

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040819\
 Data File : VD061667.D
 Acq On : 8 Apr 2019 23:14
 Operator : VA/AP
 Sample : K2245-10RE
 Misc : 5.19g/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 09 01:24:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	387831	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	613949	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	542061	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	263335	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	168077	57.17	ug/l	0.01
Spiked Amount			Recovery	=	114.34%	
35) Dibromofluoromethane	6.94	113	249689	58.71	ug/l	0.02
Spiked Amount			Recovery	=	117.42%	
50) Toluene-d8	10.42	98	486714	45.55	ug/l	0.01
Spiked Amount			Recovery	=	91.10%	
62) 4-Bromofluorobenzene	13.56	95	226675	64.02	ug/l	0.00
Spiked Amount			Recovery	=	128.04%	

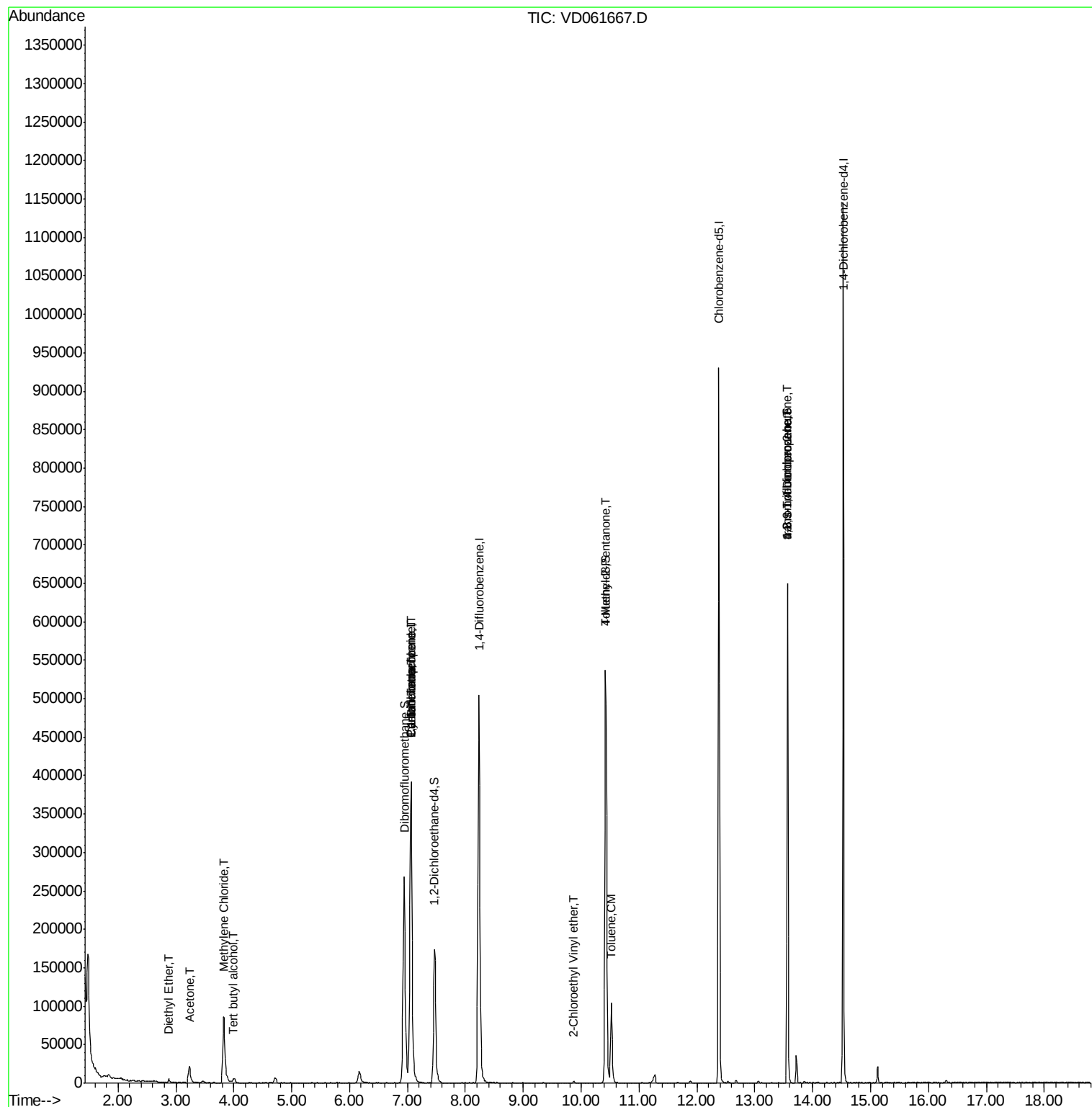
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.88	74	1655	1.236	ug/l	80
11) Tert butyl alcohol	3.99	59	5309	26.947	ug/l #	72
16) Acetone	3.22	43	46210	52.584	ug/l	95
20) Methylene Chloride	3.83	84	64930	13.021	ug/l	96
31) Cyclohexane	7.05	56	5610	1.014	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	27614	5.139	ug/l #	46
38) Carbon Tetrachloride	7.06	117	37511	5.957	ug/l #	14
51) 4-Methyl-2-Pentanone	10.42	43	1913	1.018	ug/l #	1
52) Toluene	10.52	92	56039	6.923	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.87	63	1395	1.027	ug/l #	46
76) 1,2,3-Trichloropropane	13.56	75	70465	19.668	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.56	75	83553	76.853	ug/l #	20

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

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Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.02 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

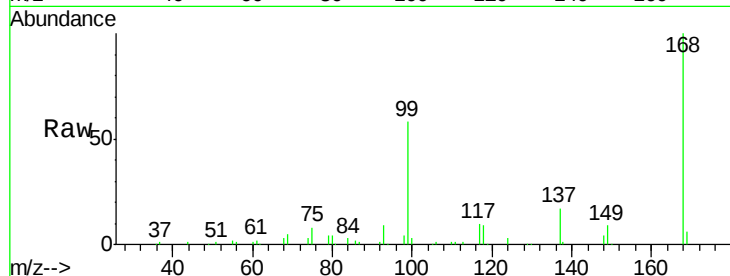
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 387831

Ion Ratio Lower Upper

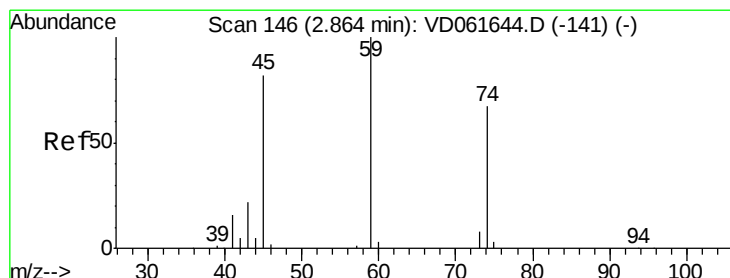
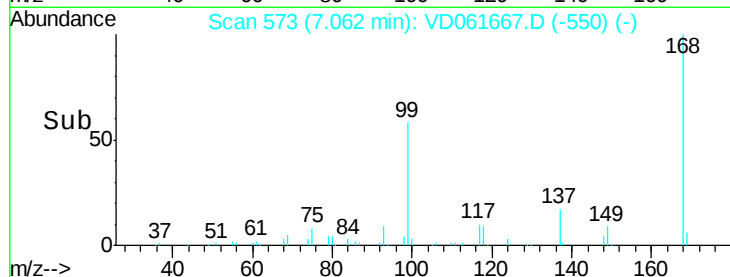
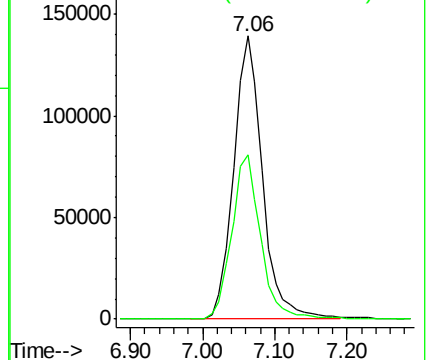
168 100

99 58.0 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.236 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.01 min

Lab File: VD061667.D

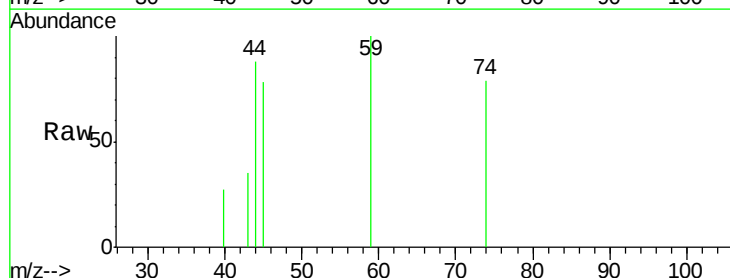
Acq: 8 Apr 2019 23:14

Tgt Ion: 74 Resp: 1655

Ion Ratio Lower Upper

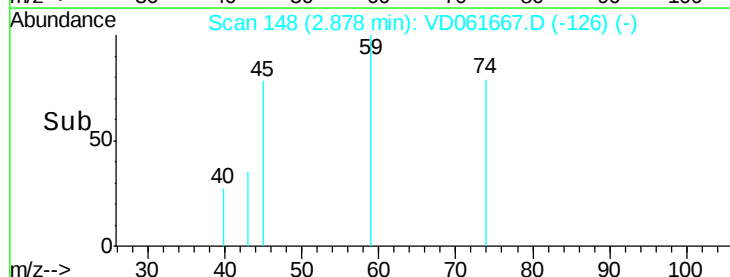
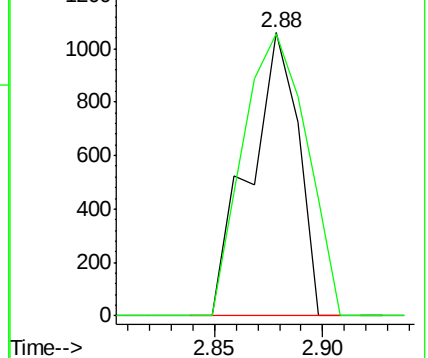
74 100

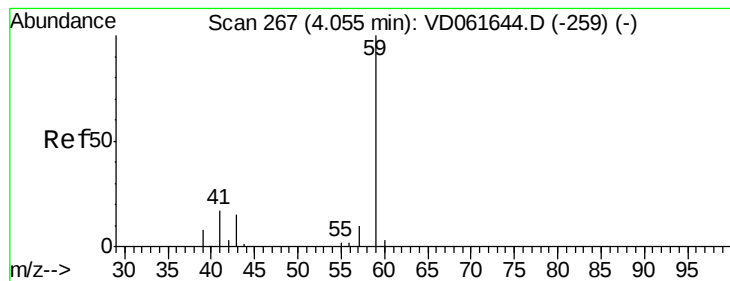
45 99.6 61.0 183.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



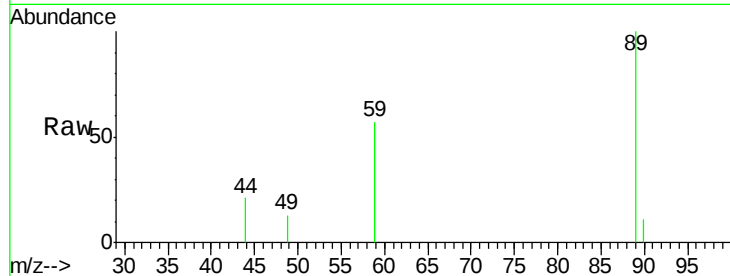


#11

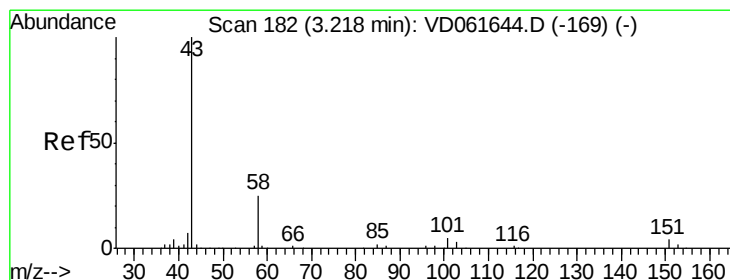
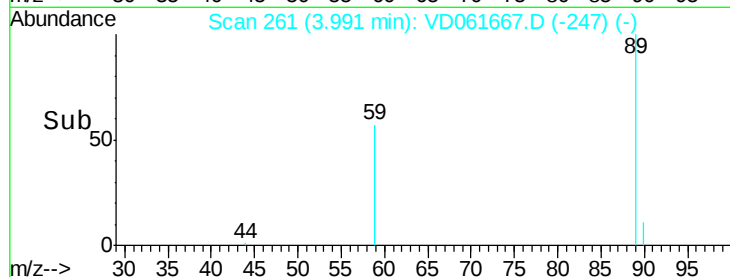
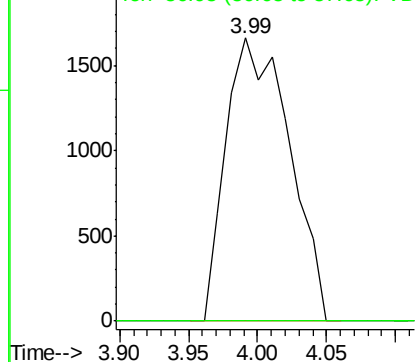
Tert butyl alcohol
 Concen: 26.947 ug/l
 RT: 3.99 min Scan# 261
 Delta R.T. -0.06 min
 Lab File: VD061667.D
 Acq: 8 Apr 2019 23:14

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion: 59 Resp: 5309
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#



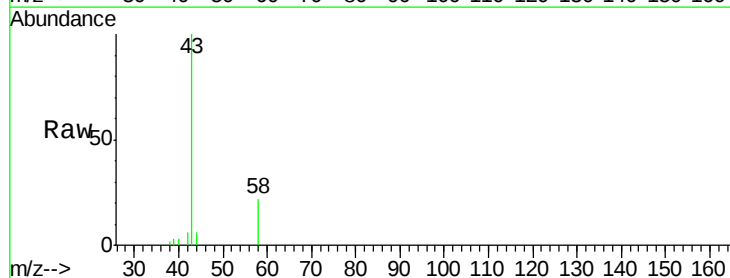
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



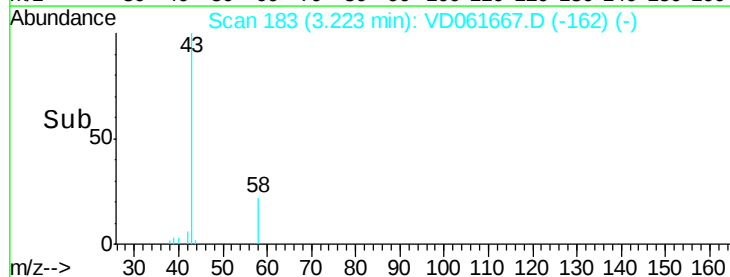
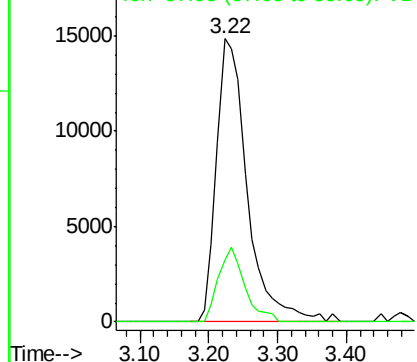
#16

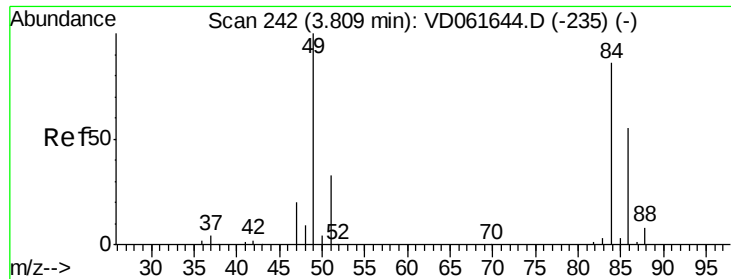
Acetone
 Concen: 52.584 ug/l
 RT: 3.22 min Scan# 183
 Delta R.T. 0.00 min
 Lab File: VD061667.D
 Acq: 8 Apr 2019 23:14

Tgt Ion: 43 Resp: 46210
 Ion Ratio Lower Upper
 43 100
 58 21.9 19.7 29.5



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

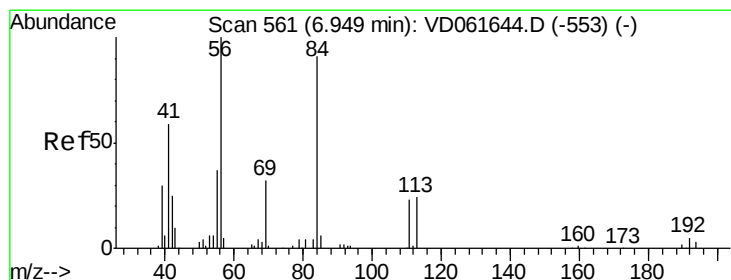
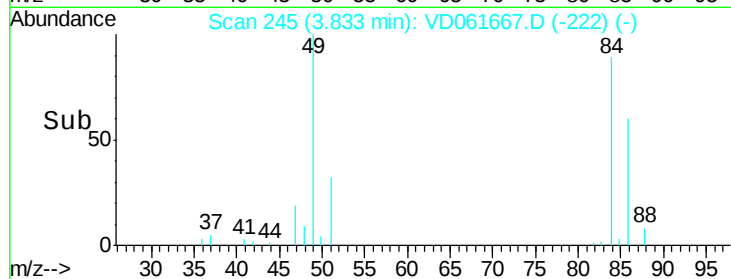
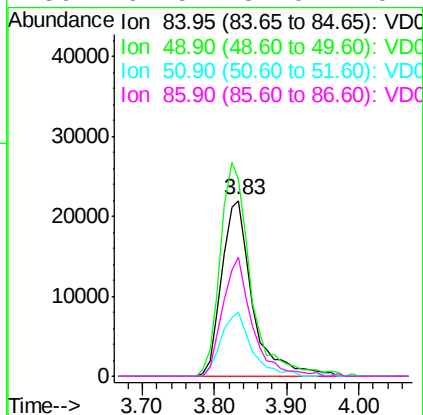
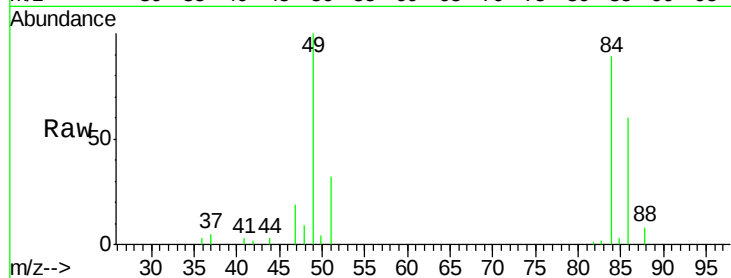




#20
Methvlene Chloride
Concen: 13.021 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.03 min
Lab File: VD061667.D
Acq: 8 Apr 2019 23:14

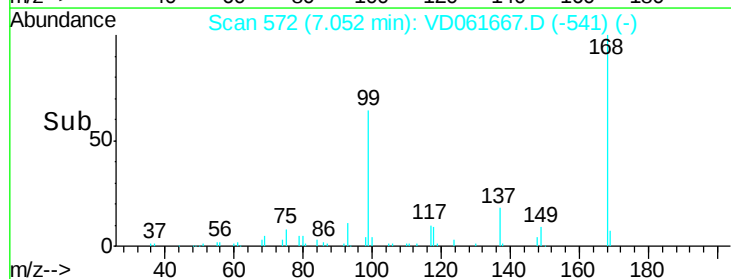
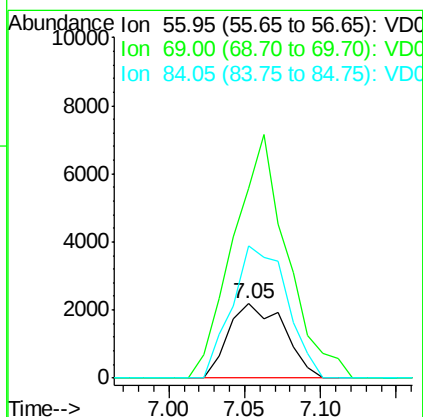
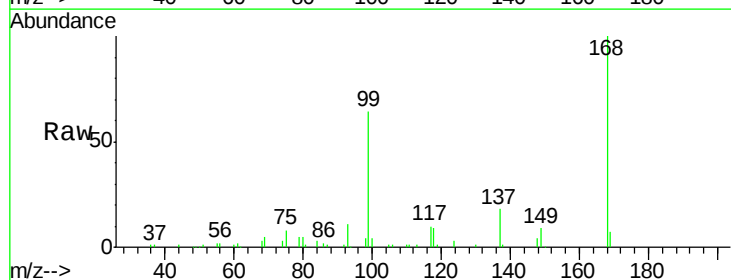
Instrument :
MSVOA_D
ClientSampleId :

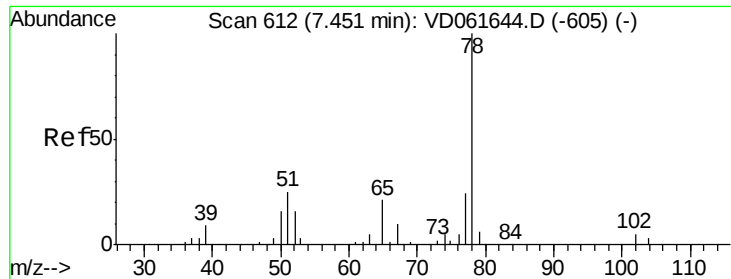
Tot Ion: 84 Resp: 64930
Ion Ratio Lower Upper
84 100
49 112.6 93.0 139.4
51 36.5 30.4 45.6
86 67.5 51.0 76.4



#31
Cyclohexane
Concen: 1.014 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.10 min
Lab File: VD061667.D
Acq: 8 Apr 2019 23:14

Tgt Ion: 56 Resp: 5610
Ion Ratio Lower Upper
56 100
69 255.5 25.8 38.6#
84 177.2 74.2 111.2#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

Instrument :

MSVOA_D

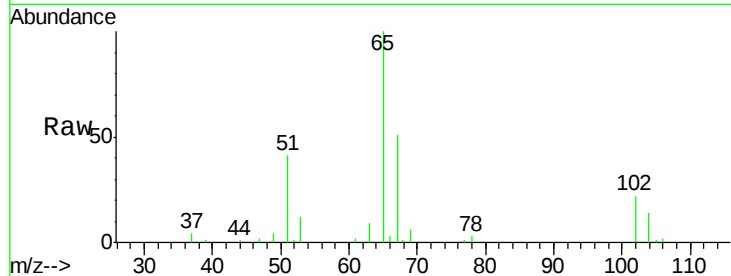
ClientSampleId :

Tot Ion: 65 Resp: 168077

Ion Ratio Lower Upper

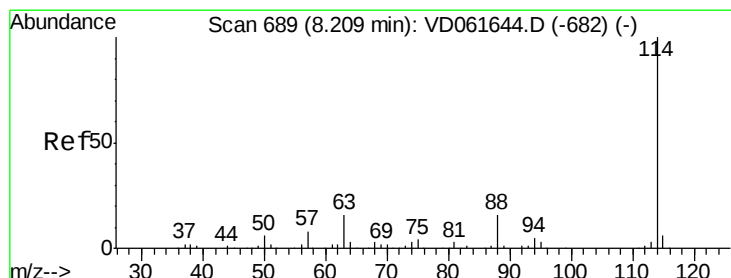
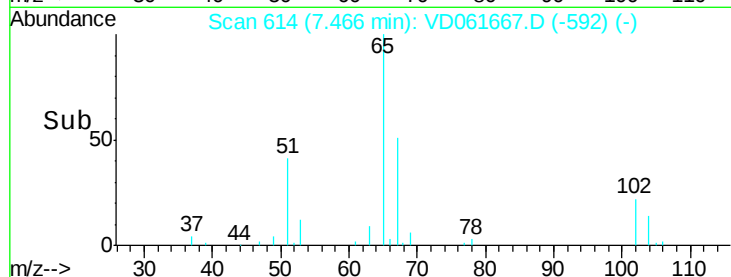
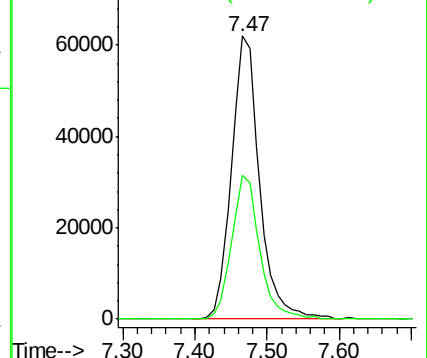
65 100

67 50.8 0.0 99.4



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: VD061667.D

Acq: 8 Apr 2019 23:14

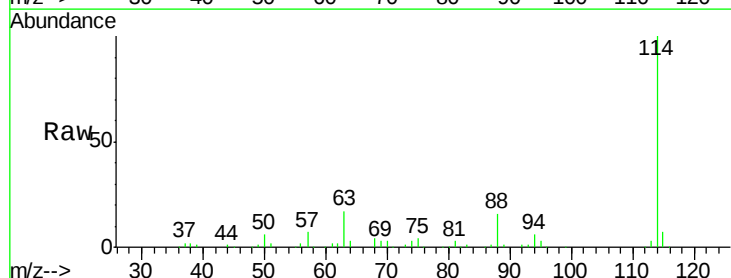
Tgt Ion: 114 Resp: 613949

Ion Ratio Lower Upper

114 100

63 16.7 0.0 31.2

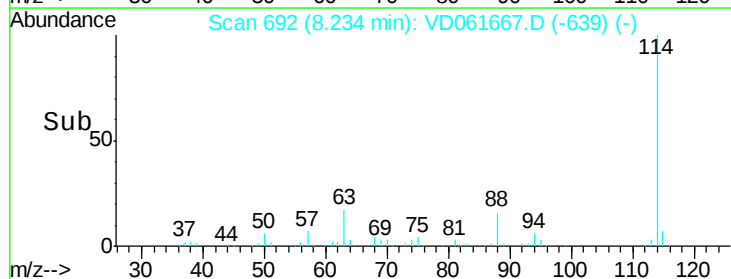
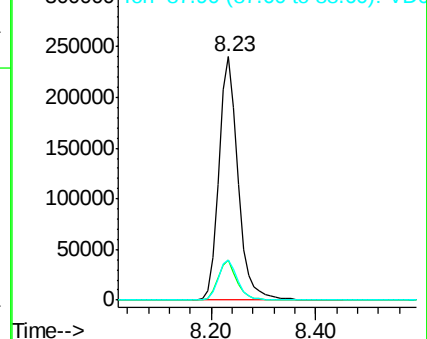
88 16.3 0.0 31.8

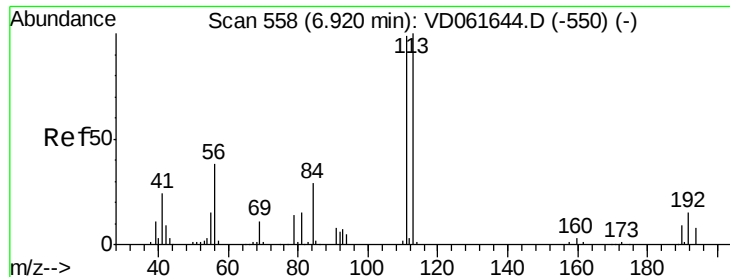


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

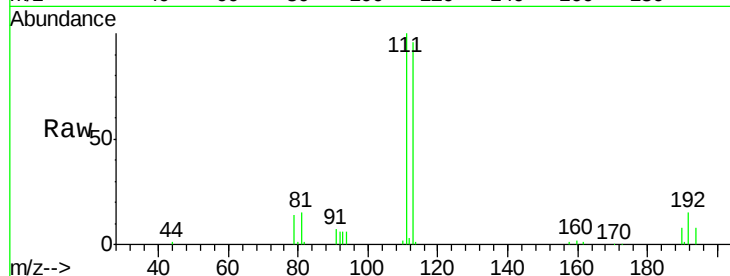




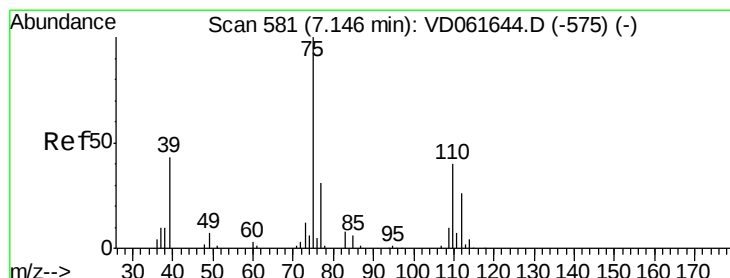
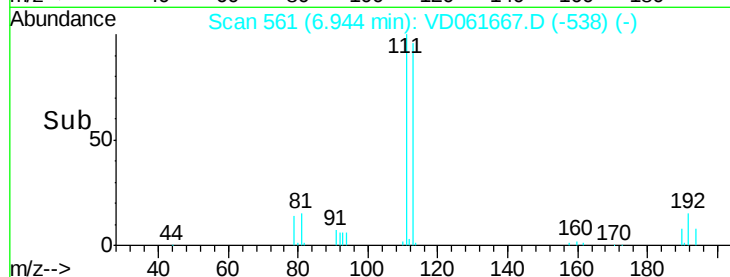
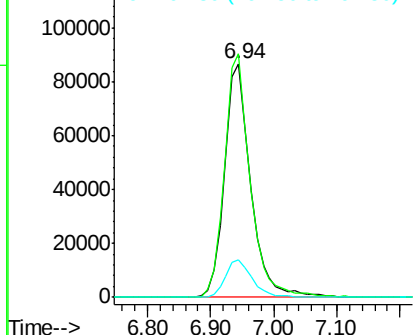
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 561
 Delta R.T. 0.02 min
 Lab File: VD061667.D
 Acq: 8 Apr 2019 23:14

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:113 Resp: 249689
 Ion Ratio Lower Upper
 113 100
 111 104.1 79.3 118.9
 192 16.0 12.3 18.5

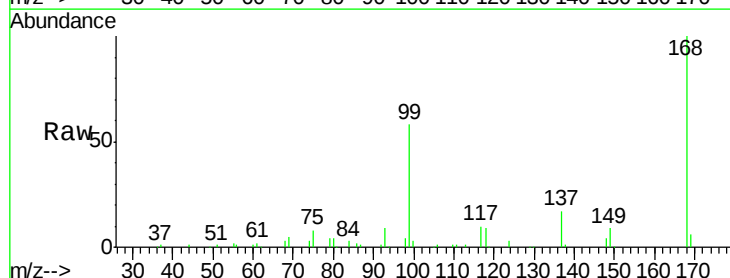


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

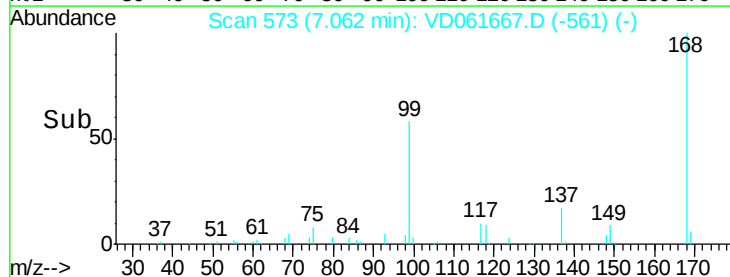
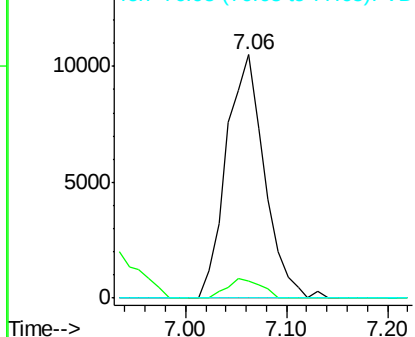


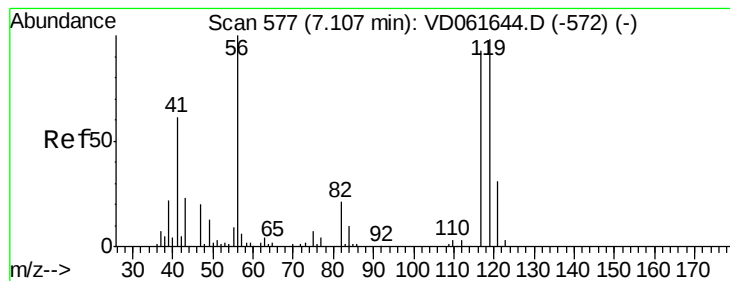
#36
 1,1-Dichloropropene
 Concen: 5.139 ug/l
 RT: 7.06 min Scan# 573
 Delta R.T. -0.08 min
 Lab File: VD061667.D
 Acq: 8 Apr 2019 23:14

Tgt Ion: 75 Resp: 27614
 Ion Ratio Lower Upper
 75 100
 110 7.3 19.7 59.0#
 77 0.0 24.8 37.2#



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: 5.957 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.04 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

Instrument :

MSVOA_D

ClientSampleId :

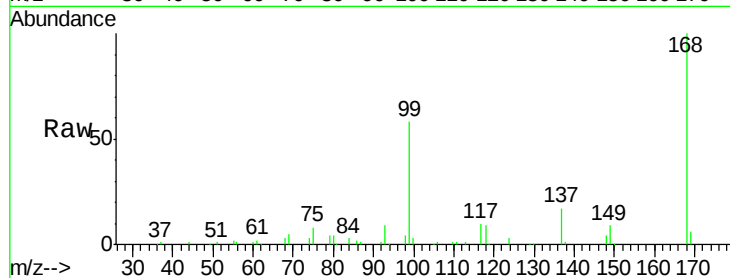
Tot Ion:117 Resp: 37511

Ion Ratio Lower Upper

117 100

119 3.8 77.9 116.9#

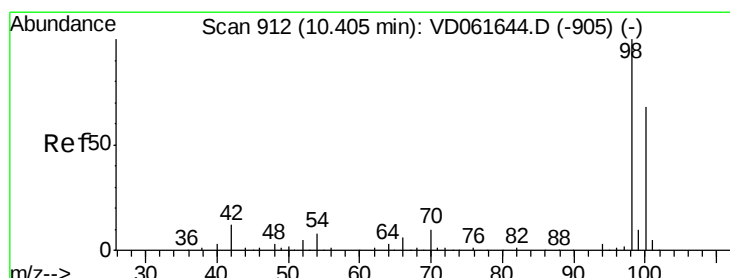
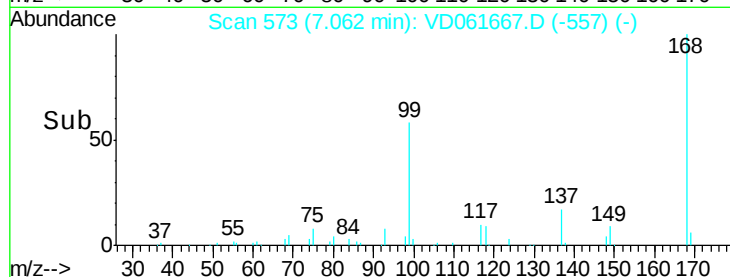
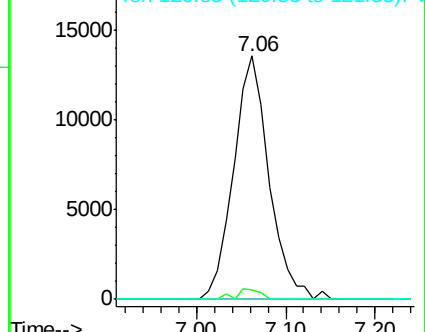
121 0.0 24.7 37.1#



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. 0.01 min

Lab File: VD061667.D

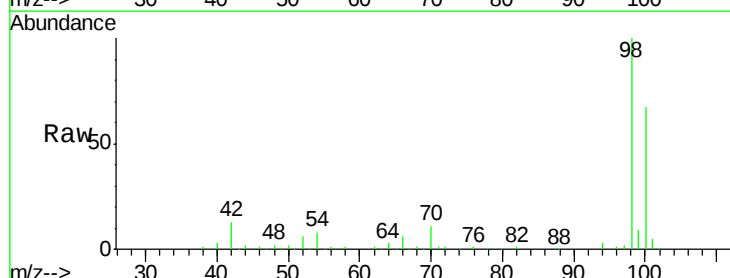
Acq: 8 Apr 2019 23:14

Tgt Ion: 98 Resp: 486714

Ion Ratio Lower Upper

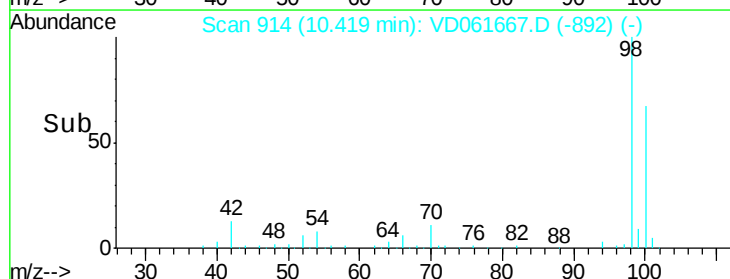
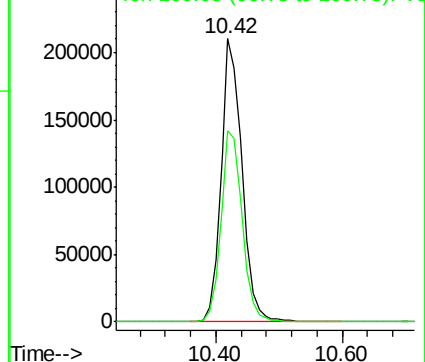
98 100

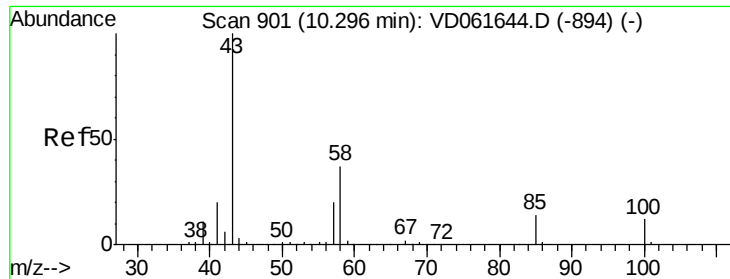
100 67.3 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.018 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.12 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

Instrument :

MSVOA_D

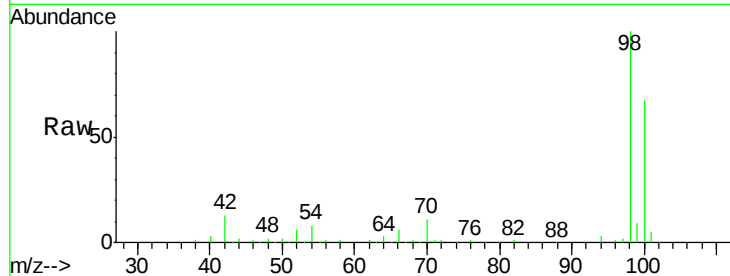
ClientSampleId :

Tot Ion: 43 Resp: 1913

Ion Ratio Lower Upper

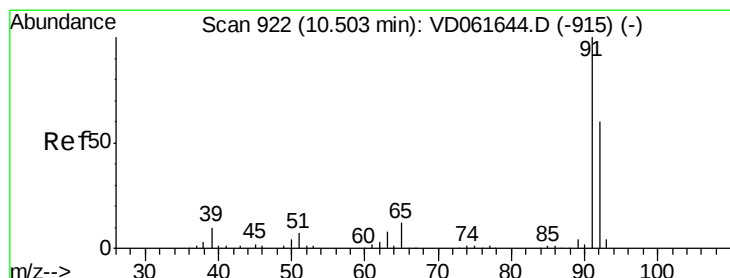
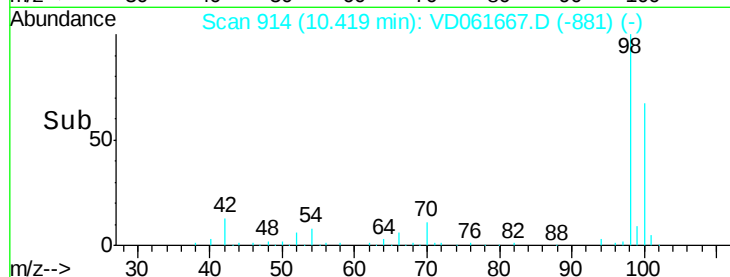
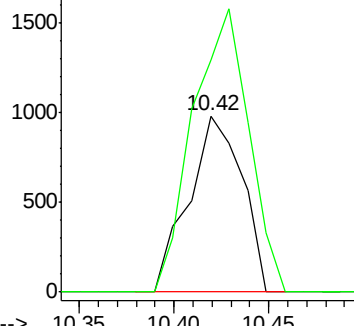
43 100

58 131.9 29.8 44.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 6.923 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061667.D

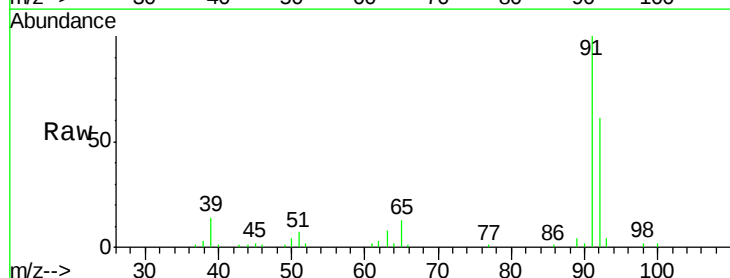
Acq: 8 Apr 2019 23:14

Tgt Ion: 92 Resp: 56039

Ion Ratio Lower Upper

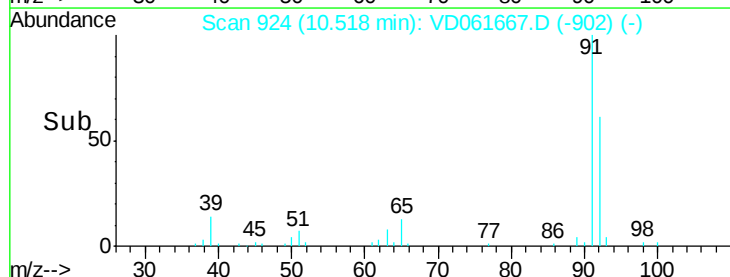
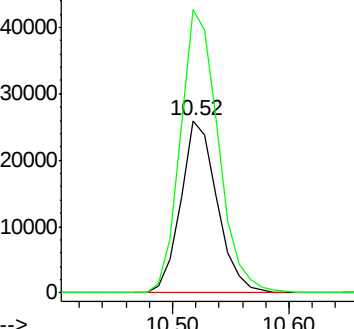
92 100

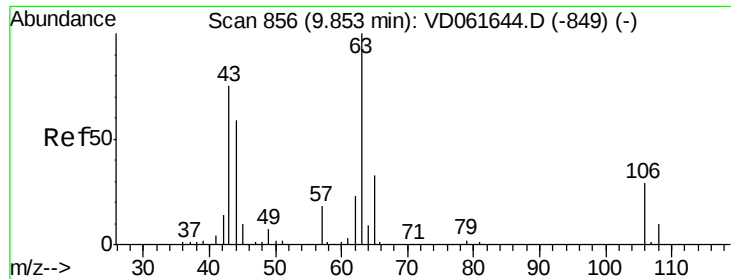
91 164.4 133.0 199.4



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#58

2-Chloroethyl Vinyl ether

Concen: 1.027 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.01 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

Instrument :

MSVOA_D

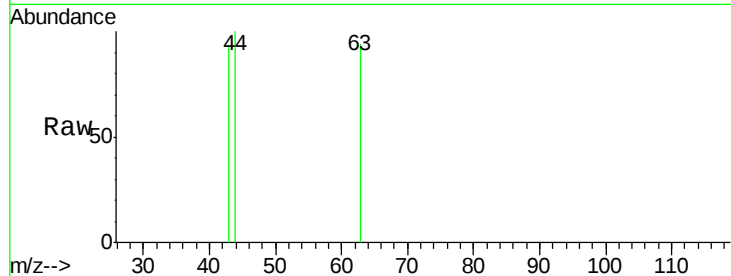
ClientSampleId :

Tot Ion: 63 Resp: 1395

Ion Ratio Lower Upper

63 100

106 0.0 23.0 34.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

800

600

400

200

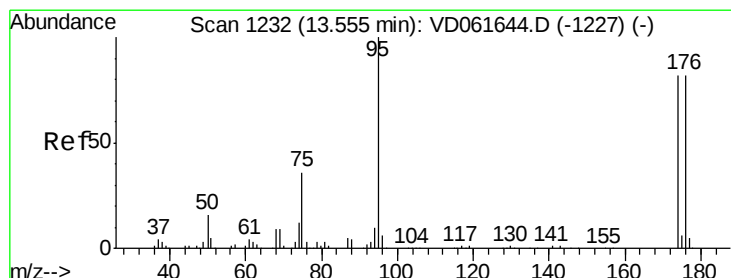
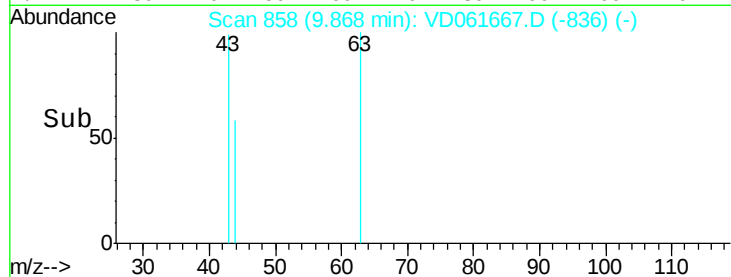
0

9.85

9.87

9.90

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

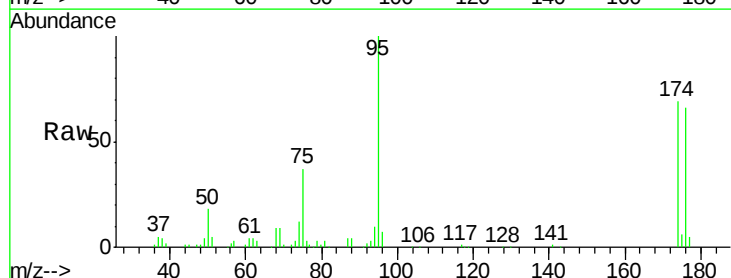
Tgt Ion: 95 Resp: 226675

Ion Ratio Lower Upper

95 100

174 69.5 0.0 164.6

176 66.4 0.0 165.0



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

200000

150000

100000

50000

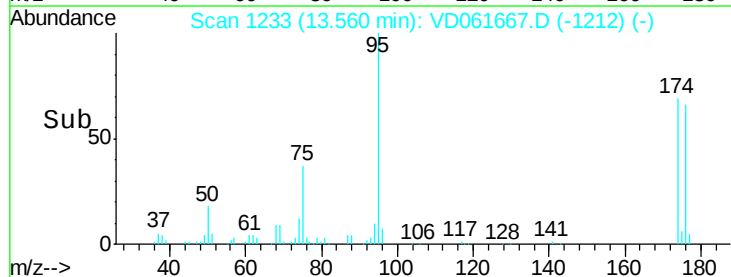
0

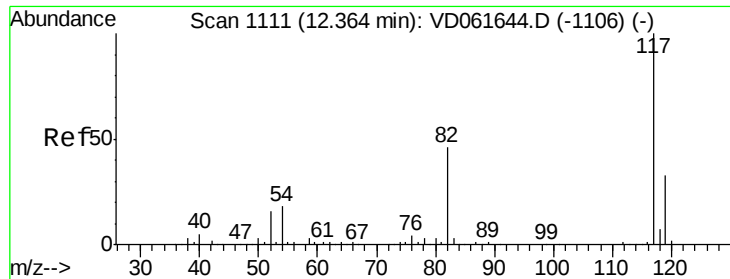
13.55

13.56

13.60

Time-->

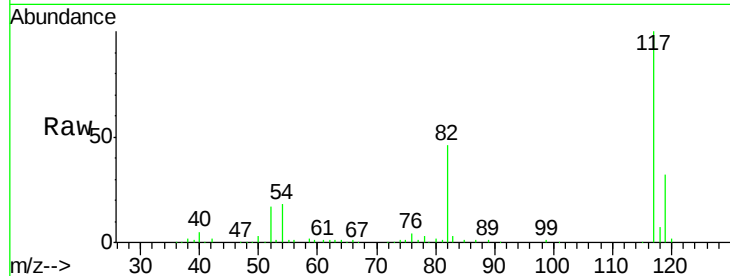




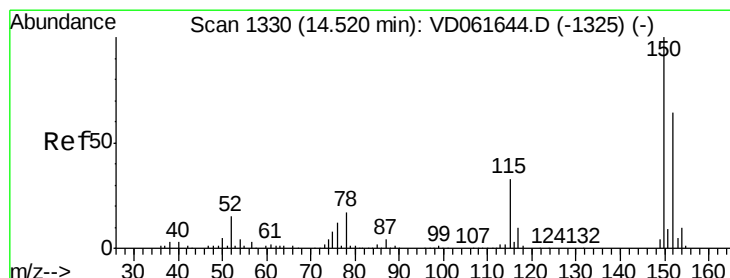
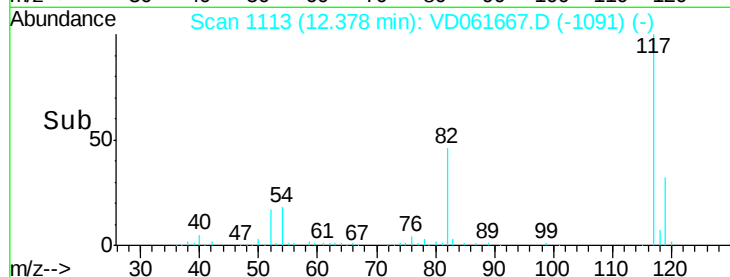
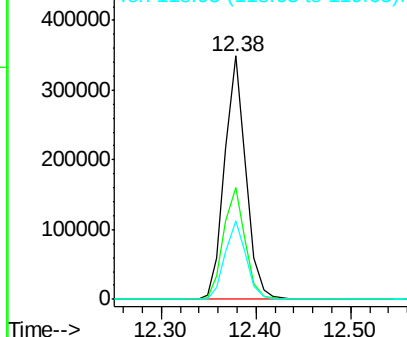
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061667.D
Acq: 8 Apr 2019 23:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 542061
Ion Ratio Lower Upper
117 100
82 45.7 36.8 55.2
119 32.1 26.1 39.1

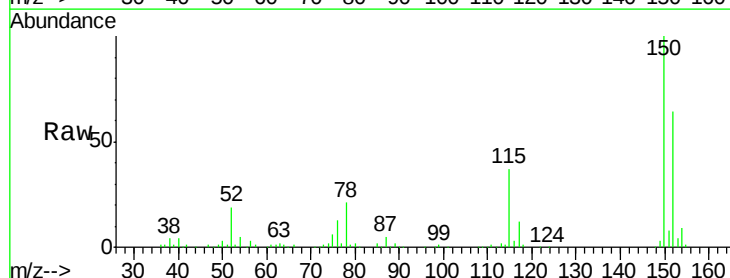


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

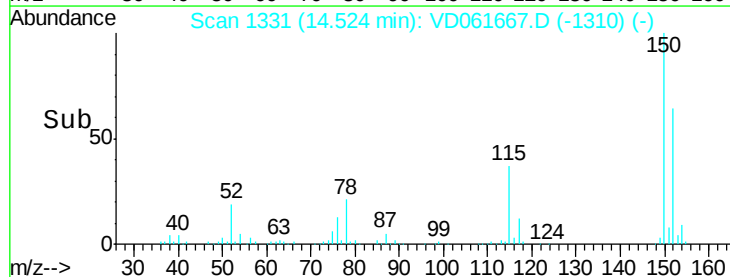
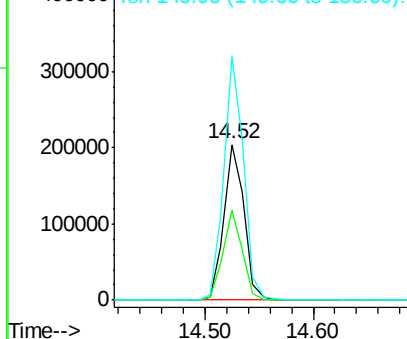


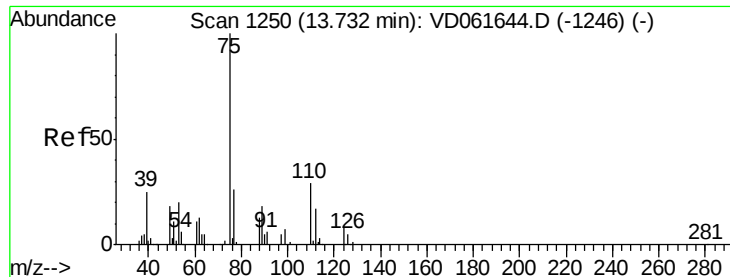
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD061667.D
Acq: 8 Apr 2019 23:14

Tgt Ion:152 Resp: 263335
Ion Ratio Lower Upper
152 100
115 58.3 26.4 79.2
150 156.8 0.0 320.6



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





#76

1,2,3-Trichloropropane

Concen: 19.668 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

Instrument :

MSVOA_D

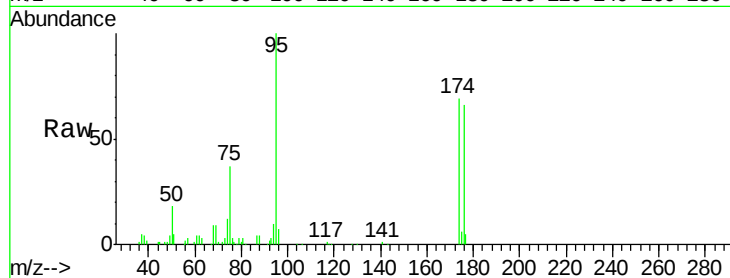
ClientSampleId :

Tot Ion: 75 Resp: 70465

Ion Ratio Lower Upper

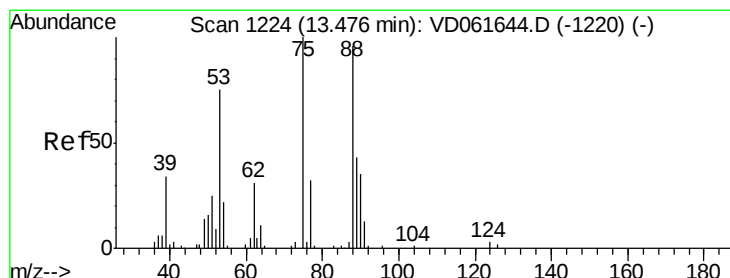
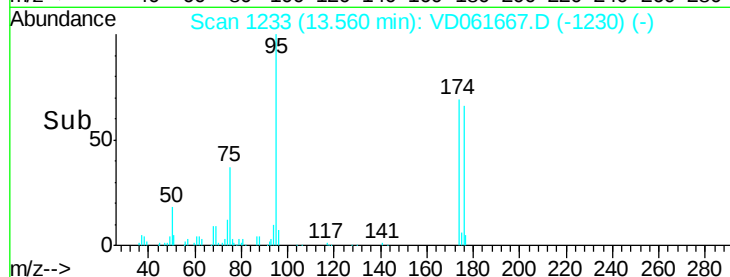
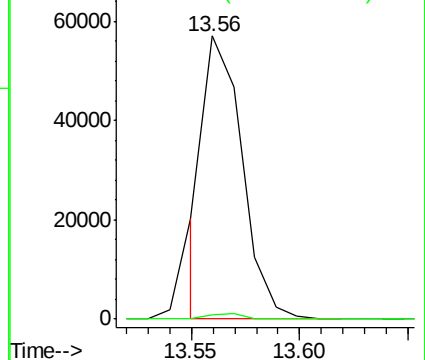
75 100

77 1.6 15.7 47.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 76.853 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD061667.D

Acq: 8 Apr 2019 23:14

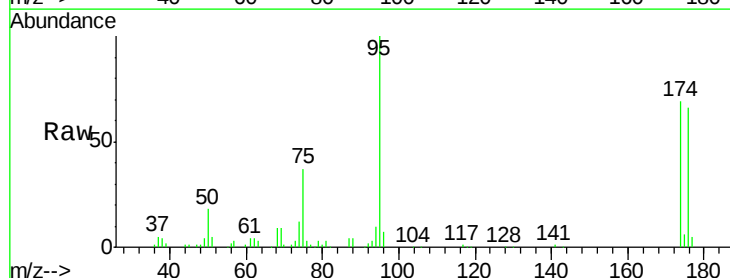
Tgt Ion: 75 Resp: 83553

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

89 0.0 34.2 51.2#



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

