

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031819\
 Data File : VD061170.D
 Acq On : 19 Mar 2019 4:34
 Operator : VA/AP
 Sample : K1928-06RE
 Misc : 6.65g/5ml/MSVOA D/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

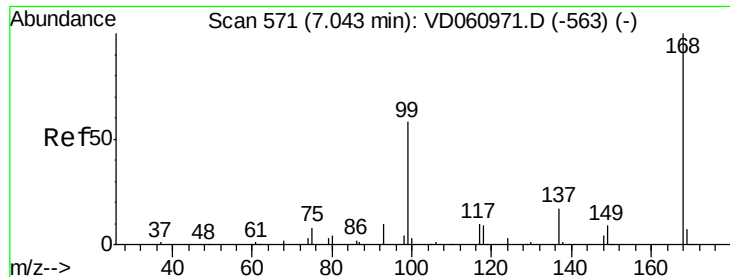
Quant Time: Mar 19 08:22:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	568110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	1002646	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	857110	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	362343	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	272172	57.56	ug/l	0.00
Spiked Amount			Recovery	=	115.12%	
35) Dibromofluoromethane	6.92	113	426431	57.31	ug/l	0.00
Spiked Amount			Recovery	=	114.62%	
50) Toluene-d8	10.40	98	997714	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	
62) 4-Bromofluorobenzene	13.55	95	349767	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.10	94	181	Below Cal	#	8
11) Tert butyl alcohol	4.02	59	405	1.345	ug/l #	75
13) Acrolein	2.92	56	873	2.004	ug/l #	1
15) Acrylonitrile	4.23	53	5712	5.368	ug/l #	48
16) Acetone	3.20	43	28704	21.227	ug/l #	75
18) Methyl Acetate	3.69	43	5749	2.160	ug/l #	59
20) Methylene Chloride	3.81	84	37042	1.482	ug/l	91
25) 2-Butanone	6.06	43	2820	1.838	ug/l #	55
29) Tetrahydrofuran	6.44	42	1226	1.471	ug/l #	33
31) Cyclohexane	6.95	56	201476	24.077	ug/l	96
36) 1,1-Dichloropropene	7.03	75	42456	4.912	ug/l #	44
38) Carbon Tetrachloride	7.03	117	53778	5.649	ug/l #	16
39) Methylcyclohexane	8.85	83	156272	17.438	ug/l	96
40) Benzene	7.45	78	207617	9.614	ug/l	98
48) Methyl methacrylate	9.14	41	10195	3.223	ug/l #	48
52) Toluene	10.50	92	29622	2.206	ug/l	90
55) 1,1,2-Trichloroethane	11.09	97	6557	1.466	ug/l #	15
59) 2-Hexanone	11.47	43	12298	4.885	ug/l #	25
81) trans-1,4-Dichloro-2-buten	13.54	75	126488	82.301	ug/l #	17

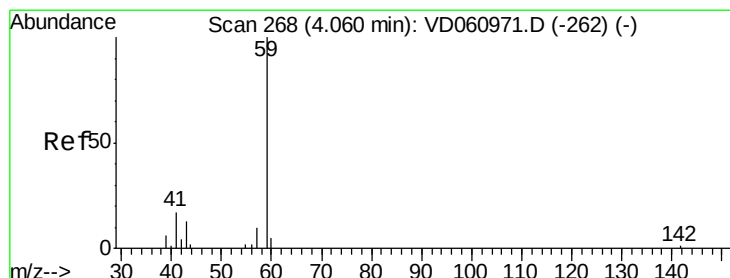
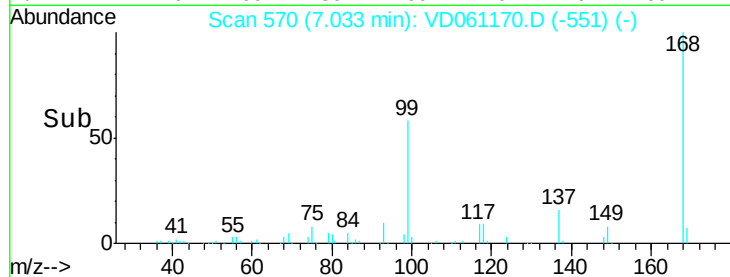
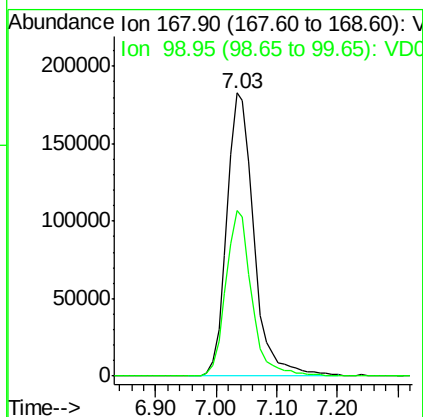
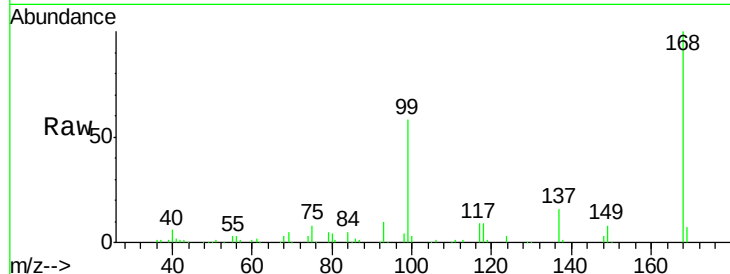
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.01 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

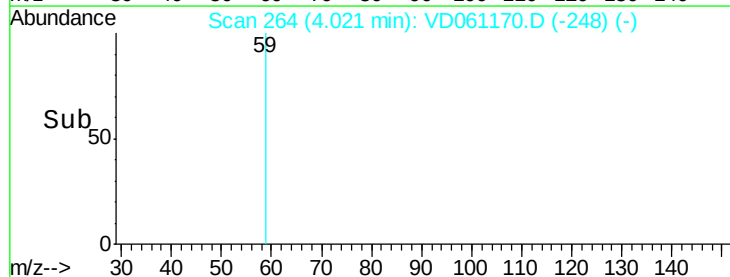
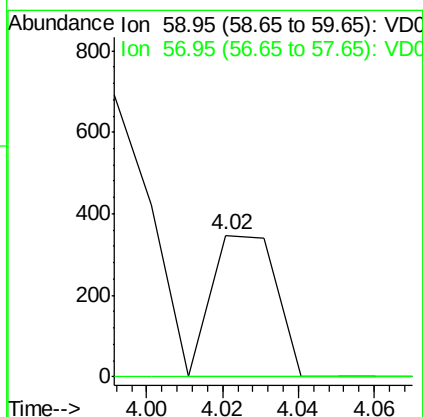
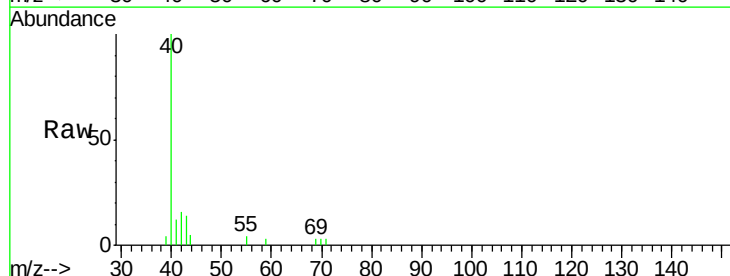
Instrument :
MSVOA_D
ClientSampleId :

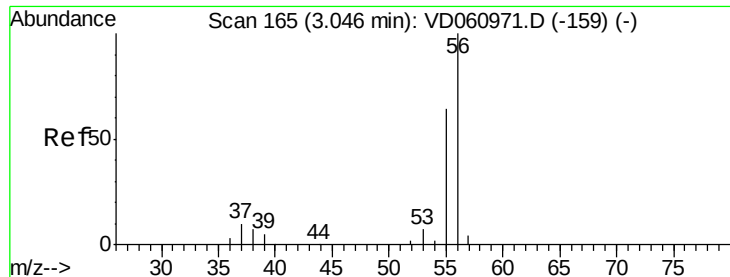
Tot Ion:168 Resp: 568110
Ion Ratio Lower Upper
168 100
99 58.5 47.3 70.9



#11
Tert butyl alcohol
Concen: 1.345 ug/l
RT: 4.02 min Scan# 264
Delta R.T. -0.04 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Tgt Ion: 59 Resp: 405
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#





#13

Acrolein

Concen: 2.004 ug/l

RT: 2.92 min Scan# 152

Delta R.T. -0.13 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

Instrument :

MSVOA_D

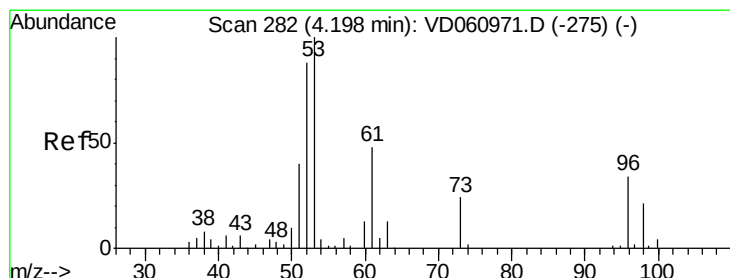
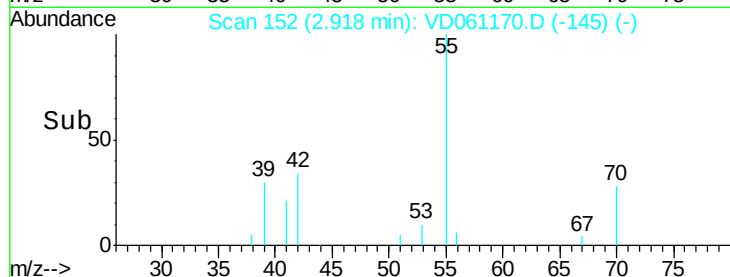
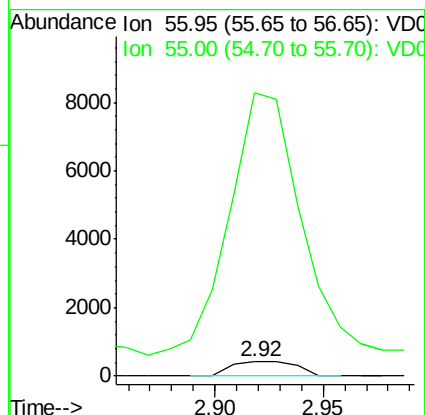
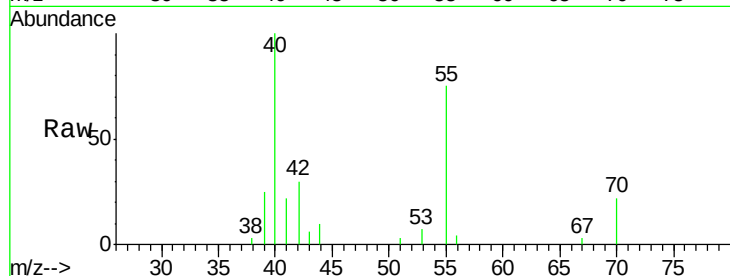
ClientSampleId :

Tot Ion: 56 Resp: 873

Ion Ratio Lower Upper

56 100

55 2008.3 51.3 76.9#



#15

Acrylonitrile

Concen: 5.368 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.03 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

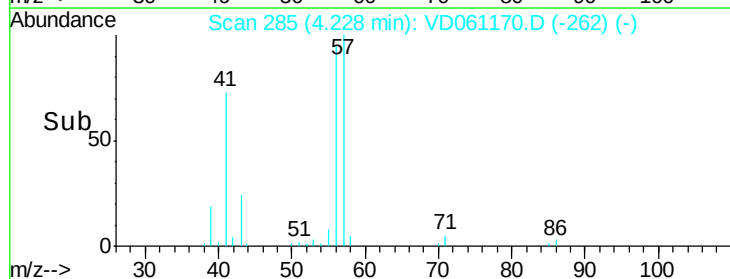
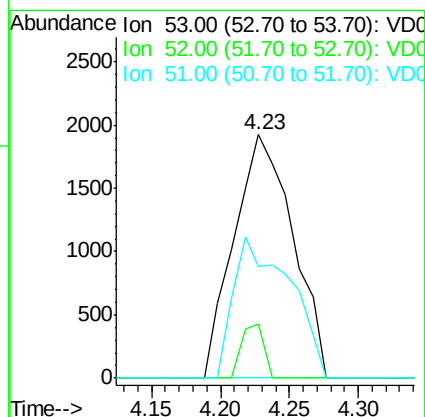
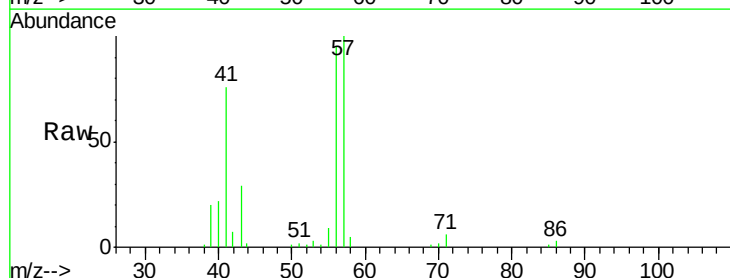
Tgt Ion: 53 Resp: 5712

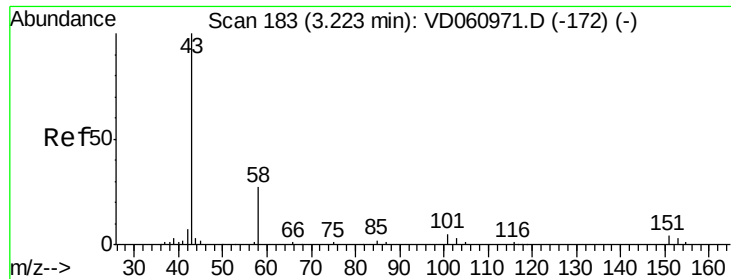
Ion Ratio Lower Upper

53 100

52 22.3 70.2 105.4#

51 45.9 31.7 47.5

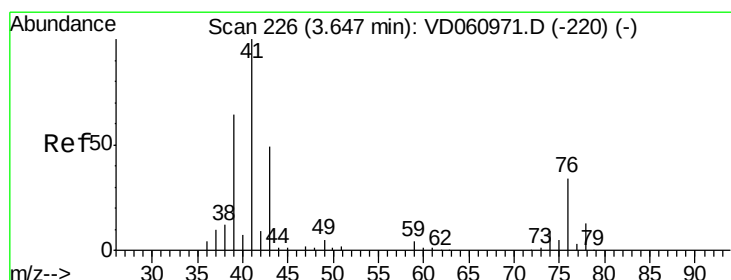
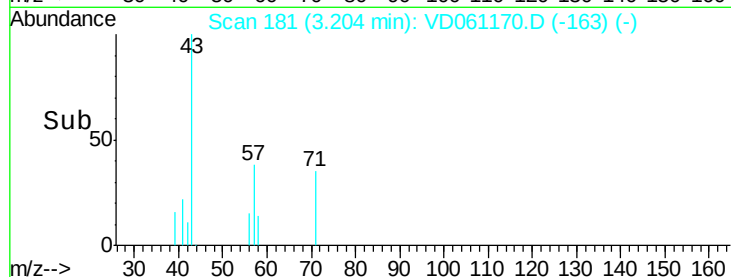
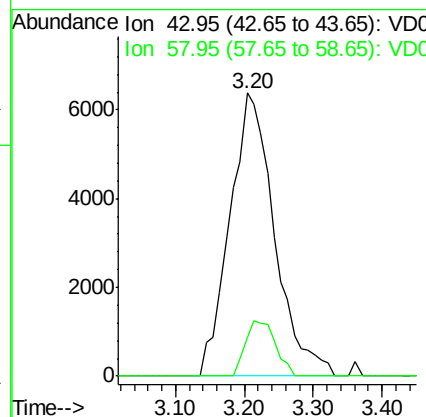
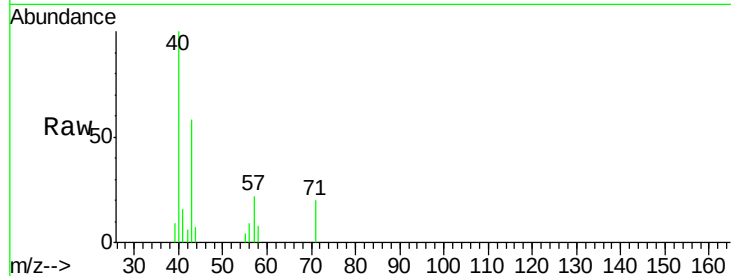




#16
Acetone
Concen: 21.227 ug/l
RT: 3.20 min Scan# 181
Delta R.T. -0.02 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

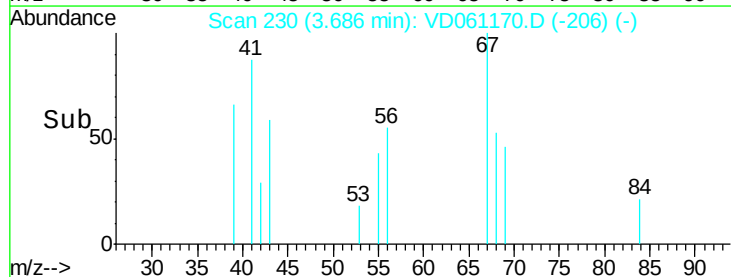
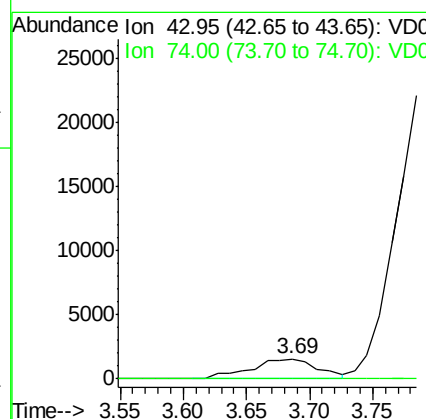
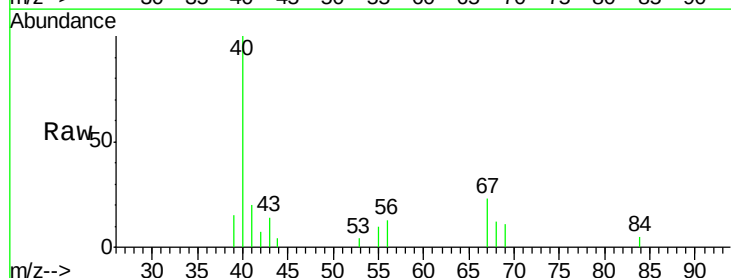
Instrument :
MSVOA_D
ClientSampleId :

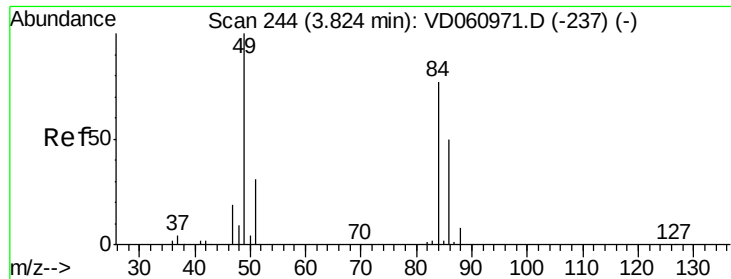
Tot Ion: 43 Resp: 28704
Ion Ratio Lower Upper
43 100
58 13.9 21.6 32.4#



#18
Methyl Acetate
Concen: 2.160 ug/l
RT: 3.69 min Scan# 230
Delta R.T. 0.04 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Tgt Ion: 43 Resp: 5749
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#

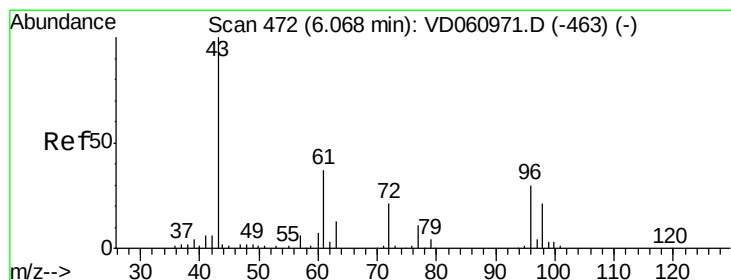
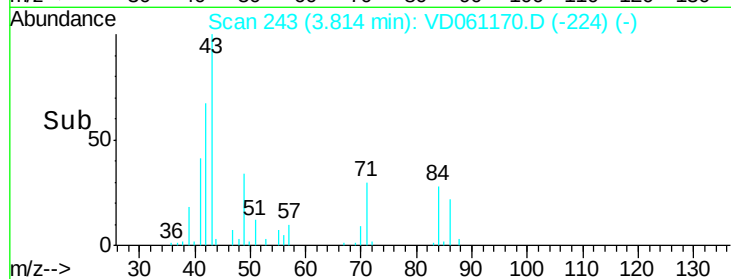
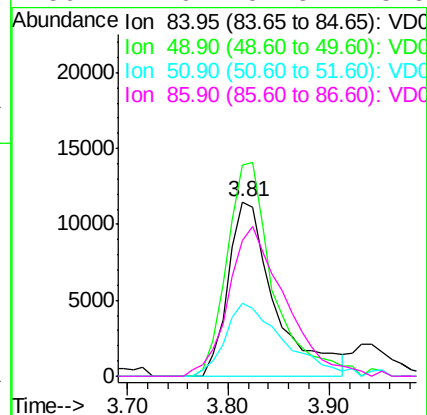
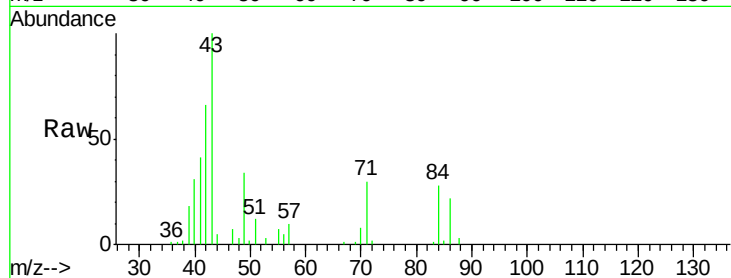




#20
Methylene Chloride
Concen: 1.482 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

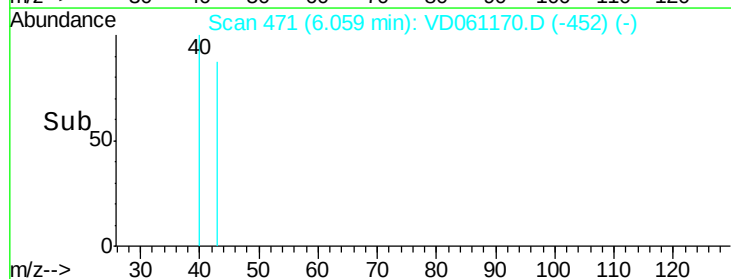
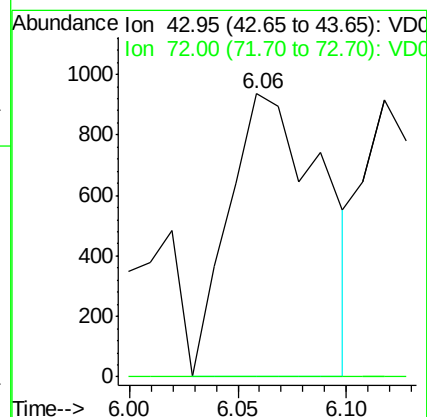
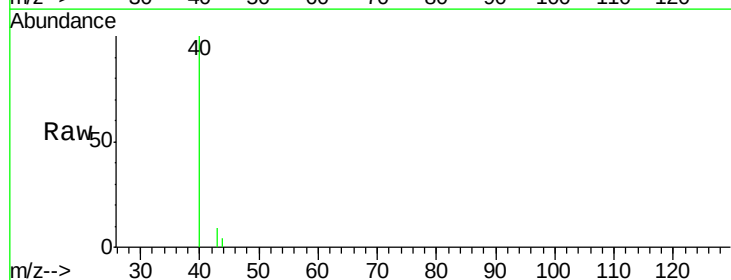
Instrument :
MSVOA_D
ClientSampled :

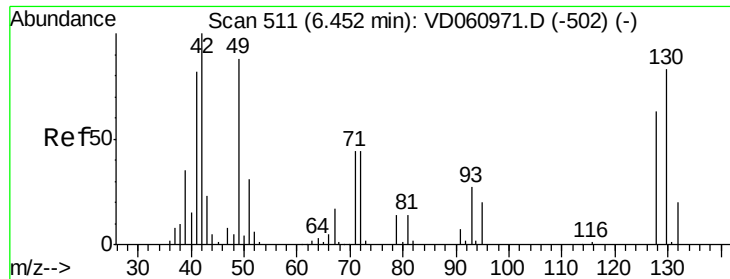
Tot Ion: 84 Resp: 37042
Ion Ratio Lower Upper
84 100
49 121.4 104.2 156.2
51 41.7 32.3 48.5
86 77.9 52.3 78.5



#25
2-Butanone
Concen: 1.838 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.01 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Tgt Ion: 43 Resp: 2820
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#





#29

Tetrahydrofuran

Concen: 1.471 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.01 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

Instrument :

MSVOA_D

ClientSampleId :

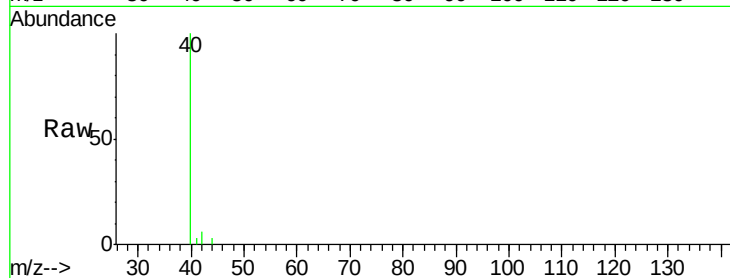
Tot Ion: 42 Resp: 1226

Ion Ratio Lower Upper

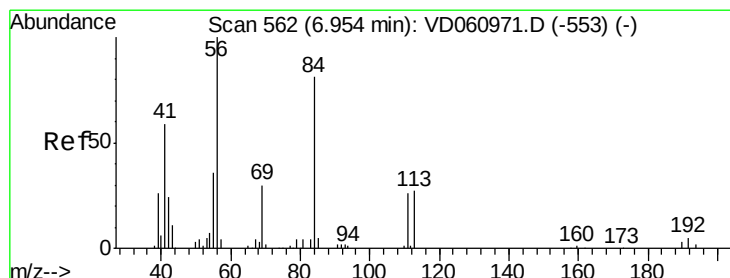
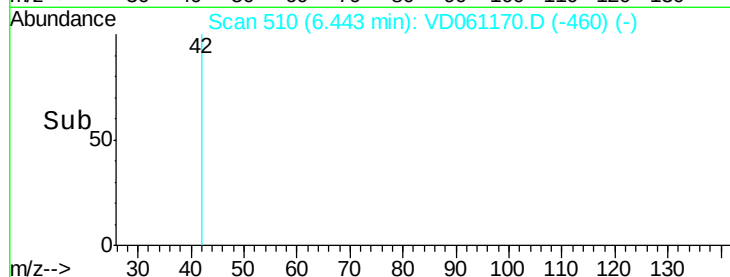
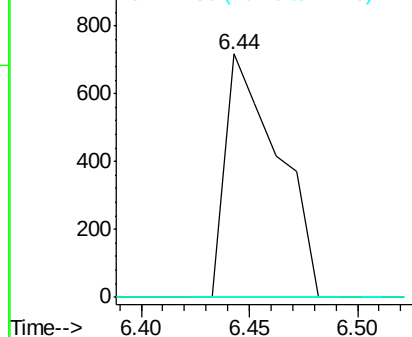
42 100

72 0.0 34.5 51.7#

71 0.0 33.8 50.6#



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: 24.077 ug/l

RT: 6.95 min Scan# 562

Delta R.T. 0.00 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

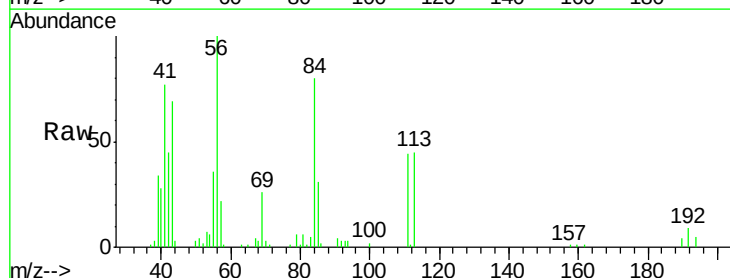
Tgt Ion: 56 Resp: 201476

Ion Ratio Lower Upper

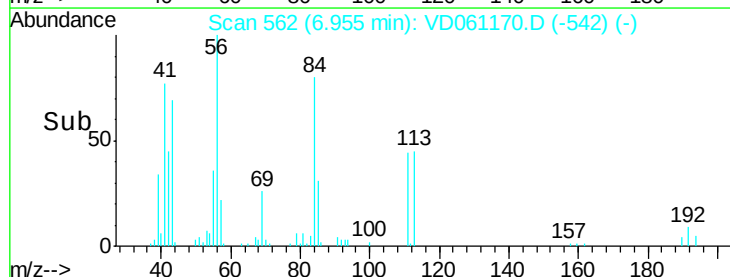
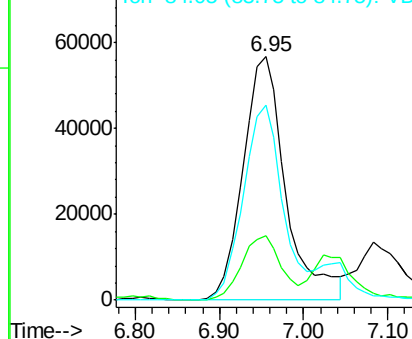
56 100

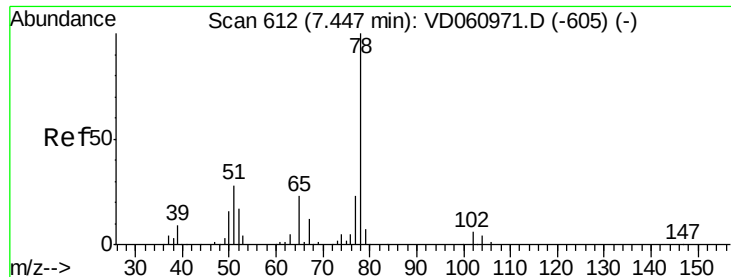
69 26.3 24.0 36.0

84 80.0 65.8 98.6



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

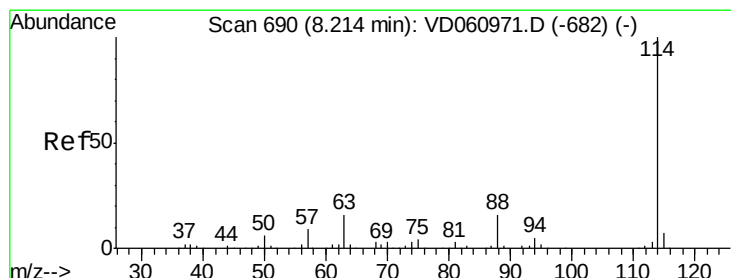
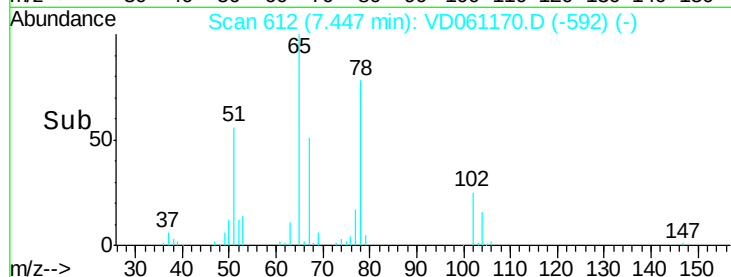
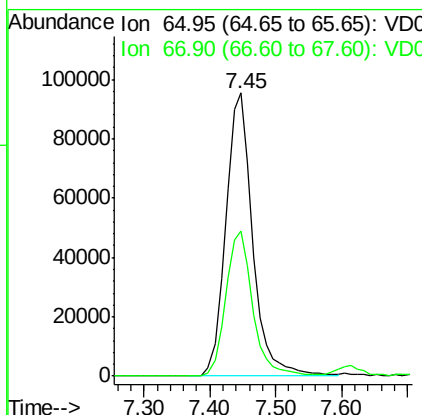
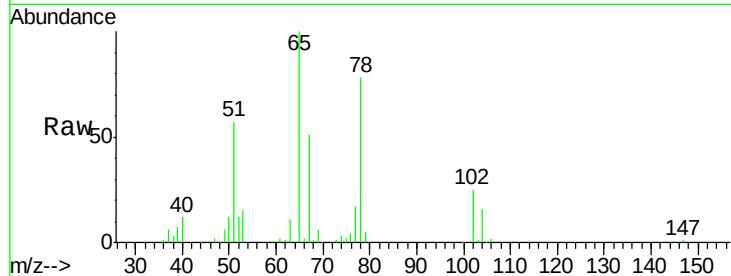




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VD061170.D
 Acq: 19 Mar 2019 4:34

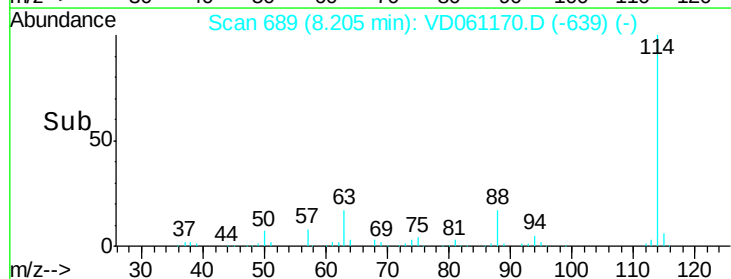
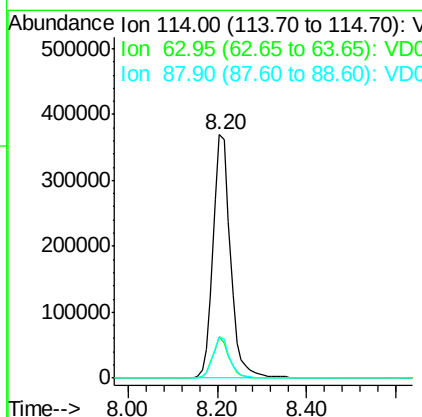
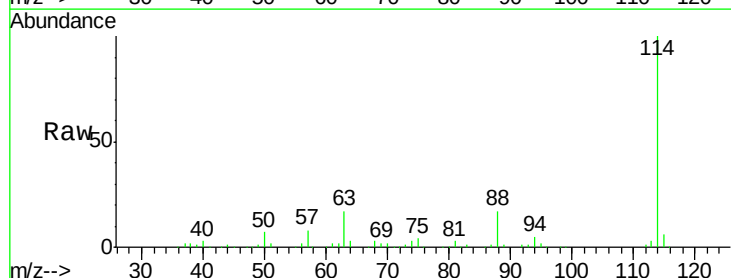
Instrument :
 MSVOA_D
 ClientSampleId :

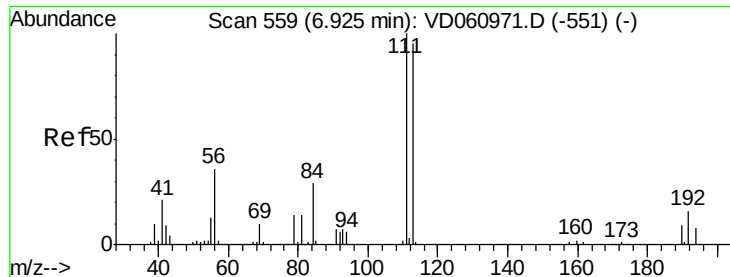
Tot Ion: 65 Resp: 272172
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD061170.D
 Acq: 19 Mar 2019 4:34

Tgt Ion: 114 Resp: 1002646
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 31.4
 88 17.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

Instrument :

MSVOA_D

ClientSampleId :

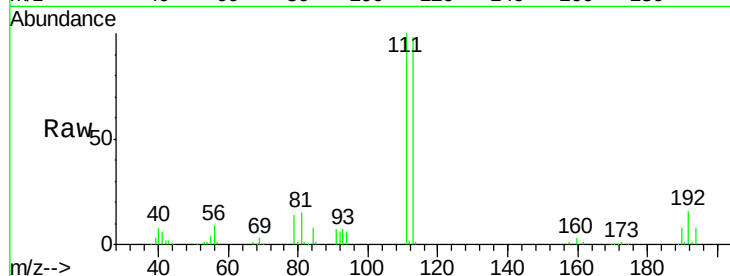
Tot Ion:113 Resp: 426431

Ion Ratio Lower Upper

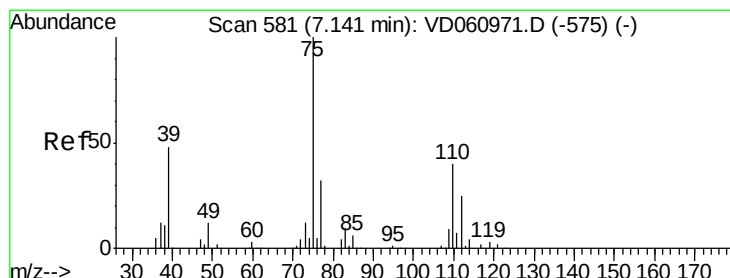
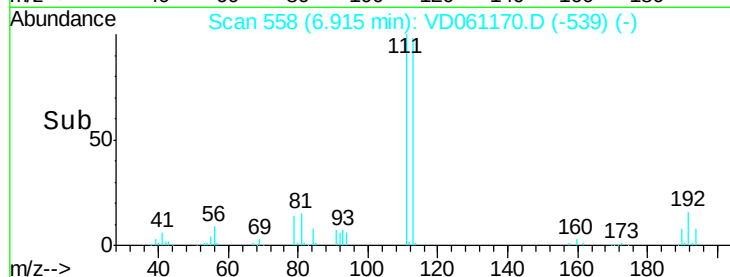
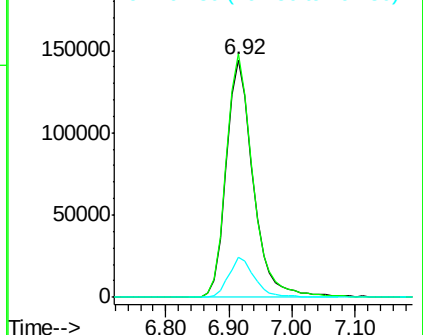
113 100

111 102.5 84.2 126.4

192 16.6 13.1 19.7



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: 4.912 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

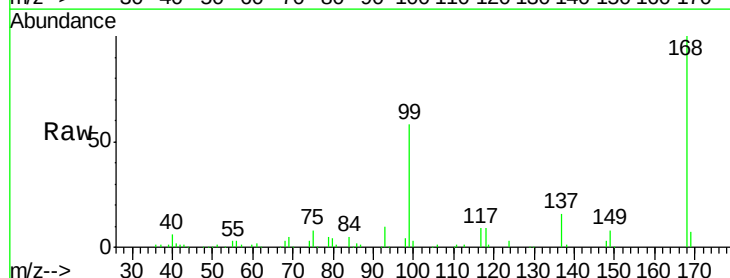
Tgt Ion: 75 Resp: 42456

Ion Ratio Lower Upper

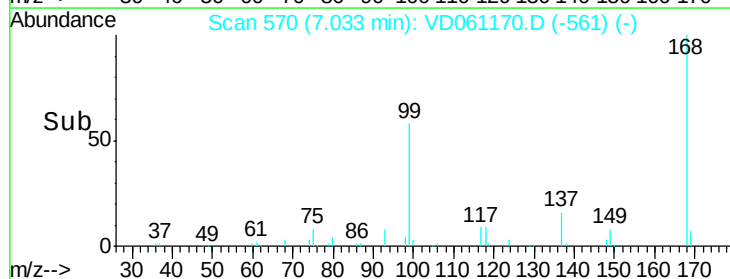
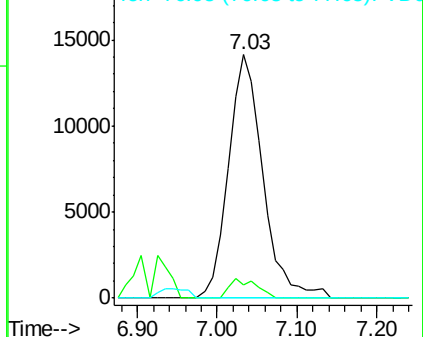
75 100

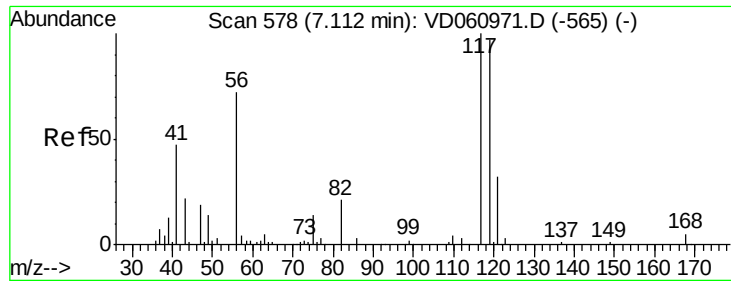
110 5.6 19.7 59.1#

77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

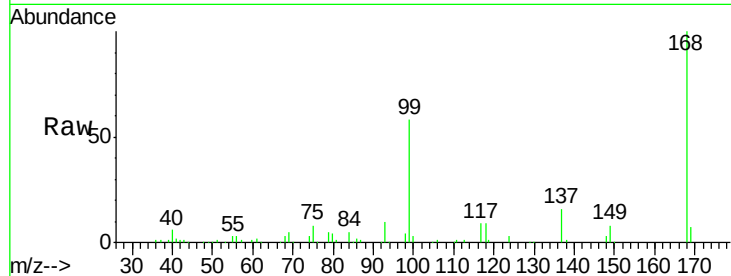




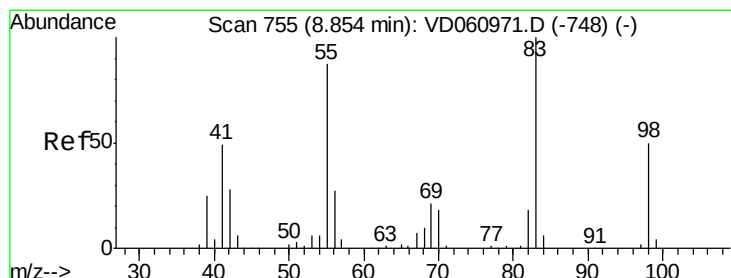
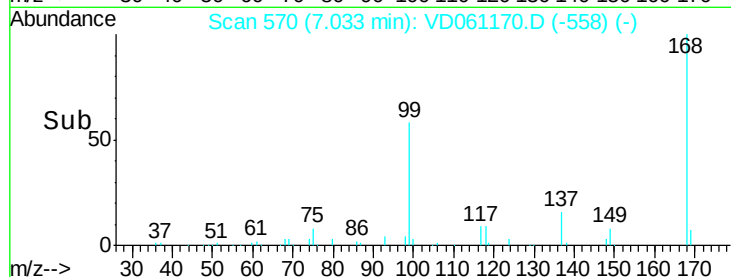
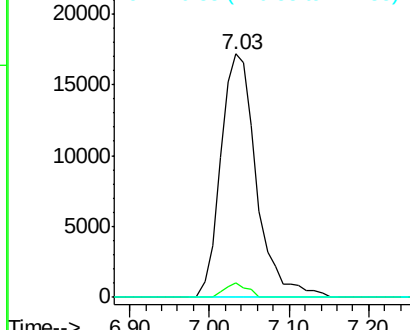
#38
Carbon Tetrachloride
Concen: 5.649 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.08 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 53778
Ion Ratio Lower Upper
117 100
119 5.8 77.8 116.8#
121 0.0 25.3 37.9#

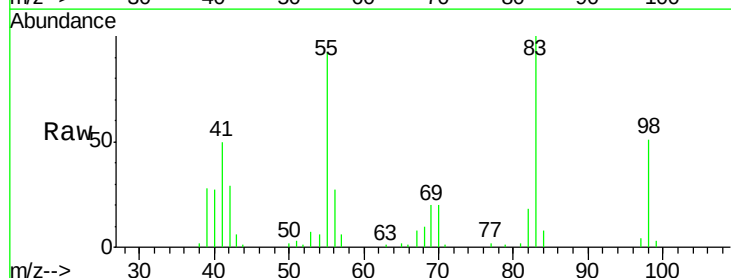


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

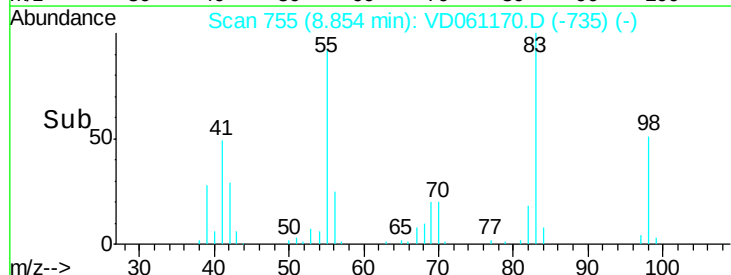
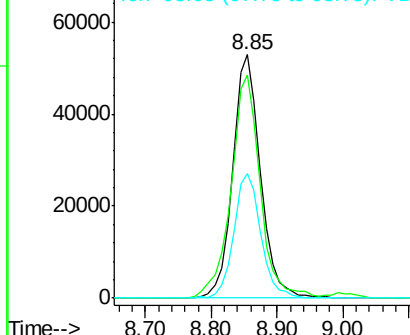


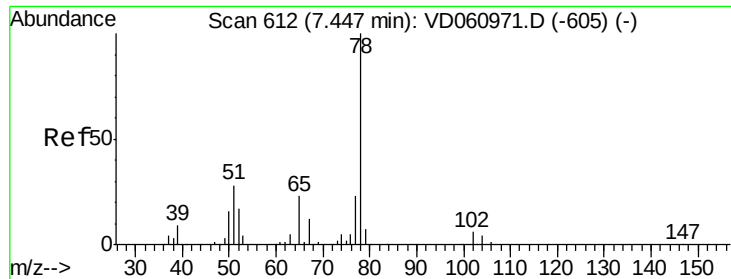
#39
Methylcyclohexane
Concen: 17.438 ug/l
RT: 8.85 min Scan# 755
Delta R.T. 0.00 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Tgt Ion: 83 Resp: 156272
Ion Ratio Lower Upper
83 100
55 91.6 69.6 104.4
98 50.9 40.0 60.0



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

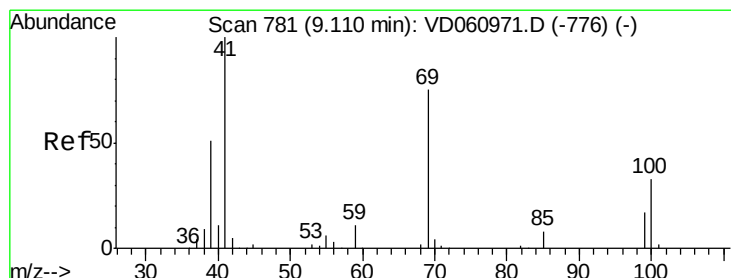
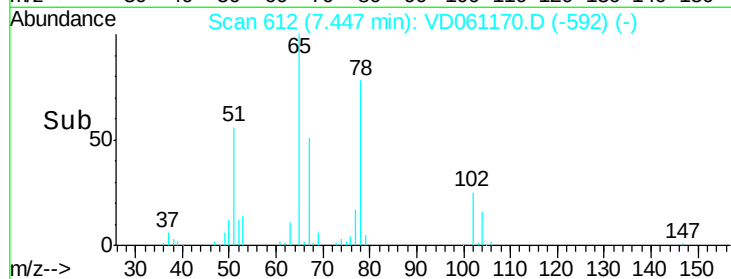
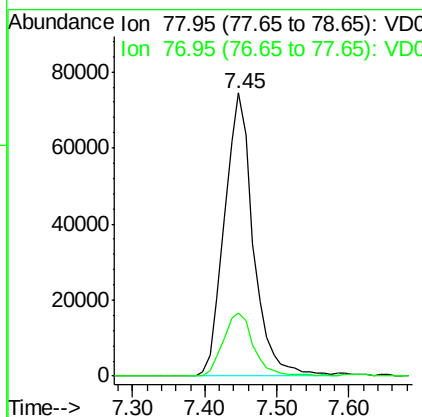
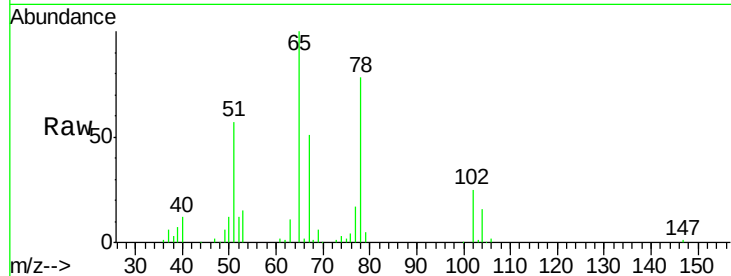




#40
Benzene
Concen: 9.614 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.00 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

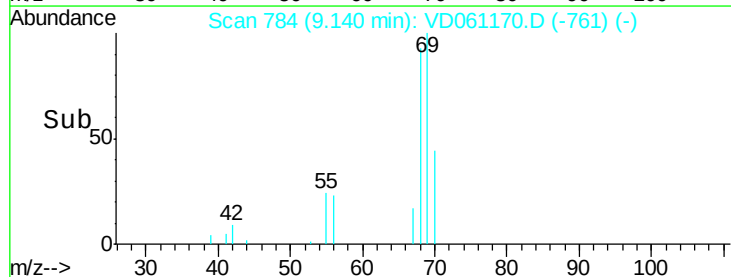
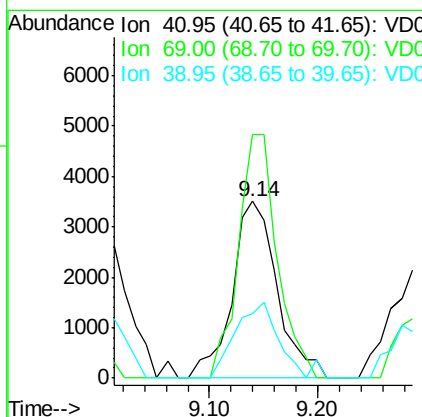
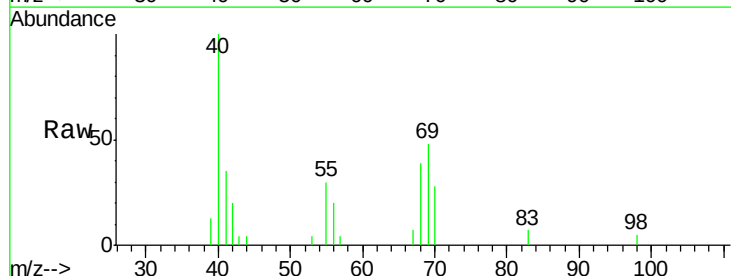
Instrument :
MSVOA_D
ClientSampleId :

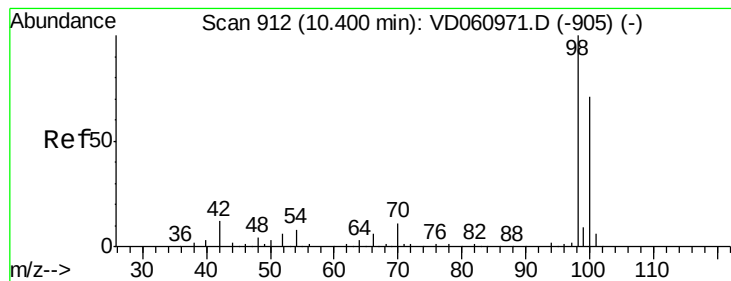
Tot Ion: 78 Resp: 207617
Ion Ratio Lower Upper
78 100
77 22.4 18.8 28.2



#48
Methyl methacrylate
Concen: 3.223 ug/l
RT: 9.14 min Scan# 784
Delta R.T. 0.03 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Tgt Ion: 41 Resp: 10195
Ion Ratio Lower Upper
41 100
69 137.6 59.9 89.9#
39 36.6 40.9 61.3#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

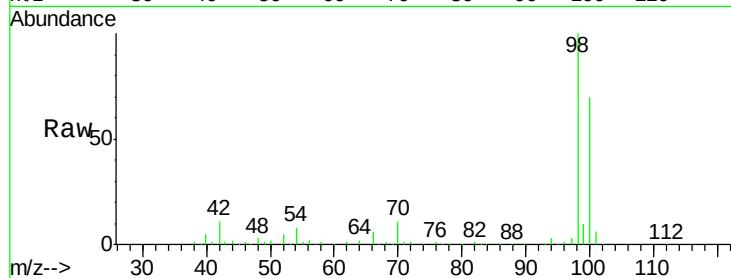
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 997714

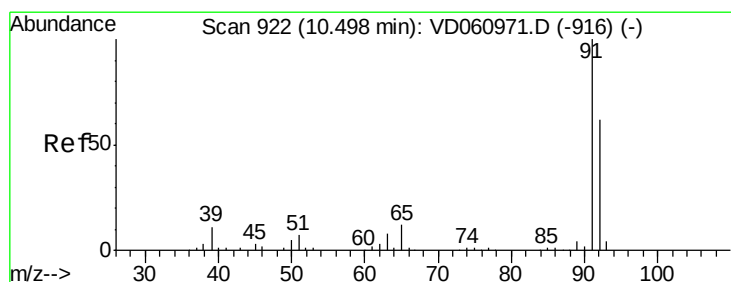
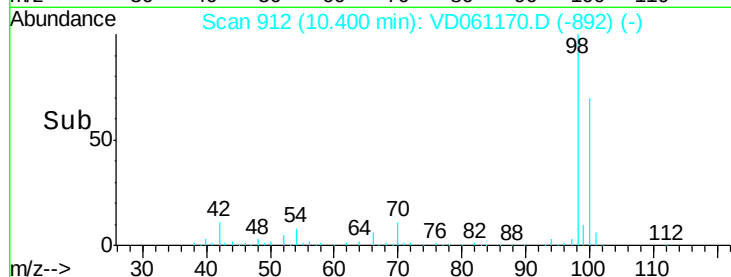
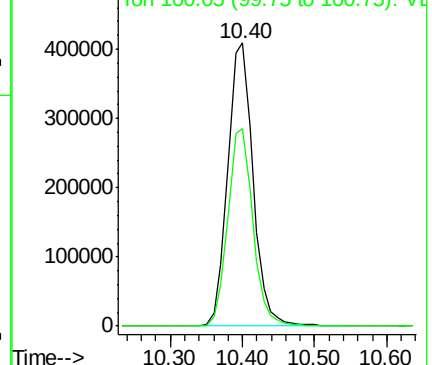
Ion Ratio Lower Upper

98 100

100 70.0 57.4 86.2



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



#52

Toluene

Concen: 2.206 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.00 min

Lab File: VD061170.D

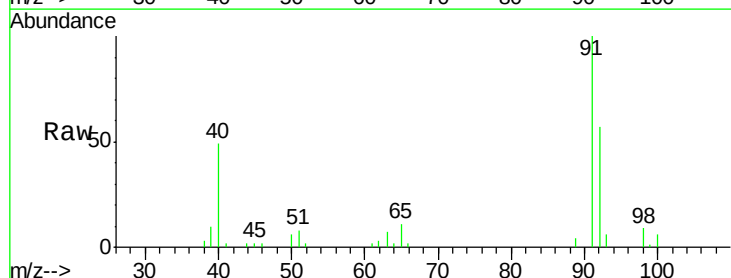
Acq: 19 Mar 2019 4:34

Tgt Ion: 92 Resp: 29622

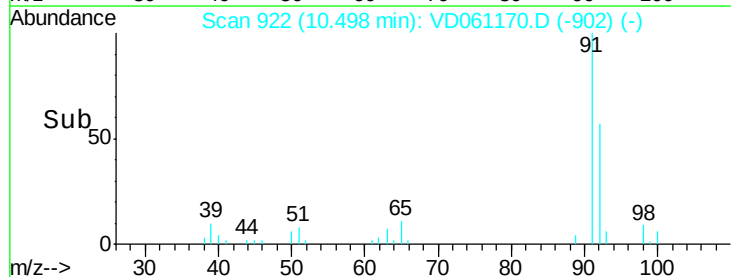
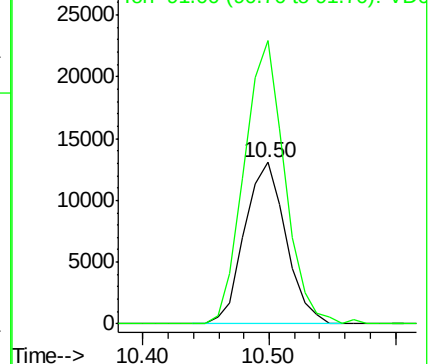
Ion Ratio Lower Upper

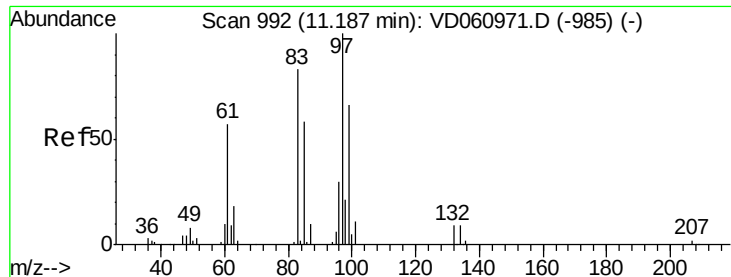
92 100

91 175.5 129.8 194.8



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





#55

1,1,2-Trichloroethane

Concen: 1.466 ug/l

RT: 11.09 min Scan# 982

Delta R.T. -0.10 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 6557

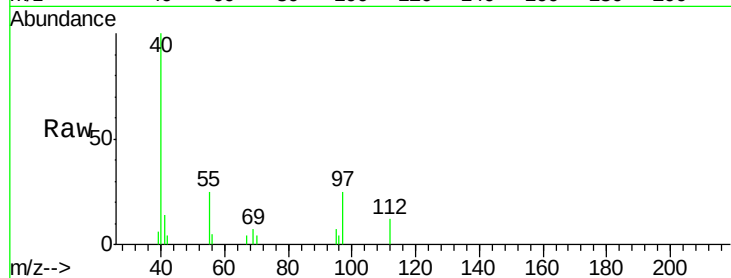
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 46.4 69.6#

99 0.0 52.4 78.6#

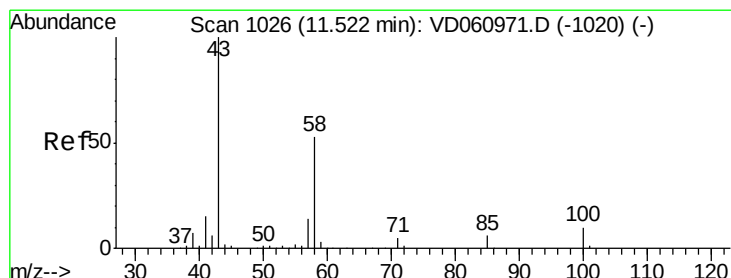
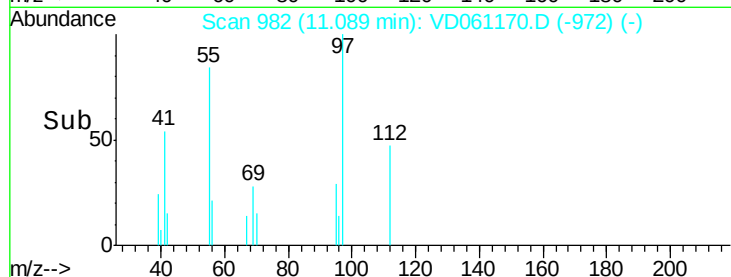
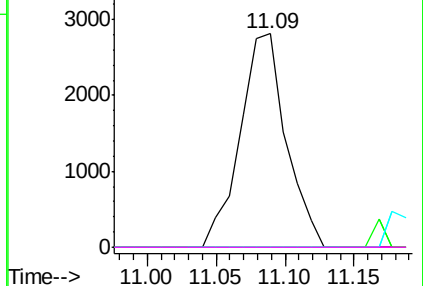


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#59

2-Hexanone

Concen: 4.885 ug/l

RT: 11.47 min Scan# 1021

Delta R.T. -0.05 min

Lab File: VD061170.D

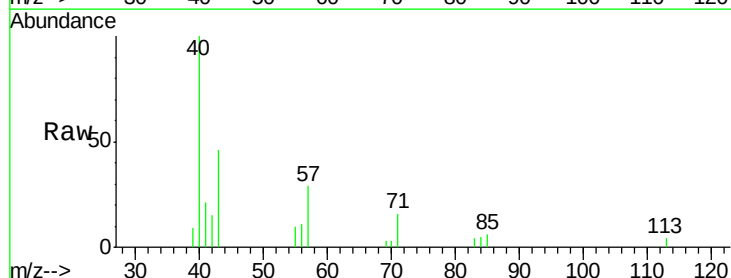
Acq: 19 Mar 2019 4:34

Tgt Ion: 43 Resp: 12298

Ion Ratio Lower Upper

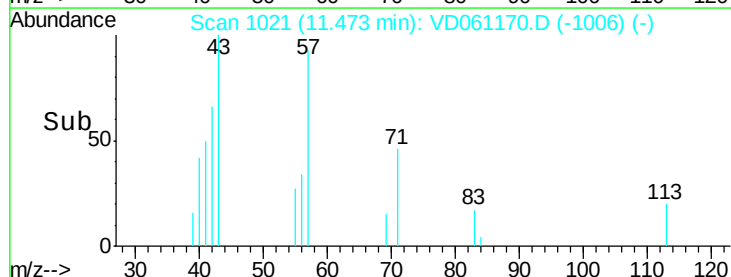
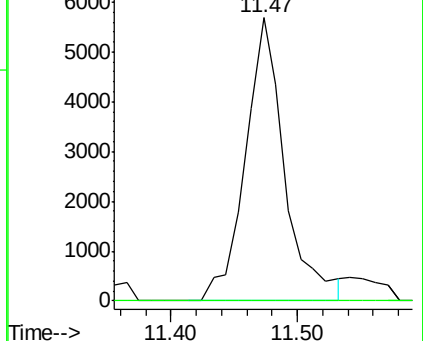
43 100

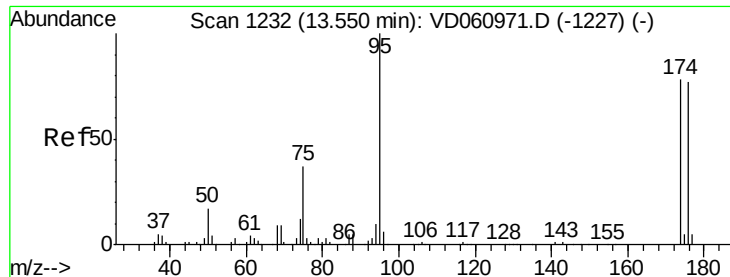
58 0.0 26.5 79.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

Instrument :

MSVOA_D

ClientSampleId :

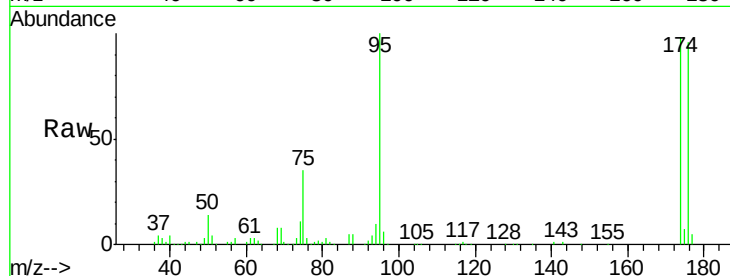
Tot Ion: 95 Resp: 349767

Ion Ratio Lower Upper

95 100

174 98.0 0.0 155.6

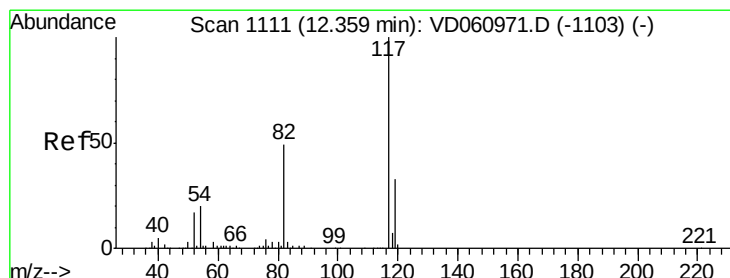
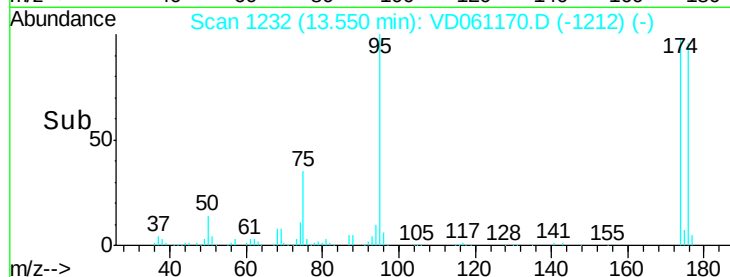
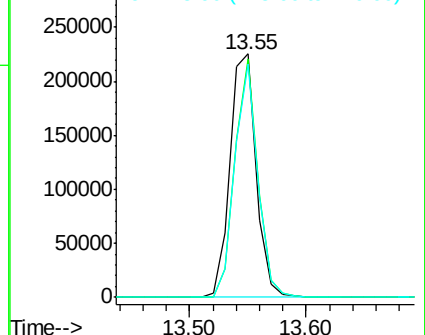
176 95.7 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): V

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. 0.00 min

Lab File: VD061170.D

Acq: 19 Mar 2019 4:34

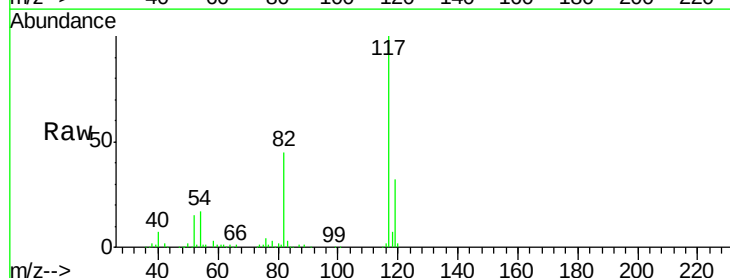
Tgt Ion: 117 Resp: 857110

Ion Ratio Lower Upper

117 100

82 44.7 38.9 58.3

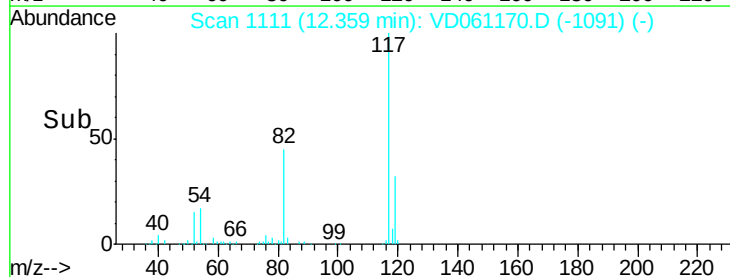
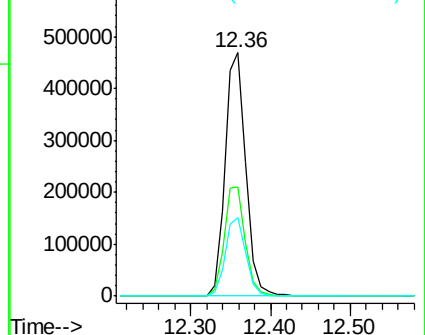
119 32.3 26.6 39.8

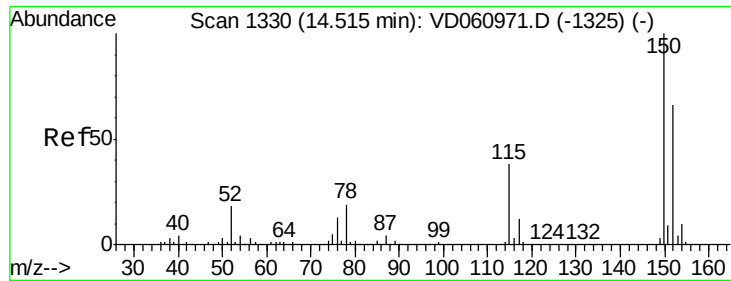


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



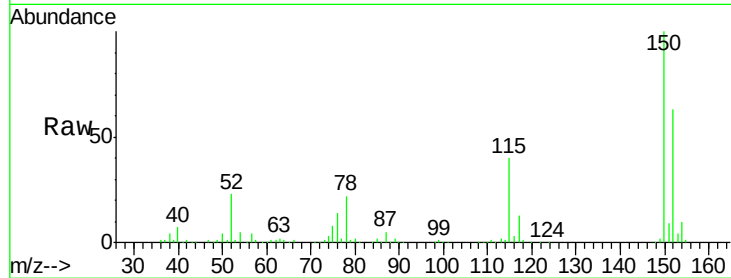


#72

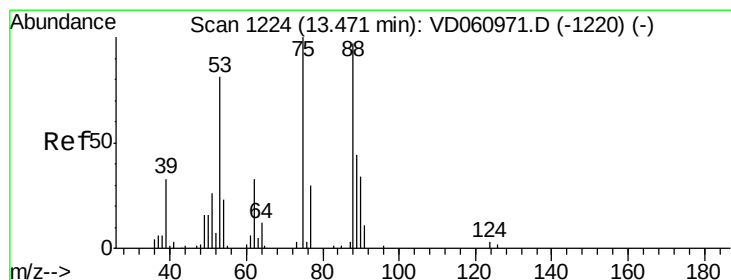
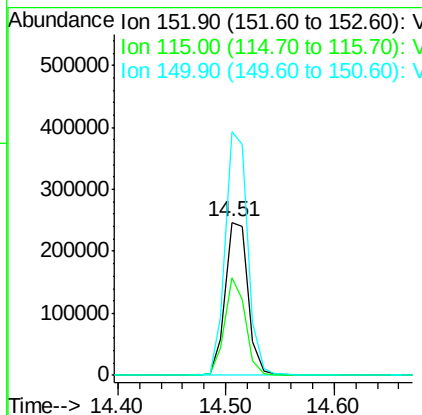
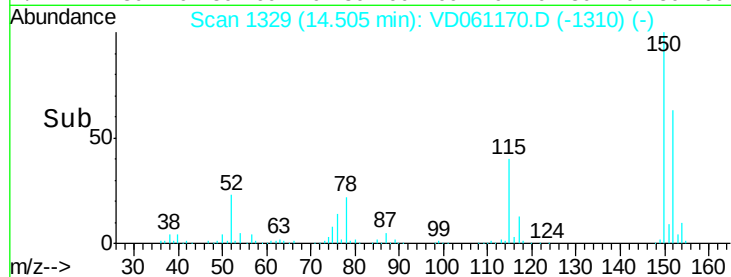
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 362343
Ion Ratio Lower Upper
152 100
115 63.4 28.6 85.9
150 159.0 0.0 310.6



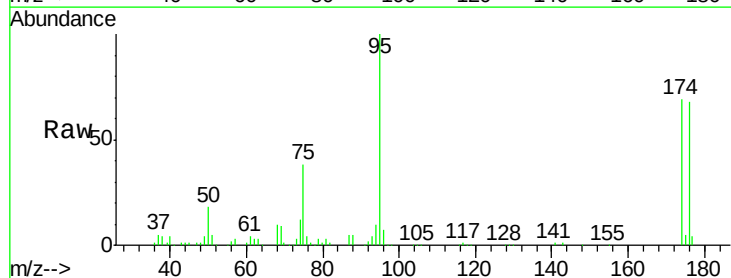
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 82.301 ug/l
RT: 13.54 min Scan# 1231
Delta R.T. 0.07 min
Lab File: VD061170.D
Acq: 19 Mar 2019 4:34

Tgt Ion: 75 Resp: 126488
Ion Ratio Lower Upper
75 100
53 0.0 64.4 96.6#
89 0.0 34.8 52.2#



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

