

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061520.D
 Acq On : 2 Apr 2019 17:57
 Operator : VA/AP
 Sample : K2185-01RE
 Misc : 5.24g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-4-OW(0-10)

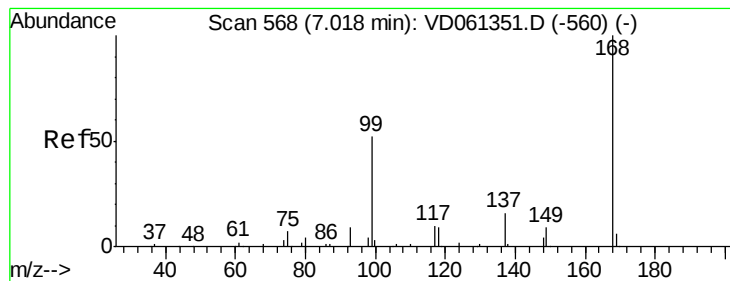
Quant Time: Apr 03 01:54:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	580655	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	946210	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.36	117	724543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	238189	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	254425	51.29	ug/l	0.02
Spiked Amount			Recovery	=	102.58%	
35) Dibromofluoromethane	6.93	113	394174	54.51	ug/l	0.03
Spiked Amount			Recovery	=	109.02%	
50) Toluene-d8	10.40	98	869244	50.12	ug/l	0.02
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	13.55	95	293350	44.11	ug/l	0.00
Spiked Amount			Recovery	=	88.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.89	74	8066	3.710	ug/l	79
10) Methyl Iodide	3.32	142	2102	3.643	ug/l #	38
11) Tert butyl alcohol	4.04	59	862	2.791	ug/l #	76
16) Acetone	3.23	43	68358	53.610	ug/l	100
20) Methylene Chloride	3.82	84	93999	11.688	ug/l	97
31) Cyclohexane	7.05	56	10758	1.259	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	43375	5.252	ug/l #	45
38) Carbon Tetrachloride	7.05	117	54403	5.733	ug/l #	14
51) 4-Methyl-2-Pentanone	10.40	43	3441	1.101	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	107823	102.779	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.03 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

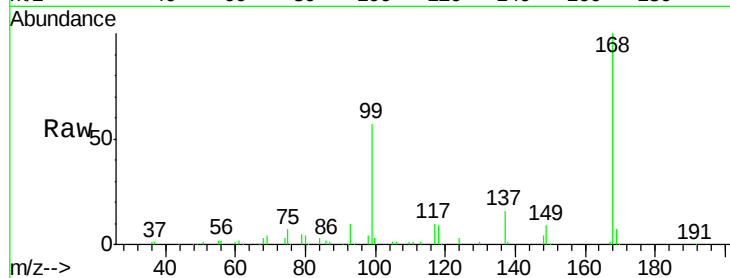
P-4-OW(0-10)

Tot Ion:168 Resp: 580655

Ion Ratio Lower Upper

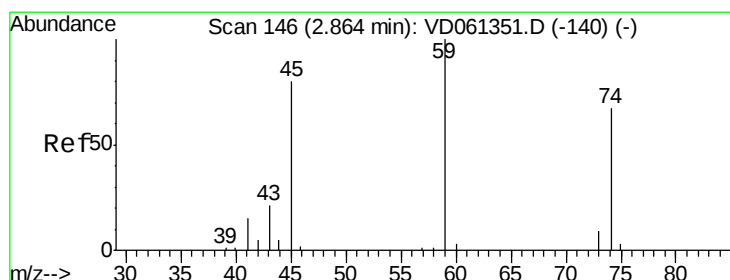
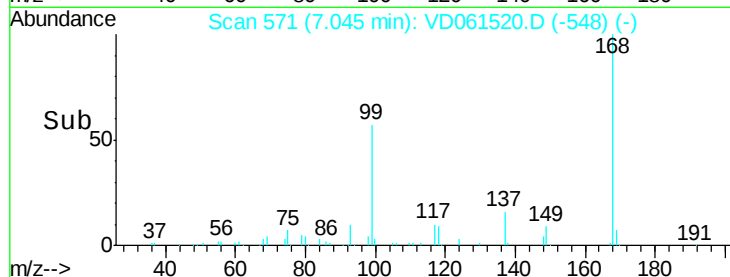
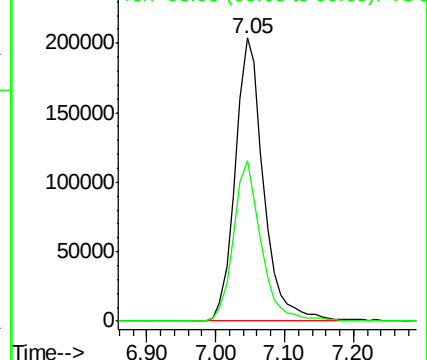
168 100

99 56.9 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 3.710 ug/l

RT: 2.89 min Scan# 149

Delta R.T. 0.03 min

Lab File: VD061520.D

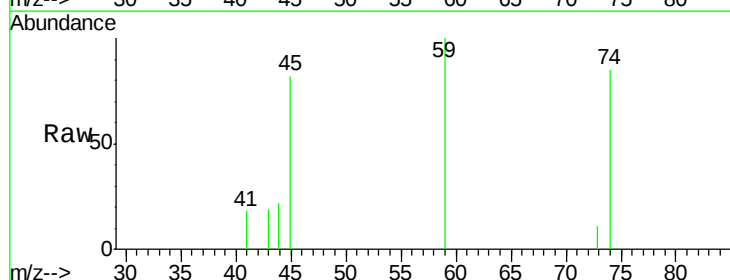
Acq: 2 Apr 2019 17:57

Tgt Ion: 74 Resp: 8066

Ion Ratio Lower Upper

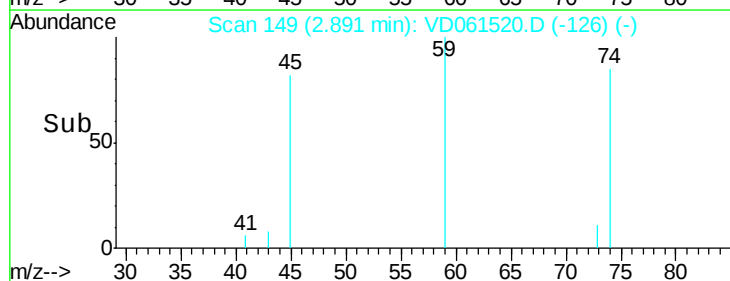
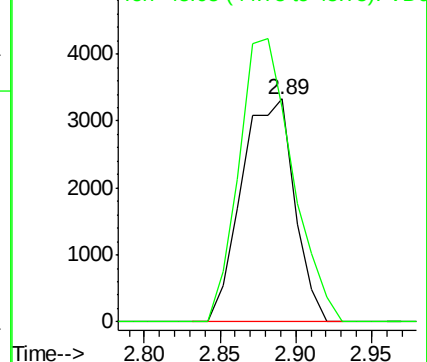
74 100

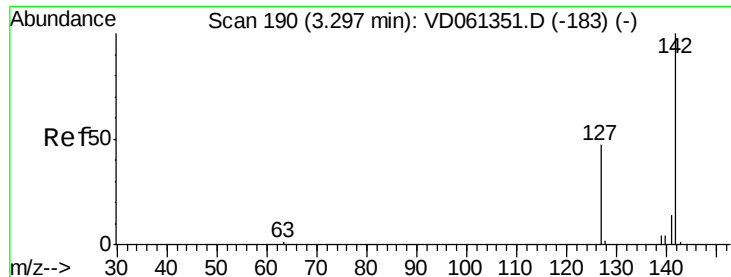
45 96.2 59.7 179.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#10

Methyl Iodide

Concen: 3.643 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.03 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

P-4-OW(0-10)

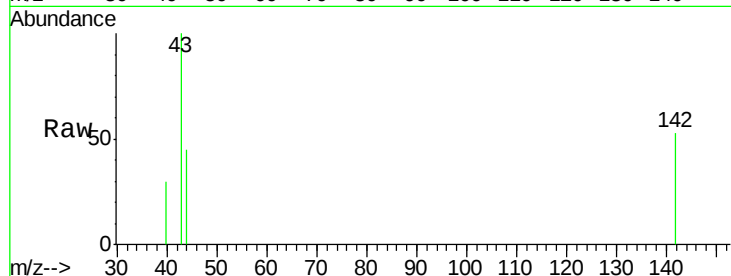
Tot Ion:142 Resp: 2102

Ion Ratio Lower Upper

142 100

127 0.0 37.7 56.5#

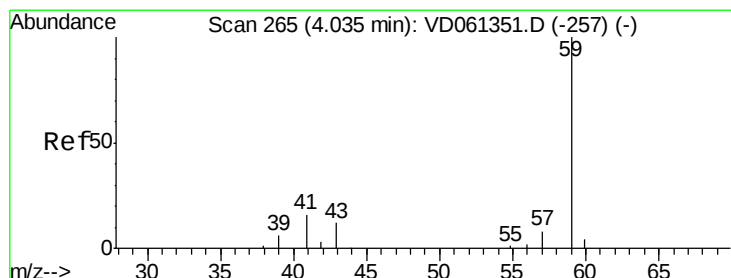
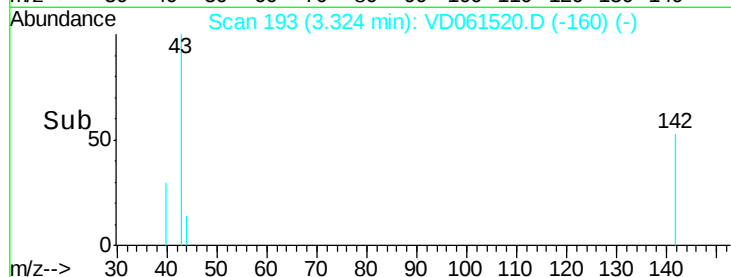
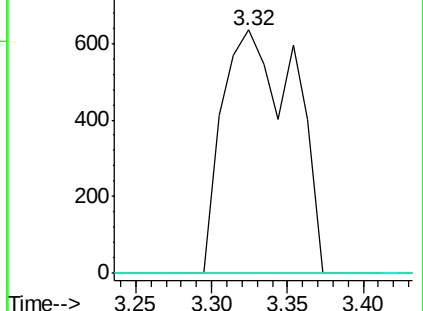
141 0.0 11.5 17.3#



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



#11

Tert butyl alcohol

Concen: 2.791 ug/l

RT: 4.04 min Scan# 266

Delta R.T. 0.01 min

Lab File: VD061520.D

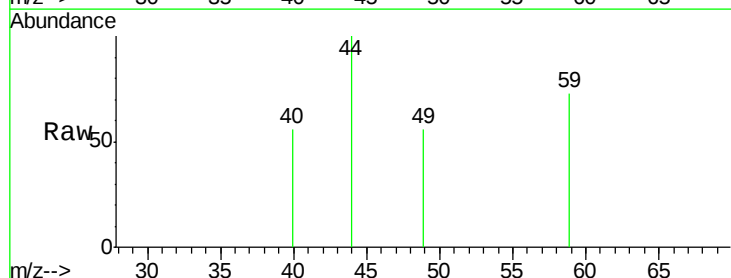
Acq: 2 Apr 2019 17:57

Tgt Ion: 59 Resp: 862

Ion Ratio Lower Upper

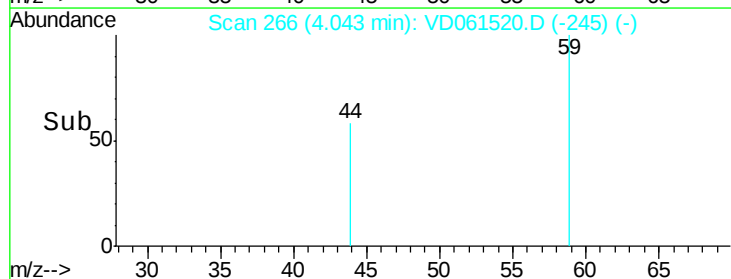
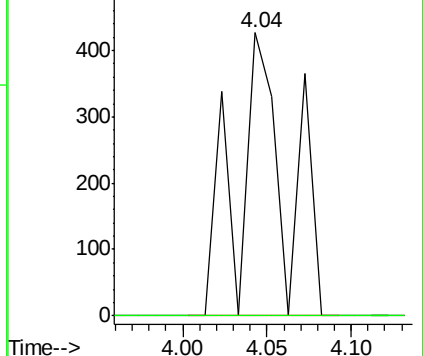
59 100

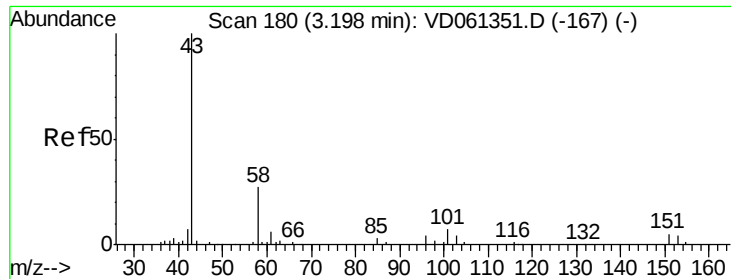
57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V





#16

Acetone

Concen: 53.610 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

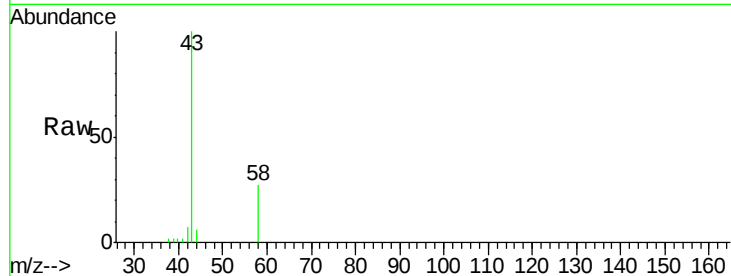
P-4-OW(0-10)

Tot Ion: 43 Resp: 68358

Ion Ratio Lower Upper

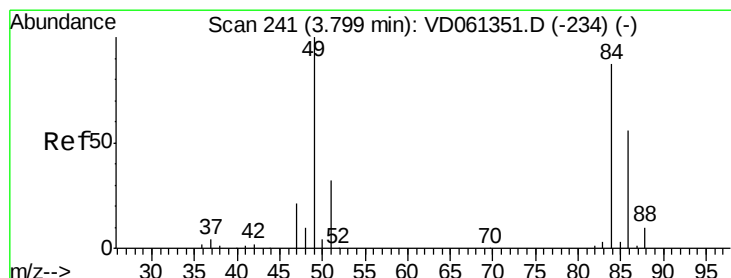
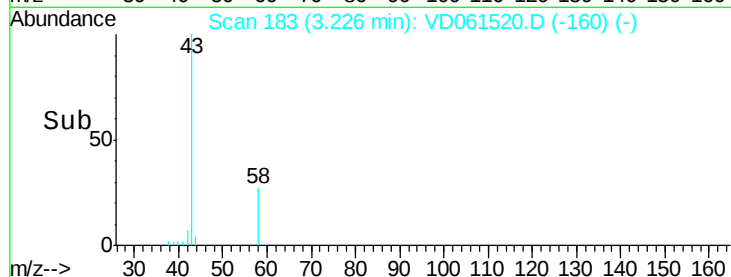
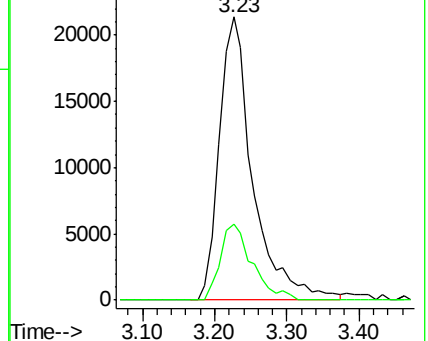
43 100

58 26.7 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 11.688 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Tgt Ion: 84 Resp: 93999

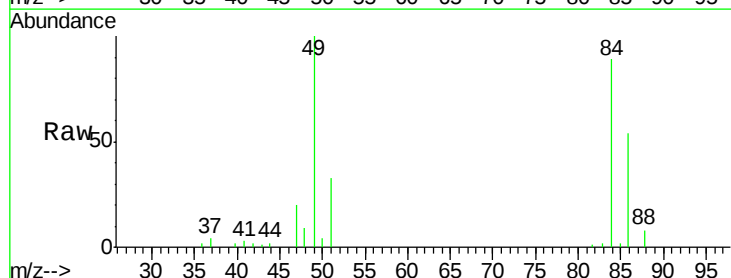
Ion Ratio Lower Upper

84 100

49 112.2 91.8 137.8

51 37.1 29.8 44.8

86 60.3 51.8 77.6

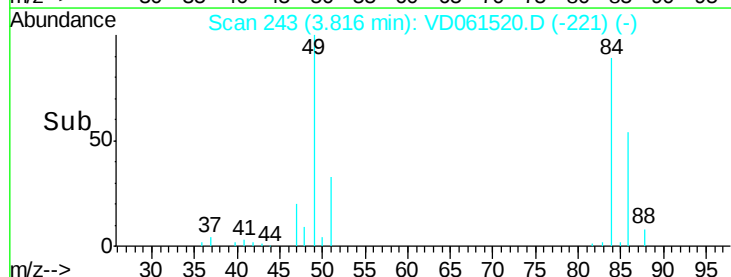
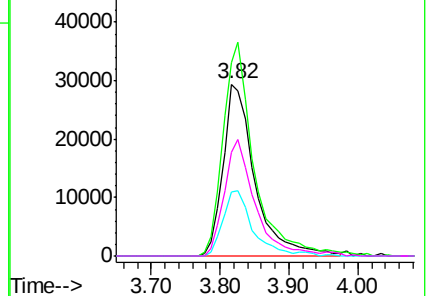


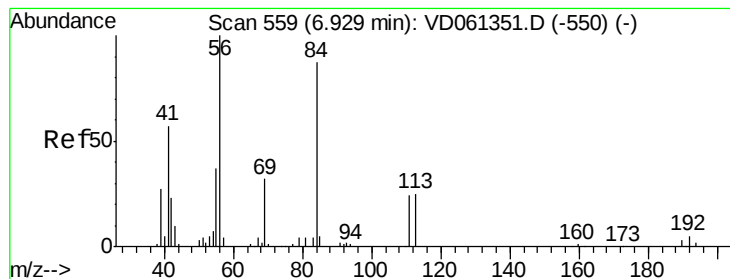
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.259 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.12 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

P-4-OW(0-10)

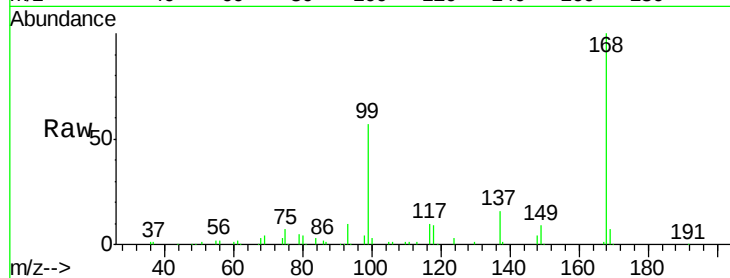
Tot Ion: 56 Resp: 10758

Ion Ratio Lower Upper

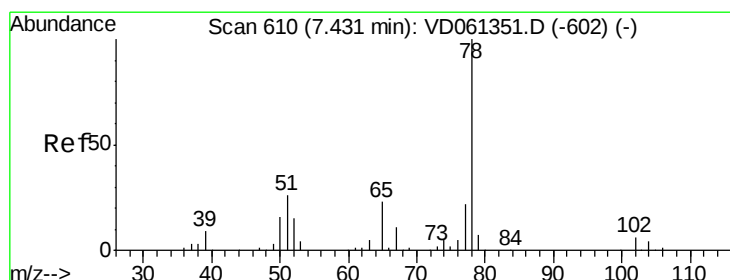
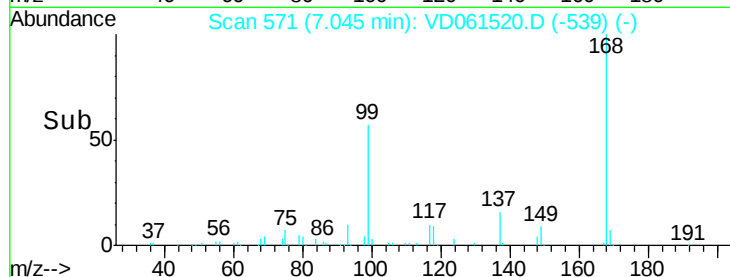
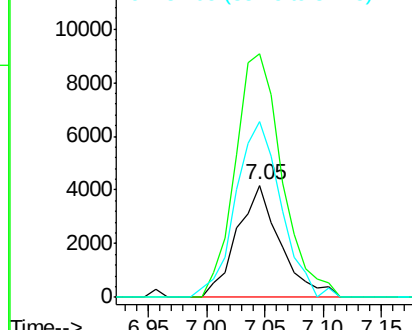
56 100

69 216.9 25.7 38.5#

84 157.1 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: 7.45 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD061520.D

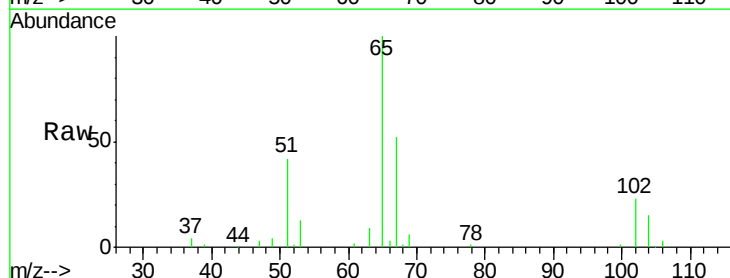
Acq: 2 Apr 2019 17:57

Tgt Ion: 65 Resp: 254425

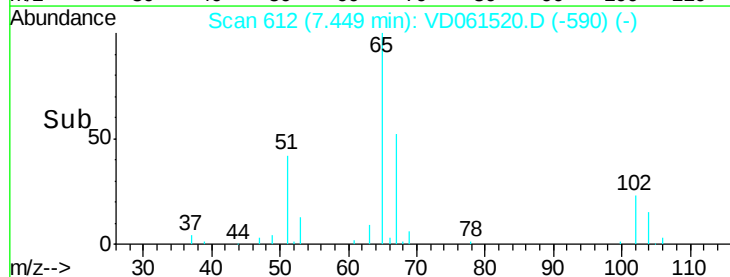
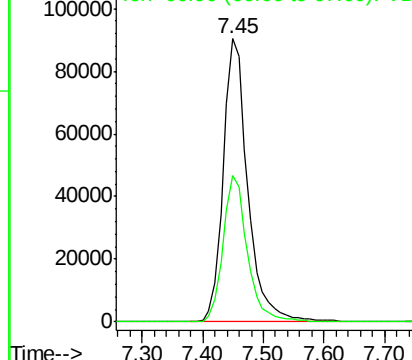
Ion Ratio Lower Upper

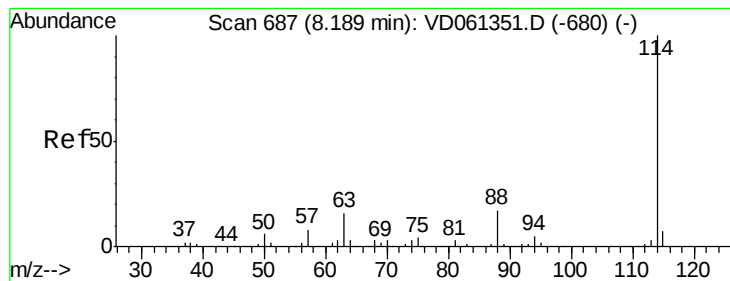
65 100

67 51.6 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: 8.22 min Scan# 690

Delta R.T. 0.03 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

P-4-OW(0-10)

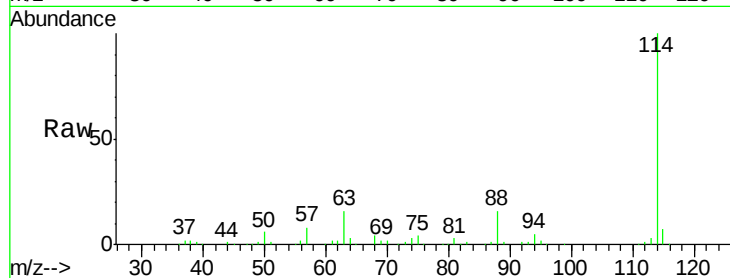
Tot Ion:114 Resp: 946210

Ion Ratio Lower Upper

114 100

63 16.3 0.0 31.6

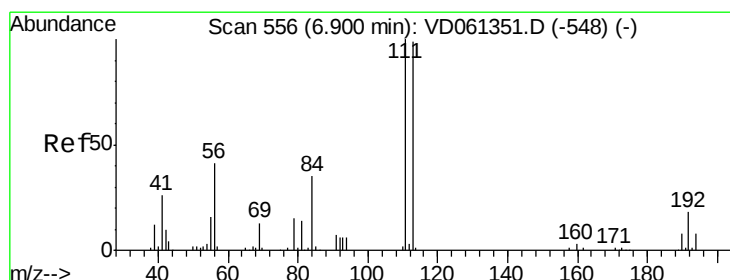
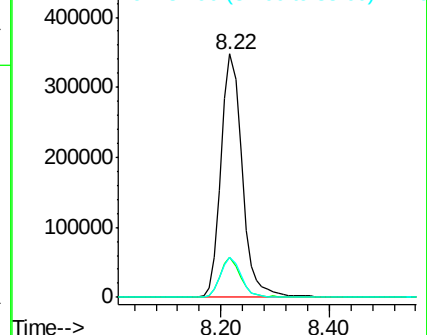
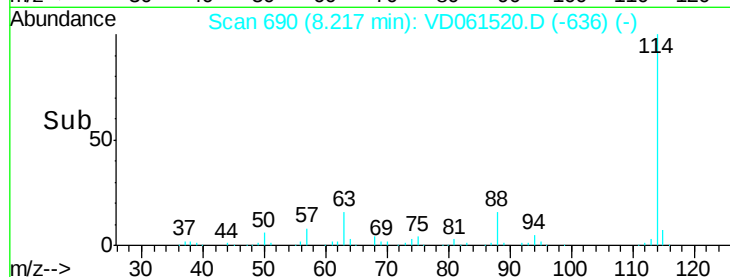
88 16.3 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

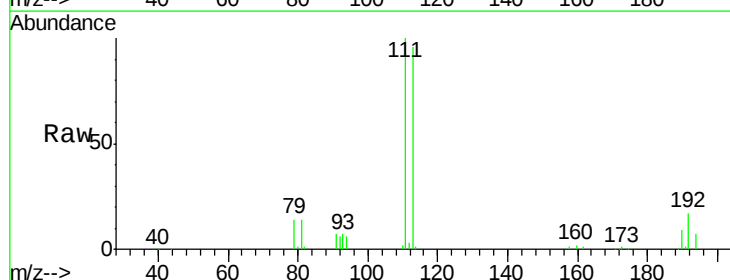
Tgt Ion:113 Resp: 394174

Ion Ratio Lower Upper

113 100

111 104.1 81.0 121.6

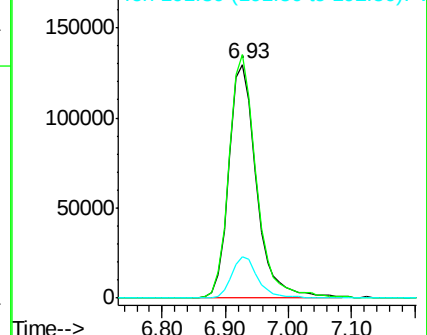
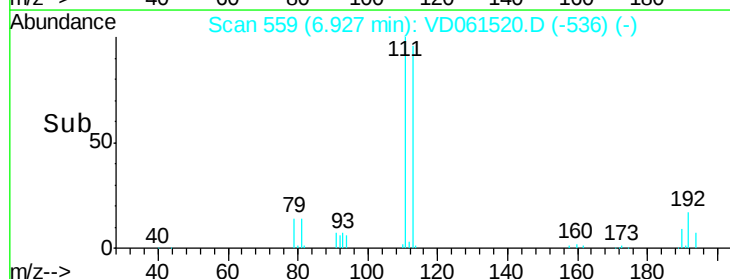
192 17.6 14.4 21.6

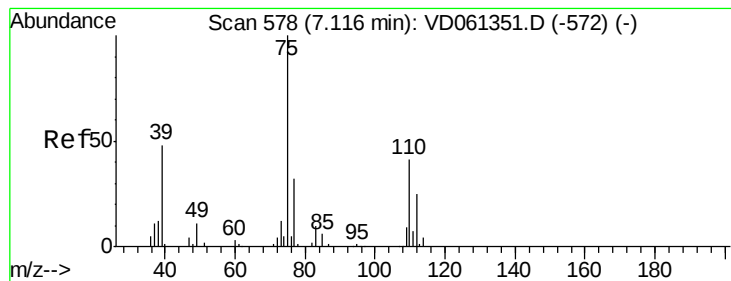


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.252 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

P-4-OW(0-10)

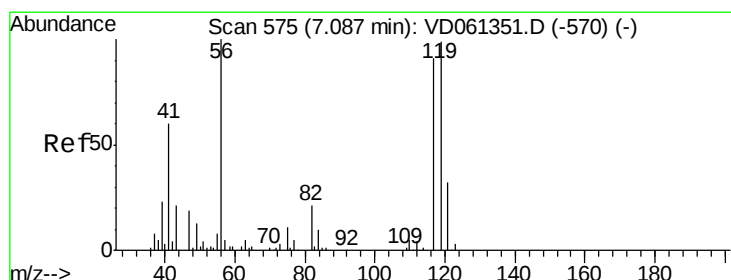
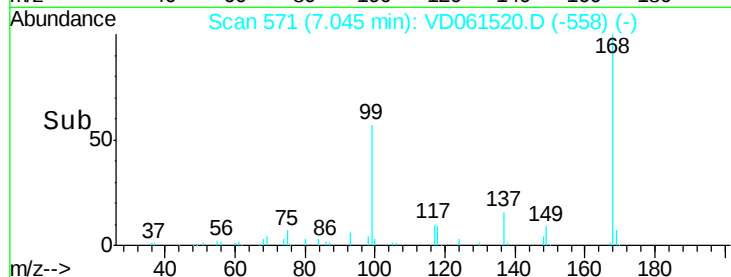
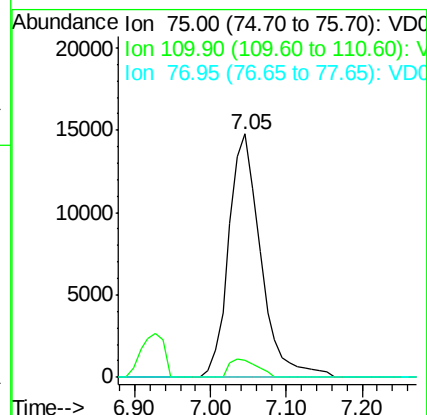
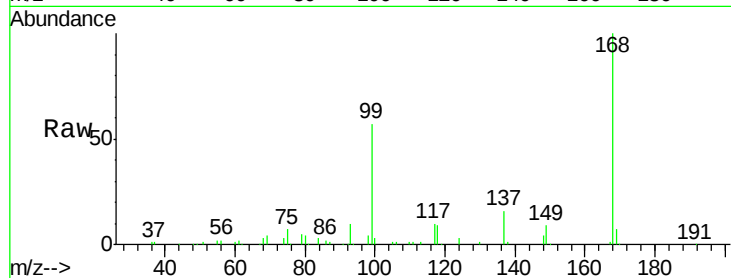
Tot Ion: 75 Resp: 43375

Ion Ratio Lower Upper

75 100

110 7.3 20.4 61.3#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.733 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

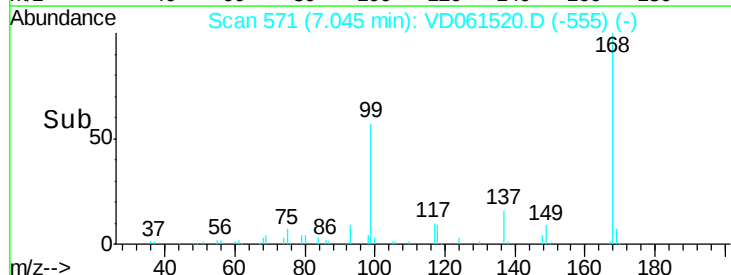
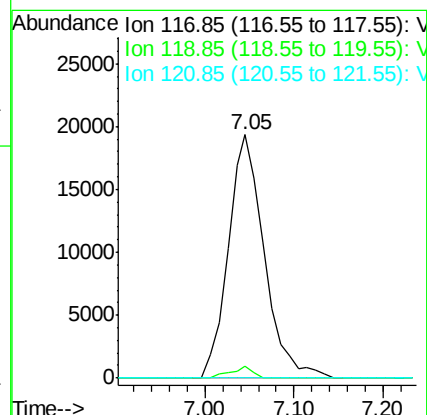
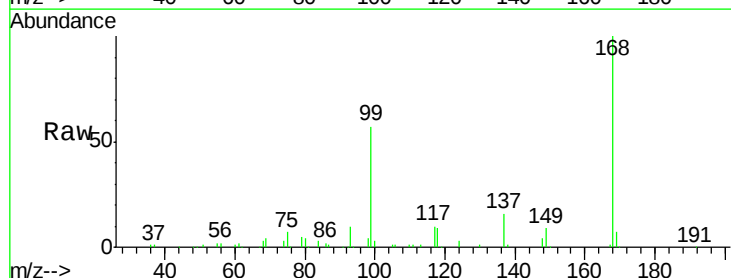
Tgt Ion: 117 Resp: 54403

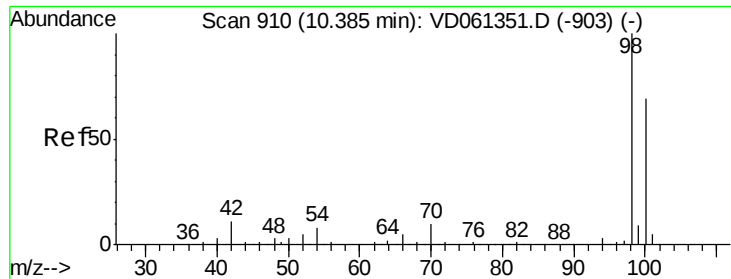
Ion Ratio Lower Upper

117 100

119 4.8 80.1 120.1#

121 0.0 25.6 38.4#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.02 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

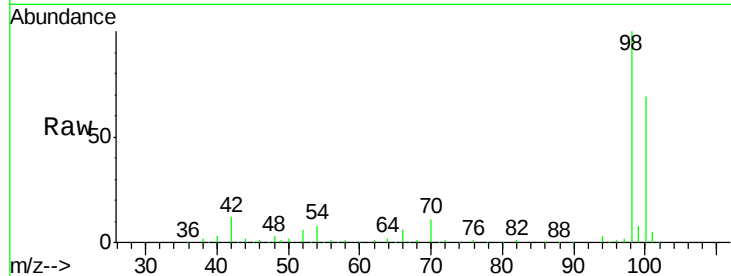
P-4-OW(0-10)

Tot Ion: 98 Resp: 869244

Ion Ratio Lower Upper

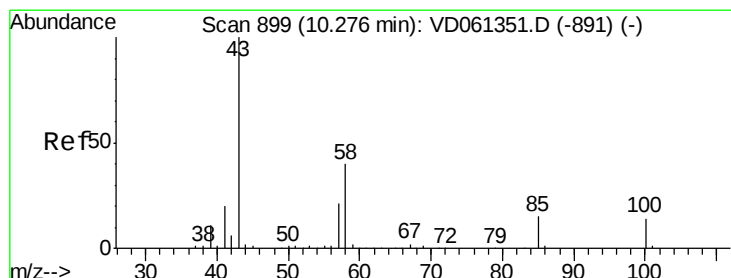
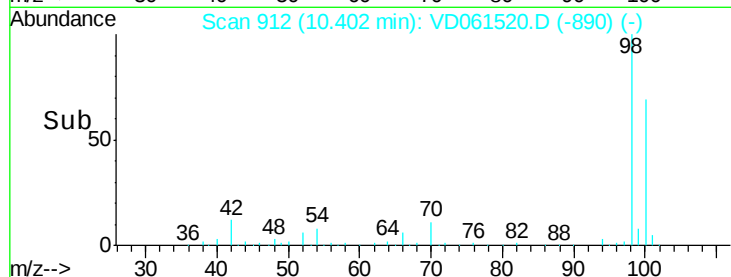
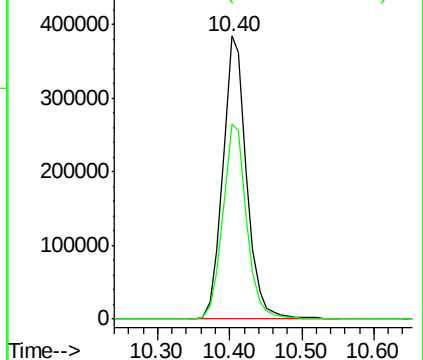
98 100

100 69.1 56.2 84.2



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: 1.101 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.13 min

Lab File: VD061520.D

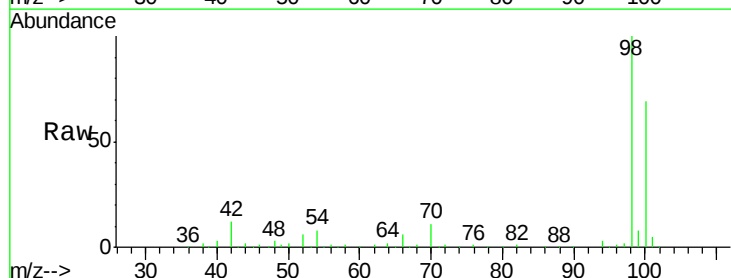
Acq: 2 Apr 2019 17:57

Tgt Ion: 43 Resp: 3441

Ion Ratio Lower Upper

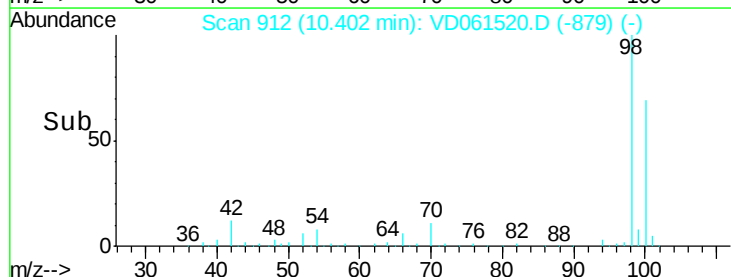
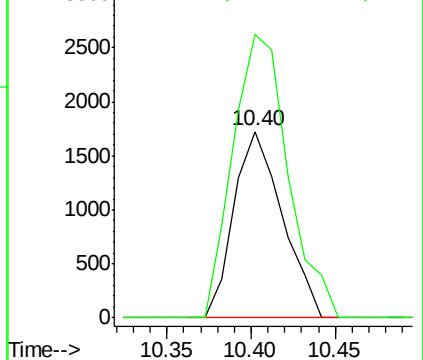
43 100

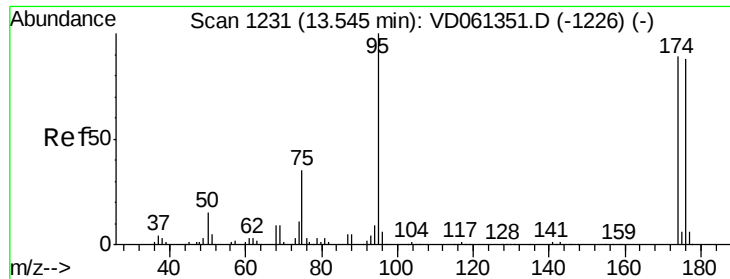
58 151.7 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

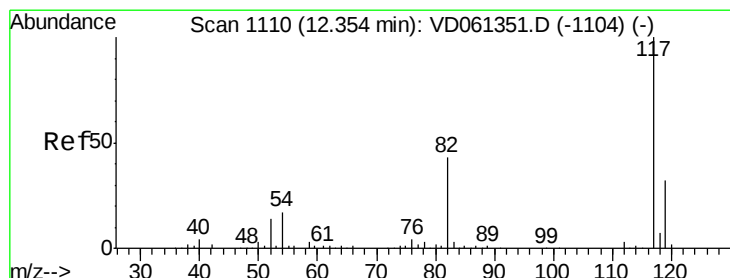
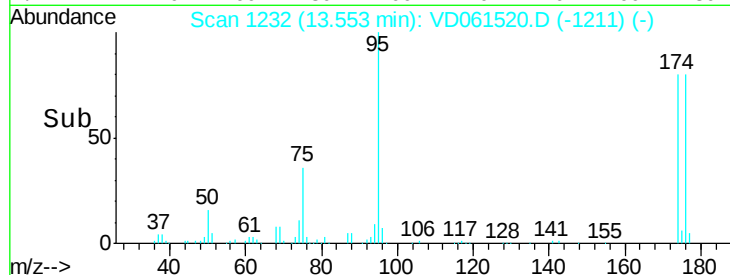
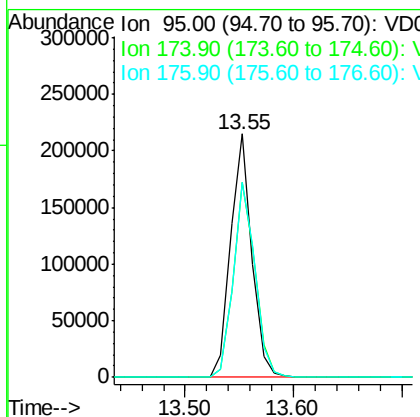
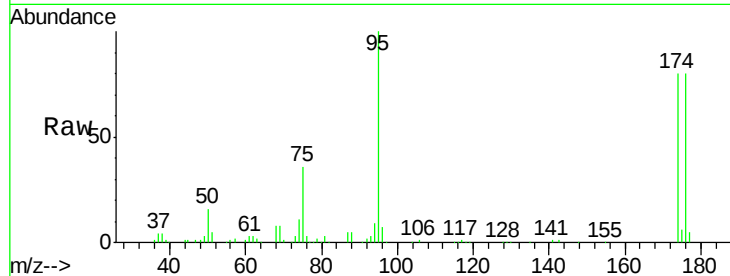




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061520.D
Acq: 2 Apr 2019 17:57

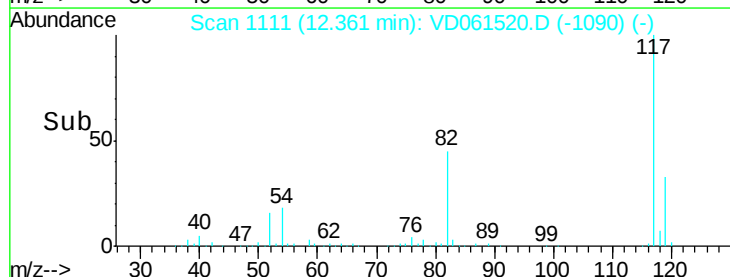
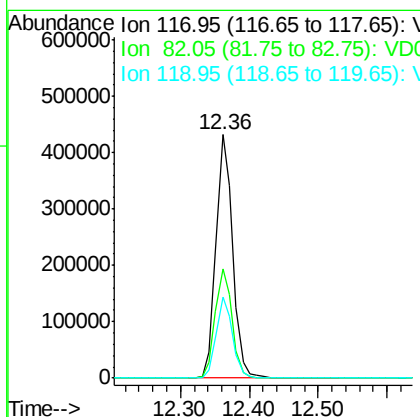
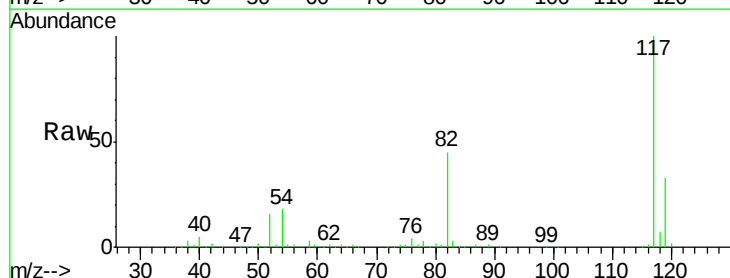
Instrument :
MSVOA_D
ClientSampleId :
P-4-OW(0-10)

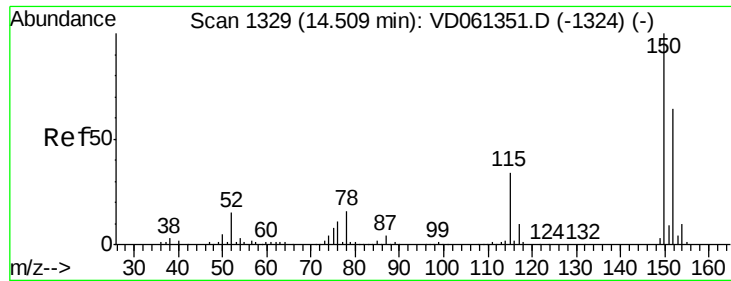
Tot Ion: 95 Resp: 293350
Ion Ratio Lower Upper
95 100
174 80.1 0.0 178.0
176 80.2 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061520.D
Acq: 2 Apr 2019 17:57

Tgt Ion: 117 Resp: 724543
Ion Ratio Lower Upper
117 100
82 44.9 34.4 51.6
119 33.4 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

Instrument :

MSVOA_D

ClientSampleId :

P-4-OW(0-10)

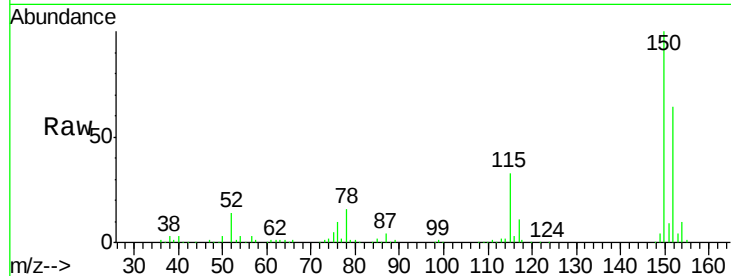
Tot Ion:152 Resp: 238189

Ion Ratio Lower Upper

152 100

115 52.6 26.9 80.6

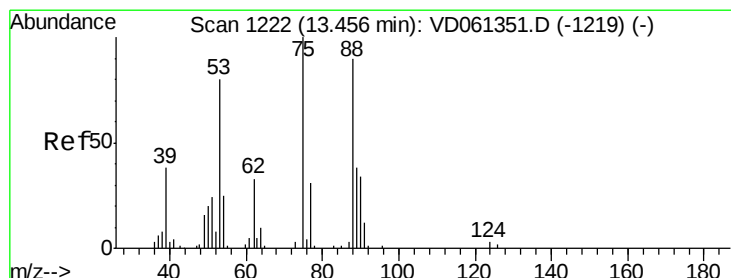
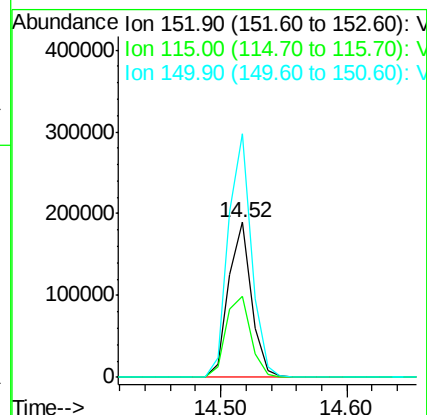
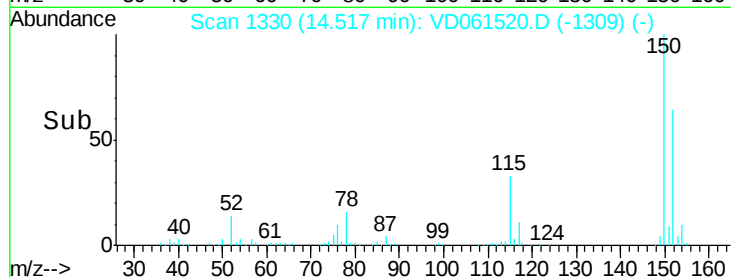
150 157.1 0.0 318.0



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: 102.779 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.10 min

Lab File: VD061520.D

Acq: 2 Apr 2019 17:57

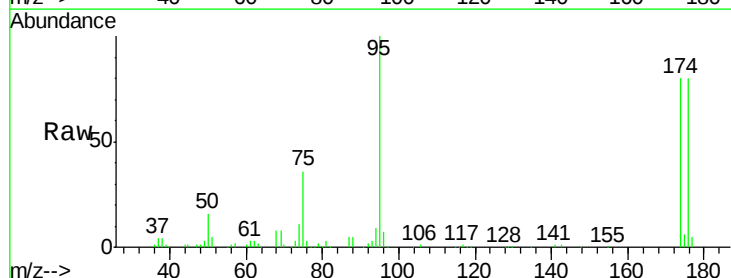
Tgt Ion: 75 Resp: 107823

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): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

