

Data File : VD067765.D
Acq On : 24 Nov 2020 13:25
Operator : VA/SY
Sample : L4840-01
Misc : 4.23G/5.00ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
30739

Quant Time: Nov 25 02:04:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 24 00:51:35 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	209302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	333585	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	378187	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	217671	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	108129	53.13	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	106.26%
35) Dibromofluoromethane	7.92	113	106061	49.96	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.92%
50) Toluene-d8	10.34	98	392330	50.55	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	101.10%
62) 4-Bromofluorobenzene	12.64	95	178751	67.38	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	134.76%

Target Compounds

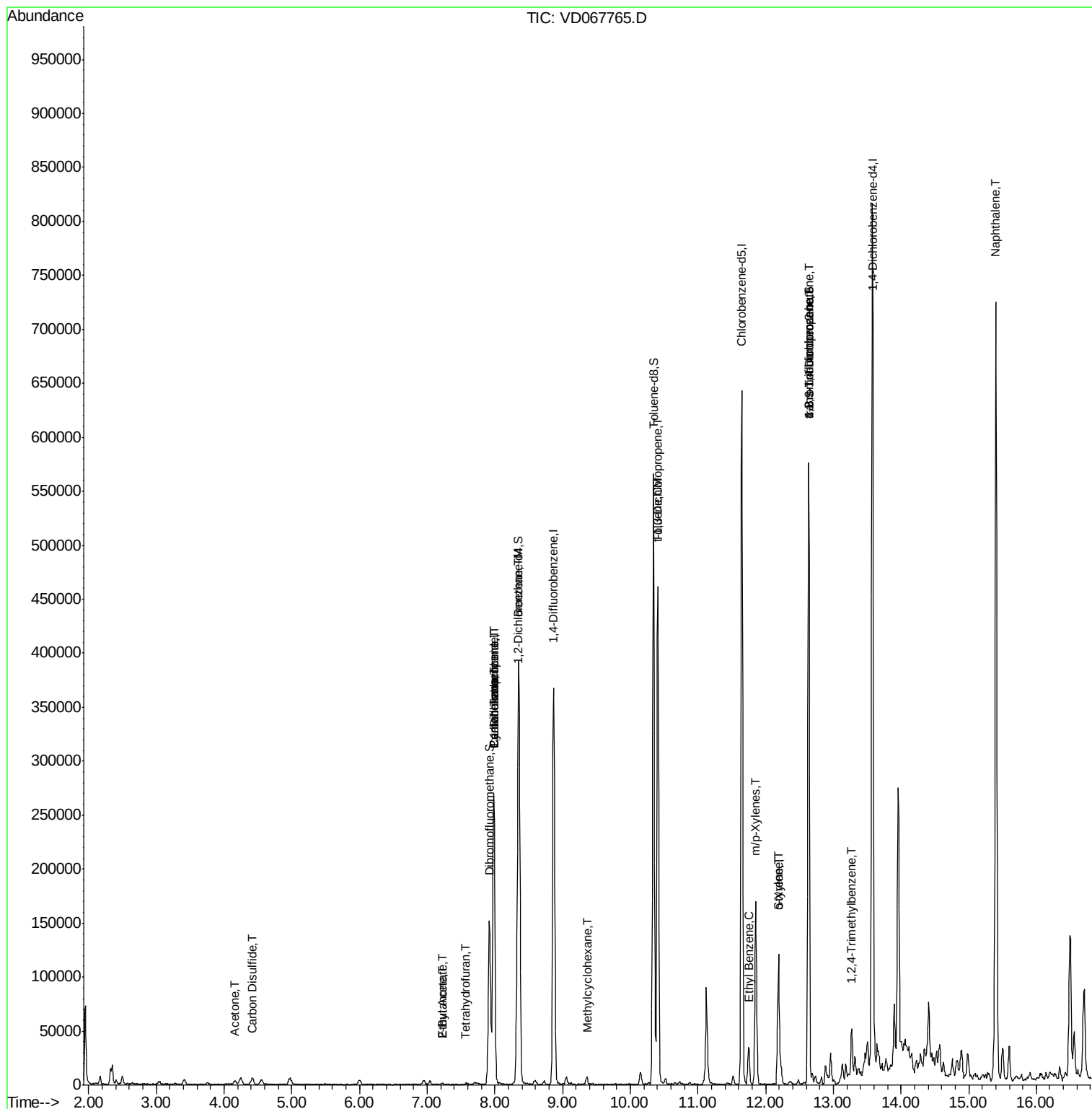
					Qvalue	
11) Tert butyl alcohol	5.23	59	181	Below Cal	#	87
16) Acetone	4.16	43	6369	24.225	ug/l #	82
17) Carbon Disulfide	4.41	76	14239	2.865	ug/l #	89
20) Methylene Chloride	4.98	84	5126	Below Cal	#	89
25) 2-Butanone	7.22	43	1243	4.213	ug/l #	37
29) Tetrahydrofuran	7.56	42	399	2.379	ug/l #	85
31) Cyclohexane	7.98	56	6081	2.470	ug/l #	70
36) 1,1-Dichloropropene	7.98	75	13965	4.879	ug/l #	51
37) Ethyl Acetate	7.22	43	1243	1.615	ug/l #	76
38) Carbon Tetrachloride	7.98	117	21323	5.139	ug/l #	18
39) Methylcyclohexane	9.37	83	3430	1.013	ug/l	92
40) Benzene	8.36	78	358931	45.655	ug/l	97
52) Toluene	10.41	92	207467	38.900	ug/l	100
53) t-1,3-Dichloropropene	10.40	75	3383	1.266	ug/l #	1
67) Ethyl Benzene	11.75	91	24051	1.874	ug/l	94
68) m/p-Xylenes	11.86	106	56132	11.241	ug/l	97
69) o-Xylene	12.18	106	23420	5.151	ug/l	99
70) Styrene	12.20	104	31149	4.022	ug/l	98
76) 1,2,3-Trichloropropane	12.64	75	95364	62.861	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	95364	147.027	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.27	105	27234	2.189	ug/l	98
95) Naphthalene	15.40	128	667341	97.433	ug/l	99

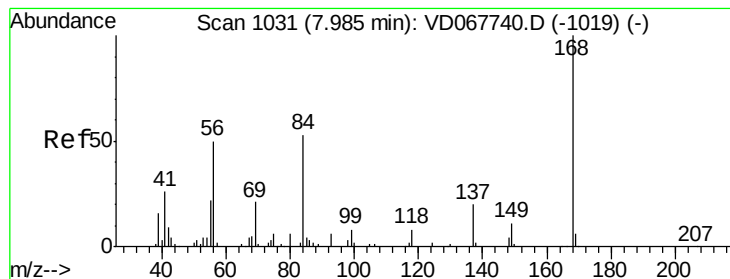
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VD067765.D
Acq On : 24 Nov 2020 13:25
Operator : VA/SY
Sample : L4840-01
Misc : 4.23G/5.00ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
30739

Quant Time: Nov 25 02:04:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 24 00:51:35 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: VD067765.D

Acq: 24 Nov 2020 13:25

Instrument :

MSVOA_D

ClientSampleId :

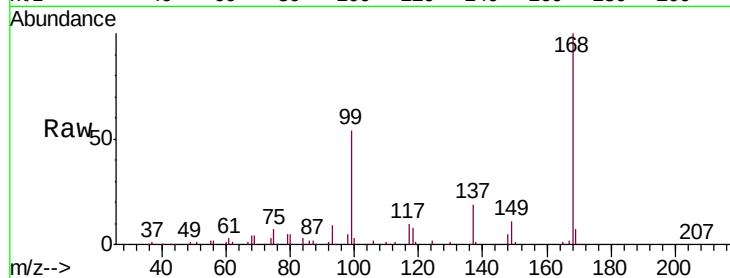
30739

Tgt Ion:168 Resp: 209302

Ion Ratio Lower Upper

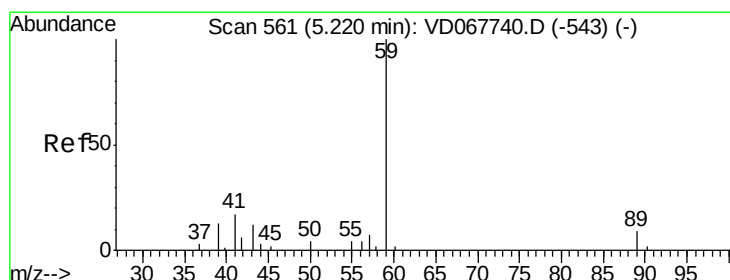
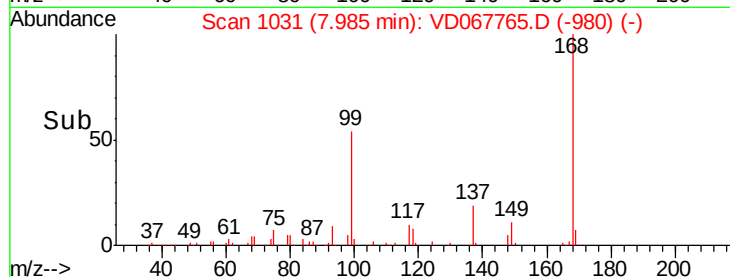
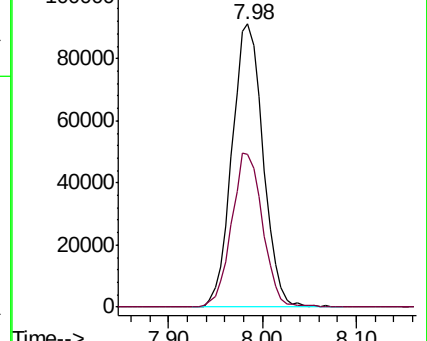
168 100

99 54.0 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. 0.01 min

Lab File: VD067765.D

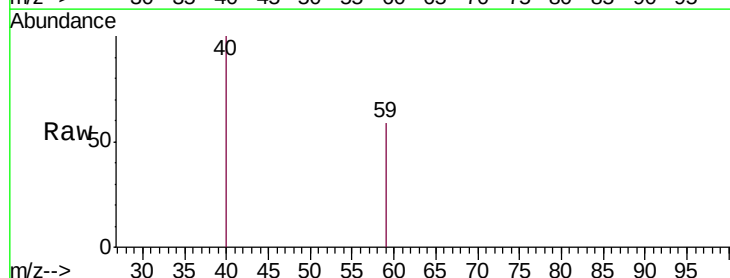
Acq: 24 Nov 2020 13:25

Tgt Ion: 59 Resp: 181

Ion Ratio Lower Upper

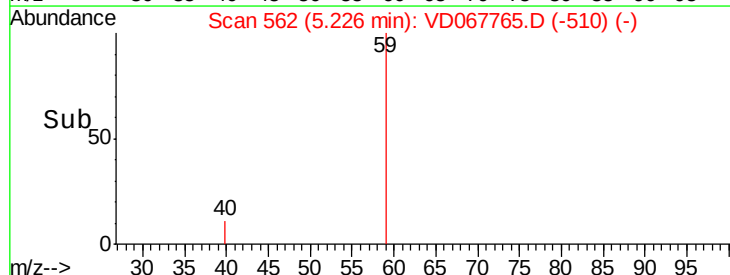
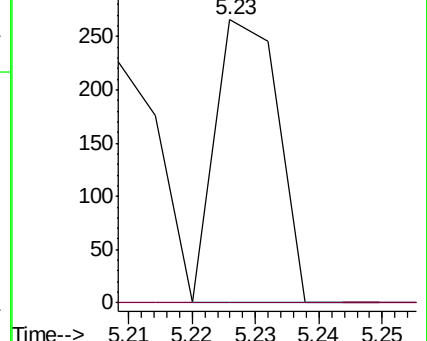
59 100

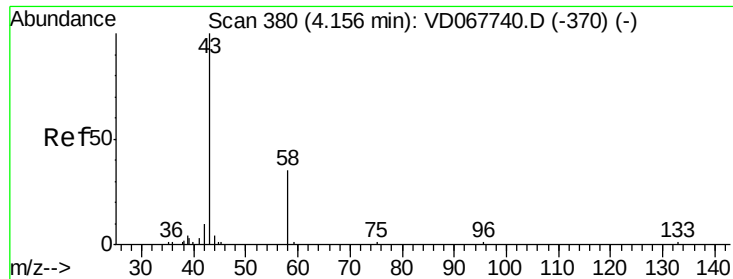
57 0.0 3.4 5.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 24.225 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067765.D

Acq: 24 Nov 2020 13:25

Instrument :

MSVOA_D

ClientSampleId :

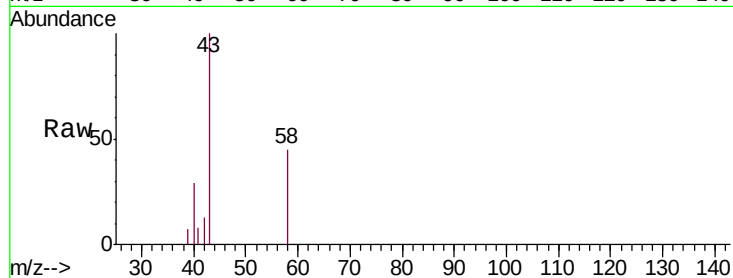
30739

Tgt Ion: 43 Resp: 6369

Ion Ratio Lower Upper

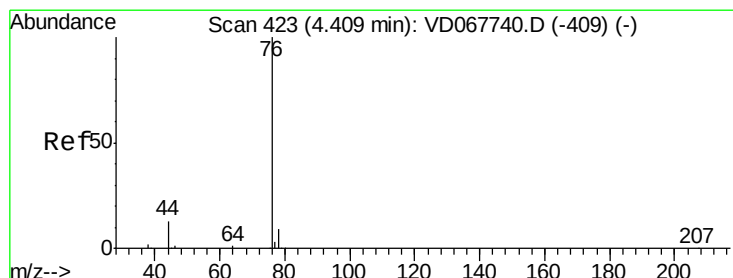
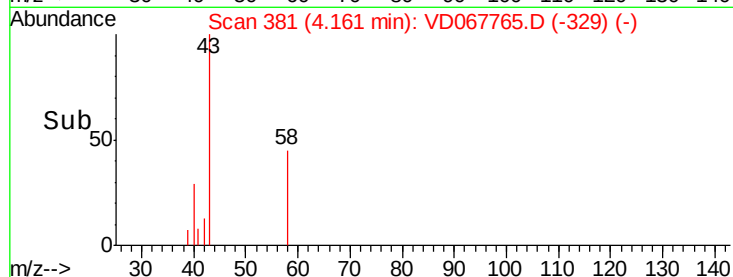
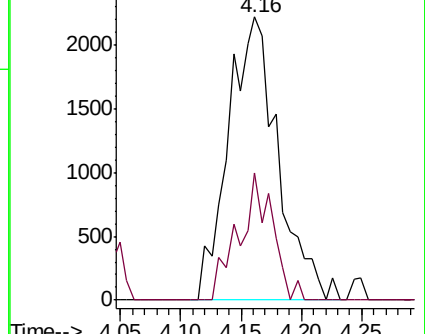
43 100

58 45.1 27.6 41.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 2.865 ug/l

RT: 4.41 min Scan# 424

Delta R.T. 0.01 min

Lab File: VD067765.D

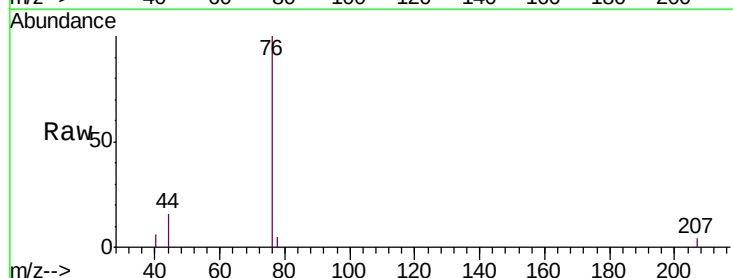
Acq: 24 Nov 2020 13:25

Tgt Ion: 76 Resp: 14239

Ion Ratio Lower Upper

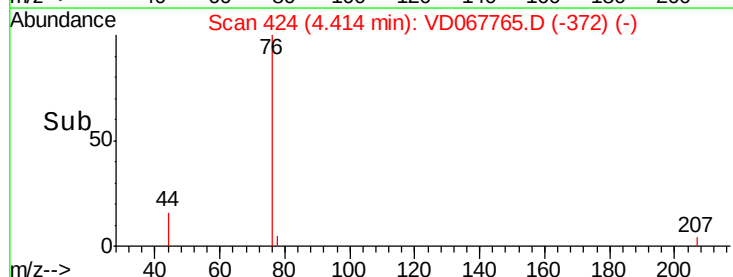
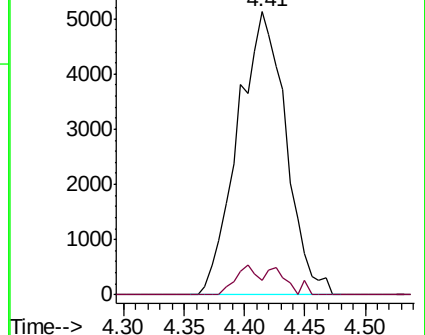
76 100

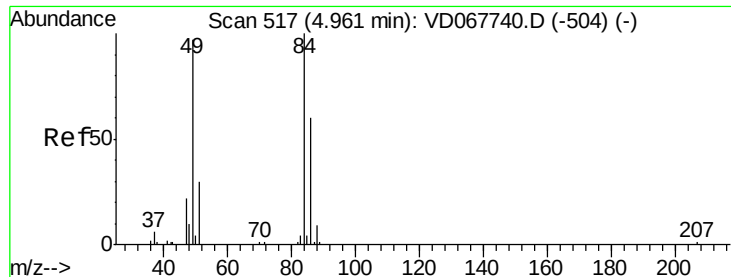
78 5.3 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

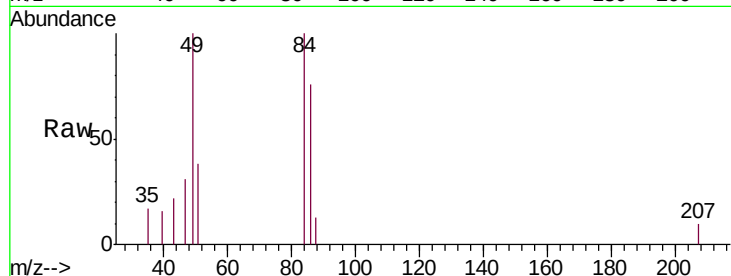




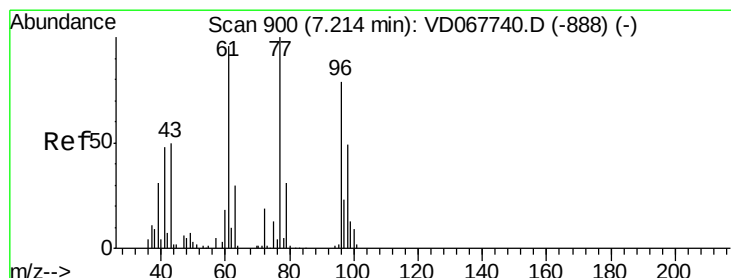
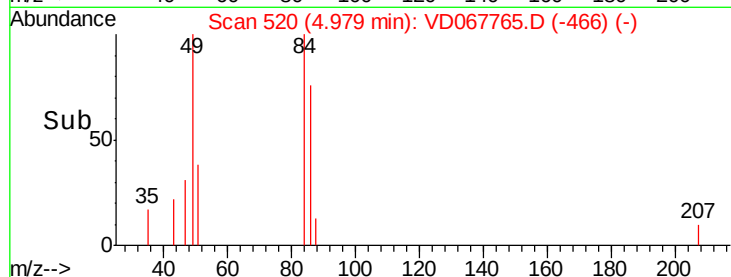
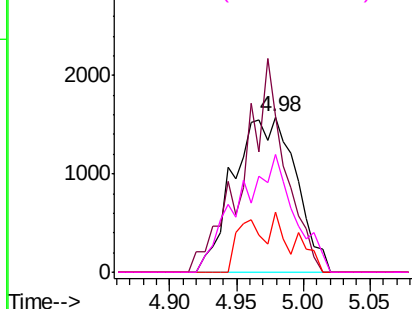
#20
Methylene Chloride
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Instrument :
MSVOA_D
ClientSampleId :
30739

Tgt Ion: 84 Resp: 5126
Ion Ratio Lower Upper
84 100
49 100.1 77.4 116.2
51 38.3 24.1 36.1#
86 75.8 48.2 72.2#

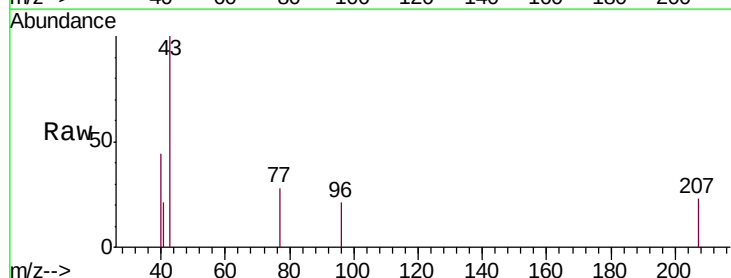


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

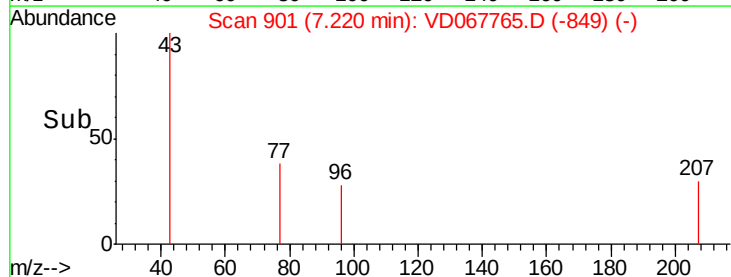
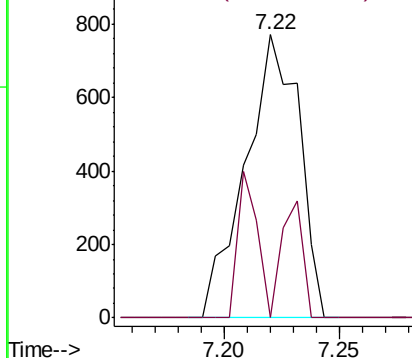


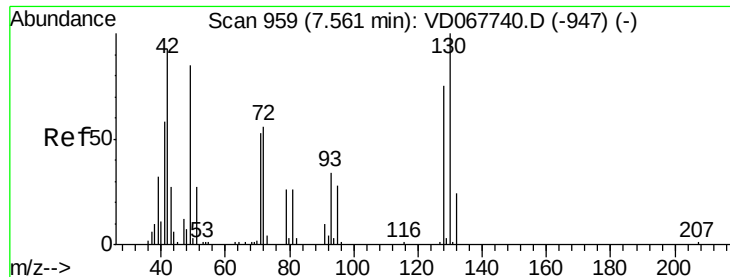
#25
2-Butanone
Concen: 4.213 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Tgt Ion: 43 Resp: 1243
Ion Ratio Lower Upper
43 100
72 0.0 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 2.379 ug/l

RT: 7.56 min Scan# 959

Delta R.T. -0.00 min

Lab File: VD067765.D

Acq: 24 Nov 2020 13:25

Instrument :

MSVOA_D

ClientSampleId :

30739

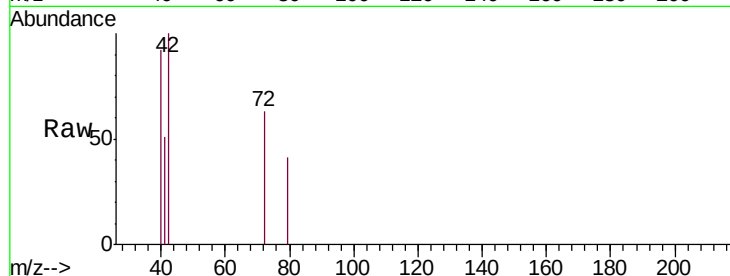
Tgt Ion: 42 Resp: 399

Ion Ratio Lower Upper

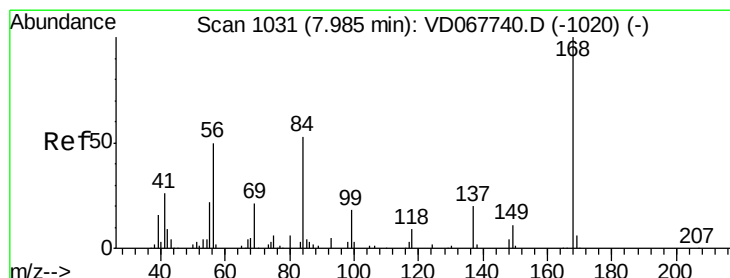
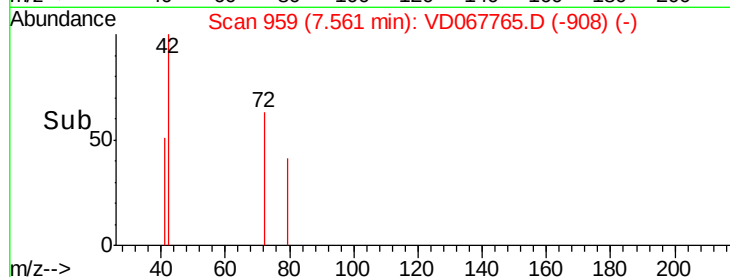
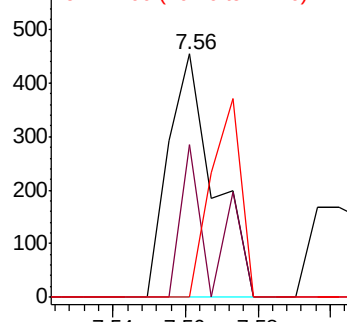
42 100

72 42.6 49.3 73.9#

71 53.6 45.9 68.9



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 2.470 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067765.D

Acq: 24 Nov 2020 13:25

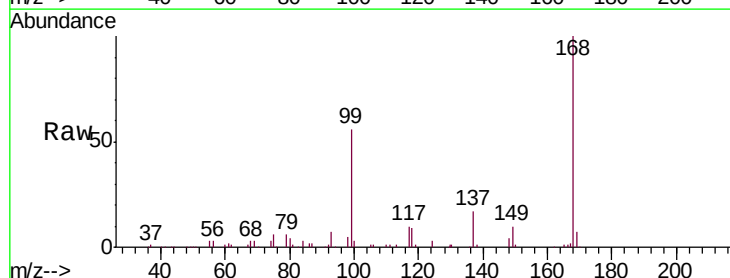
Tgt Ion: 56 Resp: 6081

Ion Ratio Lower Upper

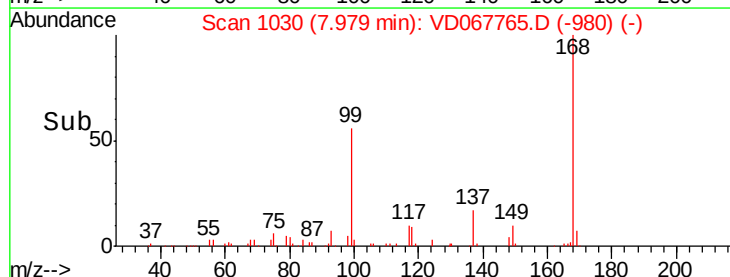
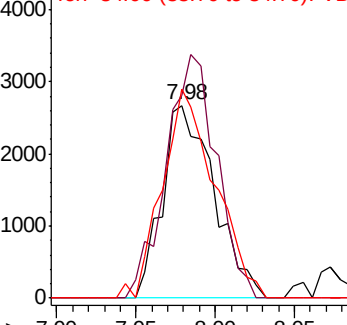
56 100

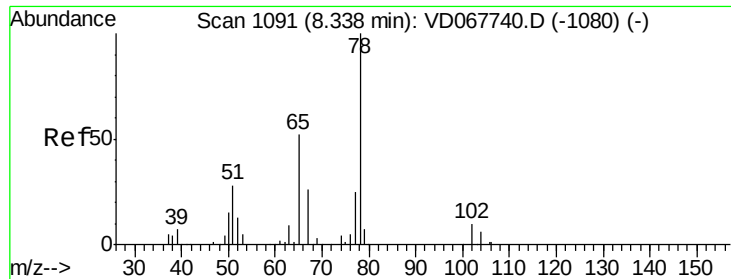
69 105.4 33.2 49.8#

84 108.3 84.8 127.2



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

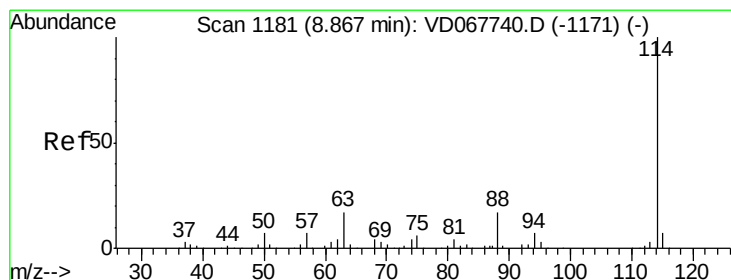
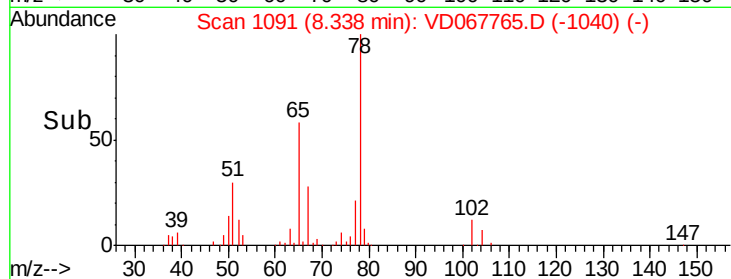
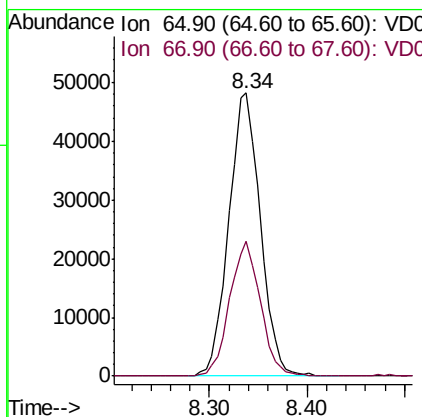
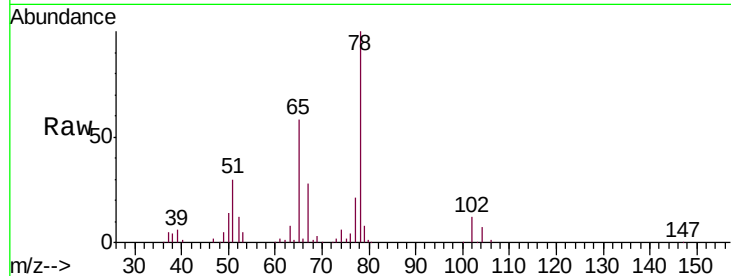




#33
 1,2-Dichloroethane-d4
 Concen: 53.133 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

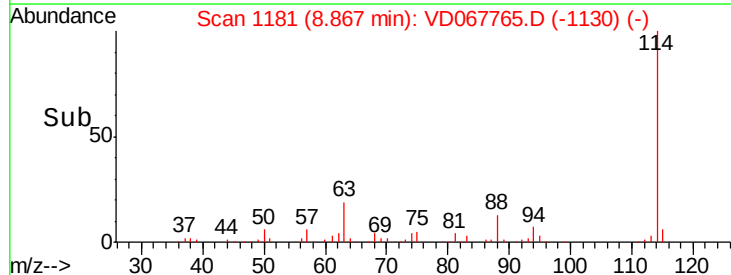
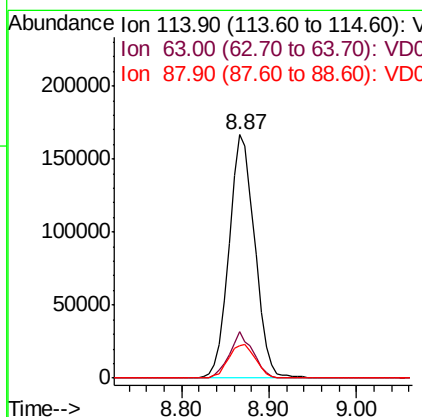
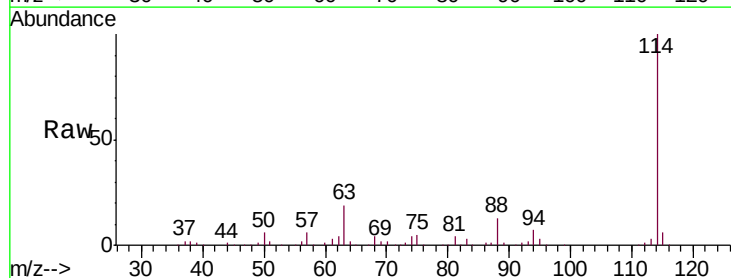
Instrument :
 MSVOA_D
 ClientSampled :
 30739

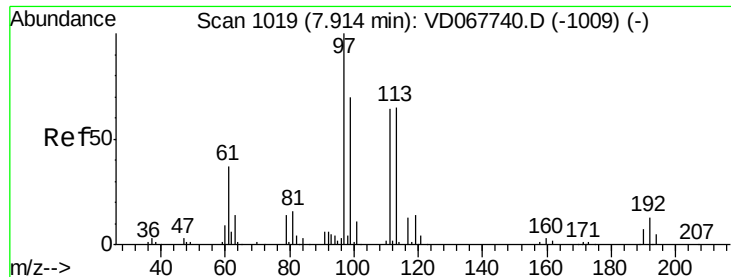
Tgt Ion: 65 Resp: 108129
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 101.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

Tgt Ion: 114 Resp: 333585
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 34.8
 88 13.2 0.0 34.4

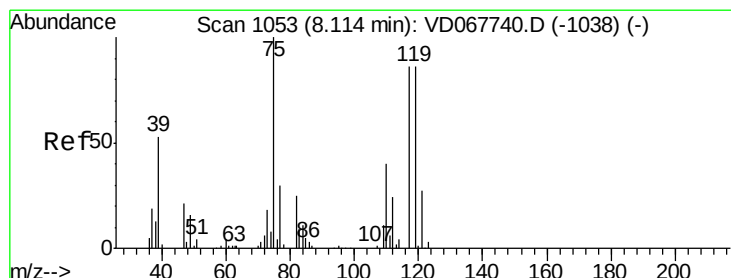
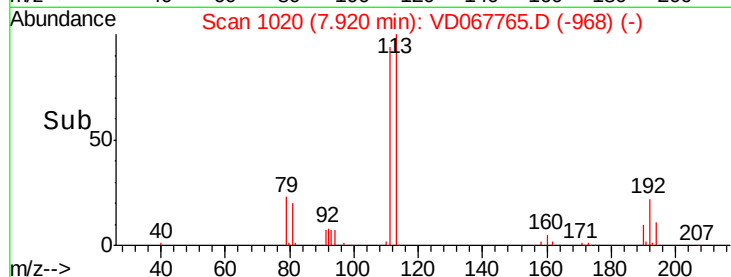
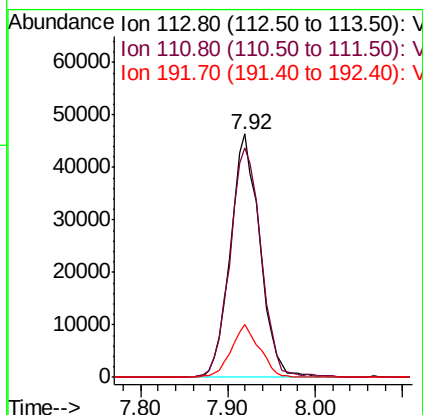
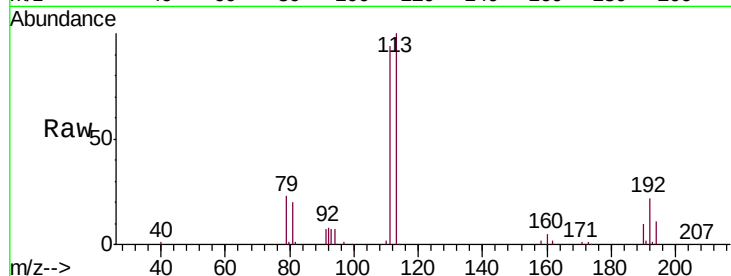




#35
 Dibromofluoromethane
 Concen: 49.960 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

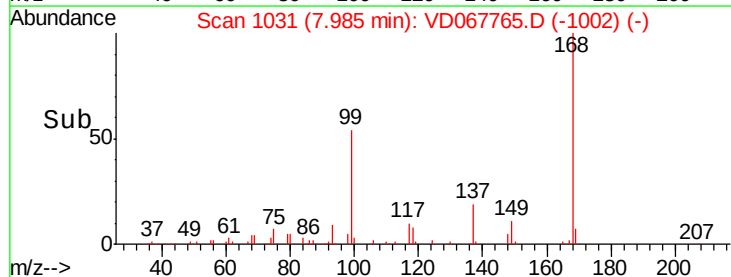
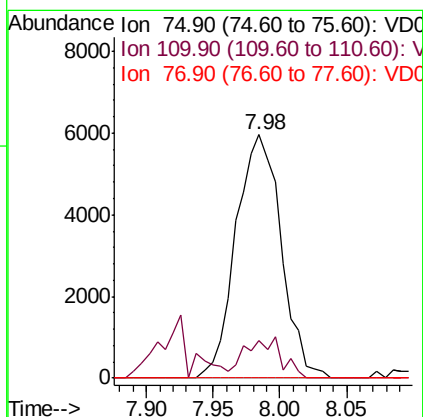
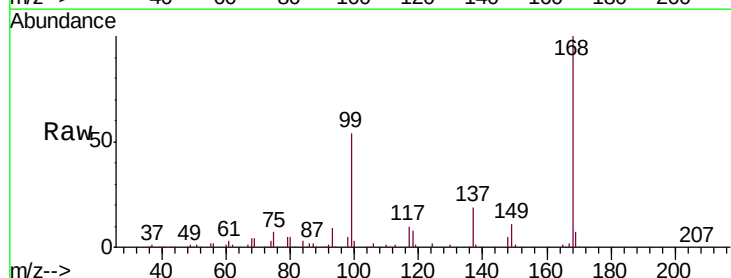
Instrument :
 MSVOA_D
 ClientSampleId :
 30739

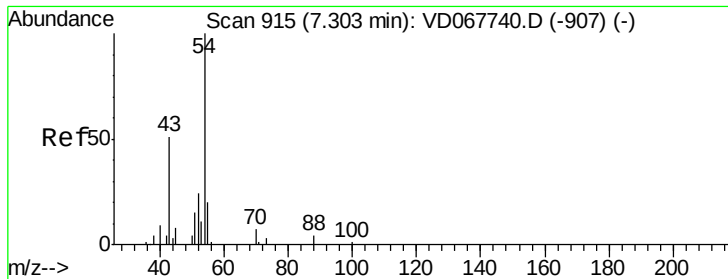
Tgt Ion: 113 Resp: 106061
 Ion Ratio Lower Upper
 113 100
 111 98.6 81.4 122.0
 192 20.7 17.0 25.4



#36
 1,1-Dichloropropene
 Concen: 4.879 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

Tgt Ion: 75 Resp: 13965
 Ion Ratio Lower Upper
 75 100
 110 13.4 20.1 60.2#
 77 0.0 24.8 37.2#

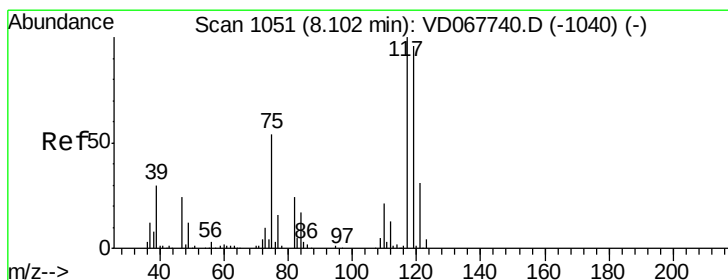
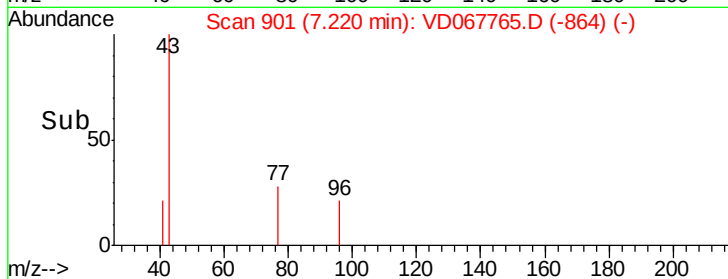
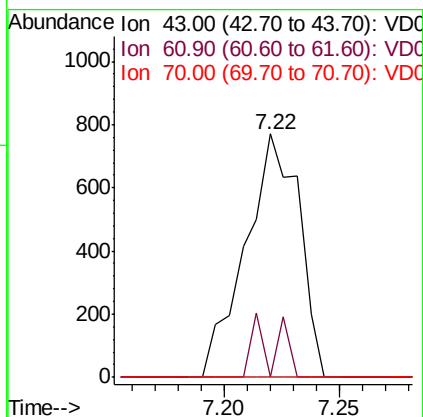
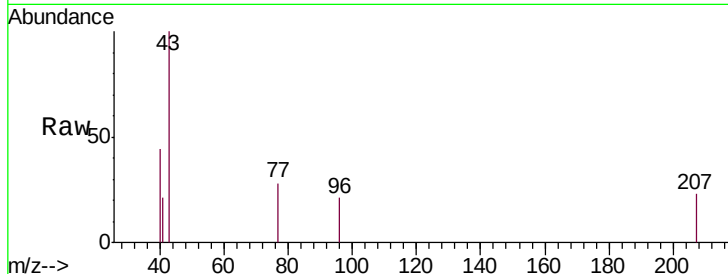




#37
Ethyl Acetate
Concen: 1.615 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.08 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

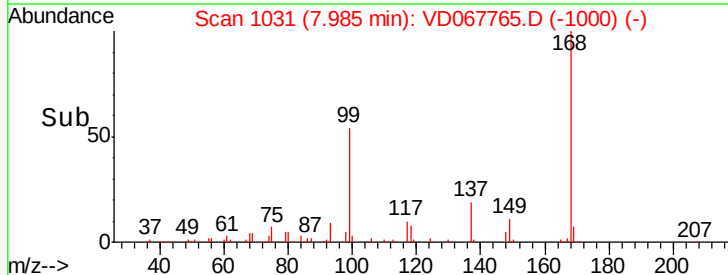
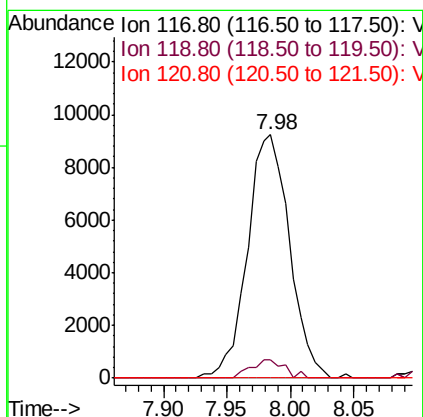
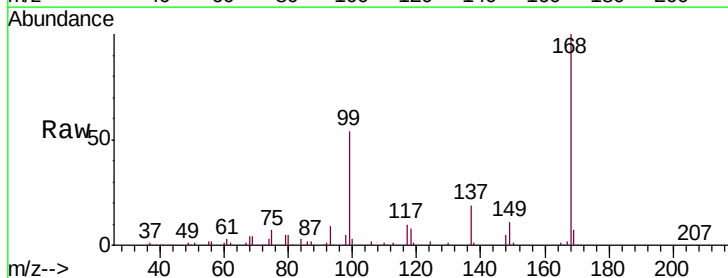
Instrument :
MSVOA_D
ClientSampled :
30739

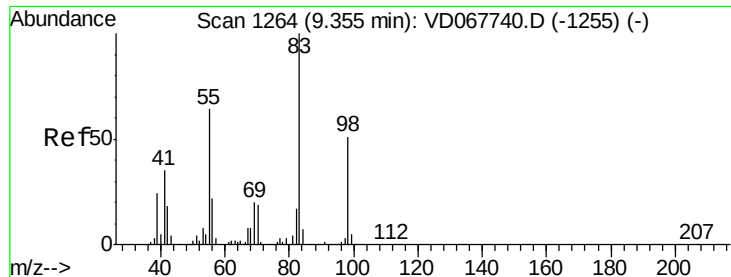
Tgt Ion: 43 Resp: 1243
Ion Ratio Lower Upper
43 100
61 11.3 12.9 19.3#
70 0.0 12.2 18.2#



#38
Carbon Tetrachloride
Concen: 5.139 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.12 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Tgt Ion: 117 Resp: 21323
Ion Ratio Lower Upper
117 100
119 7.6 76.6 115.0#
121 0.0 24.5 36.7#

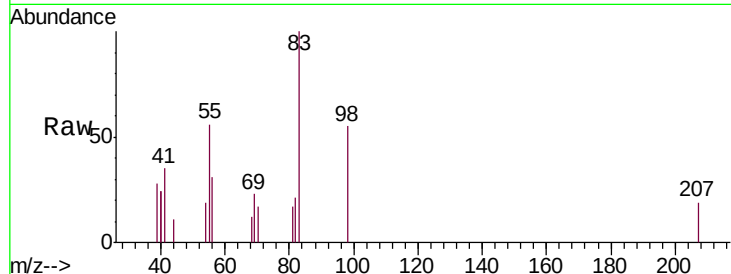




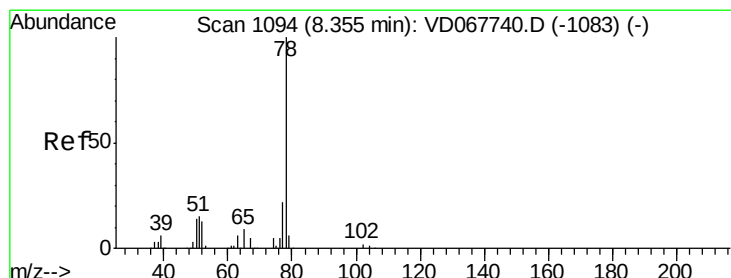
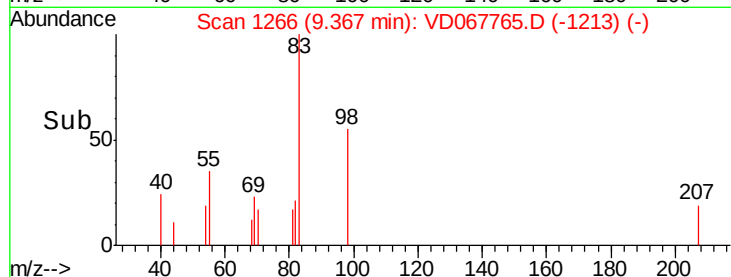
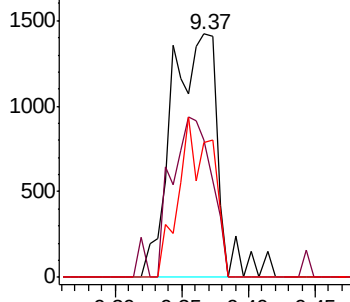
#39
Methylcyclohexane
Concen: 1.013 ug/l
RT: 9.37 min Scan# 1266
Delta R.T. 0.01 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Instrument :
MSVOA_D
ClientSampled :
30739

Tgt Ion: 83 Resp: 3430
Ion Ratio Lower Upper
83 100
55 56.4 51.0 76.4
98 55.2 40.4 60.6

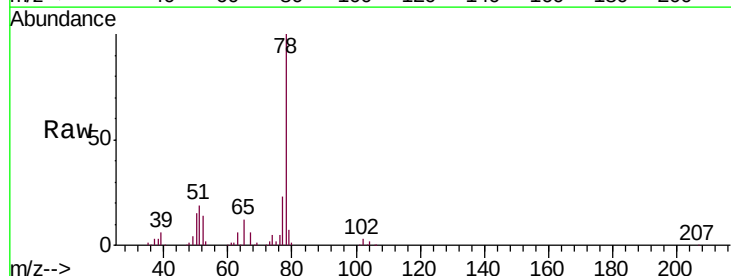


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

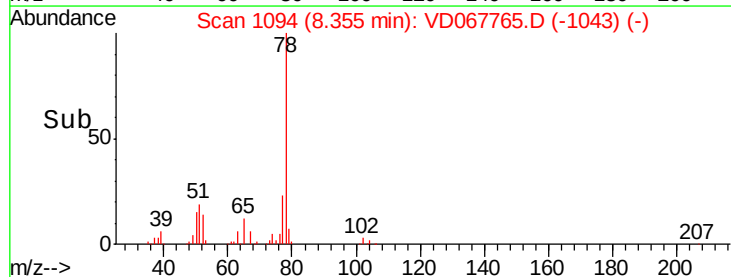
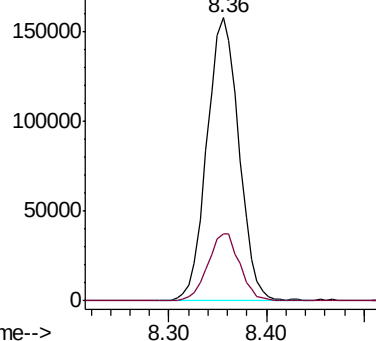


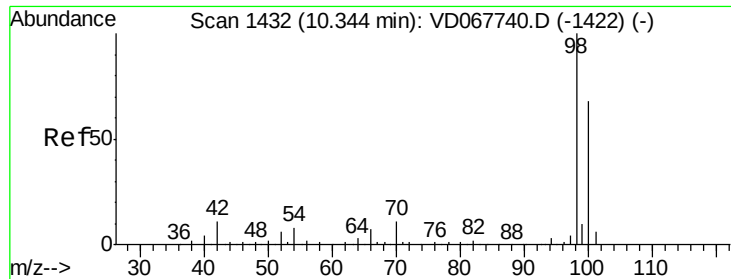
#40
Benzene
Concen: 45.655 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Tgt Ion: 78 Resp: 358931
Ion Ratio Lower Upper
78 100
77 23.5 17.8 26.6



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

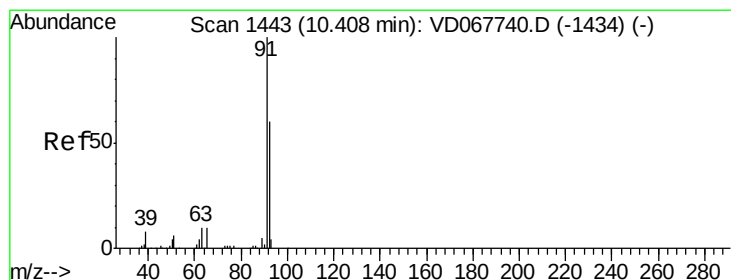
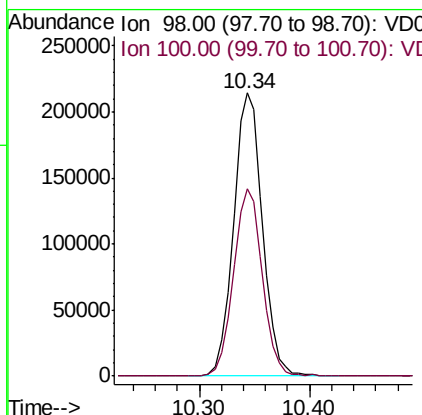
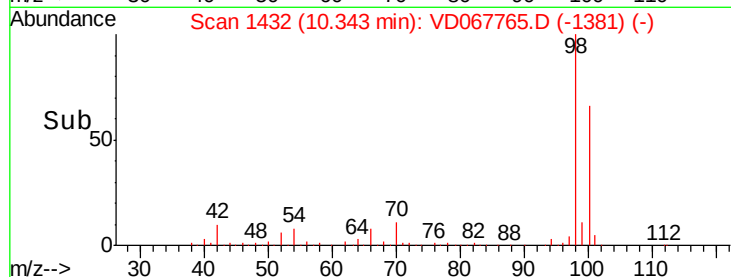
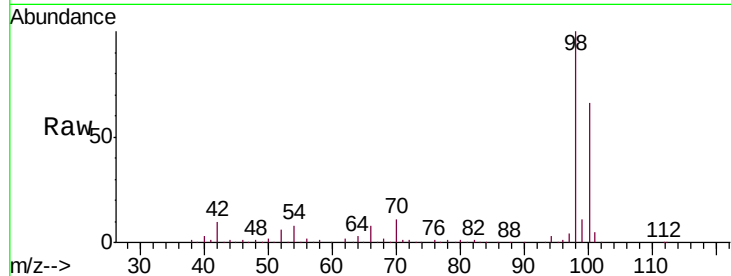




#50
Toluene-d8
Concen: 50.548 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

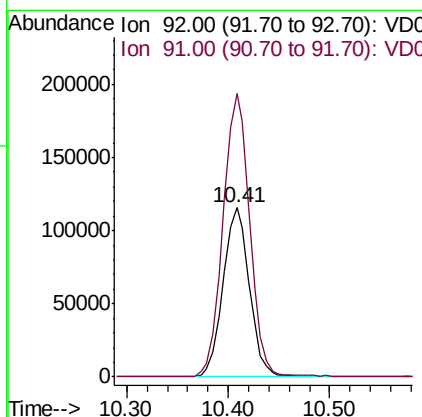
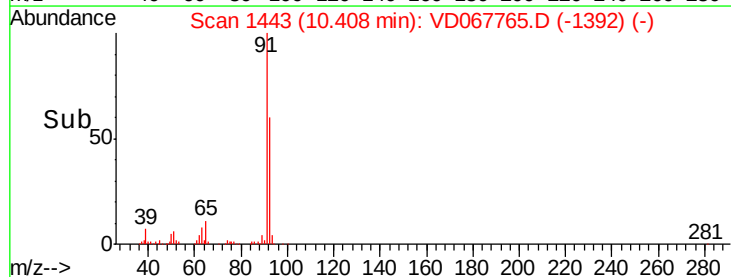
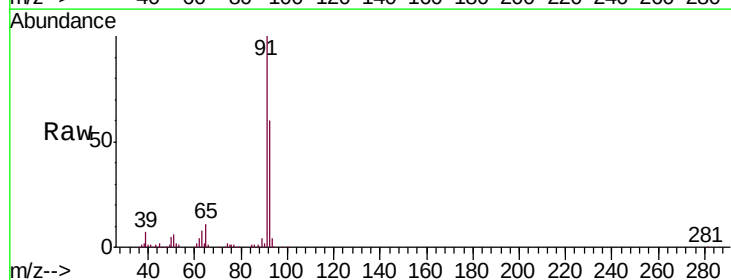
Instrument :
MSVOA_D
ClientSampleId :
30739

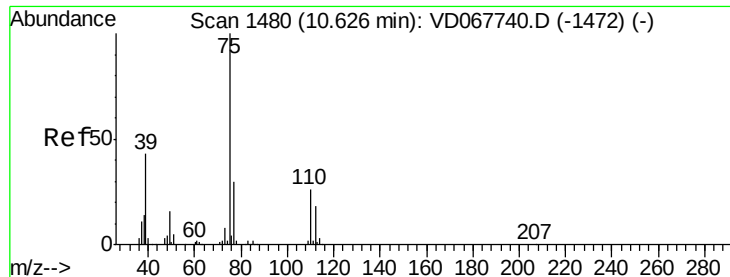
Tgt Ion: 98 Resp: 392330
Ion Ratio Lower Upper
98 100
100 66.3 53.1 79.7



#52
Toluene
Concen: 38.900 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Tgt Ion: 92 Resp: 207467
Ion Ratio Lower Upper
92 100
91 169.2 135.4 203.0





#53

t-1,3-Dichloropropene

Concen: 1.266 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.22 min

Lab File: VD067765.D

Acq: 24 Nov 2020 13:25

Instrument :

MSVOA_D

ClientSampleId :

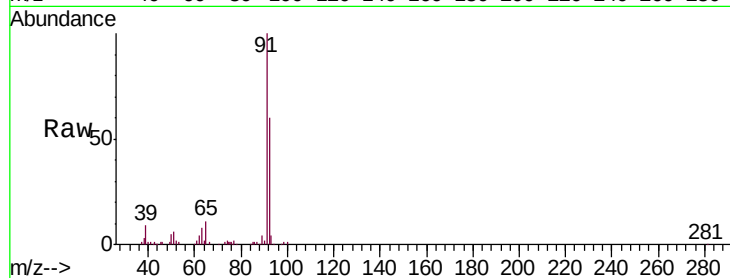
30739

Tgt Ion: 75 Resp: 3383

Ion Ratio Lower Upper

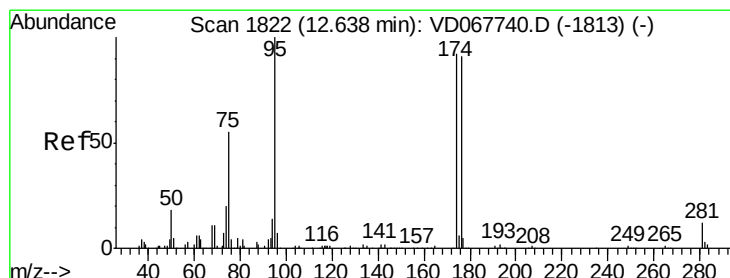
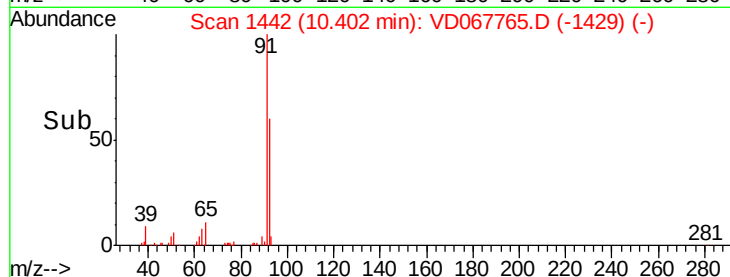
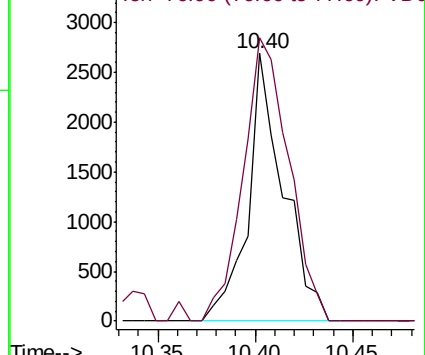
75 100

77 105.7 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#62

4-Bromofluorobenzene

Concen: 67.378 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067765.D

Acq: 24 Nov 2020 13:25

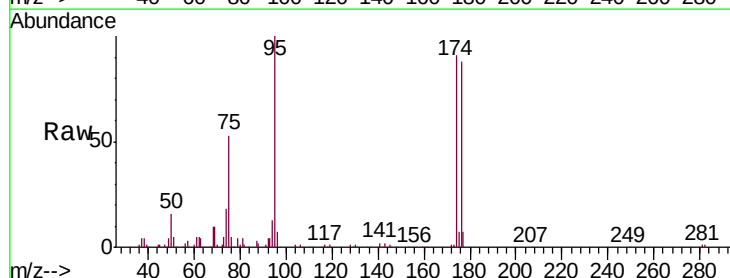
Tgt Ion: 95 Resp: 178751

Ion Ratio Lower Upper

95 100

174 91.6 0.0 182.4

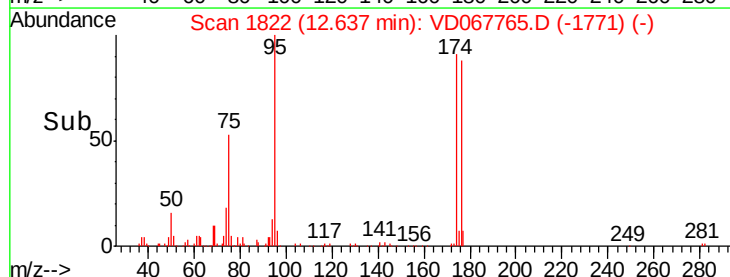
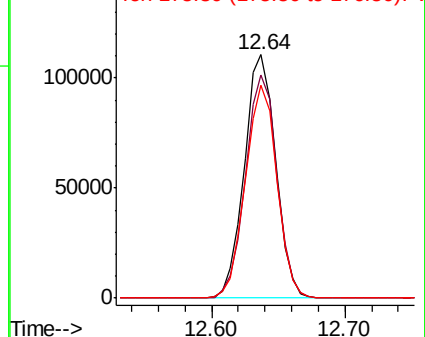
176 87.8 0.0 178.2

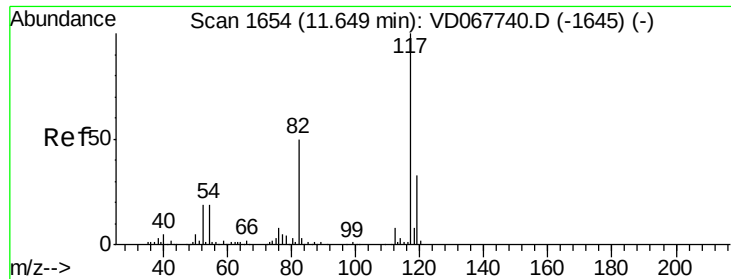


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

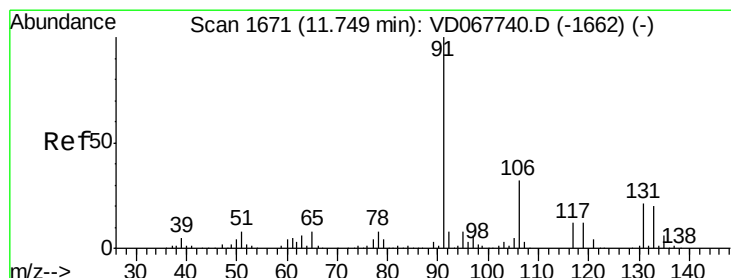
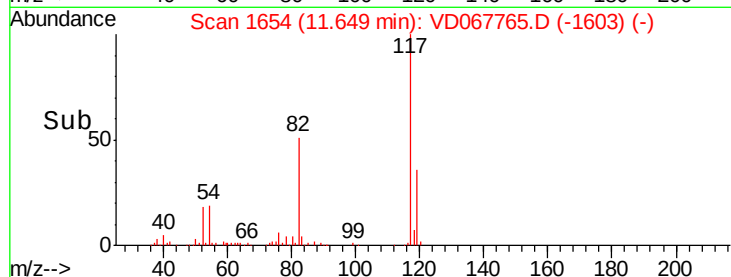
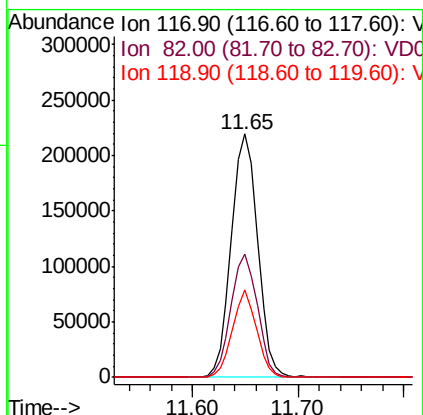
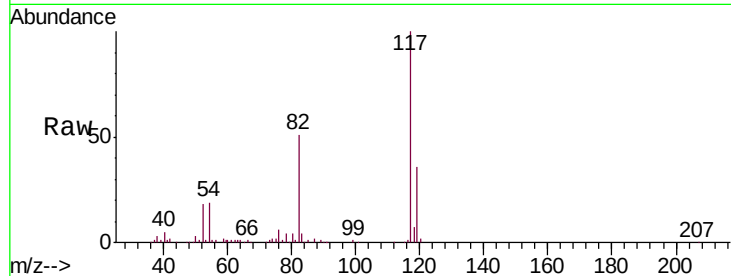




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

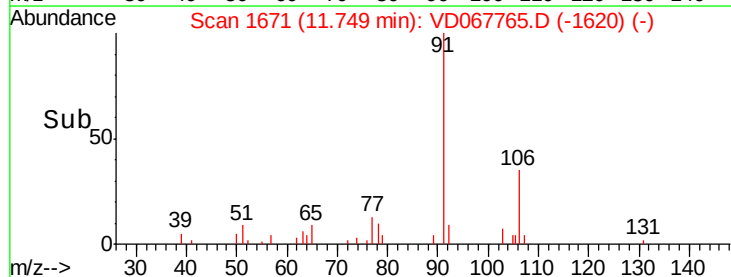
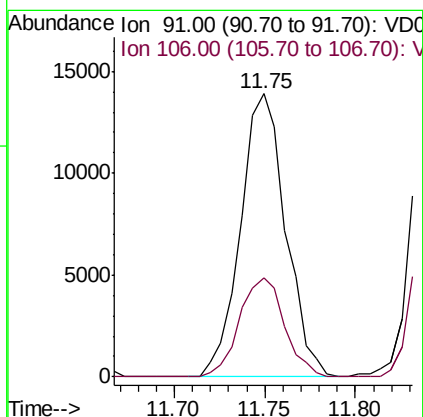
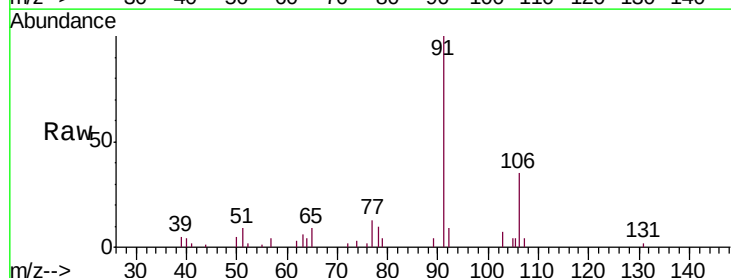
Instrument :
MSVOA_D
ClientSampleId :
30739

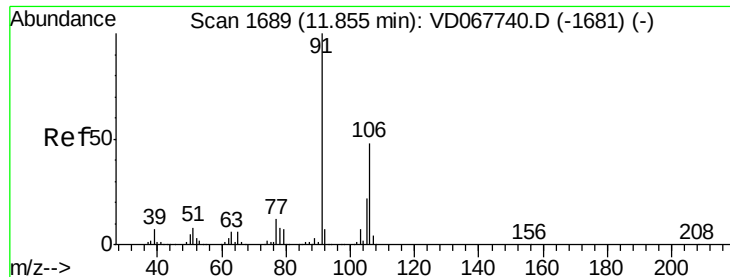
Tgt Ion: 117 Resp: 378187
Ion Ratio Lower Upper
117 100
82 50.8 40.2 60.4
119 35.7 26.5 39.7



#67
Ethyl Benzene
Concen: 1.874 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Tgt Ion: 91 Resp: 24051
Ion Ratio Lower Upper
91 100
106 35.2 25.7 38.5





#68

m/p-Xylenes

Concen: 11.241 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD067765.D

Acq: 24 Nov 2020 13:25

Instrument :

MSVOA_D

ClientSampleId :

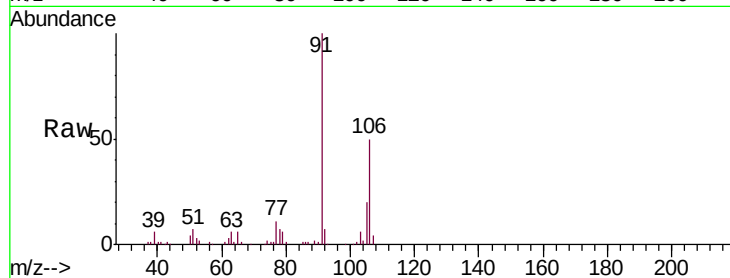
30739

Tgt Ion:106 Resp: 56132

Ion Ratio Lower Upper

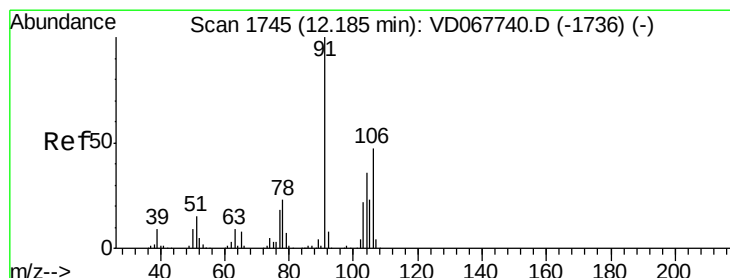
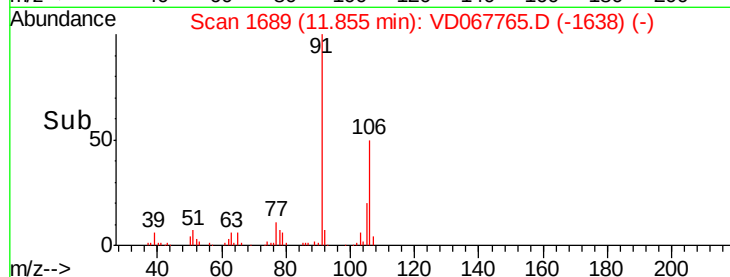
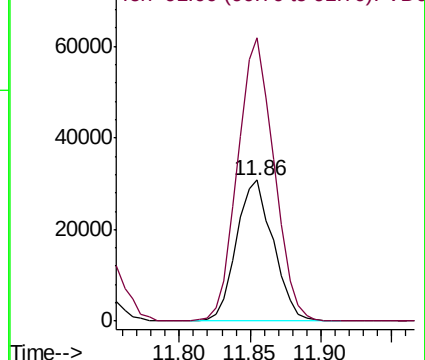
106 100

91 199.2 163.0 244.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V



#69

o-Xylene

Concen: 5.151 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. -0.00 min

Lab File: VD067765.D

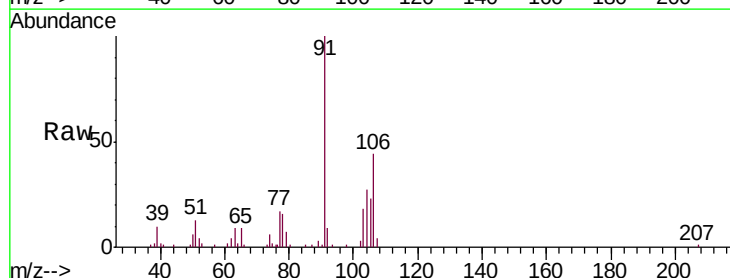
Acq: 24 Nov 2020 13:25

Tgt Ion:106 Resp: 23420

Ion Ratio Lower Upper

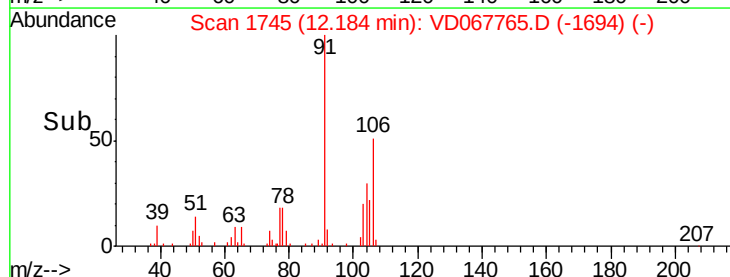
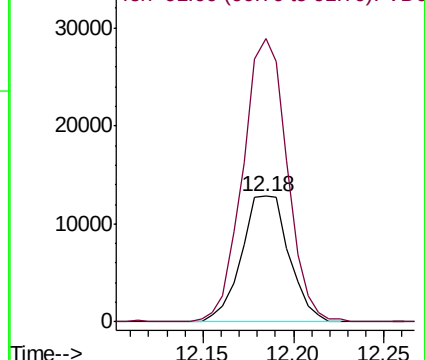
106 100

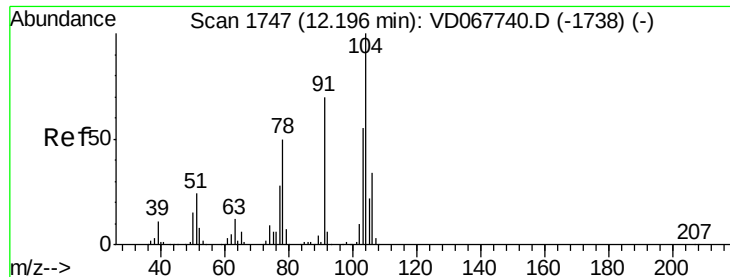
91 210.1 106.2 318.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

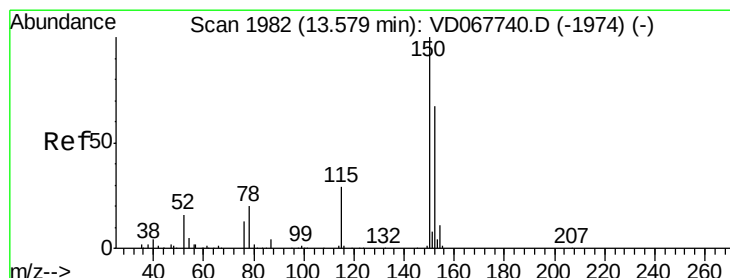
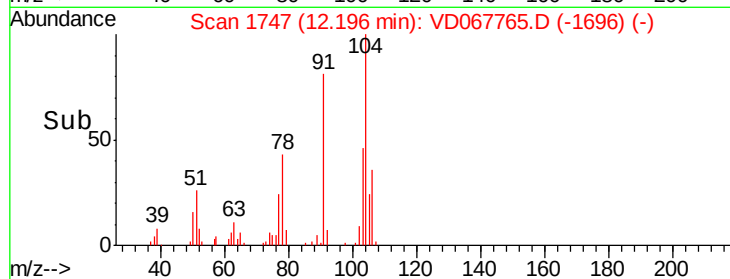
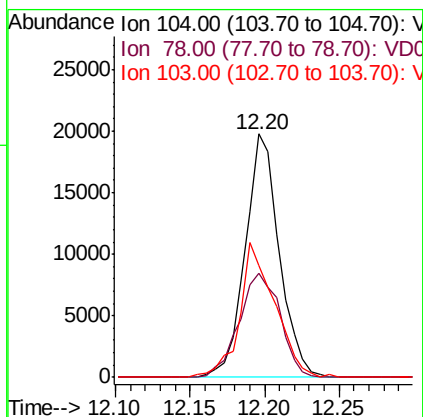
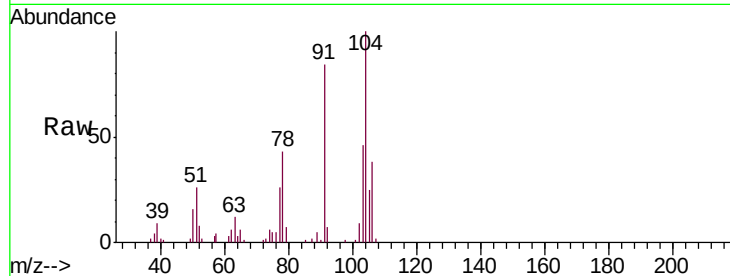




#70
Styrene
Concen: 4.022 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

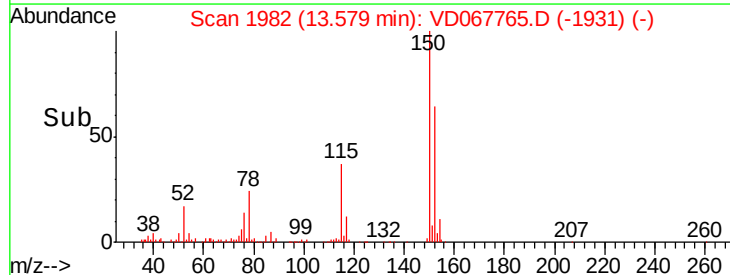
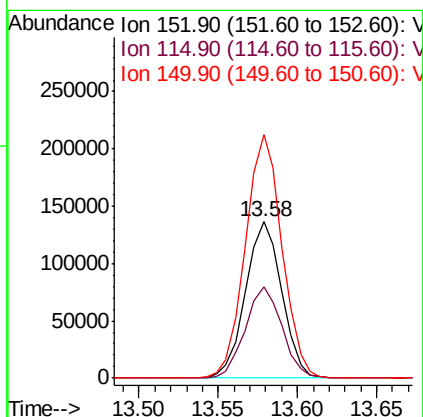
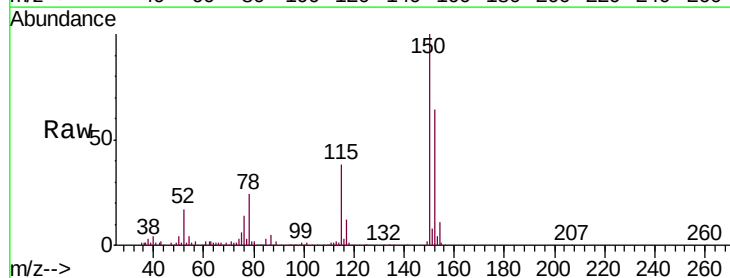
Instrument :
MSVOA_D
ClientSampleId :
30739

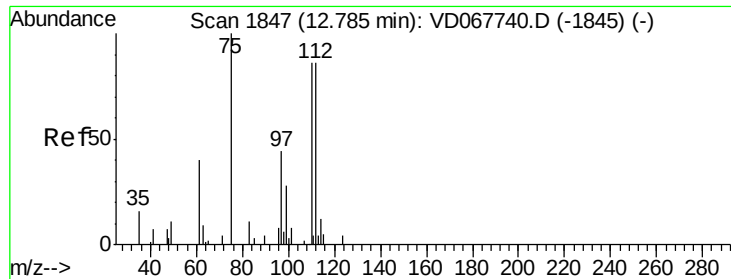
Tgt Ion:104 Resp: 31149
Ion Ratio Lower Upper
104 100
78 51.8 41.9 62.9
103 56.9 44.1 66.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD067765.D
Acq: 24 Nov 2020 13:25

Tgt Ion:152 Resp: 217671
Ion Ratio Lower Upper
152 100
115 58.8 29.4 88.3
150 156.5 0.0 340.6

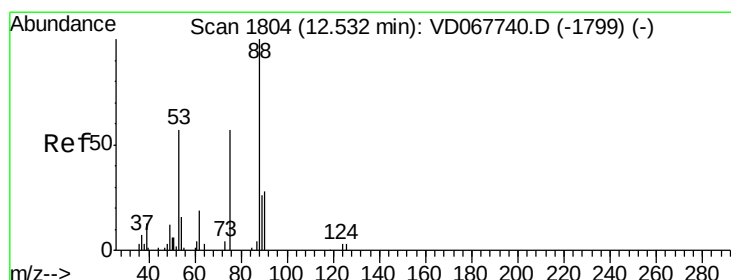
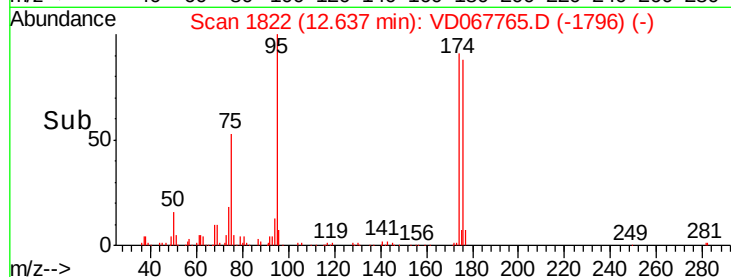
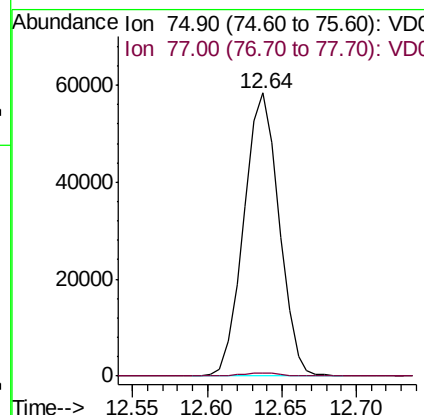
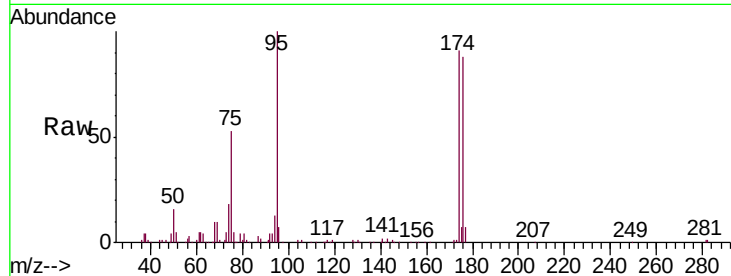




#76
 1,2,3-Trichloropropane
 Concen: 62.861 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

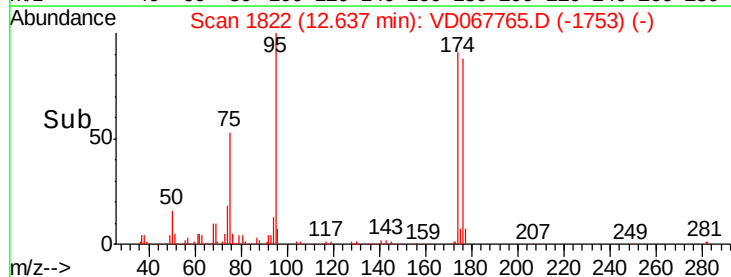
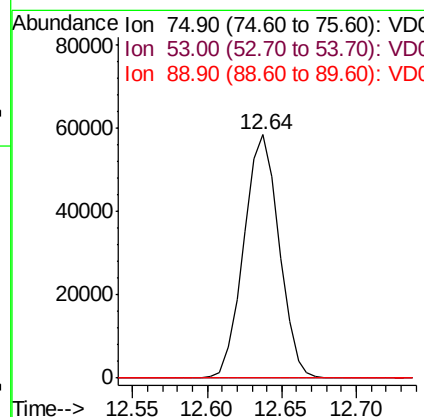
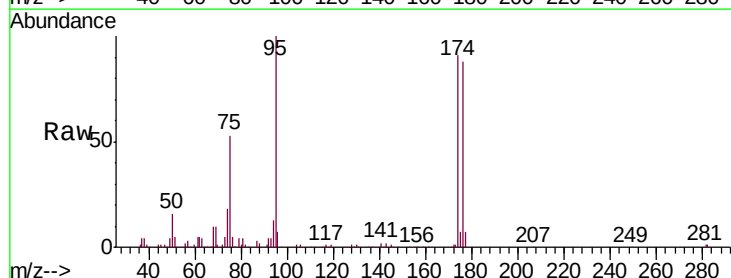
Instrument :
 MSVOA_D
 ClientSampleId :
 30739

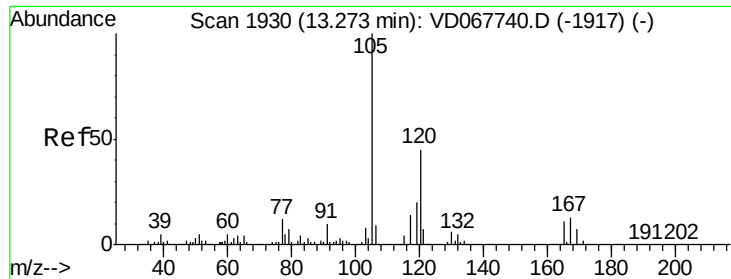
Tgt Ion: 75 Resp: 95364
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.027 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

Tgt Ion: 75 Resp: 95364
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.0 114.0#
 89 0.0 40.2 60.4#

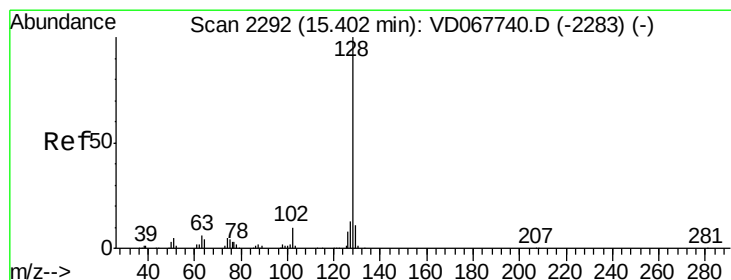
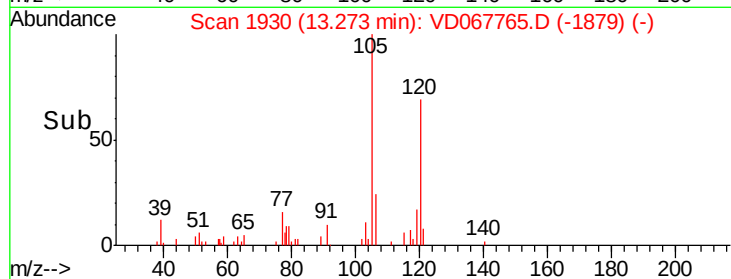
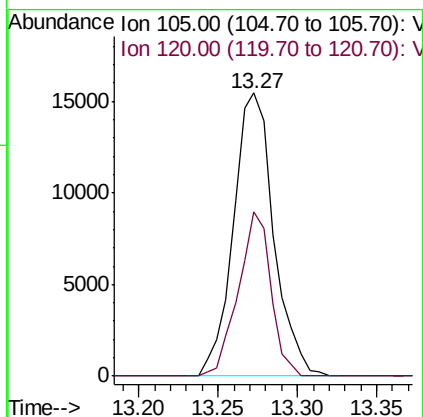
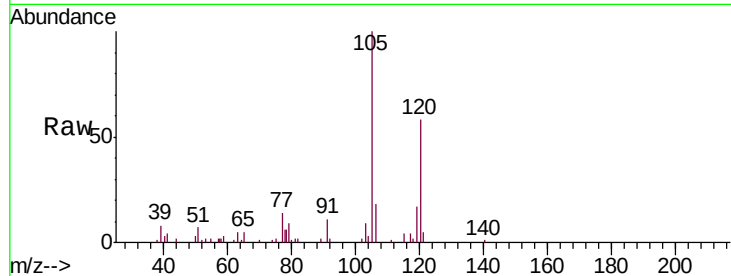




#84
 1,2,4-Trimethylbenzene
 Concen: 2.189 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.00 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

Instrument :
 MSVOA_D
 ClientSampleId :
 30739

Tgt Ion:105 Resp: 27234
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.6 67.7



#95
 Naphthalene
 Concen: 97.433 ug/l
 RT: 15.40 min Scan# 2292
 Delta R.T. -0.00 min
 Lab File: VD067765.D
 Acq: 24 Nov 2020 13:25

Tgt Ion:128 Resp: 667341
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.7 16.1
 129 11.1 8.6 12.8

