

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031419\
 Data File : VD061077.D
 Acq On : 14 Mar 2019 20:58
 Operator : VA/AP
 Sample : K1908-05
 Misc : 5.09g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 93-94

Quant Time: Mar 15 02:14:46 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	7.06	168	580792	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1067481	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	857260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	313232	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	234142	48.43	ug/l	0.02
Spiked Amount			Recovery	=	96.86%	
35) Dibromofluoromethane	6.94	113	408090	51.51	ug/l	0.02
Spiked Amount			Recovery	=	103.02%	
50) Toluene-d8	10.42	98	959846	48.25	ug/l	0.02
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	13.56	95	326259	42.27	ug/l	0.00
Spiked Amount			Recovery	=	84.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	196	Below Cal	#	8
8) Diethyl Ether	2.89	74	3239	1.543	ug/l	87
16) Acetone	3.23	43	61296	44.339	ug/l	100
20) Methylene Chloride	3.83	84	54227	4.344	ug/l	97
25) 2-Butanone	6.08	43	8655	5.517	ug/l	95
31) Cyclohexane	7.05	56	10107	1.181	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	41338	4.493	ug/l #	45
37) Ethyl Acetate	6.08	43	8655	2.004	ug/l #	66
38) Carbon Tetrachloride	7.06	117	55537	5.479	ug/l #	15
51) 4-Methyl-2-Pentanone	10.42	43	3914	1.068	ug/l #	1
52) Toluene	10.52	92	41486	2.902	ug/l	92
81) trans-1,4-Dichloro-2-buten	13.56	75	120173	90.452	ug/l #	17

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.02 min

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ClientSampleId :

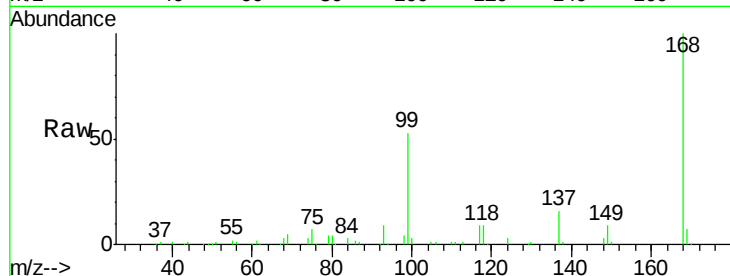
93-94

Tot Ion:168 Resp: 580792

Ion Ratio Lower Upper

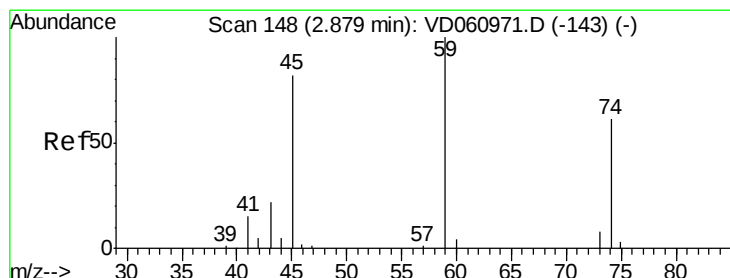
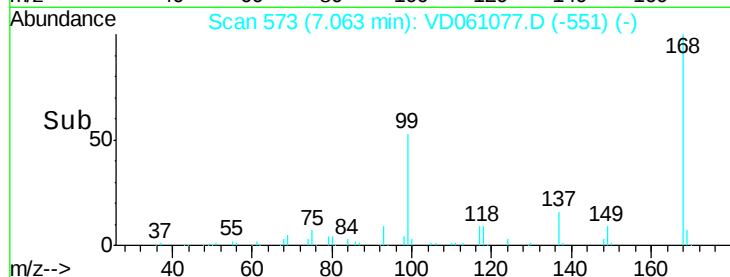
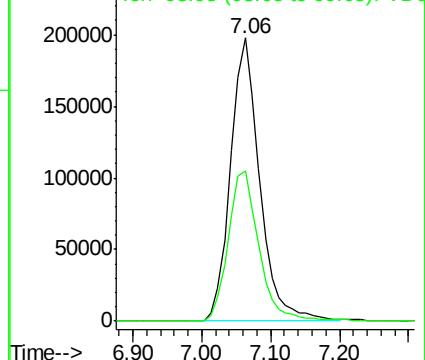
168 100

99 53.0 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.543 ug/l

RT: 2.89 min Scan# 149

Delta R.T. 0.01 min

Lab File: VD061077.D

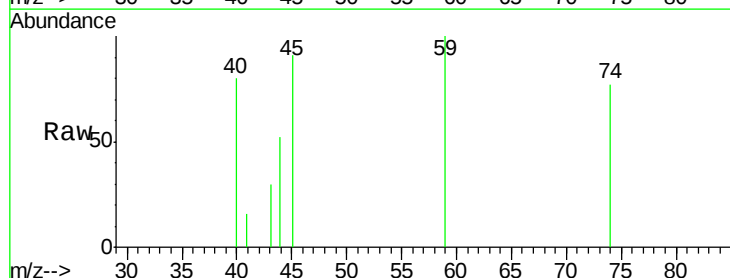
Acq: 14 Mar 2019 20:58

Tgt Ion: 74 Resp: 3239

Ion Ratio Lower Upper

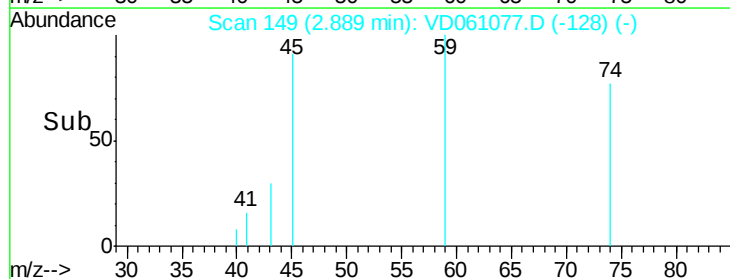
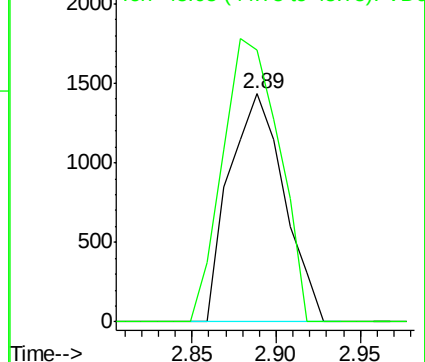
74 100

45 119.2 67.0 201.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

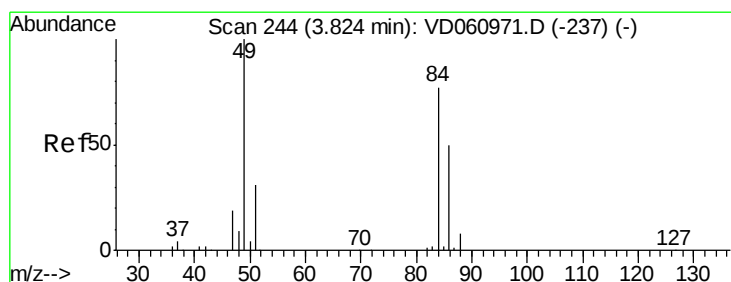
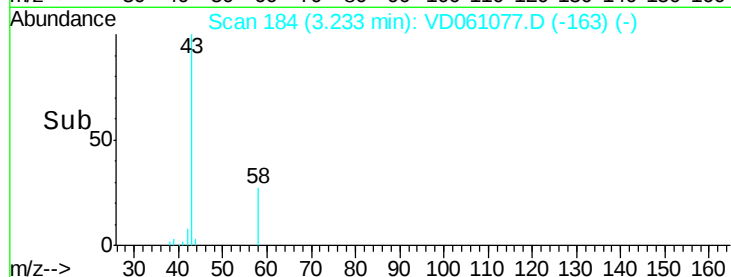
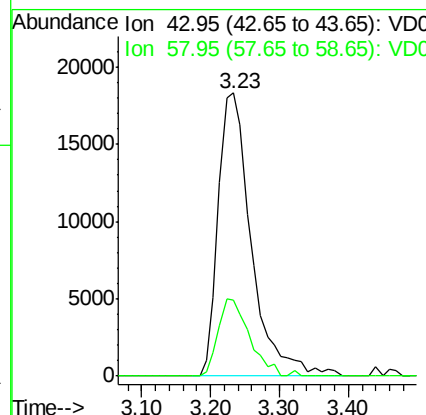
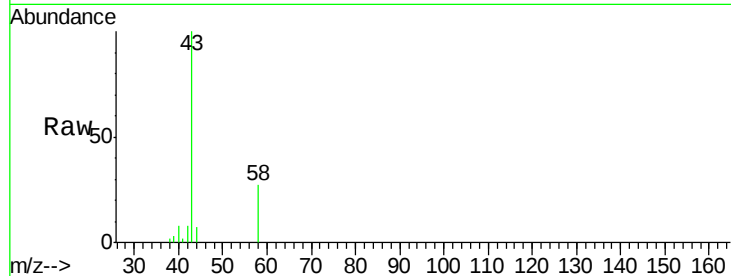




#16
Acetone
Concen: 44.339 ug/l
RT: 3.23 min Scan# 184
Delta R.T. 0.01 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

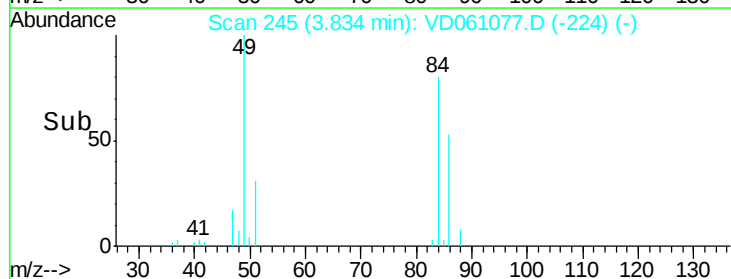
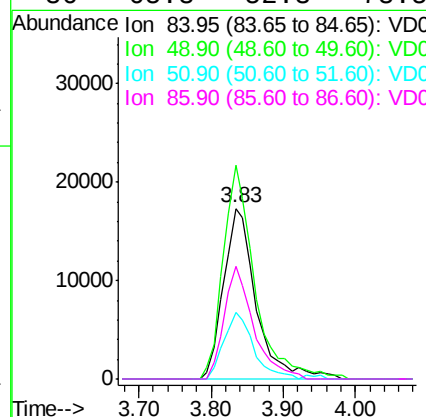
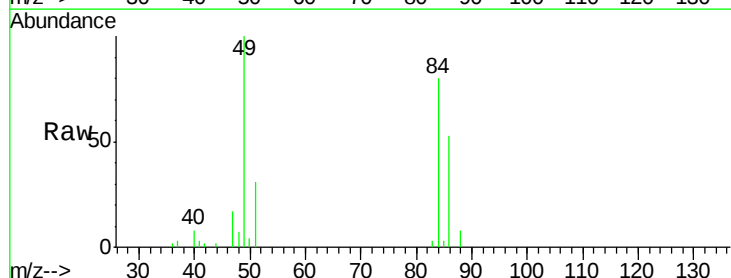
Instrument :
MSVOA_D
ClientSampleId :
93-94

Tot Ion: 43 Resp: 61296
Ion Ratio Lower Upper
43 100
58 27.1 21.6 32.4



#20
Methylene Chloride
Concen: 4.344 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.01 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

Tgt Ion: 84 Resp: 54227
Ion Ratio Lower Upper
84 100
49 125.1 104.2 156.2
51 38.9 32.3 48.5
86 65.8 52.3 78.5





#25

2-Butanone

Concen: 5.517 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

Instrument :

MSVOA_D

ClientSampleId :

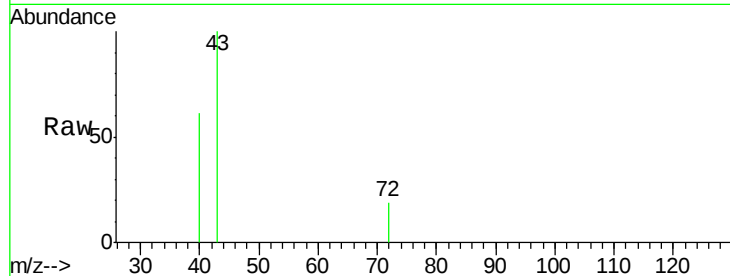
93-94

Tot Ion: 43 Resp: 8655

Ion Ratio Lower Upper

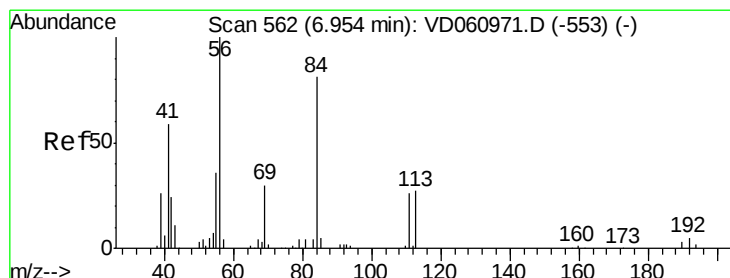
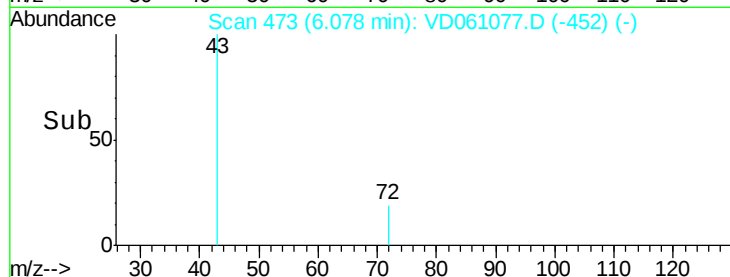
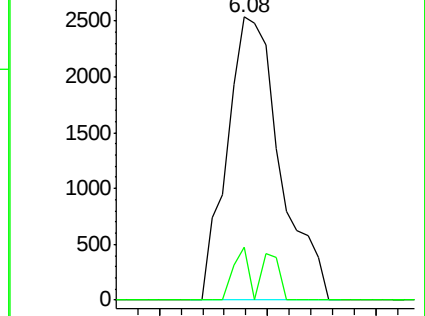
43 100

72 18.8 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.181 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

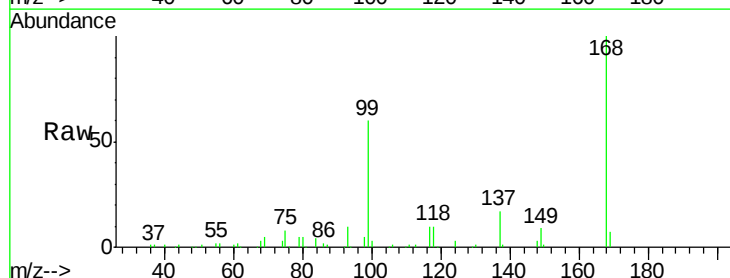
Tgt Ion: 56 Resp: 10107

Ion Ratio Lower Upper

56 100

69 268.3 24.0 36.0#

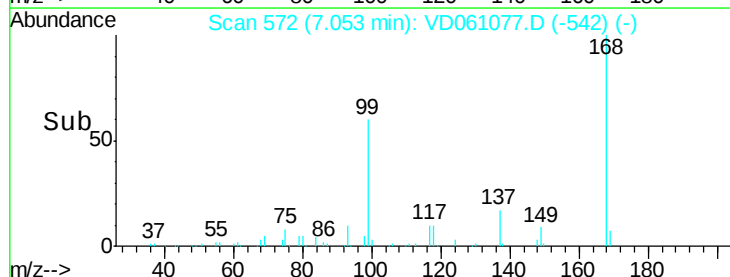
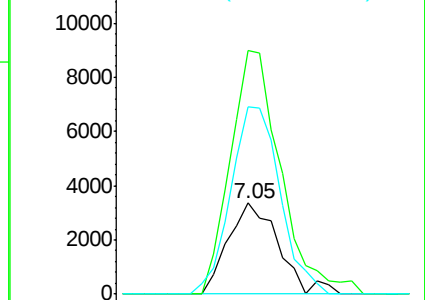
84 206.9 65.8 98.6#

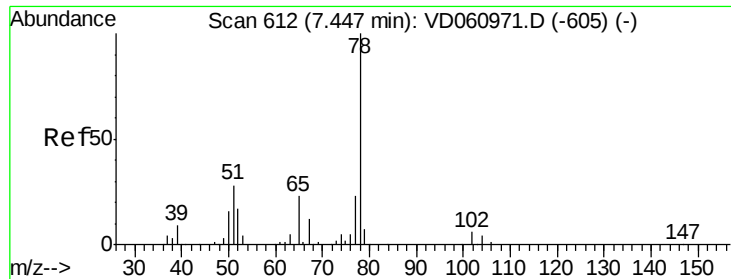


Abundance Ion 55.95 (55.65 to 56.65): VDC

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: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

Instrument :

MSVOA_D

ClientSampleId :

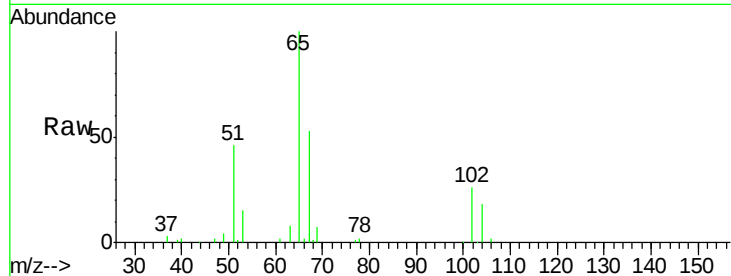
93-94

Tot Ion: 65 Resp: 234142

Ion Ratio Lower Upper

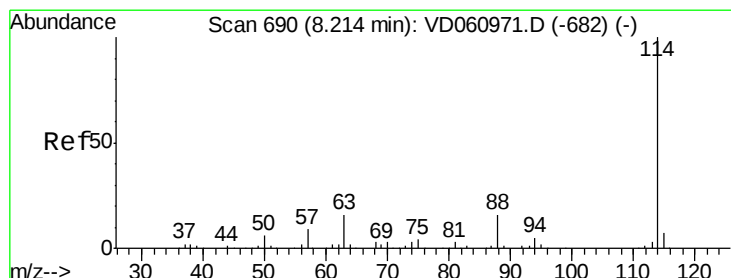
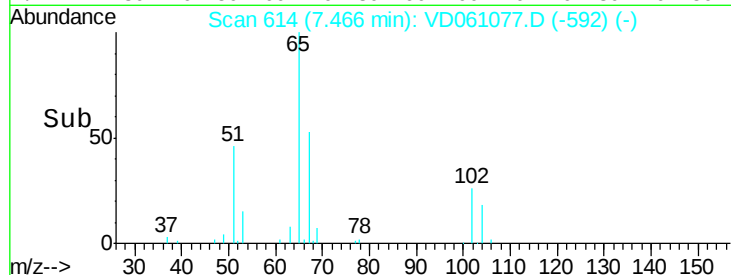
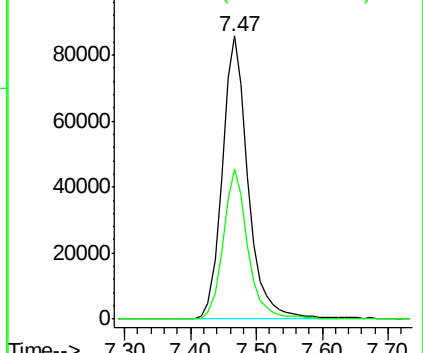
65 100

67 53.2 0.0 105.2



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: 8.23 min Scan# 692

Delta R.T. 0.02 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

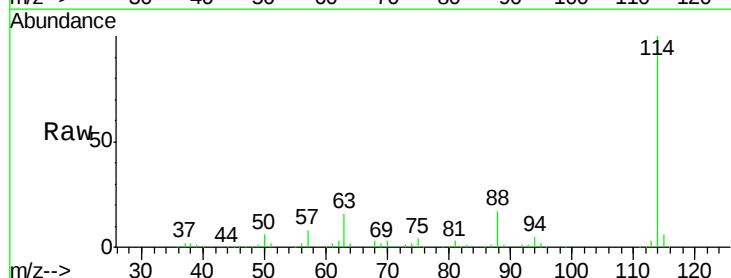
Tgt Ion: 114 Resp: 1067481

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.4

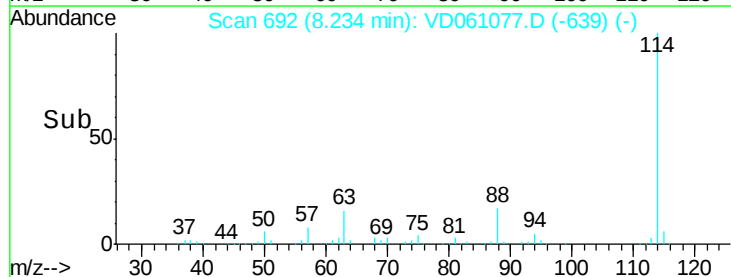
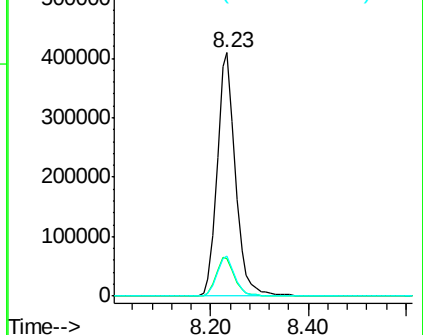
88 16.6 0.0 33.0

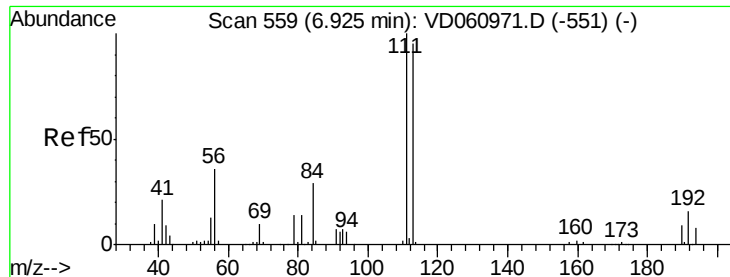


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.02 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

Instrument :

MSVOA_D

ClientSampleId :

93-94

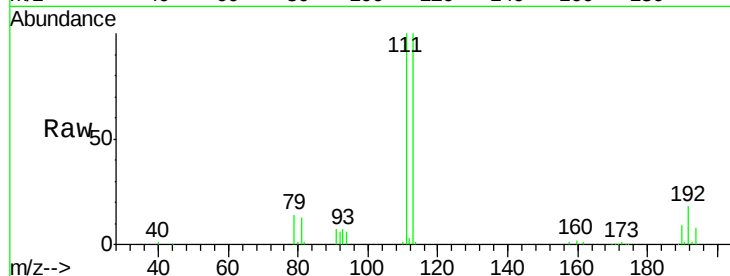
Tot Ion:113 Resp: 408090

Ion Ratio Lower Upper

113 100

111 100.2 84.2 126.4

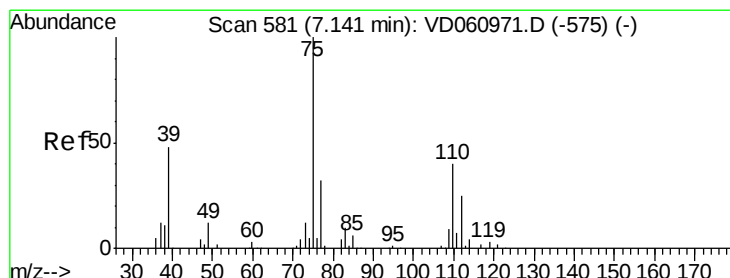
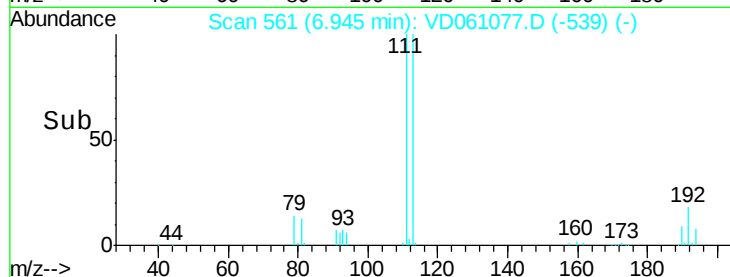
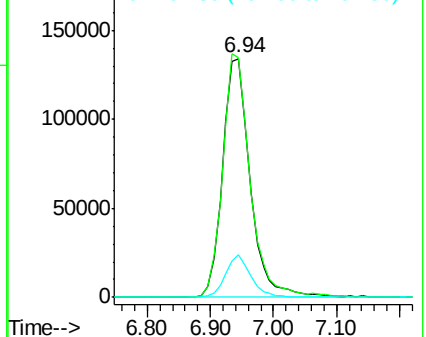
192 17.8 13.1 19.7



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: 4.493 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

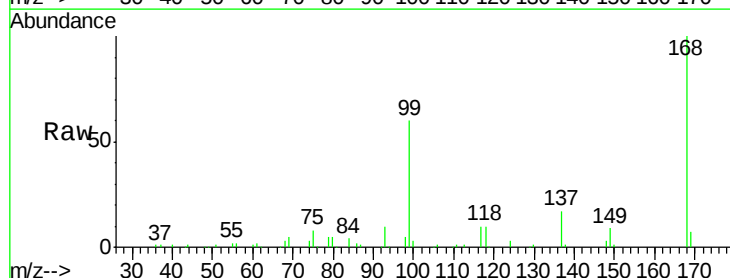
Tgt Ion: 75 Resp: 41338

Ion Ratio Lower Upper

75 100

110 6.0 19.7 59.1#

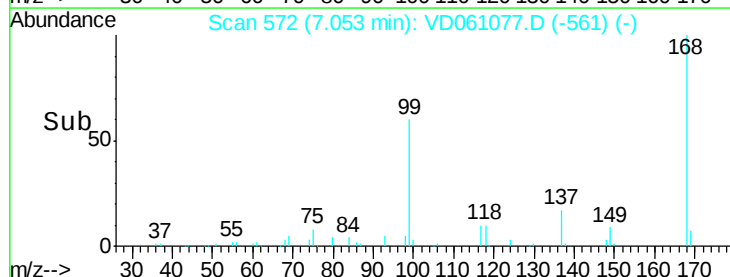
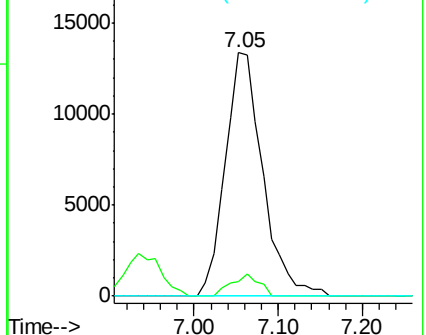
77 0.0 24.7 37.1#

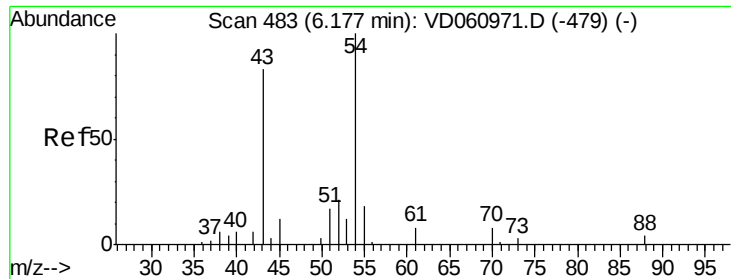


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

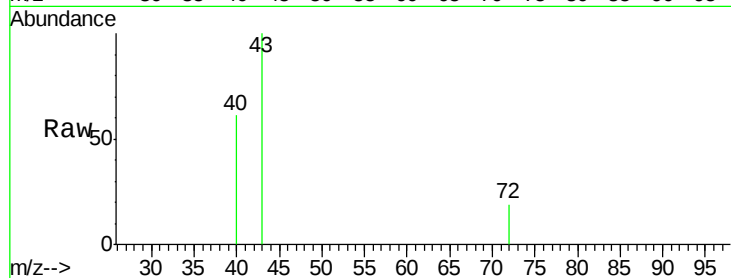




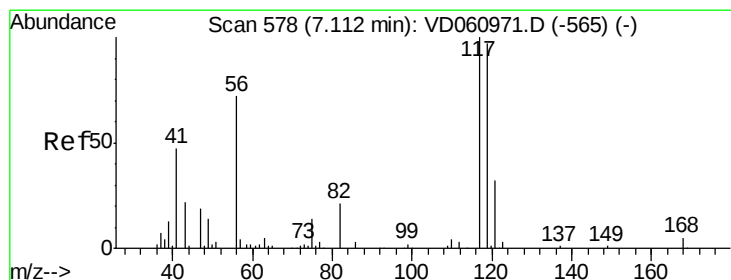
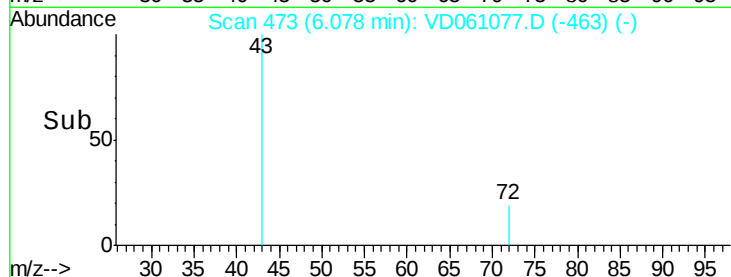
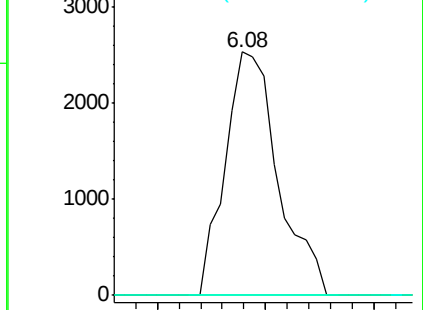
#37
Ethyl Acetate
Concen: 2.004 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.10 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

Instrument :
MSVOA_D
ClientSampleId :
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Tot Ion: 43 Resp: 8655
Ion Ratio Lower Upper
43 100
61 0.0 13.7 20.5#
70 0.0 7.1 10.7#

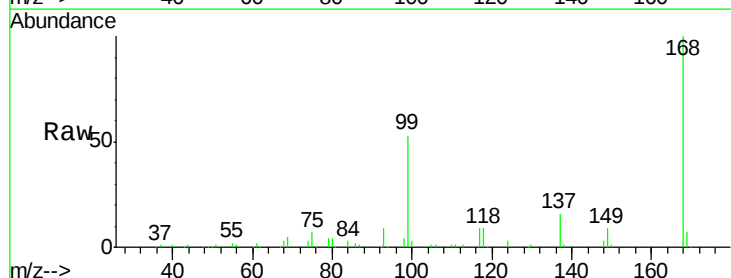


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

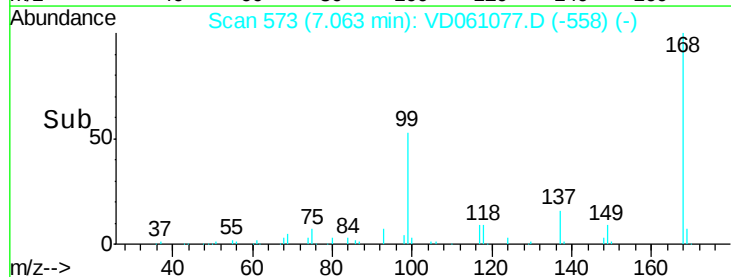
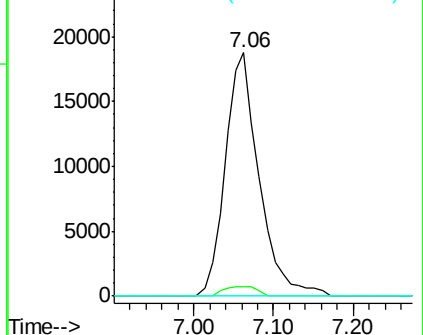


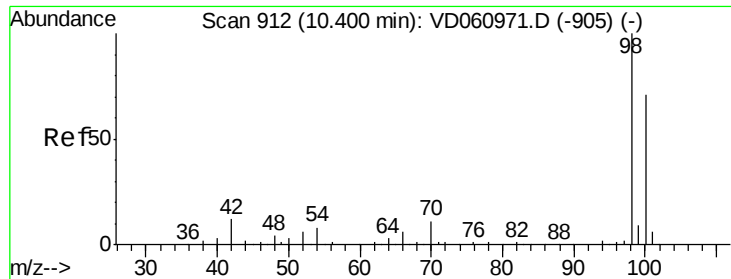
#38
Carbon Tetrachloride
Concen: 5.479 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.05 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

Tgt Ion: 117 Resp: 55537
Ion Ratio Lower Upper
117 100
119 4.0 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

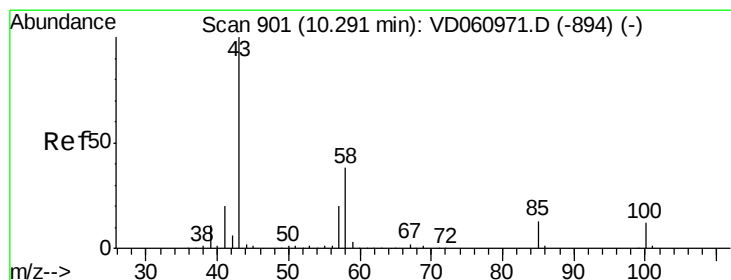
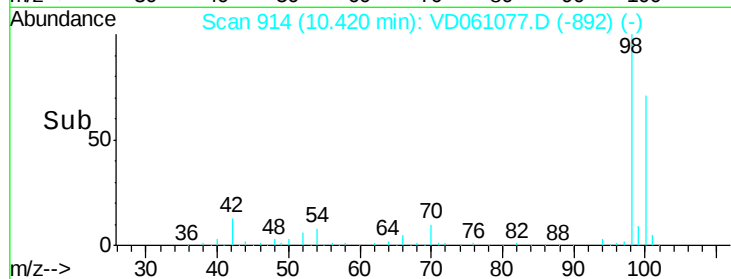
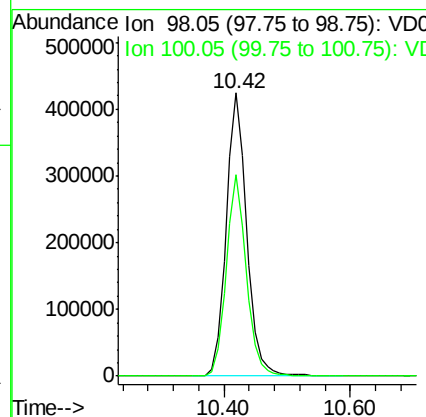
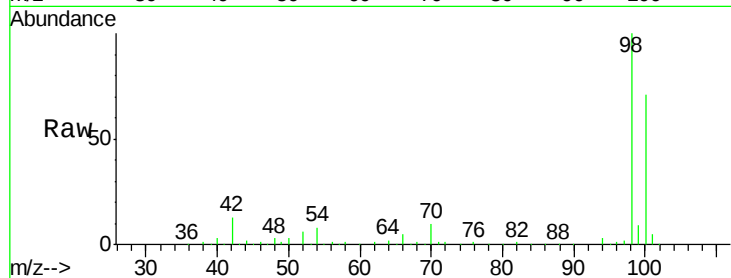




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

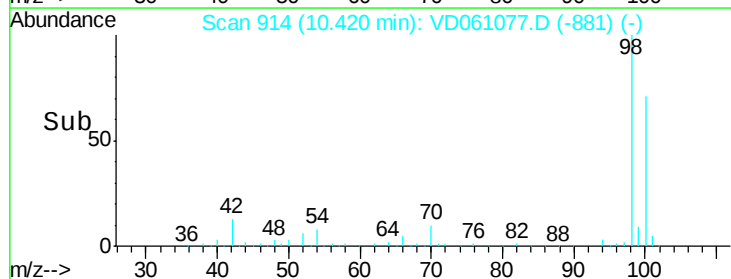
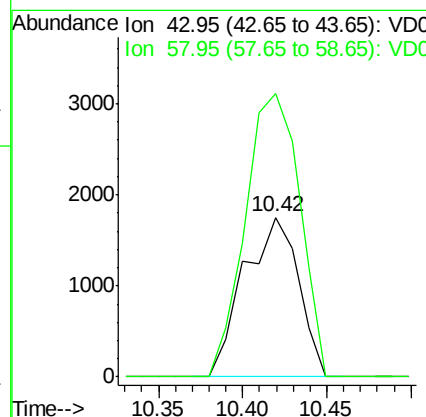
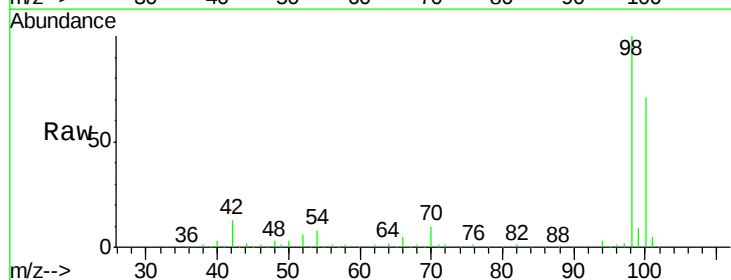
Instrument :
MSVOA_D
ClientSampleId :
93-94

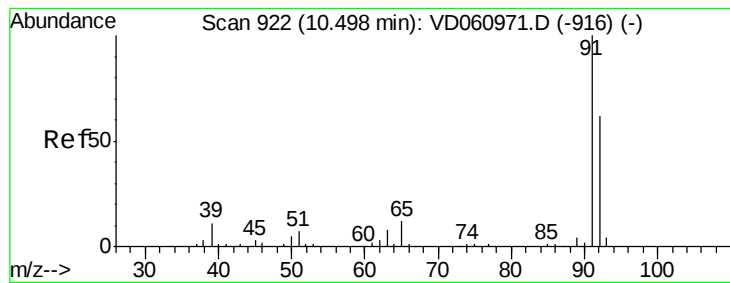
Tot Ion: 98 Resp: 959846
Ion Ratio Lower Upper
98 100
100 71.2 57.4 86.2



#51
4-Methyl-2-Pentanone
Concen: 1.068 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.13 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

Tgt Ion: 43 Resp: 3914
Ion Ratio Lower Upper
43 100
58 177.7 30.2 45.2#





#52

Toluene

Concen: 2.902 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

Instrument :

MSVOA_D

ClientSampleId :

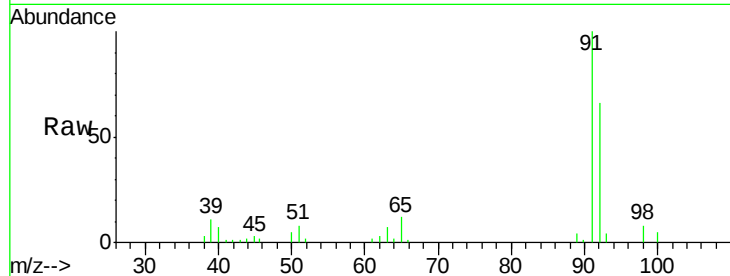
93-94

Tot Ion: 92 Resp: 41486

Ion Ratio Lower Upper

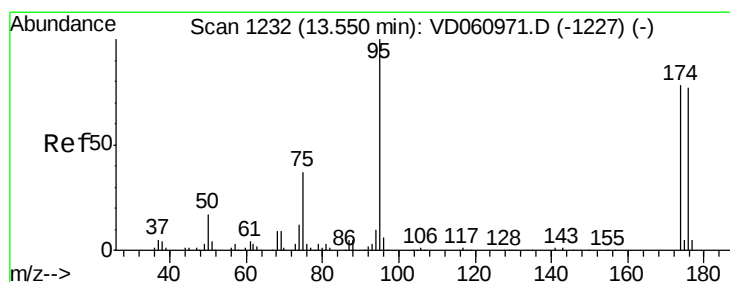
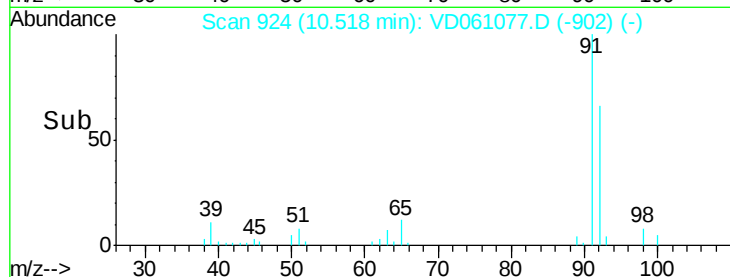
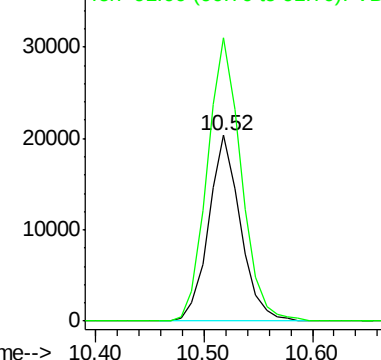
92 100

91 152.2 129.8 194.8



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: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

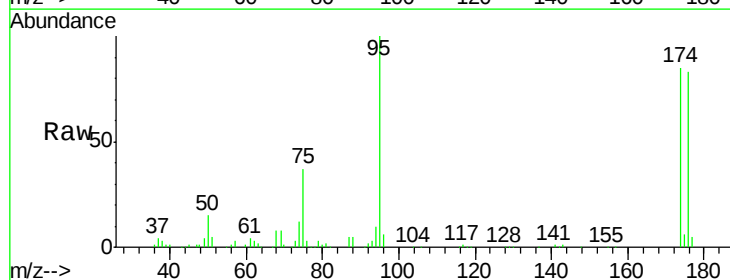
Tgt Ion: 95 Resp: 326259

Ion Ratio Lower Upper

95 100

174 84.8 0.0 155.6

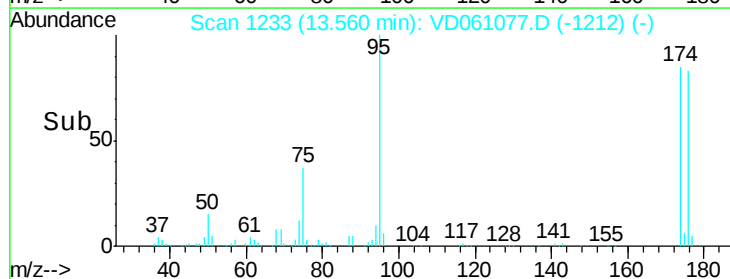
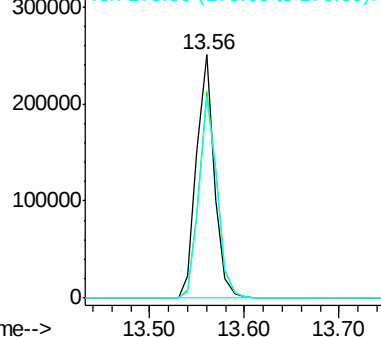
176 82.8 0.0 153.8

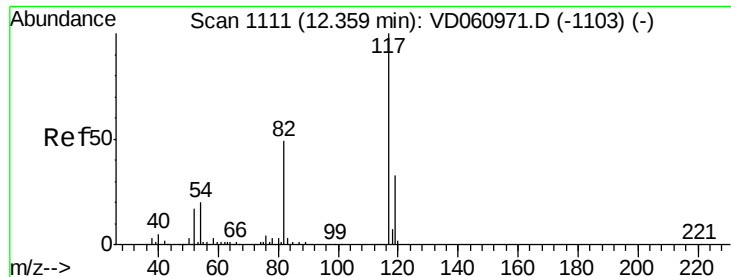


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

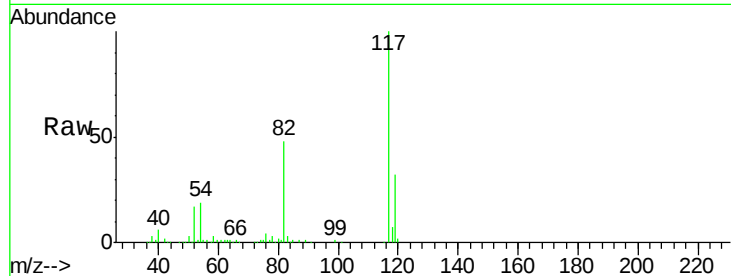




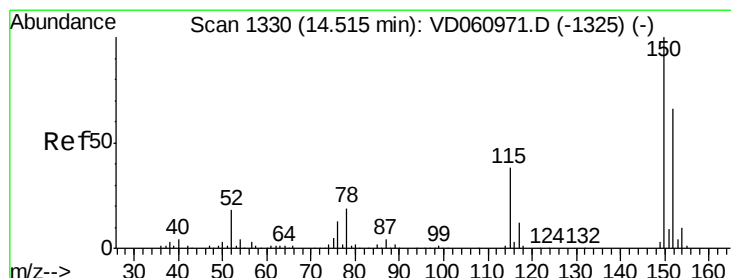
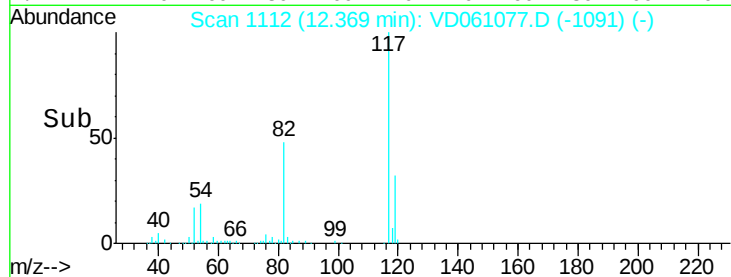
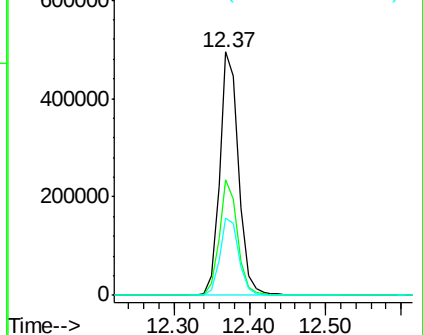
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

Instrument :
MSVOA_D
ClientSampleId :
93-94

Tot Ion:117 Resp: 857260
Ion Ratio Lower Upper
117 100
82 47.7 38.9 58.3
119 31.8 26.6 39.8

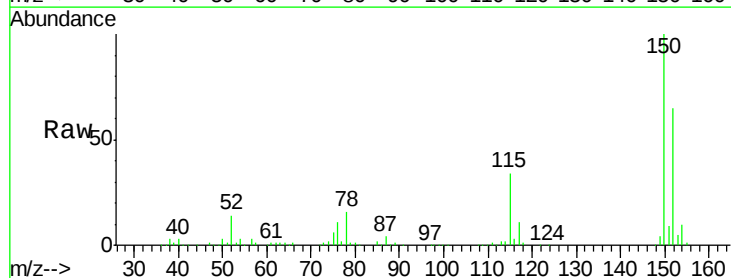


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

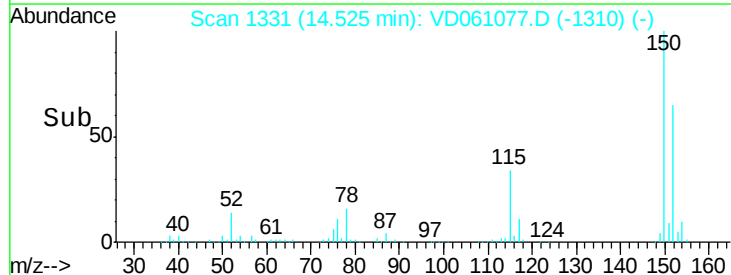
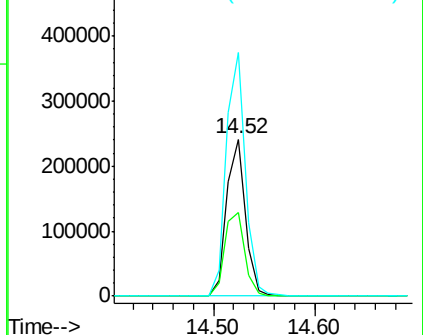


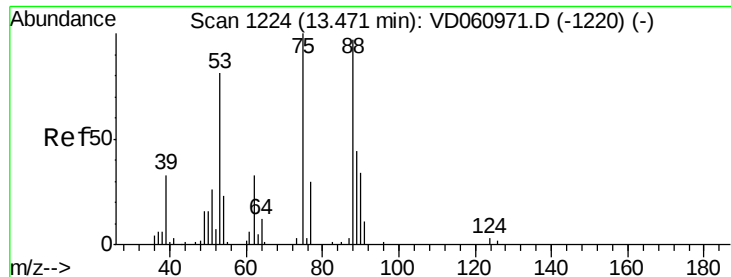
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD061077.D
Acq: 14 Mar 2019 20:58

Tgt Ion:152 Resp: 313232
Ion Ratio Lower Upper
152 100
115 53.3 28.6 85.9
150 154.9 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: 90.452 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061077.D

Acq: 14 Mar 2019 20:58

Instrument :

MSVOA_D

ClientSampleId :

93-94

Tot Ion: 75 Resp: 120173

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#

