

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041719\
 Data File : VD061861.D
 Acq On : 17 Apr 2019 19:11
 Operator : VA/AP
 Sample : K2358-10RE
 Misc : 4.99g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 18 01:07:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	360581	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	8.21	114	581233	50.00	ug/l	-0.06
63) Chlorobenzene-d5	12.36	117	442293	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	14.51	152	140589	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	139638	46.21	ug/l	-0.06
Spiked Amount			Recovery	=	92.42%	
35) Dibromofluoromethane	6.91	113	125029	28.47	ug/l	-0.07
Spiked Amount			Recovery	=	56.94%	
50) Toluene-d8	10.40	98	431708	41.49	ug/l	-0.05
Spiked Amount			Recovery	=	82.98%	
62) 4-Bromofluorobenzene	13.54	95	142295	33.74	ug/l	-0.04
Spiked Amount			Recovery	=	67.48%	

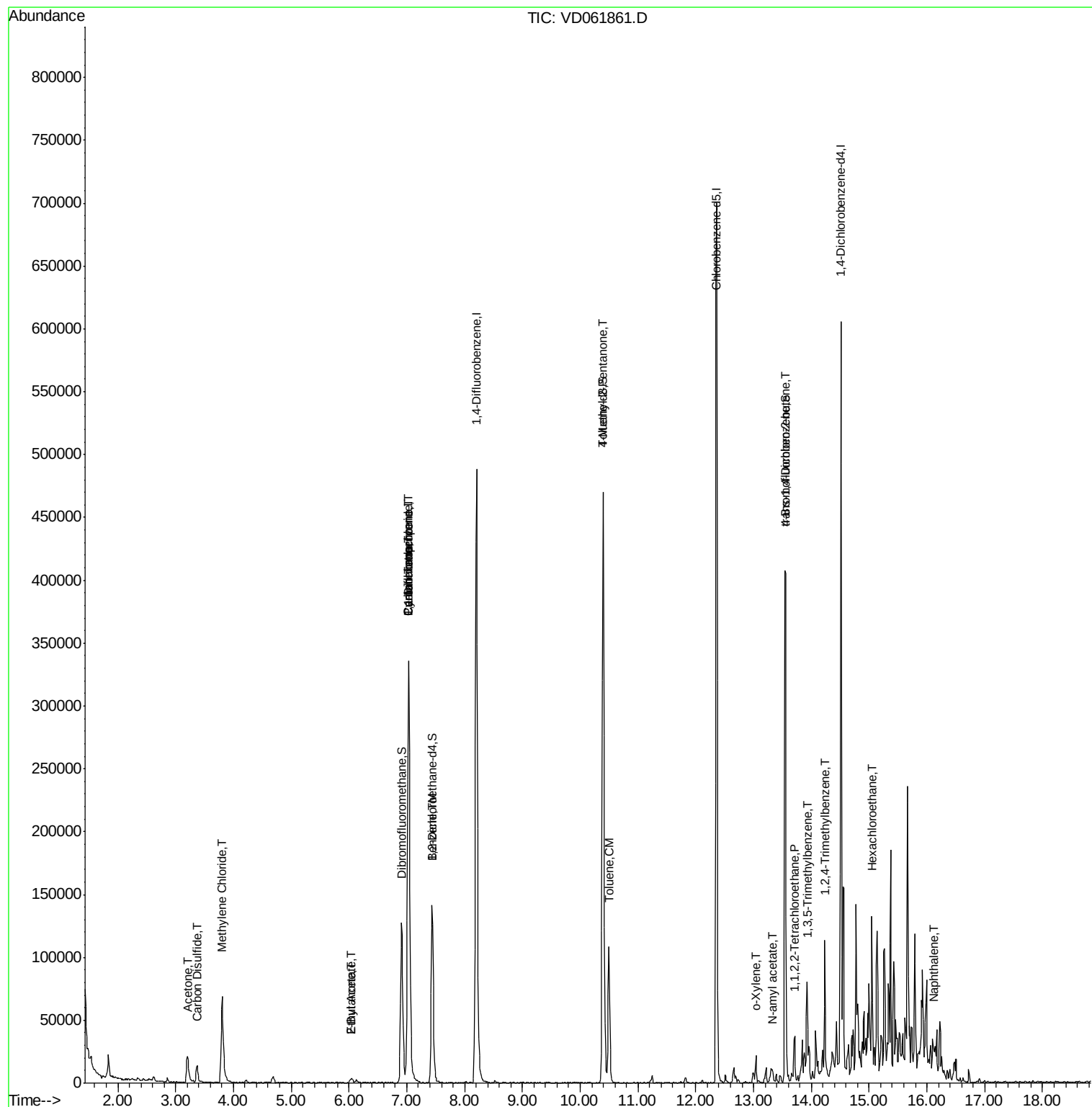
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	188	Below Cal	#	12
16) Acetone	3.21	43	42345	56.853	ug/l	97
17) Carbon Disulfide	3.37	76	27108	2.479	ug/l #	92
20) Methylene Chloride	3.81	84	50105	9.850	ug/l	94
25) 2-Butanone	6.05	43	6495	7.660	ug/l	96
31) Cyclohexane	7.03	56	6573	1.436	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	26871	5.658	ug/l #	47
37) Ethyl Acetate	6.05	43	6495	3.195	ug/l #	64
38) Carbon Tetrachloride	7.04	117	36129	6.024	ug/l #	15
40) Benzene	7.45	78	12311	1.080	ug/l	95
51) 4-Methyl-2-Pentanone	10.40	43	2049	1.171	ug/l #	1
52) Toluene	10.50	92	62957	8.616	ug/l	94
69) o-Xylene	13.04	106	5446	1.169	ug/l	88
74) N-amyl acetate	13.33	43	4172	1.702	ug/l #	55
75) 1,1,2,2-Tetrachloroethane	13.71	83	2208	1.225	ug/l #	25
80) 1,3,5-Trimethylbenzene	13.93	105	34766	4.806	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.54	75	52613	85.399	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.23	105	44391	6.104	ug/l	99
90) Hexachloroethane	15.05	117	3871	1.729	ug/l #	20
95) Naphthalene	16.12	128	11286	3.540	ug/l	97

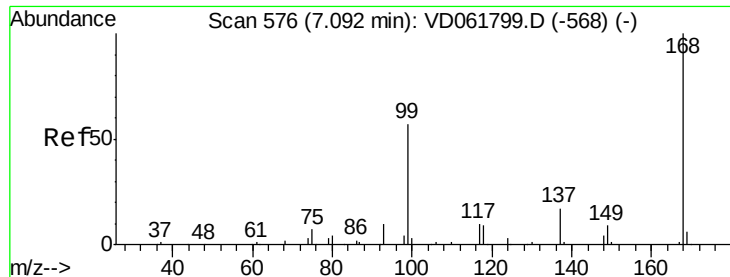
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

Instrument :

MSVOA_D

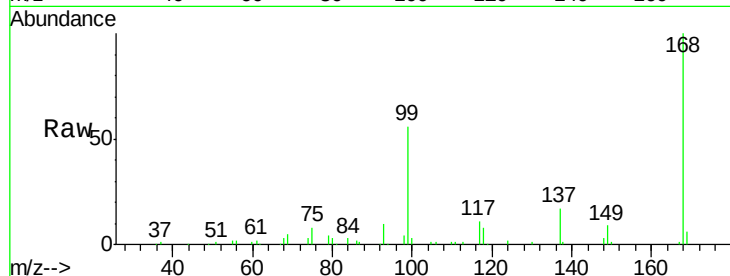
ClientSampleId :

Tot Ion:168 Resp: 360581

Ion Ratio Lower Upper

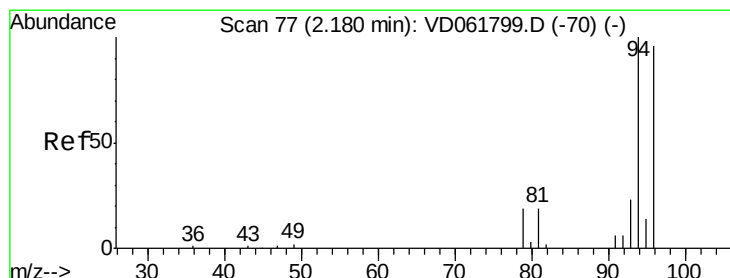
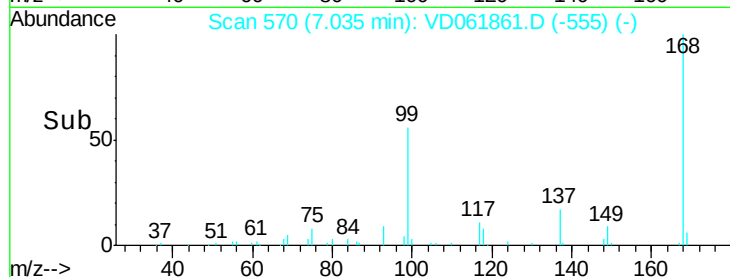
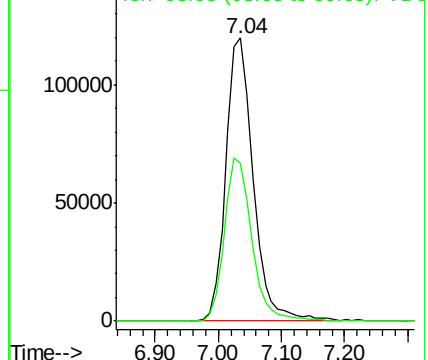
168 100

99 55.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 76

Delta R.T. -0.01 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

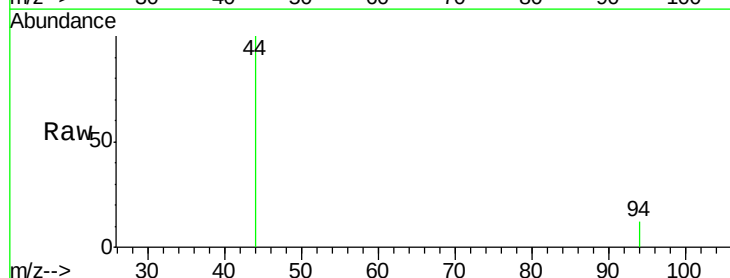
Tgt Ion: 94 Resp: 188

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

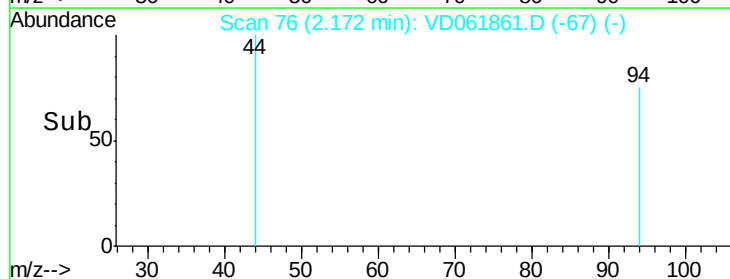
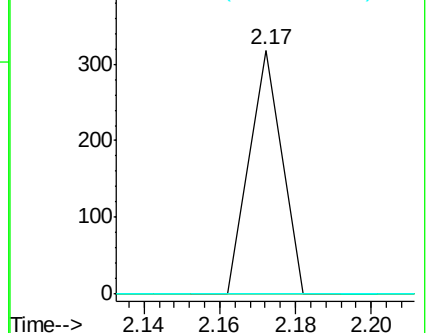
93 0.0 18.5 27.7#

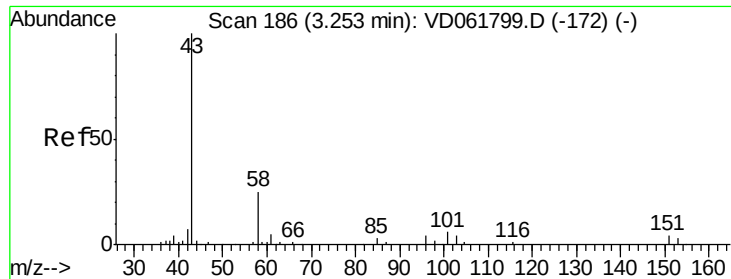


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

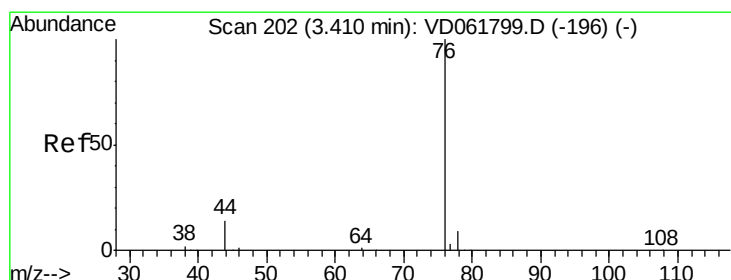
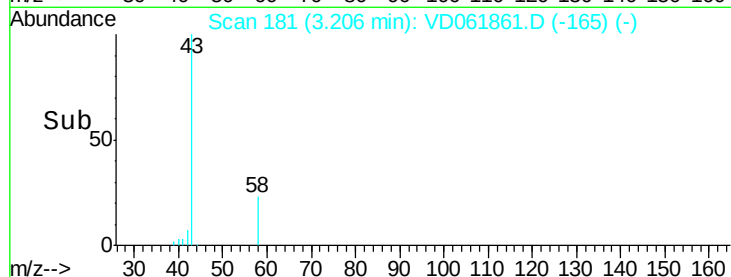
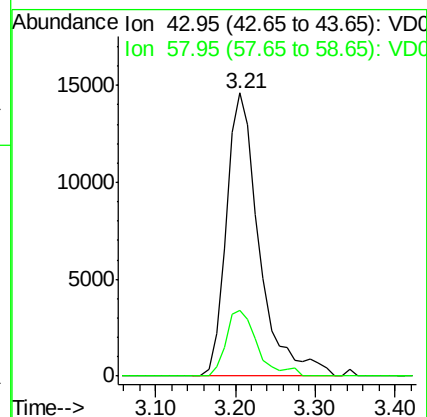
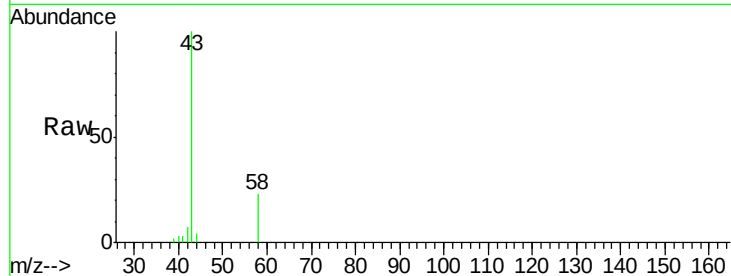




#16
Acetone
Concen: 56.853 ug/l
RT: 3.21 min Scan# 181
Delta R.T. -0.05 min
Lab File: VD061861.D
Acq: 17 Apr 2019 19:11

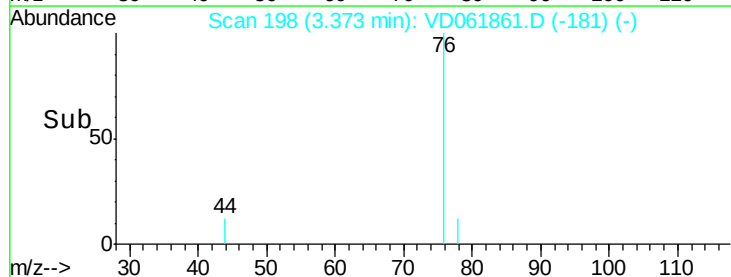
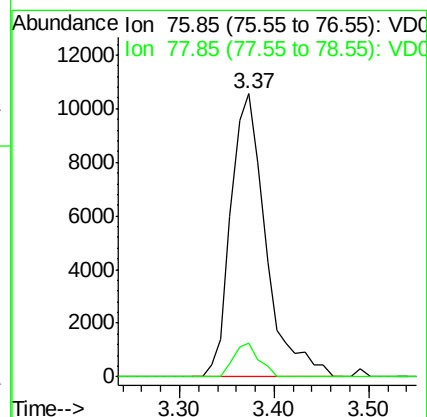
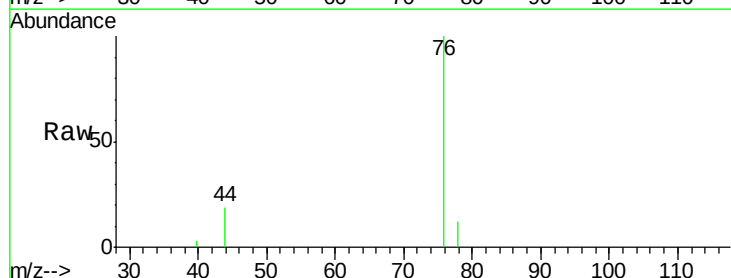
Instrument :
MSVOA_D
ClientSampleId :

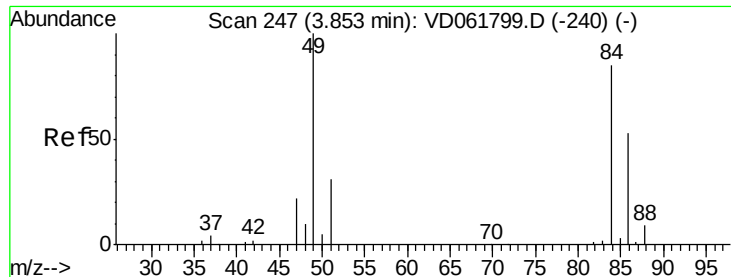
Tot Ion: 43 Resp: 42345
Ion Ratio Lower Upper
43 100
58 23.4 19.9 29.9



#17
Carbon Disulfide
Concen: 2.479 ug/l
RT: 3.37 min Scan# 198
Delta R.T. -0.04 min
Lab File: VD061861.D
Acq: 17 Apr 2019 19:11

Tgt Ion: 76 Resp: 27108
Ion Ratio Lower Upper
76 100
78 11.8 7.2 10.8#

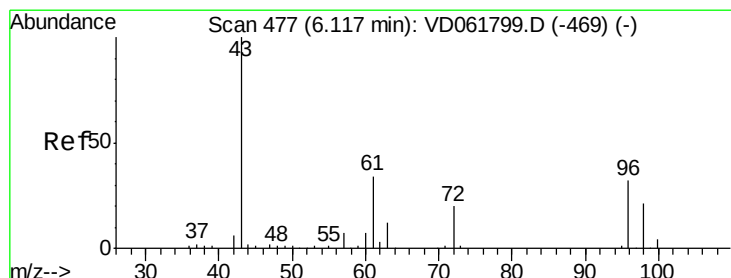
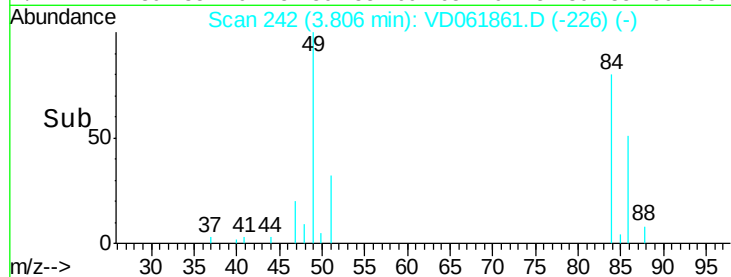
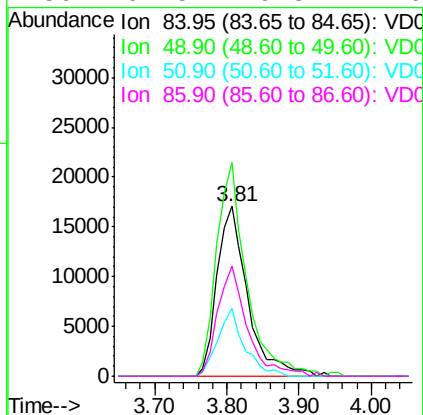
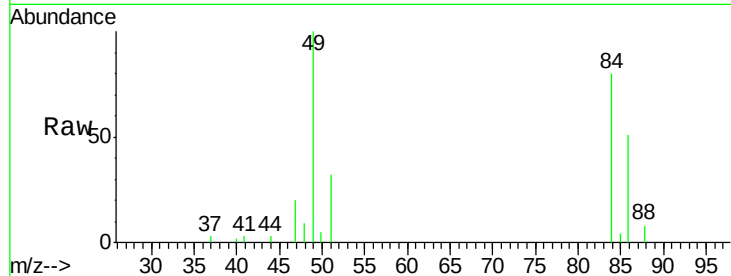




#20
Methvlene Chloride
Concen: 9.850 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.05 min
Lab File: VD061861.D
Acq: 17 Apr 2019 19:11

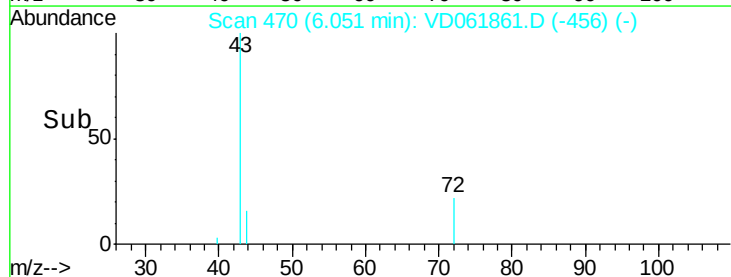
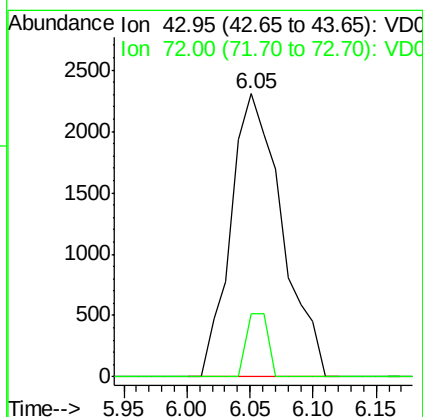
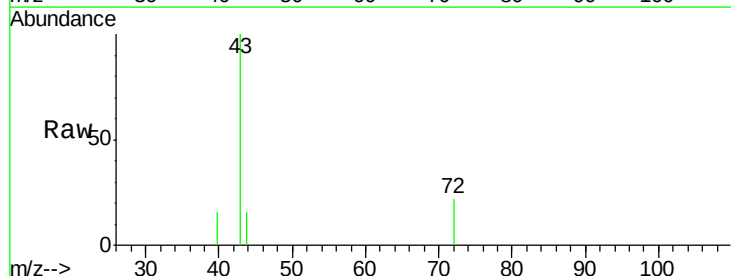
Instrument :
MSVOA_D
ClientSampleId :

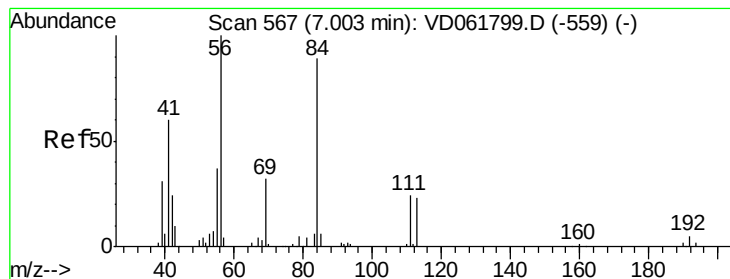
Tot Ion: 84 Resp: 50105
Ion Ratio Lower Upper
84 100
49 125.6 94.0 141.0
51 40.1 29.0 43.4
86 64.5 49.8 74.6



#25
2-Butanone
Concen: 7.660 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.07 min
Lab File: VD061861.D
Acq: 17 Apr 2019 19:11

Tgt Ion: 43 Resp: 6495
Ion Ratio Lower Upper
43 100
72 22.3 16.2 24.4





#31

Cyclohexane

Concen: 1.436 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.02 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

Instrument :

MSVOA_D

ClientSampleId :

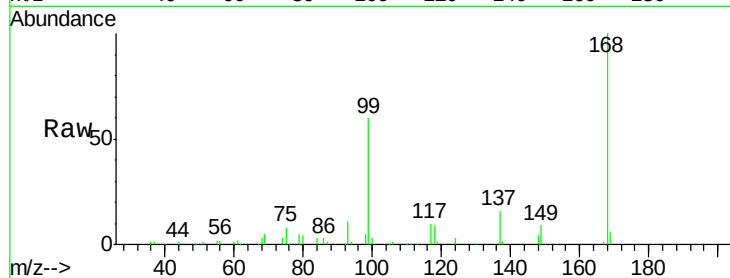
Tot Ion: 56 Resp: 6573

Ion Ratio Lower Upper

56 100

69 242.6 25.8 38.6#

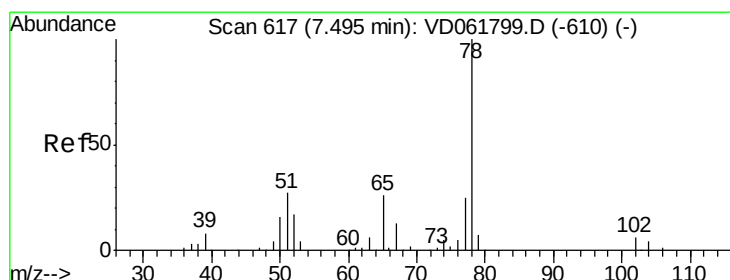
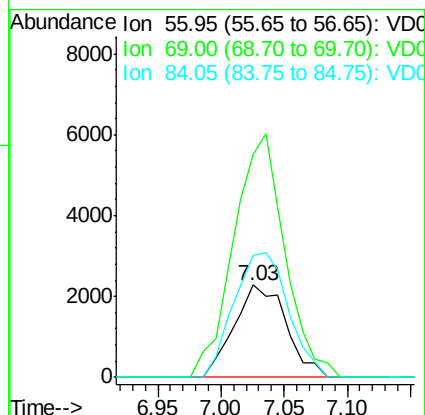
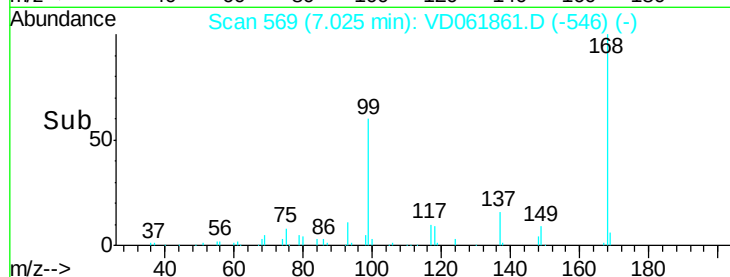
84 132.1 72.2 108.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.06 min

Lab File: VD061861.D

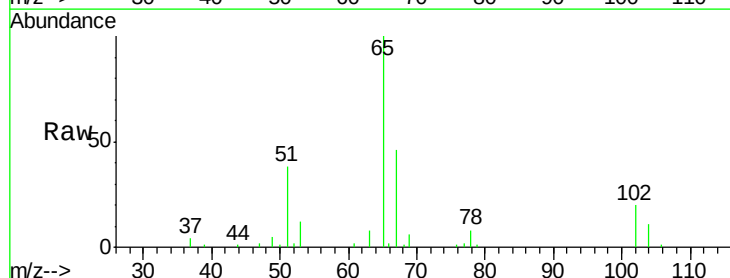
Acq: 17 Apr 2019 19:11

Tgt Ion: 65 Resp: 139638

Ion Ratio Lower Upper

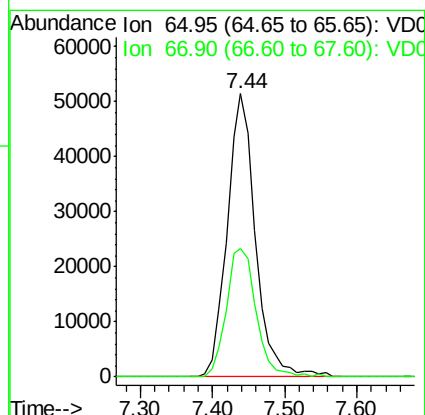
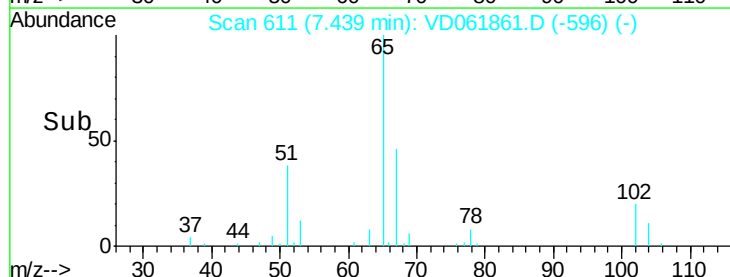
65 100

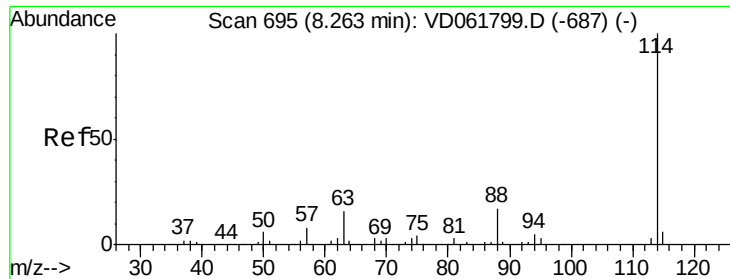
67 45.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

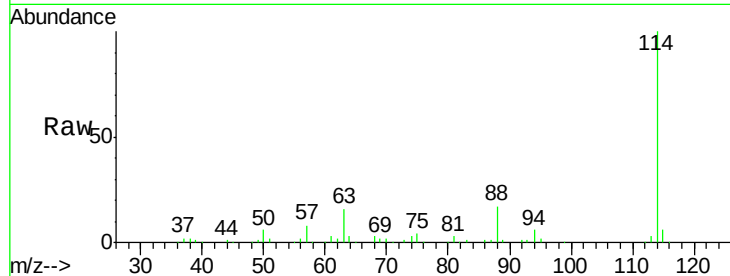




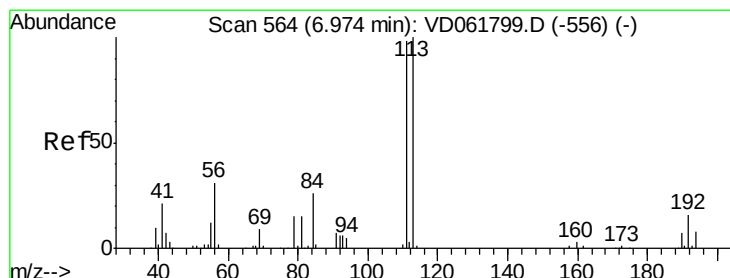
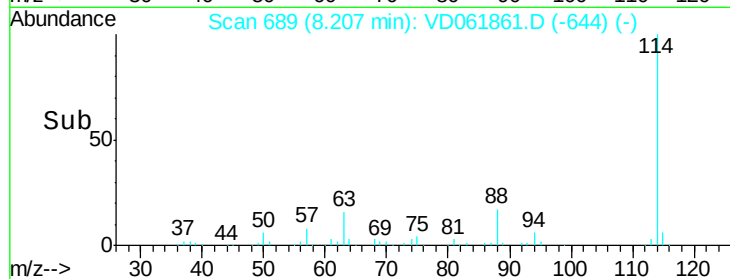
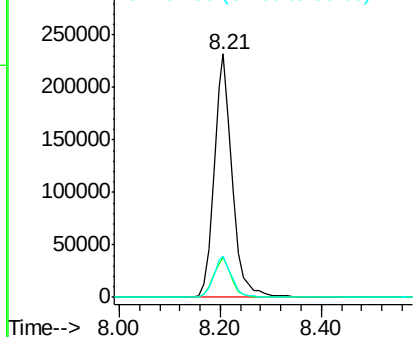
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.06 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 581233
 Ion Ratio Lower Upper
 114 100
 63 16.3 0.0 32.4
 88 17.1 0.0 33.6

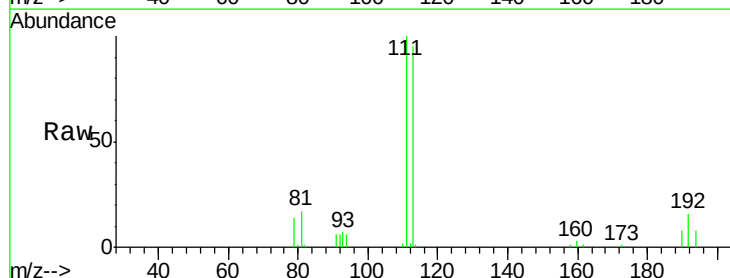


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

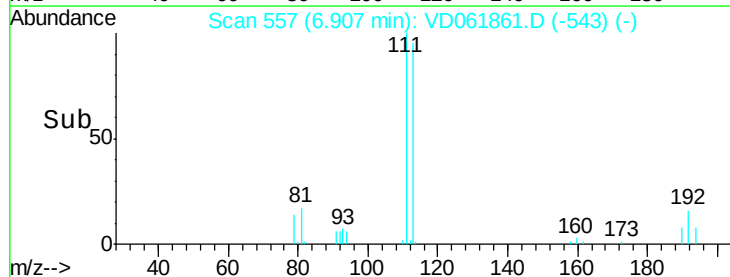
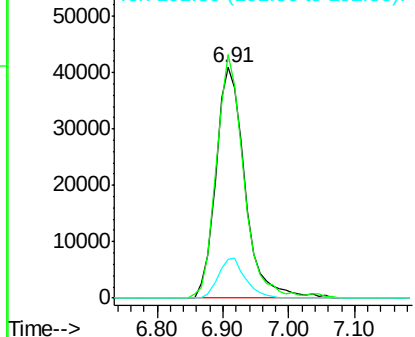


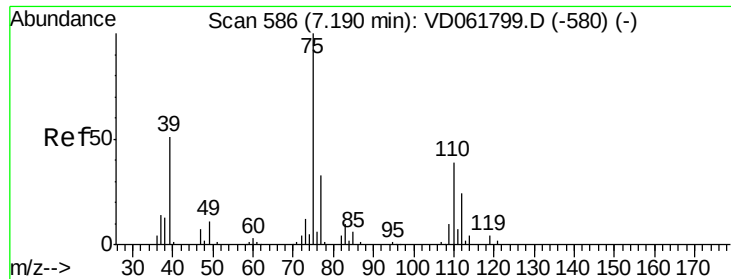
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.07 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

Tgt Ion:113 Resp: 125029
 Ion Ratio Lower Upper
 113 100
 111 105.7 78.5 117.7
 192 16.9 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

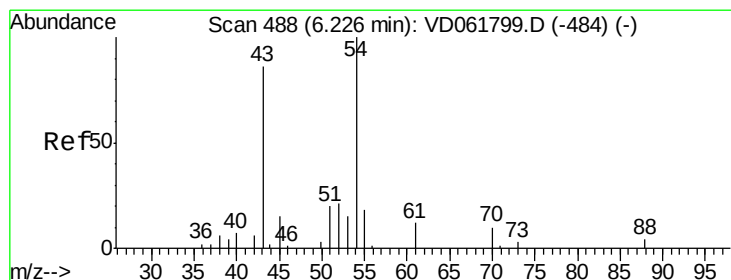
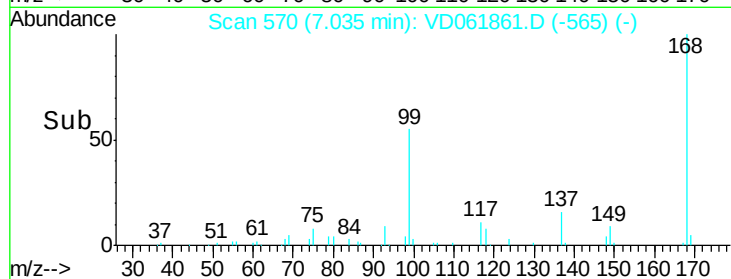
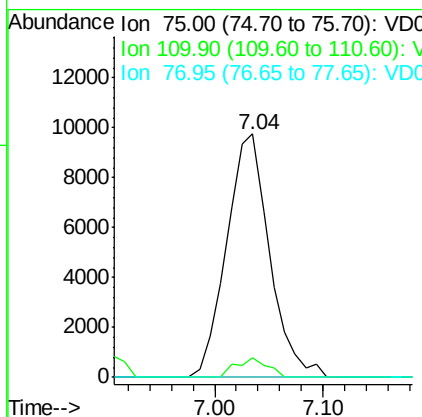
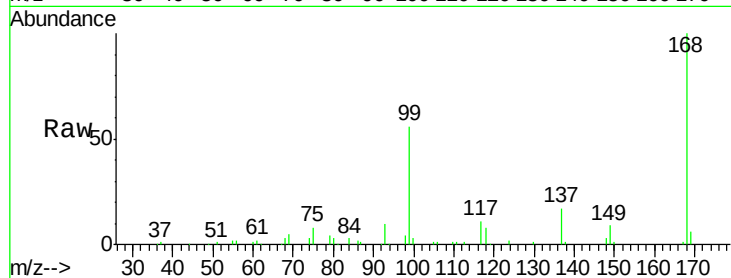




#36
 1,1-Dichloropropene
 Concen: 5.658 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.16 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

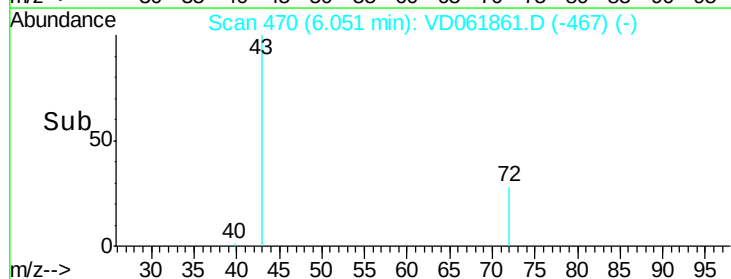
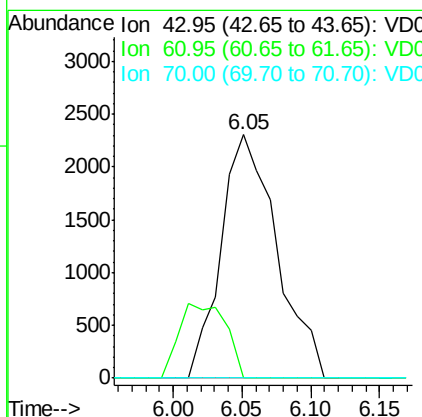
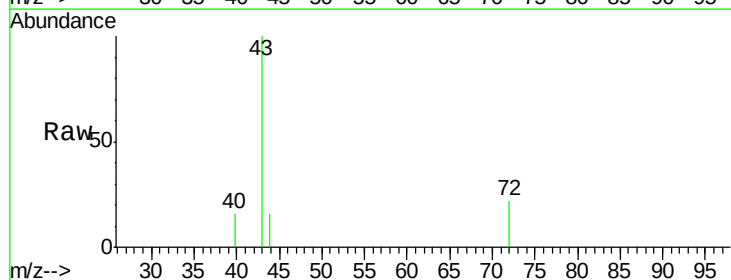
Instrument :
 MSVOA_D
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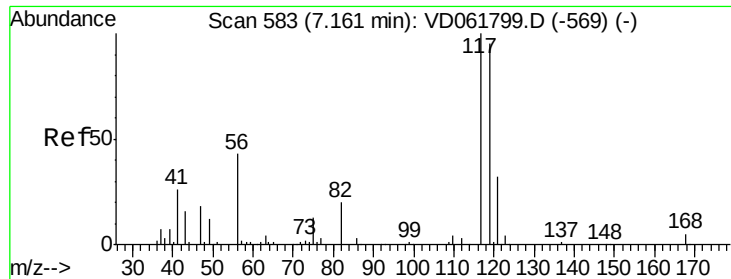
Tot Ion: 75 Resp: 26871
 Ion Ratio Lower Upper
 75 100
 110 7.8 19.1 57.1#
 77 0.0 25.6 38.4#



#37
 Ethyl Acetate
 Concen: 3.195 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. -0.17 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

Tgt Ion: 43 Resp: 6495
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.7 22.1#
 70 0.0 7.8 11.6#

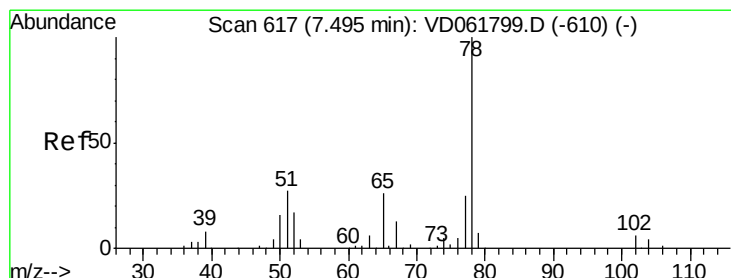
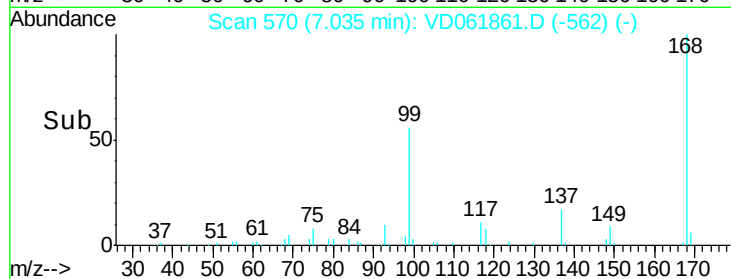
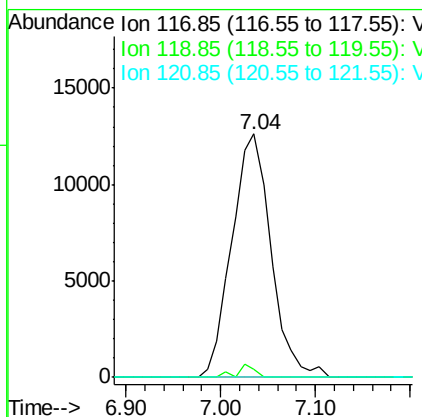
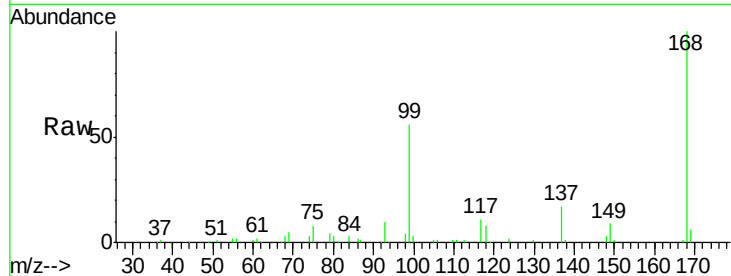




#38
 Carbon Tetrachloride
 Concen: 6.024 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

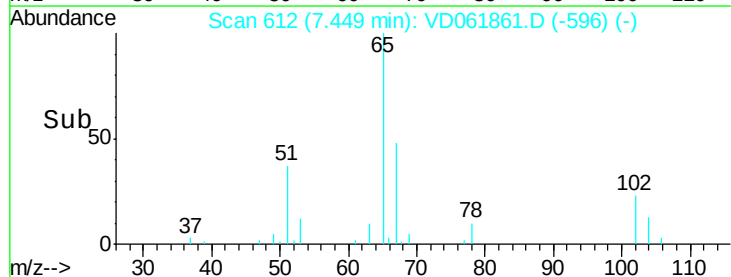
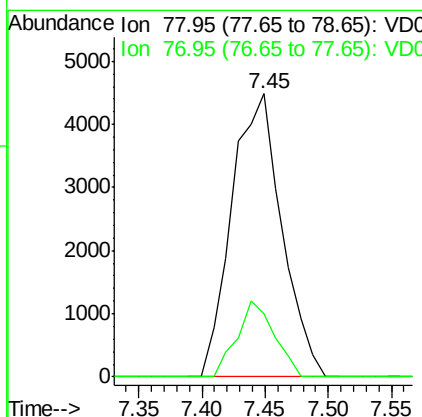
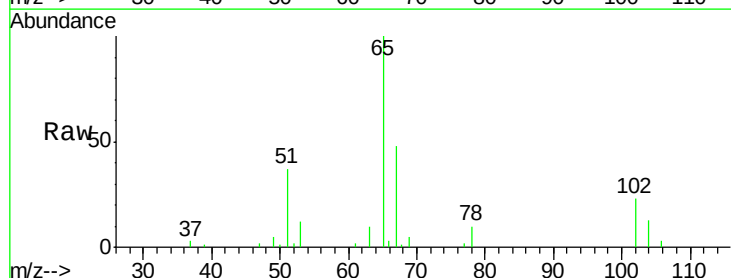
Instrument :
 MSVOA_D
 ClientSampleId :

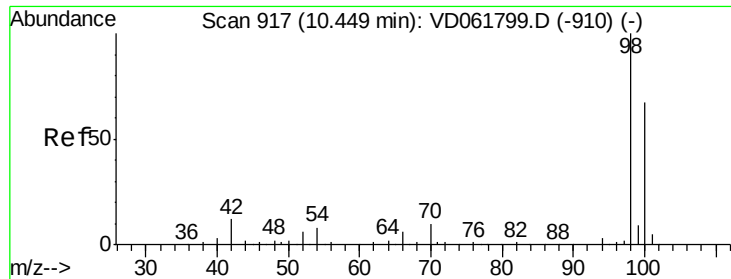
Tot Ion:117 Resp: 36129
 Ion Ratio Lower Upper
 117 100
 119 3.3 75.8 113.8#
 121 0.0 25.9 38.9#



#40
 Benzene
 Concen: 1.080 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.05 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

Tgt Ion: 78 Resp: 12311
 Ion Ratio Lower Upper
 78 100
 77 22.3 19.7 29.5

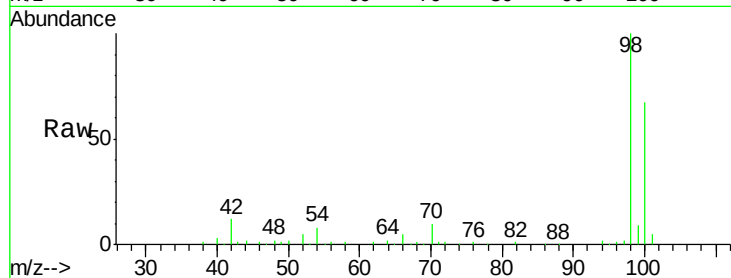




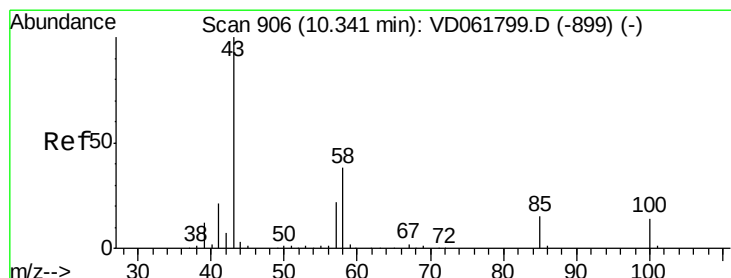
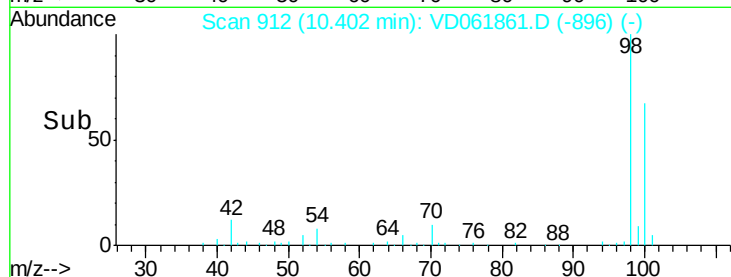
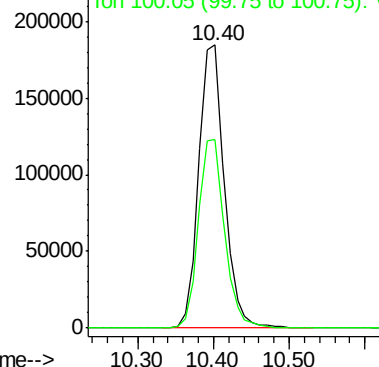
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.05 min
Lab File: VD061861.D
Acq: 17 Apr 2019 19:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 431708
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.8

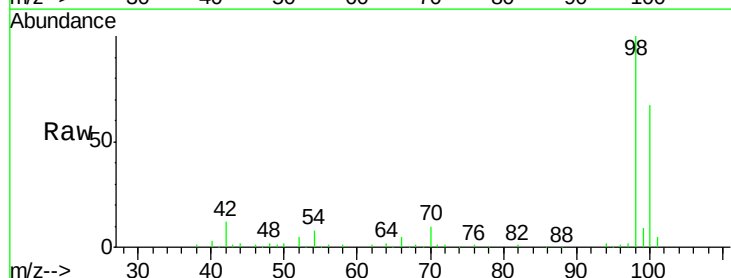


Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

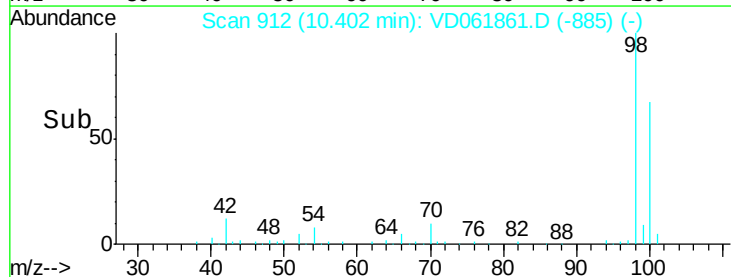
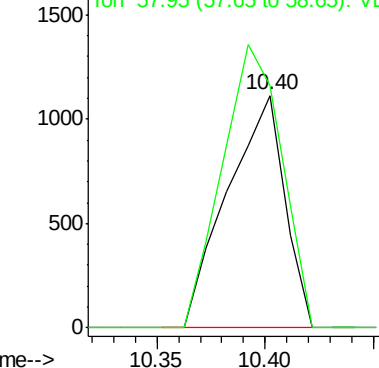


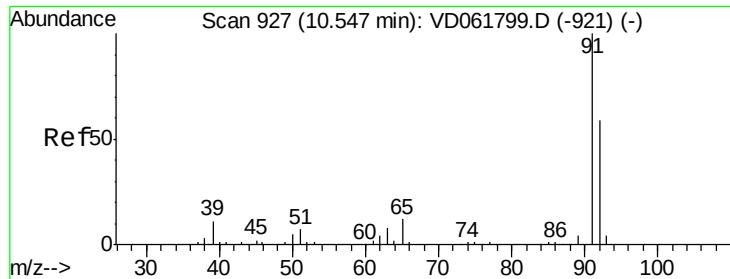
#51
4-Methyl-2-Pentanone
Concen: 1.171 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.06 min
Lab File: VD061861.D
Acq: 17 Apr 2019 19:11

Tgt Ion: 43 Resp: 2049
Ion Ratio Lower Upper
43 100
58 103.9 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD061799.D (-899) (-)
Ion 57.95 (57.65 to 58.65): VD061799.D (-899) (-)





#52

Toluene

Concen: 8.616 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.05 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

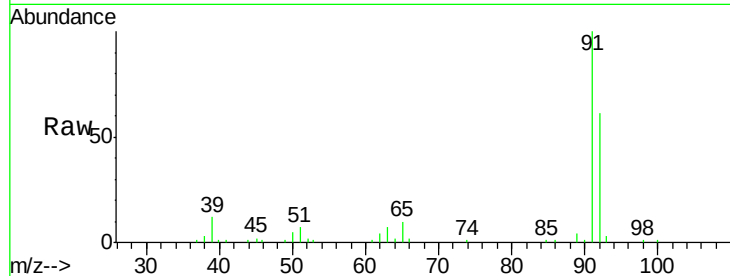
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 62957

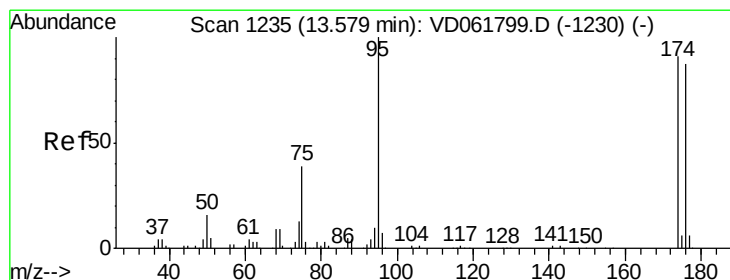
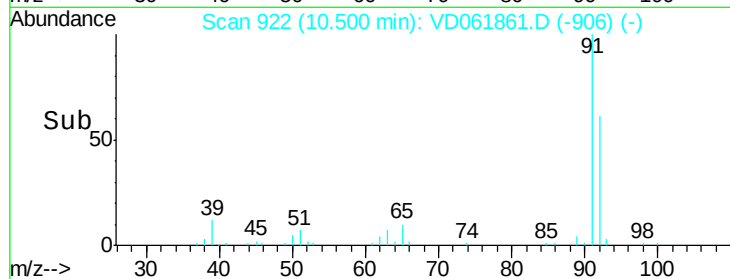
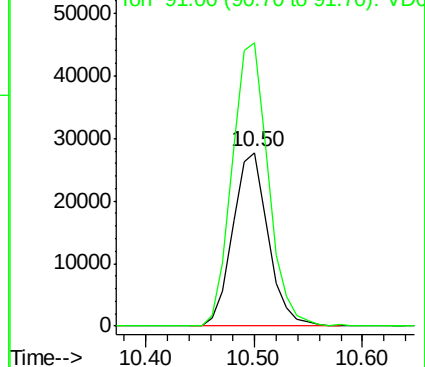
Ion Ratio Lower Upper

92 100

91 162.8 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.04 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

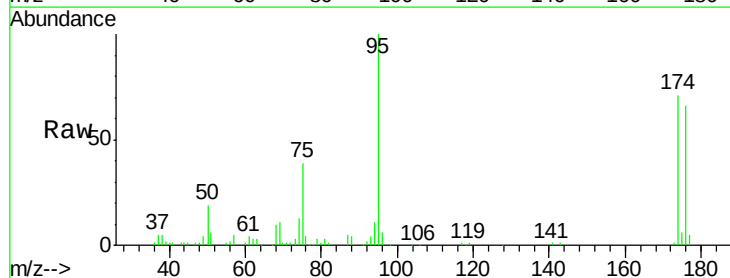
Tgt Ion: 95 Resp: 142295

Ion Ratio Lower Upper

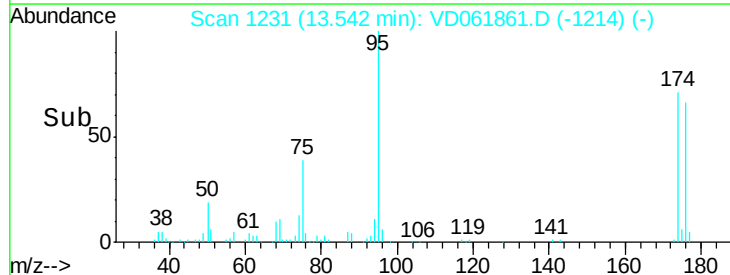
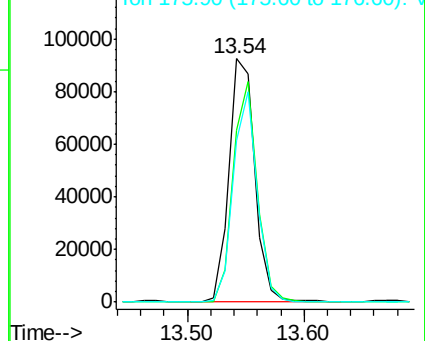
95 100

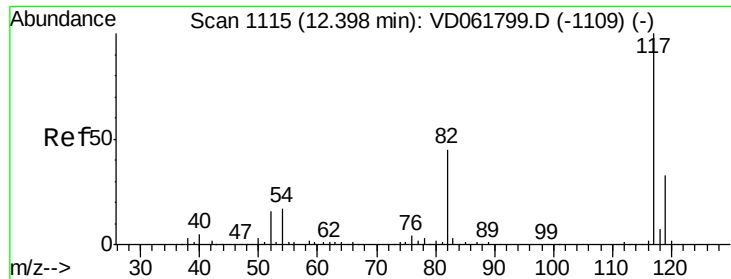
174 70.9 0.0 181.8

176 66.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. -0.04 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

Instrument :

MSVOA_D

ClientSampleId :

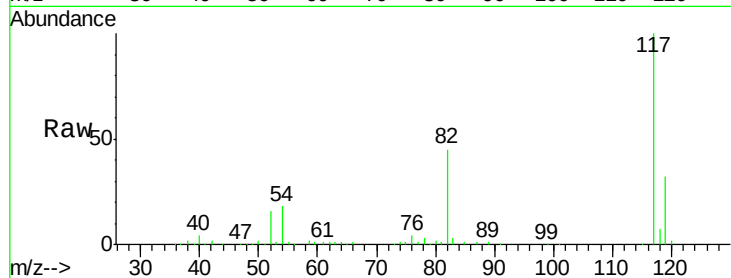
Tot Ion:117 Resp: 442293

Ion Ratio Lower Upper

117 100

82 45.0 36.2 54.2

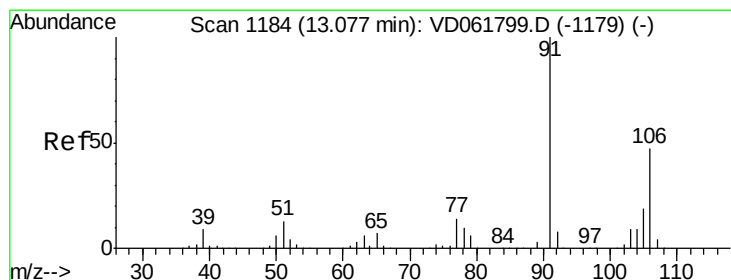
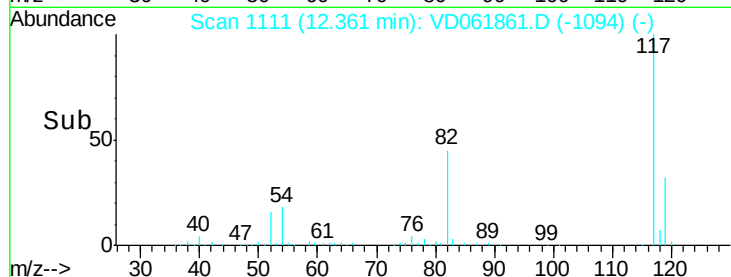
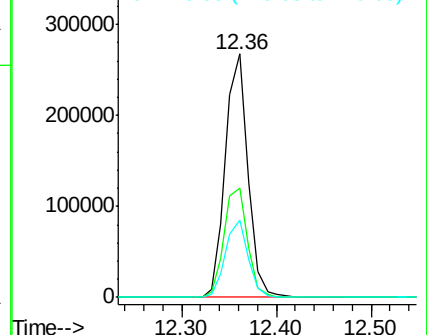
119 32.0 26.2 39.4



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#69

o-Xylene

Concen: 1.169 ug/l

RT: 13.04 min Scan# 1180

Delta R.T. -0.04 min

Lab File: VD061861.D

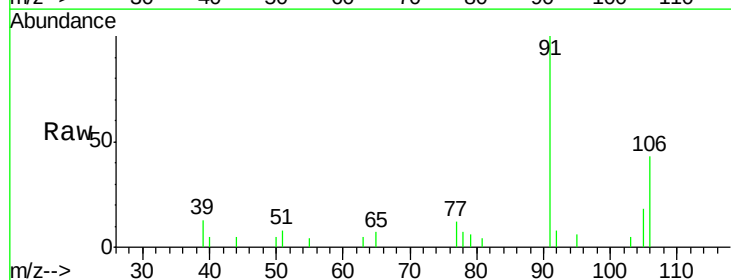
Acq: 17 Apr 2019 19:11

Tgt Ion:106 Resp: 5446

Ion Ratio Lower Upper

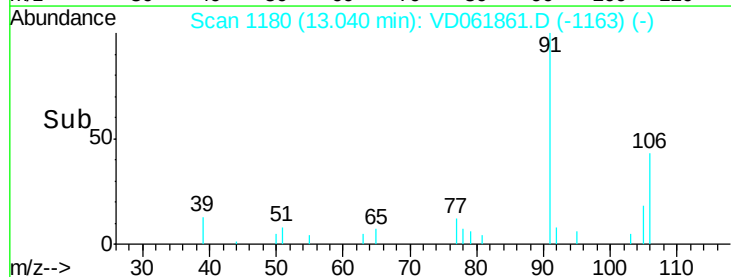
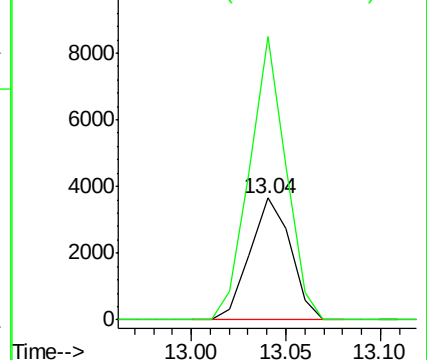
106 100

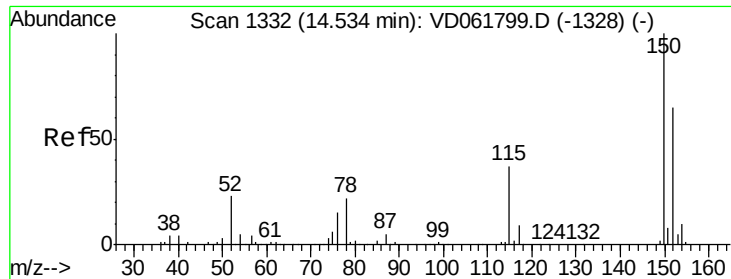
91 232.3 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

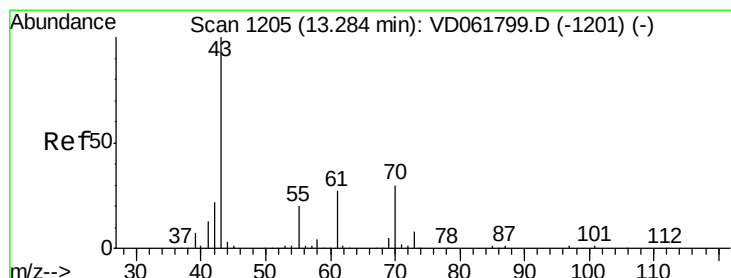
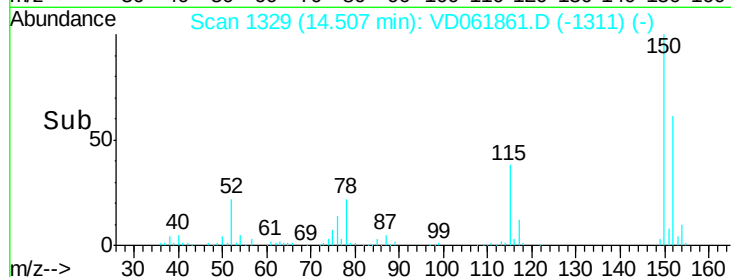
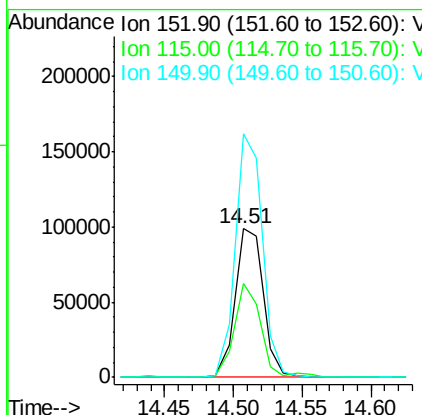
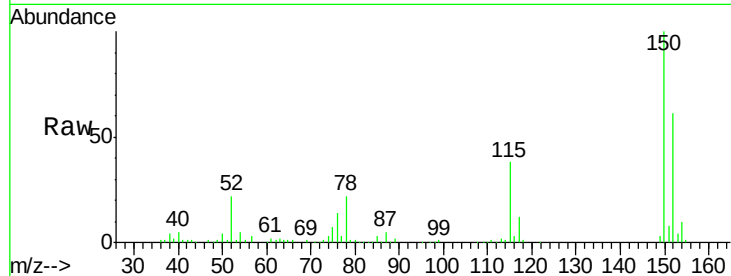




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1329
 Delta R.T. -0.03 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

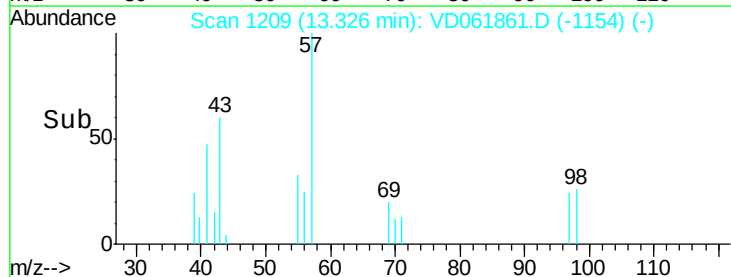
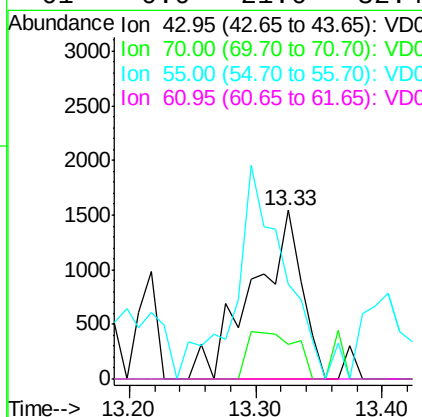
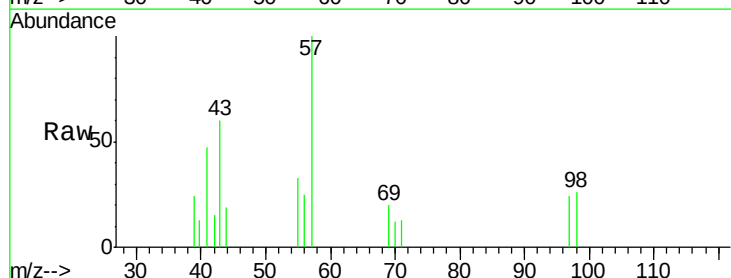
Instrument :
 MSVOA_D
 ClientSampled :

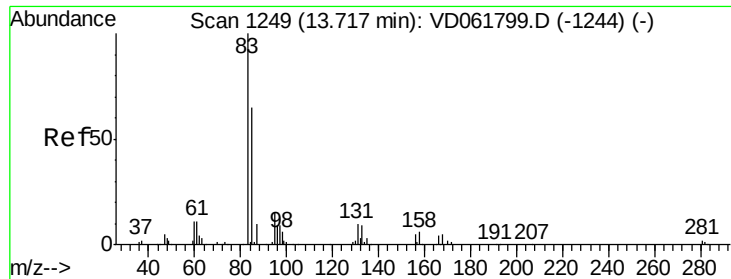
Tot Ion:152 Resp: 140589
 Ion Ratio Lower Upper
 152 100
 115 63.1 30.9 92.7
 150 164.1 0.0 314.8



#74
 N-amyl acetate
 Concen: 1.702 ug/l
 RT: 13.33 min Scan# 1209
 Delta R.T. 0.04 min
 Lab File: VD061861.D
 Acq: 17 Apr 2019 19:11

Tgt Ion: 43 Resp: 4172
 Ion Ratio Lower Upper
 43 100
 70 20.8 24.2 36.4#
 55 55.9 16.0 24.0#
 61 0.0 21.6 32.4#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.225 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

Instrument :

MSVOA_D

ClientSampleId :

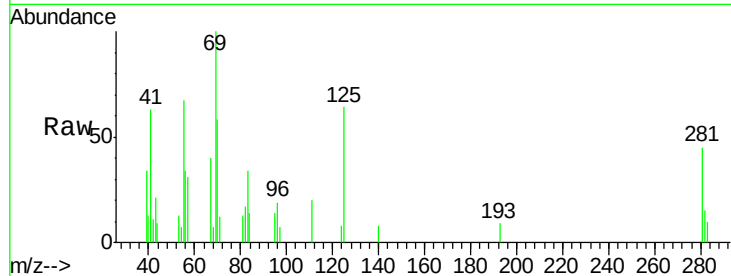
Tot Ion: 83 Resp: 2208

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

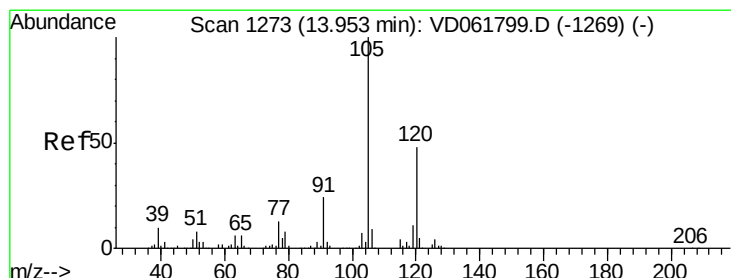
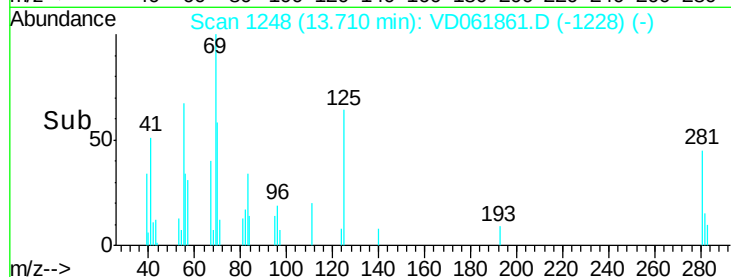
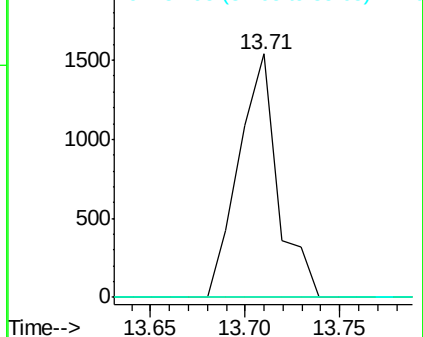
85 0.0 32.6 97.7#



Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V



#80

1,3,5-Trimethylbenzene

Concen: 4.806 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VD061861.D

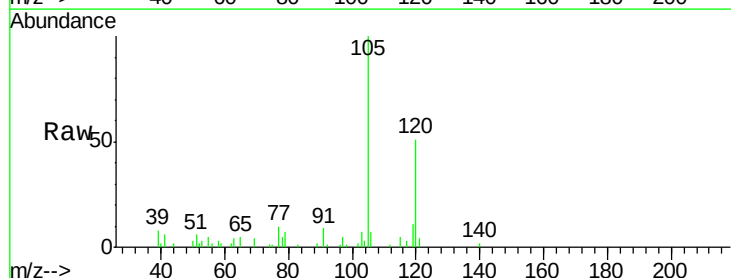
Acq: 17 Apr 2019 19:11

Tgt Ion:105 Resp: 34766

Ion Ratio Lower Upper

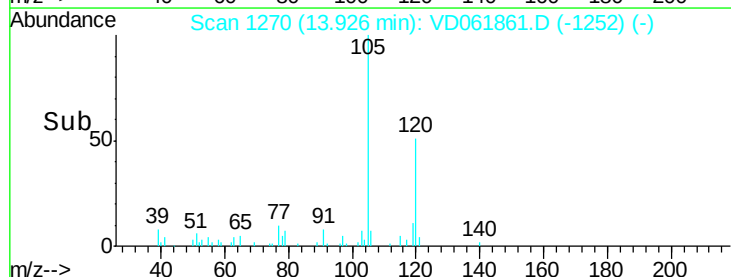
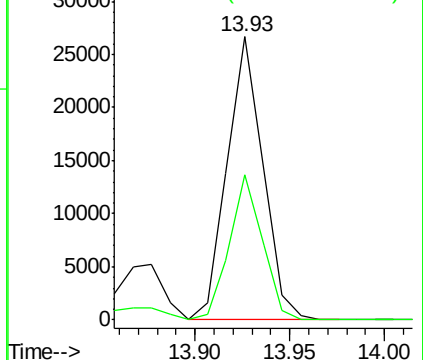
105 100

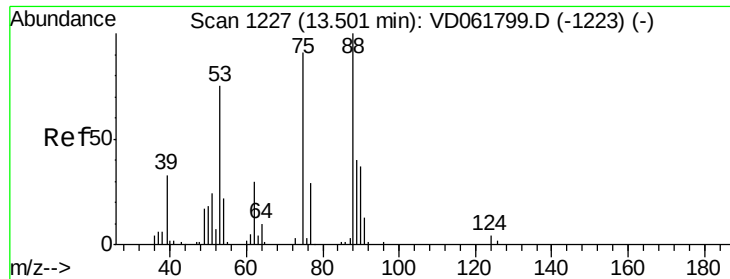
120 51.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 85.399 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.04 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

Instrument :

MSVOA_D

ClientSampleId :

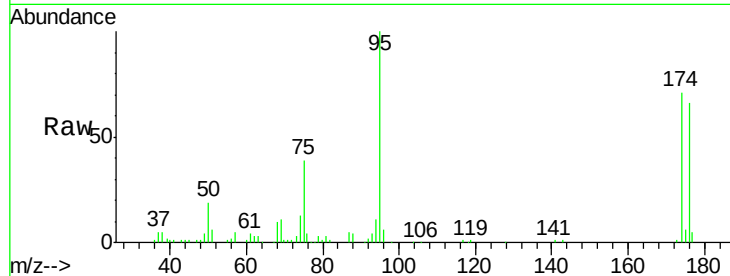
Tot Ion: 75 Resp: 52613

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

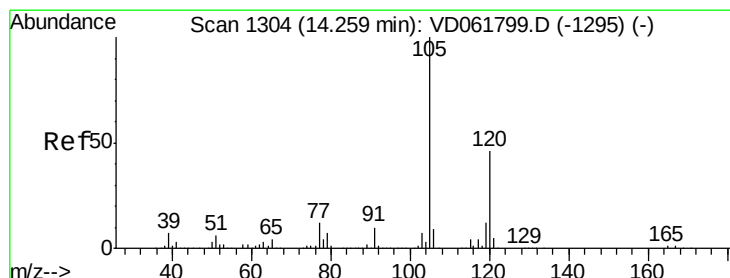
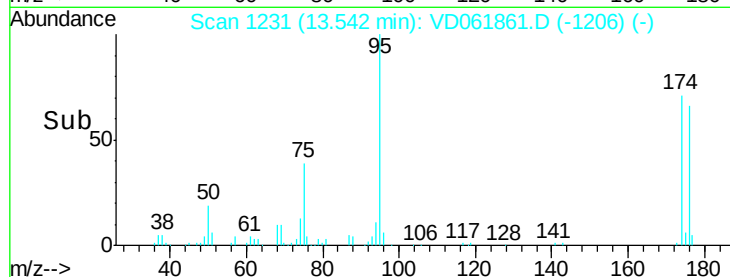
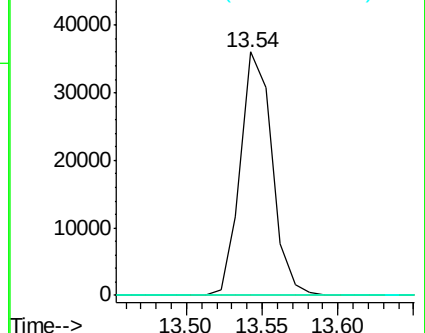
89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#84

1,2,4-Trimethylbenzene

Concen: 6.104 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.03 min

Lab File: VD061861.D

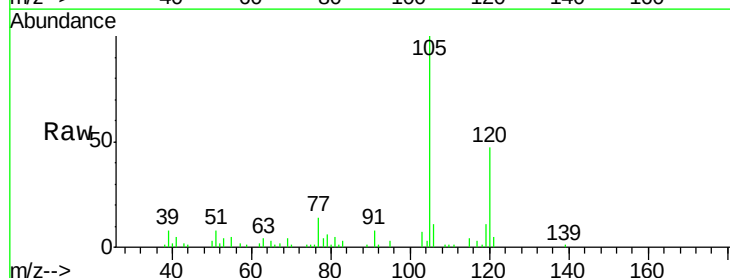
Acq: 17 Apr 2019 19:11

Tgt Ion:105 Resp: 44391

Ion Ratio Lower Upper

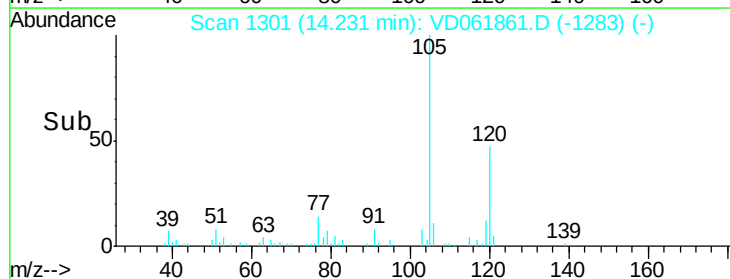
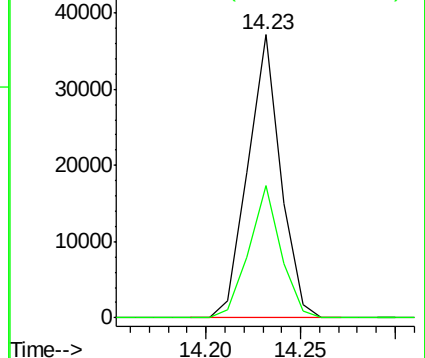
105 100

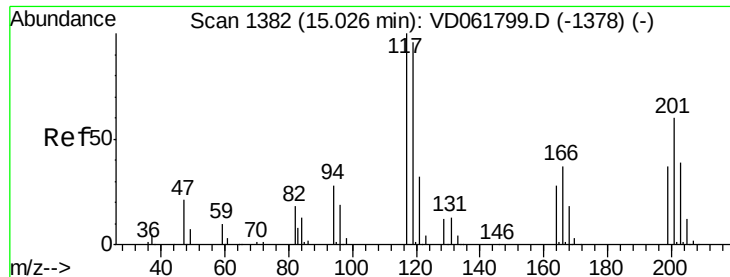
120 46.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#90

Hexachloroethane

Concen: 1.729 ug/l

RT: 15.05 min Scan# 1384

Delta R.T. 0.02 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

Instrument :

MSVOA_D

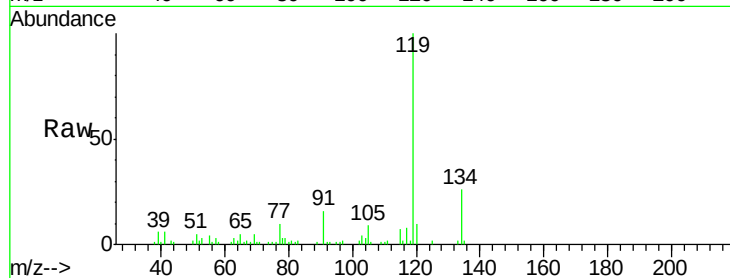
ClientSampleId :

Tot Ion:117 Resp: 3871

Ion Ratio Lower Upper

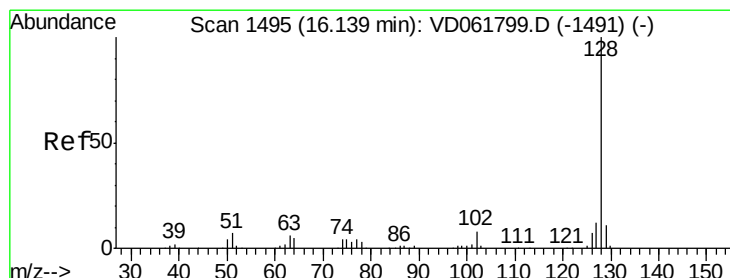
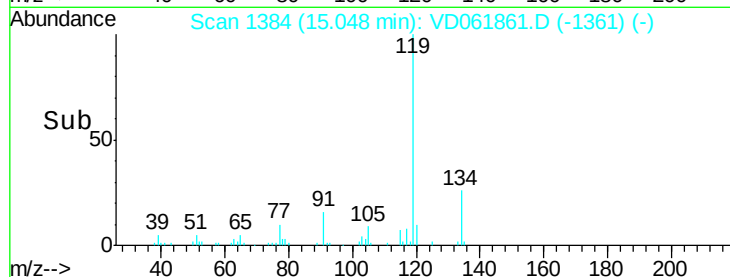
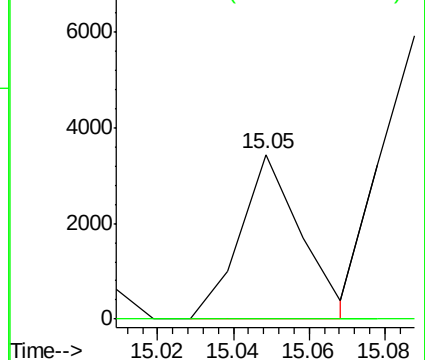
117 100

201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 3.540 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.02 min

Lab File: VD061861.D

Acq: 17 Apr 2019 19:11

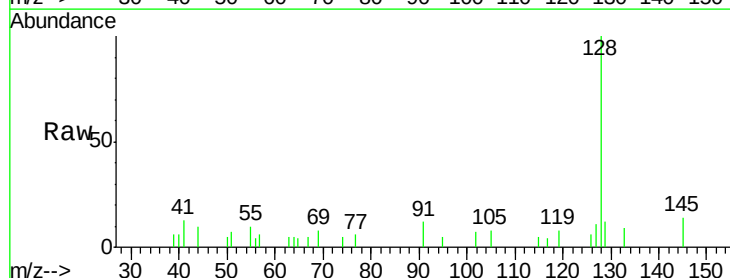
Tgt Ion:128 Resp: 11286

Ion Ratio Lower Upper

128 100

127 10.8 9.8 14.8

129 11.7 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

