

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\
 Data File : VD061231.D
 Acq On : 21 Mar 2019 3:44
 Operator : VA/AP
 Sample : K1688-29
 Misc : 5.66g/5ml/MSVOA D/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 02:07:24 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	7.04	168	537998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	963218	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	662537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	197068	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	187160	41.79	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	83.58%	
35) Dibromofluoromethane	6.92	113	288589	40.37	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	80.74%	
50) Toluene-d8	10.41	98	567537	31.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	63.24%	
62) 4-Bromofluorobenzene	13.55	95	162080	23.27	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	46.54%	

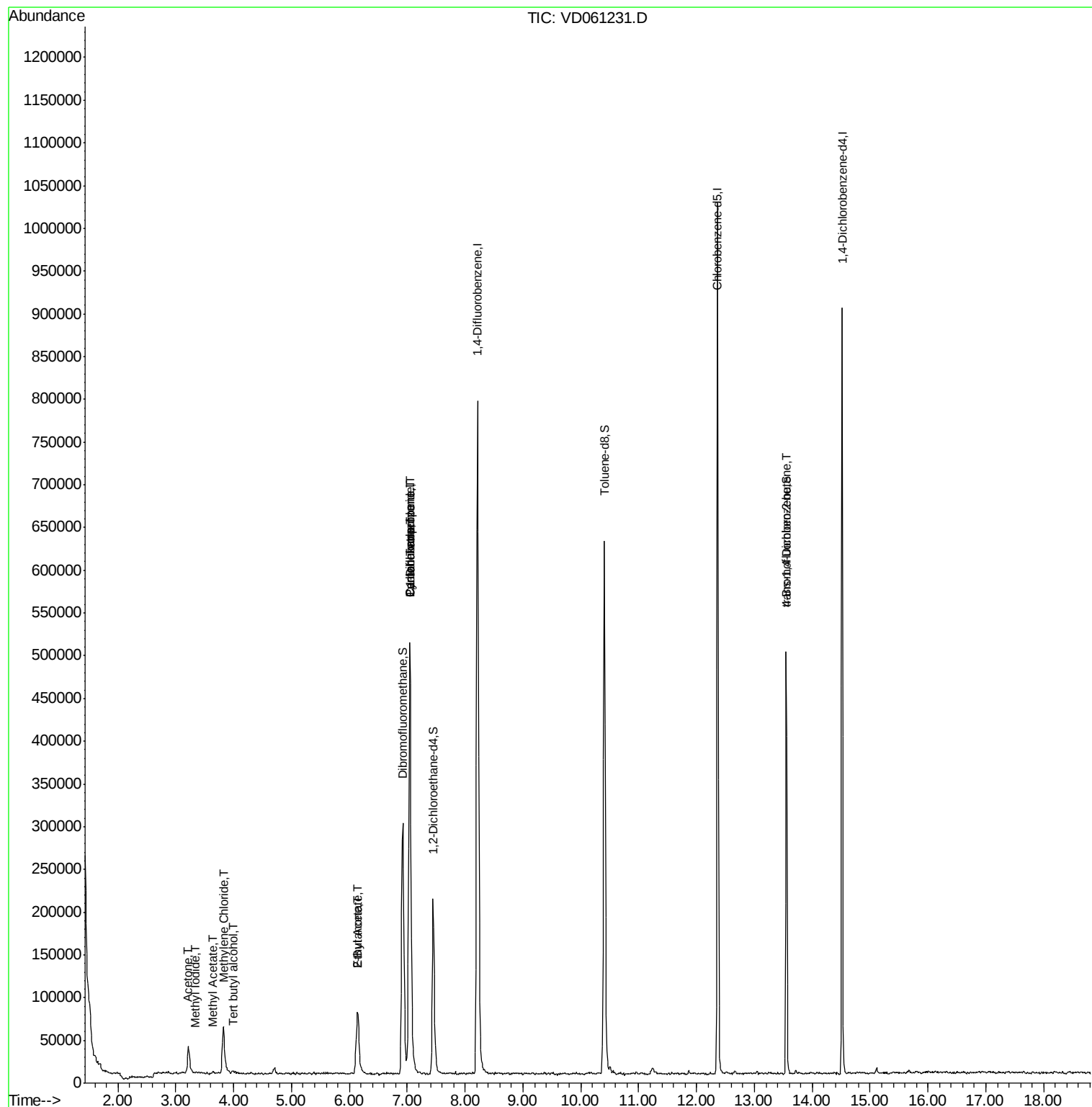
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.33	142	193	2.954	ug/l #	39
11) Tert butyl alcohol	3.99	59	3639	12.764	ug/l #	75
16) Acetone	3.21	43	62373	48.707	ug/l	99
18) Methyl Acetate	3.65	43	3161	1.254	ug/l #	59
20) Methylene Chloride	3.81	84	46495	3.639	ug/l #	85
25) 2-Butanone	6.15	43	4618	3.178	ug/l #	55
31) Cyclohexane	7.04	56	9605	1.212	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	39839	4.798	ug/l #	46
37) Ethyl Acetate	6.15	43	4618	1.185	ug/l #	1
38) Carbon Tetrachloride	7.04	117	50515	5.523	ug/l #	15
81) trans-1,4-Dichloro-2-buten	13.55	75	61510	73.588	ug/l #	17

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

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QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

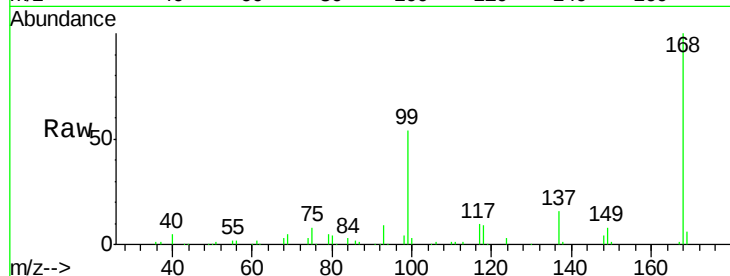
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 537998

Ion Ratio Lower Upper

168 100

99 54.1 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

200000

150000

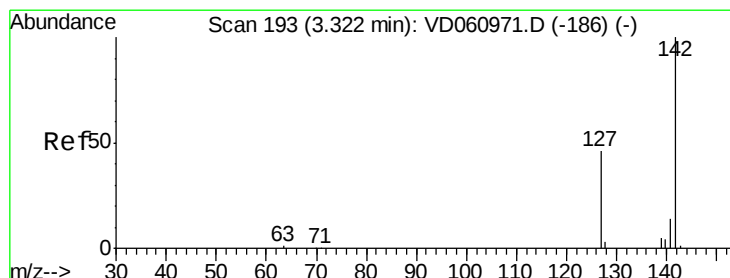
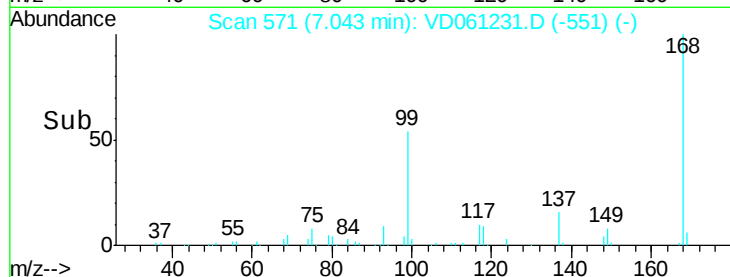
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 2.954 ug/l

RT: 3.33 min Scan# 194

Delta R.T. 0.01 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

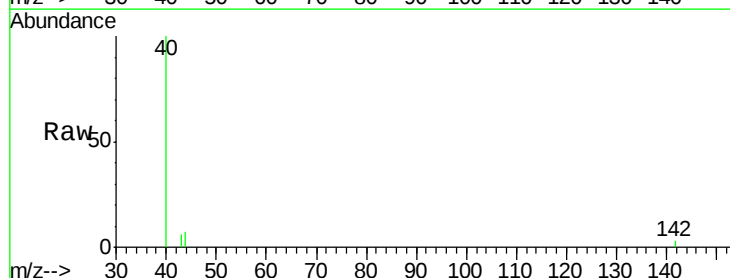
Tgt Ion:142 Resp: 193

Ion Ratio Lower Upper

142 100

127 0.0 36.8 55.2#

141 0.0 11.2 16.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.33

400

300

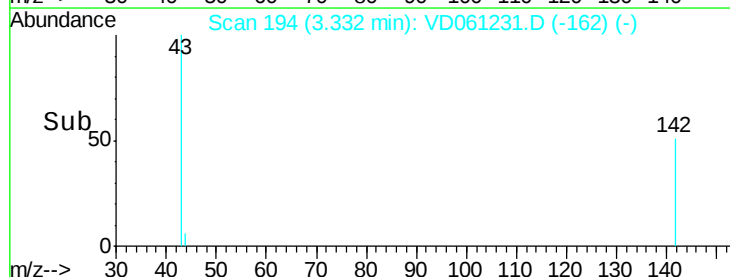
200

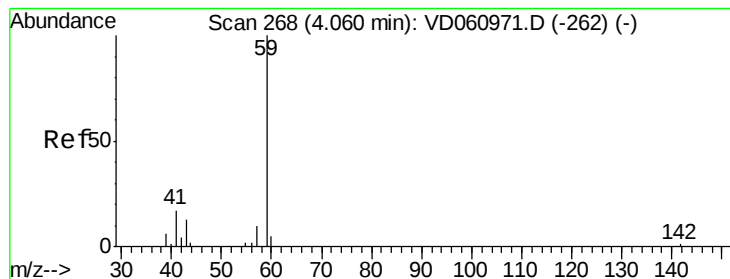
100

0

3.30 3.32 3.34 3.36

Time-->



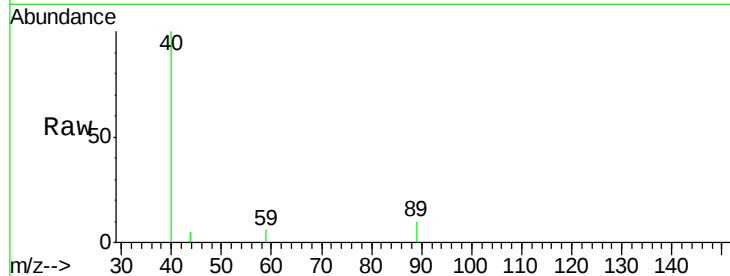


#11

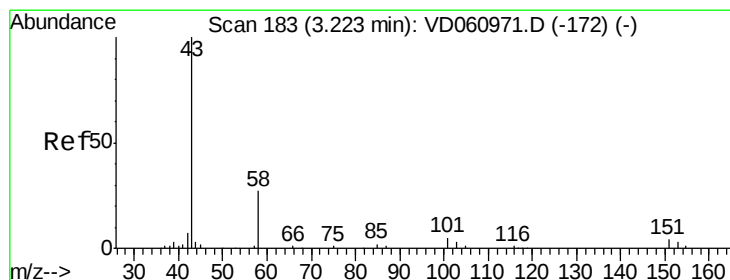
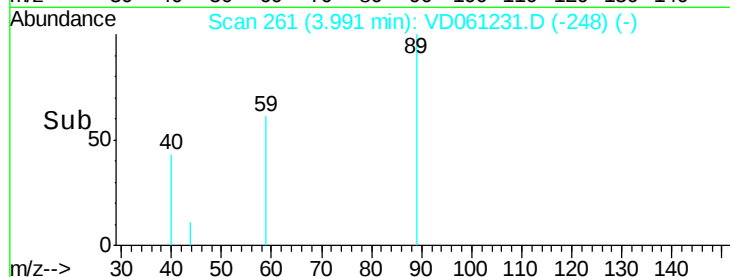
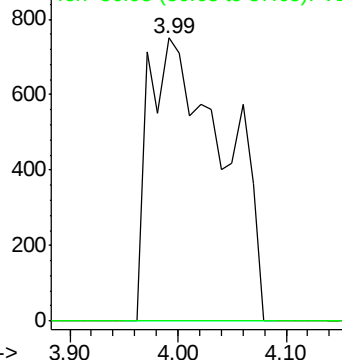
Tert butyl alcohol
Concen: 12.764 ug/l
RT: 3.99 min Scan# 261
Delta R.T. -0.07 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 59 Resp: 3639
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#



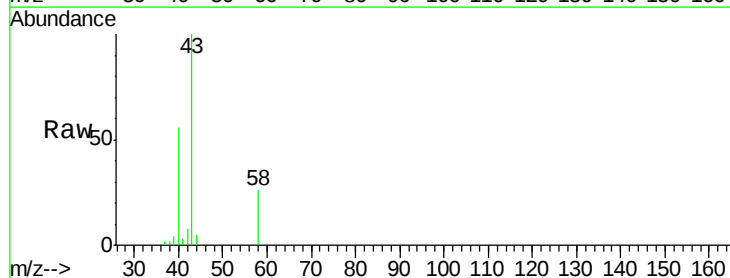
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



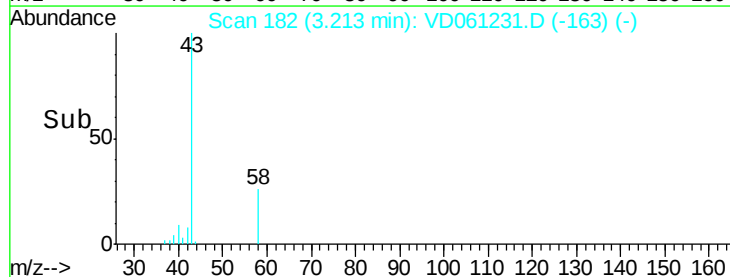
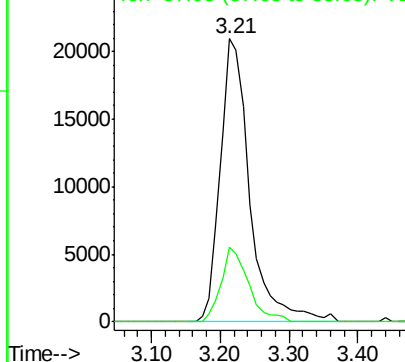
#16

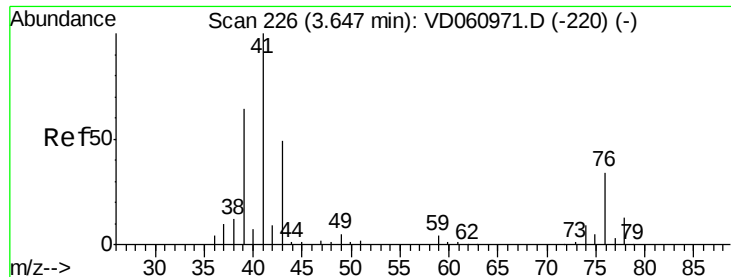
Acetone
Concen: 48.707 ug/l
RT: 3.21 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

Tgt Ion: 43 Resp: 62373
Ion Ratio Lower Upper
43 100
58 26.5 21.6 32.4



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

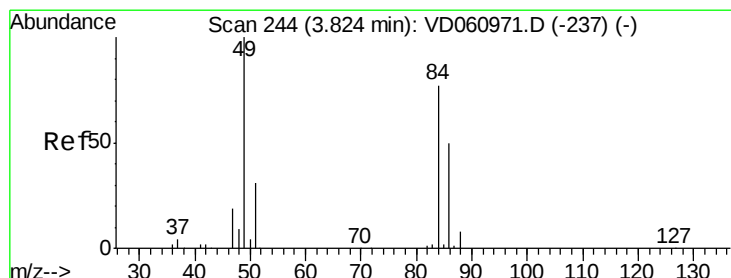
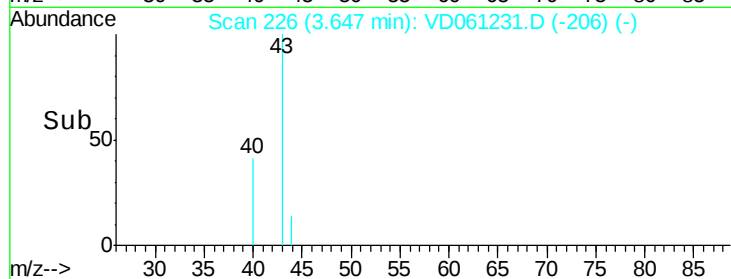
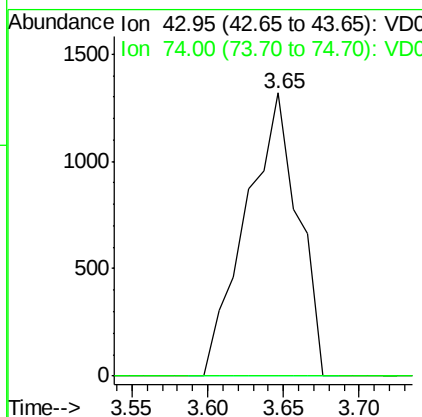
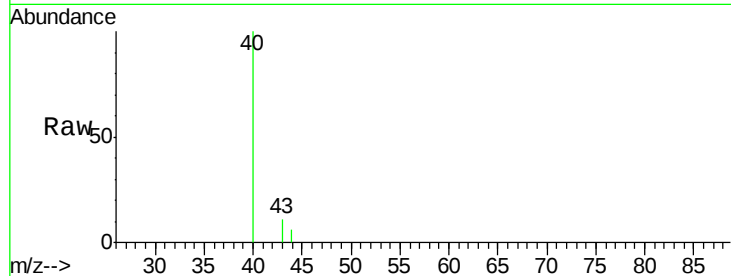




#18
Methyl Acetate
Concen: 1.254 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.00 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

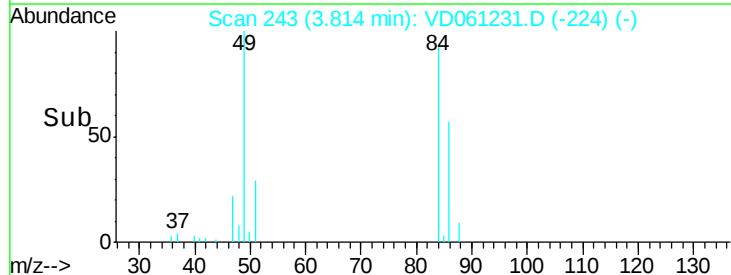
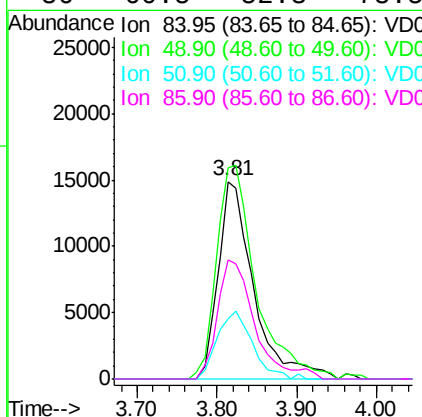
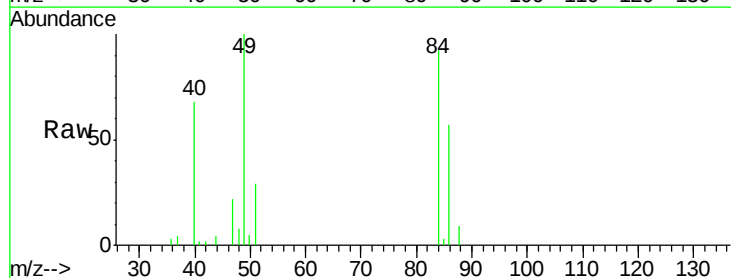
Instrument :
MSVOA_D
ClientSampled :

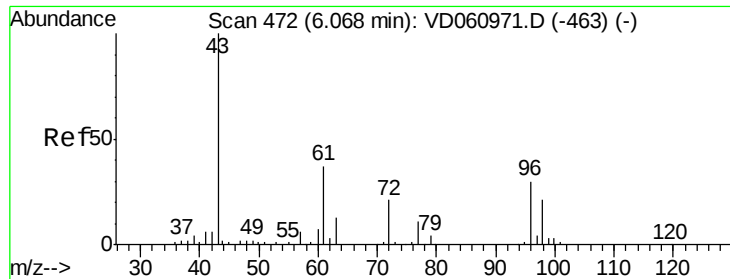
Tot Ion: 43 Resp: 3161
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#20
Methylene Chloride
Concen: 3.639 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

Tgt Ion: 84 Resp: 46495
Ion Ratio Lower Upper
84 100
49 107.1 104.2 156.2
51 30.8 32.3 48.5#
86 60.5 52.3 78.5

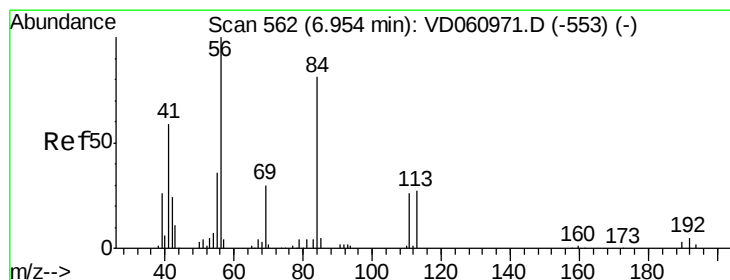
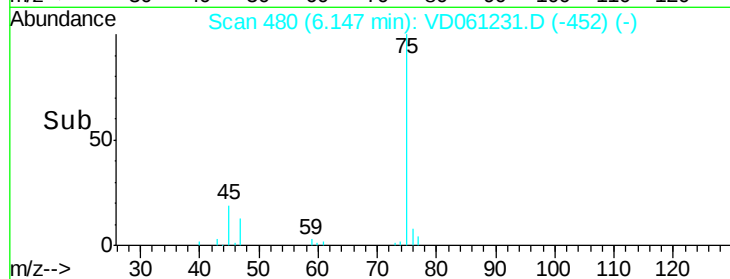
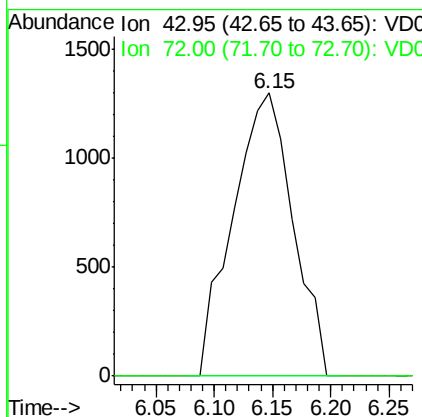
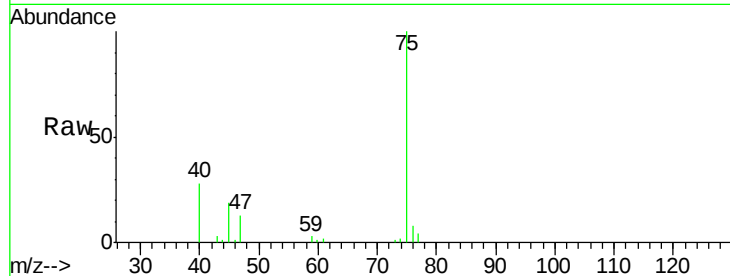




#25
2-Butanone
Concen: 3.178 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.08 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

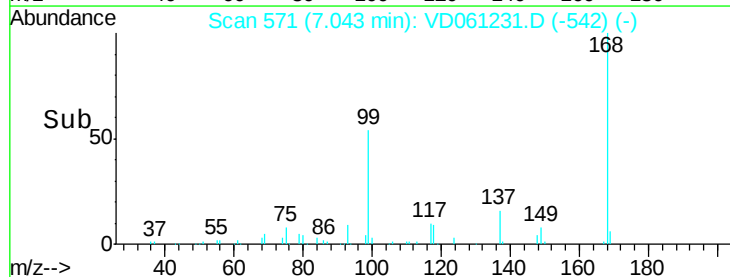
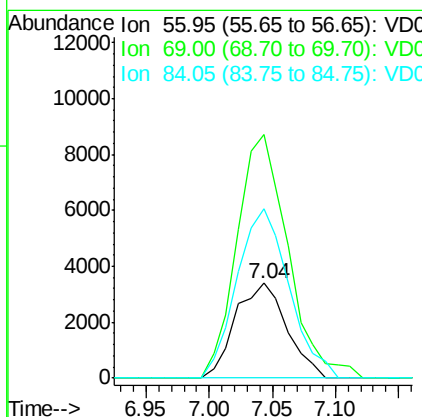
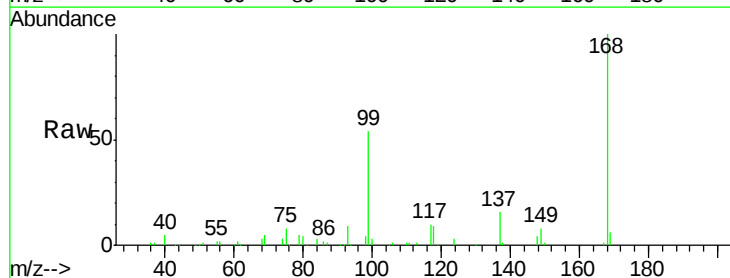
Instrument :
MSVOA_D
ClientSampled :

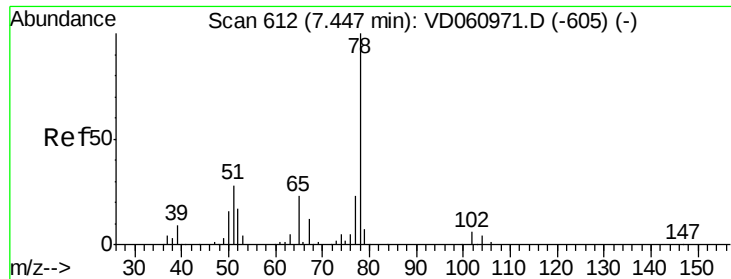
Tot Ion: 43 Resp: 4618
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#



#31
Cyclohexane
Concen: 1.212 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.09 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

Tgt Ion: 56 Resp: 9605
Ion Ratio Lower Upper
56 100
69 257.3 24.0 36.0#
84 178.4 65.8 98.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

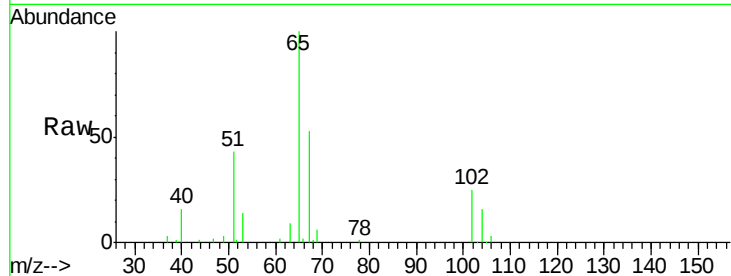
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 187160

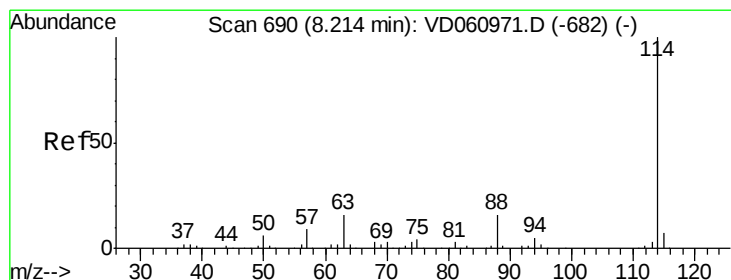
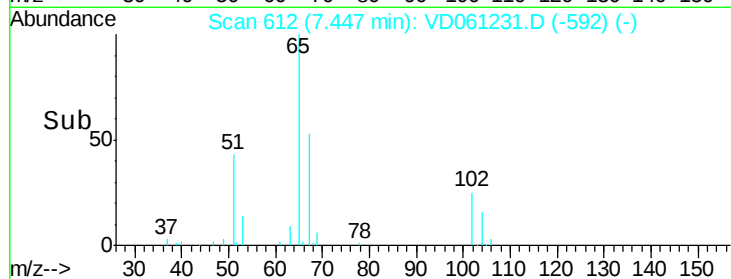
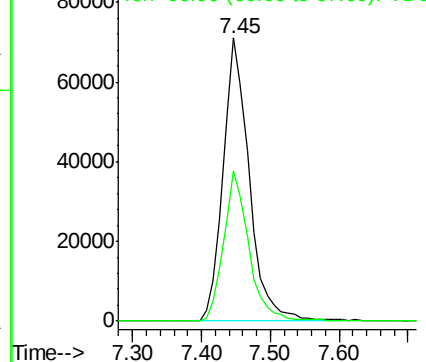
Ion Ratio Lower Upper

65 100

67 53.1 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: 8.21 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

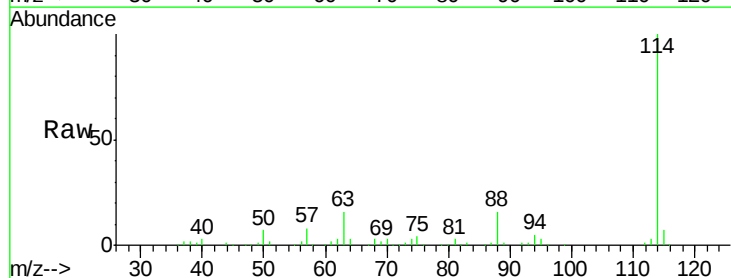
Tgt Ion: 114 Resp: 963218

Ion Ratio Lower Upper

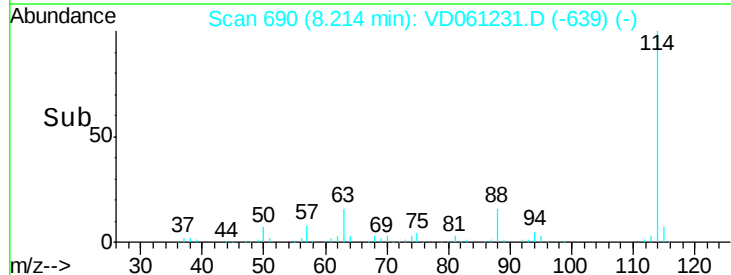
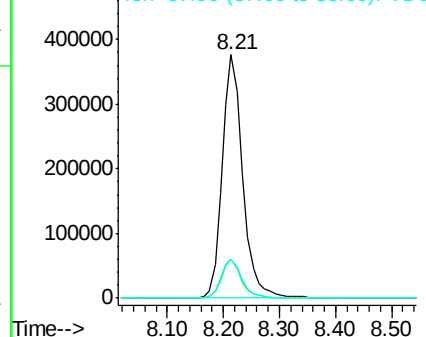
114 100

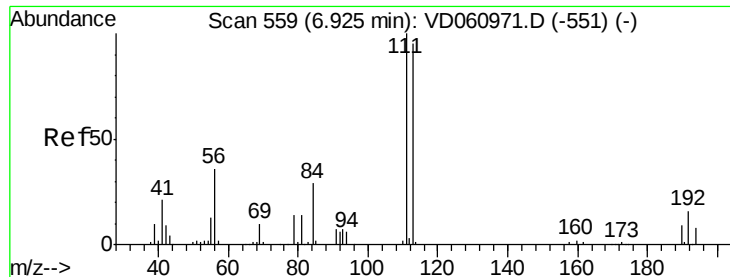
63 15.9 0.0 31.4

88 15.8 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): VDC
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: 6.92 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

Instrument :
MSVOA_D
ClientSampleId :

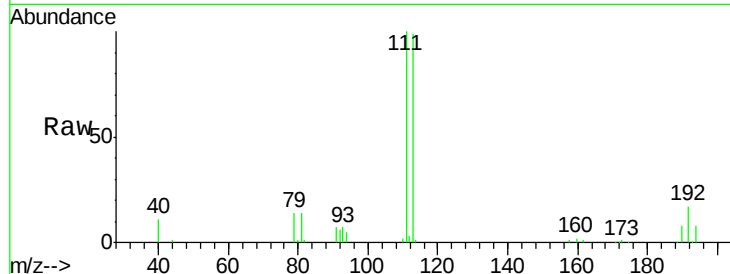
Tot Ion:113 Resp: 288589

Ion Ratio Lower Upper

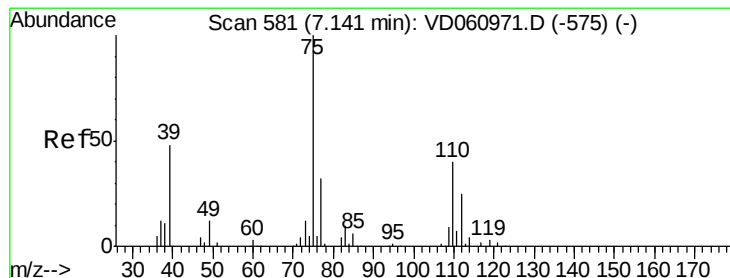
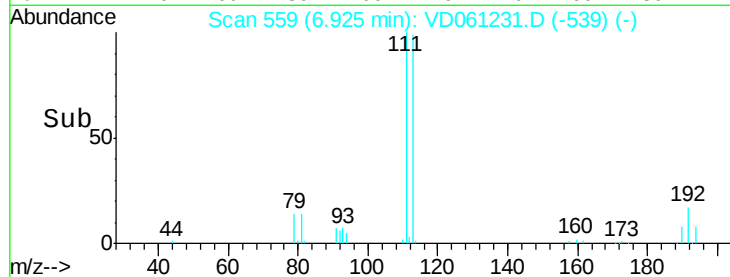
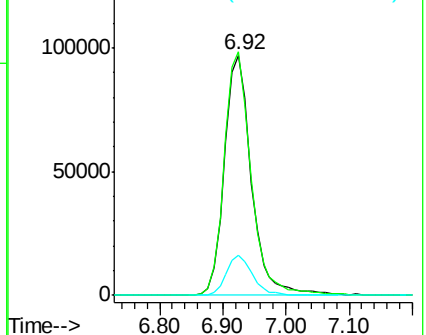
113 100

111 101.4 84.2 126.4

192 16.9 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: 4.798 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

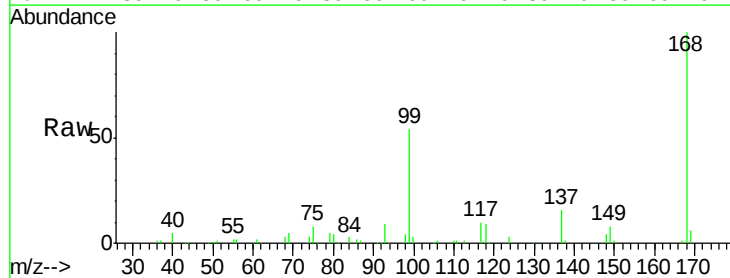
Tgt Ion: 75 Resp: 39839

Ion Ratio Lower Upper

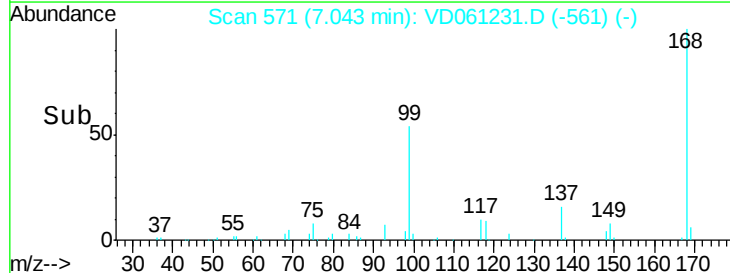
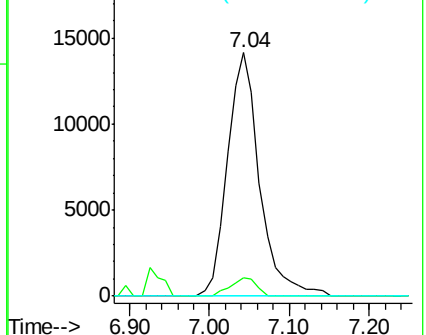
75 100

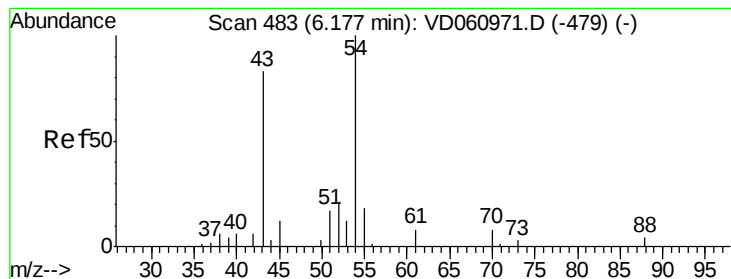
110 7.5 19.7 59.1#

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: 1.185 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

Instrument :

MSVOA_D

ClientSampleId :

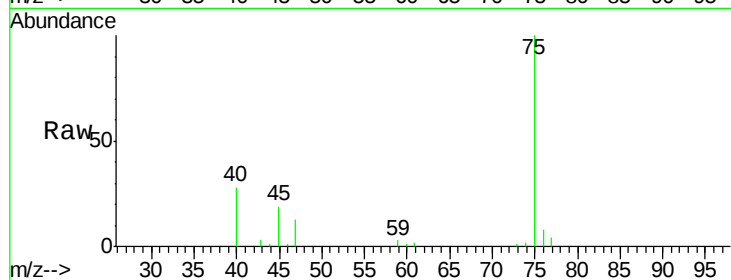
Tot Ion: 43 Resp: 4618

Ion Ratio Lower Upper

43 100

61 77.9 13.7 20.5#

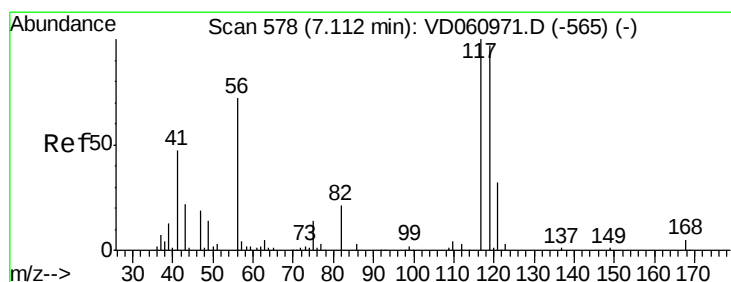
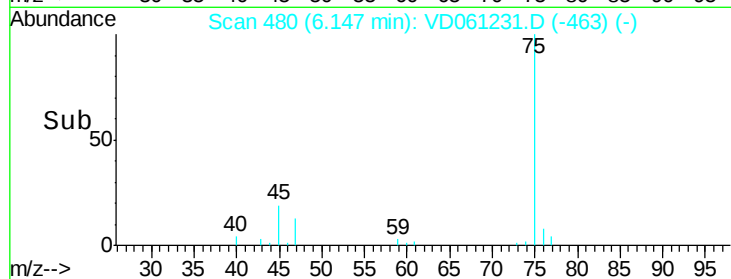
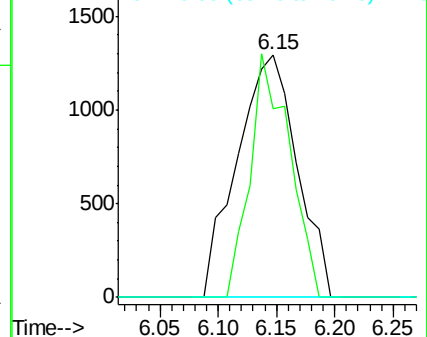
70 0.0 7.1 10.7#



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: 5.523 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

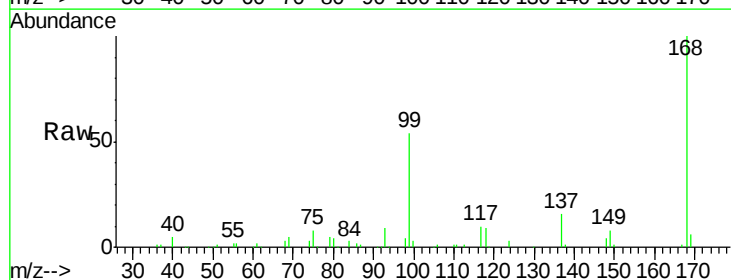
Tgt Ion: 117 Resp: 50515

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.8#

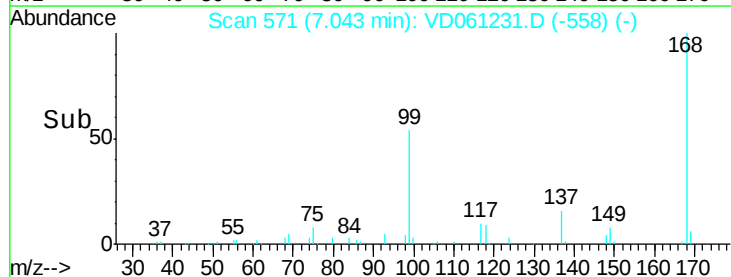
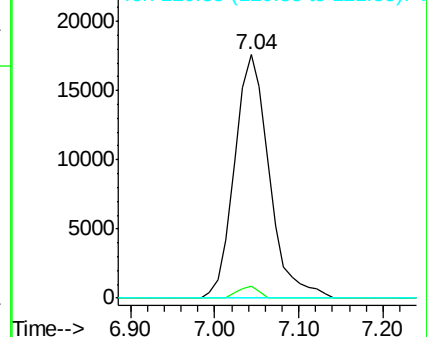
121 0.0 25.3 37.9#

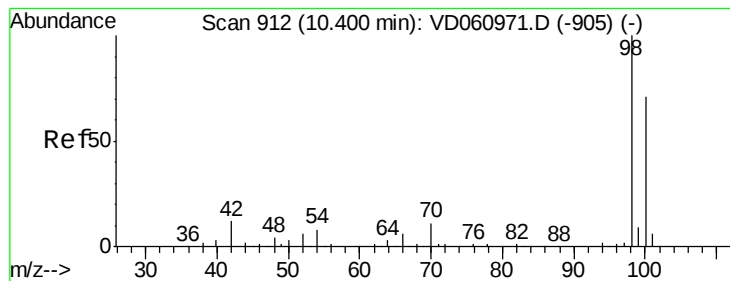


Abundance Ion 116.85 (116.55 to 117.55): V

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: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

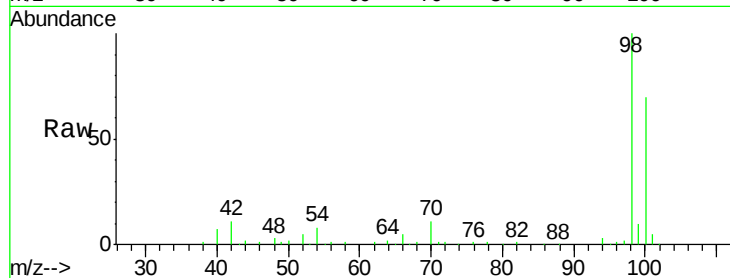
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 567537

Ion Ratio Lower Upper

98 100

100 69.7 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

250000

200000

150000

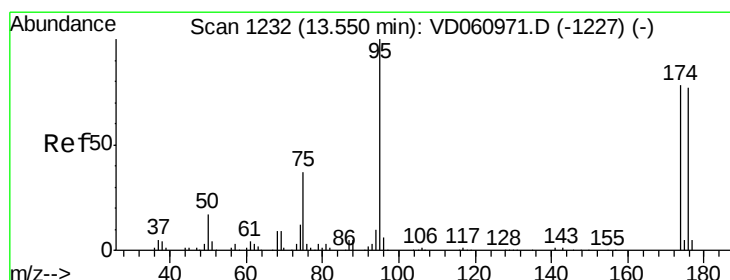
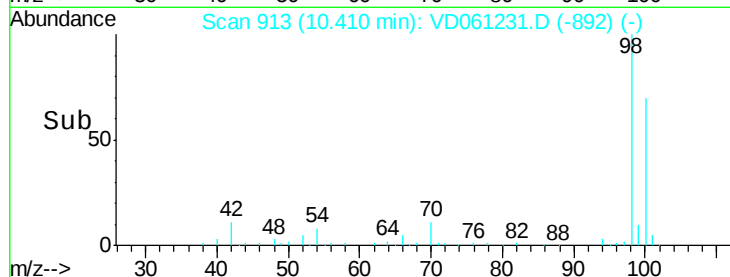
100000

50000

0

10.30 10.40 10.50 10.60

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

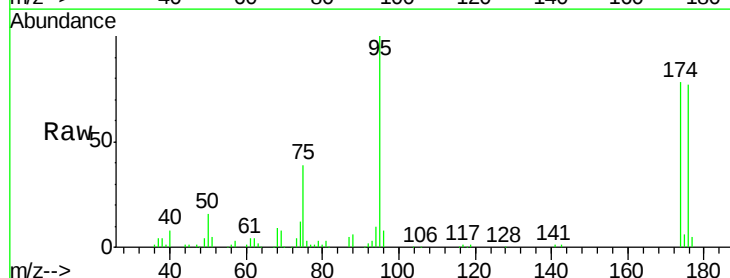
Tgt Ion: 95 Resp: 162080

Ion Ratio Lower Upper

95 100

174 77.9 0.0 155.6

176 77.3 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

150000

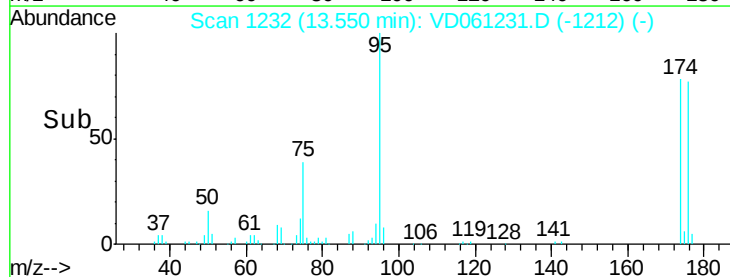
100000

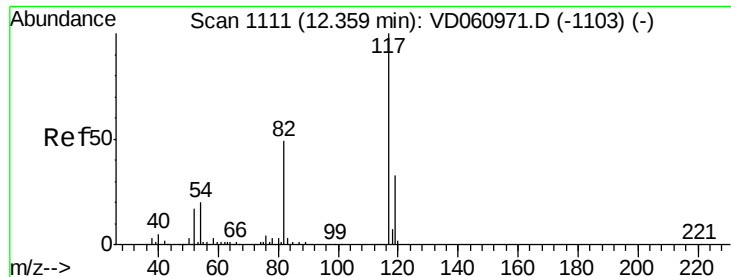
50000

0

13.50 13.55 13.60 13.65

Time-->

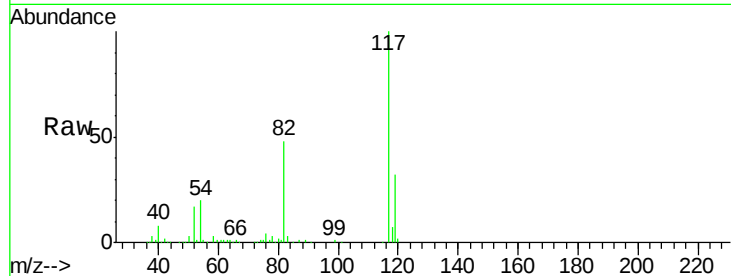




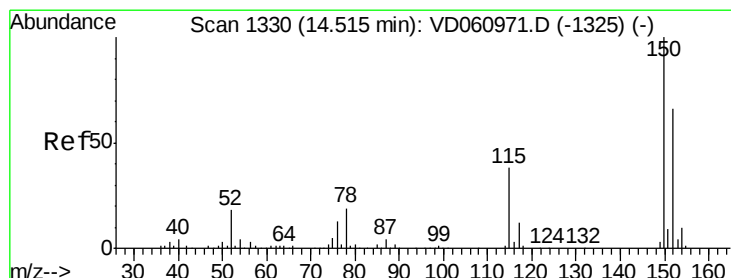
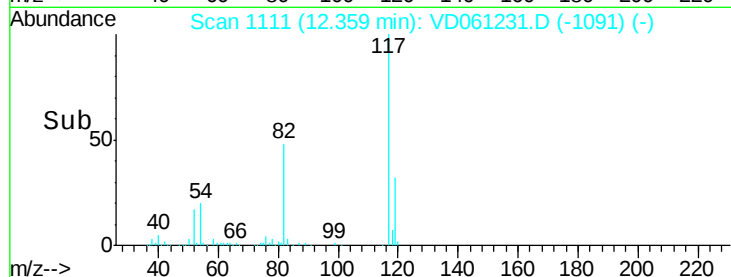
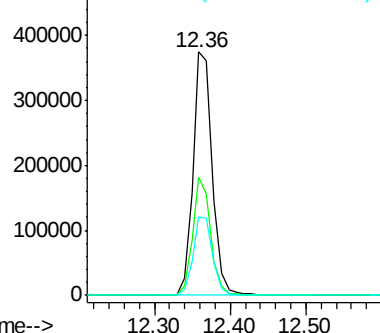
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 662537
Ion Ratio Lower Upper
117 100
82 48.3 38.9 58.3
119 32.4 26.6 39.8

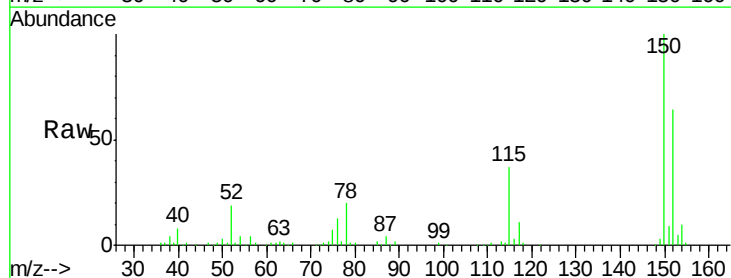


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

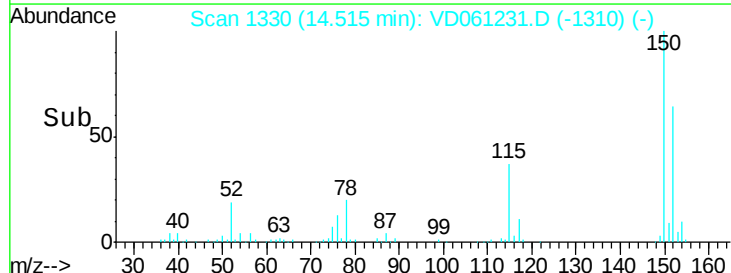
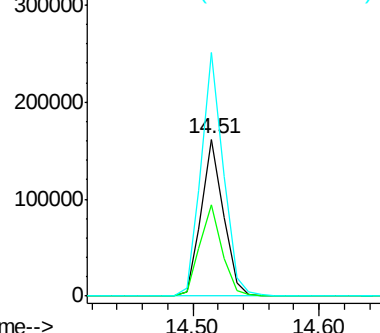


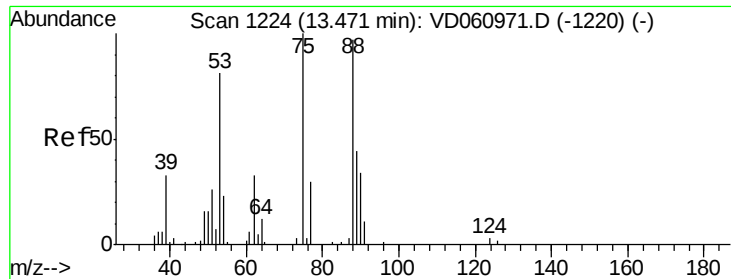
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061231.D
Acq: 21 Mar 2019 3:44

Tgt Ion:152 Resp: 197068
Ion Ratio Lower Upper
152 100
115 58.1 28.6 85.9
150 155.2 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: 73.588 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061231.D

Acq: 21 Mar 2019 3:44

Instrument :

MSVOA_D

ClientSampleId :

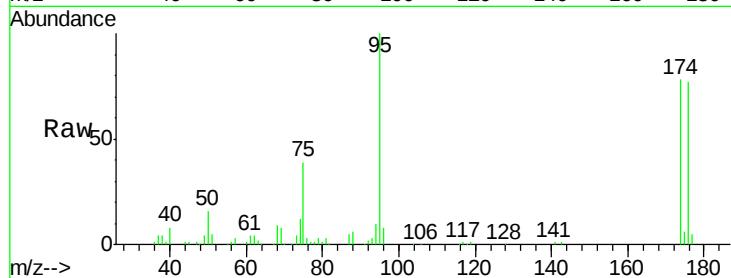
Tot Ion: 75 Resp: 61510

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

