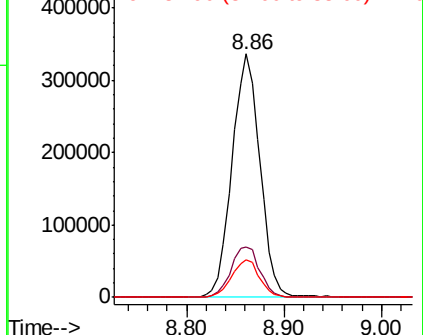
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.86 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 670054
Ion Ratio Lower Upper
114 100
63 20.4 0.0 43.2
88 15.4 0.0 33.2

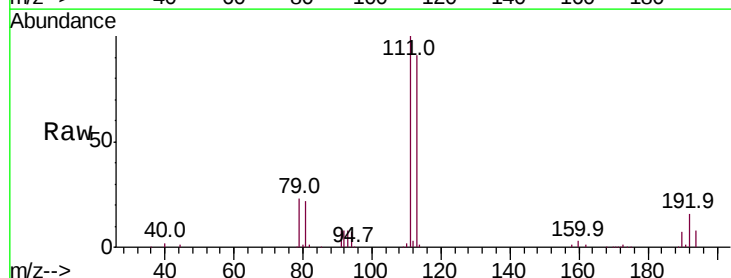


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

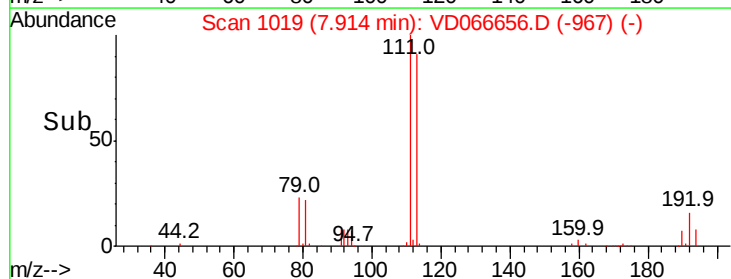
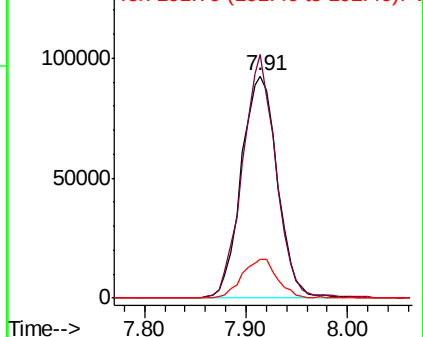


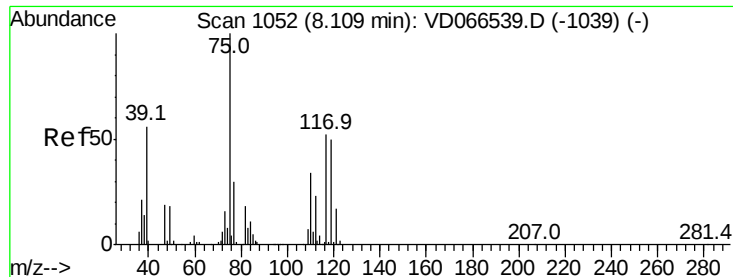
#35
Dibromofluoromethane
Concen: 50.660 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Tgt Ion:113 Resp: 228996
Ion Ratio Lower Upper
113 100
111 101.0 83.2 124.8
192 17.1 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: 5.057 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Instrument :

MSVOA_D

ClientSampleId :

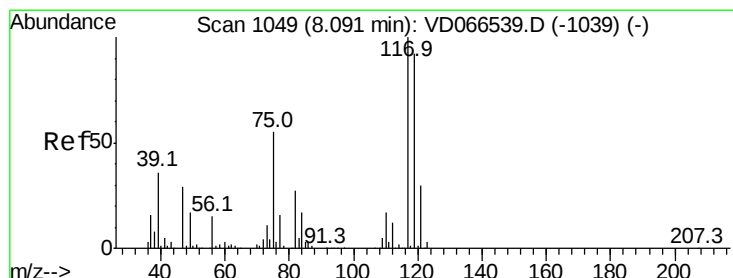
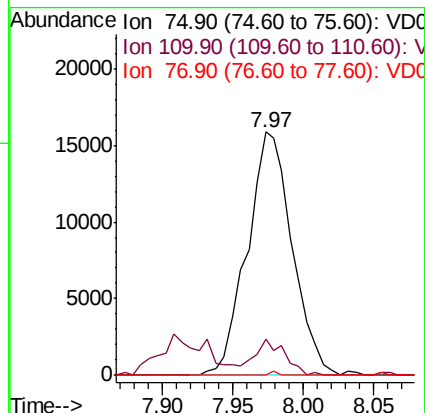
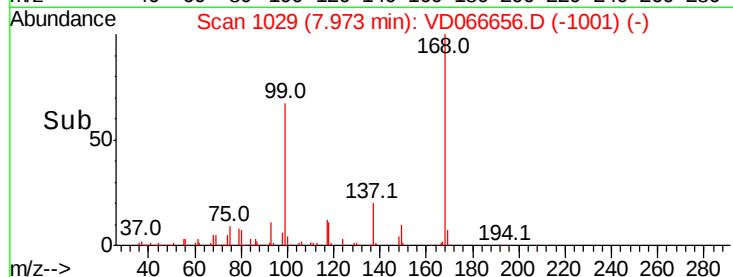
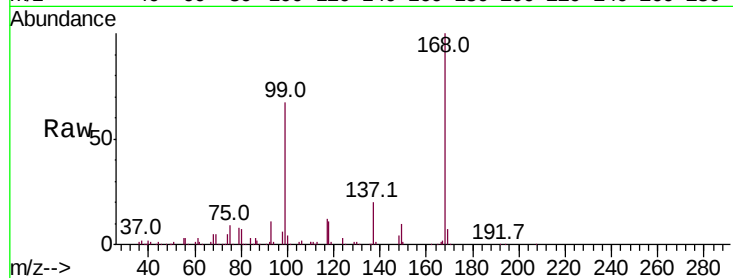
Tot Ion: 75 Resp: 35267

Ion Ratio Lower Upper

75 100

110 10.0 17.3 52.0#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.013 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

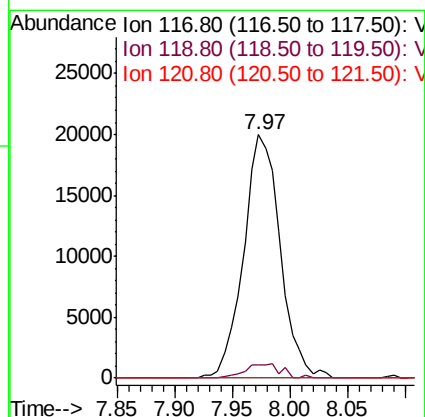
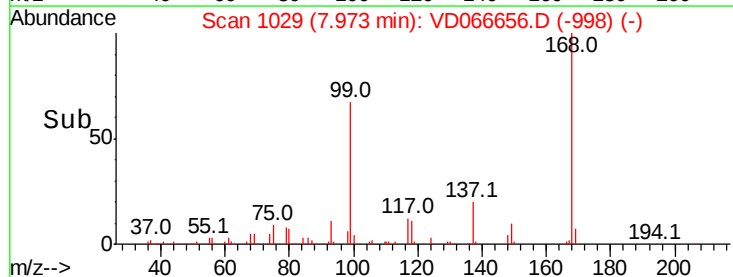
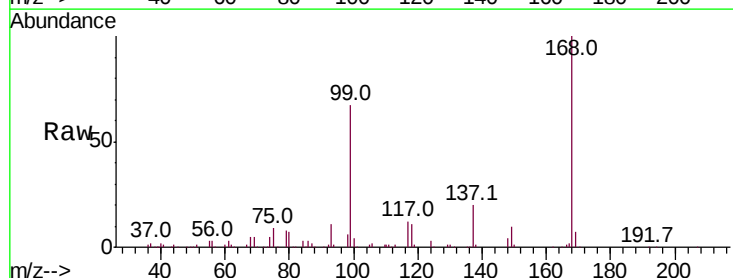
Tgt Ion: 117 Resp: 44323

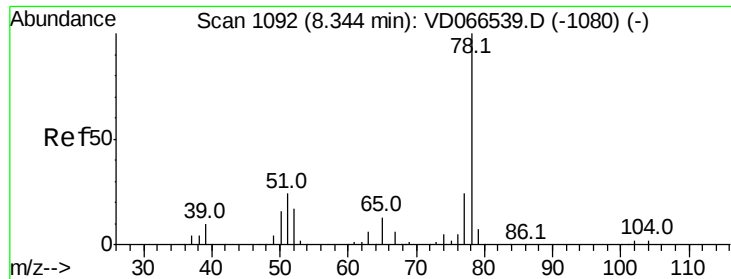
Ion Ratio Lower Upper

117 100

119 5.2 73.9 110.9#

121 0.0 24.1 36.1#





#40

Benzene

Concen: 1.332 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

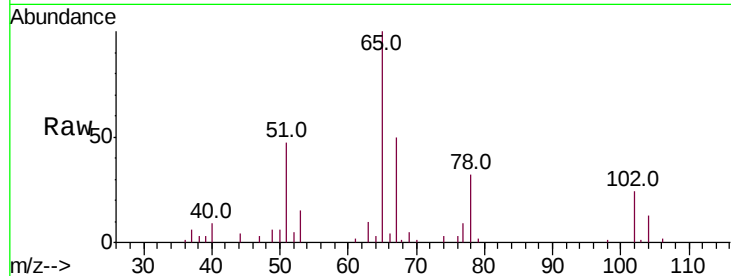
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 78 Resp: 25434

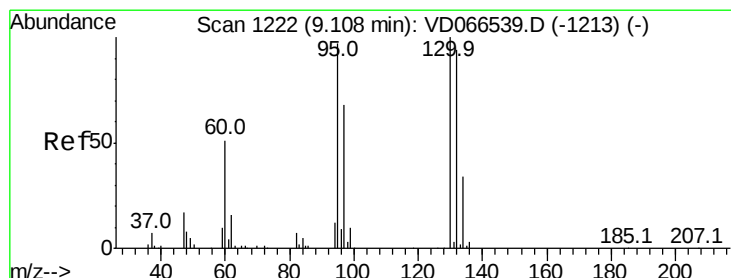
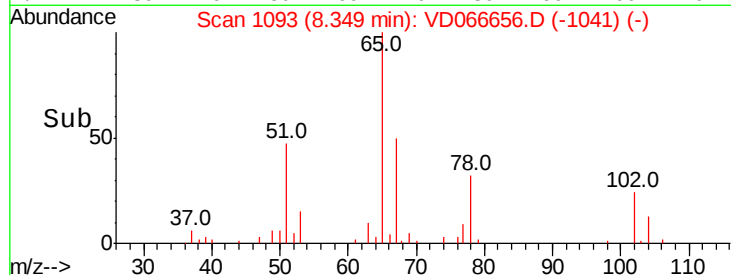
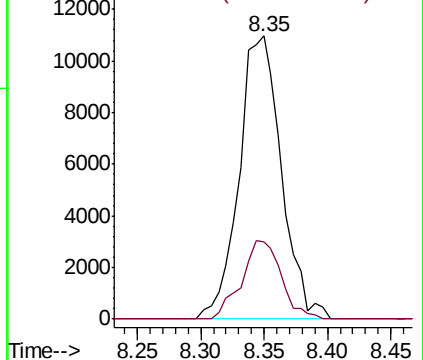
Ion Ratio Lower Upper

78 100

77 27.5 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC



#44

Trichloroethene

Concen: 152.426 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.00 min

Lab File: VD066656.D

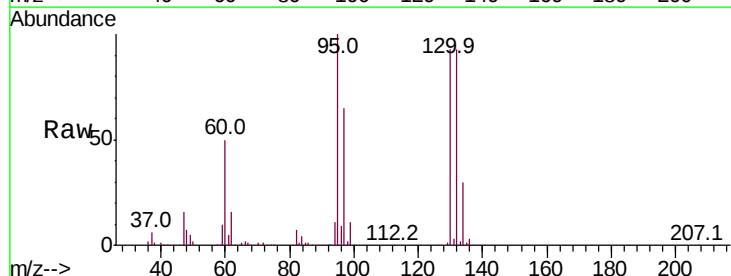
Acq: 11 Sep 2020 18:47

Tgt Ion:130 Resp: 763596

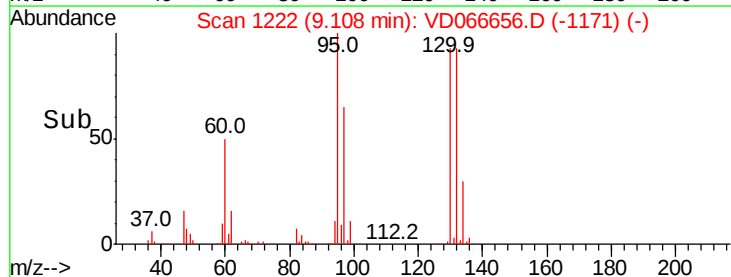
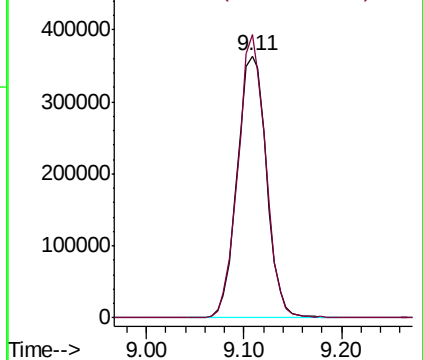
Ion Ratio Lower Upper

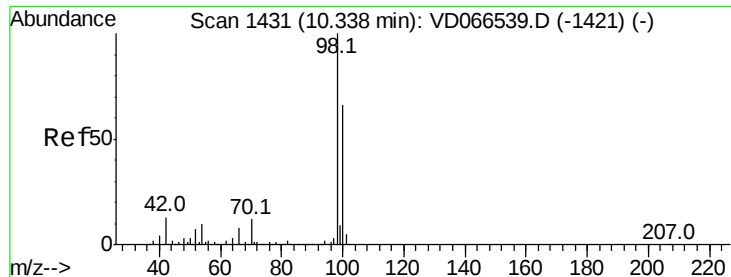
130 100

95 108.1 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC

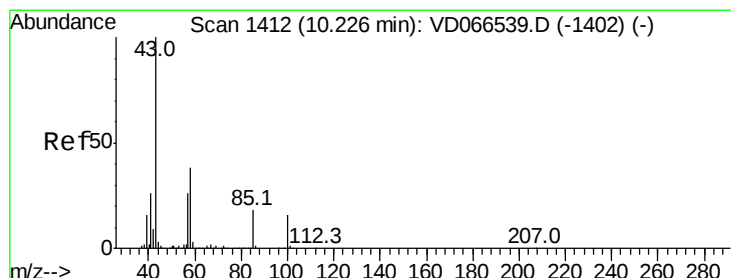
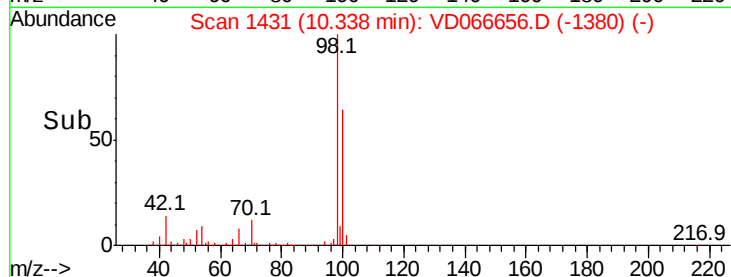
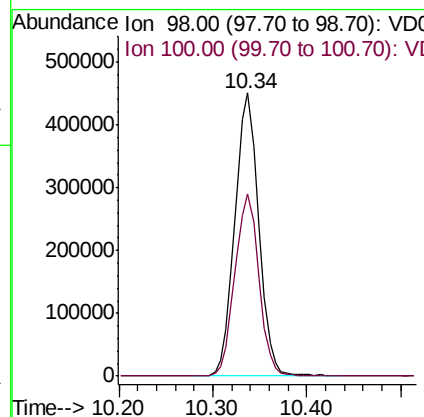
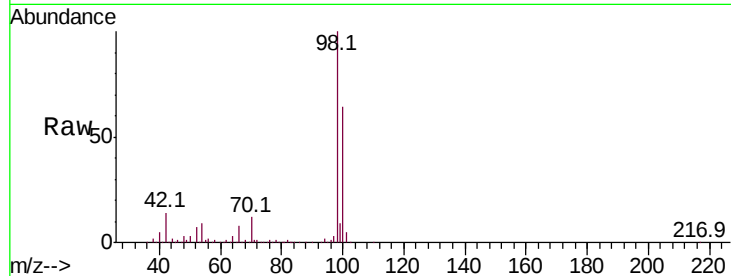




#50
Toluene-d8
Concen: 49.347 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

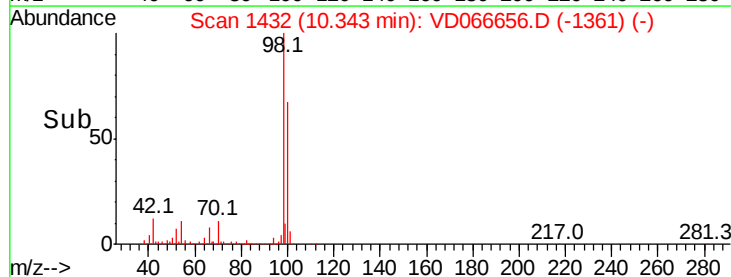
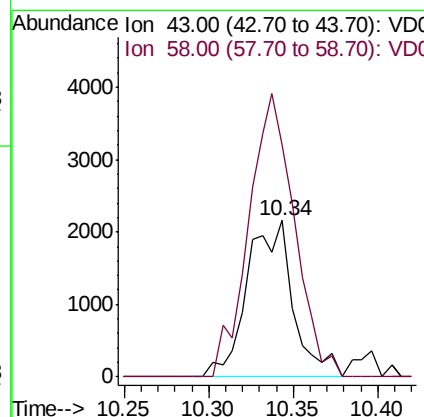
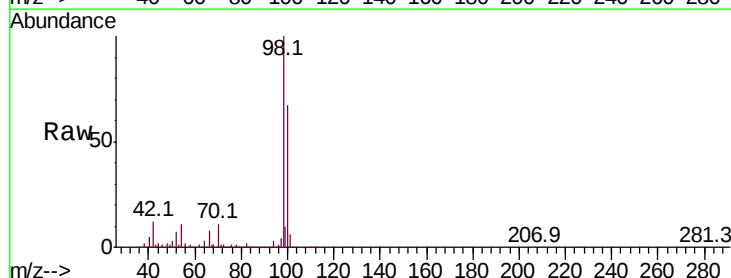
Instrument :
MSVOA_D
ClientSampleId :

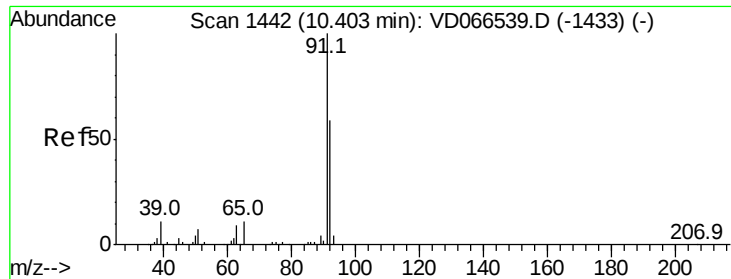
Tot Ion: 98 Resp: 797243
Ion Ratio Lower Upper
98 100
100 64.7 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.521 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.12 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Tgt Ion: 43 Resp: 4083
Ion Ratio Lower Upper
43 100
58 180.4 30.5 45.7#





#52

Toluene

Concen: 1.799 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Instrument :

MSVOA_D

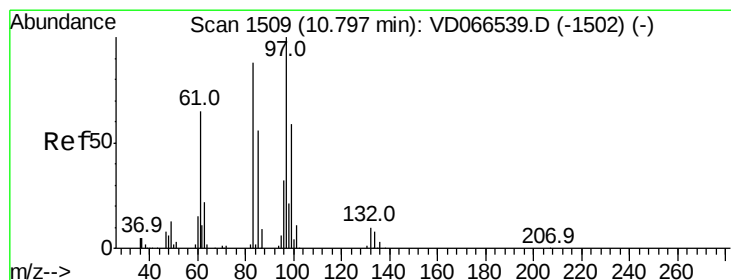
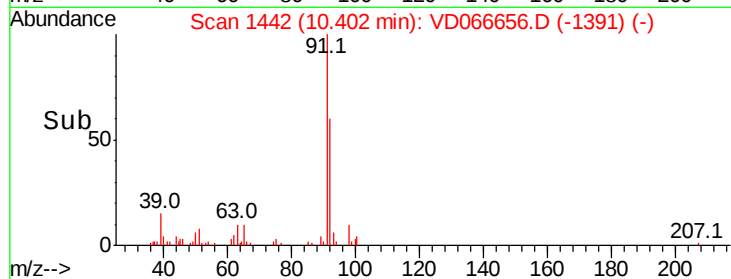
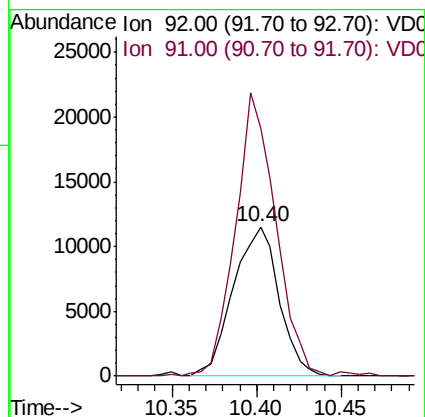
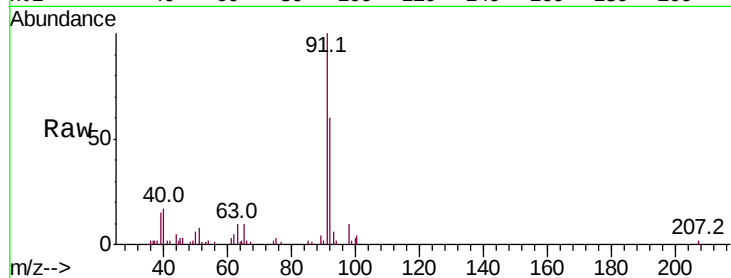
ClientSampled :

Tot Ion: 92 Resp: 21750

Ion Ratio Lower Upper

92 100

91 167.0 137.4 206.2



#55

1,1,2-Trichloroethane

Concen: 81.981 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. 0.08 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Tgt Ion: 97 Resp: 279305

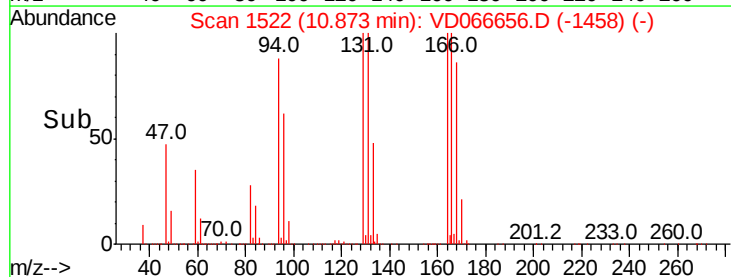
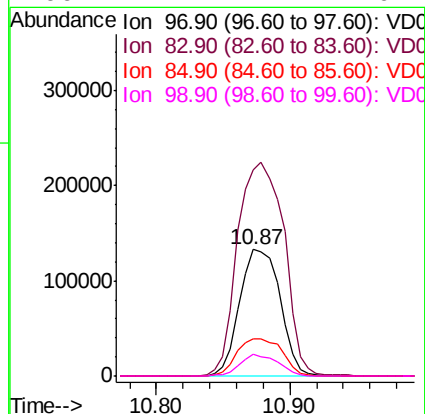
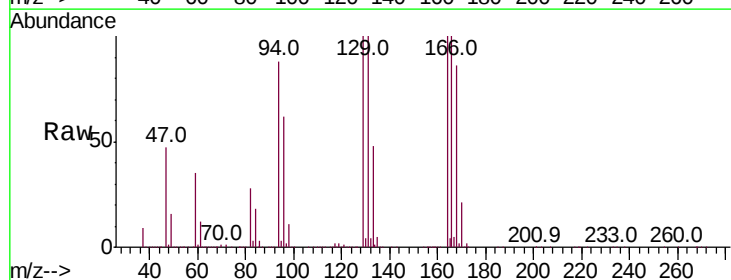
Ion Ratio Lower Upper

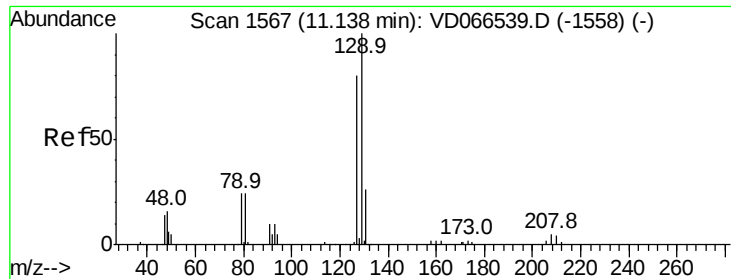
97 100

83 163.4 70.1 105.1#

85 29.8 44.5 66.7#

99 17.4 47.1 70.7#





#60

Dibromochloromethane

Concen: 4731.171 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.26 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Instrument :

MSVOA_D

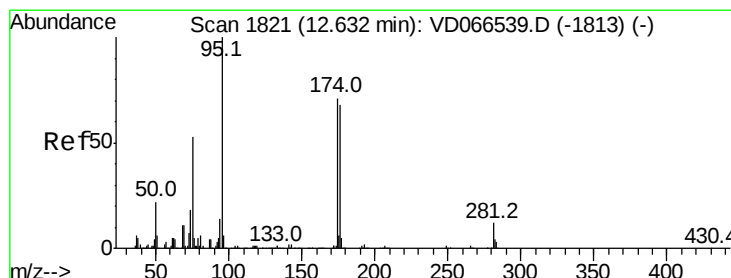
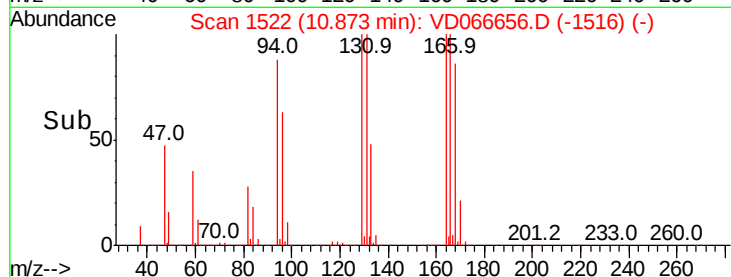
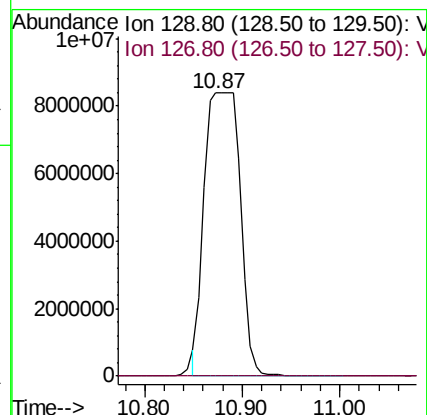
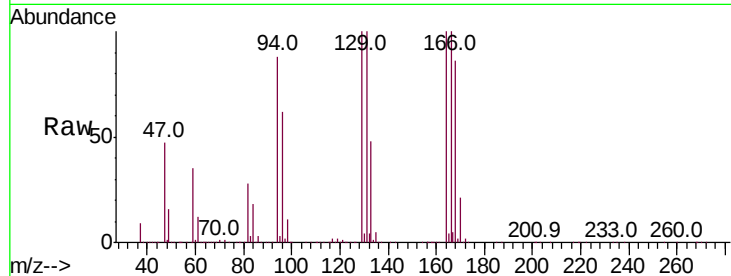
ClientSampled :

Tot Ion:129 Resp:21314921

Ion Ratio Lower Upper

129 100

127 0.0 39.5 118.3#



#62

4-Bromofluorobenzene

Concen: 44.445 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

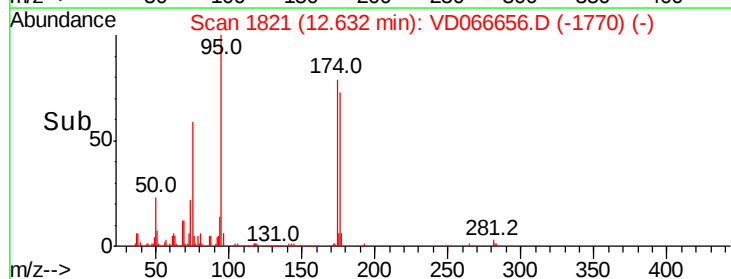
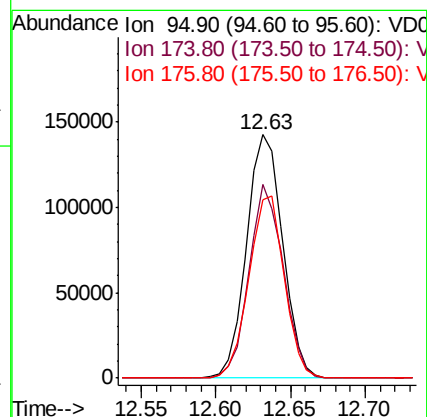
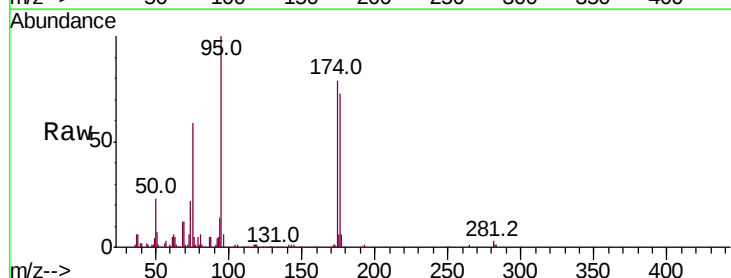
Tgt Ion: 95 Resp: 238100

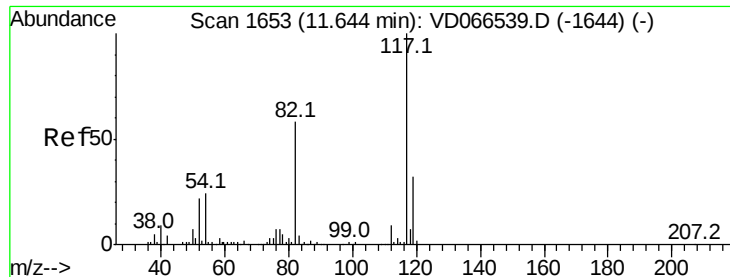
Ion Ratio Lower Upper

95 100

174 75.6 0.0 155.8

176 73.4 0.0 148.6

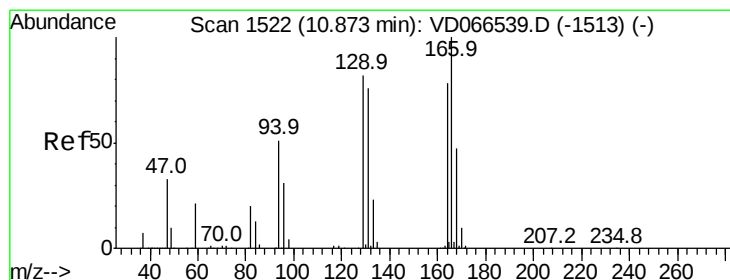
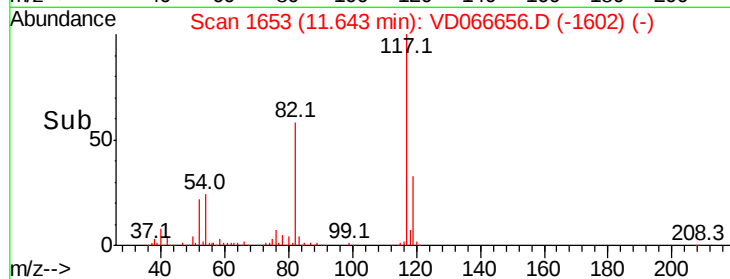
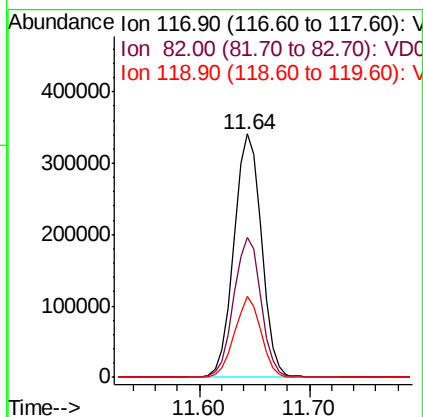
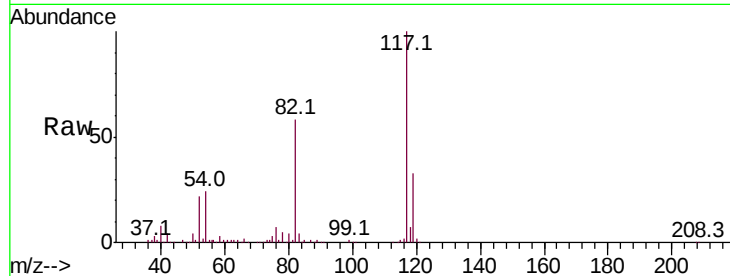




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

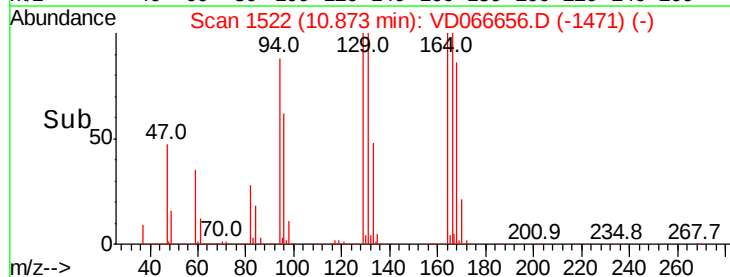
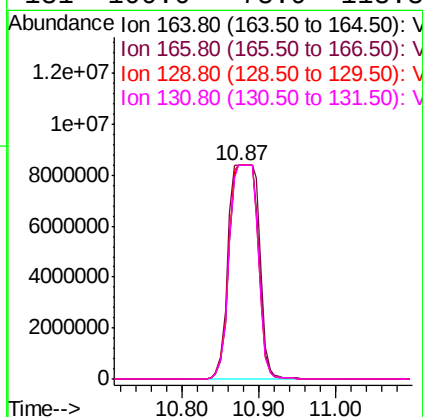
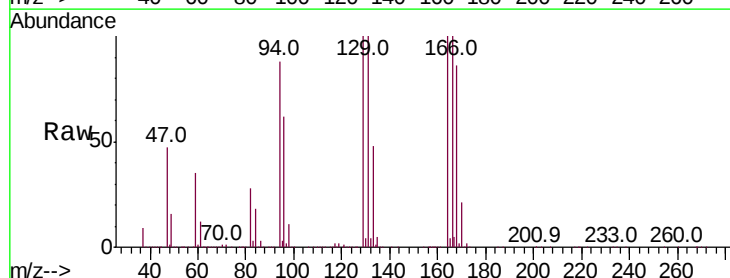
Instrument :
MSVOA_D
ClientSampleId :

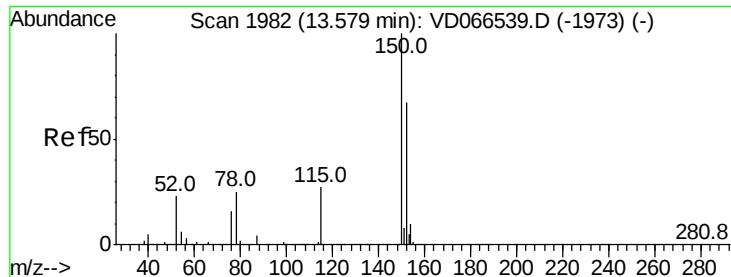
Tot Ion:117 Resp: 599080
Ion Ratio Lower Upper
117 100
82 57.6 46.2 69.2
119 33.2 25.8 38.8



#64
Tetrachloroethene
Concen: 5374.744 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Tgt Ion:164 Resp:21679715
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



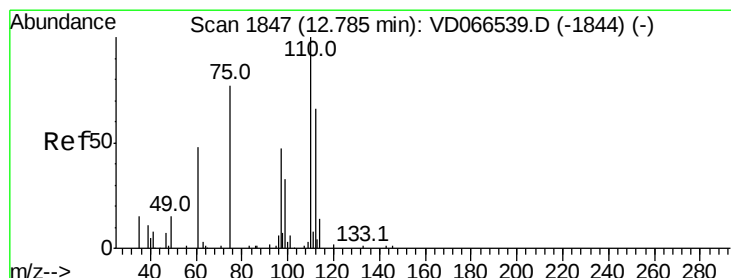
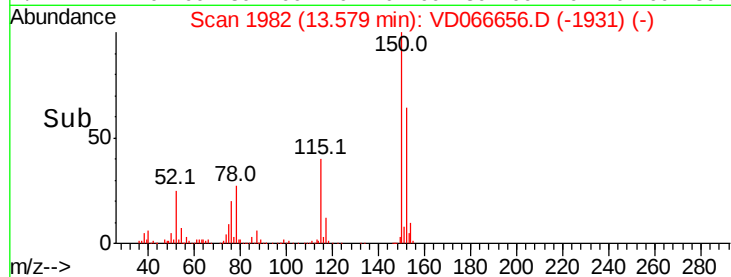
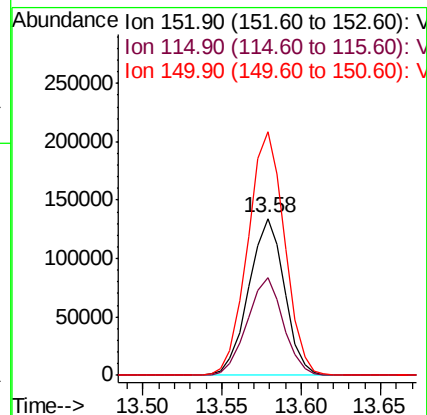
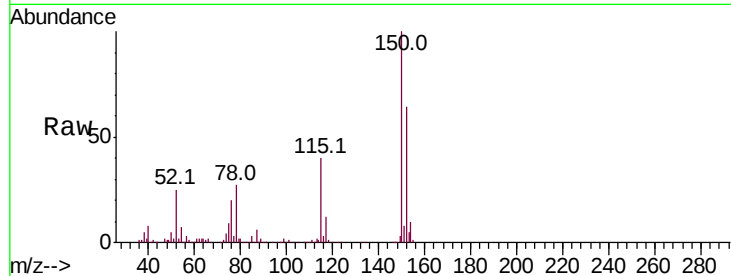


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Instrument :
MSVOA_D
ClientSampled :

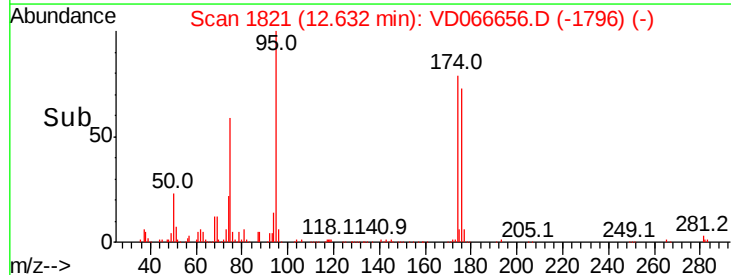
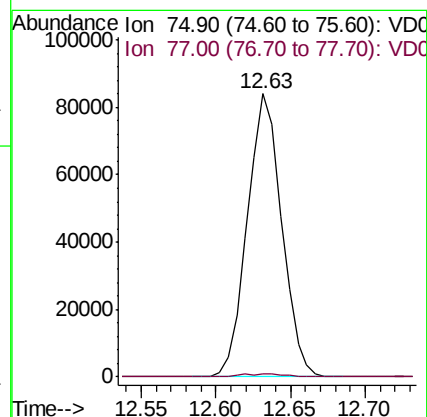
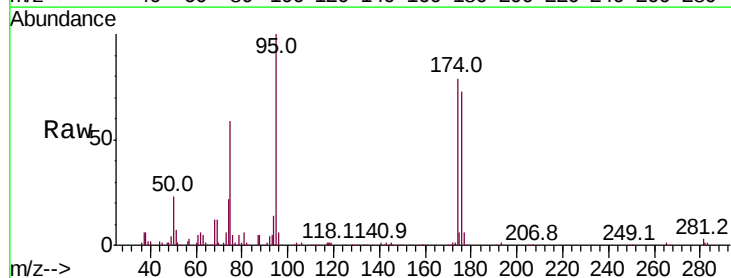
Tot Ion:152 Resp: 210878
Ion Ratio Lower Upper
152 100
115 62.6 30.4 91.2
150 160.1 0.0 345.8

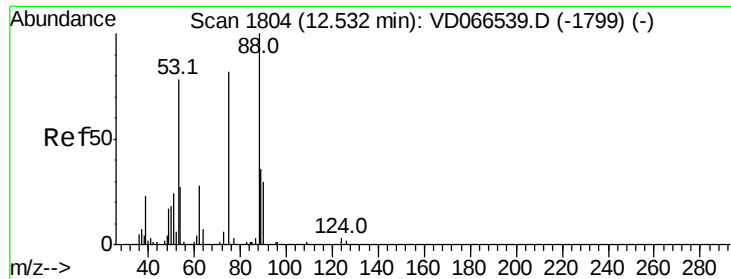


#76

1,2,3-Trichloropropane
Concen: 65.972 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.15 min
Lab File: VD066656.D
Acq: 11 Sep 2020 18:47

Tgt Ion: 75 Resp: 133797
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 154.022 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066656.D

Acq: 11 Sep 2020 18:47

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 133797

Ion Ratio Lower Upper

75 100

53 0.1 87.0 130.4#

89 0.0 37.1 55.7#

