

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040419\
 Data File : VD061580.D
 Acq On : 4 Apr 2019 15:49
 Operator : VA/AP
 Sample : K2219-02RE
 Misc : 5.79g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 05 08:55:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	520104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	863332	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	671482	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	234925	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	196622	44.25	ug/l	0.00
Spiked Amount			Recovery	=	88.50%	
35) Dibromofluoromethane	6.90	113	302121	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
50) Toluene-d8	10.39	98	571247	36.10	ug/l	0.00
Spiked Amount			Recovery	=	72.20%	
62) 4-Bromofluorobenzene	13.54	95	198688	32.74	ug/l	0.00
Spiked Amount			Recovery	=	65.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.31	142	2840	3.733	ug/l #	38
11) Tert butyl alcohol	3.96	59	2008	7.257	ug/l #	76
16) Acetone	3.20	43	5661	4.957	ug/l	99
18) Methyl Acetate	3.64	43	3434	1.430	ug/l #	55
20) Methylene Chloride	3.80	84	99098	14.110	ug/l	98
31) Cyclohexane	7.01	56	8576	1.121	ug/l #	1
36) 1,1-Dichloropropene	7.01	75	35467	4.707	ug/l #	45
38) Carbon Tetrachloride	7.02	117	47761	5.516	ug/l #	15
81) trans-1,4-Dichloro-2-buten	13.54	75	71962	69.549	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

Instrument :

MSVOA_D

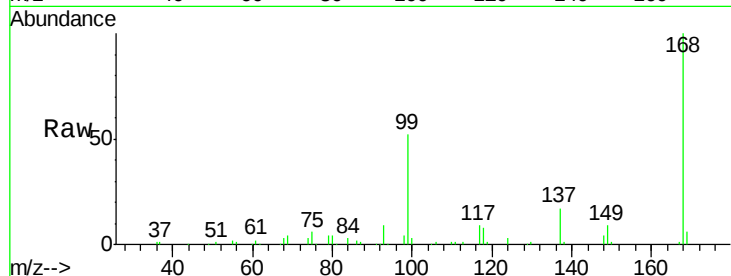
ClientSampleId :

Tot Ion:168 Resp: 520104

Ion Ratio Lower Upper

168 100

99 52.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.02

200000

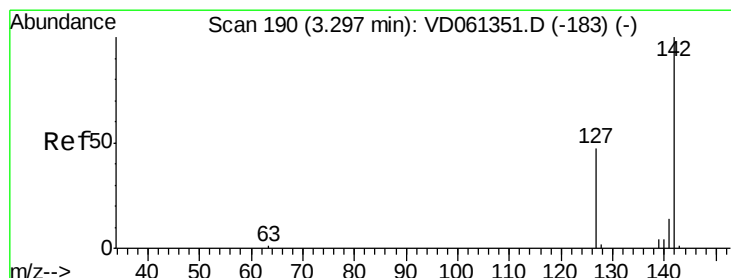
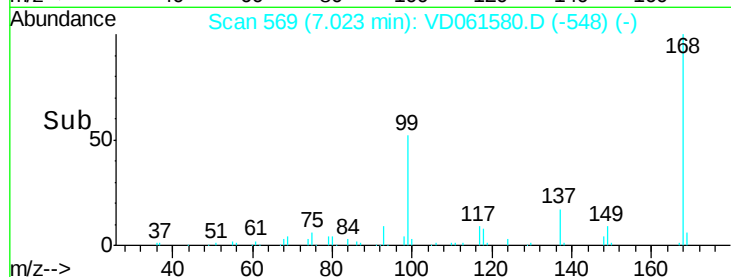
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 3.733 ug/l

RT: 3.31 min Scan# 192

Delta R.T. 0.02 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

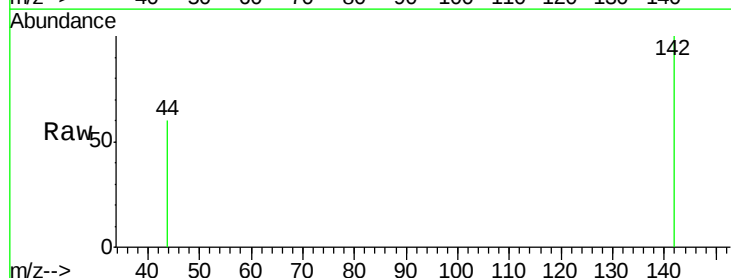
Tgt Ion:142 Resp: 2840

Ion Ratio Lower Upper

142 100

127 0.0 37.7 56.5#

141 0.0 11.5 17.3#



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

3.31

1200

1000

800

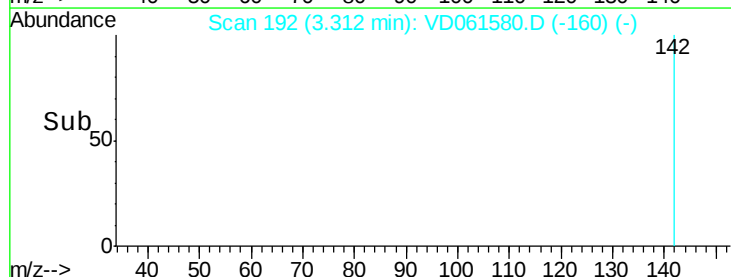
600

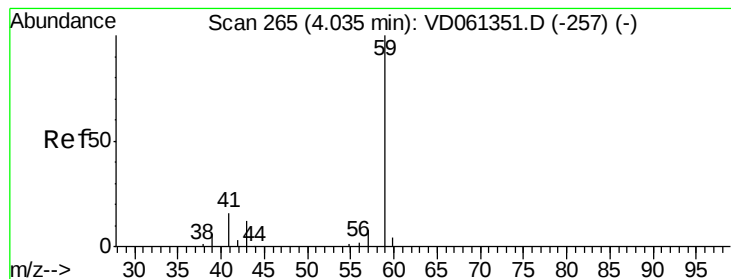
400

200

0

Time-->



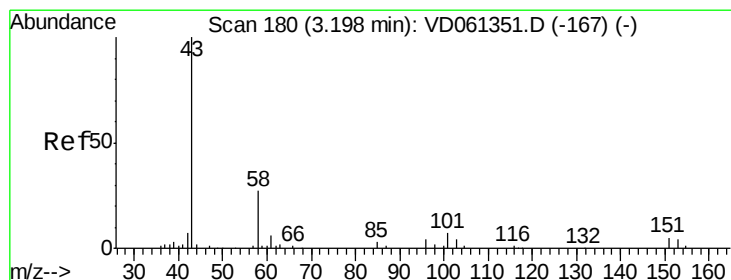
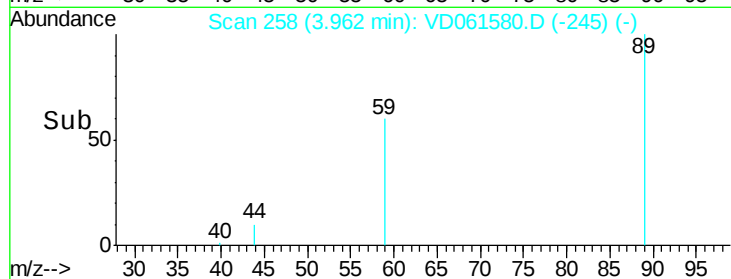
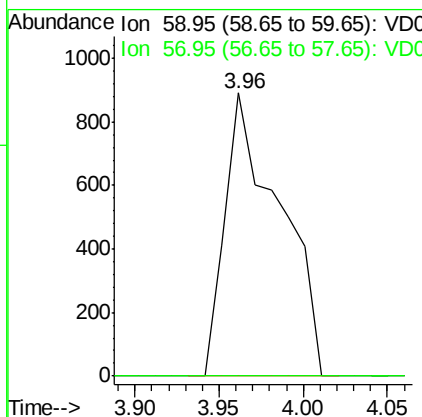
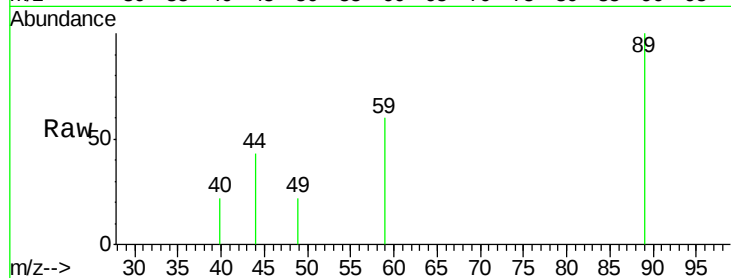


#11

Tert butyl alcohol
 Concen: 7.257 ug/l
 RT: 3.96 min Scan# 258
 Delta R.T. -0.07 min
 Lab File: VD061580.D
 Acq: 4 Apr 2019 15:49

Instrument :
 MSVOA_D
 ClientSampleId :

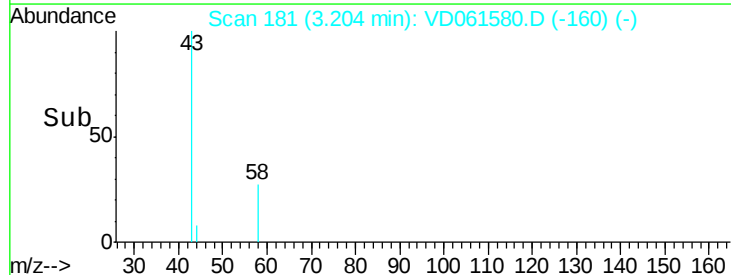
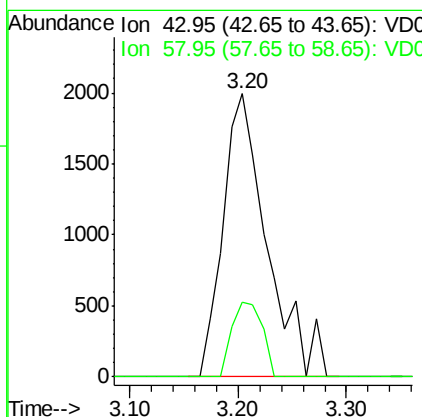
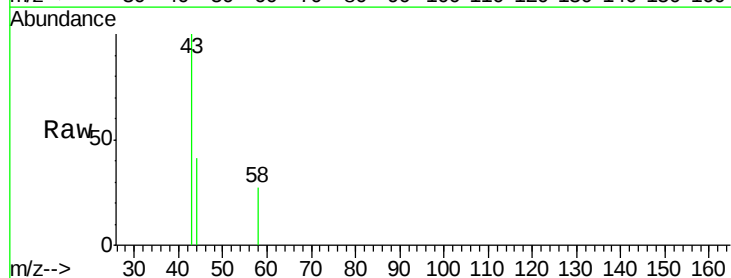
Tot Ion: 59 Resp: 2008
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#

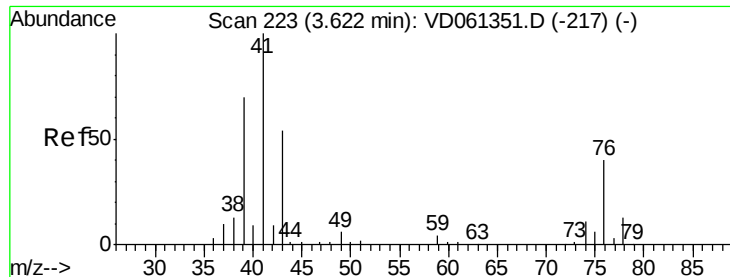


#16

Acetone
 Concen: 4.957 ug/l
 RT: 3.20 min Scan# 181
 Delta R.T. 0.01 min
 Lab File: VD061580.D
 Acq: 4 Apr 2019 15:49

Tgt Ion: 43 Resp: 5661
 Ion Ratio Lower Upper
 43 100
 58 26.5 21.5 32.3

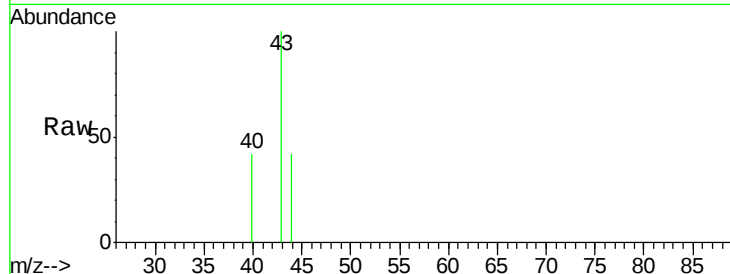




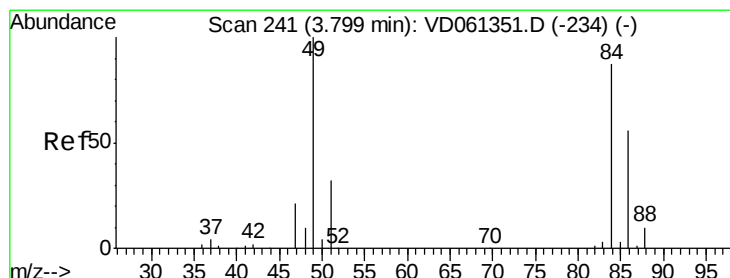
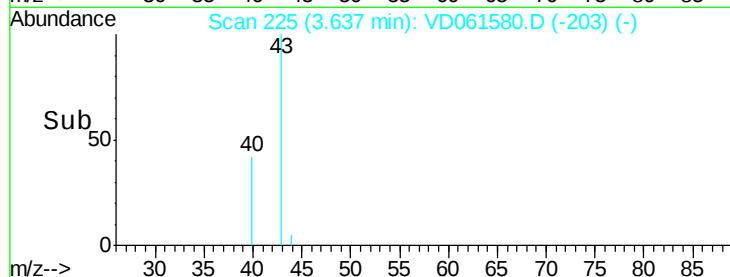
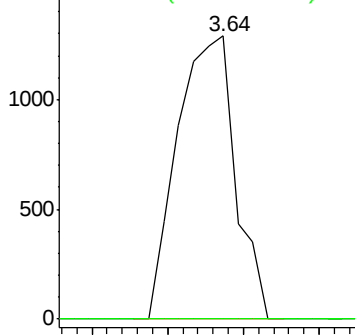
#18
Methyl Acetate
Concen: 1.430 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.02 min
Lab File: VD061580.D
Acq: 4 Apr 2019 15:49

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 3434
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#

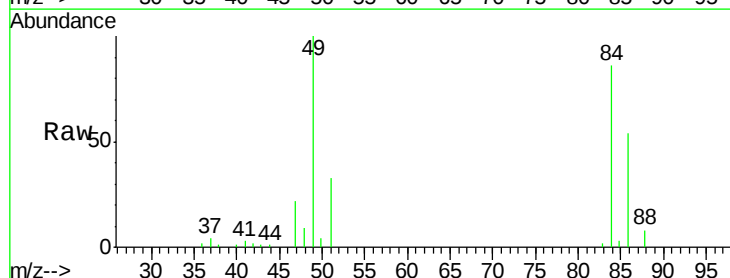


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

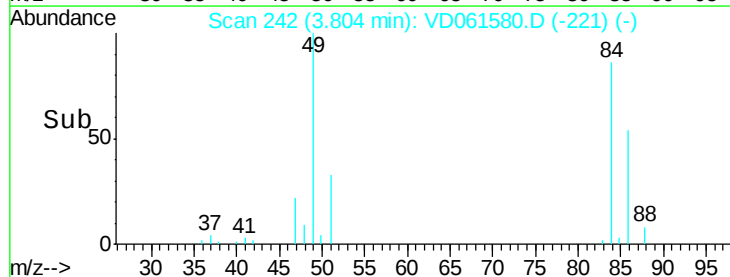
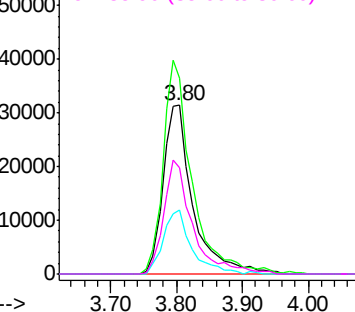


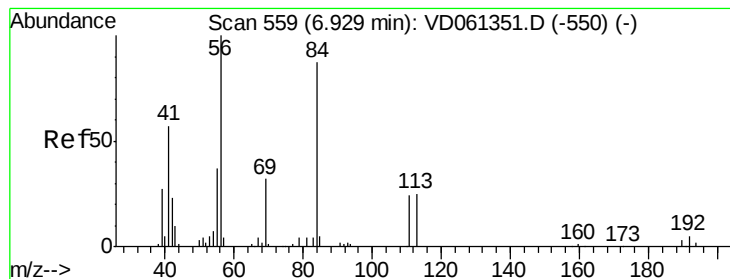
#20
Methylene Chloride
Concen: 14.110 ug/l
RT: 3.80 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD061580.D
Acq: 4 Apr 2019 15:49

Tgt Ion: 84 Resp: 99098
Ion Ratio Lower Upper
84 100
49 116.3 91.8 137.8
51 38.1 29.8 44.8
86 62.7 51.8 77.6



Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC





#31

Cyclohexane

Concen: 1.121 ug/l

RT: 7.01 min Scan# 568

Delta R.T. 0.08 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

Instrument :
MSVOA_D
ClientSampled :

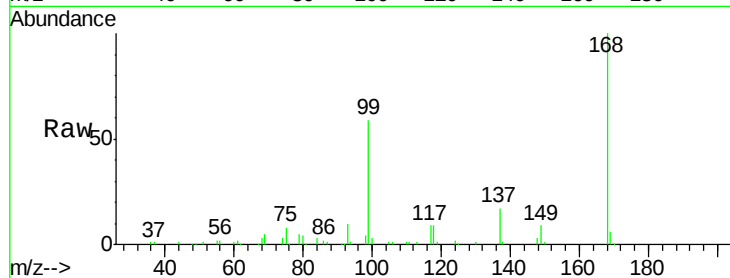
Tot Ion: 56 Resp: 8576

Ion Ratio Lower Upper

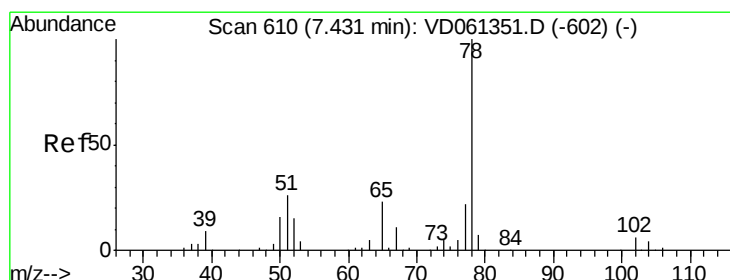
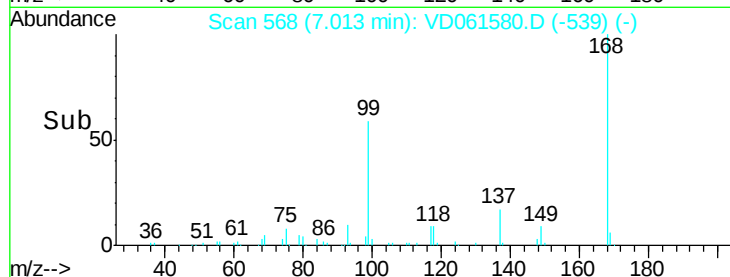
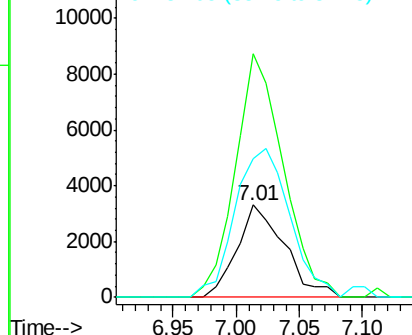
56 100

69 264.3 25.7 38.5#

84 150.0 70.6 105.8#



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: 7.43 min Scan# 610

Delta R.T. -0.00 min

Lab File: VD061580.D

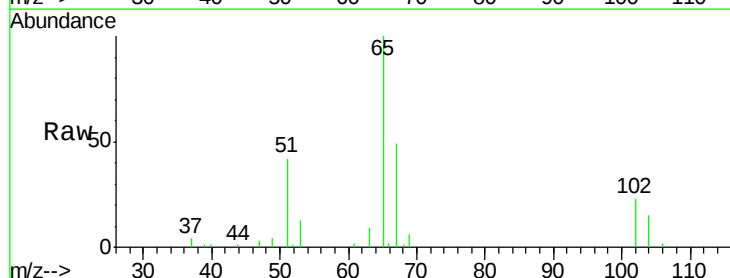
Acq: 4 Apr 2019 15:49

Tgt Ion: 65 Resp: 196622

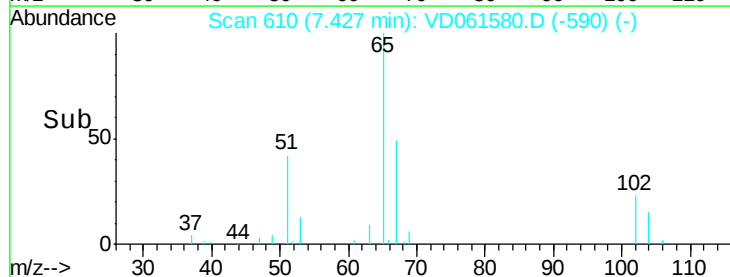
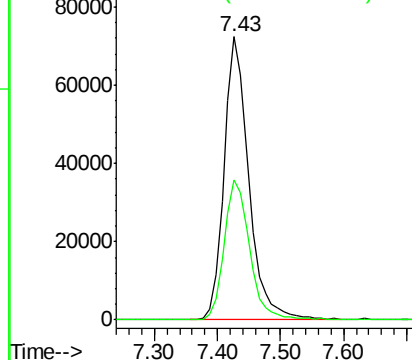
Ion Ratio Lower Upper

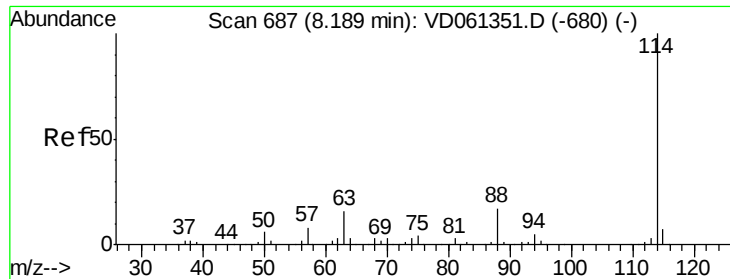
65 100

67 49.3 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

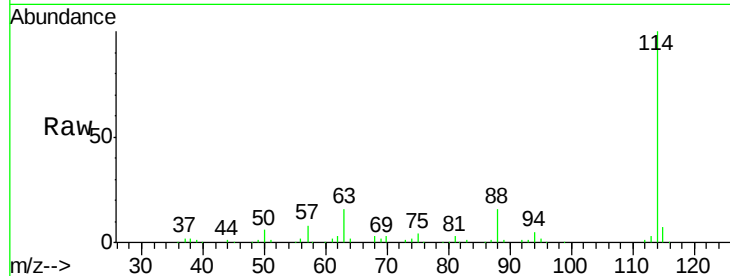




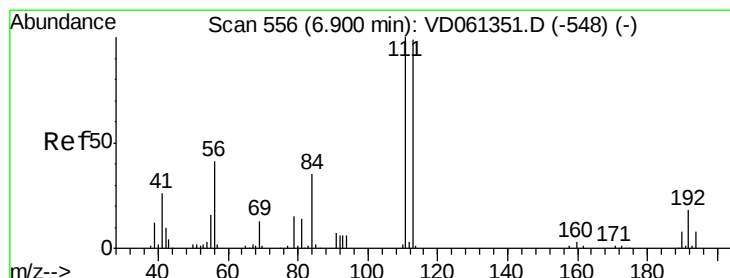
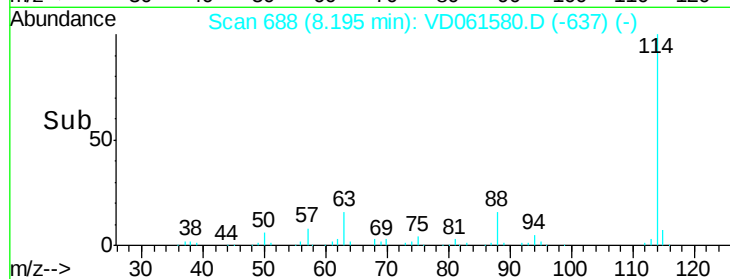
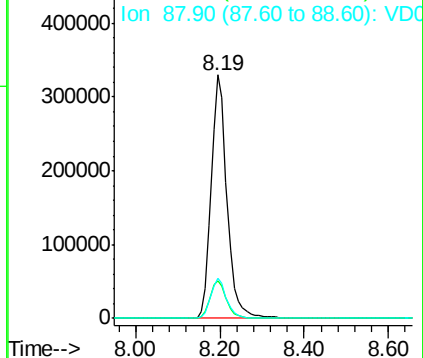
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 688
 Delta R.T. 0.01 min
 Lab File: VD061580.D
 Acq: 4 Apr 2019 15:49

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 863332
 Ion Ratio Lower Upper
 114 100
 63 15.6 0.0 31.6
 88 16.3 0.0 33.4

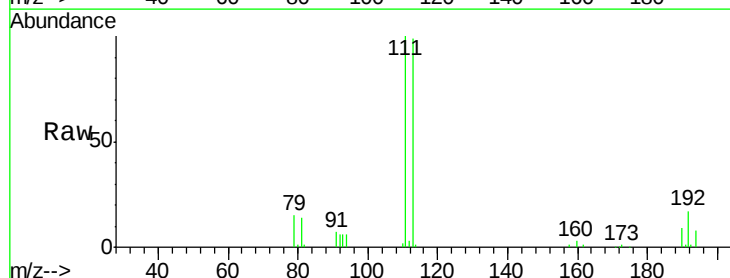


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

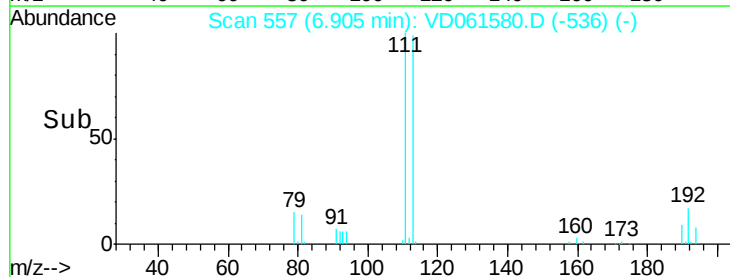
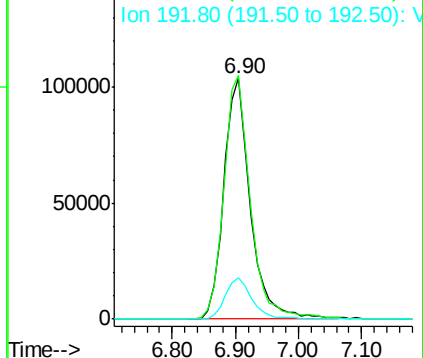


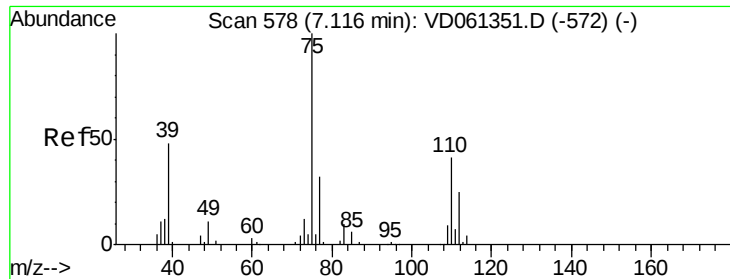
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. 0.01 min
 Lab File: VD061580.D
 Acq: 4 Apr 2019 15:49

Tgt Ion:113 Resp: 302121
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.0 121.6
 192 17.3 14.4 21.6



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





#36

1,1-Dichloropropene

Concen: 4.707 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.10 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

Instrument :

MSVOA_D

ClientSampleId :

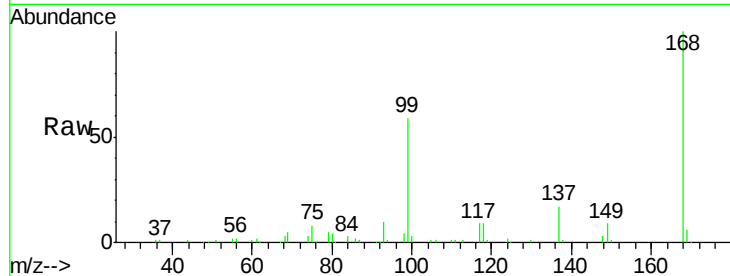
Tot Ion: 75 Resp: 35467

Ion Ratio Lower Upper

75 100

110 6.8 20.4 61.3#

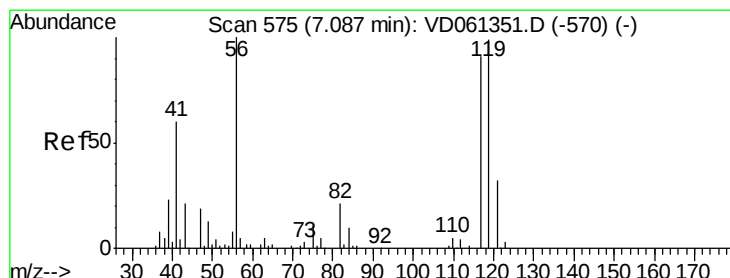
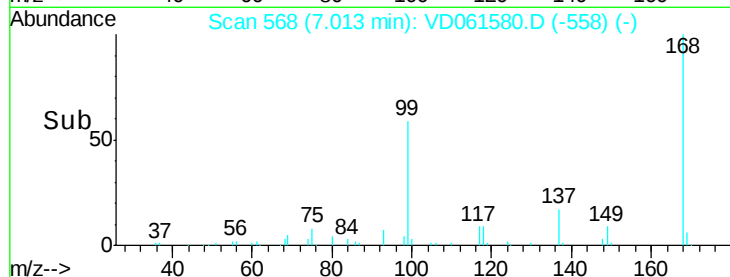
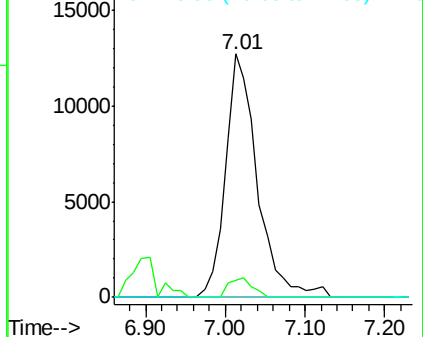
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 5.516 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.06 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

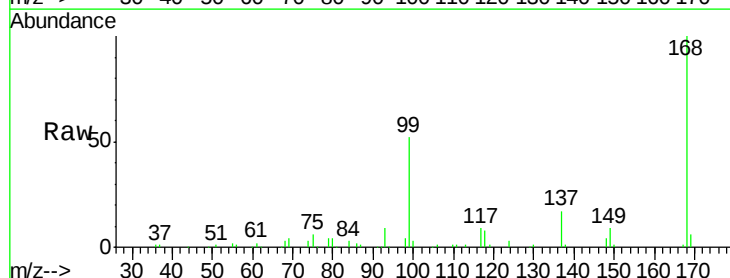
Tgt Ion: 117 Resp: 47761

Ion Ratio Lower Upper

117 100

119 5.9 80.1 120.1#

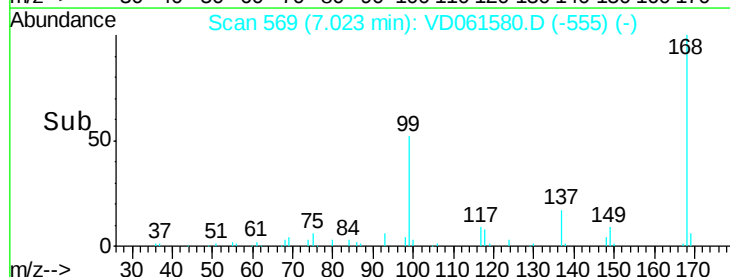
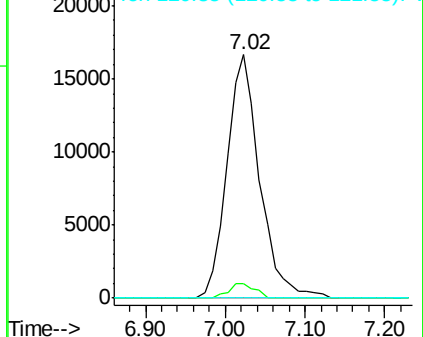
121 0.0 25.6 38.4#

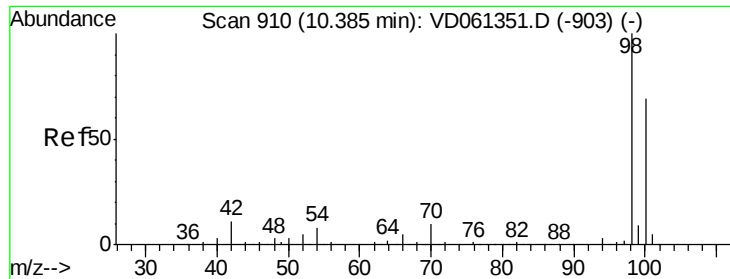


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

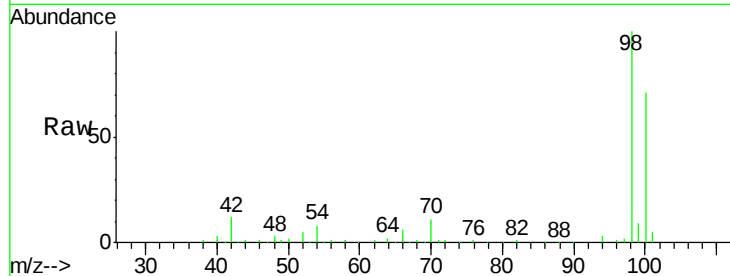




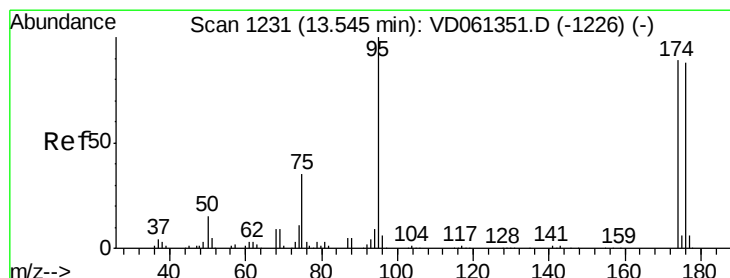
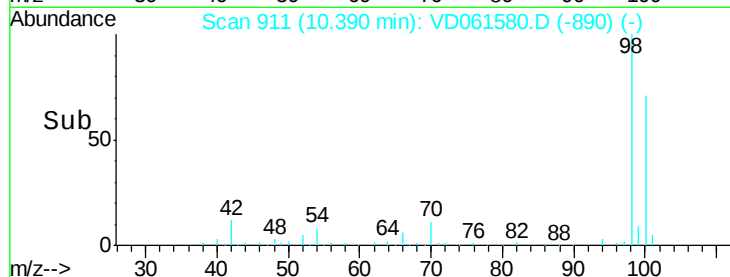
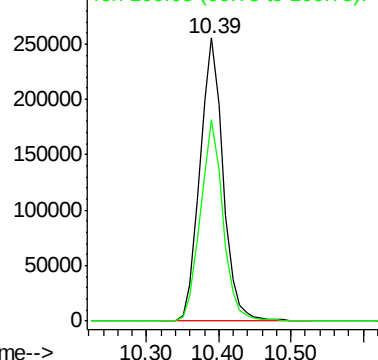
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.39 min Scan# 911
Delta R.T. 0.01 min
Lab File: VD061580.D
Acq: 4 Apr 2019 15:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 571247
Ion Ratio Lower Upper
98 100
100 71.1 56.2 84.2

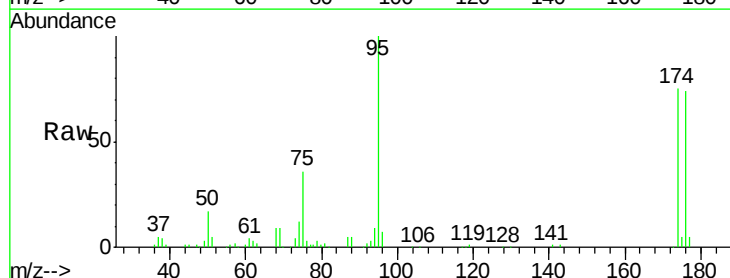


Abundance Ion 98.05 (97.75 to 98.75): VD061351.D (-903) (-)
Ion 100.05 (99.75 to 100.75): VD061351.D (-903) (-)

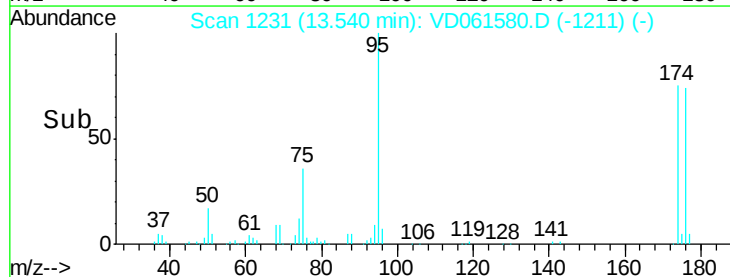
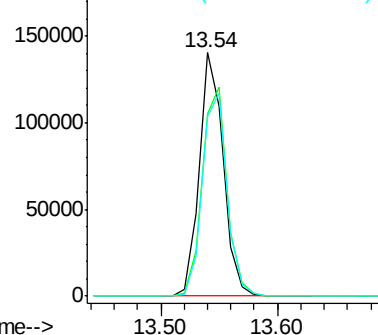


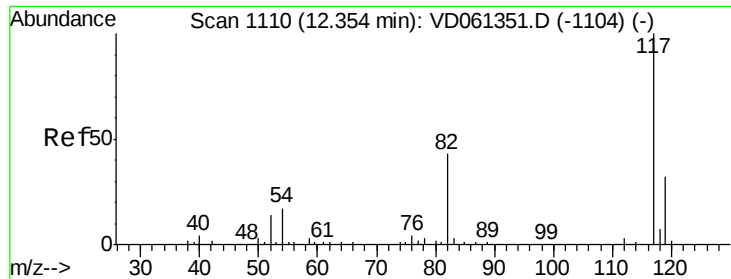
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.54 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD061580.D
Acq: 4 Apr 2019 15:49

Tgt Ion: 95 Resp: 198688
Ion Ratio Lower Upper
95 100
174 74.8 0.0 178.0
176 73.7 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): VD061351.D (-1226) (-)
Ion 173.90 (173.60 to 174.60): VD061351.D (-1226) (-)
Ion 175.90 (175.60 to 176.60): VD061351.D (-1226) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.35 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

Instrument :

MSVOA_D

ClientSampleId :

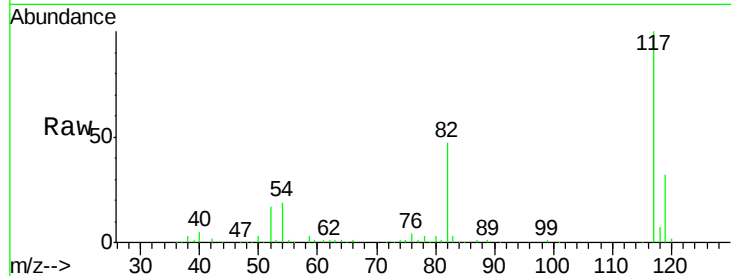
Tot Ion:117 Resp: 671482

Ion Ratio Lower Upper

117 100

82 46.9 34.4 51.6

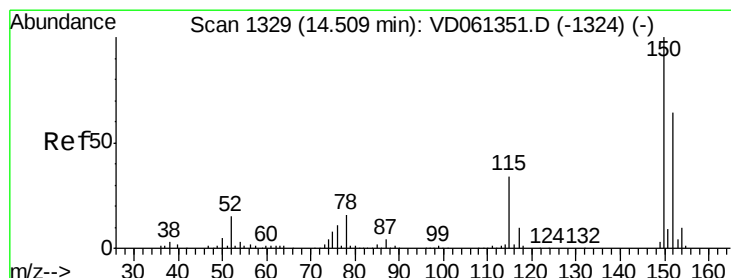
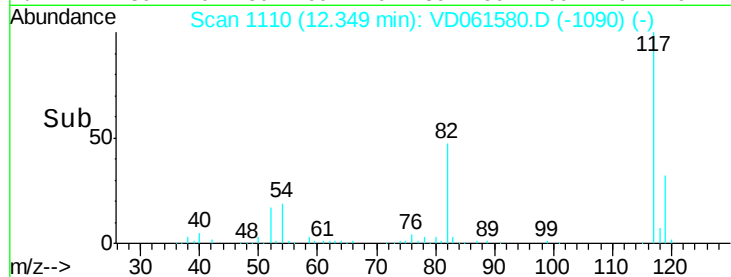
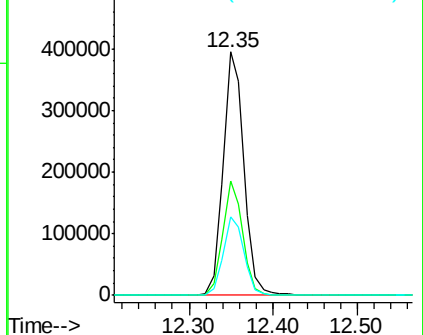
119 32.1 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.50 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

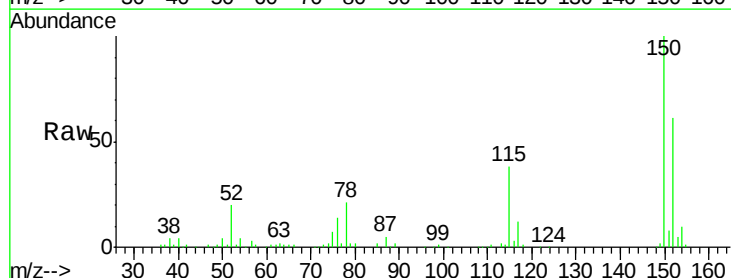
Tgt Ion:152 Resp: 234925

Ion Ratio Lower Upper

152 100

115 62.2 26.9 80.6

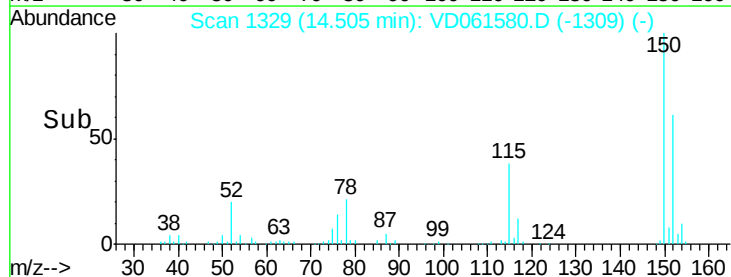
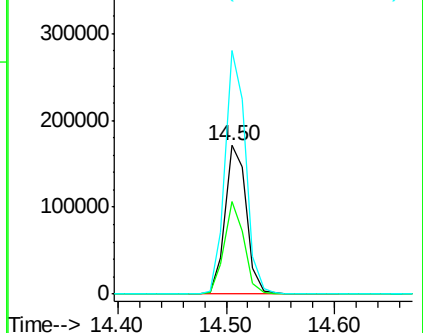
150 163.8 0.0 318.0

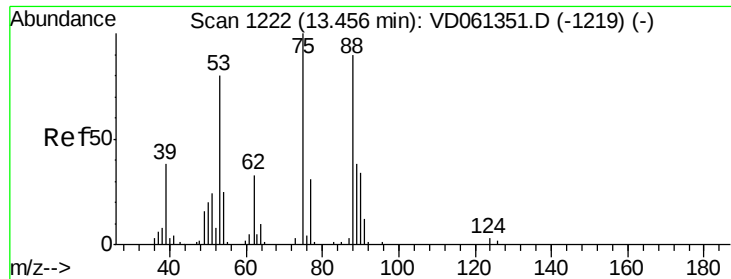


Abundance Ion 151.90 (151.60 to 152.60): V

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: 69.549 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061580.D

Acq: 4 Apr 2019 15:49

Instrument :

MSVOA_D

ClientSampleId :

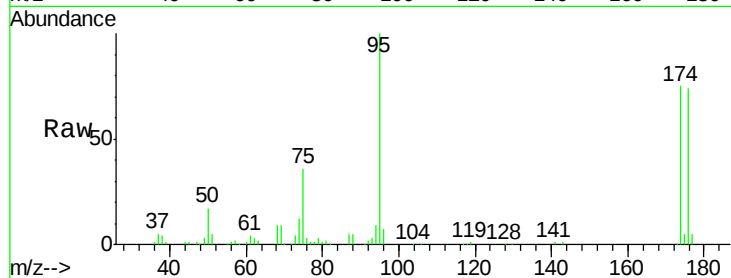
Tot Ion: 75 Resp: 71962

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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

