

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058018.D
 Acq On : 8 Jun 2018 15:20
 Operator : VA/AP
 Sample : J3320-04RE
 Misc : 6.87g/5ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 08 23:56:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	454032	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.69	114	640445	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	575058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	311371	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	324729	71.54	ug/l	-0.02
Spiked Amount						
			Recovery	=	143.08%	
35) Dibromofluoromethane	5.54	113	302781	61.10	ug/l	-0.02
Spiked Amount						
			Recovery	=	122.20%	
50) Toluene-d8	8.69	98	661159	56.12	ug/l	-0.02
Spiked Amount						
			Recovery	=	112.24%	
62) 4-Bromofluorobenzene	11.92	95	289398	56.31	ug/l	0.00
Spiked Amount						
			Recovery	=	112.62%	

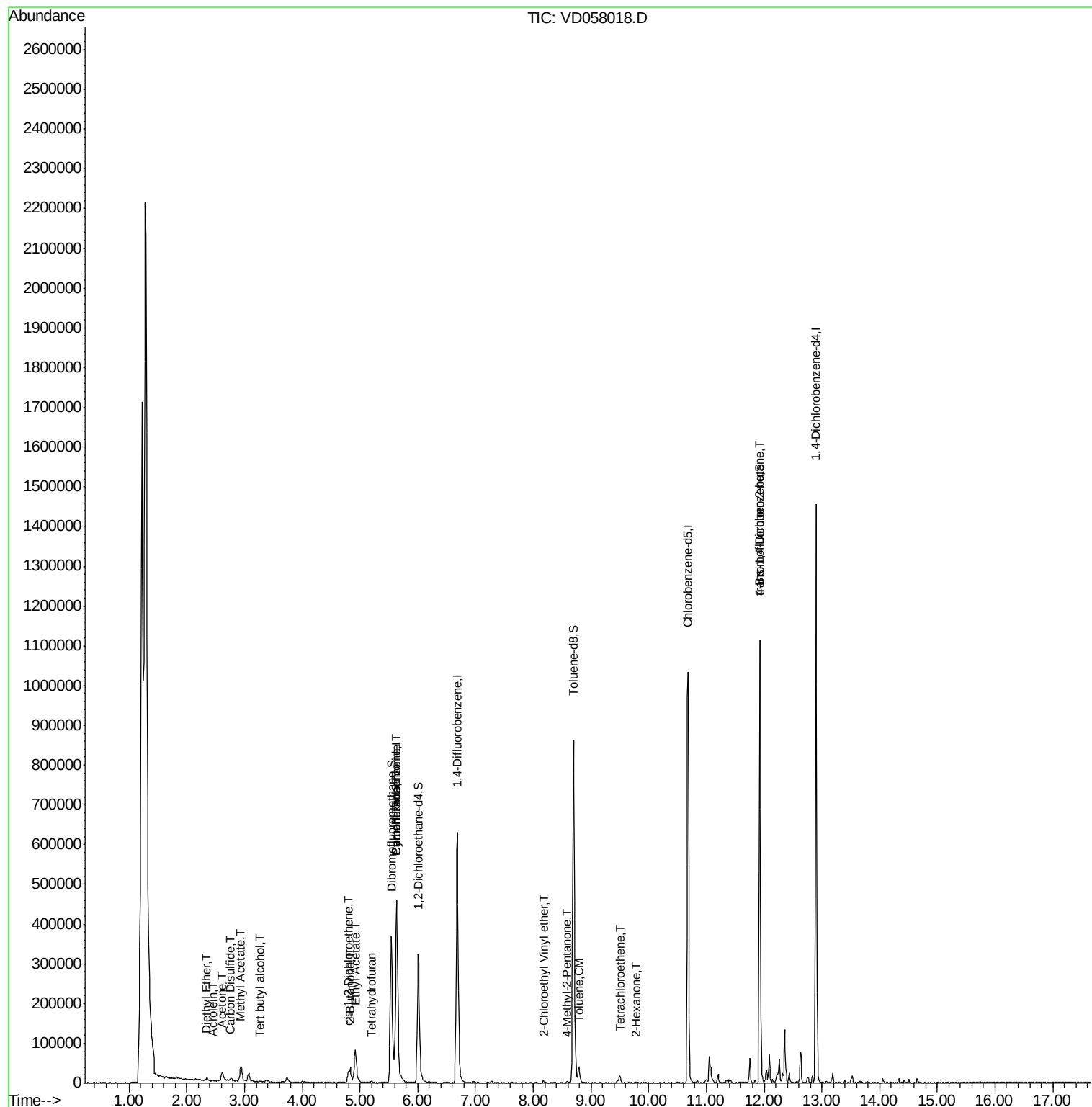
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.34	74	1914	2.595	ug/l	70
11) Tert butyl alcohol	3.26	59	225	1.850	ug/l #	74
13) Acrolein	2.44	56	178	1.022	ug/l #	16
16) Acetone	2.61	43	50490	77.205	ug/l	94
17) Carbon Disulfide	2.76	76	9328	1.414	ug/l	97
18) Methyl Acetate	2.93	43	72557	57.353	ug/l	96
20) Methylene Chloride	3.07	84	8774	Below Cal	#	84
25) 2-Butanone	4.83	43	22702	15.275	ug/l #	86
27) cis-1,2-Dichloroethene	4.80	96	12926	2.687	ug/l	87
29) Tetrahydrofuran	5.20	42	1961	2.517	ug/l #	58
31) Cyclohexane	5.63	56	12952	1.641	ug/l #	1
37) Ethyl Acetate	4.92	43	165696	43.037	ug/l	96
38) Carbon Tetrachloride	5.63	117	38014	5.467	ug/l #	15
51) 4-Methyl-2-Pentanone	8.60	43	3821	1.181	ug/l #	72
52) Toluene	8.79	92	18957	2.004	ug/l	87
58) 2-Chloroethyl Vinyl ether	8.18	63	3442	1.814	ug/l #	52
59) 2-Hexanone	9.79	43	2950	1.244	ug/l	76
64) Tetrachloroethene	9.50	164	6047	1.176	ug/l #	69
81) trans-1,4-Dichloro-2-buten	11.92	75	136629	117.938	ug/l #	6
82) 4-Chlorotoluene	12.32	91	7052	Below Cal		93
89) n-Butylbenzene	13.18	91	5398	Below Cal		87

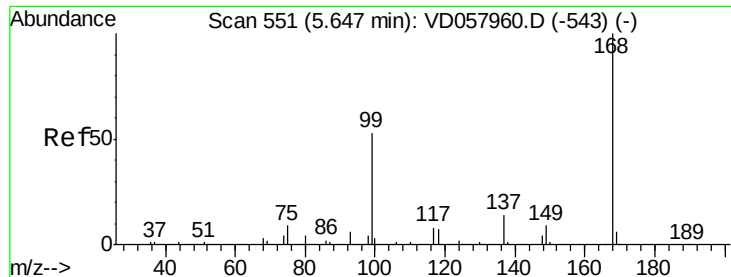
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.02 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

Instrument :

MSVOA_D

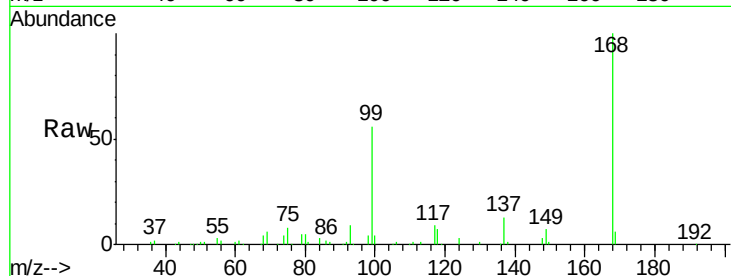
ClientSampled :

Tot Ion:168 Resp: 454032

Ion Ratio Lower Upper

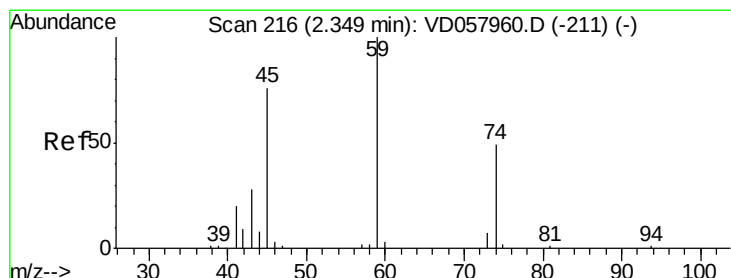
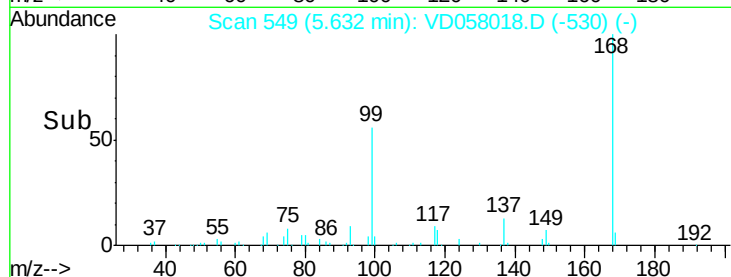
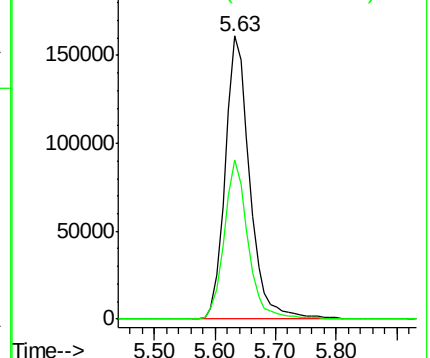
168 100

99 56.3 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 2.595 ug/l

RT: 2.34 min Scan# 215

Delta R.T. -0.01 min

Lab File: VD058018.D

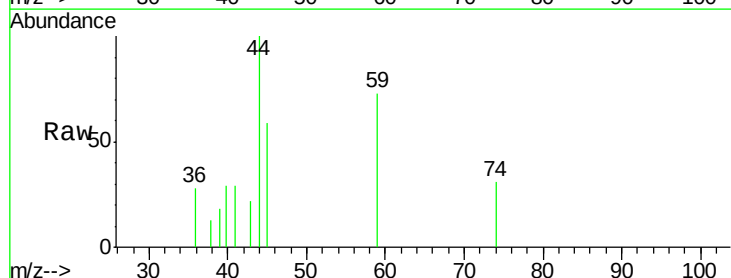
Acq: 8 Jun 2018 15:20

Tgt Ion: 74 Resp: 1914

Ion Ratio Lower Upper

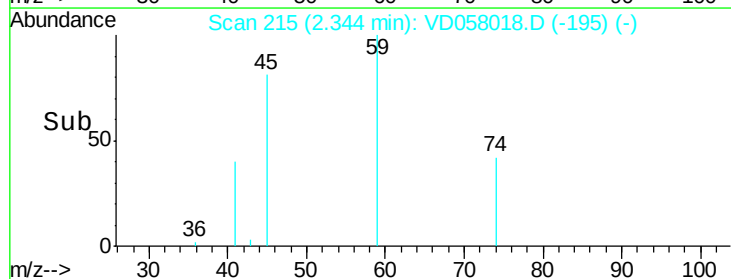
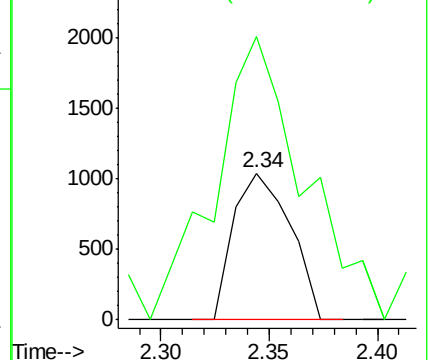
74 100

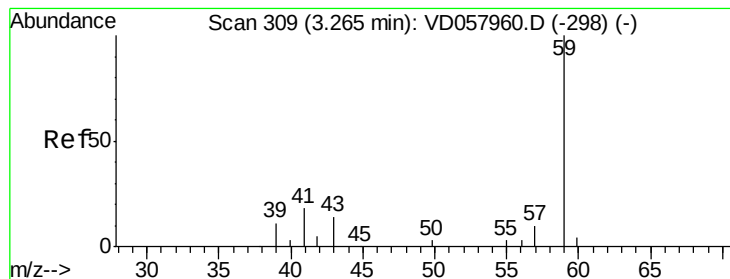
45 192.9 77.1 231.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



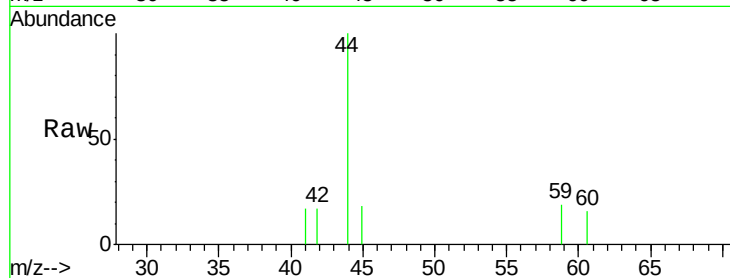


#11

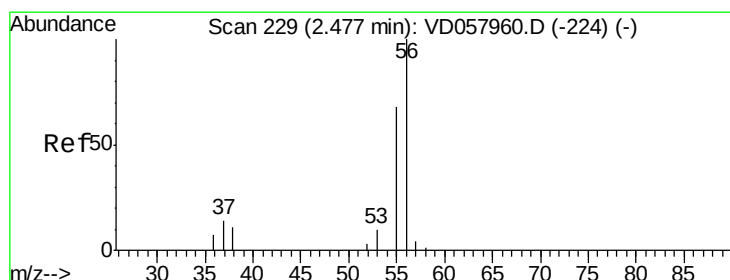
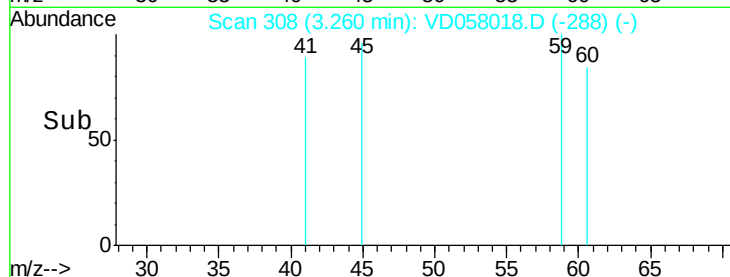
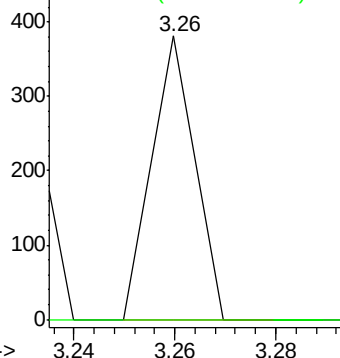
Tert butyl alcohol
 Concen: 1.850 ug/l
 RT: 3.26 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: VD058018.D
 Acq: 8 Jun 2018 15:20

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 59 Resp: 225
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



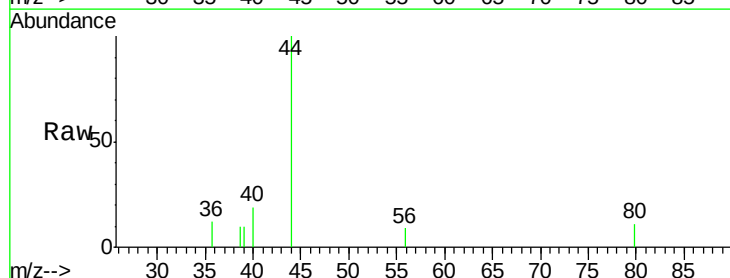
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



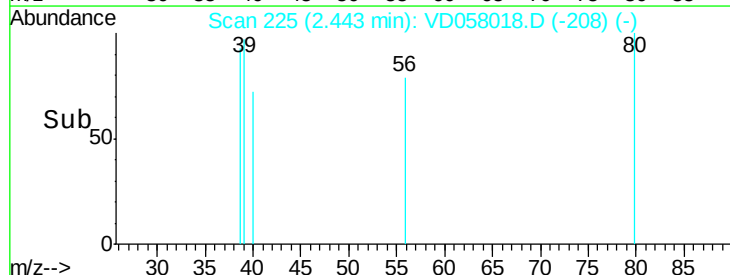
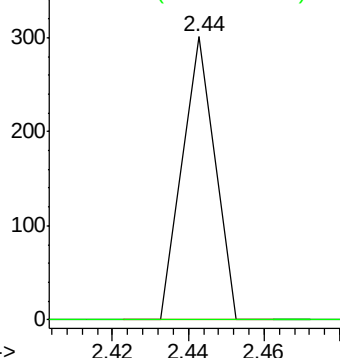
#13

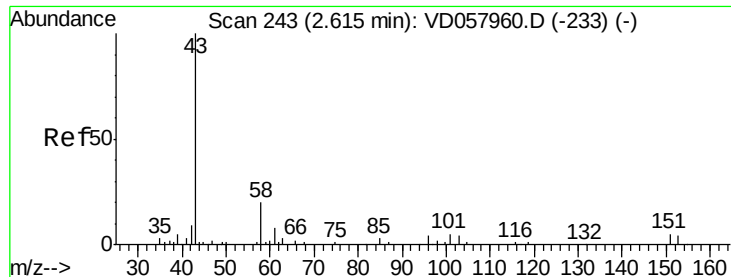
Acrolein
 Concen: 1.022 ug/l
 RT: 2.44 min Scan# 225
 Delta R.T. -0.03 min
 Lab File: VD058018.D
 Acq: 8 Jun 2018 15:20

Tgt Ion: 56 Resp: 178
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.0 81.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC
 Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 77.205 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

Instrument :

MSVOA_D

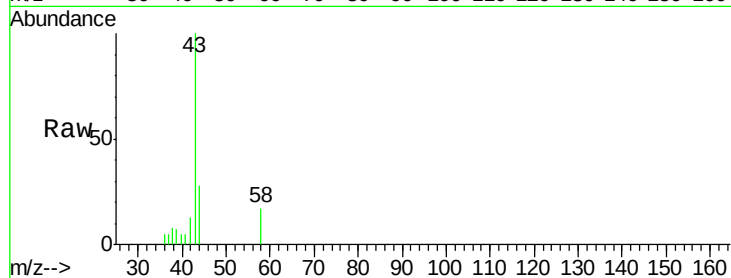
ClientSampleId :

Tot Ion: 43 Resp: 50490

Ion Ratio Lower Upper

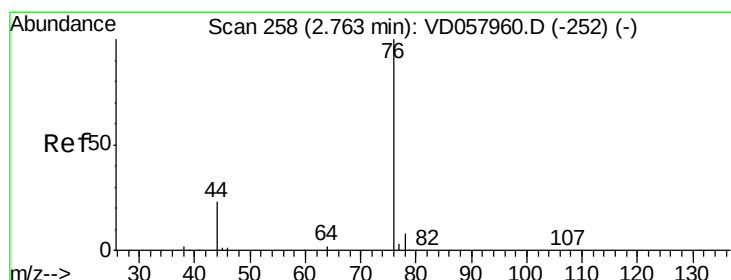
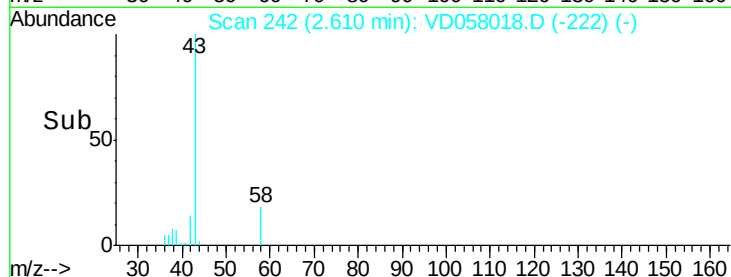
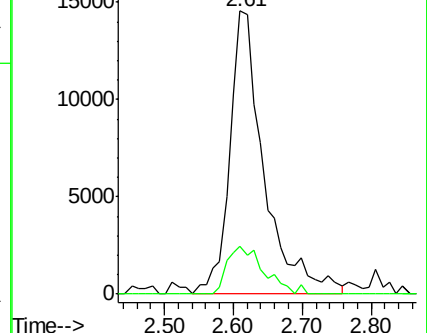
43 100

58 17.1 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 1.414 ug/l

RT: 2.76 min Scan# 257

Delta R.T. -0.01 min

Lab File: VD058018.D

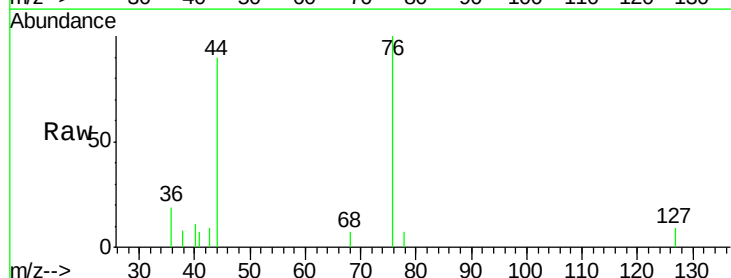
Acq: 8 Jun 2018 15:20

Tgt Ion: 76 Resp: 9328

Ion Ratio Lower Upper

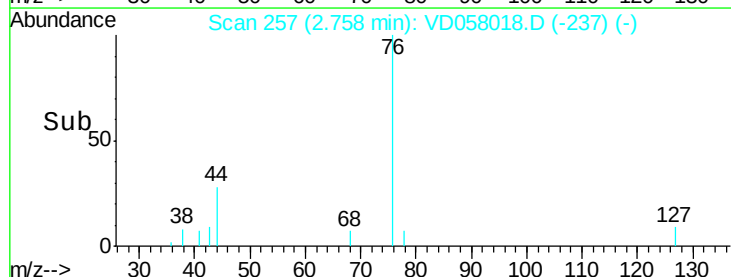
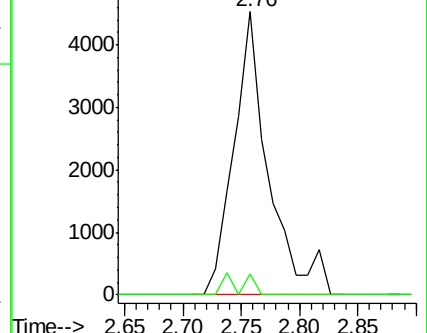
76 100

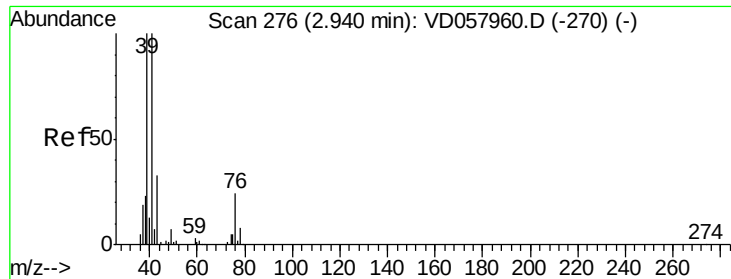
78 7.2 6.7 10.1



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

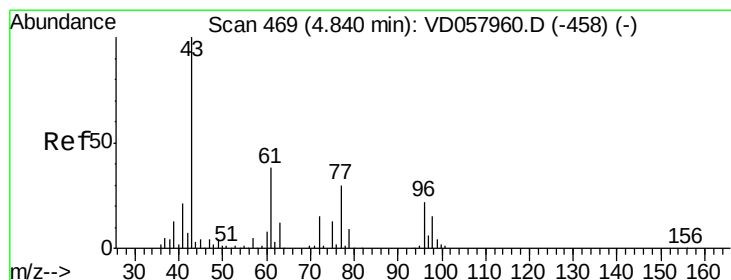
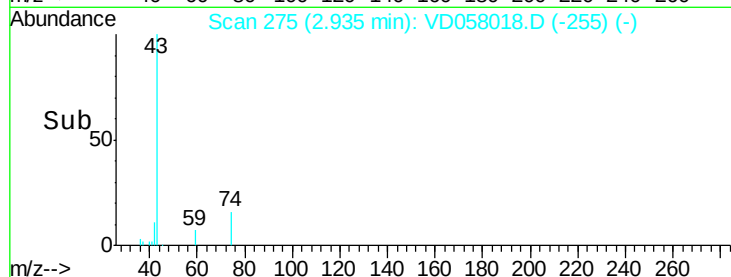
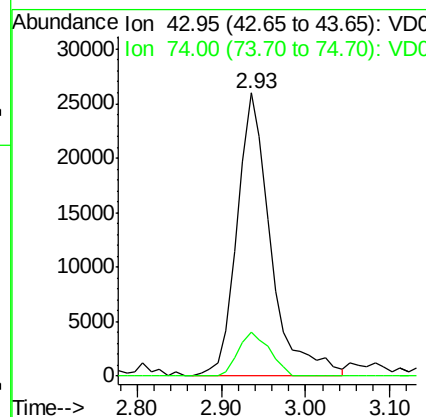
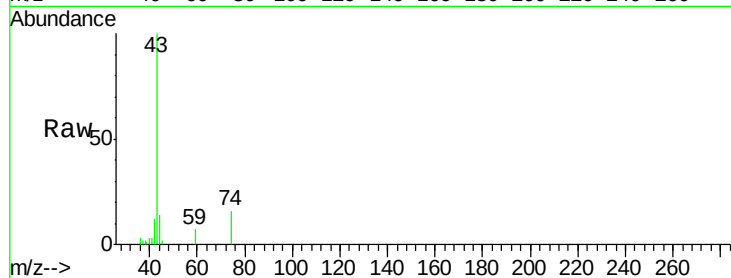




#18
Methyl Acetate
Concen: 57.353 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.01 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

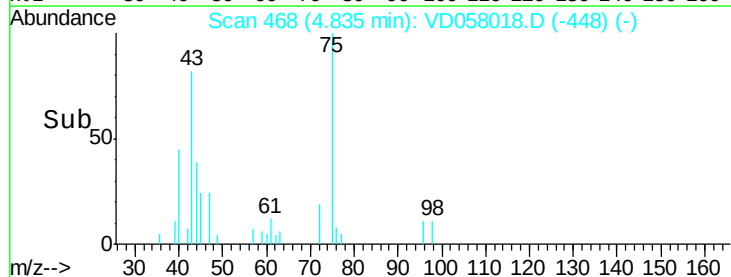
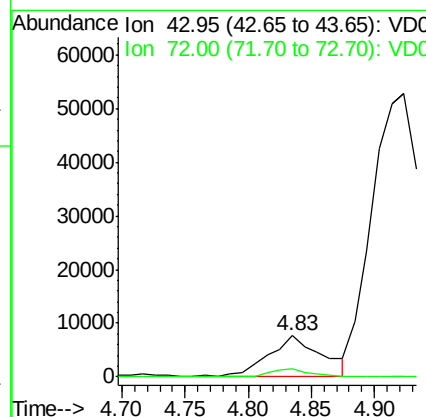
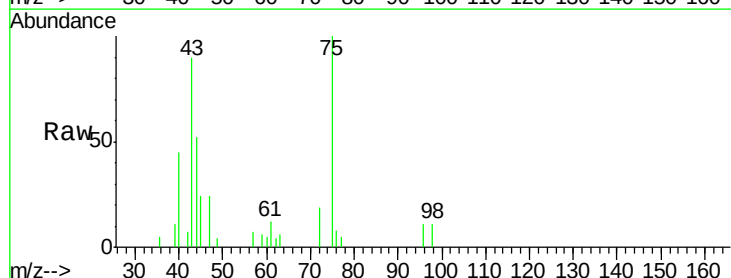
Instrument :
MSVOA_D
ClientSampled :

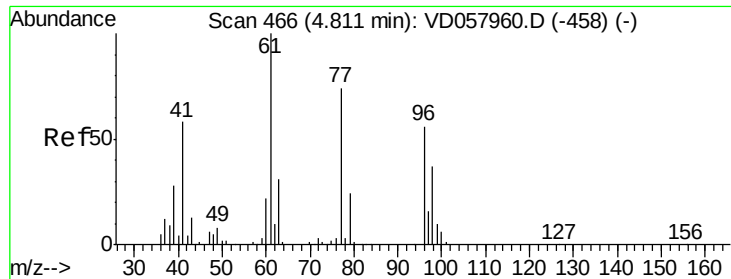
Tot Ion: 43 Resp: 72557
Ion Ratio Lower Upper
43 100
74 15.7 11.2 16.8



#25
2-Butanone
Concen: 15.275 ug/l
RT: 4.83 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Tgt Ion: 43 Resp: 22702
Ion Ratio Lower Upper
43 100
72 20.9 12.0 18.0#

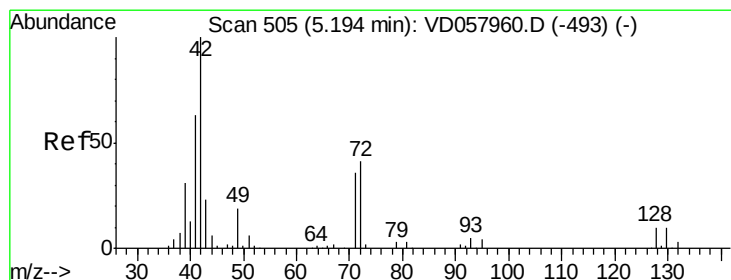
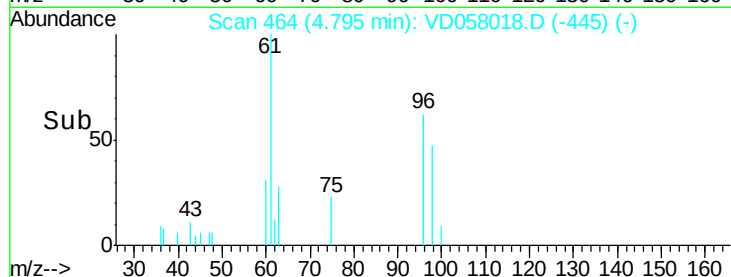
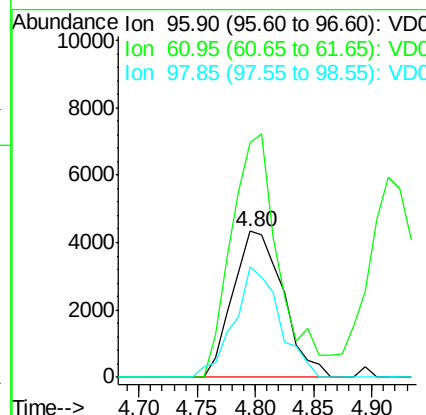
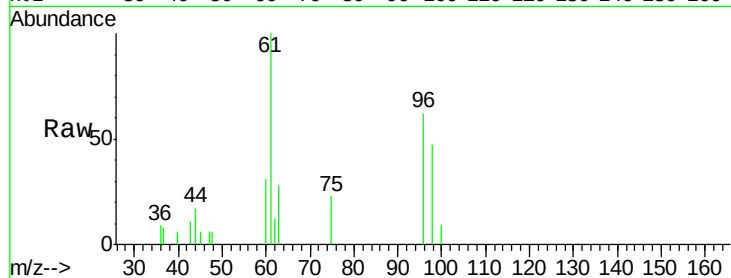




#27
 cis-1,2-Dichloroethene
 Concen: 2.687 ug/l
 RT: 4.80 min Scan# 464
 Delta R.T. -0.02 min
 Lab File: VD058018.D
 Acq: 8 Jun 2018 15:20

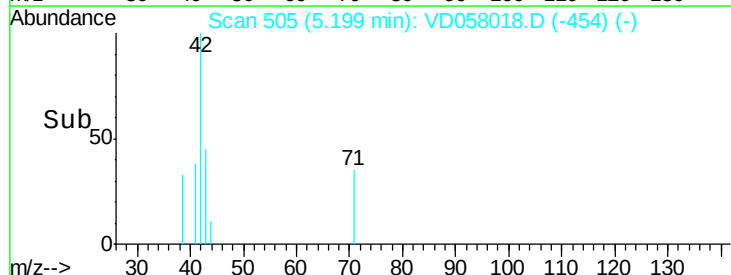
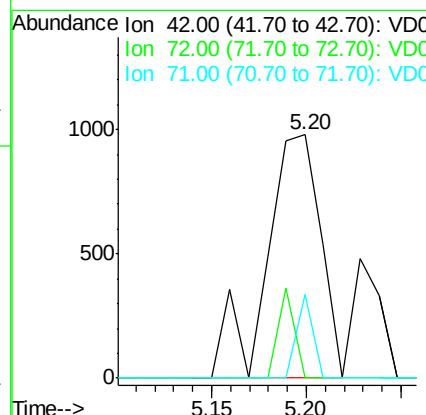
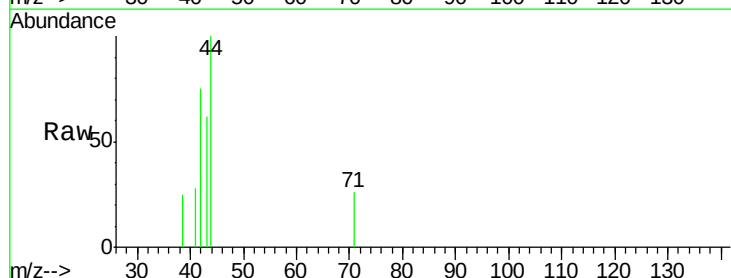
Instrument :
 MSVOA_D
 ClientSampled :

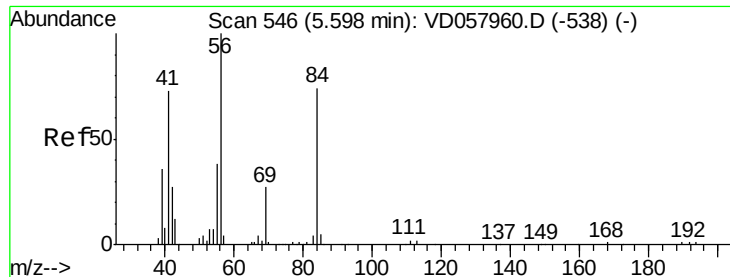
Tot Ion: 96 Resp: 12926
 Ion Ratio Lower Upper
 96 100
 61 160.5 0.0 355.0
 98 75.7 0.0 129.6



#29
 Tetrahydrofuran
 Concen: 2.517 ug/l
 RT: 5.20 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VD058018.D
 Acq: 8 Jun 2018 15:20

Tgt Ion: 42 Resp: 1961
 Ion Ratio Lower Upper
 42 100
 72 10.9 28.5 42.7#
 71 10.2 27.9 41.9#

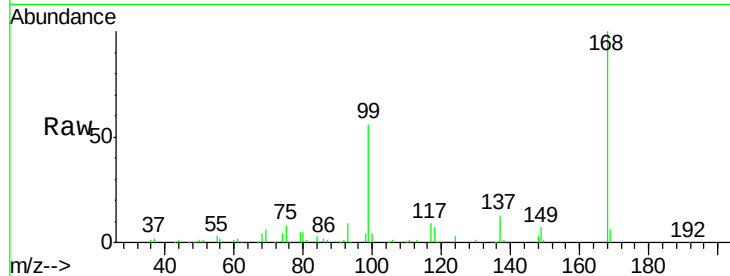




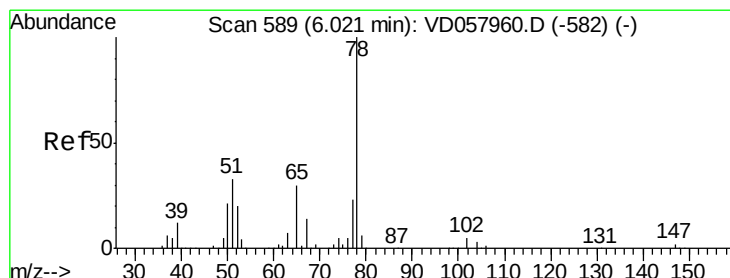
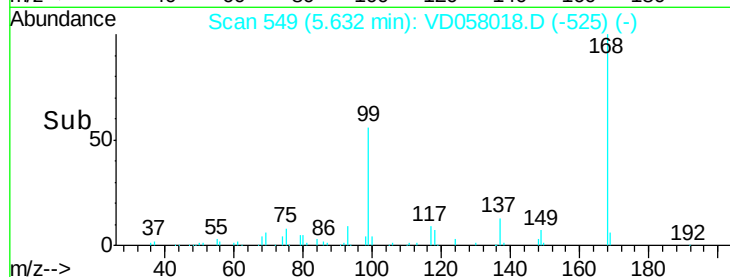
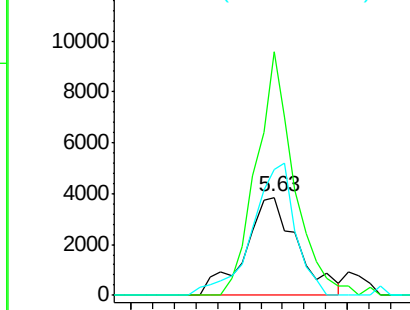
#31
Cyclohexane
Concen: 1.641 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 12952
Ion Ratio Lower Upper
56 100
69 249.3 21.5 32.3#
84 128.5 61.0 91.6#

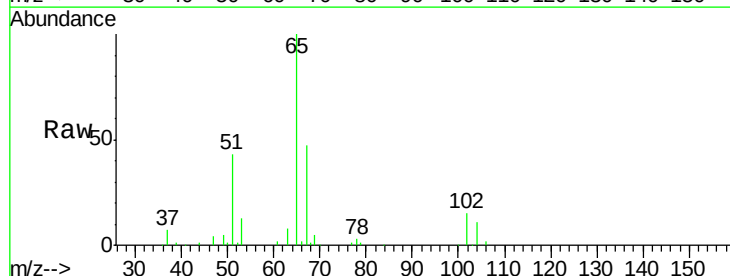


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

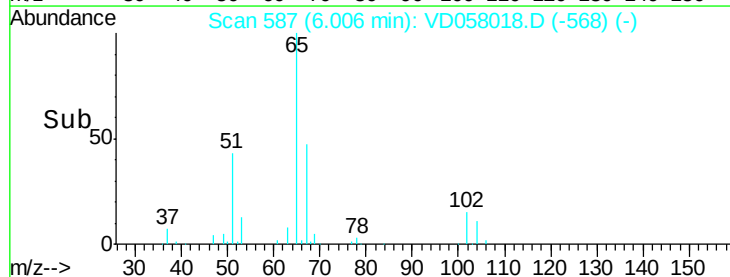
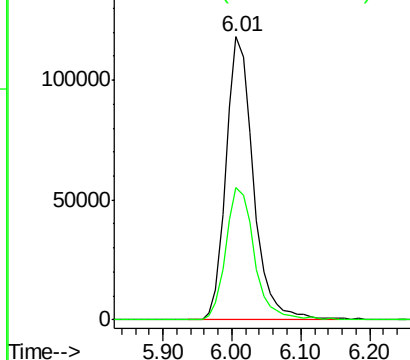


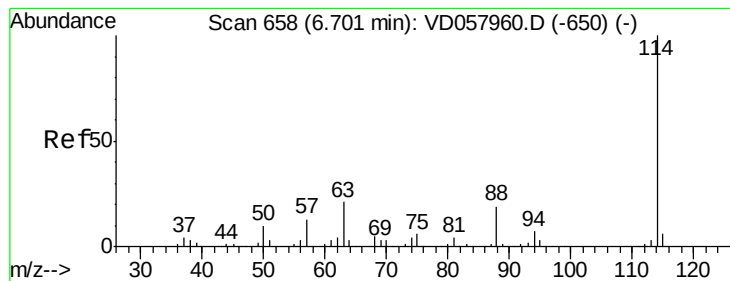
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.01 min Scan# 587
Delta R.T. -0.02 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Tgt Ion: 65 Resp: 324729
Ion Ratio Lower Upper
65 100
67 46.9 0.0 94.0



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: 6.69 min Scan# 656

Delta R.T. -0.02 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

Instrument :

MSVOA_D

ClientSampleId :

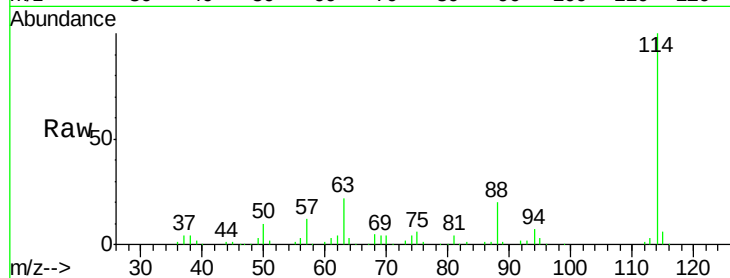
Tot Ion:114 Resp: 640445

Ion Ratio Lower Upper

114 100

63 22.4 0.0 42.8

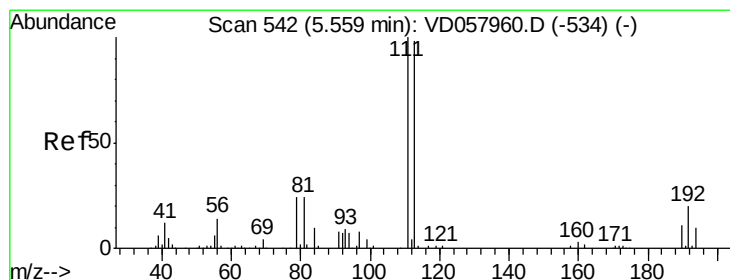
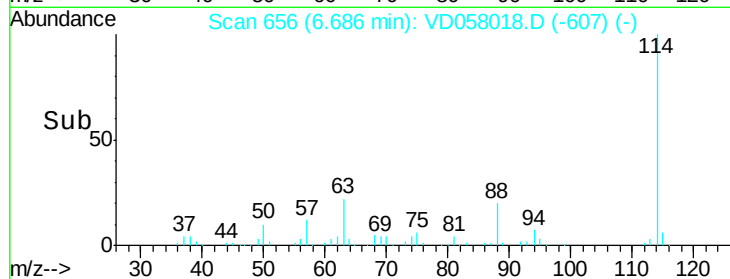
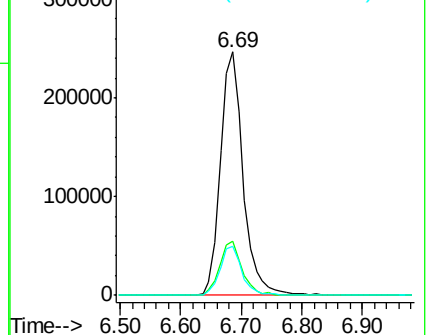
88 20.1 0.0 37.8



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: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

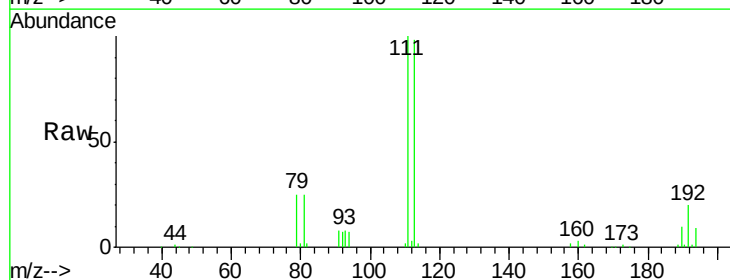
Tgt Ion:113 Resp: 302781

Ion Ratio Lower Upper

113 100

111 102.1 81.5 122.3

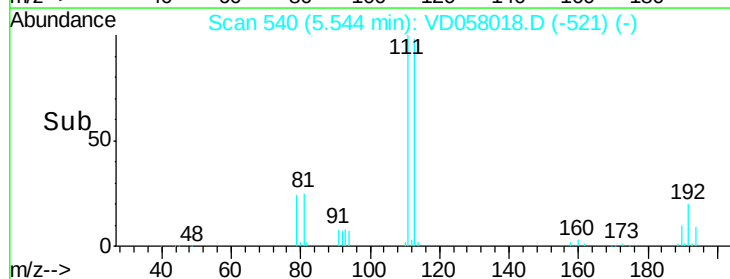
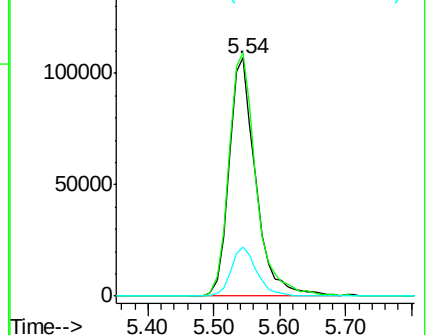
192 20.4 16.4 24.6

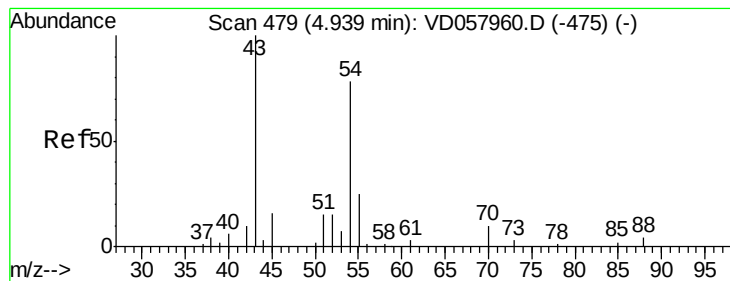


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#37

Ethyl Acetate

Concen: 43.037 ug/l

RT: 4.92 min Scan# 477

Delta R.T. -0.02 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

Instrument :

MSVOA_D

ClientSampleId :

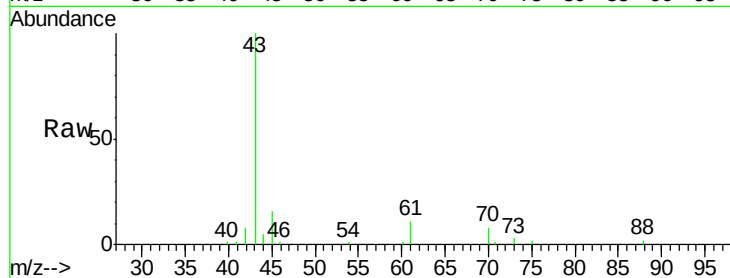
Tot Ion: 43 Resp: 165696

Ion Ratio Lower Upper

43 100

61 10.6 9.9 14.9

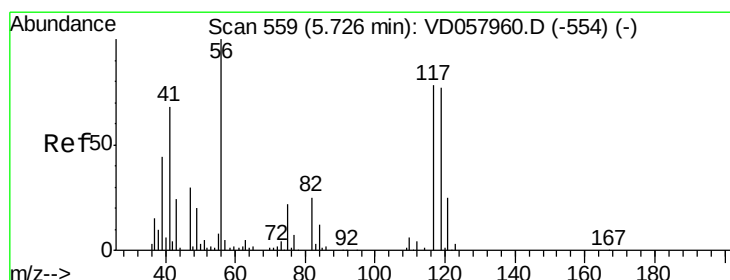
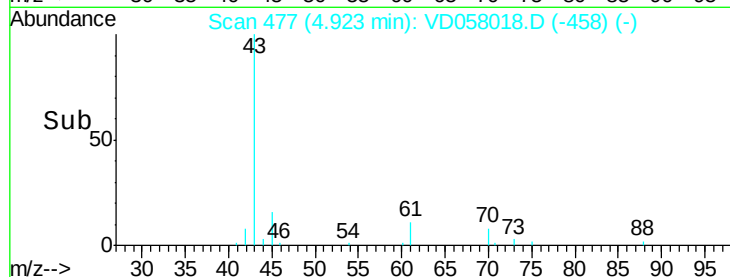
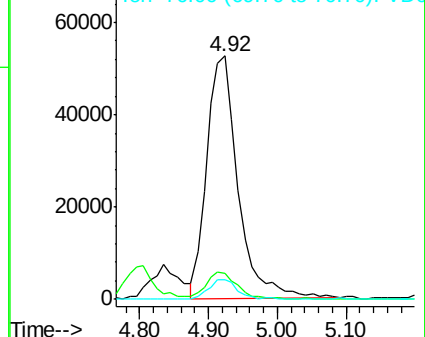
70 8.2 5.7 8.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 5.467 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.09 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

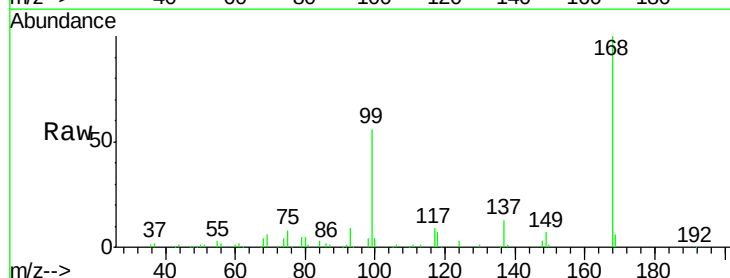
Tgt Ion: 117 Resp: 38014

Ion Ratio Lower Upper

117 100

119 3.7 76.1 114.1#

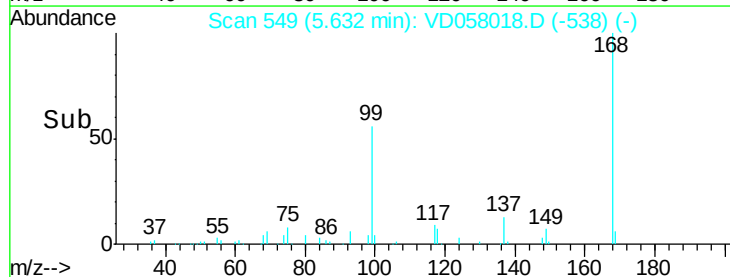
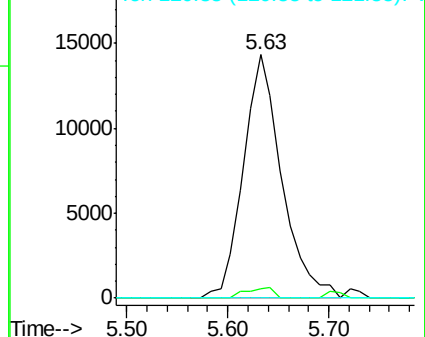
121 0.0 24.9 37.3#

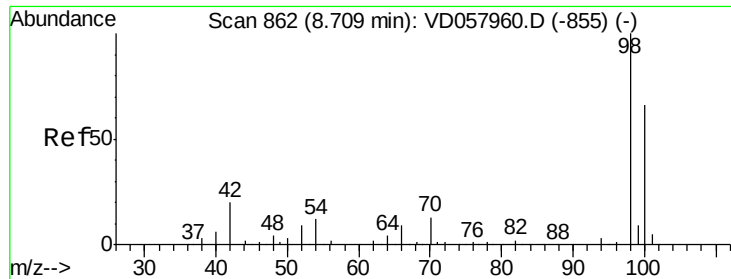


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

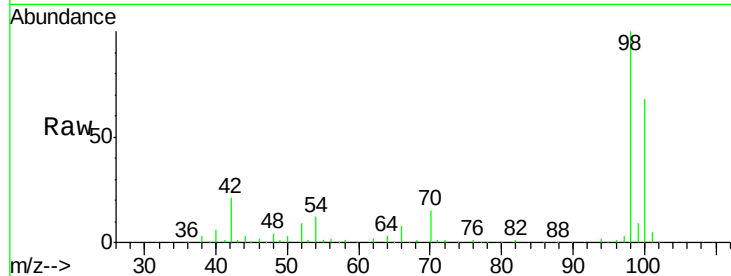




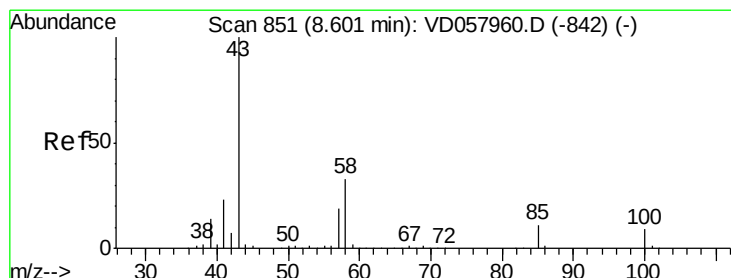
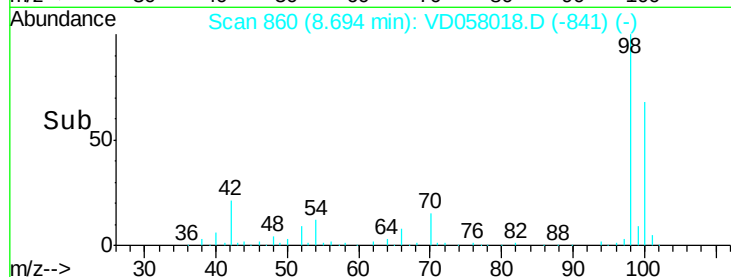
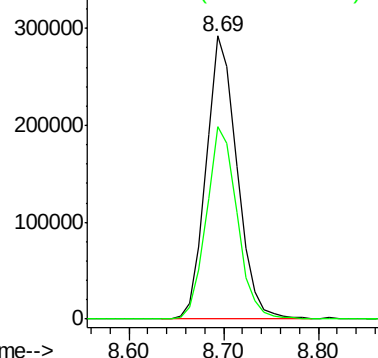
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.69 min Scan# 860
Delta R.T. -0.02 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 661159
Ion Ratio Lower Upper
98 100
100 68.0 53.4 80.0

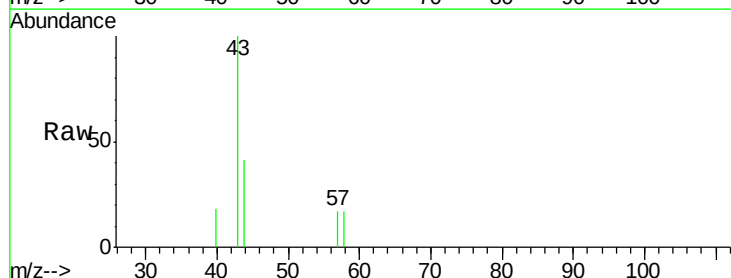


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

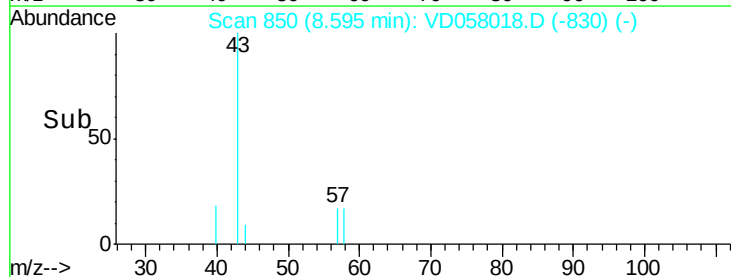
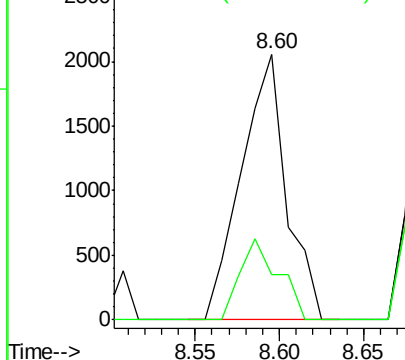


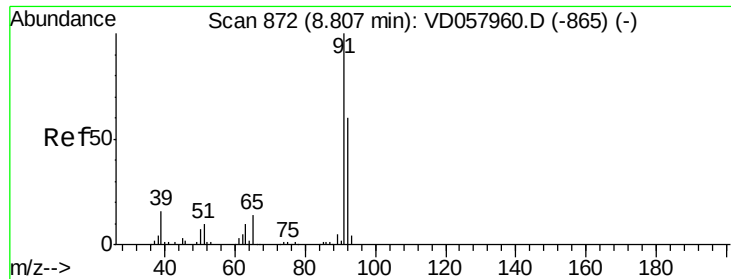
#51
4-Methyl-2-Pentanone
Concen: 1.181 ug/l
RT: 8.60 min Scan# 850
Delta R.T. -0.01 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Tgt Ion: 43 Resp: 3821
Ion Ratio Lower Upper
43 100
58 17.2 26.2 39.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 2.004 ug/l

RT: 8.79 min Scan# 870

Delta R.T. -0.02 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

Instrument :

MSVOA_D

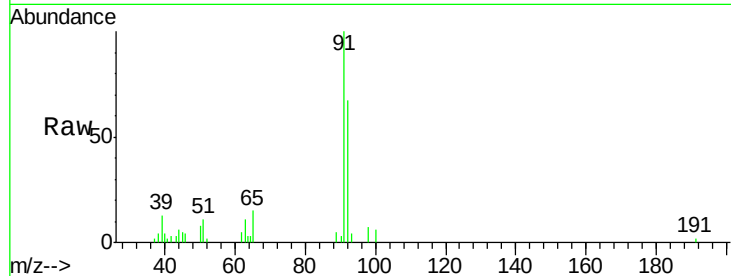
ClientSampled :

Tot Ion: 92 Resp: 18957

Ion Ratio Lower Upper

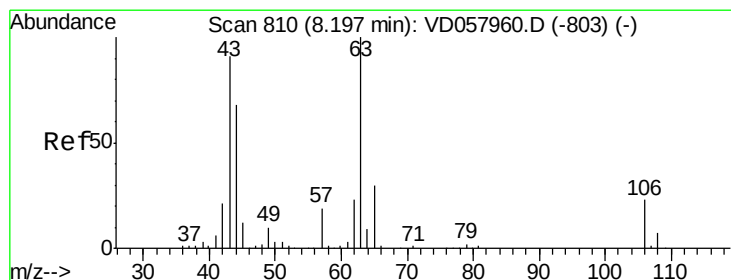
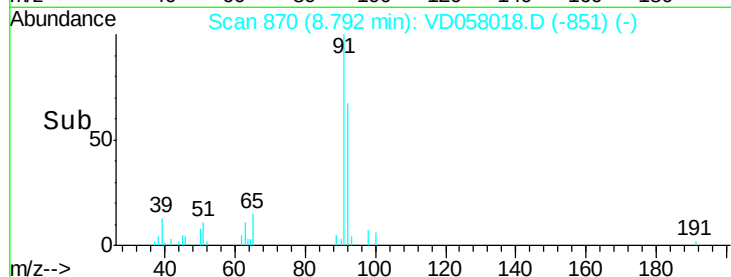
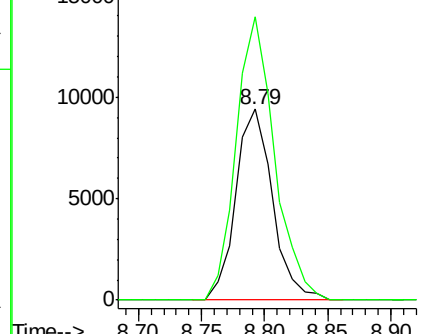
92 100

91 148.3 133.0 199.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 1.814 ug/l

RT: 8.18 min Scan# 808

Delta R.T. -0.02 min

Lab File: VD058018.D

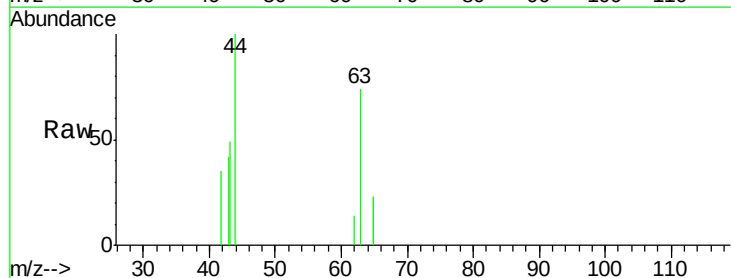
Acq: 8 Jun 2018 15:20

Tgt Ion: 63 Resp: 3442

Ion Ratio Lower Upper

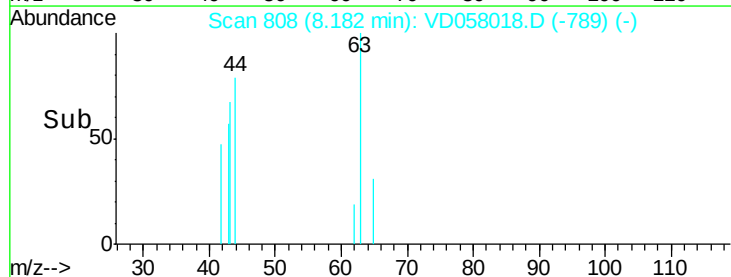
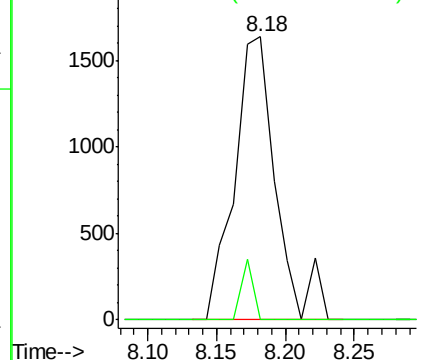
63 100

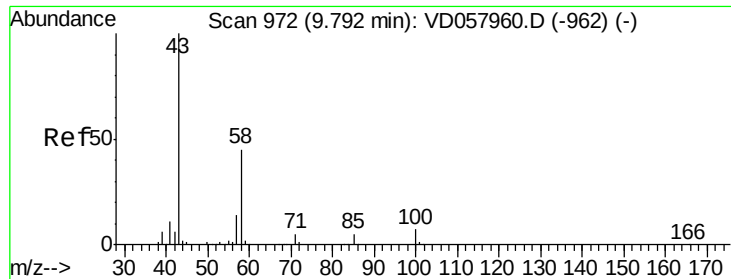
106 0.0 18.7 28.1#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

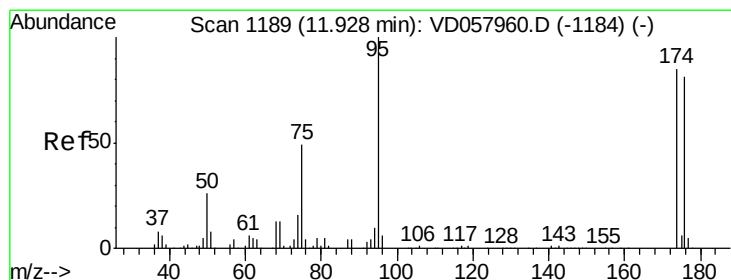
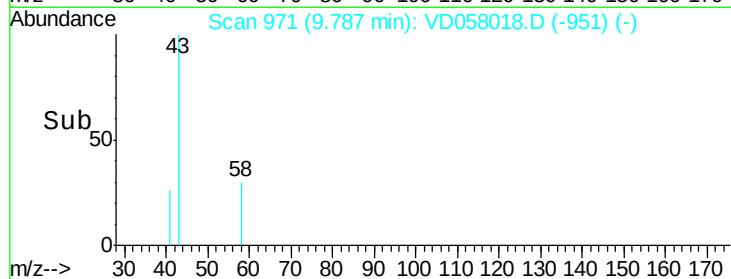
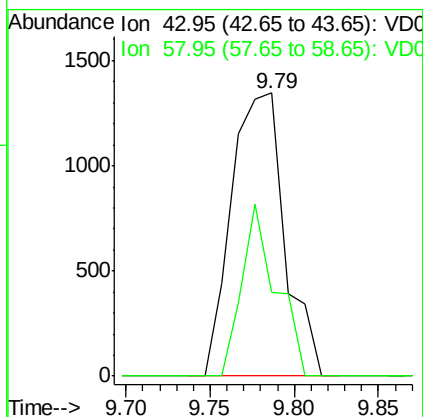
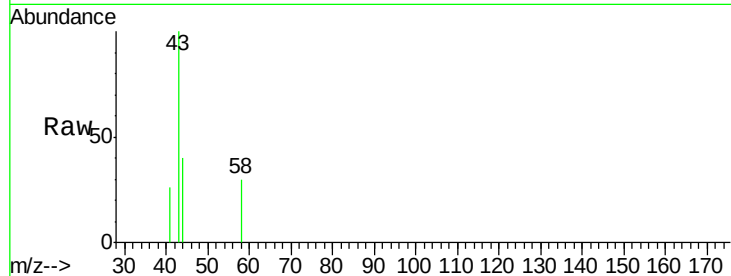




#59
2-Hexanone
Concen: 1.244 ug/l
RT: 9.79 min Scan# 971
Delta R.T. -0.01 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

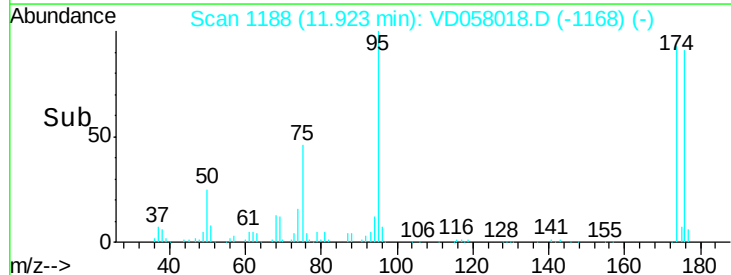
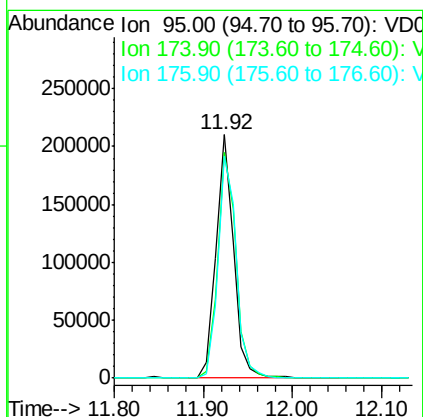
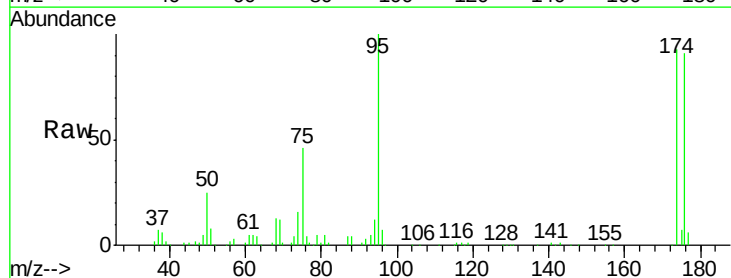
Instrument :
MSVOA_D
ClientSampled :

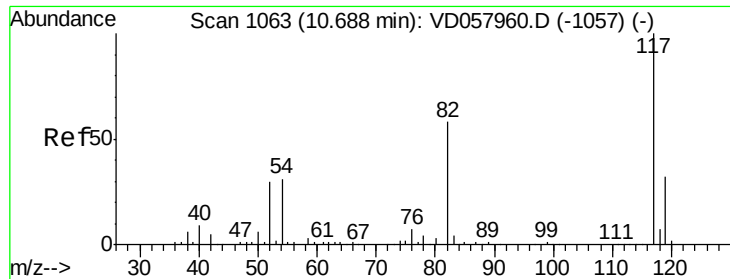
Tot Ion: 43 Resp: 2950
Ion Ratio Lower Upper
43 100
58 29.6 22.5 67.5



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Tgt Ion: 95 Resp: 289398
Ion Ratio Lower Upper
95 100
174 92.8 0.0 169.4
176 91.2 0.0 162.6

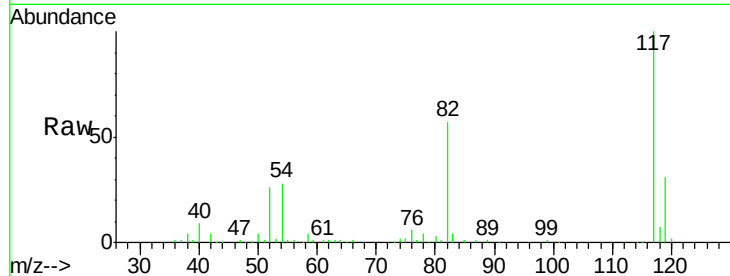




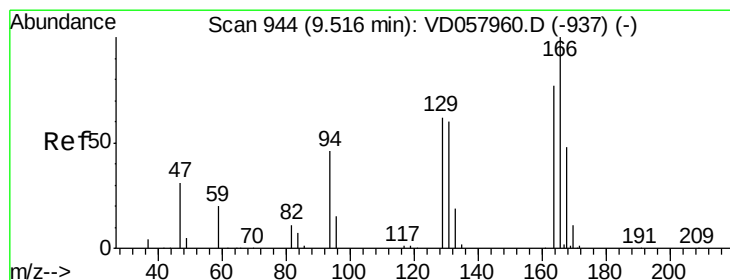
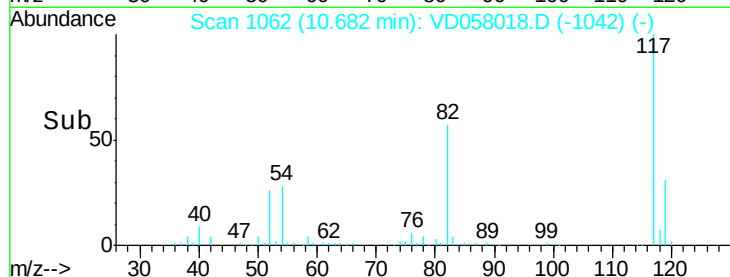
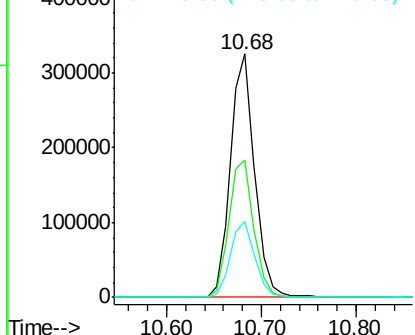
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 575058
Ion Ratio Lower Upper
117 100
82 56.5 46.8 70.2
119 30.9 25.8 38.6

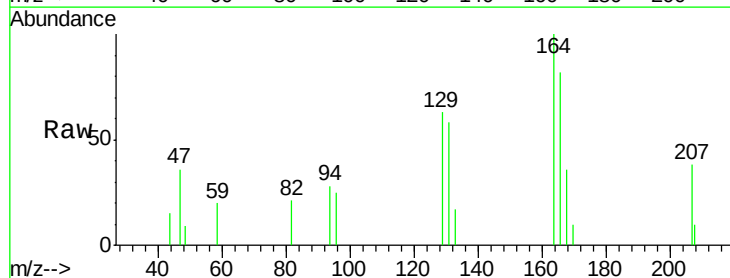


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

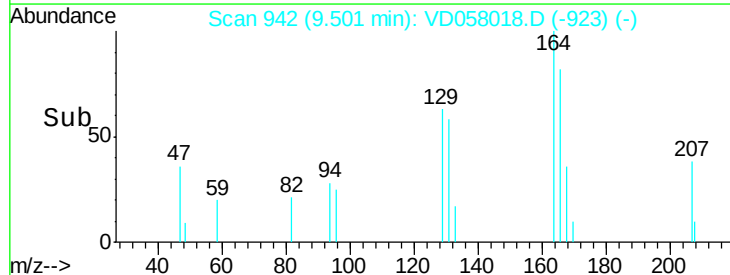
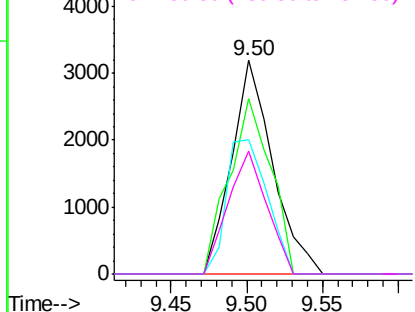


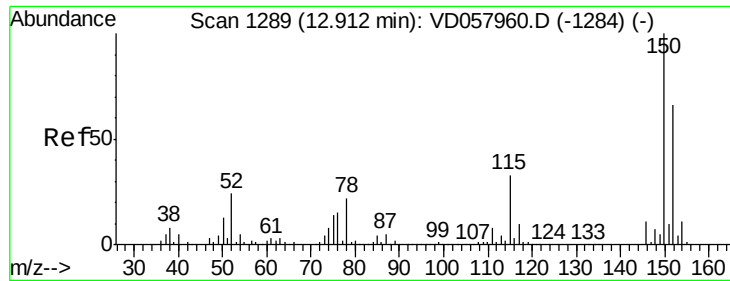
#64
Tetrachloroethene
Concen: 1.176 ug/l
RT: 9.50 min Scan# 942
Delta R.T. -0.02 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Tgt Ion:164 Resp: 6047
Ion Ratio Lower Upper
164 100
166 82.2 104.4 156.6#
129 62.7 65.0 97.6#
131 57.8 62.9 94.3#



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



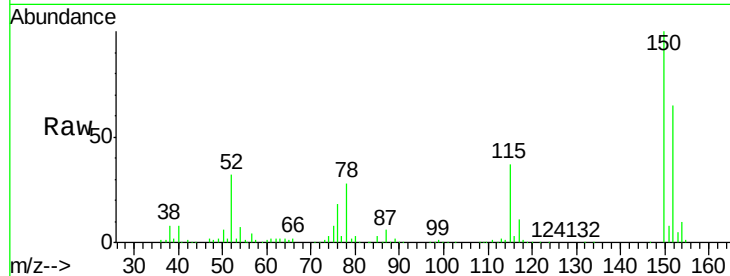


#72

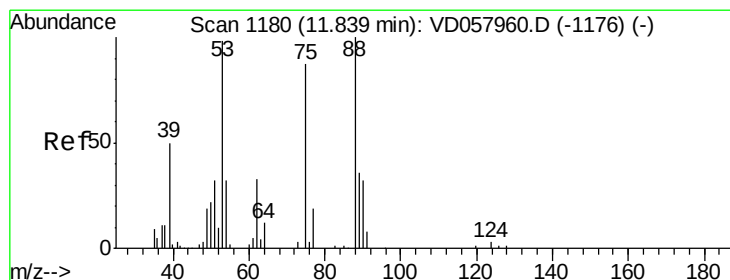
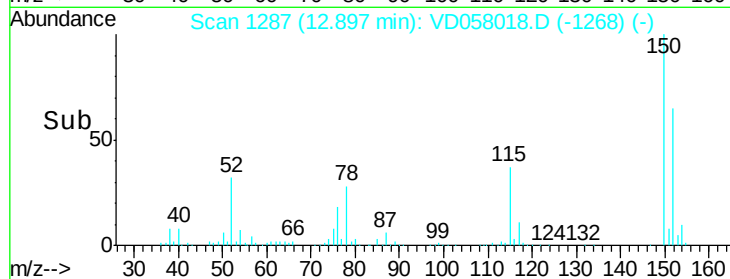
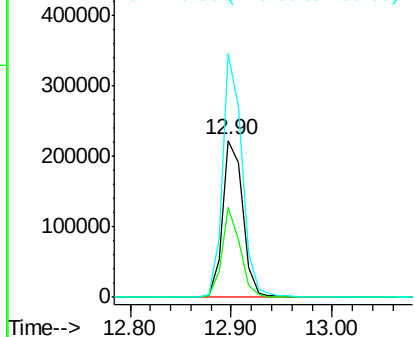
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1287
Delta R.T. -0.02 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 311371
Ion Ratio Lower Upper
152 100
115 56.9 25.6 76.6
150 155.0 0.0 306.8



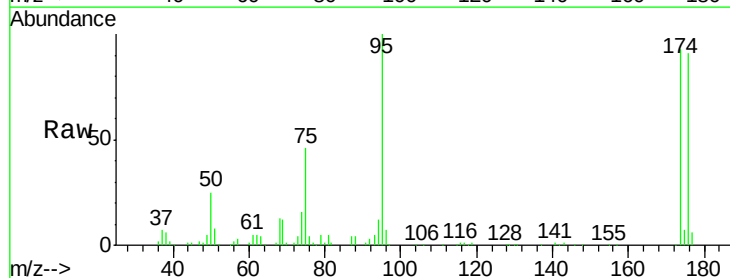
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



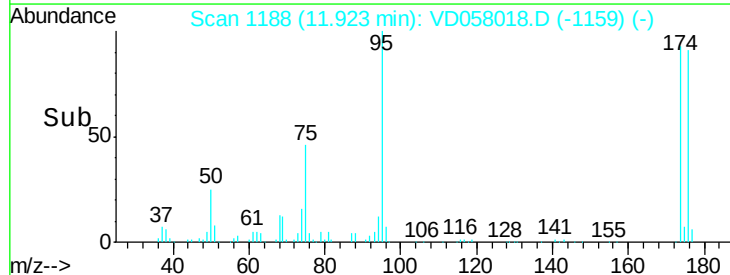
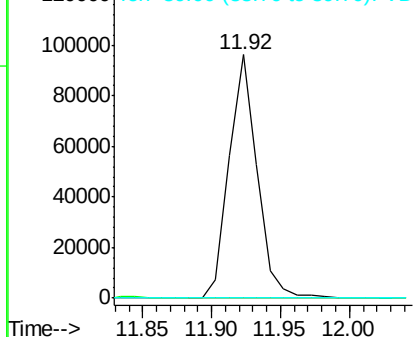
#81

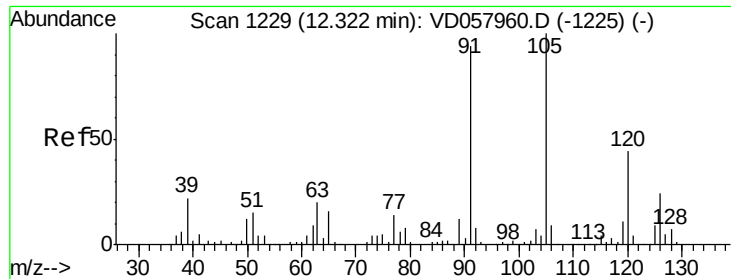
trans-1,4-Dichloro-2-butene
Concen: 117.938 ug/l
RT: 11.92 min Scan# 1188
Delta R.T. 0.08 min
Lab File: VD058018.D
Acq: 8 Jun 2018 15:20

Tgt Ion: 75 Resp: 136629
Ion Ratio Lower Upper
75 100
53 0.0 89.3 133.9#
89 0.0 33.3 49.9#



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





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

Instrument :

MSVOA_D

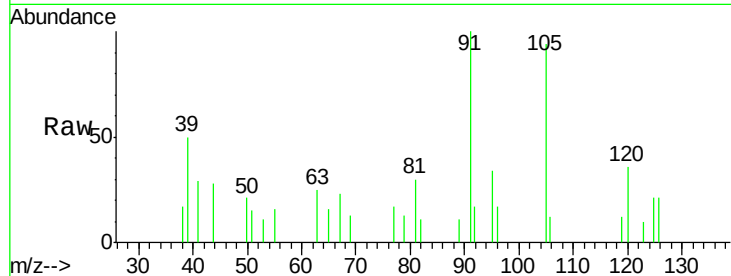
ClientSampleId :

Tot Ion: 91 Resp: 7052

Ion Ratio Lower Upper

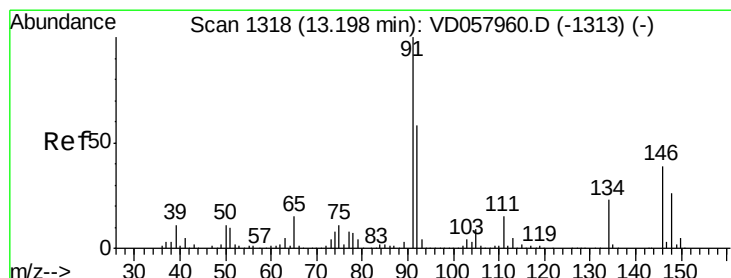
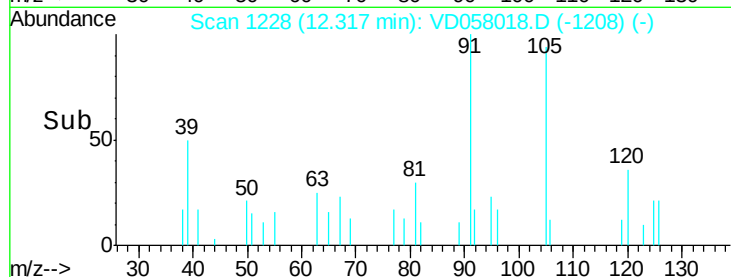
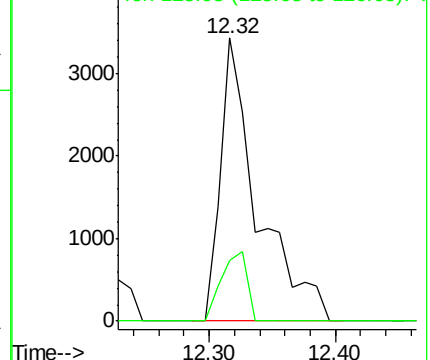
91 100

126 21.5 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



#89

n-Butylbenzene

Concen: Below Cal

RT: 13.18 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD058018.D

Acq: 8 Jun 2018 15:20

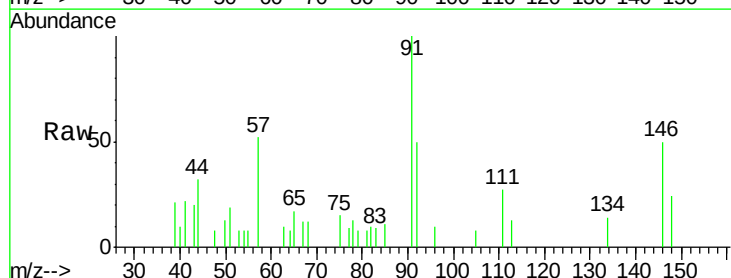
Tgt Ion: 91 Resp: 5398

Ion Ratio Lower Upper

91 100

92 49.7 29.2 87.6

134 14.5 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V

