

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058172.D
 Acq On : 16 Jun 2018 00:39
 Operator : VA/AP
 Sample : J3500-01RE
 Misc : 3.42g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 16 01:00:05 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	440617	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	534379	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.69	117	265304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	47652	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	296953	67.41	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	134.82%	
35) Dibromofluoromethane	5.55	113	319901	77.37	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	154.74%	
50) Toluene-d8	8.71	98	616214	62.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	125.38%	
62) 4-Bromofluorobenzene	11.93	95	106406	24.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	49.62%	

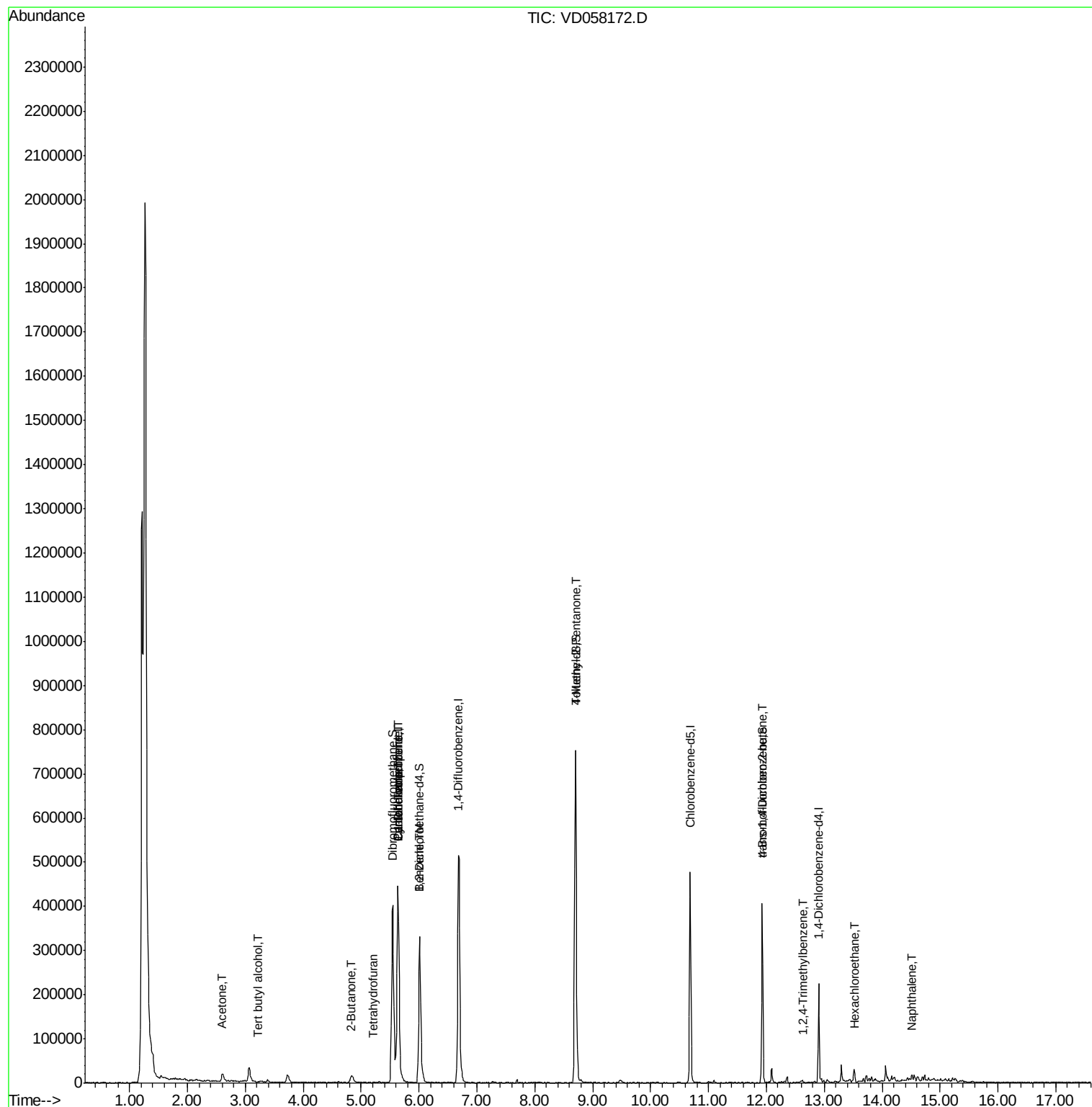
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.23	59	434	3.678	ug/l #	74
16) Acetone	2.60	43	39589	62.379	ug/l	93
25) 2-Butanone	4.84	43	3306	2.292	ug/l #	64
29) Tetrahydrofuran	5.19	42	800	1.058	ug/l #	39
31) Cyclohexane	5.63	56	11474	1.498	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	38363	6.516	ug/l #	49
38) Carbon Tetrachloride	5.64	117	36466	6.285	ug/l #	16
40) Benzene	6.01	78	30737	2.235	ug/l #	89
51) 4-Methyl-2-Pentanone	8.70	43	5005	1.854	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.93	75	49939	281.675	ug/l #	6
82) 4-Chlorotoluene	12.32	91	220	Below Cal	#	50
84) 1,2,4-Trimethylbenzene	12.63	105	3452	1.304	ug/l	93
89) n-Butylbenzene	13.19	91	565	Below Cal	#	30
90) Hexachloroethane	13.53	117	888	1.287	ug/l #	1
95) Naphthalene	14.52	128	8111	5.272	ug/l #	93

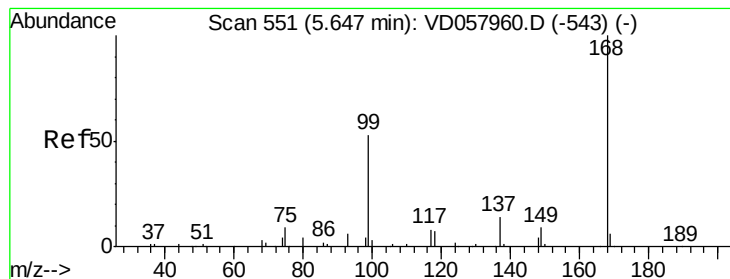
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD058172.D

Acq: 16 Jun 2018 00:39

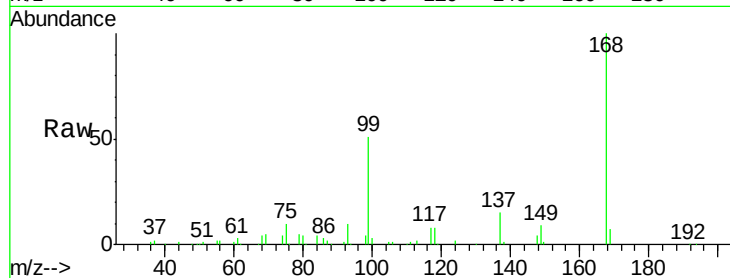
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 440617

Ion Ratio Lower Upper

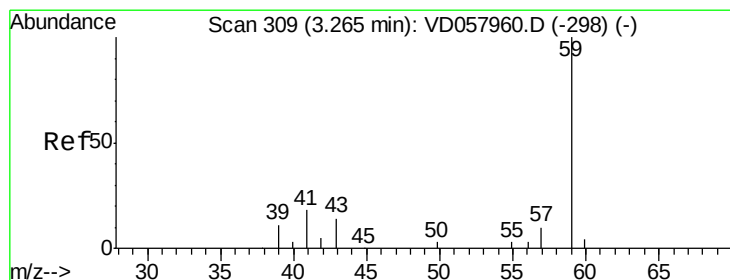
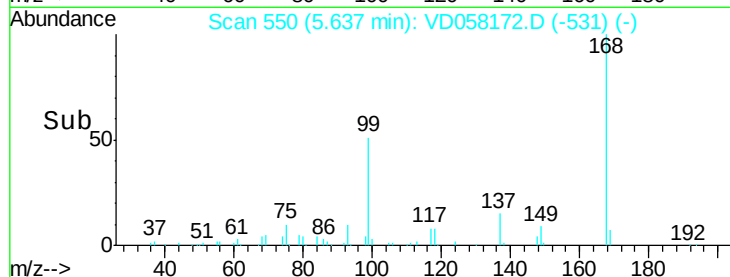
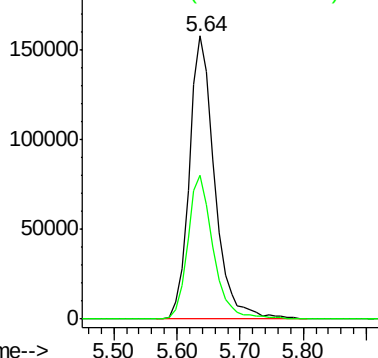
168 100

99 50.8 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 3.678 ug/l

RT: 3.23 min Scan# 305

Delta R.T. -0.04 min

Lab File: VD058172.D

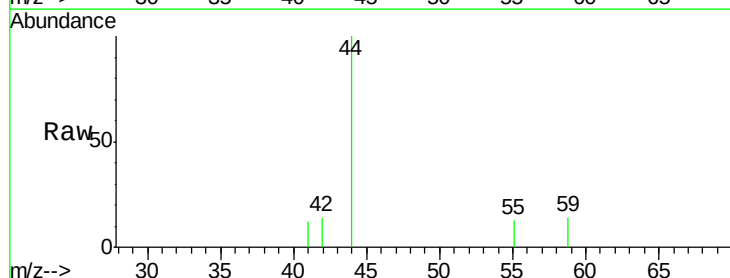
Acq: 16 Jun 2018 00:39

Tgt Ion: 59 Resp: 434

Ion Ratio Lower Upper

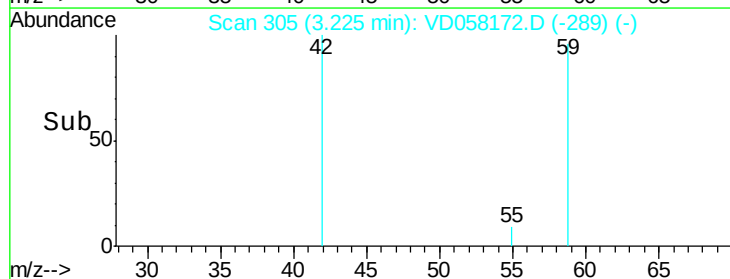
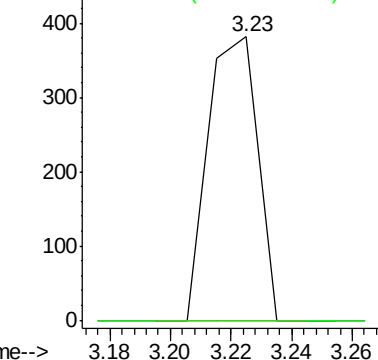
59 100

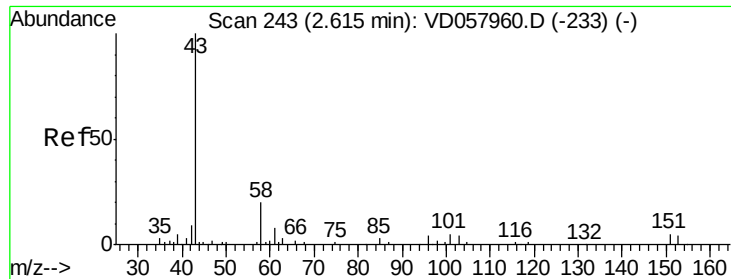
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 62.379 ug/l

RT: 2.60 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

Instrument :

MSVOA_D

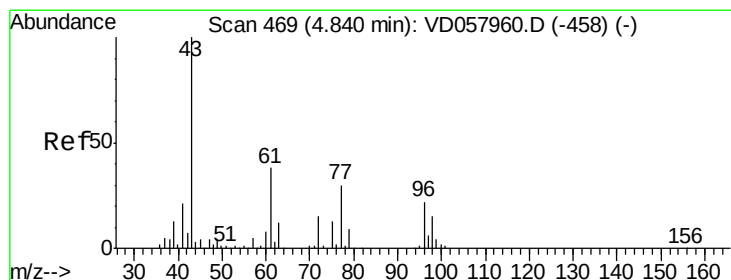
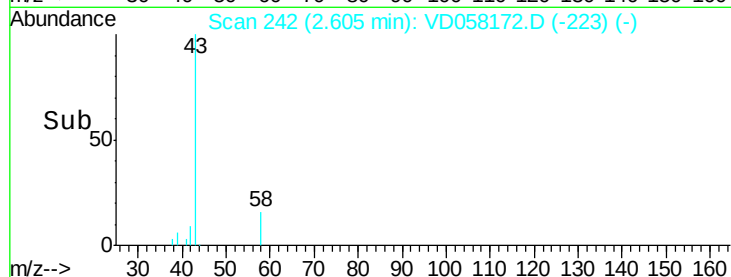
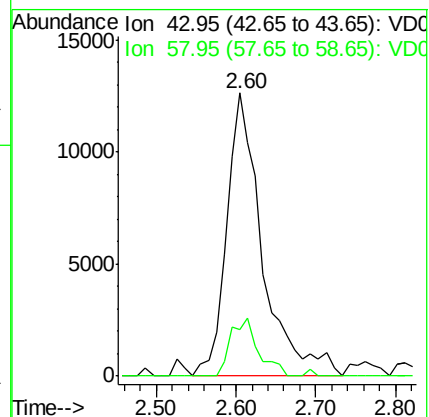
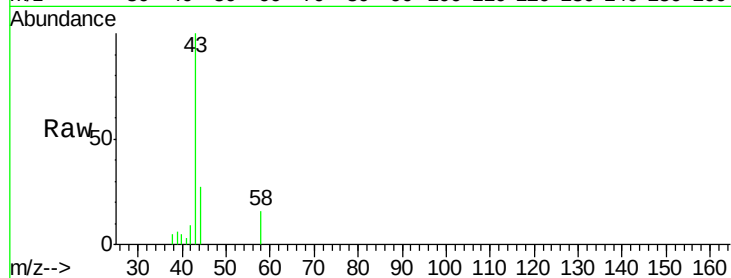
ClientSampleId :

Tot Ion: 43 Resp: 39589

Ion Ratio Lower Upper

43 100

58 16.5 15.8 23.8



#25

2-Butanone

Concen: 2.292 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD058172.D

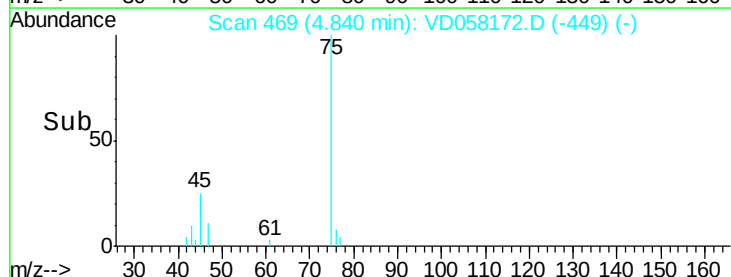
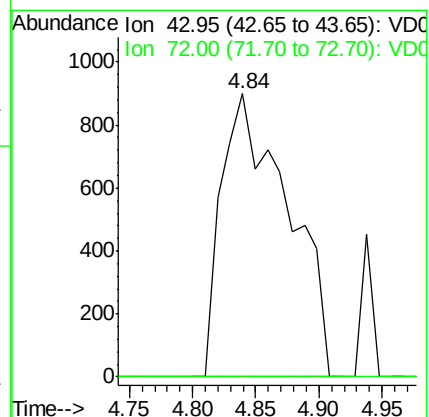
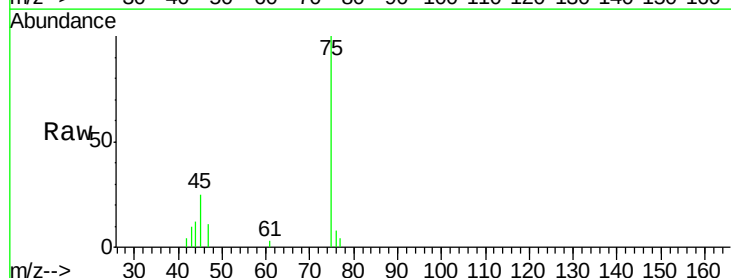
Acq: 16 Jun 2018 00:39

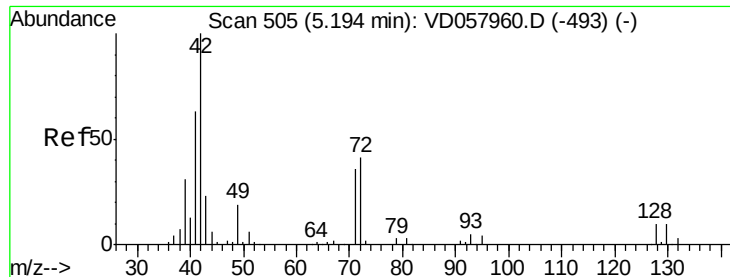
Tgt Ion: 43 Resp: 3306

Ion Ratio Lower Upper

43 100

72 0.0 12.0 18.0#

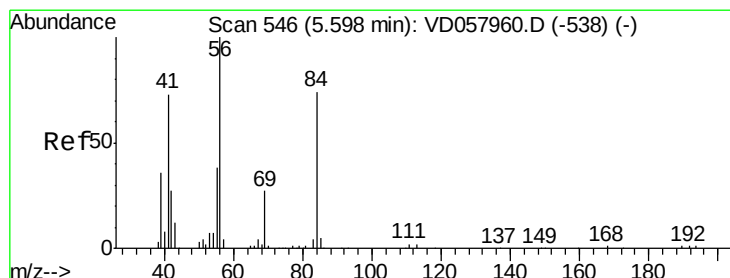
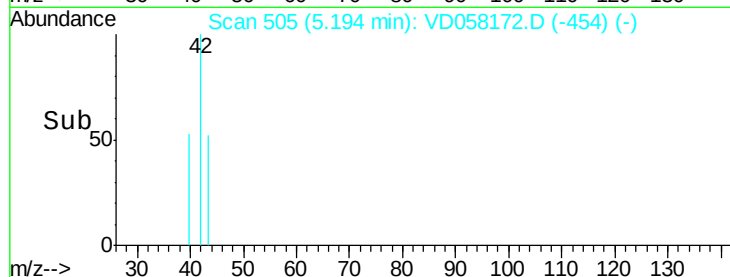
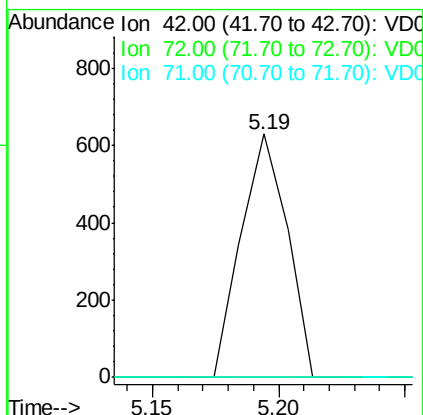
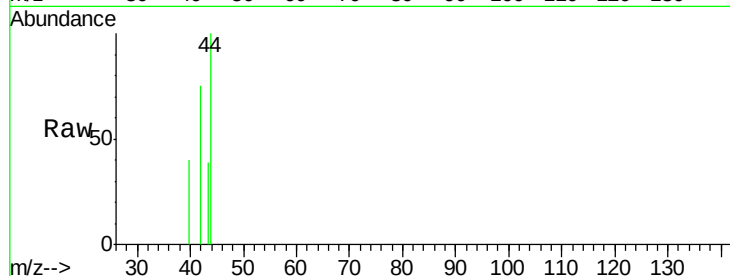




#29
Tetrahydrofuran
Concen: 1.058 ug/l
RT: 5.19 min Scan# 505
Delta R.T. -0.00 min
Lab File: VD058172.D
Acq: 16 Jun 2018 00:39

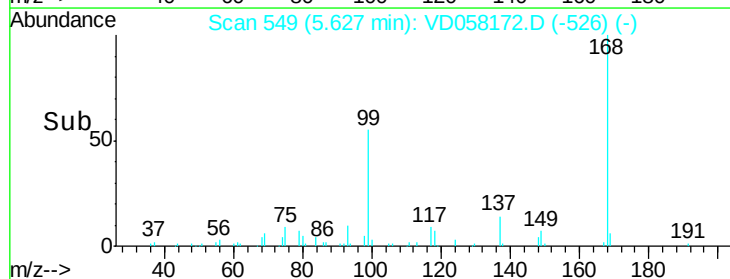
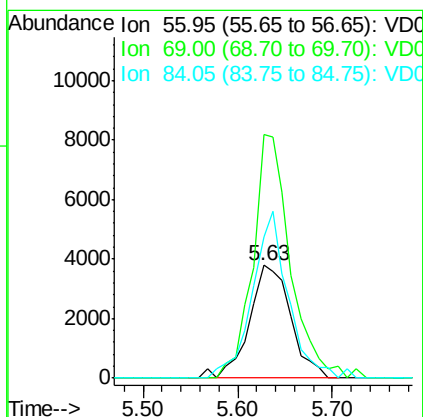
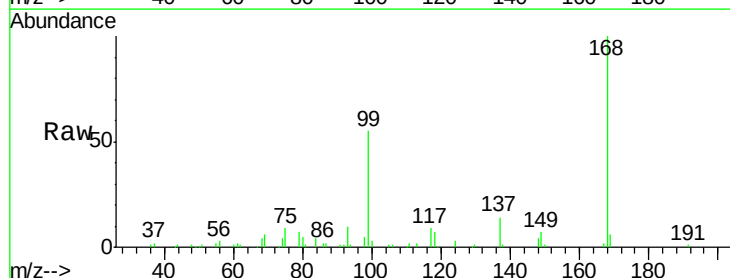
Instrument :
MSVOA_D
ClientSampleId :

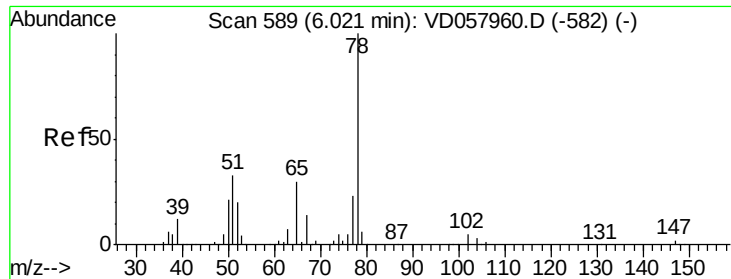
Tot Ion: 42 Resp: 800
Ion Ratio Lower Upper
42 100
72 0.0 28.5 42.7#
71 0.0 27.9 41.9#



#31
Cyclohexane
Concen: 1.498 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD058172.D
Acq: 16 Jun 2018 00:39

Tgt Ion: 56 Resp: 11474
Ion Ratio Lower Upper
56 100
69 216.1 21.5 32.3#
84 125.2 61.0 91.6#

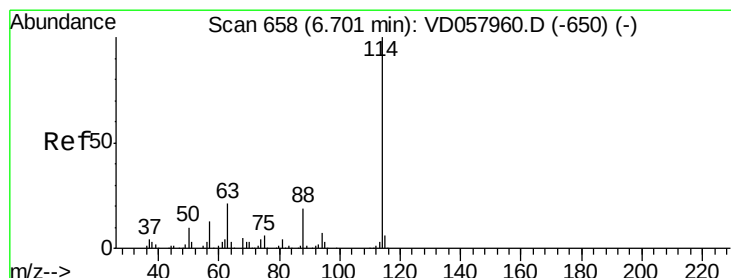
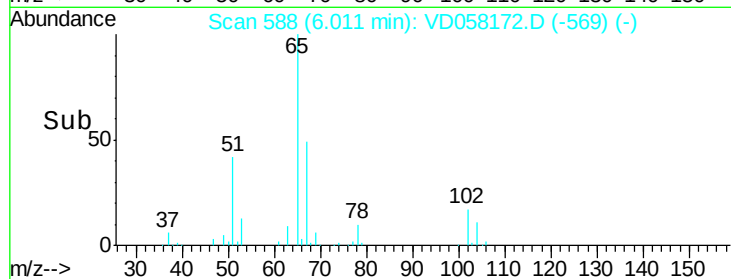
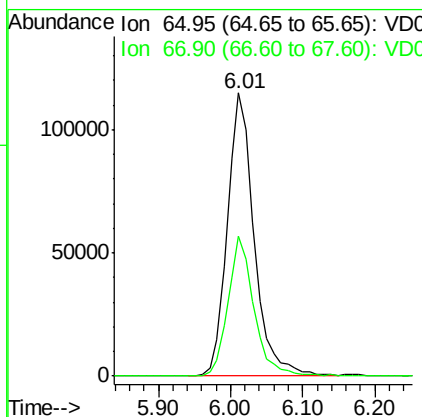
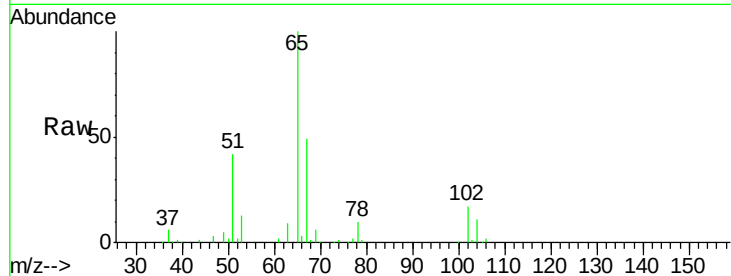




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. -0.01 min
 Lab File: VD058172.D
 Acq: 16 Jun 2018 00:39

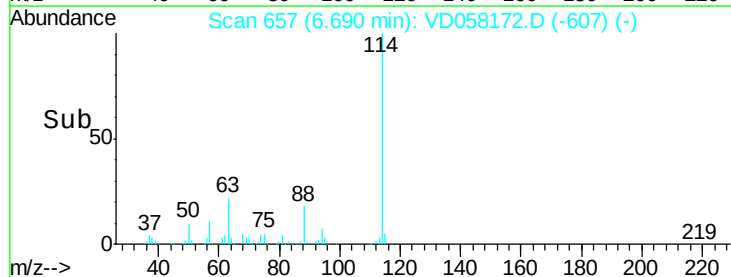
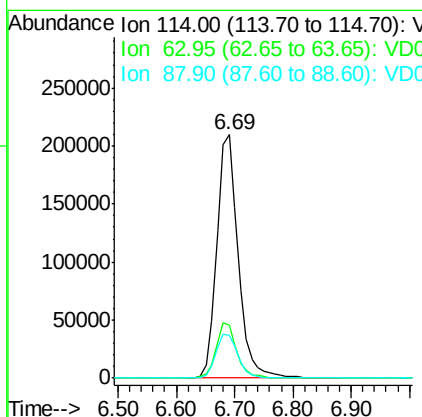
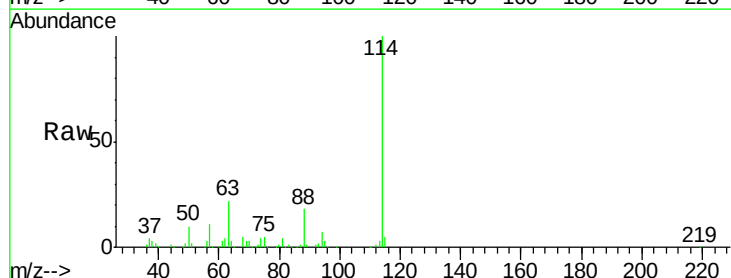
Instrument :
 MSVOA_D
 ClientSampleId :

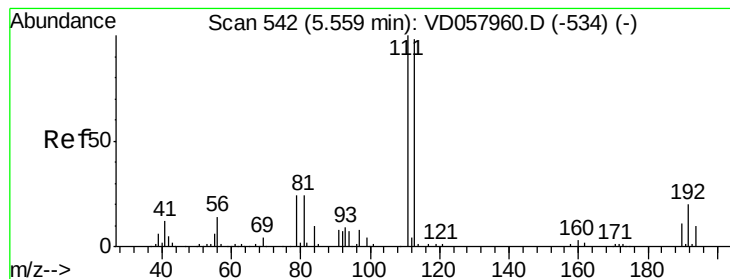
Tot Ion: 65 Resp: 296953
 Ion Ratio Lower Upper
 65 100
 67 49.3 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VD058172.D
 Acq: 16 Jun 2018 00:39

Tgt Ion: 114 Resp: 534379
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 42.8
 88 17.6 0.0 37.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

Instrument :

MSVOA_D

ClientSampleId :

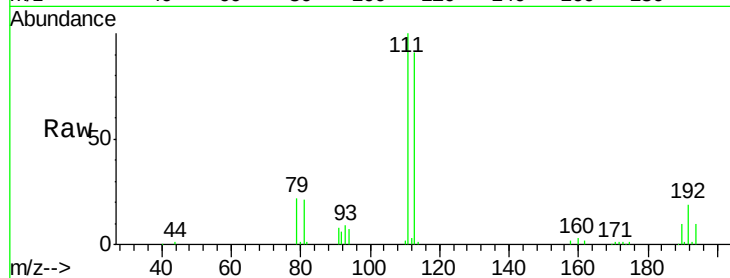
Tot Ion:113 Resp: 319901

Ion Ratio Lower Upper

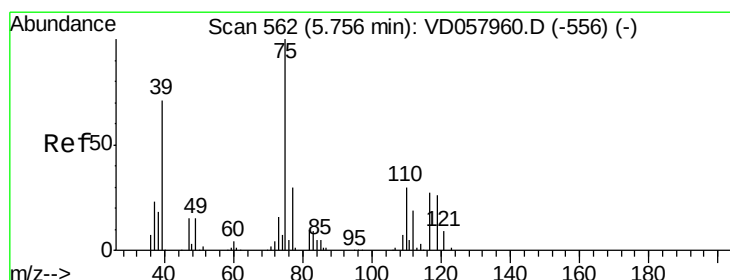
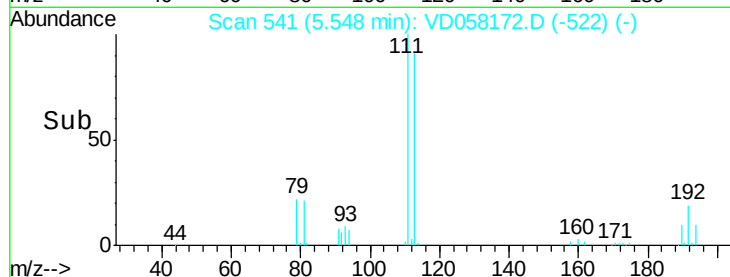
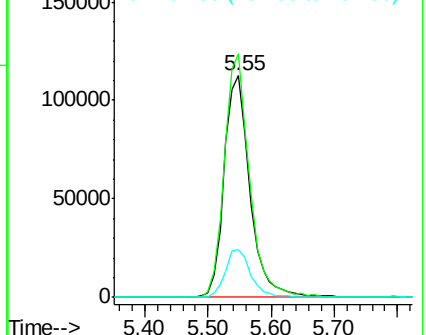
113 100

111 110.0 81.5 122.3

192 21.3 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: 6.516 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.12 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

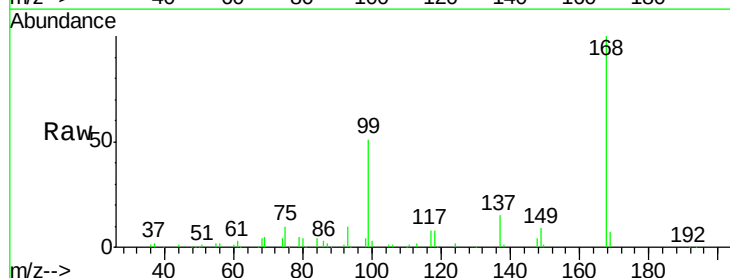
Tgt Ion: 75 Resp: 38363

Ion Ratio Lower Upper

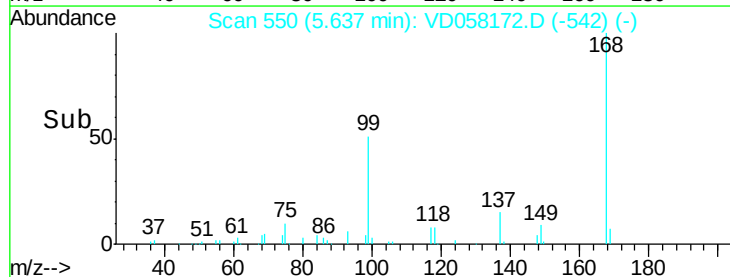
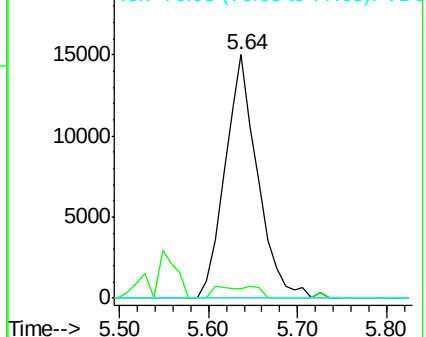
75 100

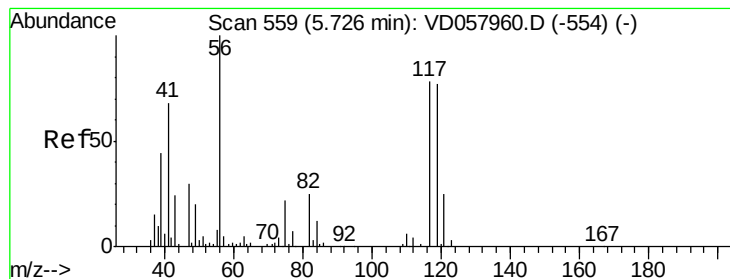
110 3.9 14.8 44.3#

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





#38

Carbon Tetrachloride

Concen: 6.285 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

Instrument :

MSVOA_D

ClientSampleId :

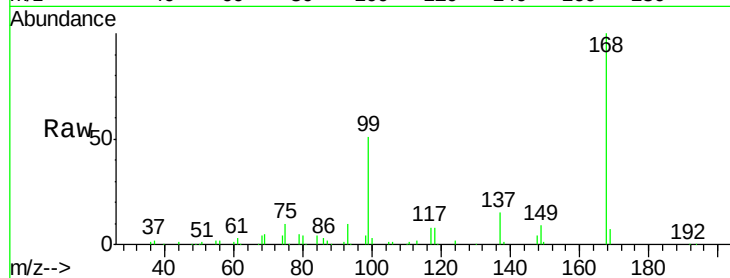
Tot Ion:117 Resp: 36466

Ion Ratio Lower Upper

117 100

119 5.2 76.1 114.1#

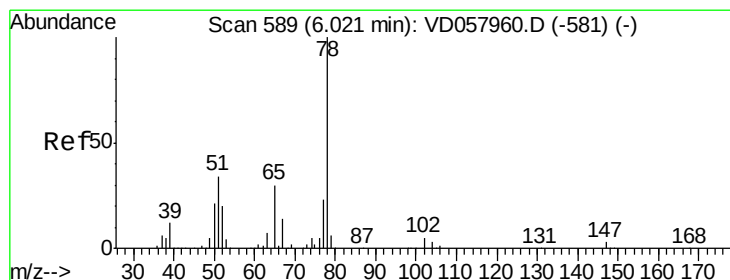
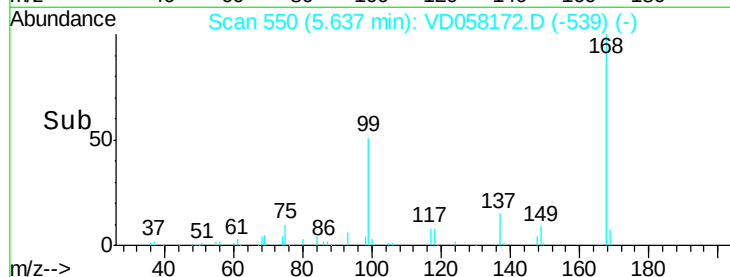
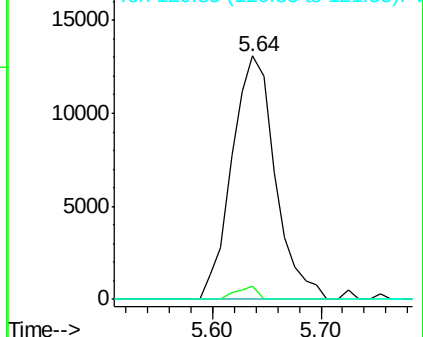
121 0.0 24.9 37.3#



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: 2.235 ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058172.D

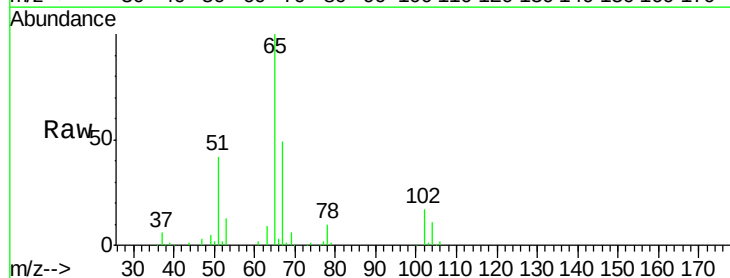
Acq: 16 Jun 2018 00:39

Tgt Ion: 78 Resp: 30737

Ion Ratio Lower Upper

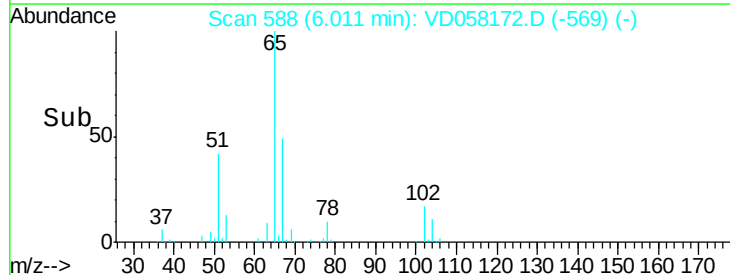
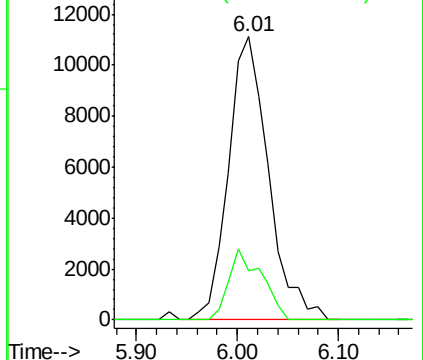
78 100

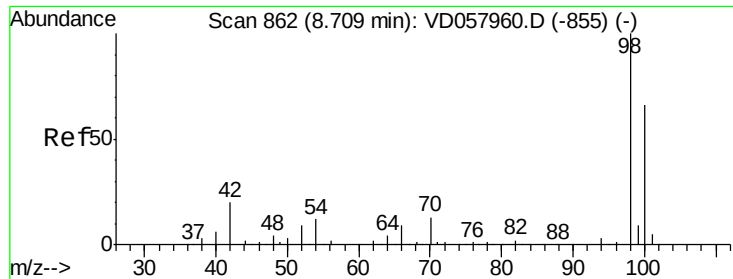
77 17.4 18.1 27.1#



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V

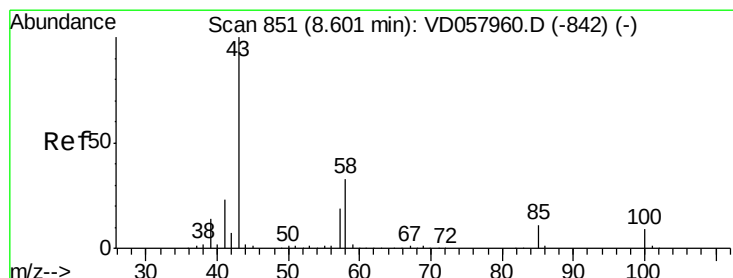
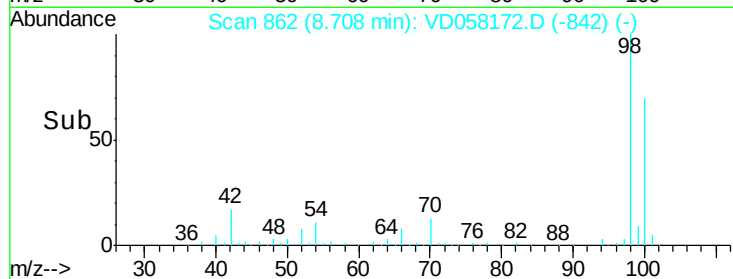
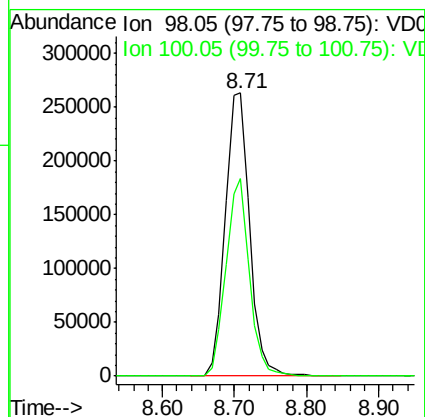
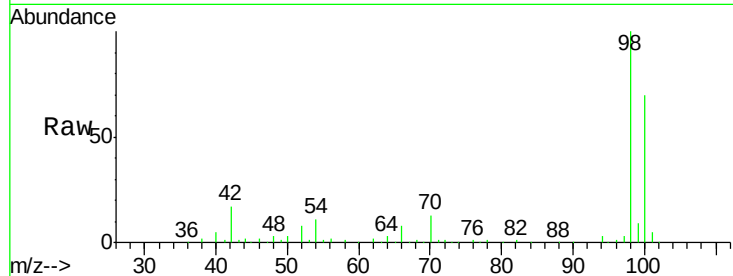




#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. -0.00 min
Lab File: VD058172.D
Acq: 16 Jun 2018 00:39

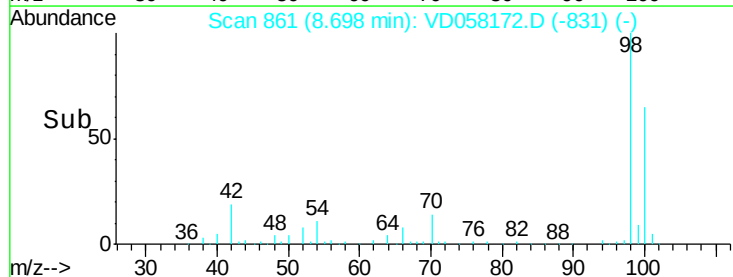
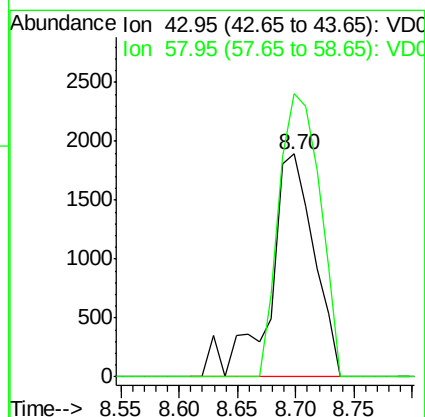
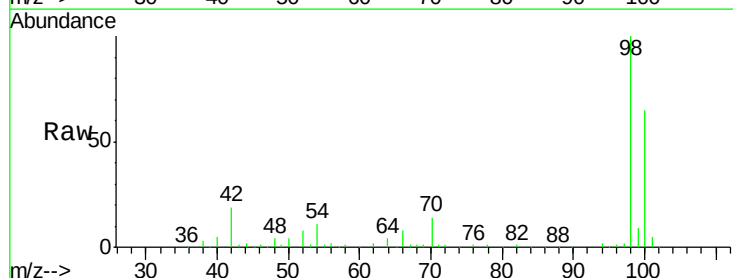
Instrument :
MSVOA_D
ClientSampleId :

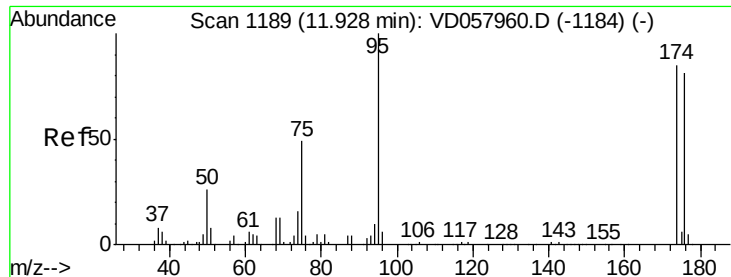
Tot Ion: 98 Resp: 616214
Ion Ratio Lower Upper
98 100
100 69.7 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 1.854 ug/l
RT: 8.70 min Scan# 861
Delta R.T. 0.10 min
Lab File: VD058172.D
Acq: 16 Jun 2018 00:39

Tgt Ion: 43 Resp: 5005
Ion Ratio Lower Upper
43 100
58 126.9 26.2 39.4#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

Instrument :

MSVOA_D

ClientSampleId :

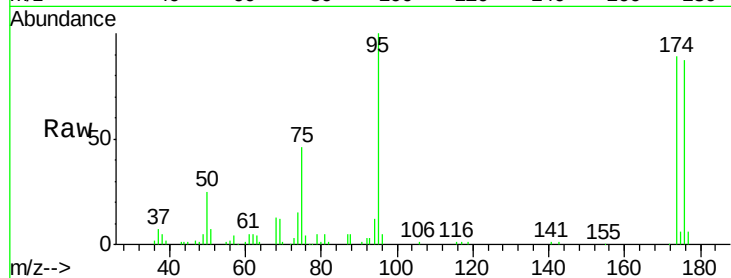
Tot Ion: 95 Resp: 106406

Ion Ratio Lower Upper

95 100

174 88.7 0.0 169.4

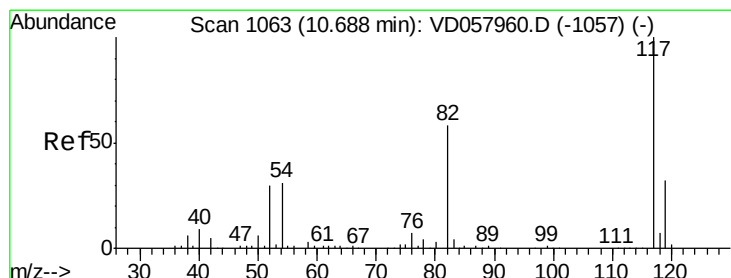
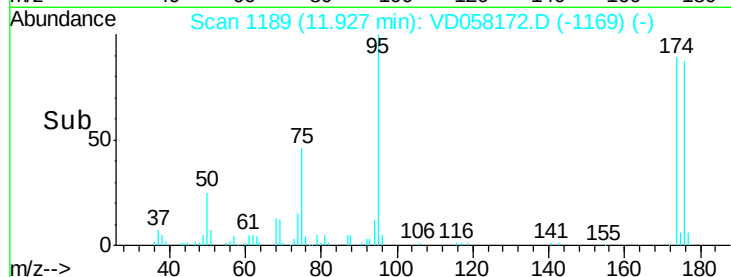
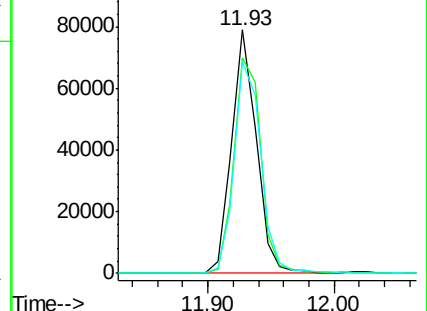
176 87.1 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

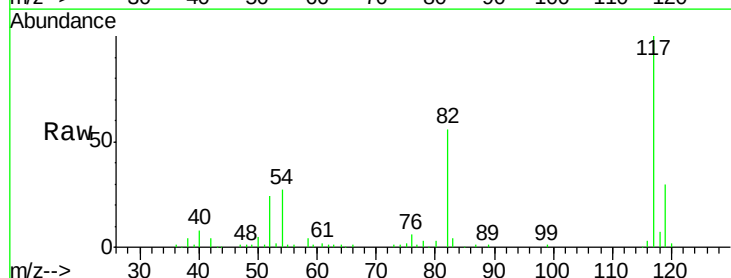
Tgt Ion: 117 Resp: 265304

Ion Ratio Lower Upper

117 100

82 56.1 46.8 70.2

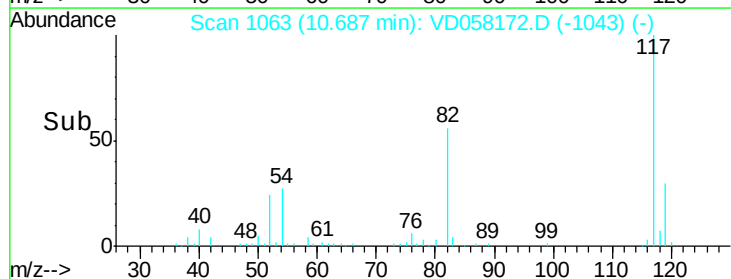
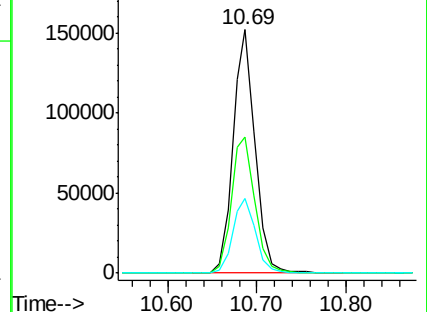
119 30.4 25.8 38.6

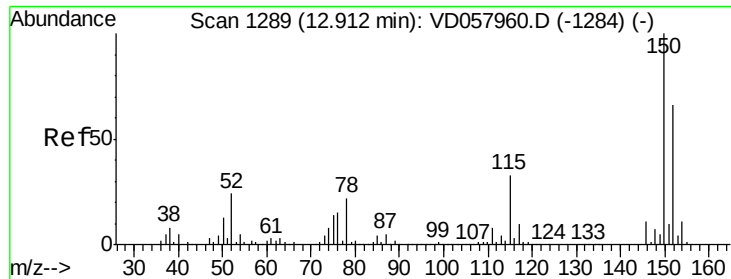


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



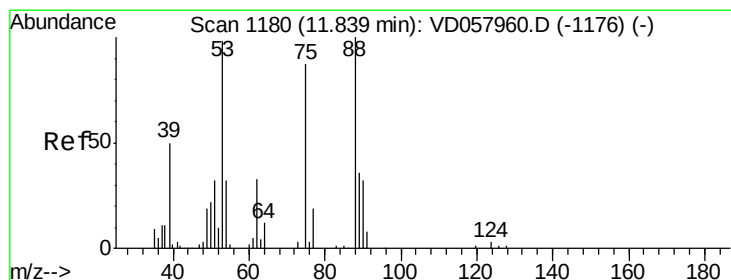
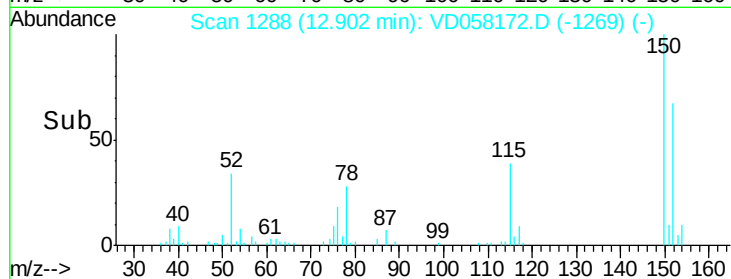
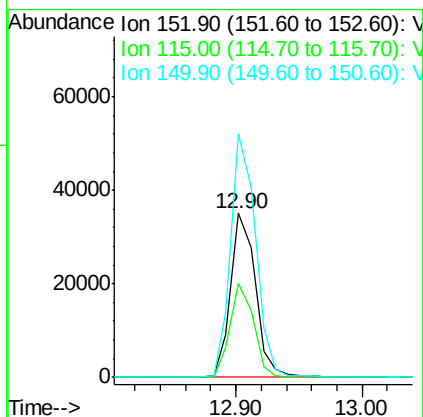
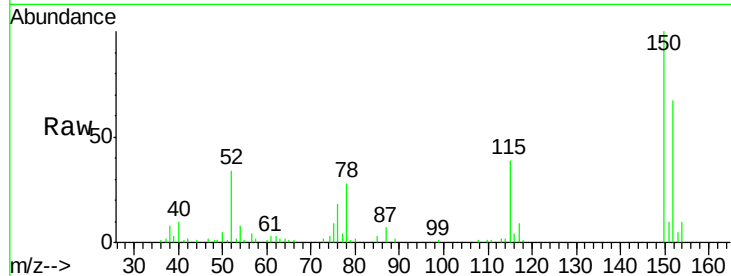


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058172.D
Acq: 16 Jun 2018 00:39

Instrument :
MSVOA_D
ClientSampleId :

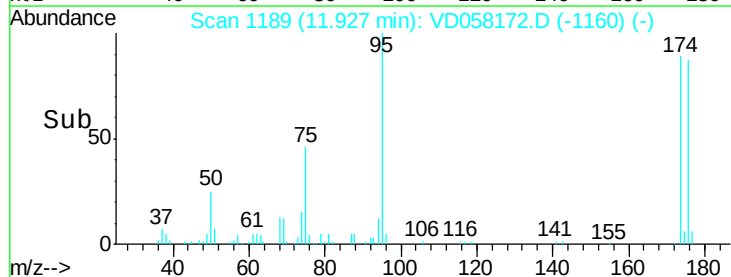
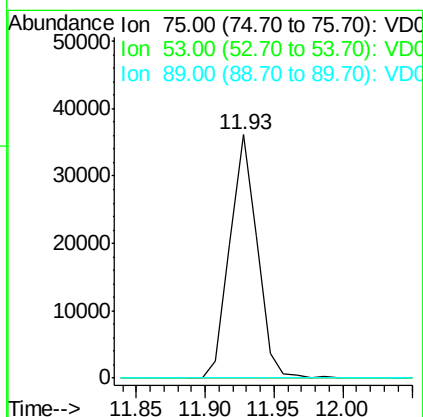
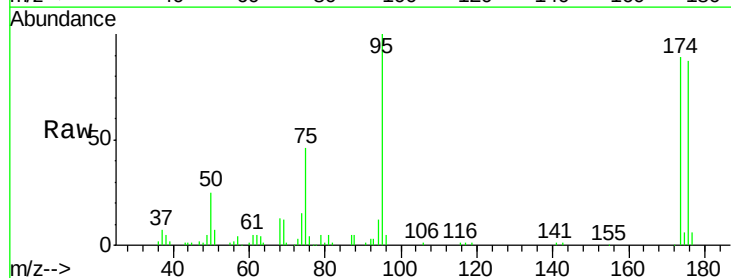
Tot Ion:152 Resp: 47652
Ion Ratio Lower Upper
152 100
115 57.4 25.6 76.6
150 148.7 0.0 306.8

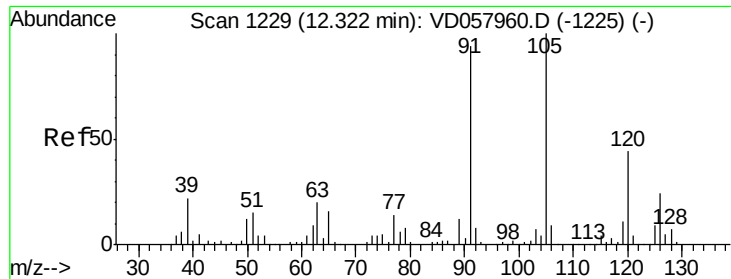


#81

trans-1,4-Dichloro-2-butene
Concen: 281.675 ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.09 min
Lab File: VD058172.D
Acq: 16 Jun 2018 00:39

Tgt Ion: 75 Resp: 49939
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: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

Instrument :

MSVOA_D

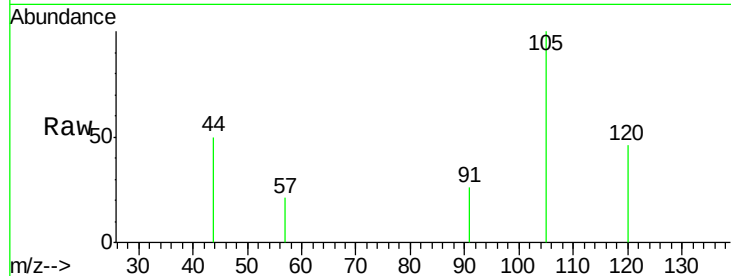
ClientSampled :

Tot Ion: 91 Resp: 220

Ion Ratio Lower Upper

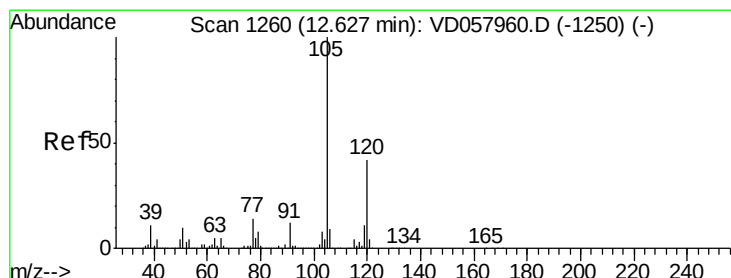
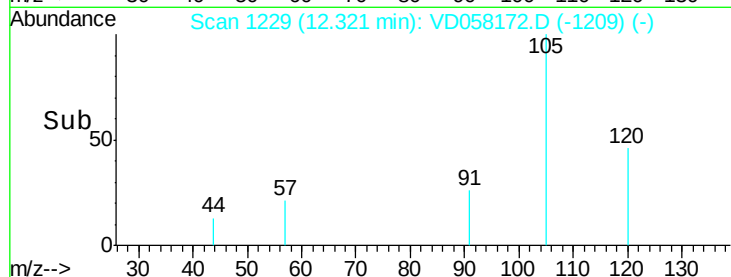
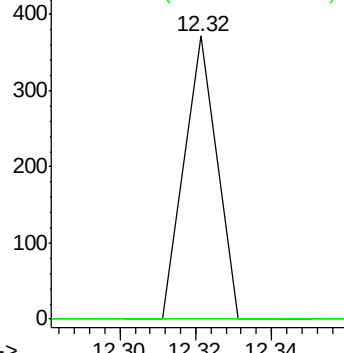
91 100

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



#84

1,2,4-Trimethylbenzene

Concen: 1.304 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD058172.D

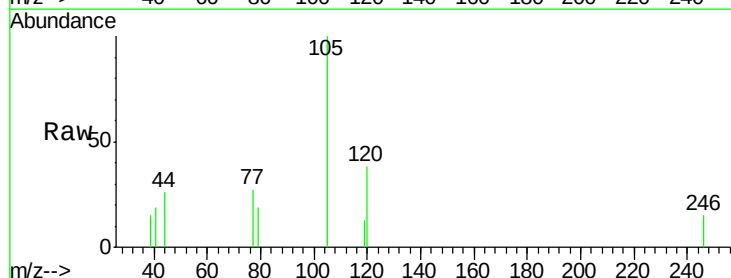
Acq: 16 Jun 2018 00:39

Tgt Ion:105 Resp: 3452

Ion Ratio Lower Upper

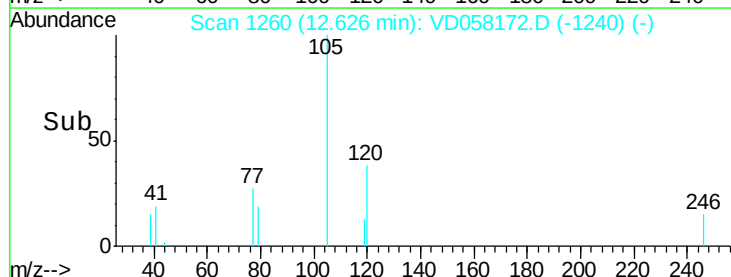
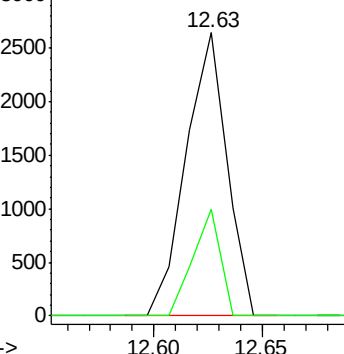
105 100

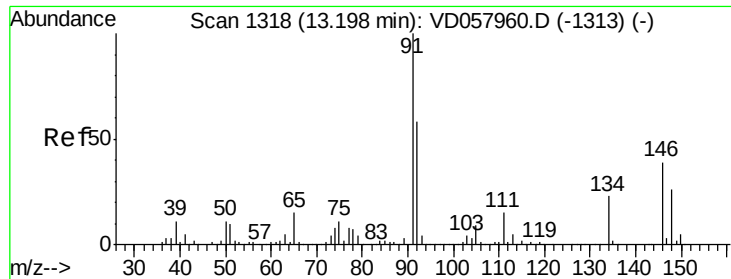
120 37.8 21.2 63.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#89

n-Butylbenzene

Concen: Below Cal

RT: 13.19 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VD058172.D

Acq: 16 Jun 2018 00:39

Instrument :

MSVOA_D

ClientSampleId :

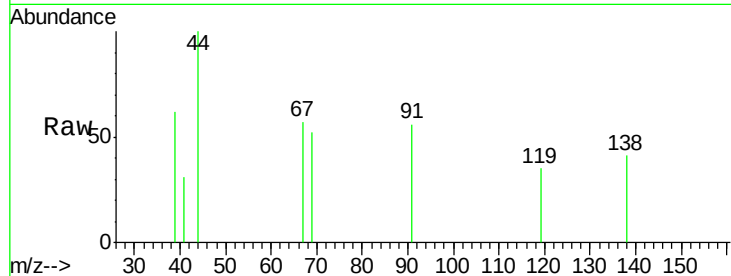
Tot Ion: 91 Resp: 565

Ion Ratio Lower Upper

91 100

92 0.0 29.2 87.6#

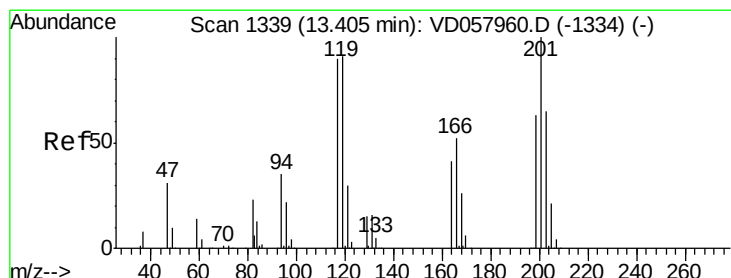
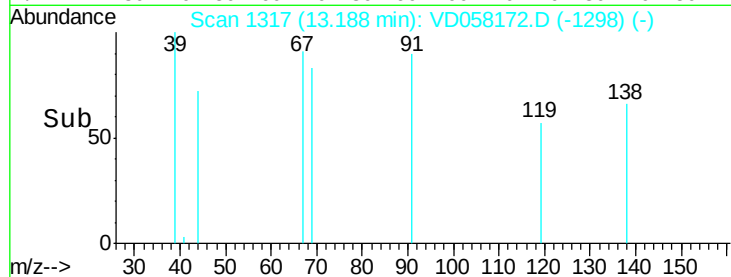
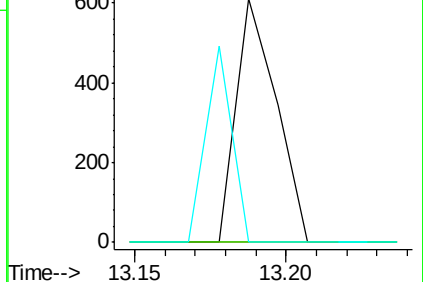
134 0.0 11.3 33.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 1.287 ug/l

RT: 13.53 min Scan# 1352

Delta R.T. 0.13 min

Lab File: VD058172.D

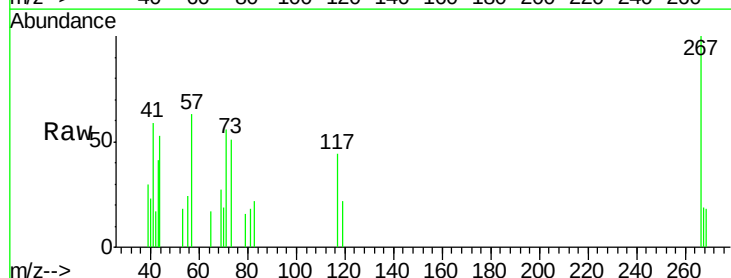
Acq: 16 Jun 2018 00:39

Tgt Ion: 117 Resp: 888

Ion Ratio Lower Upper

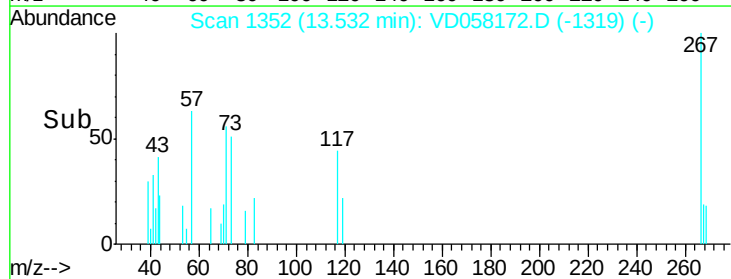
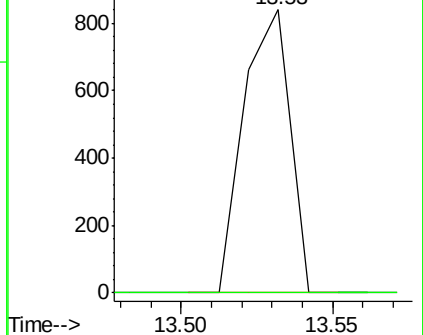
117 100

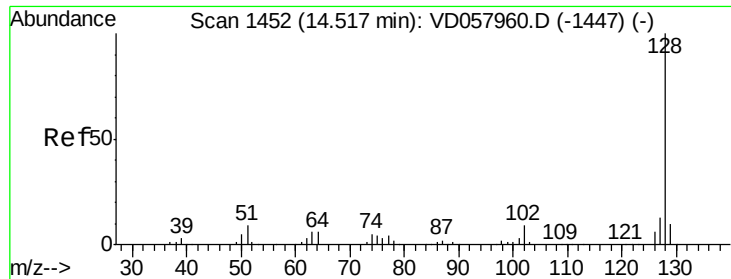
201 0.0 55.4 166.0#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

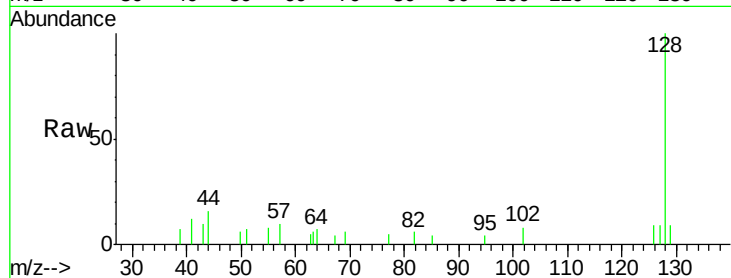




#95
Naphthalene
Concen: 5.272 ug/l
RT: 14.52 min Scan# 1452
Delta R.T. -0.00 min
Lab File: VD058172.D
Acq: 16 Jun 2018 00:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 8111
Ion Ratio Lower Upper
128 100
127 8.6 10.2 15.2#
129 9.4 8.2 12.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

