

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058157.D
 Acq On : 15 Jun 2018 17:35
 Operator : VA/AP
 Sample : J3523-06
 Misc : 4.17g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 23:18:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	648629	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	837554	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	633060	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	246512	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	399914	61.67	ug/l	0.00
Spiked Amount			Recovery	=	123.34%	
35) Dibromofluoromethane	5.55	113	170573	26.32	ug/l	0.00
Spiked Amount			Recovery	=	52.64%	
50) Toluene-d8	8.71	98	905288	58.76	ug/l	0.00
Spiked Amount			Recovery	=	117.52%	
62) 4-Bromofluorobenzene	11.93	95	324196	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	

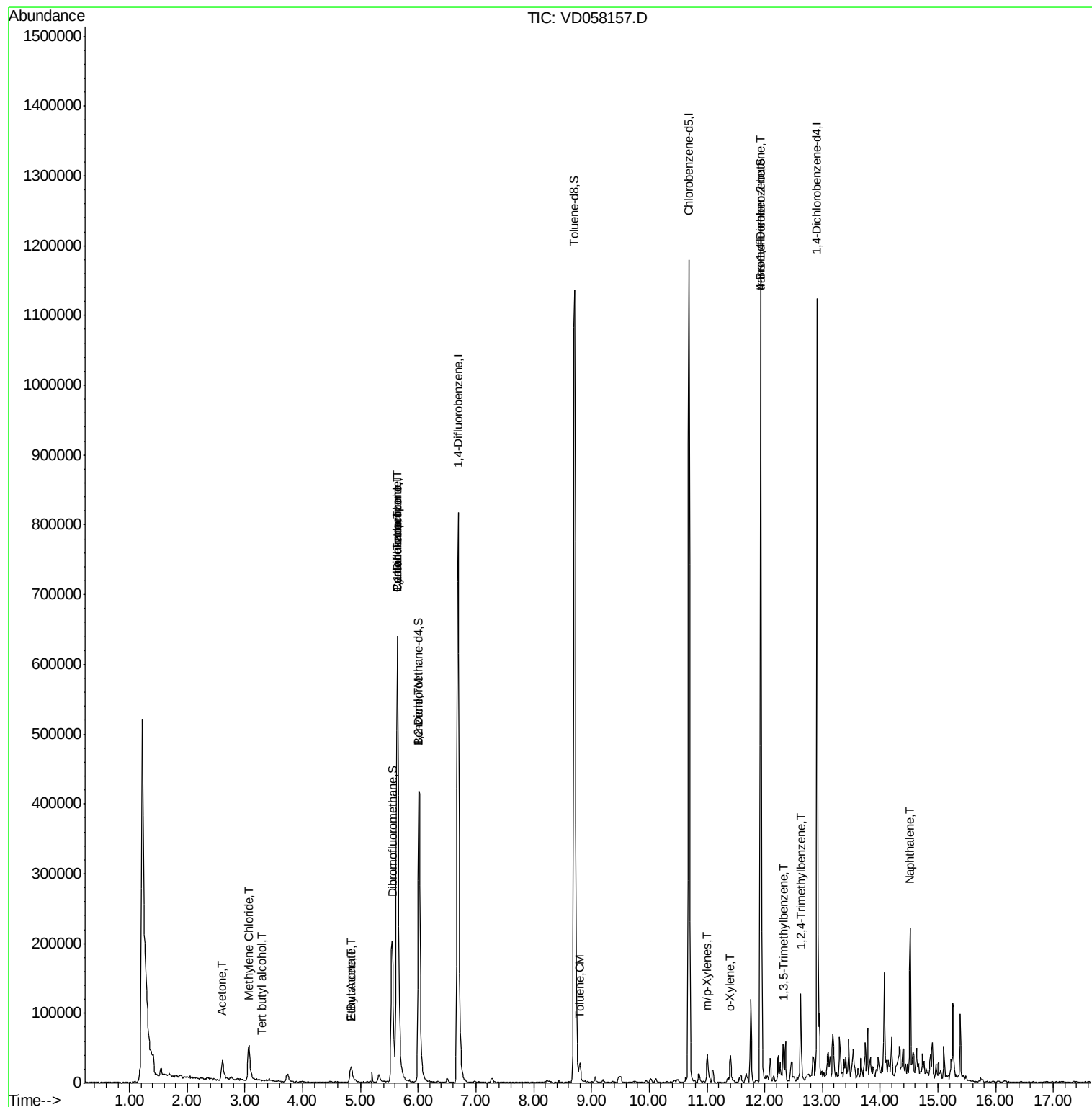
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.29	59	178	1.025	ug/l #	74
16) Acetone	2.61	43	59917	64.133	ug/l	96
20) Methylene Chloride	3.07	84	27568	5.327	ug/l	88
25) 2-Butanone	4.84	43	17094	8.051	ug/l	97
31) Cyclohexane	5.64	56	16145	1.432	ug/l #	9
36) 1,1-Dichloropropene	5.64	75	54470	5.903	ug/l #	50
37) Ethyl Acetate	4.84	43	17094	3.395	ug/l #	72
38) Carbon Tetrachloride	5.64	117	53889	5.926	ug/l #	17
40) Benzene	6.01	78	26341	1.222	ug/l	99
52) Toluene	8.80	92	12564	1.016	ug/l	86
68) m/p-Xylenes	11.00	106	11860	1.571	ug/l	85
69) o-Xylene	11.41	106	7908	1.055	ug/l	75
80) 1,3,5-Trimethylbenzene	12.32	105	23369	1.835	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.93	75	154705	168.677	ug/l #	6
82) 4-Chlorotoluene	12.31	91	3955	Below Cal	#	50
84) 1,2,4-Trimethylbenzene	12.63	105	55492	4.053	ug/l	93
89) n-Butylbenzene	13.19	91	9687	Below Cal	#	54
95) Naphthalene	14.52	128	110495	13.884	ug/l	99

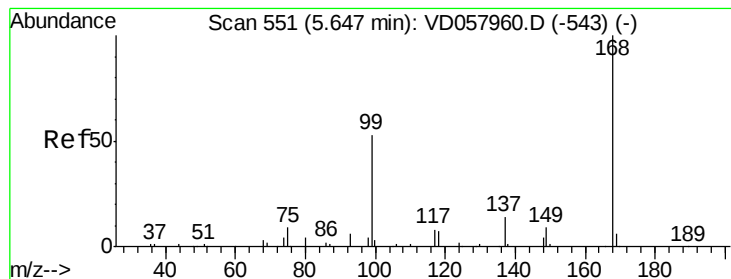
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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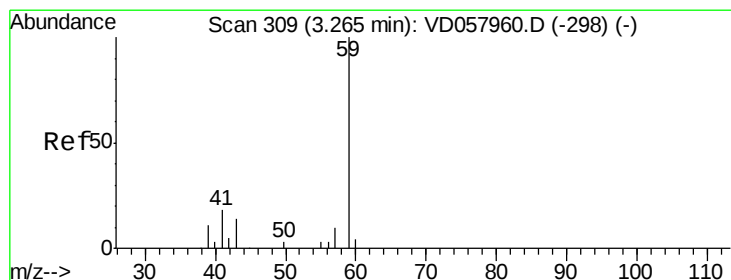
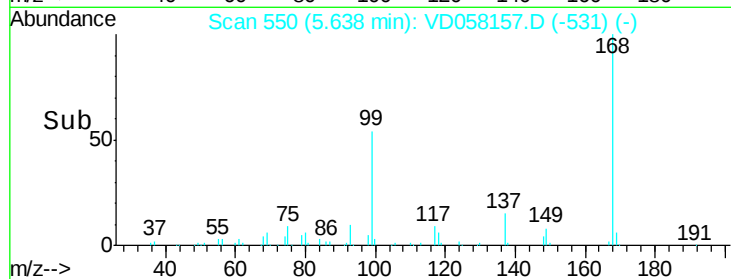
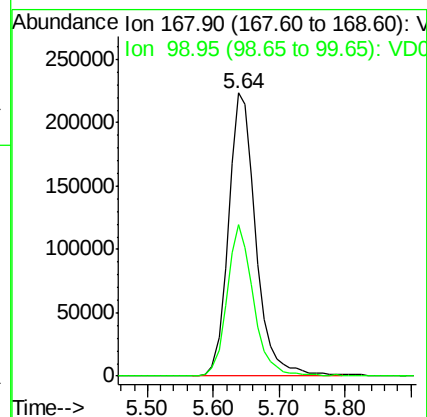
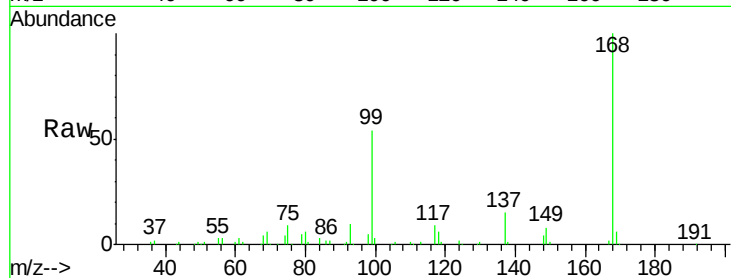




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.01 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

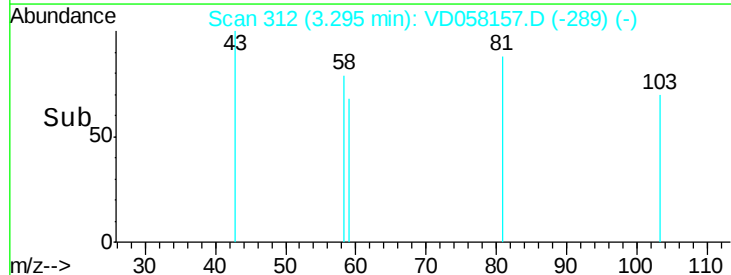
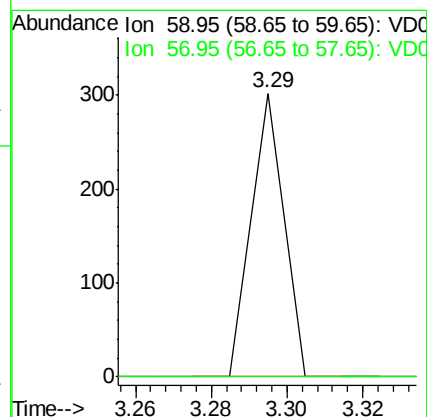
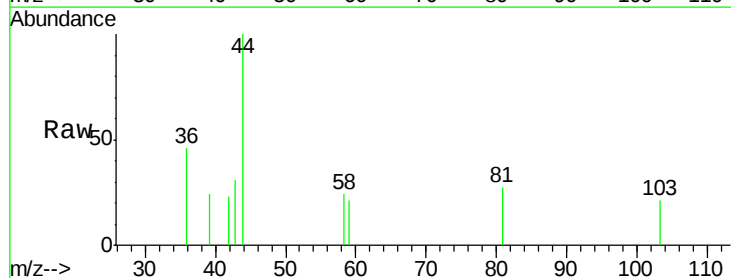
Instrument :
MSVOA_D
ClientSampleId :

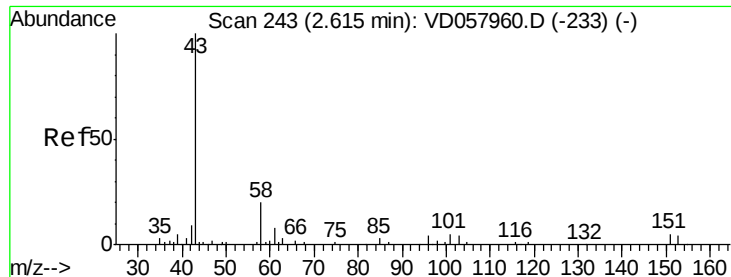
Tot Ion:168 Resp: 648629
Ion Ratio Lower Upper
168 100
99 53.7 46.8 70.2



#11
Tert butyl alcohol
Concen: 1.025 ug/l
RT: 3.29 min Scan# 312
Delta R.T. 0.03 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

Tgt Ion: 59 Resp: 178
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#





#16

Acetone

Concen: 64.133 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

Instrument :

MSVOA_D

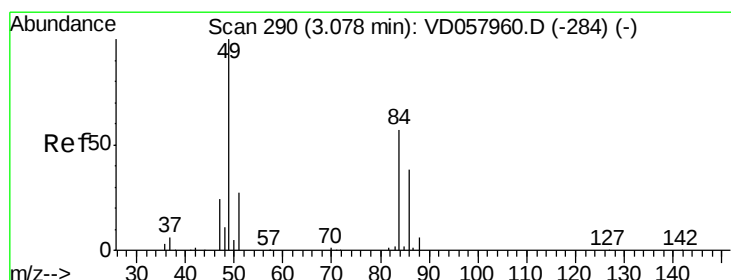
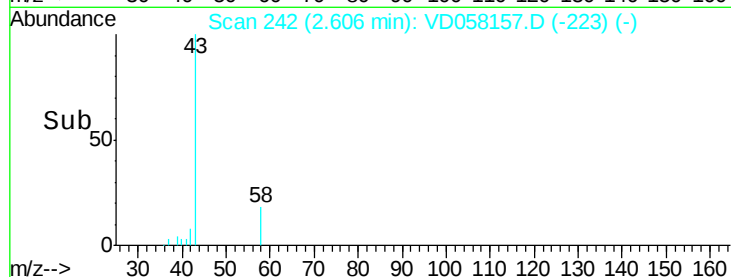
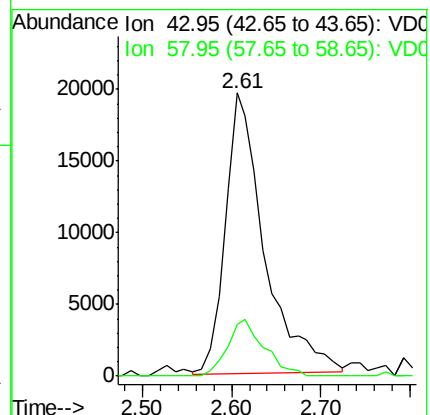
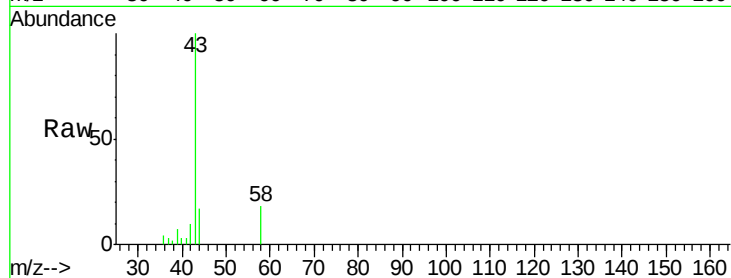
ClientSampleId :

Tot Ion: 43 Resp: 59917

Ion Ratio Lower Upper

43 100

58 18.1 15.8 23.8



#20

Methylene Chloride

Concen: 5.327 ug/l

RT: 3.07 min Scan# 289

Delta R.T. -0.01 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

Tgt Ion: 84 Resp: 27568

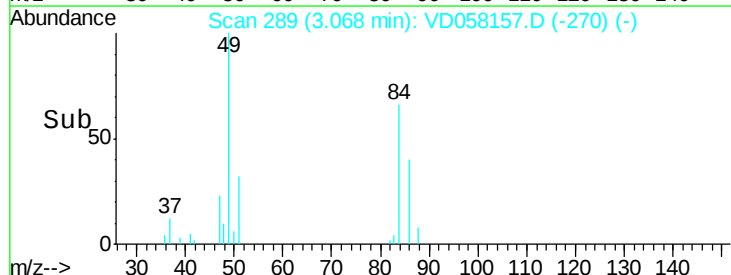
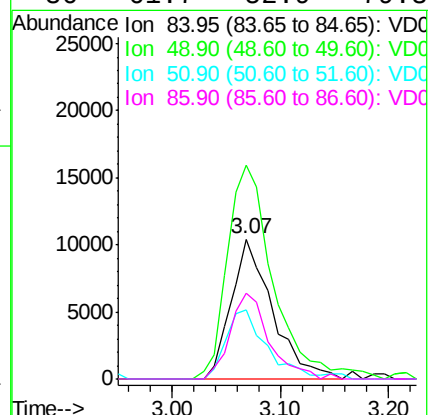
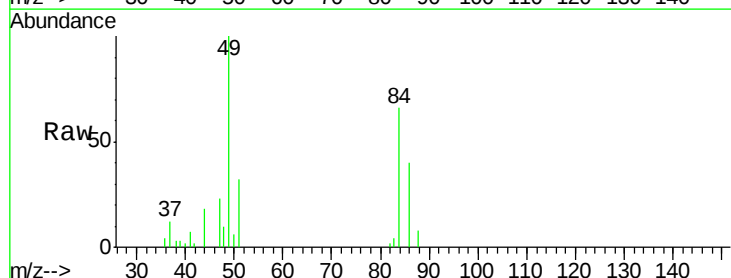
Ion Ratio Lower Upper

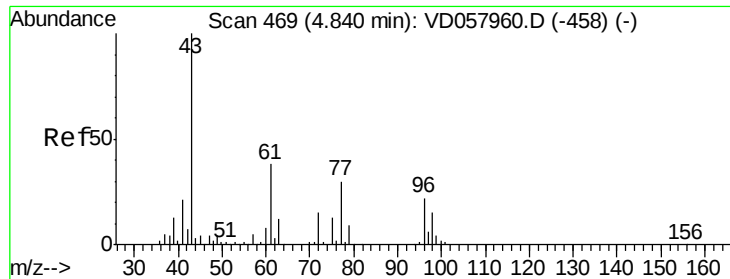
84 100

49 152.4 141.4 212.0

51 49.0 38.3 57.5

86 61.7 52.9 79.3





#25

2-Butanone

Concen: 8.051 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

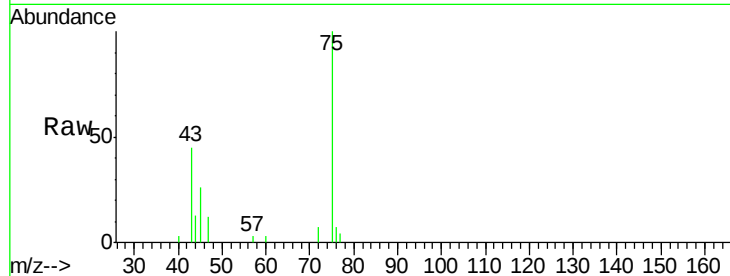
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 17094

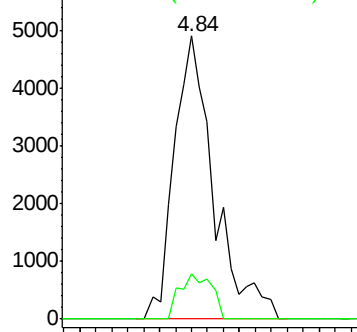
Ion Ratio Lower Upper

43 100

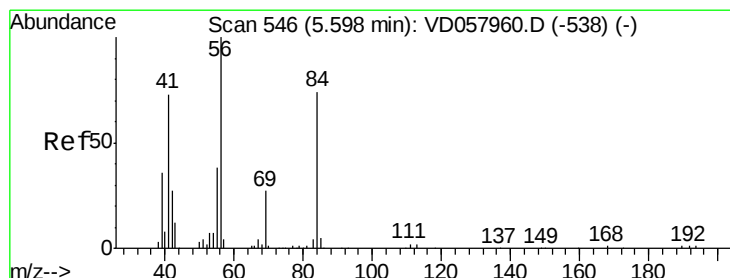
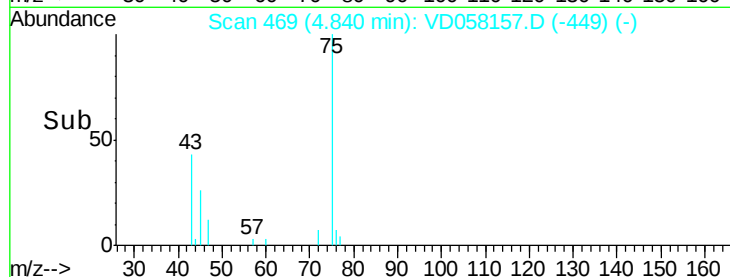
72 16.2 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



Time--> 4.70 4.80 4.90 5.00



#31

Cyclohexane

Concen: 1.432 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.04 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

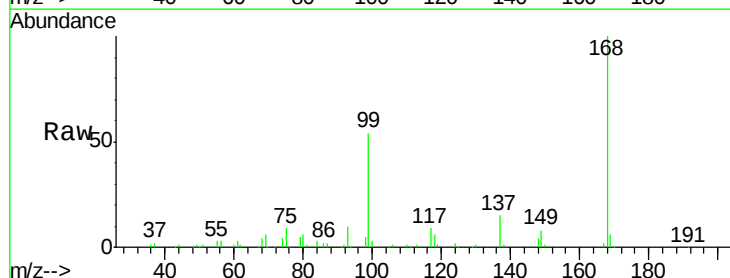
Tgt Ion: 56 Resp: 16145

Ion Ratio Lower Upper

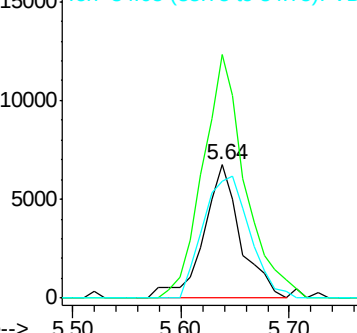
56 100

69 187.6 21.5 32.3#

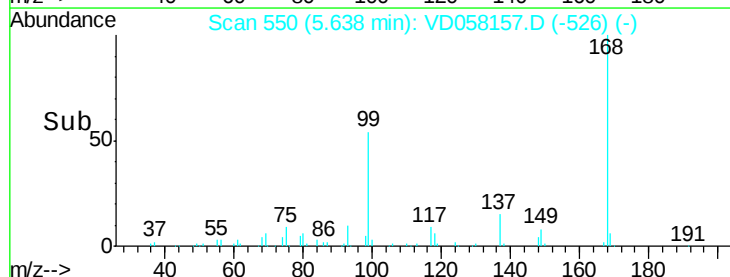
84 87.5 61.0 91.6

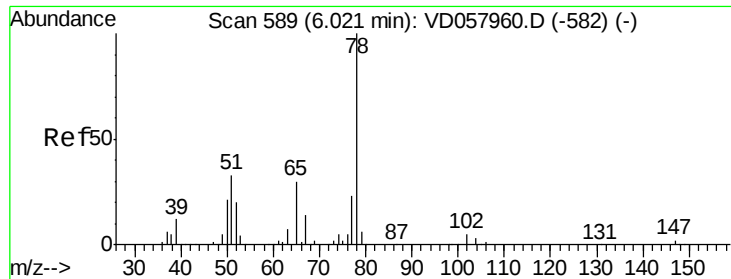


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



Time--> 5.50 5.60 5.70





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.00 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

Instrument :

MSVOA_D

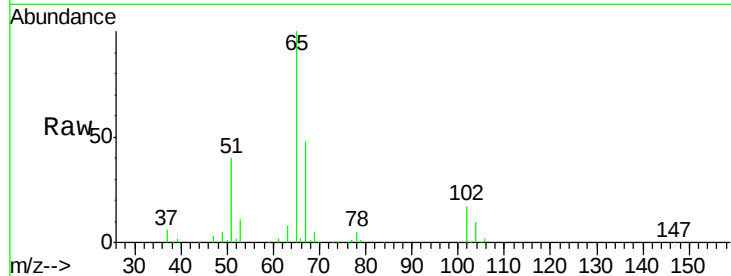
ClientSampleId :

Tot Ion: 65 Resp: 399914

Ion Ratio Lower Upper

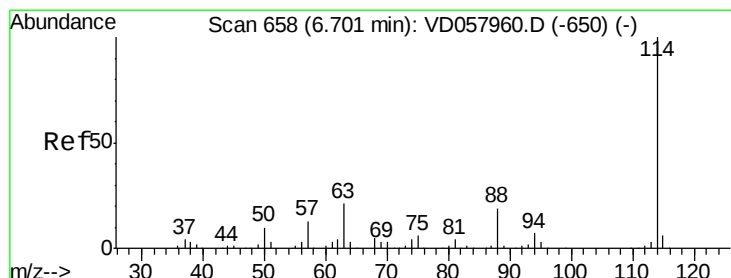
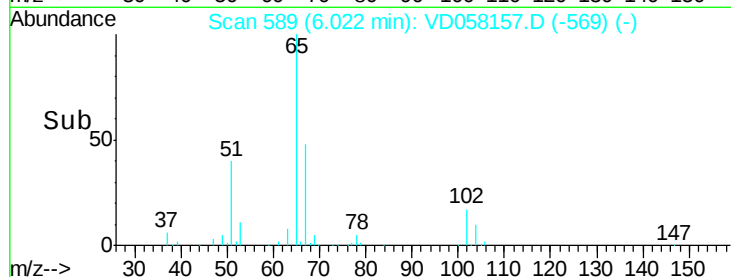
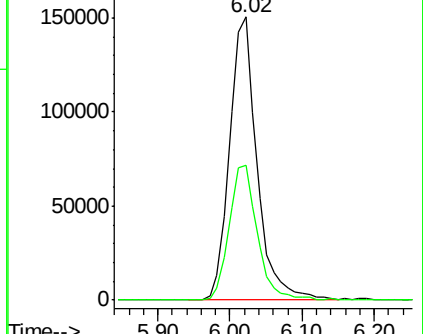
65 100

67 47.6 0.0 94.0



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: 6.69 min Scan# 657

Delta R.T. -0.01 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

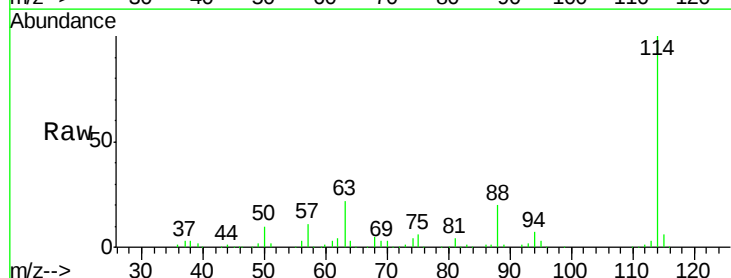
Tgt Ion: 114 Resp: 837554

Ion Ratio Lower Upper

114 100

63 22.1 0.0 42.8

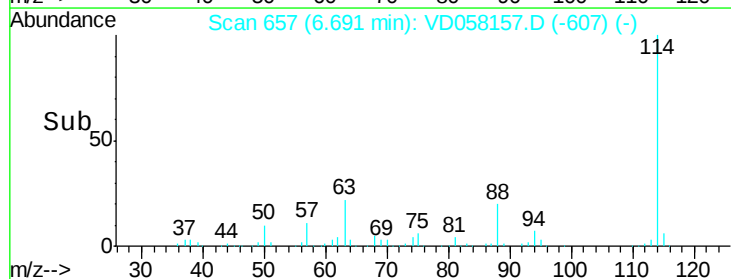
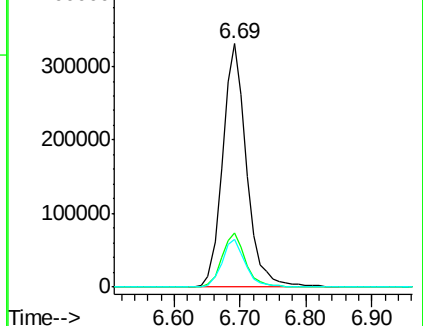
88 19.7 0.0 37.8

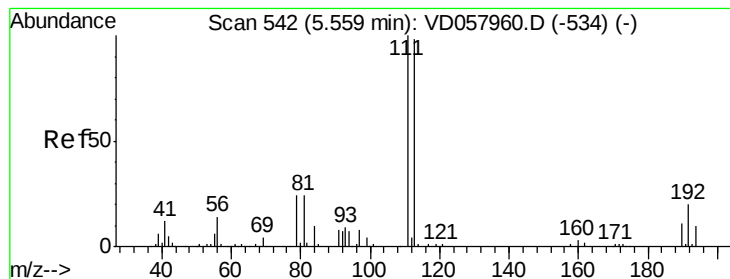


Abundance Ion 114.00 (113.70 to 114.70): V

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: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

Instrument :
MSVOA_D
ClientSampled :

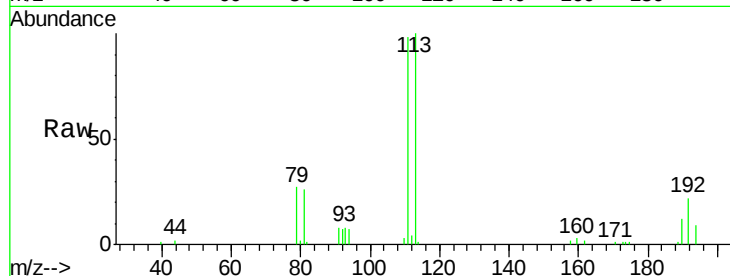
Tot Ion:113 Resp: 170573

Ion Ratio Lower Upper

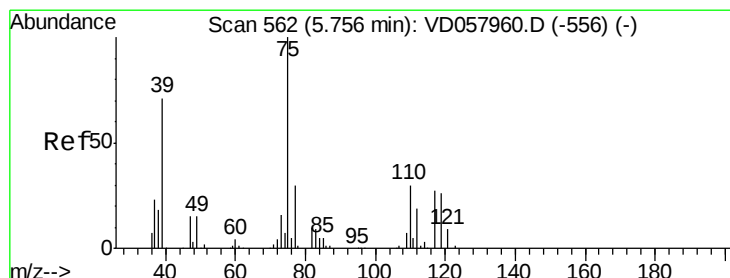
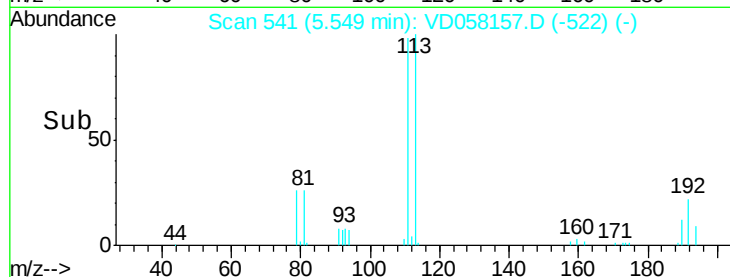
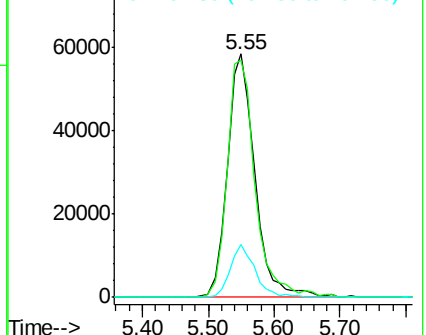
113 100

111 97.7 81.5 122.3

192 21.7 16.4 24.6



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: 5.903 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.12 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

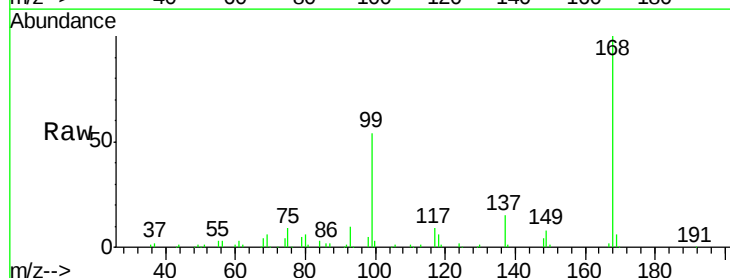
Tgt Ion: 75 Resp: 54470

Ion Ratio Lower Upper

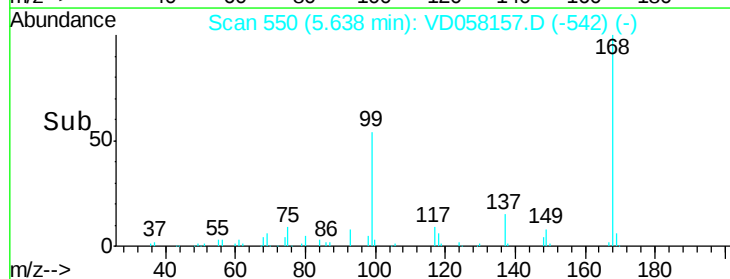
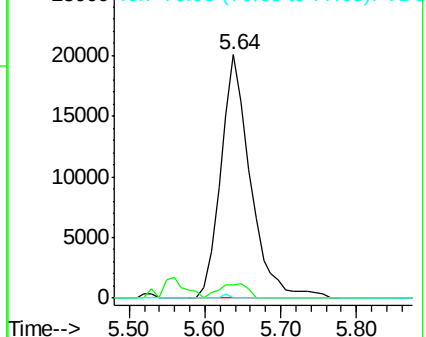
75 100

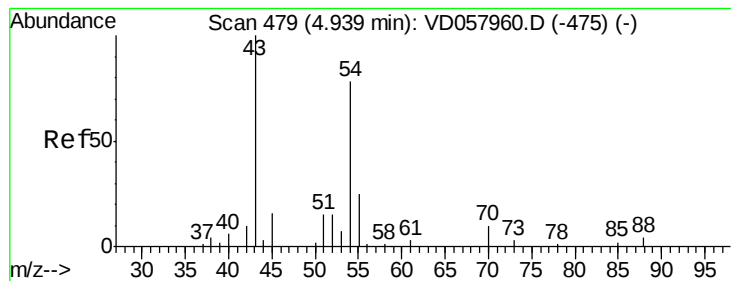
110 5.6 14.8 44.3#

77 0.0 23.9 35.9#



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: 3.395 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.10 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

Instrument :

MSVOA_D

ClientSampleId :

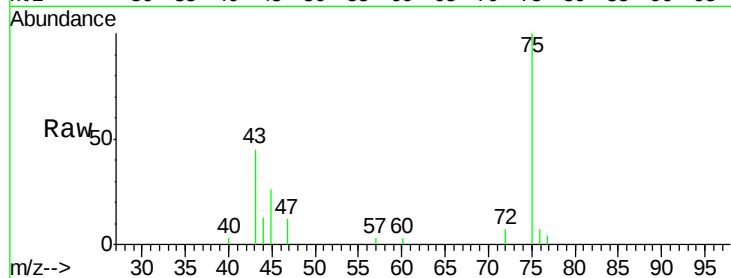
Tot Ion: 43 Resp: 17094

Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

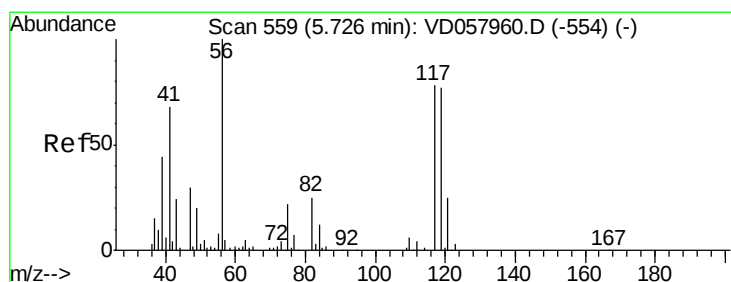
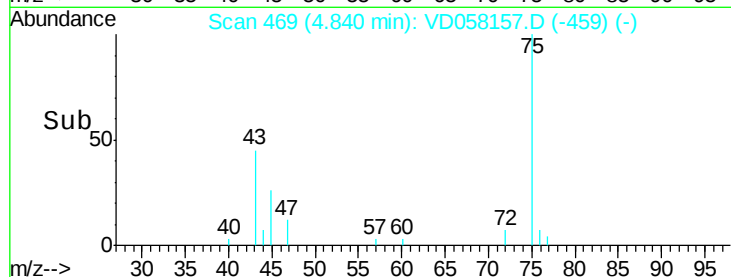
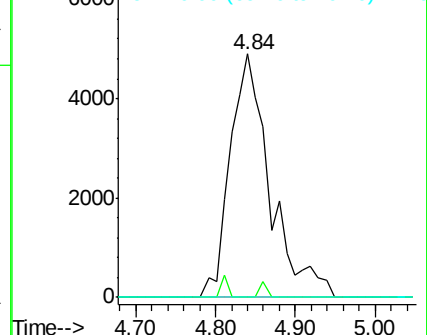
70 0.0 5.7 8.5#



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: 5.926 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

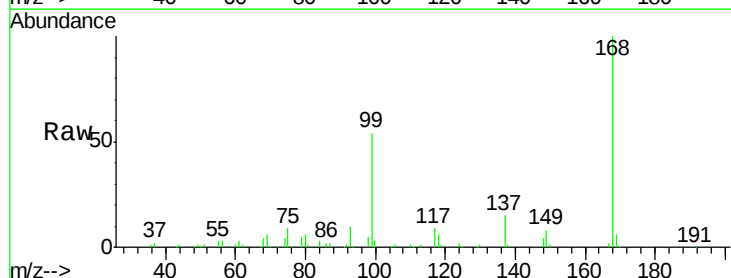
Tgt Ion: 117 Resp: 53889

Ion Ratio Lower Upper

117 100

119 6.1 76.1 114.1#

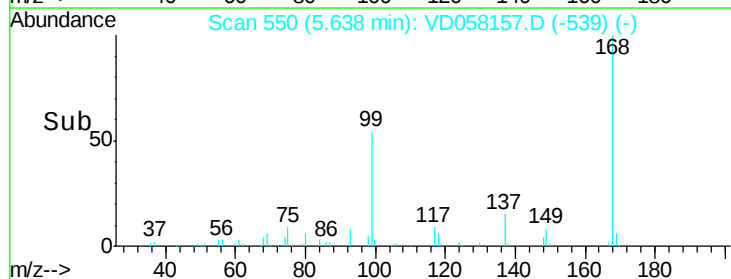
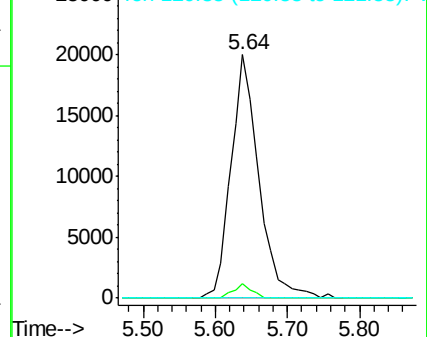
121 0.0 24.9 37.3#

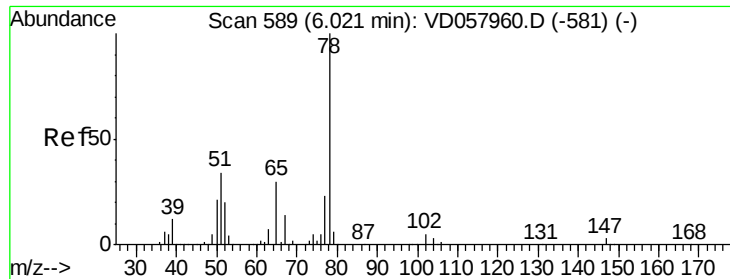


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#40

Benzene

Concen: 1.222 ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

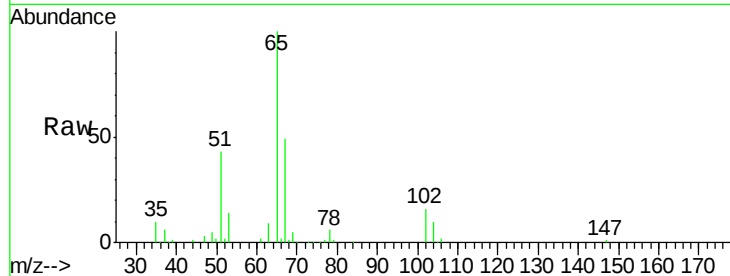
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 78 Resp: 26341

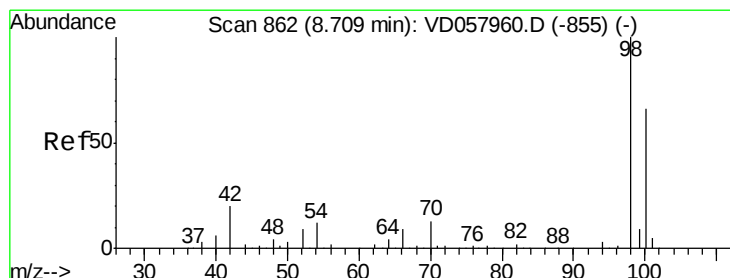
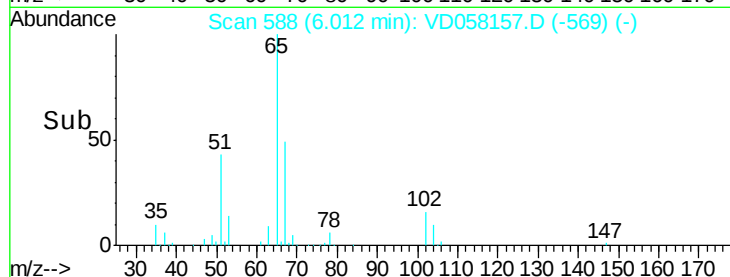
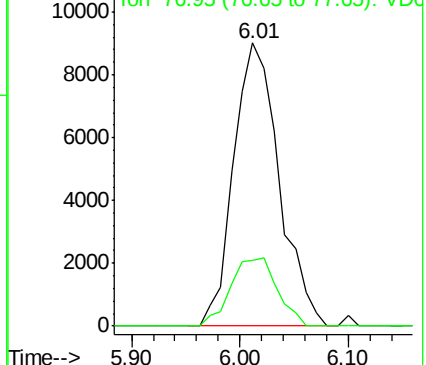
Ion Ratio Lower Upper

78 100

77 23.0 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.00 min

Lab File: VD058157.D

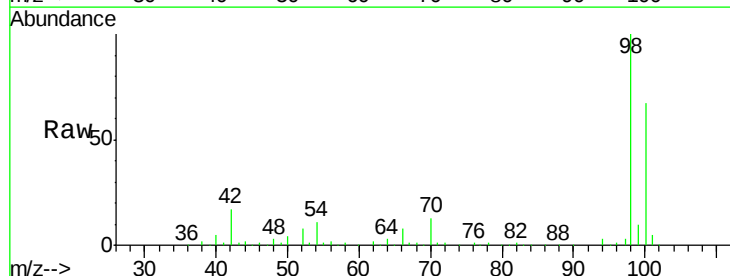
Acq: 15 Jun 2018 17:35

Tgt Ion: 98 Resp: 905288

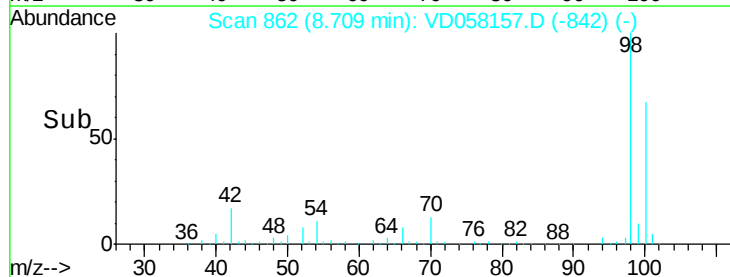
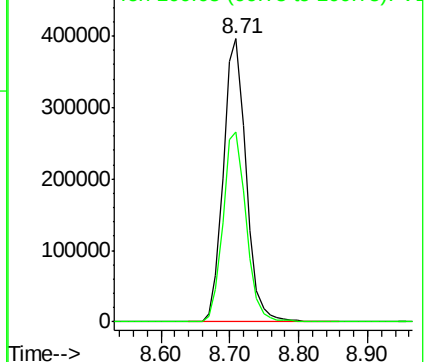
Ion Ratio Lower Upper

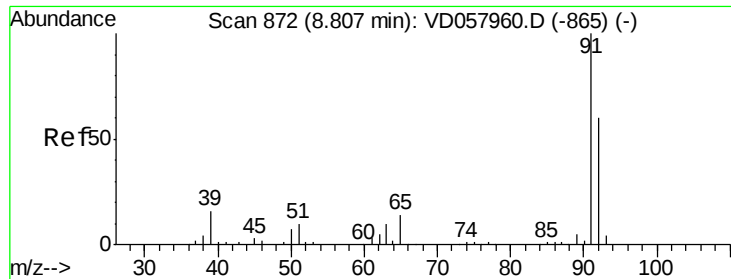
98 100

100 67.3 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 1.016 ug/l

RT: 8.80 min Scan# 871

Delta R.T. -0.01 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

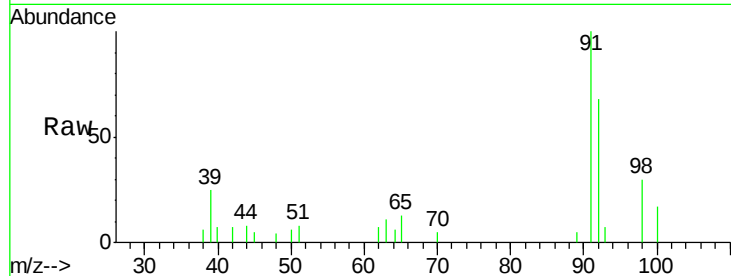
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 12564

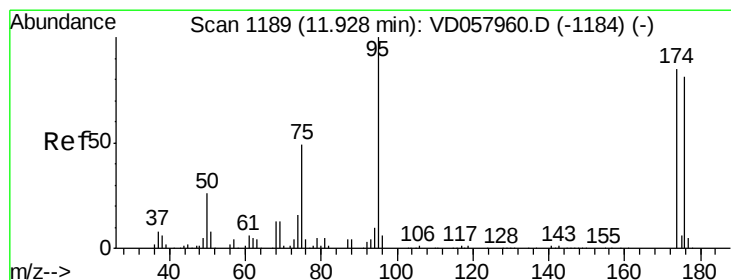
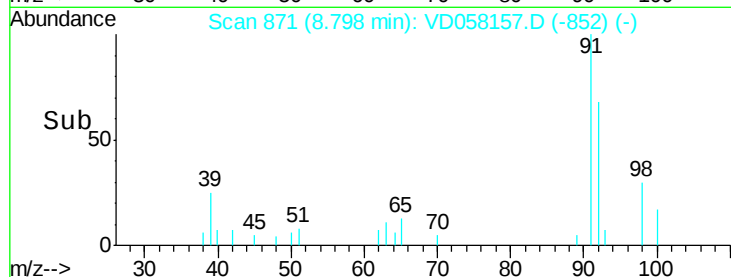
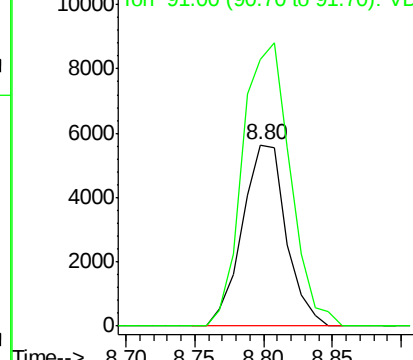
Ion Ratio Lower Upper

92 100

91 146.9 133.0 199.6



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: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

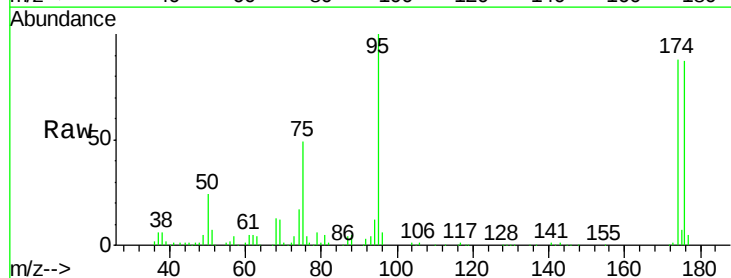
Tgt Ion: 95 Resp: 324196

Ion Ratio Lower Upper

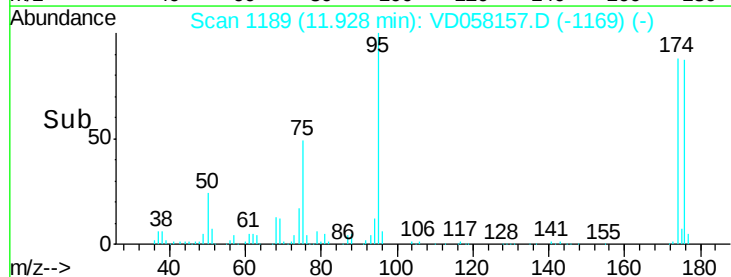
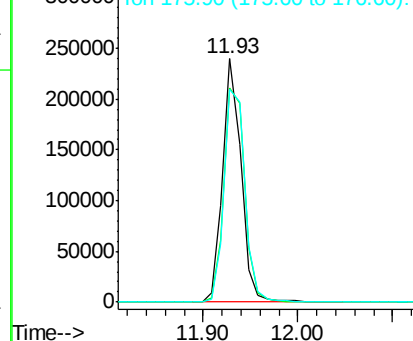
95 100

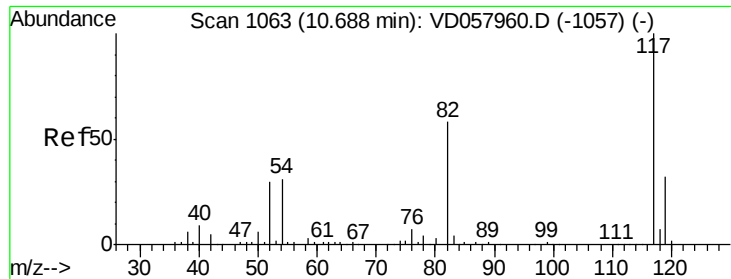
174 87.9 0.0 169.4

176 87.2 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

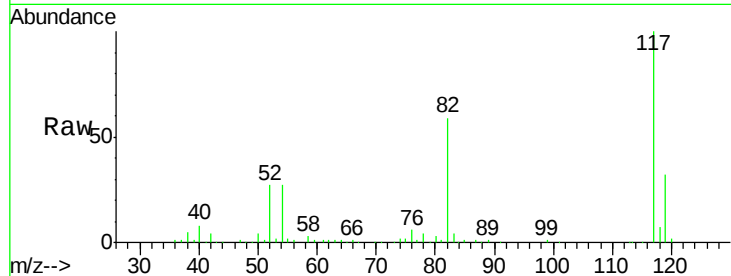




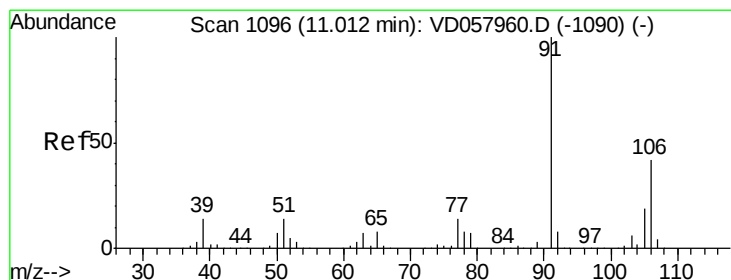
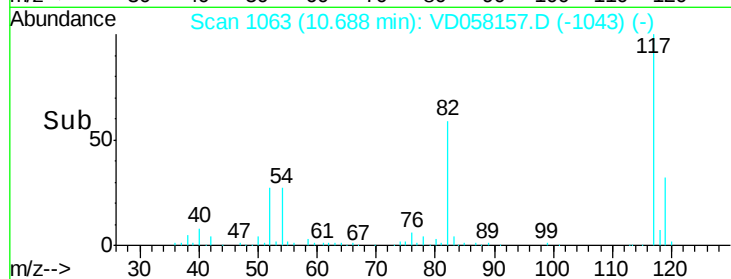
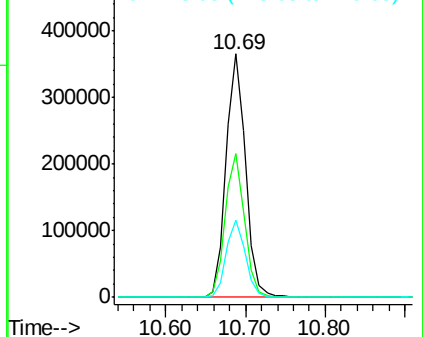
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 633060
Ion Ratio Lower Upper
117 100
82 59.0 46.8 70.2
119 31.7 25.8 38.6

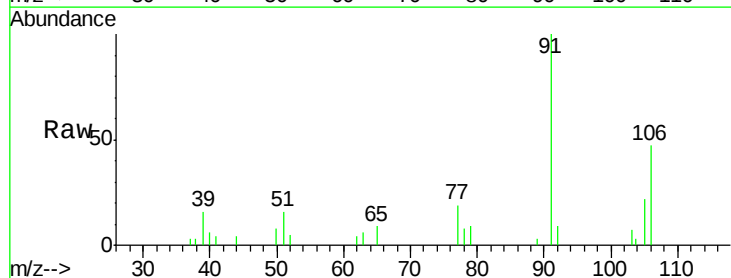


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

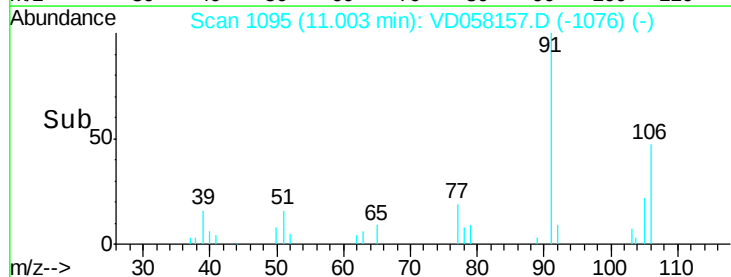
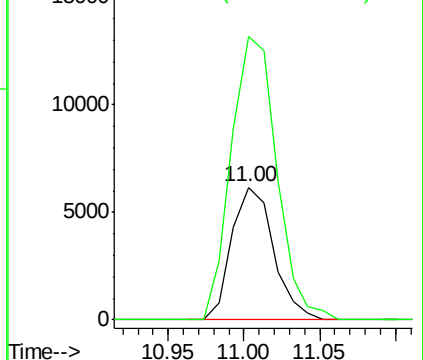


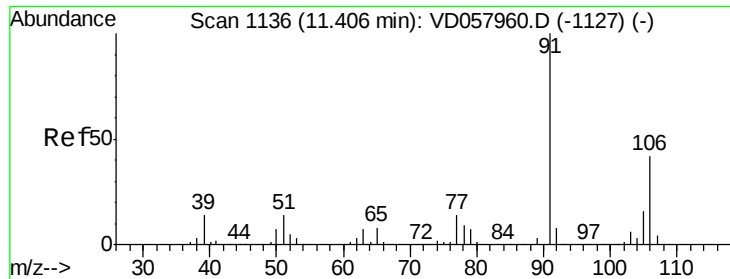
#68
m/p-Xylenes
Concen: 1.571 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

Tgt Ion:106 Resp: 11860
Ion Ratio Lower Upper
106 100
91 213.2 190.4 285.6



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

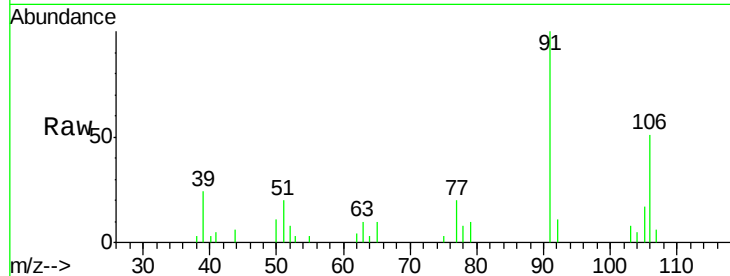




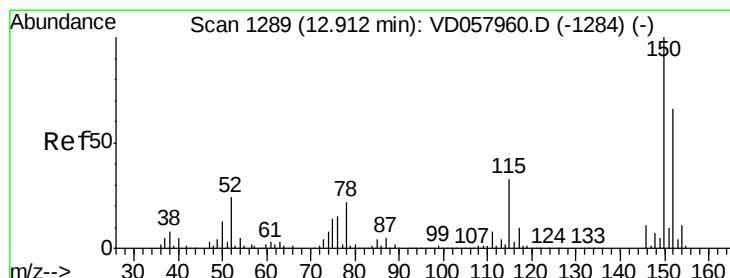
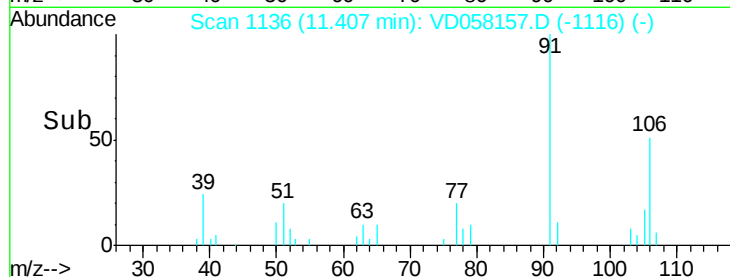
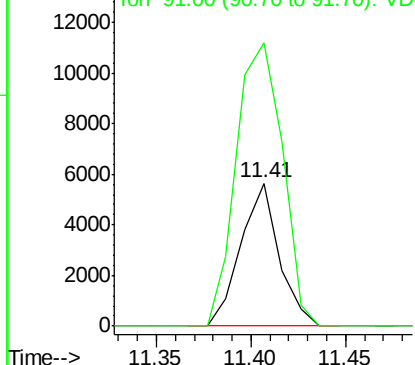
#69
o-Xylene
Concen: 1.055 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 7908
Ion Ratio Lower Upper
106 100
91 197.8 120.6 361.7

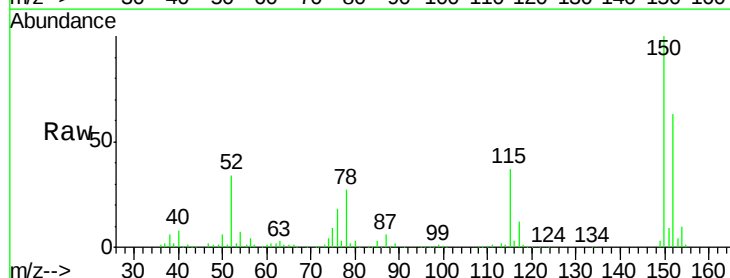


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

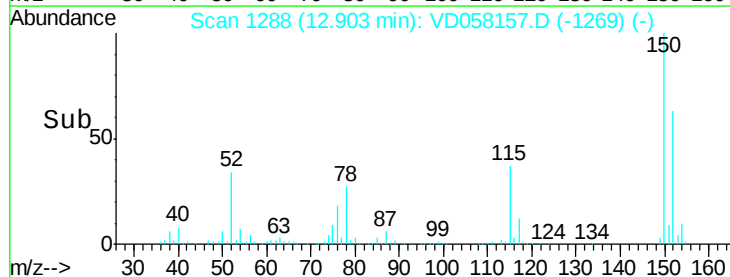
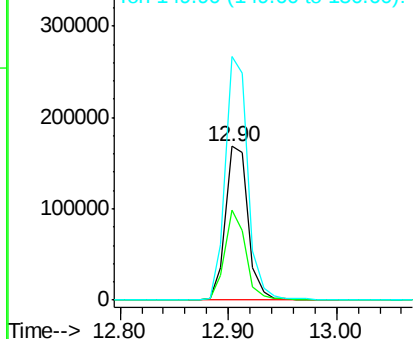


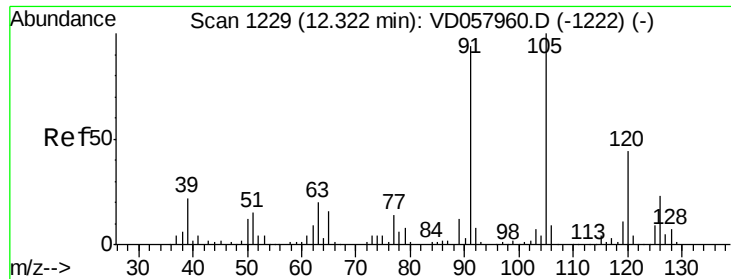
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

Tgt Ion:152 Resp: 246512
Ion Ratio Lower Upper
152 100
115 58.4 25.6 76.6
150 158.4 0.0 306.8



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

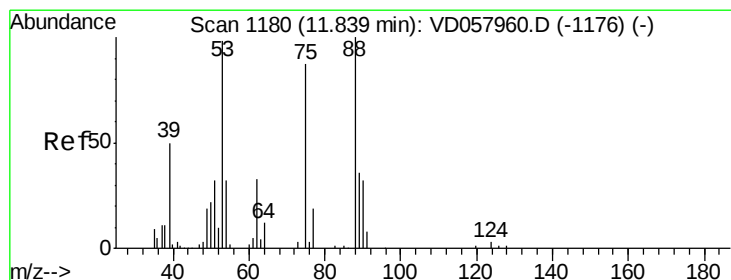
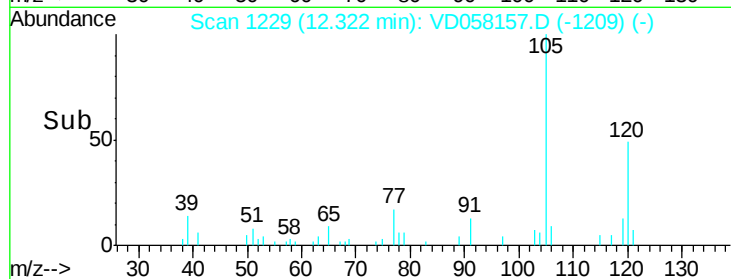
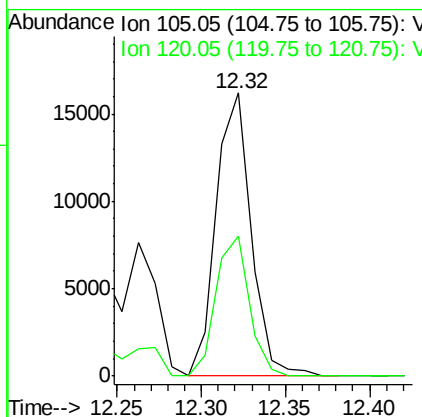
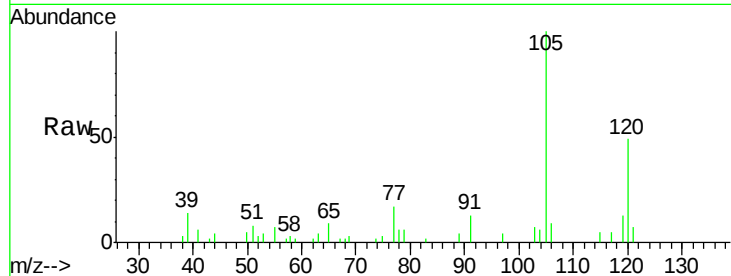




#80
 1,3,5-Trimethylbenzene
 Concen: 1.835 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VD058157.D
 Acq: 15 Jun 2018 17:35

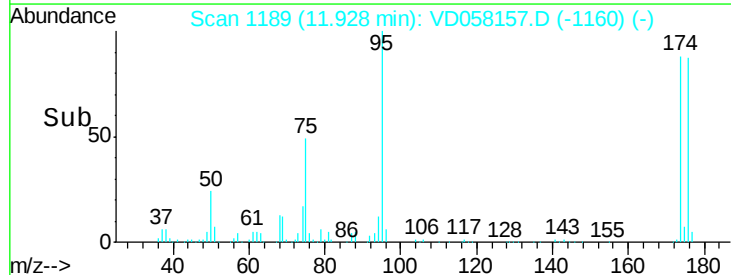
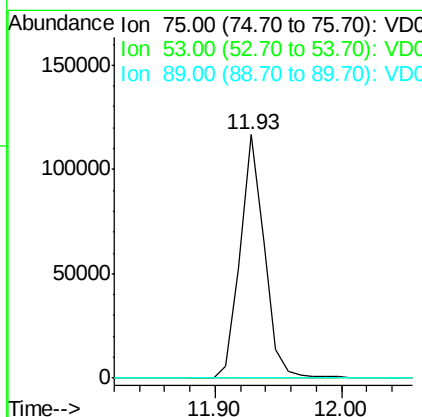
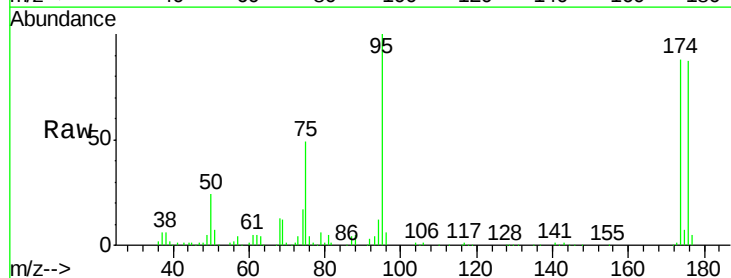
Instrument :
 MSVOA_D
 ClientSampleId :

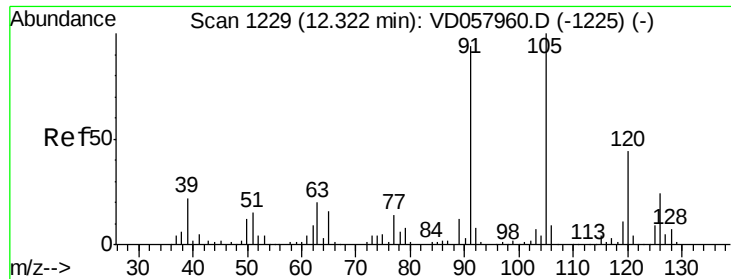
Tot Ion:105 Resp: 23369
 Ion Ratio Lower Upper
 105 100
 120 49.3 22.0 66.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 168.677 ug/l
 RT: 11.93 min Scan# 1189
 Delta R.T. 0.09 min
 Lab File: VD058157.D
 Acq: 15 Jun 2018 17:35

Tgt Ion: 75 Resp: 154705
 Ion Ratio Lower Upper
 75 100
 53 0.0 89.3 133.9#
 89 0.0 33.3 49.9#





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058157.D

Acq: 15 Jun 2018 17:35

Instrument :

MSVOA_D

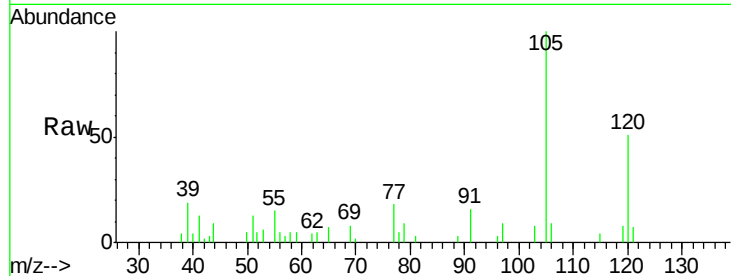
ClientSampleId :

Tot Ion: 91 Resp: 3955

Ion Ratio Lower Upper

91 100

126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

12.31

2000

1500

1000

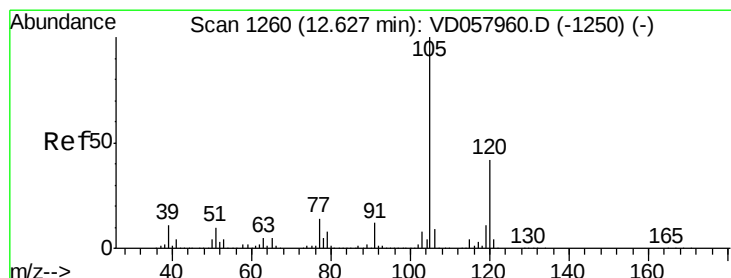
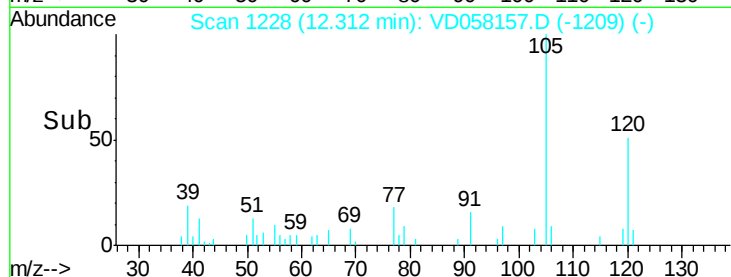
500

0

12.30

12.35

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 4.053 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD058157.D

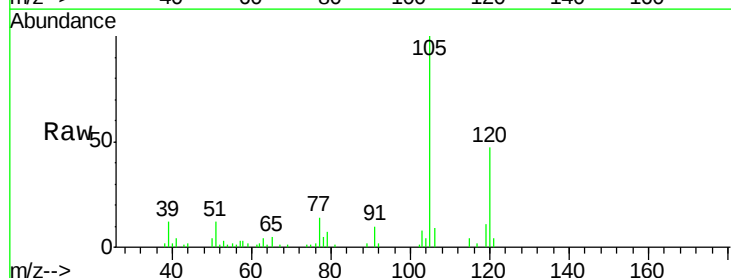
Acq: 15 Jun 2018 17:35

Tgt Ion:105 Resp: 55492

Ion Ratio Lower Upper

105 100

120 46.9 21.2 63.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.63

50000

40000

30000

20000

10000

0

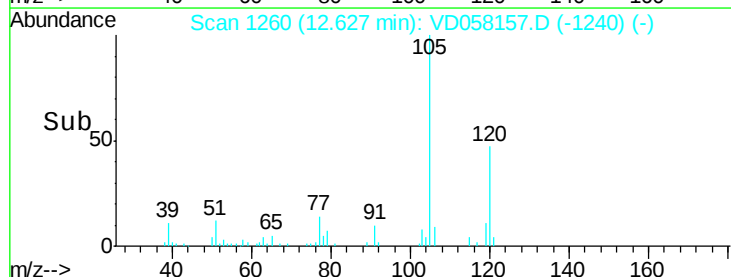
12.55

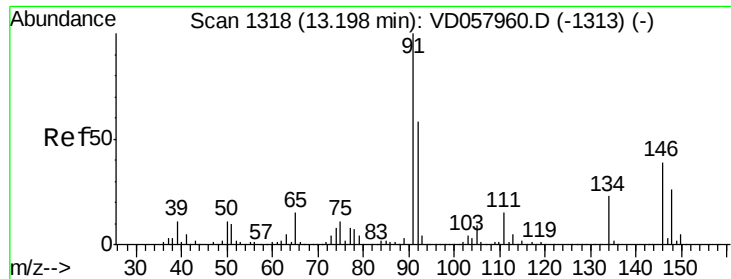
12.60

12.65

12.70

Time-->

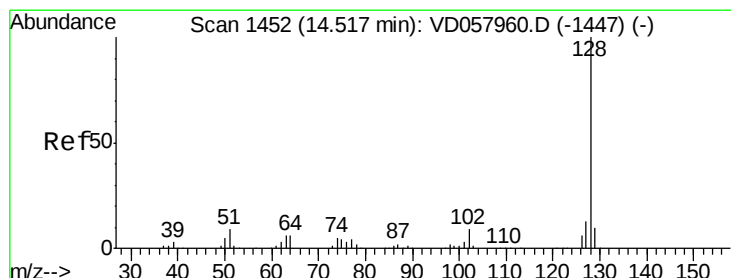
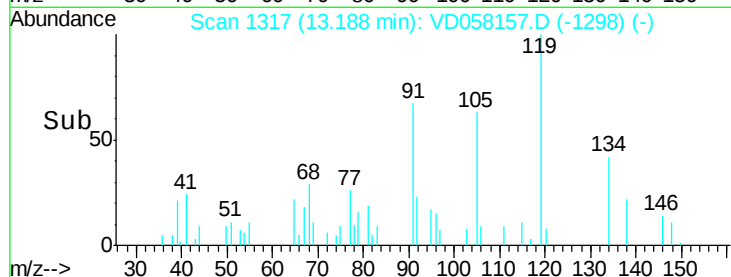
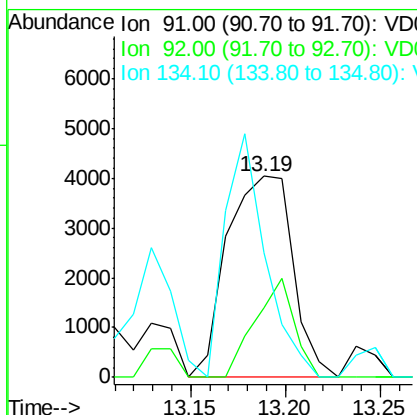
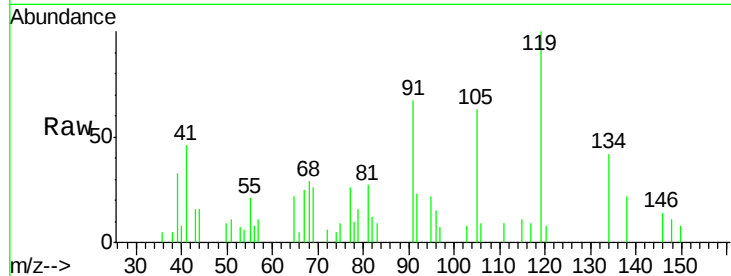




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 91 Resp: 9687
Ion Ratio Lower Upper
91 100
92 34.5 29.2 87.6
134 62.3 11.3 33.9#



#95
Naphthalene
Concen: 13.884 ug/l
RT: 14.52 min Scan# 1452
Delta R.T. 0.00 min
Lab File: VD058157.D
Acq: 15 Jun 2018 17:35

Tgt Ion:128 Resp: 110495
Ion Ratio Lower Upper
128 100
127 11.9 10.2 15.2
129 10.4 8.2 12.2

