

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058173.D
 Acq On : 16 Jun 2018 1:07
 Operator : VA/AP
 Sample : J3500-02RE
 Misc : 5.53q/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 16 01:40:47 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	30022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	48901	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	49583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	32314	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	42320	141.00	ug/l	0.00
Spiked Amount			Recovery	=	282.00%	
35) Dibromofluoromethane	5.54	113	32136	84.94	ug/l	-0.02
Spiked Amount			Recovery	=	169.88%	
50) Toluene-d8	8.71	98	70149	77.98	ug/l	0.00
Spiked Amount			Recovery	=	155.96%	
62) 4-Bromofluorobenzene	11.93	95	33491	85.35	ug/l	0.00
Spiked Amount			Recovery	=	170.70%	

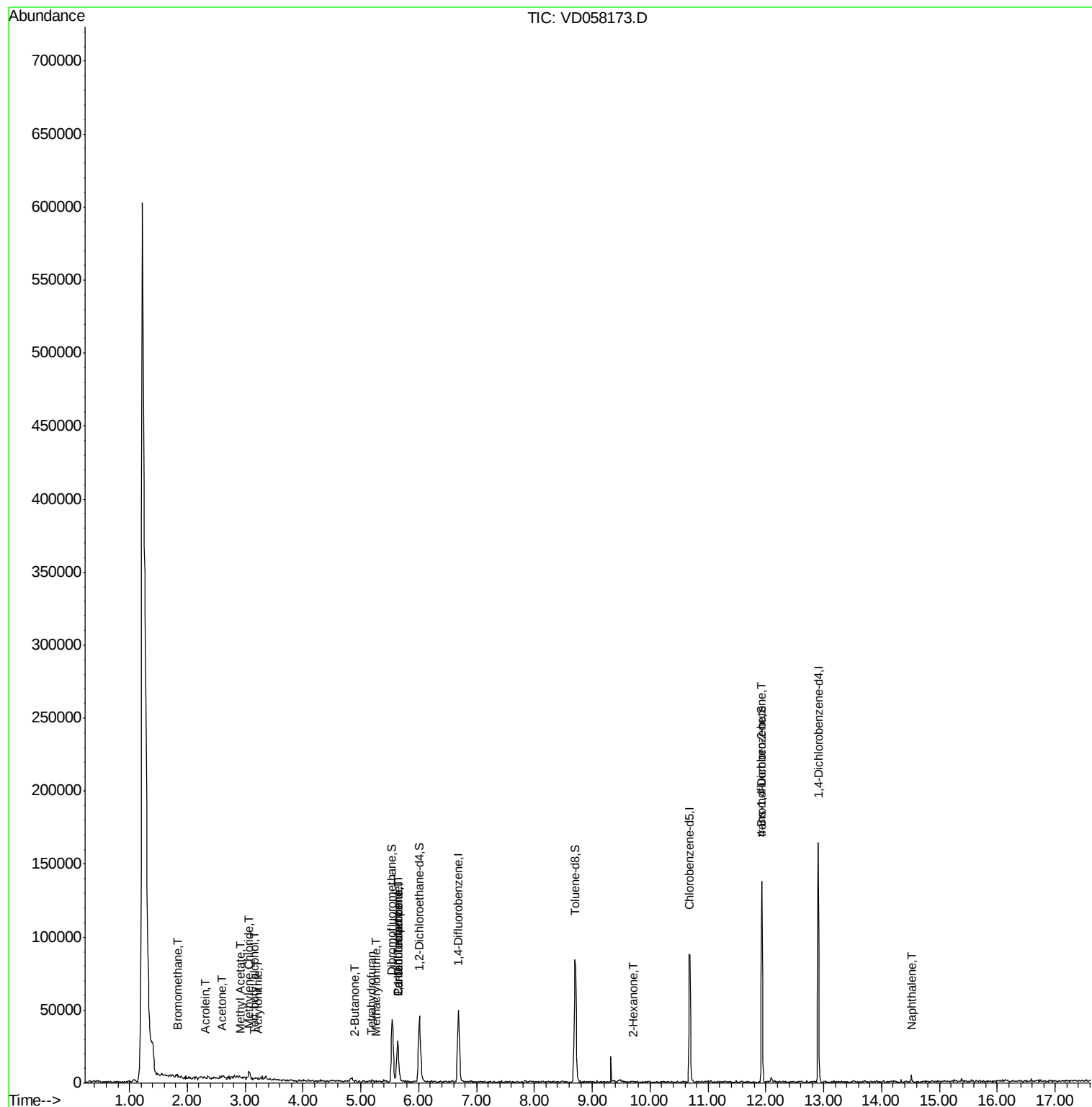
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.84	94	405	5.380	ug/l #	3
11) Tert butyl alcohol	3.15	59	212	26.367	ug/l #	74
13) Acrolein	2.31	56	181	15.719	ug/l #	16
15) Acrylonitrile	3.23	53	218	4.635	ug/l #	15
16) Acetone	2.60	43	4290	99.207	ug/l #	57
18) Methyl Acetate	2.93	43	260	3.108	ug/l #	66
20) Methylene Chloride	3.08	84	1681	10.105	ug/l #	57
25) 2-Butanone	4.90	43	198	2.015	ug/l #	64
29) Tetrahydrofuran	5.19	42	286	5.552	ug/l #	39
36) 1,1-Dichloropropene	5.63	75	2785	5.169	ug/l #	45
38) Carbon Tetrachloride	5.64	117	2598	4.893	ug/l #	12
41) Methacrylonitrile	5.26	41	180	1.339	ug/l #	32
59) 2-Hexanone	9.70	43	182	1.006	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.93	75	16874	140.351	ug/l #	6
82) 4-Chlorotoluene	12.32	91	187	Below Cal	#	50
95) Naphthalene	14.52	128	3166	3.035	ug/l #	70

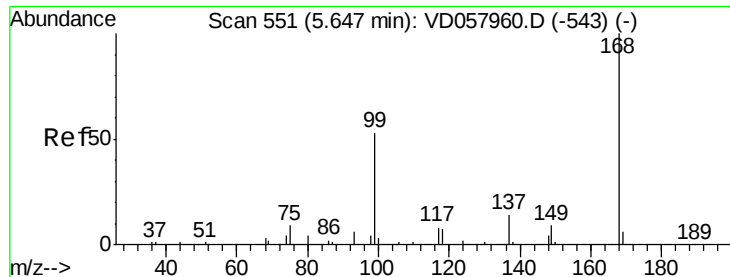
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD058173.D

Acq: 16 Jun 2018 1:07

Instrument :

MSVOA_D

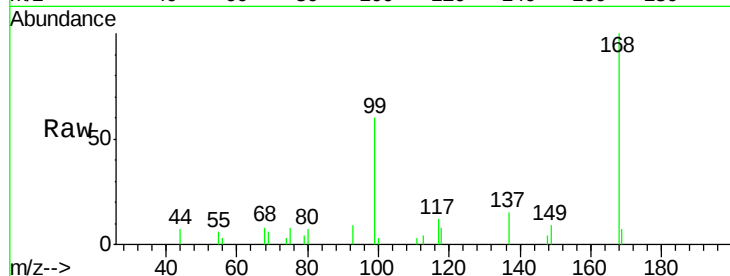
ClientSampleId :

Tot Ion:168 Resp: 30022

Ion Ratio Lower Upper

168 100

99 59.9 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

10000

8000

6000

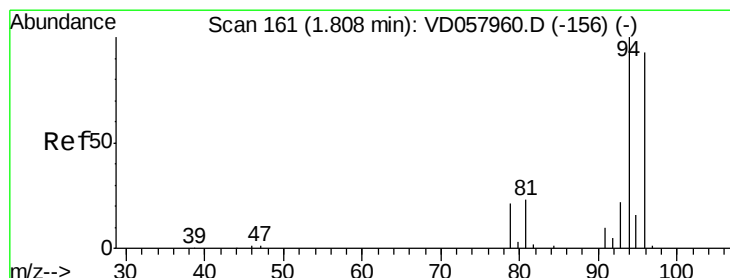
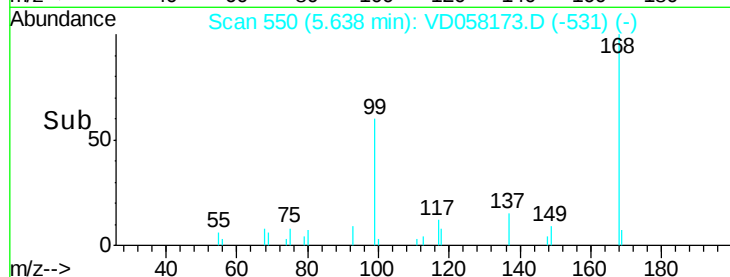
4000

2000

0

Time-->

5.60 5.70



#5

Bromomethane

Concen: 5.380 ug/l

RT: 1.84 min Scan# 164

Delta R.T. 0.03 min

Lab File: VD058173.D

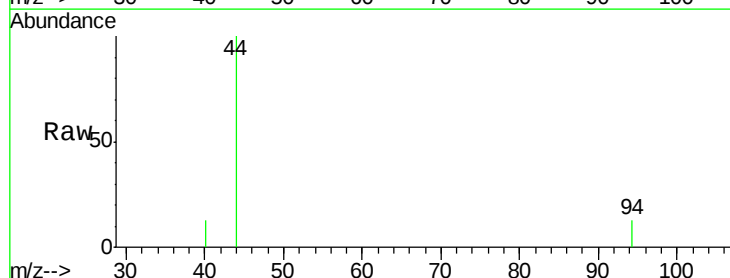
Acq: 16 Jun 2018 1:07

Tgt Ion: 94 Resp: 405

Ion Ratio Lower Upper

94 100

96 0.0 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.84

400

300

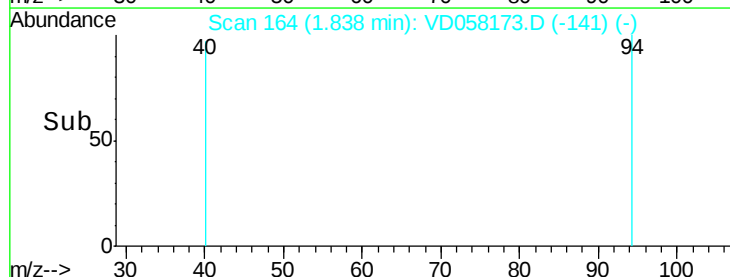
200

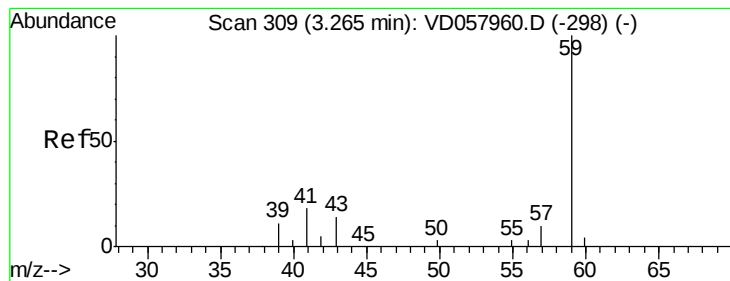
100

0

Time-->

1.80 1.82 1.84 1.86



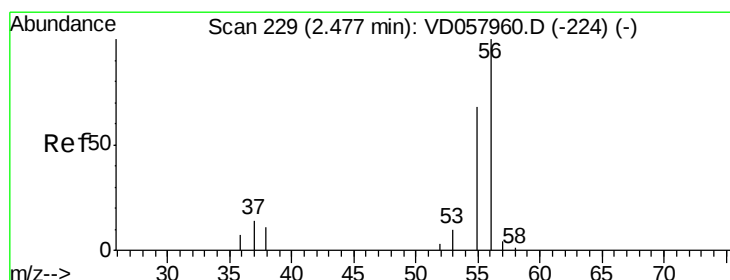
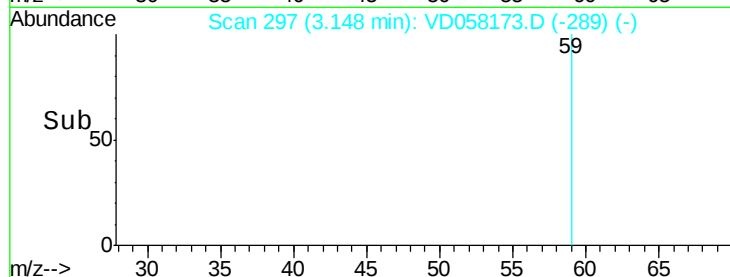
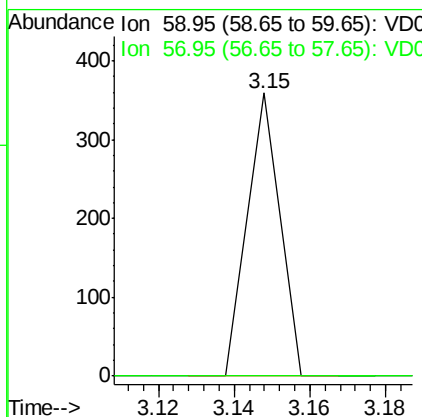
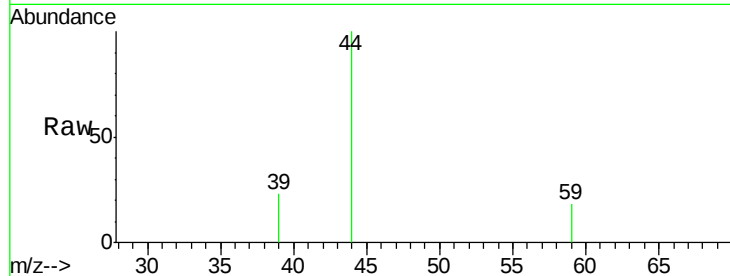


#11

Tert butyl alcohol
 Concen: 26.367 ug/l
 RT: 3.15 min Scan# 297
 Delta R.T. -0.12 min
 Lab File: VD058173.D
 Acq: 16 Jun 2018 1:07

Instrument :
 MSVOA_D
 ClientSampleId :

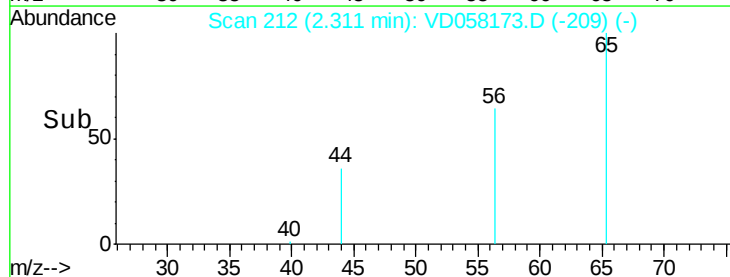
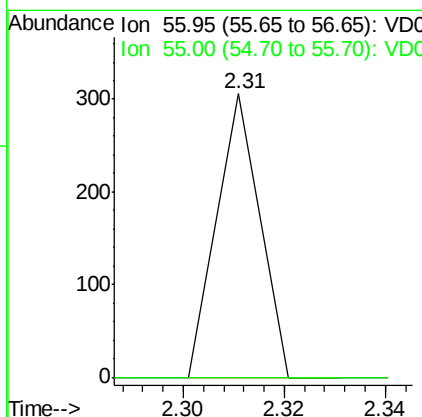
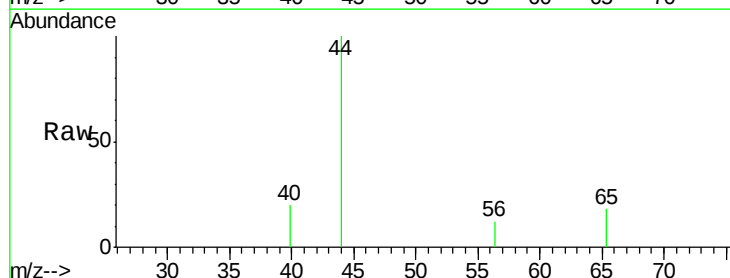
Tot Ion: 59 Resp: 212
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

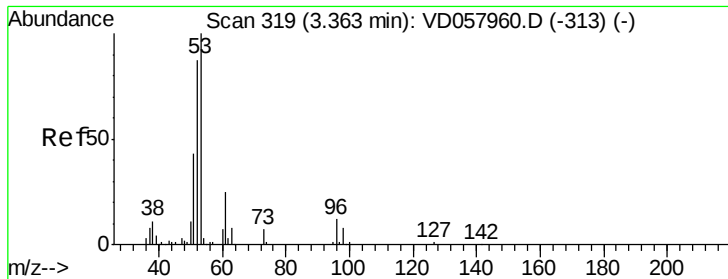


#13

Acrolein
 Concen: 15.719 ug/l
 RT: 2.31 min Scan# 212
 Delta R.T. -0.17 min
 Lab File: VD058173.D
 Acq: 16 Jun 2018 1:07

Tgt Ion: 56 Resp: 181
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.0 81.0#





#15

Acrylonitrile

Concen: 4.635 ug/l

RT: 3.23 min Scan# 305

Delta R.T. -0.14 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

Instrument :

MSVOA_D

ClientSampleId :

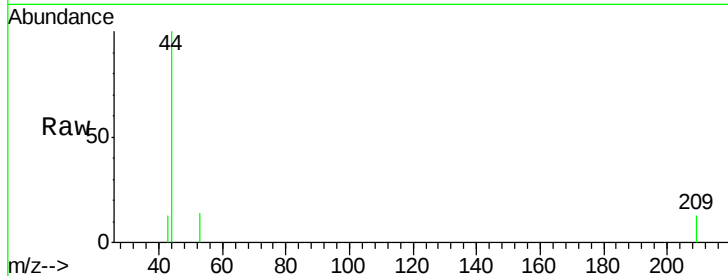
Tot Ion: 53 Resp: 218

Ion Ratio Lower Upper

53 100

52 0.0 69.9 104.9#

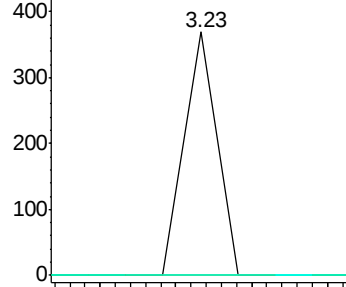
51 0.0 34.3 51.5#



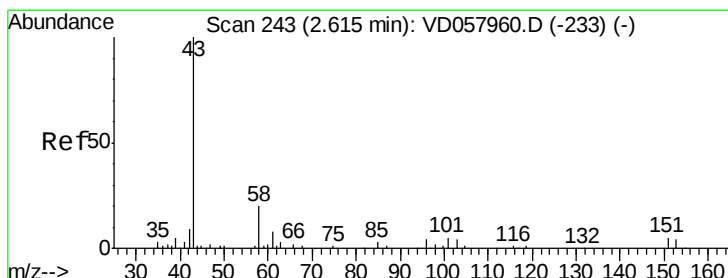
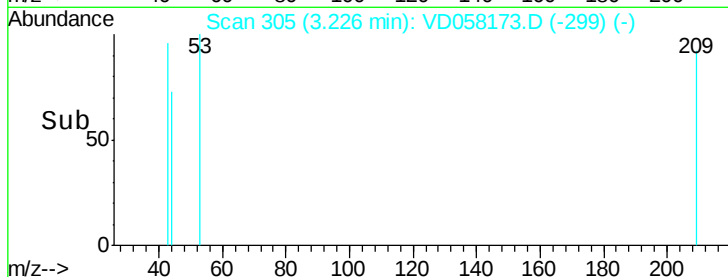
Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



Time-->



#16

Acetone

Concen: 99.207 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.02 min

Lab File: VD058173.D

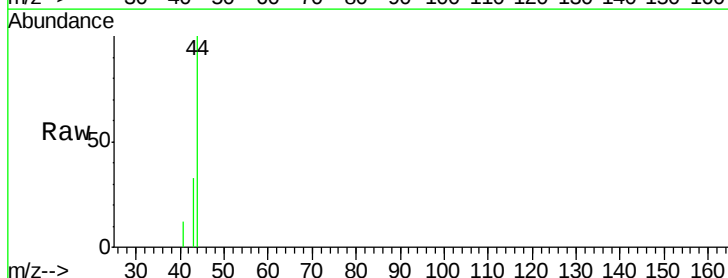
Acq: 16 Jun 2018 1:07

Tgt Ion: 43 Resp: 4290

Ion Ratio Lower Upper

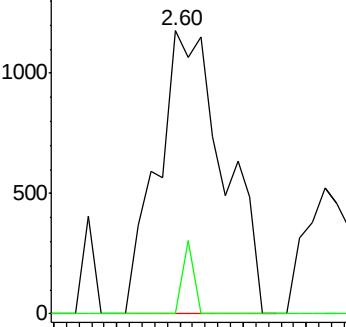
43 100

58 0.0 15.8 23.8#

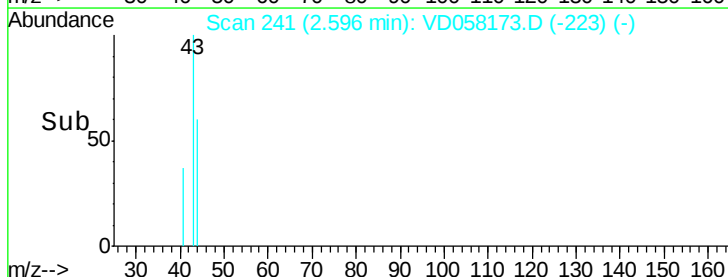


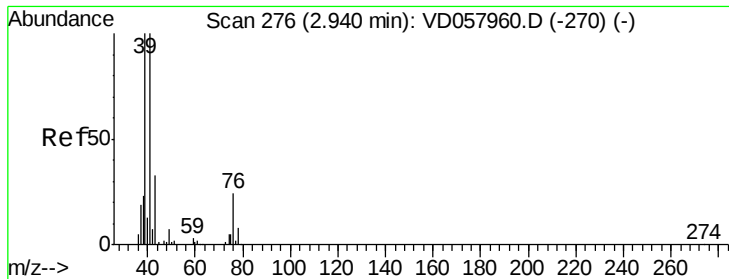
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->

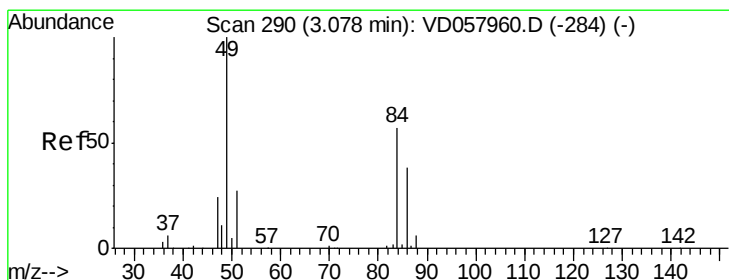
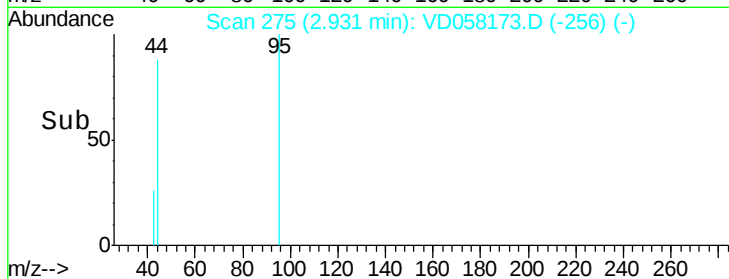
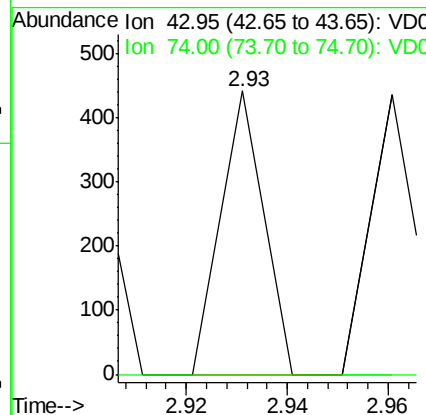
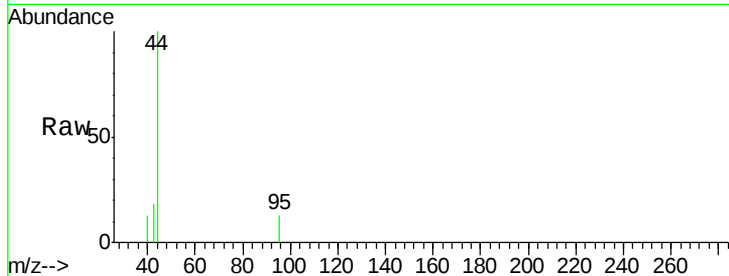




#18
Methvl Acetate
Concen: 3.108 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.01 min
Lab File: VD058173.D
Acq: 16 Jun 2018 1:07

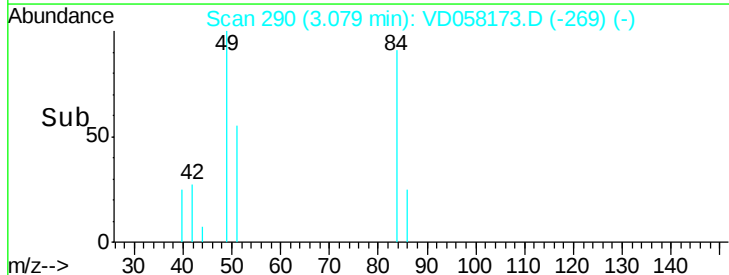
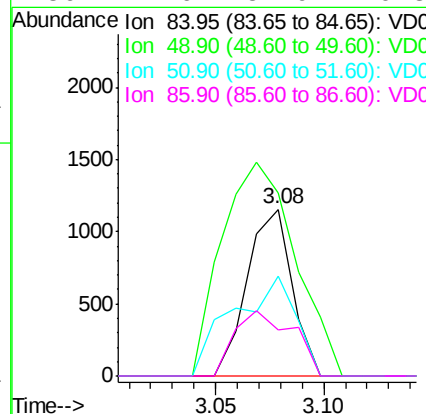
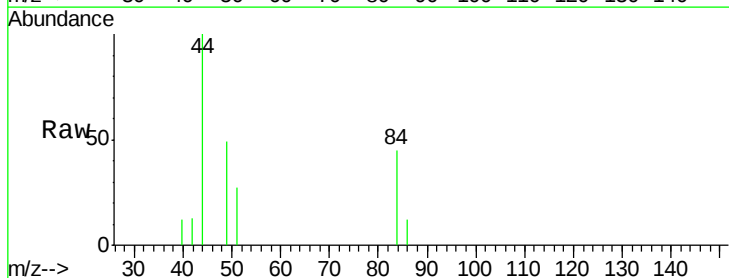
Instrument :
MSVOA_D
ClientSampled :

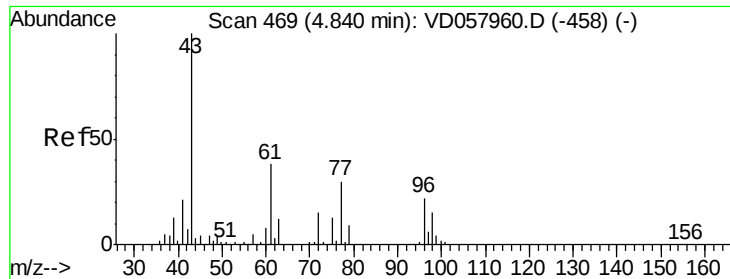
Tot Ion: 43 Resp: 260
Ion Ratio Lower Upper
43 100
74 0.0 11.2 16.8#



#20
Methylene Chloride
Concen: 10.105 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.00 min
Lab File: VD058173.D
Acq: 16 Jun 2018 1:07

Tgt Ion: 84 Resp: 1681
Ion Ratio Lower Upper
84 100
49 109.7 141.4 212.0#
51 60.1 38.3 57.5#
86 27.6 52.9 79.3#





#25

2-Butanone

Concen: 2.015 ug/l

RT: 4.90 min Scan# 475

Delta R.T. 0.06 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

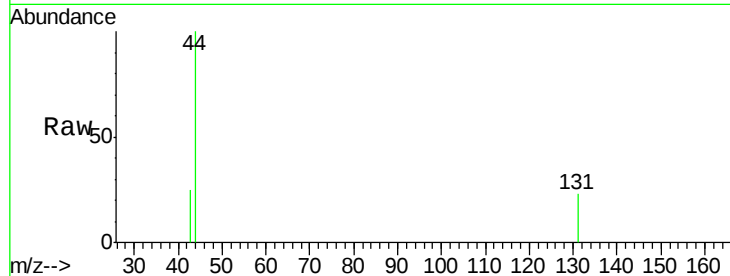
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 198

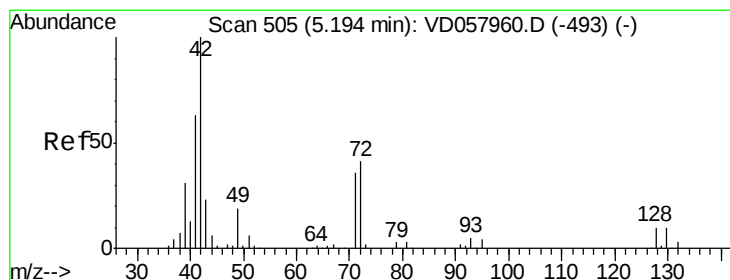
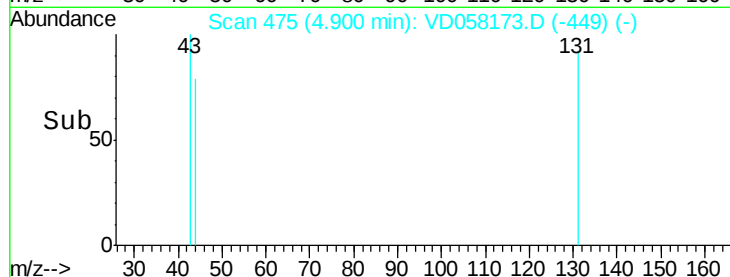
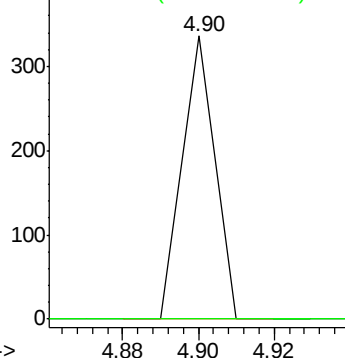
Ion Ratio Lower Upper

43 100

72 0.0 12.0 18.0#



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



#29

Tetrahydrofuran

Concen: 5.552 ug/l

RT: 5.19 min Scan# 504

Delta R.T. -0.01 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

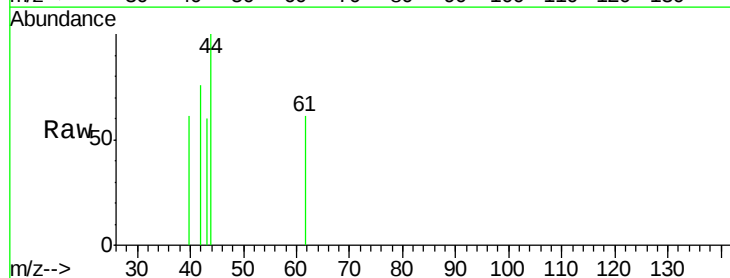
Tgt Ion: 42 Resp: 286

Ion Ratio Lower Upper

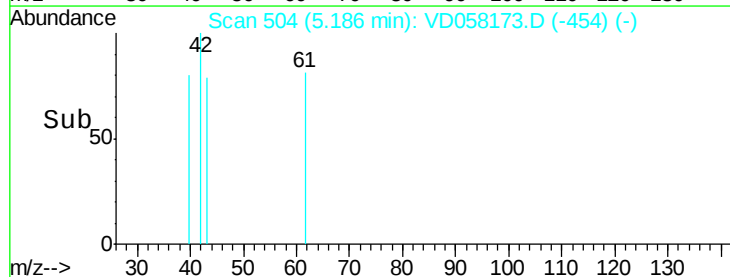
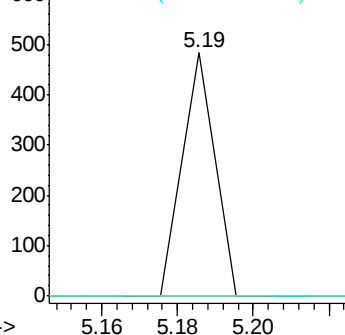
42 100

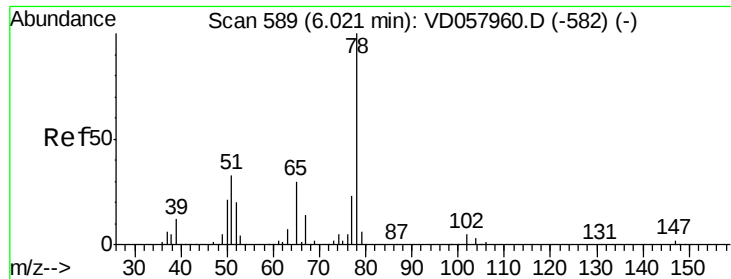
72 0.0 28.5 42.7#

71 0.0 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

Instrument :

MSVOA_D

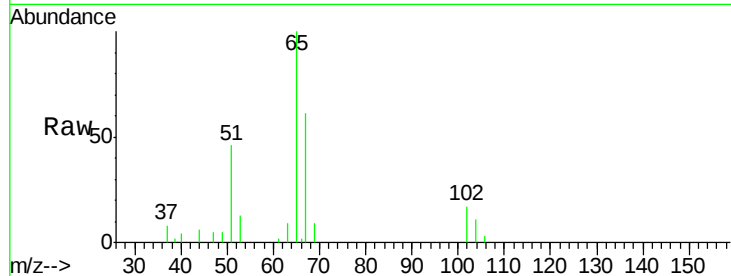
ClientSampleId :

Tot Ion: 65 Resp: 42320

Ion Ratio Lower Upper

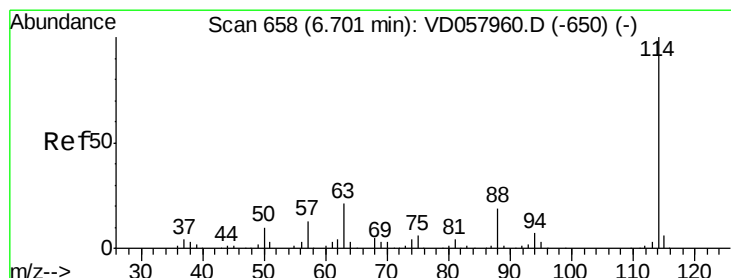
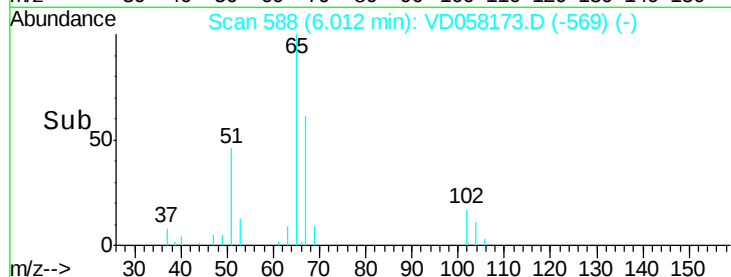
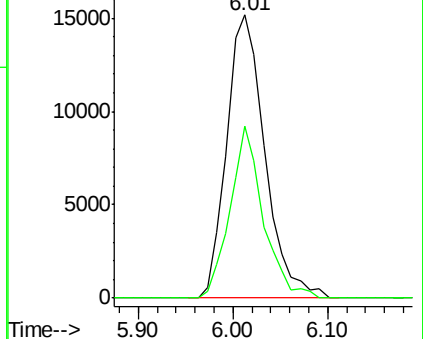
65 100

67 61.0 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: VD058173.D

Acq: 16 Jun 2018 1:07

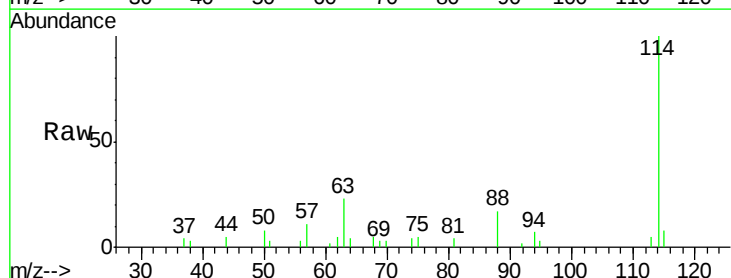
Tgt Ion: 114 Resp: 48901

Ion Ratio Lower Upper

114 100

63 22.7 0.0 42.8

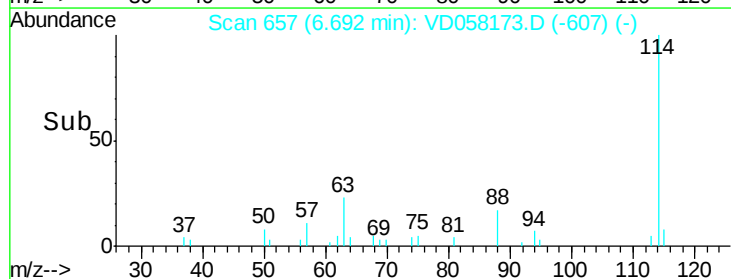
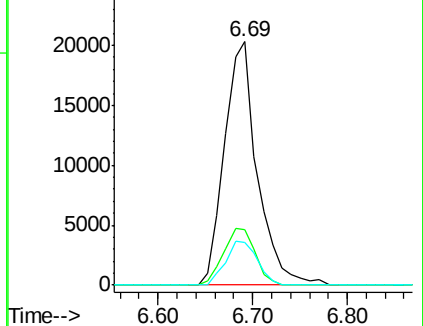
88 17.3 0.0 37.8

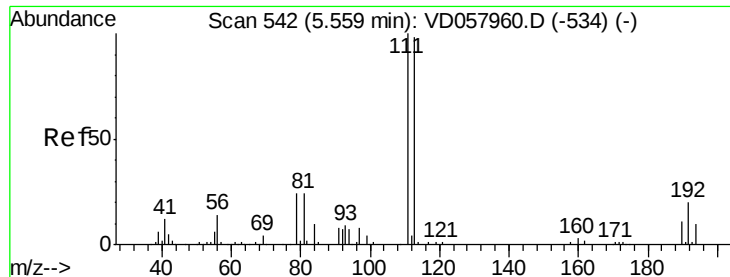


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

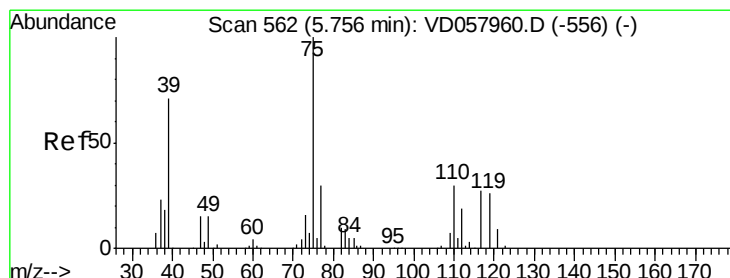
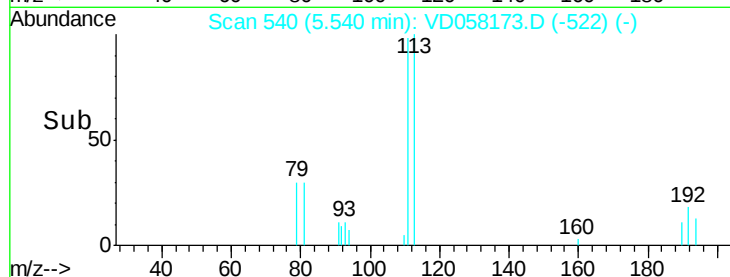
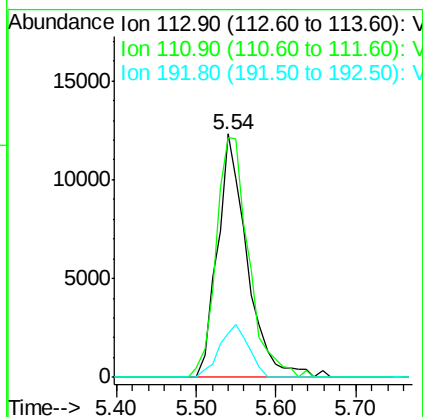
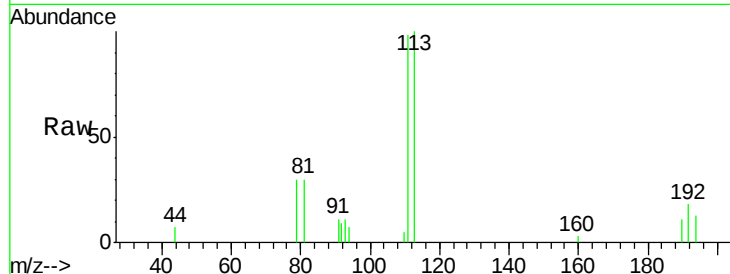




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.54 min Scan# 540
Delta R.T. -0.02 min
Lab File: VD058173.D
Acq: 16 Jun 2018 1:07

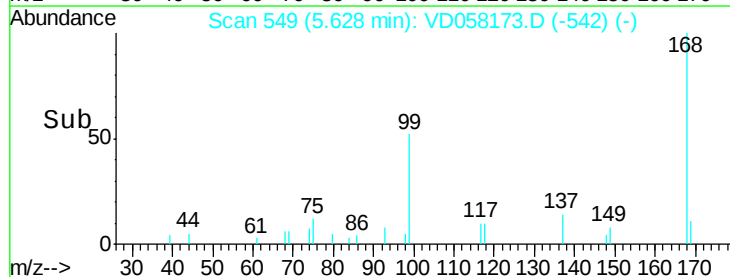
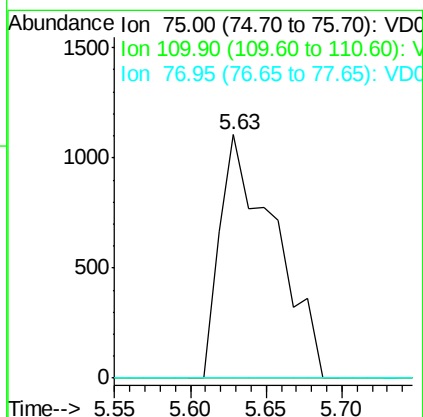
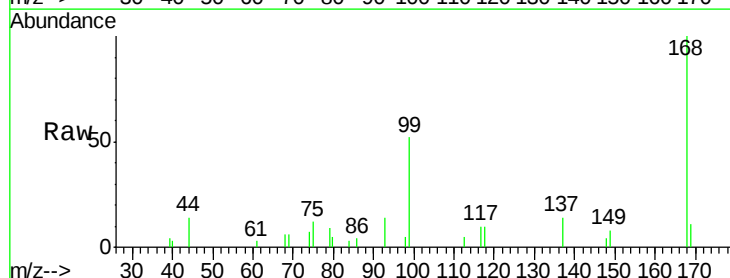
Instrument :
MSVOA_D
ClientSampleId :

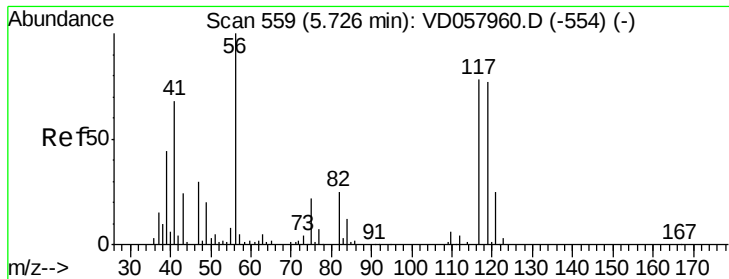
Tot Ion:113 Resp: 32136
Ion Ratio Lower Upper
113 100
111 98.3 81.5 122.3
192 17.9 16.4 24.6



#36
1,1-Dichloropropene
Concen: 5.169 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.13 min
Lab File: VD058173.D
Acq: 16 Jun 2018 1:07

Tgt Ion: 75 Resp: 2785
Ion Ratio Lower Upper
75 100
110 0.0 14.8 44.3#
77 0.0 23.9 35.9#





#38

Carbon Tetrachloride

Concen: 4.893 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

Instrument :

MSVOA_D

ClientSampleId :

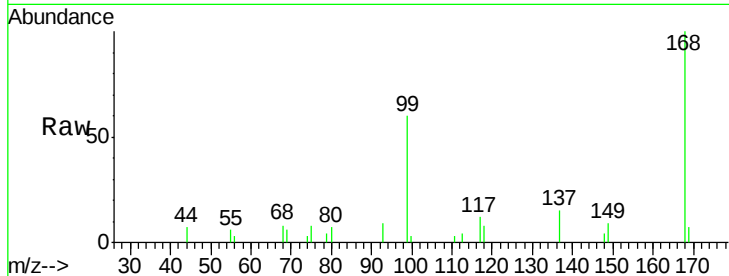
Tot Ion:117 Resp: 2598

Ion Ratio Lower Upper

117 100

119 0.0 76.1 114.1#

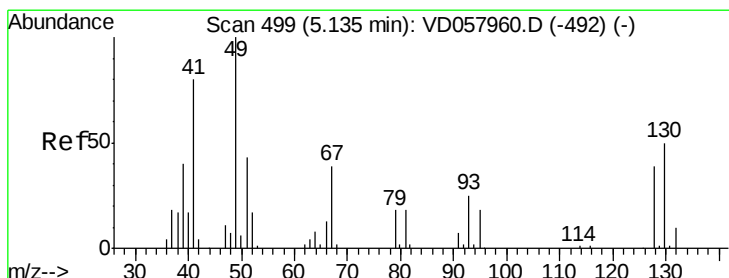
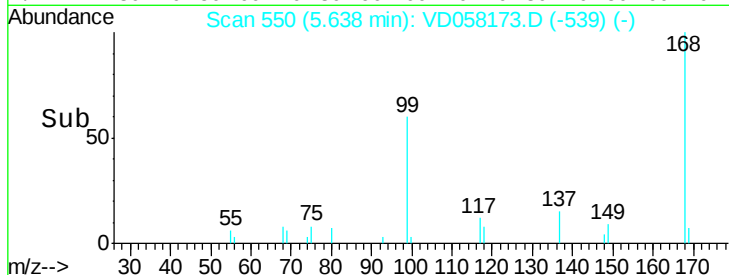
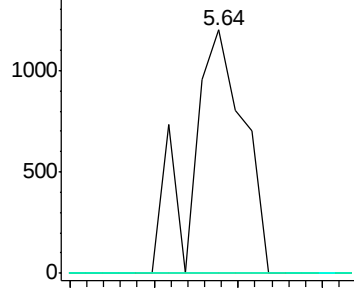
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.339 ug/l

RT: 5.26 min Scan# 512

Delta R.T. 0.13 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

Tgt Ion: 41 Resp: 180

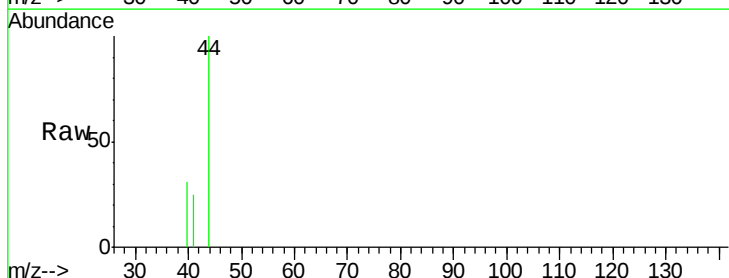
Ion Ratio Lower Upper

41 100

39 0.0 40.7 61.1#

67 0.0 38.8 58.2#

52 0.0 17.3 25.9#

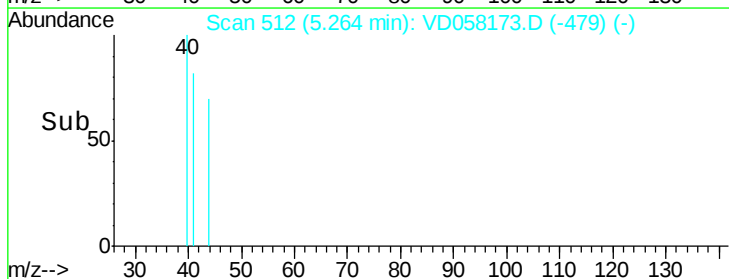
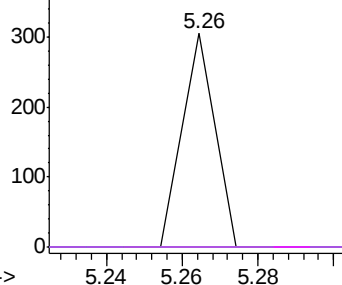


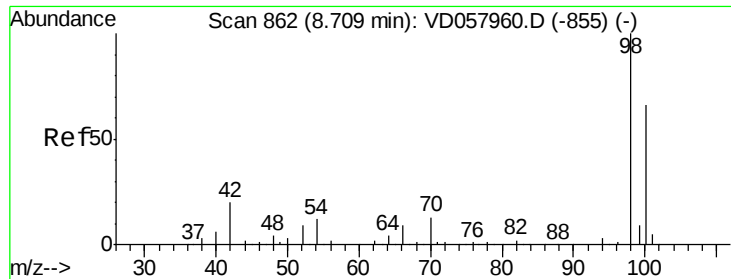
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

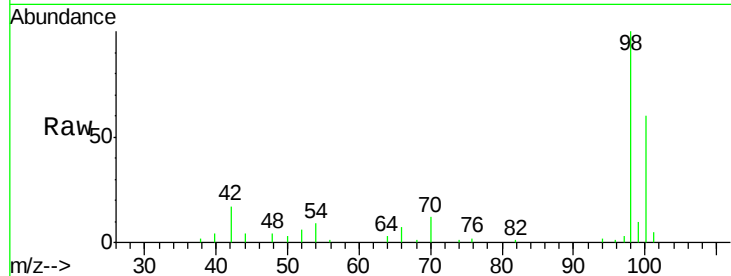




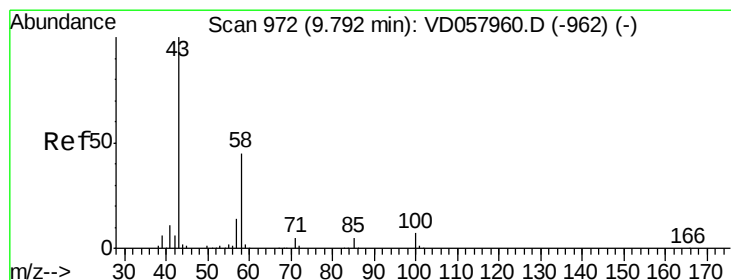
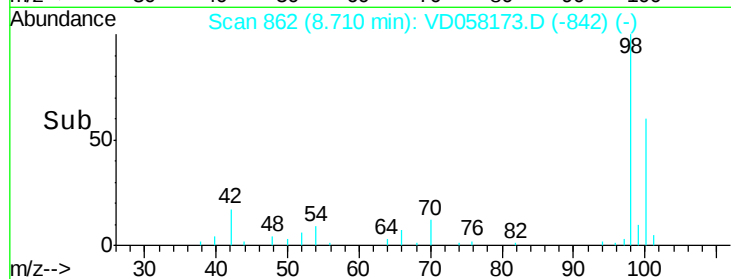
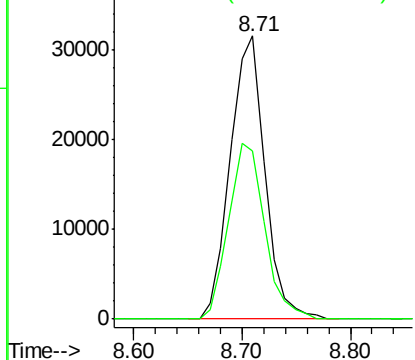
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058173.D
Acq: 16 Jun 2018 1:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 70149
Ion Ratio Lower Upper
98 100
100 59.6 53.4 80.0

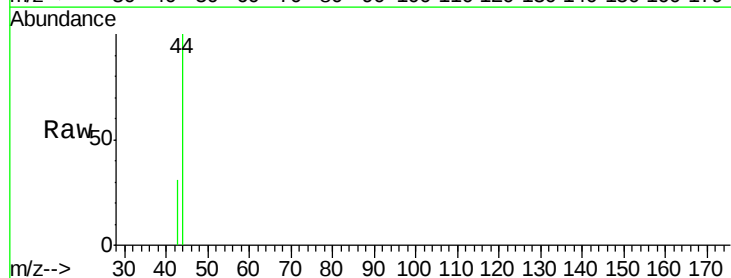


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

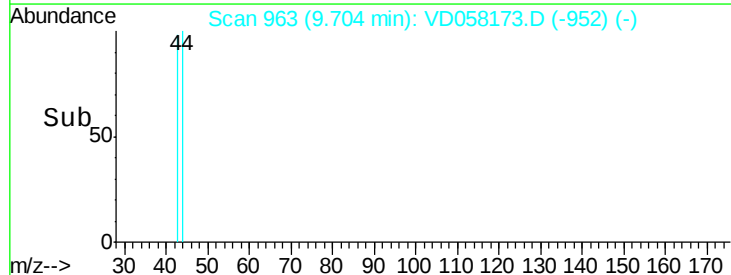
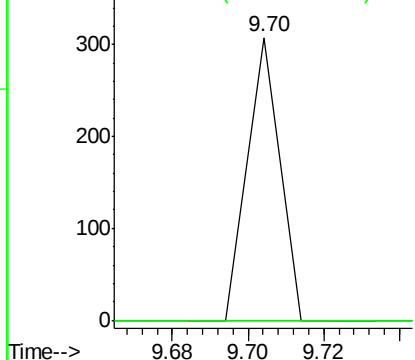


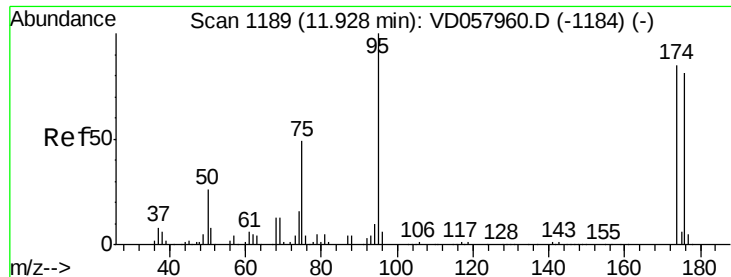
#59
2-Hexanone
Concen: 1.006 ug/l
RT: 9.70 min Scan# 963
Delta R.T. -0.09 min
Lab File: VD058173.D
Acq: 16 Jun 2018 1:07

Tgt Ion: 43 Resp: 182
Ion Ratio Lower Upper
43 100
58 0.0 22.5 67.5#



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: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

Instrument :

MSVOA_D

ClientSampleId :

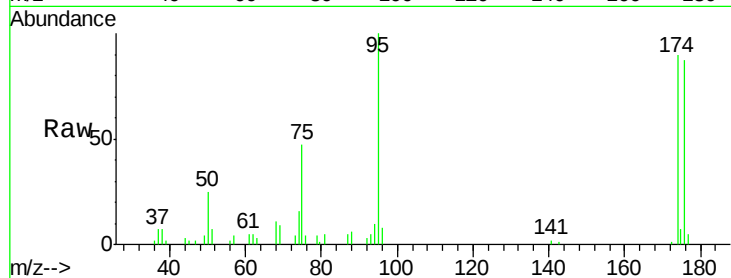
Tot Ion: 95 Resp: 33491

Ion Ratio Lower Upper

95 100

174 89.6 0.0 169.4

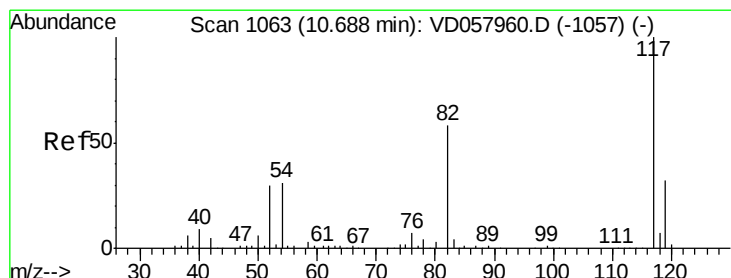
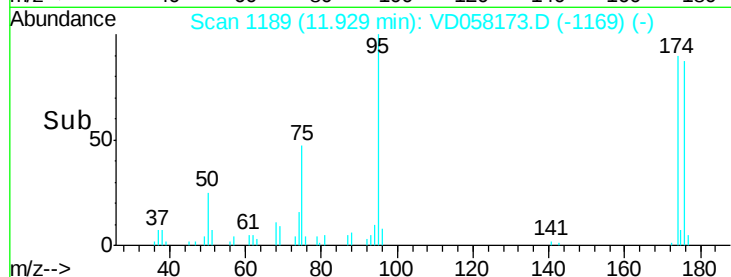
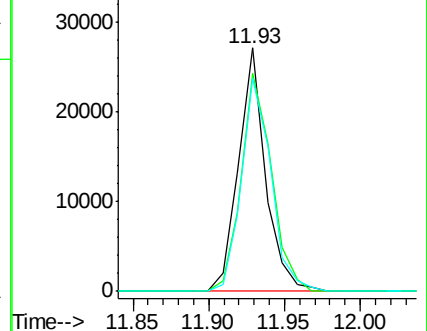
176 87.3 0.0 162.6



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: VD058173.D

Acq: 16 Jun 2018 1:07

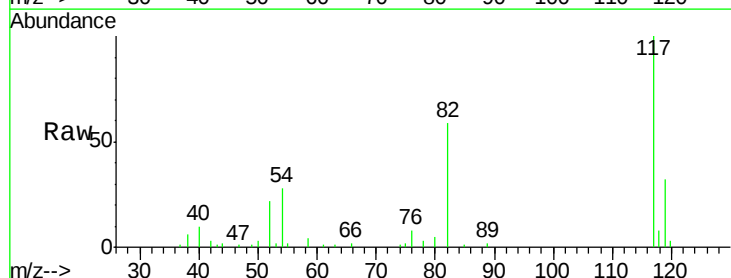
Tgt Ion: 117 Resp: 49583

Ion Ratio Lower Upper

117 100

82 59.3 46.8 70.2

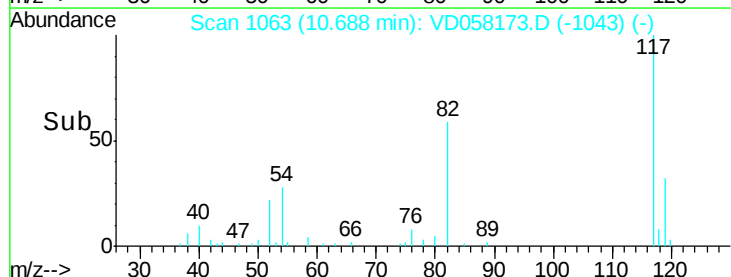
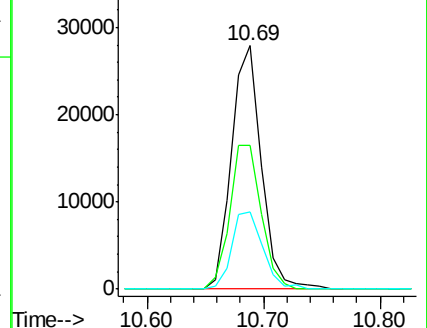
119 31.9 25.8 38.6

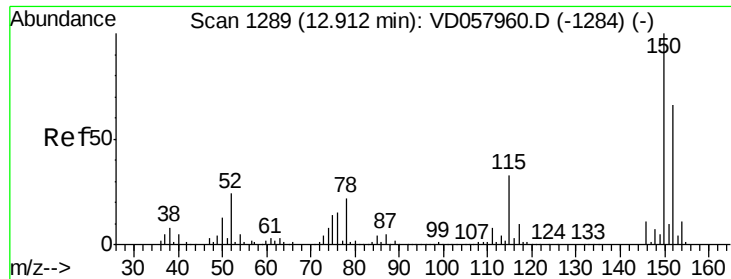


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD058173.D

Acq: 16 Jun 2018 1:07

Instrument :

MSVOA_D

ClientSampleId :

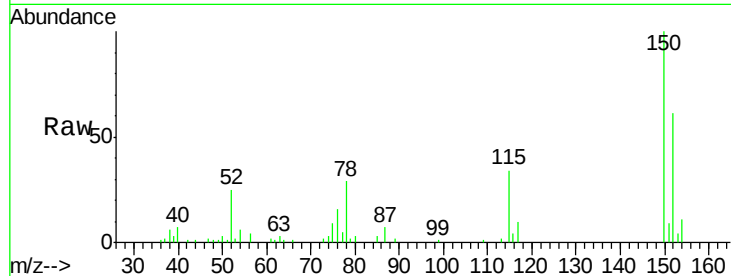
Tot Ion:152 Resp: 32314

Ion Ratio Lower Upper

152 100

115 54.7 25.6 76.6

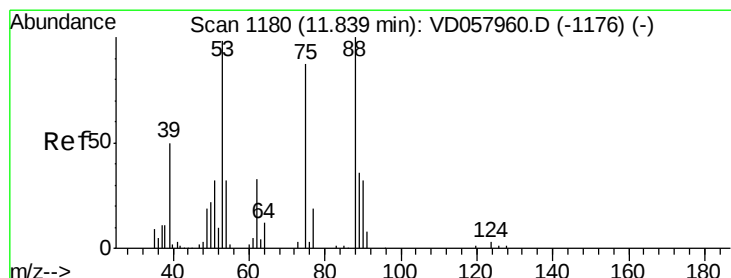
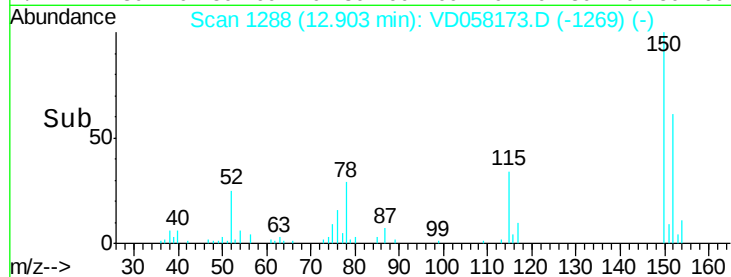
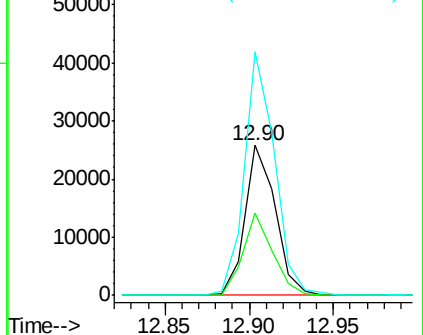
150 162.8 0.0 306.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 140.351 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

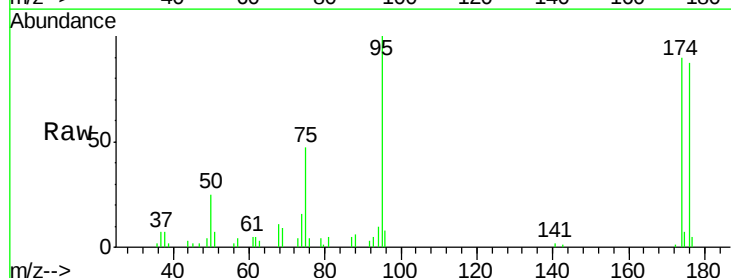
Tgt Ion: 75 Resp: 16874

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

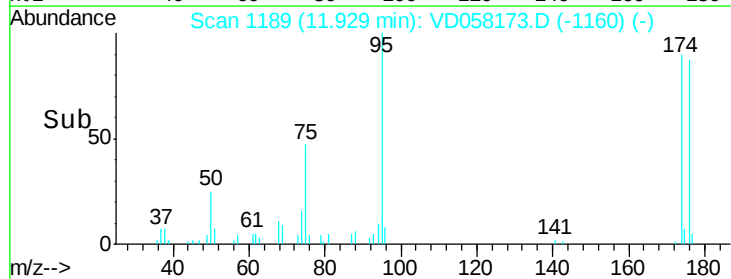
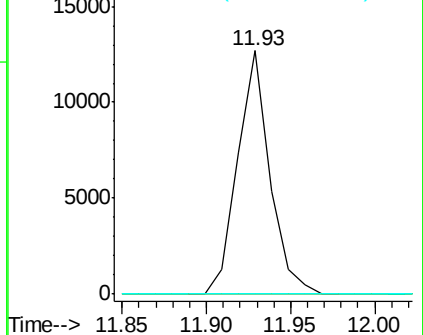
89 0.0 33.3 49.9#

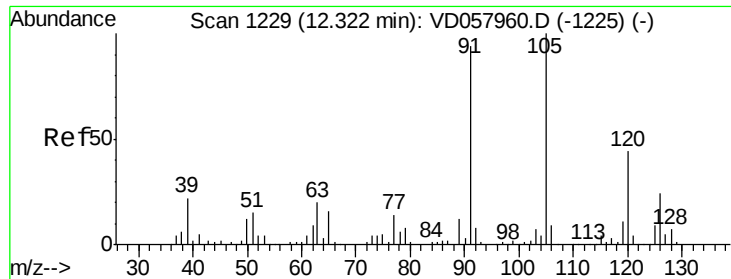


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

Instrument :

MSVOA_D

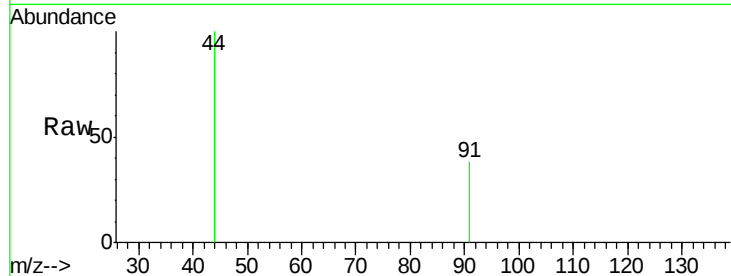
ClientSampleId :

Tot Ion: 91 Resp: 187

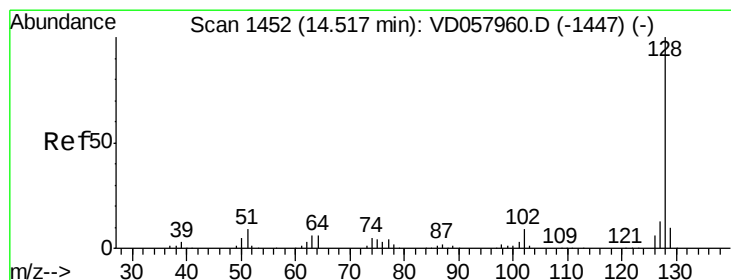
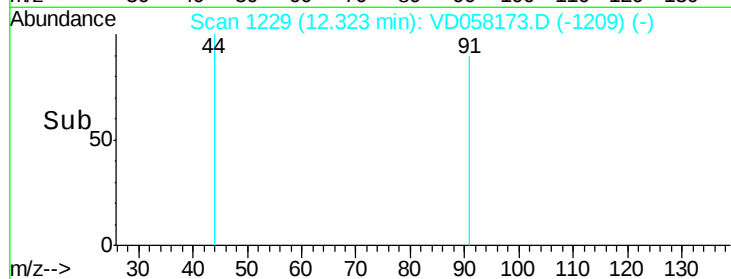
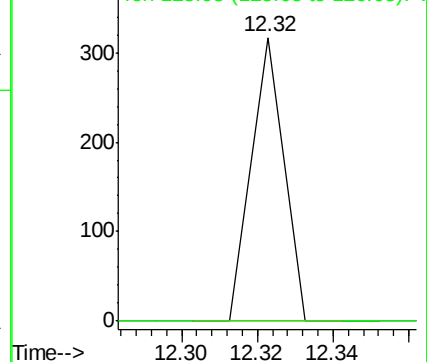
Ion Ratio Lower Upper

91 100

126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 3.035 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058173.D

Acq: 16 Jun 2018 1:07

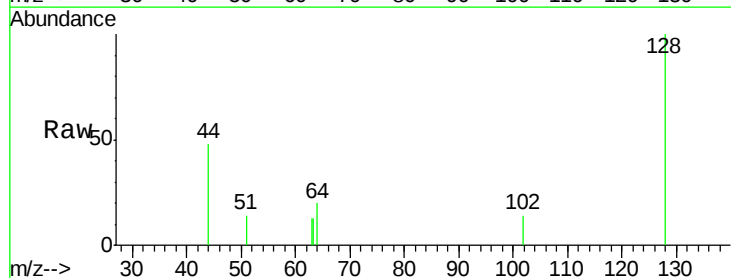
Tgt Ion: 128 Resp: 3166

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.2 12.2#



Abundance Ion 128.00 (127.70 to 128.70): V

