

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062718\
 Data File : VD059451.D
 Acq On : 27 Jun 2018 18:19
 Operator : VA/AP
 Sample : J3614-02RE
 Misc : 10.09g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 28 02:59:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	624877	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.70	114	820439	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	612510	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	248007	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	246801	38.62	ug/l	-0.01
Spiked Amount			Recovery	=	77.24%	
35) Dibromofluoromethane	5.55	113	260939	39.05	ug/l	0.00
Spiked Amount			Recovery	=	78.10%	
50) Toluene-d8	8.70	98	517963	33.15	ug/l	-0.01
Spiked Amount			Recovery	=	66.30%	
62) 4-Bromofluorobenzene	11.93	95	196016	30.16	ug/l	0.00
Spiked Amount			Recovery	=	60.32%	

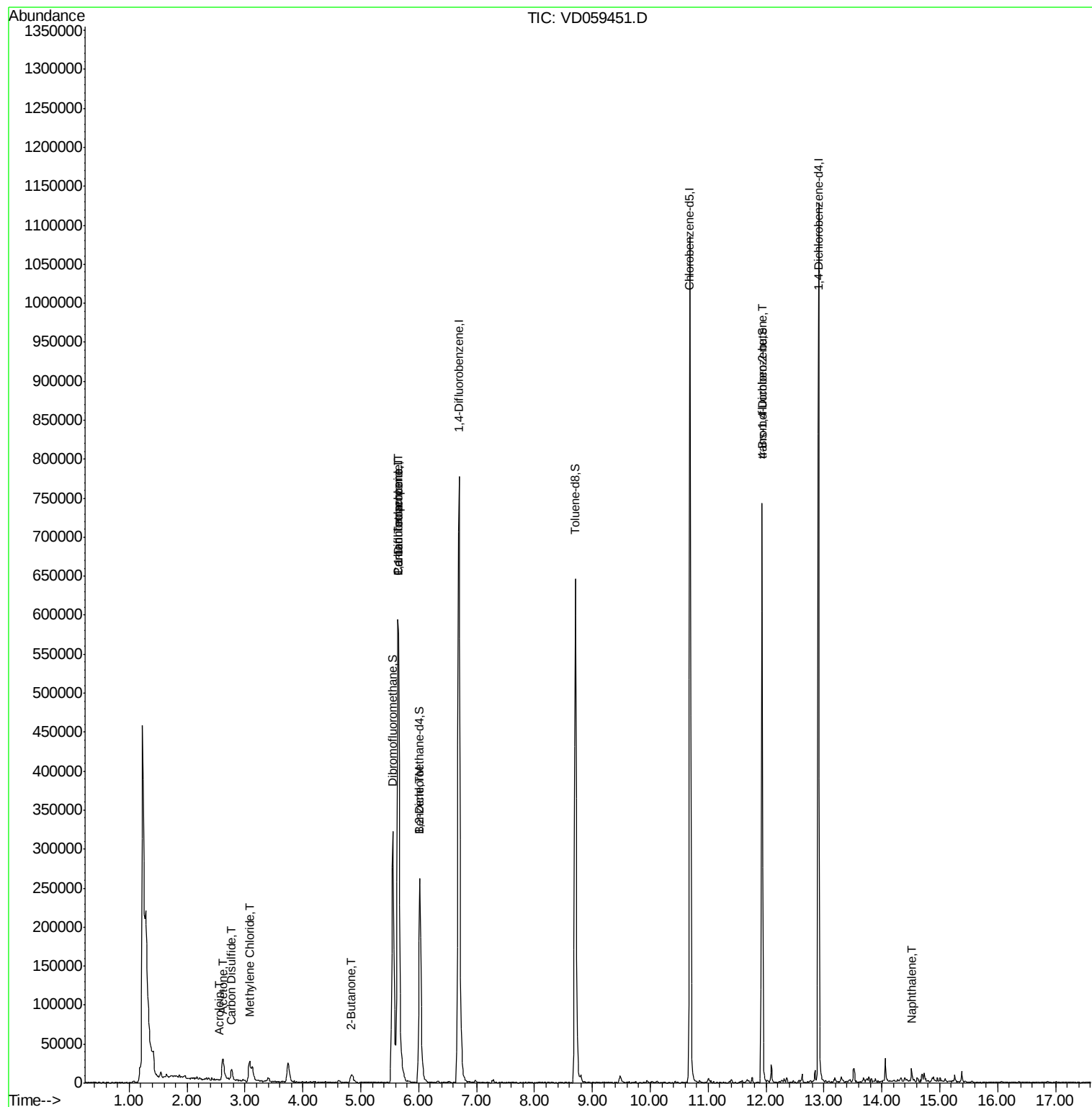
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.82	94	181	Below Cal	#	4
13) Acrolein	2.54	56	198	1.002	ug/l #	16
16) Acetone	2.62	43	62688	77.728	ug/l	92
17) Carbon Disulfide	2.77	76	22063	3.499	ug/l	98
18) Methyl Acetate	2.97	43	1030	Below Cal	#	66
20) Methylene Chloride	3.07	84	11330	2.706	ug/l	90
25) 2-Butanone	4.84	43	17210	10.187	ug/l	93
31) Cyclohexane	5.64	56	15767	Below Cal	#	4
36) 1,1-Dichloropropene	5.64	75	51923	6.977	ug/l #	50
38) Carbon Tetrachloride	5.64	117	51771	6.747	ug/l #	15
40) Benzene	6.02	78	32376	1.813	ug/l #	87
81) trans-1,4-Dichloro-2-buten	11.93	75	96447	124.042	ug/l #	1
95) Naphthalene	14.51	128	9174	1.159	ug/l #	92

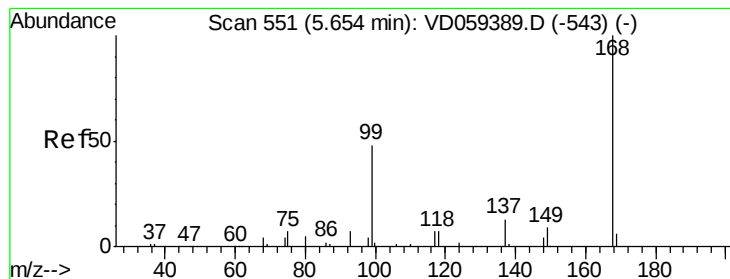
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 25 07:29:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.00 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

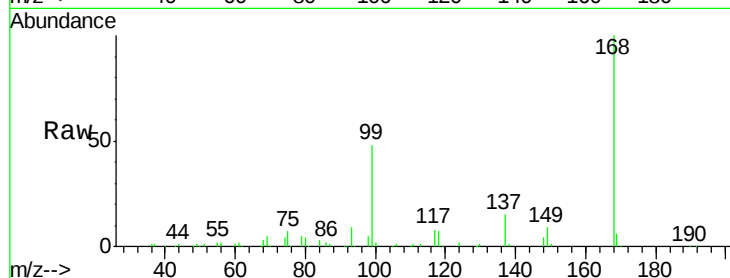
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 624877

Ion Ratio Lower Upper

168 100

99 47.9 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.65

250000

200000

150000

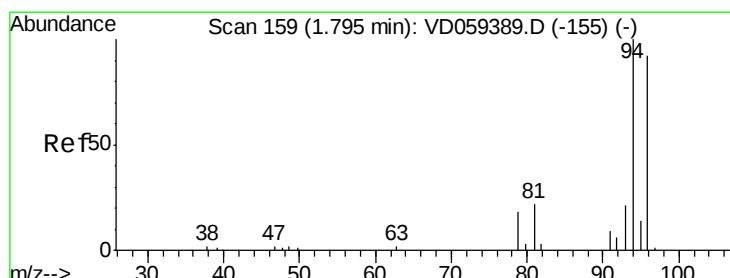
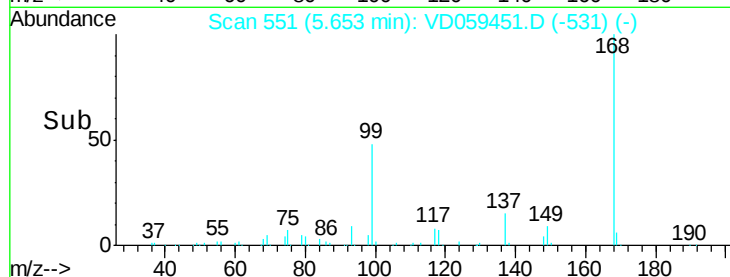
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.82 min Scan# 162

Delta R.T. 0.03 min

Lab File: VD059451.D

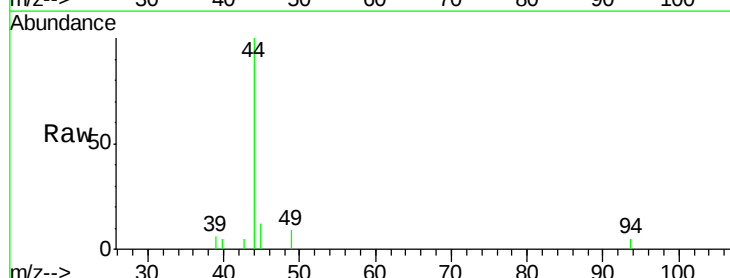
Acq: 27 Jun 2018 18:19

Tgt Ion: 94 Resp: 181

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.82

300

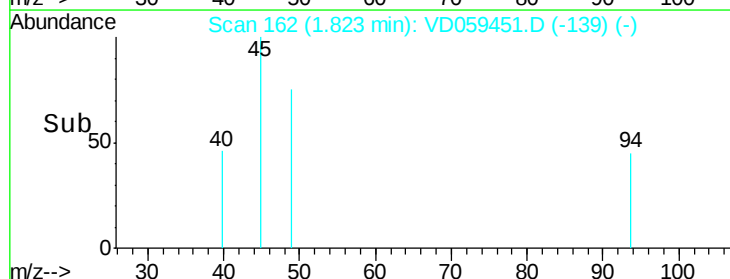
200

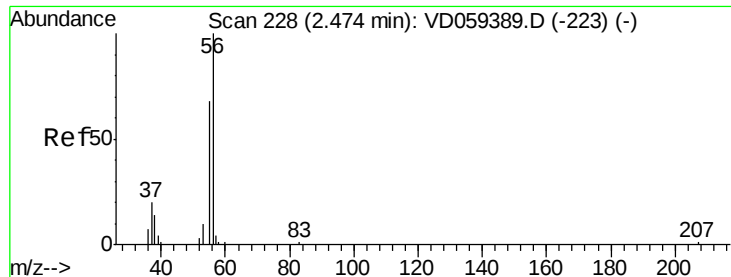
100

0

Time-->

1.80 1.82 1.84





#13

Acrolein

Concen: 1.002 ug/l

RT: 2.54 min Scan# 235

Delta R.T. 0.07 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

Instrument :

MSVOA_D

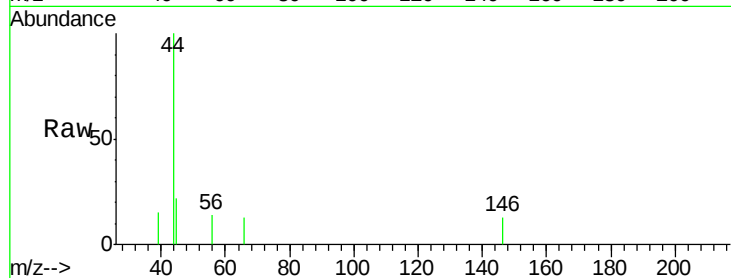
ClientSampleId :

Tot Ion: 56 Resp: 198

Ion Ratio Lower Upper

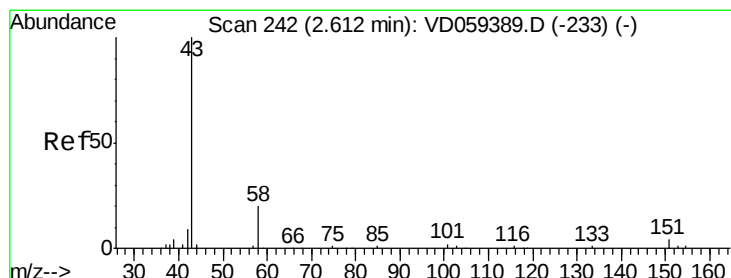
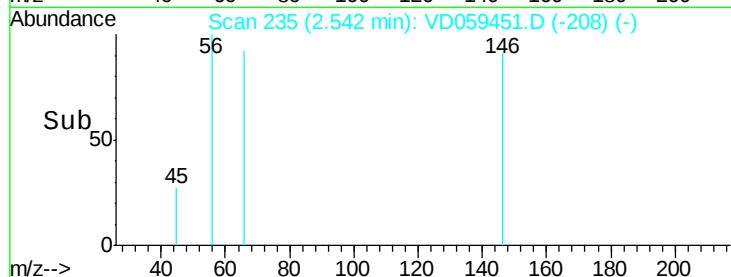
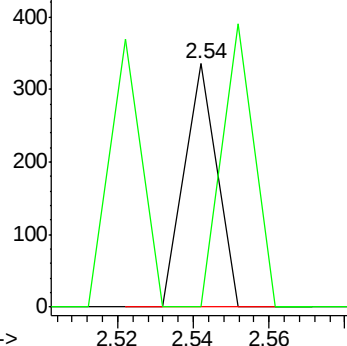
56 100

55 0.0 54.6 82.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 77.728 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD059451.D

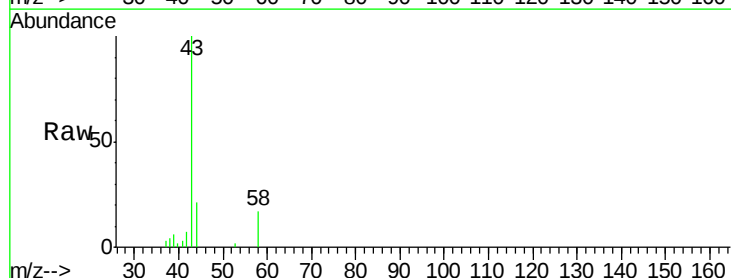
Acq: 27 Jun 2018 18:19

Tgt Ion: 43 Resp: 62688

Ion Ratio Lower Upper

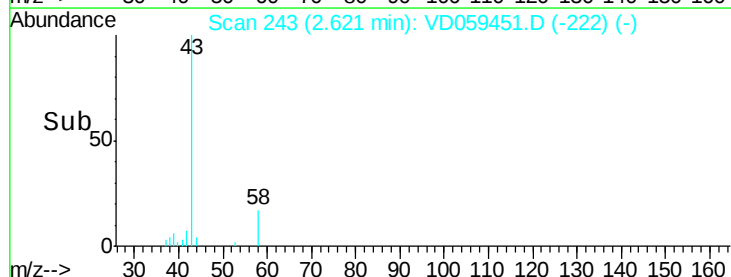
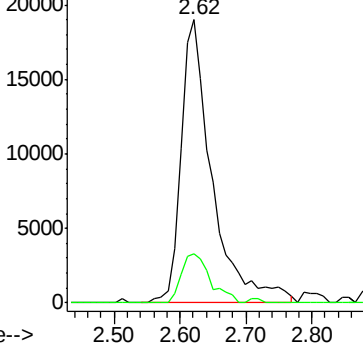
43 100

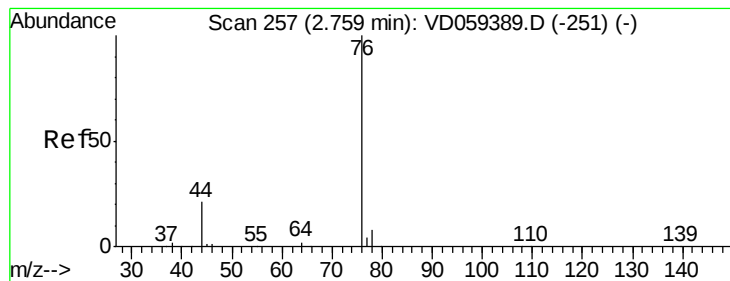
58 17.3 16.8 25.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 3.499 ug/l

RT: 2.77 min Scan# 258

Delta R.T. 0.01 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

Instrument :

MSVOA_D

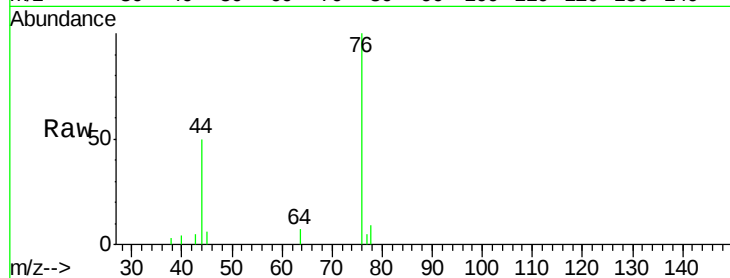
ClientSampleId :

Tot Ion: 76 Resp: 22063

Ion Ratio Lower Upper

76 100

78 9.0 6.6 9.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

10000

8000

6000

4000

2000

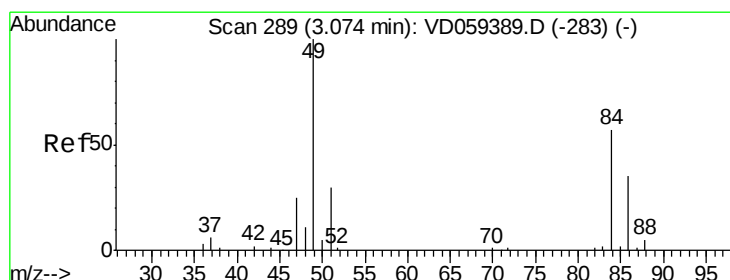
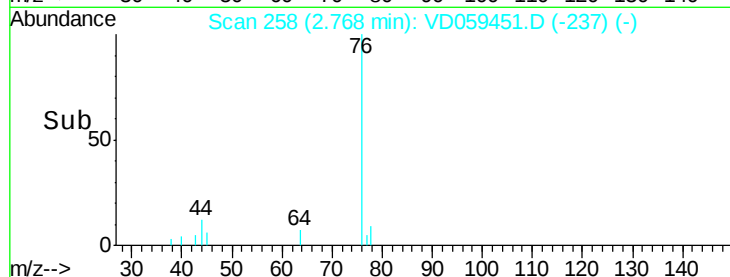
0

Time-->

2.70

2.80

2.90



#20

Methylene Chloride

Concen: 2.706 ug/l

RT: 3.07 min Scan# 289

Delta R.T. -0.00 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

Tgt Ion: 84 Resp: 11330

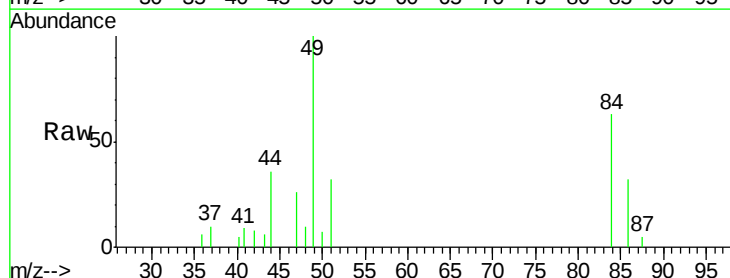
Ion Ratio Lower Upper

84 100

49 158.9 140.3 210.5

51 51.5 41.6 62.4

86 50.7 49.4 74.2



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

10000

8000

6000

4000

2000

0

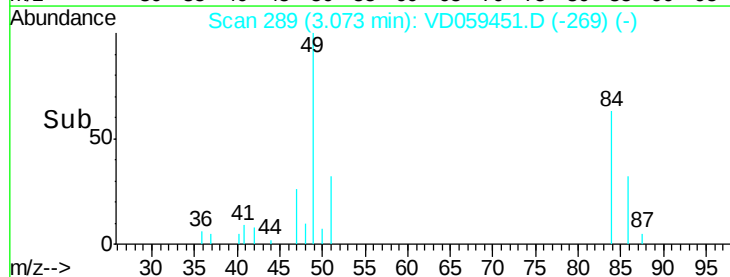
Time-->

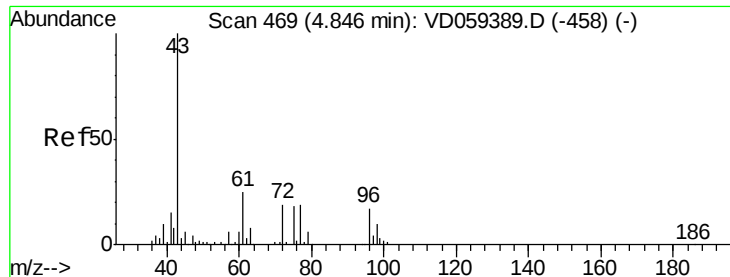
3.00

3.05

3.10

3.15





#25

2-Butanone

Concen: 10.187 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

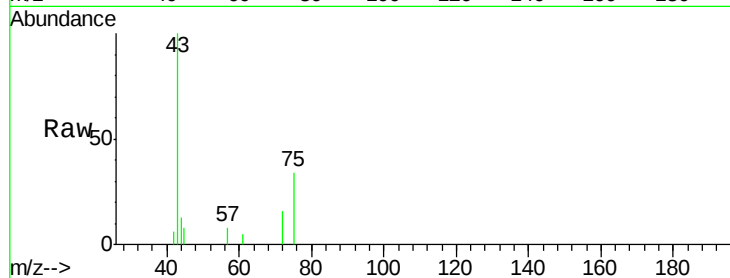
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 17210

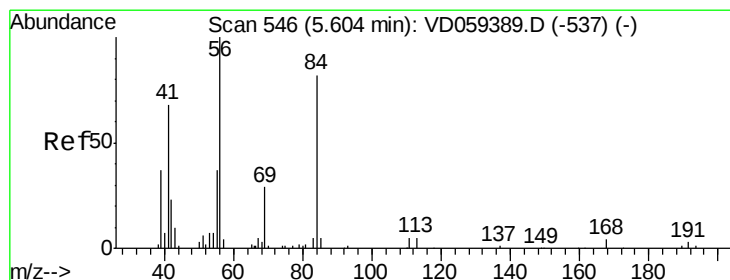
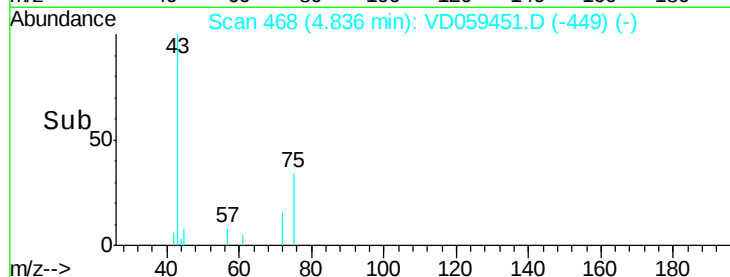
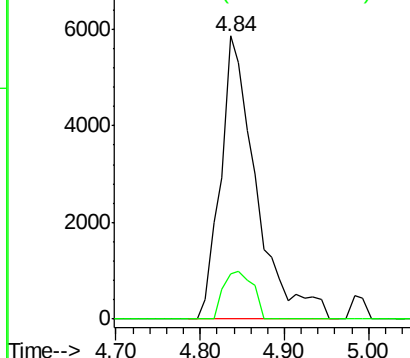
Ion Ratio Lower Upper

43 100

72 16.1 15.4 23.2



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



#31

Cyclohexane

Concen: Below Cal

RT: 5.64 min Scan# 550

Delta R.T. 0.04 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

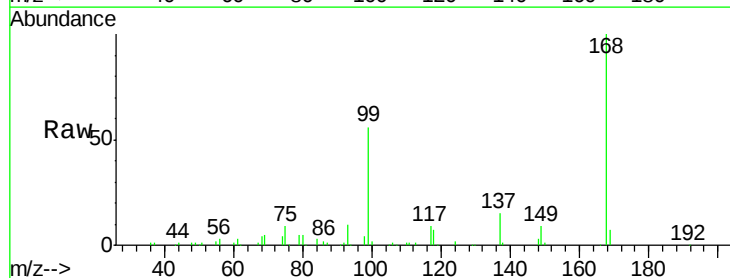
Tgt Ion: 56 Resp: 15767

Ion Ratio Lower Upper

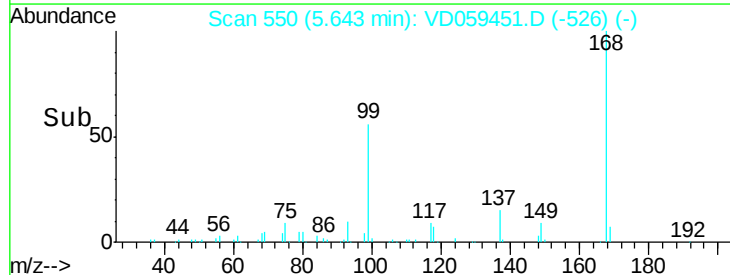
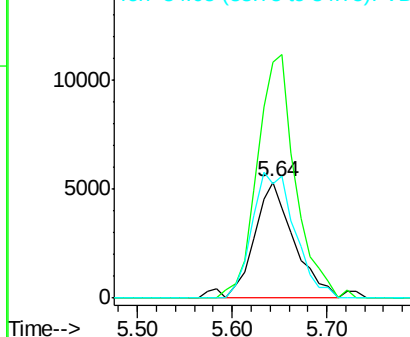
56 100

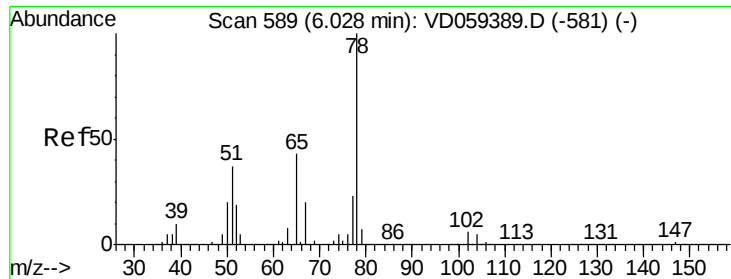
69 203.5 22.9 34.3#

84 99.2 67.3 100.9



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





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

Instrument :

MSVOA_D

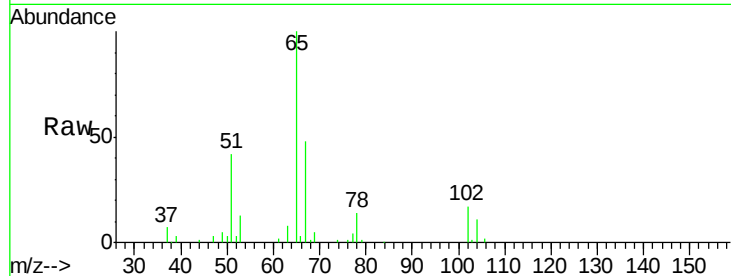
ClientSampled :

Tot Ion: 65 Resp: 246801

Ion Ratio Lower Upper

65 100

67 47.8 0.0 93.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.02

80000

60000

40000

20000

0

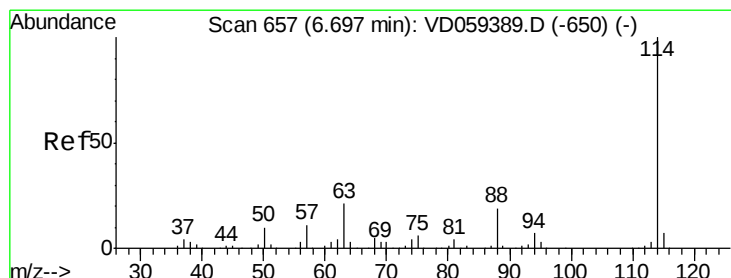
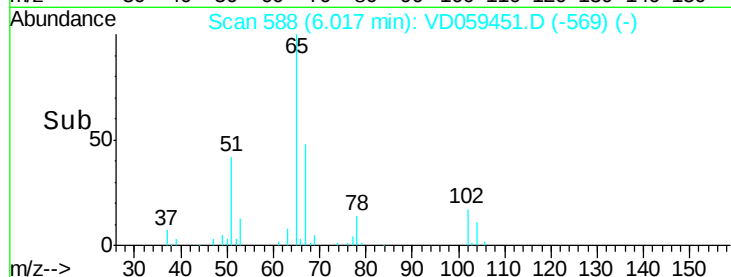
Time-->

5.90

6.00

6.10

6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

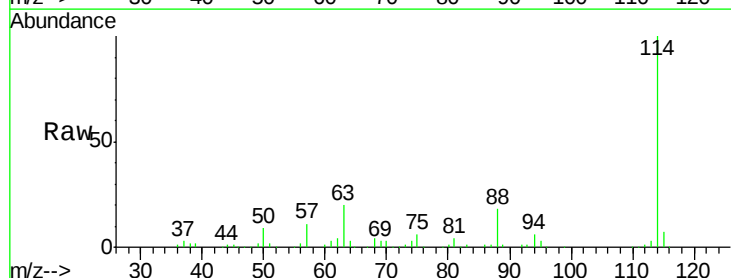
Tgt Ion: 114 Resp: 820439

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 18.1 0.0 38.0



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

6.70

400000

300000

200000

100000

0

Time-->

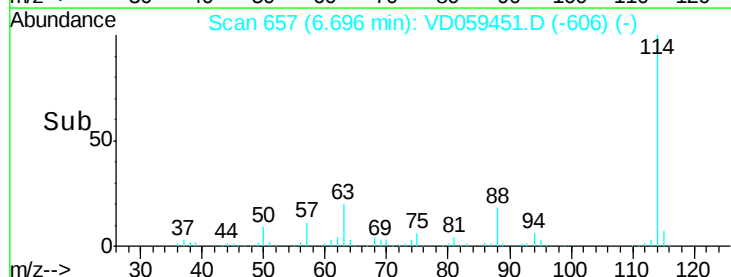
6.50

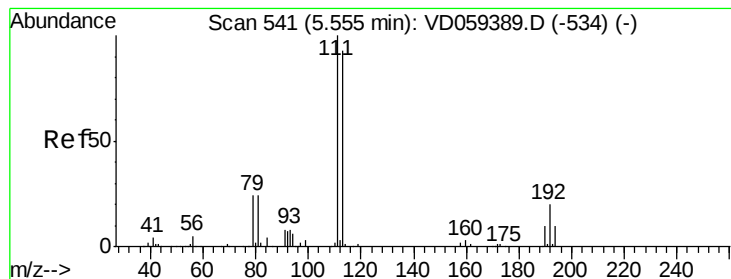
6.60

6.70

6.80

6.90





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.00 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

Instrument :
MSVOA_D
ClientSampleId :

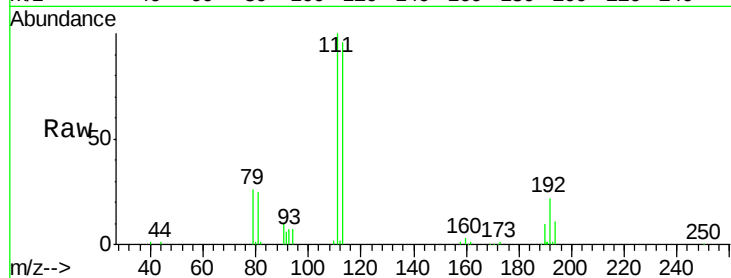
Tot Ion:113 Resp: 260939

Ion Ratio Lower Upper

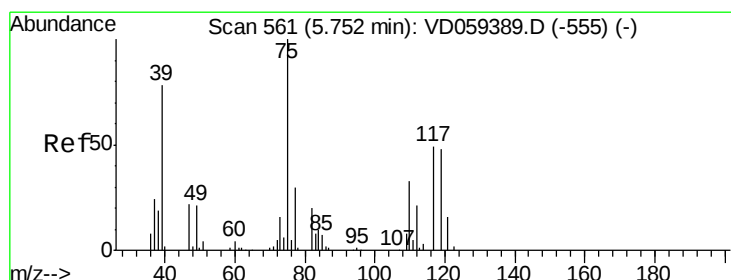
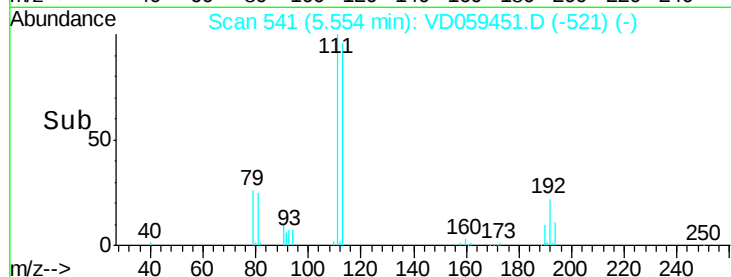
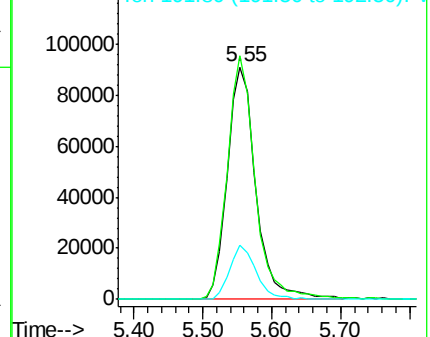
113 100

111 104.7 85.7 128.5

192 23.5 16.9 25.3



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: 6.977 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

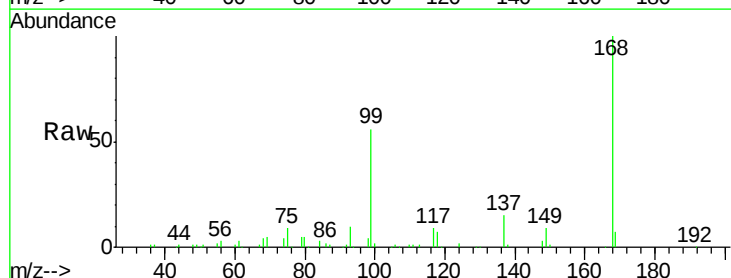
Tgt Ion: 75 Resp: 51923

Ion Ratio Lower Upper

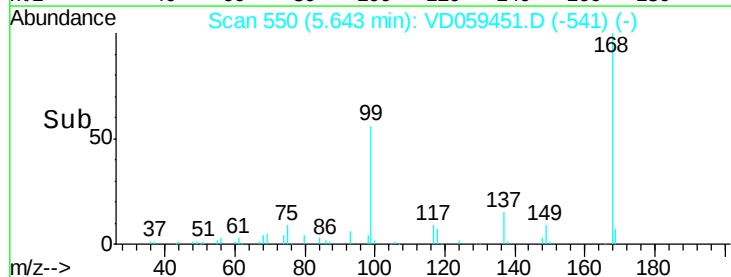
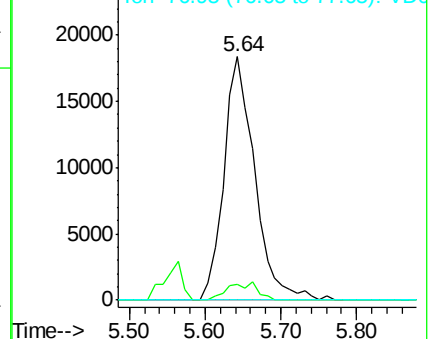
75 100

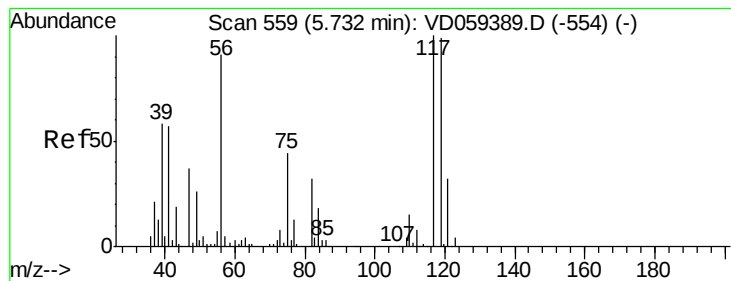
110 6.4 16.1 48.2#

77 0.0 23.4 35.2#



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: 6.747 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

Instrument :

MSVOA_D

ClientSampleId :

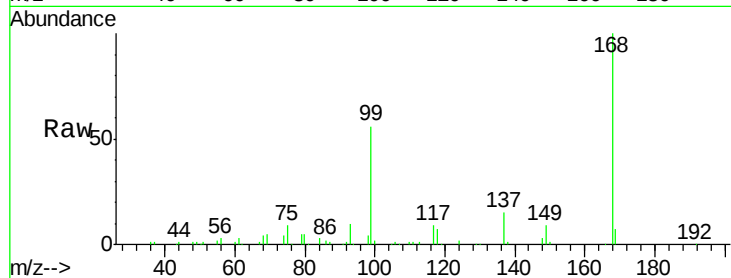
Tot Ion:117 Resp: 51771

Ion Ratio Lower Upper

117 100

119 3.8 76.6 115.0#

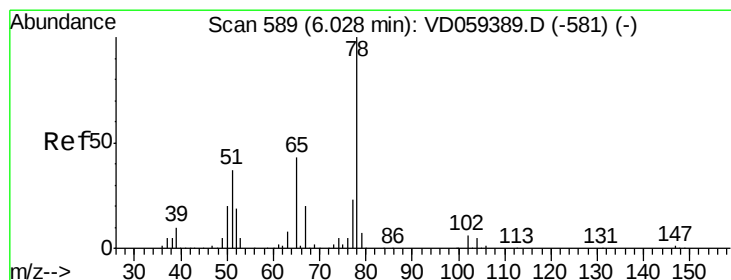
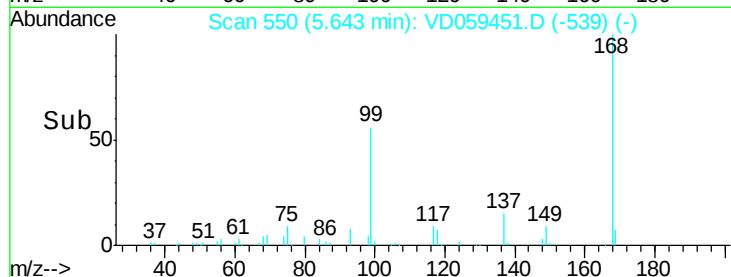
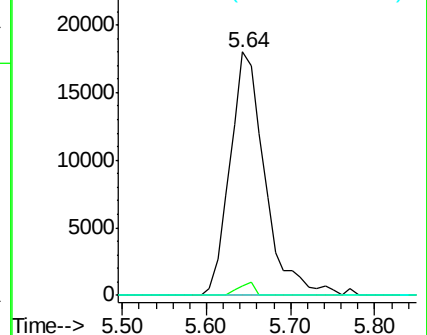
121 0.0 25.0 37.4#



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: 1.813 ug/l

RT: 6.02 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD059451.D

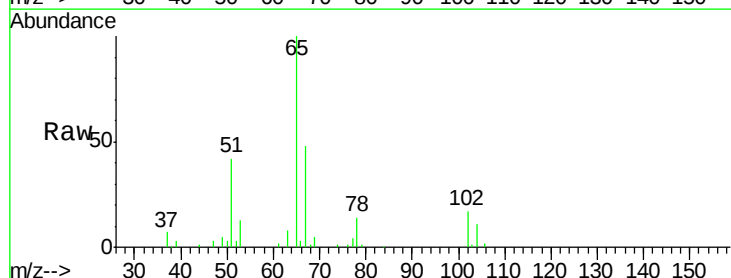
Acq: 27 Jun 2018 18:19

Tgt Ion: 78 Resp: 32376

Ion Ratio Lower Upper

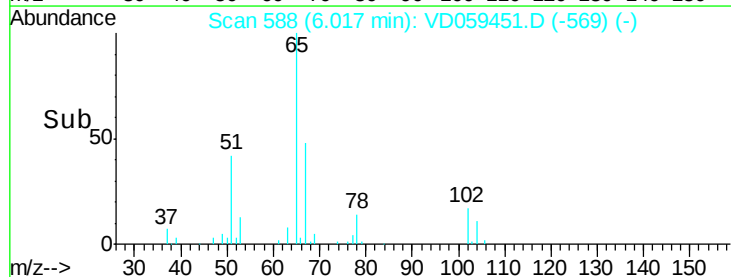
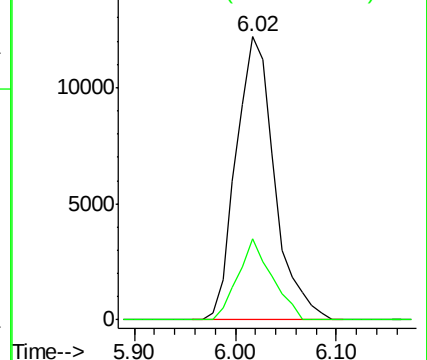
78 100

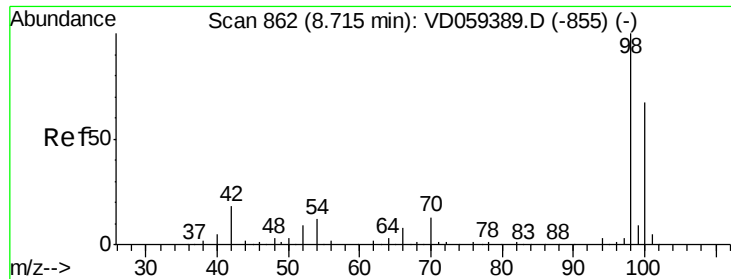
77 28.8 18.1 27.1#



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V

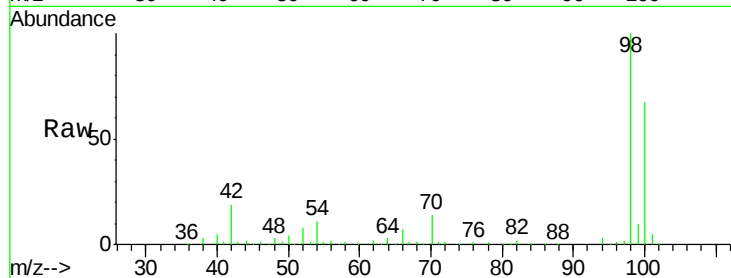




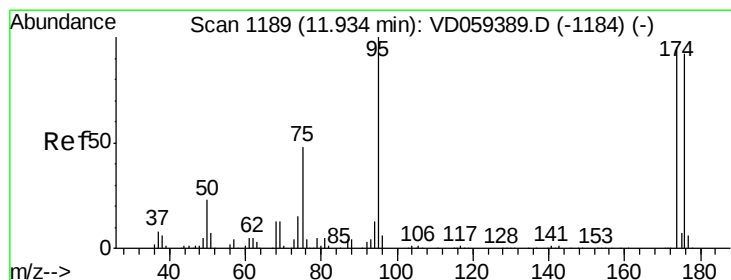
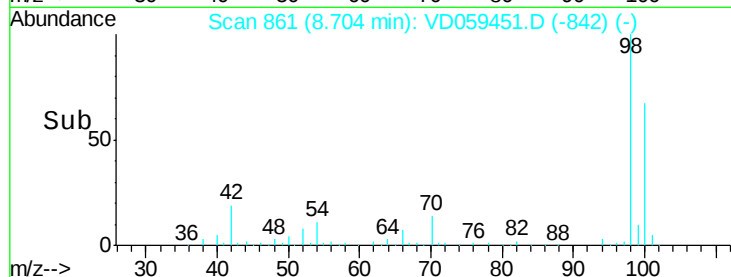
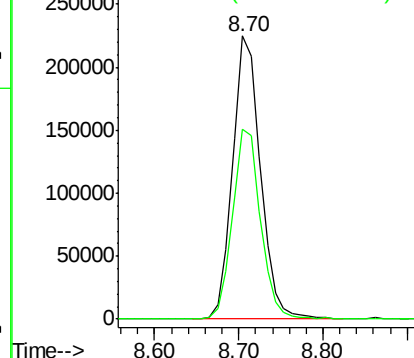
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD059451.D
Acq: 27 Jun 2018 18:19

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 517963
Ion Ratio Lower Upper
98 100
100 67.1 54.4 81.6

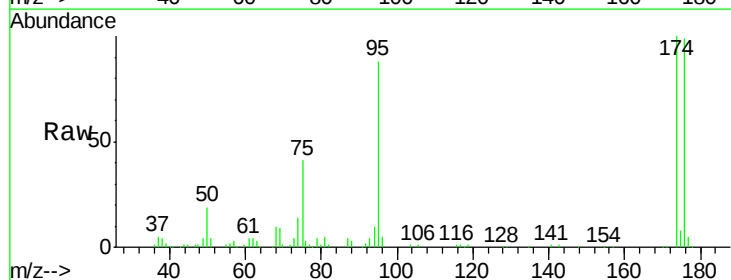


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

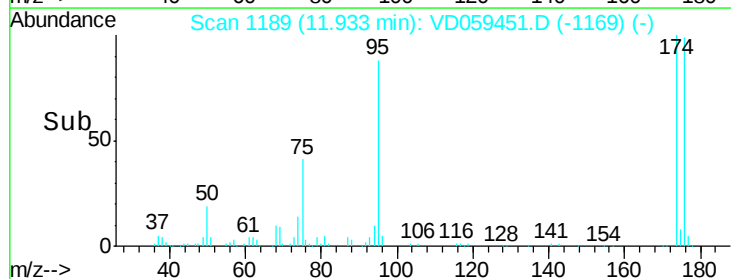
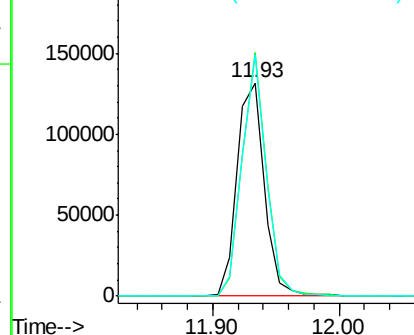


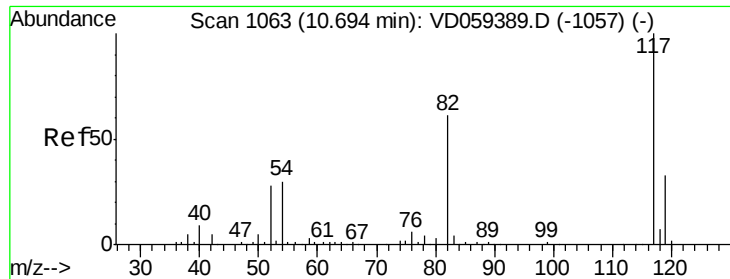
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VD059451.D
Acq: 27 Jun 2018 18:19

Tgt Ion: 95 Resp: 196016
Ion Ratio Lower Upper
95 100
174 114.0 0.0 190.4
176 112.9 0.0 183.2



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: VD059451.D

Acq: 27 Jun 2018 18:19

Instrument :

MSVOA_D

ClientSampleId :

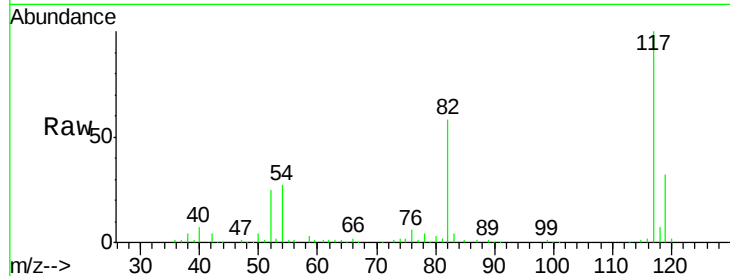
Tot Ion:117 Resp: 612510

Ion Ratio Lower Upper

117 100

82 57.6 49.0 73.6

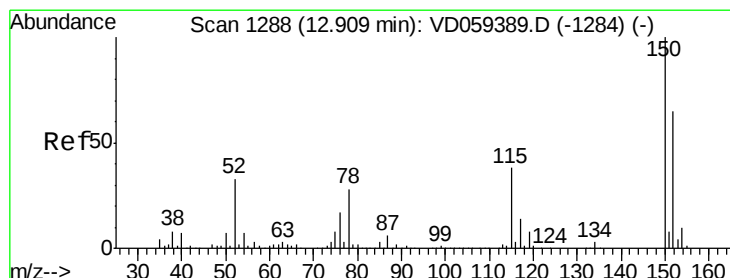
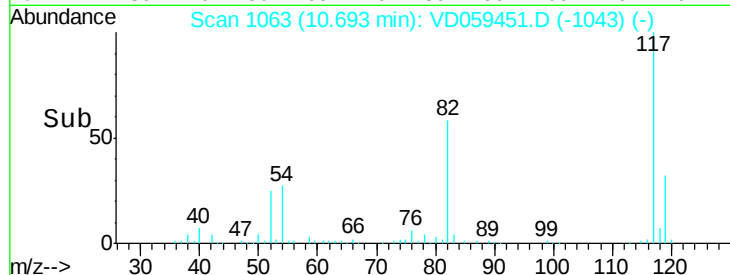
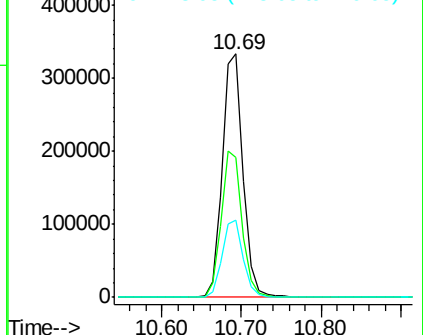
119 31.6 26.2 39.4



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: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

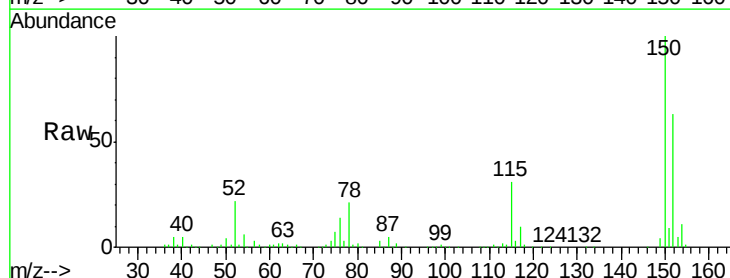
Tgt Ion:152 Resp: 248007

Ion Ratio Lower Upper

152 100

115 48.8 29.4 88.3

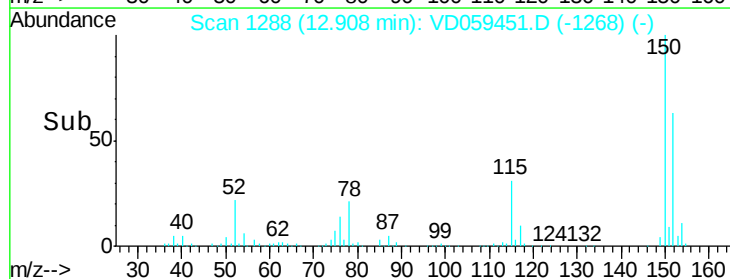
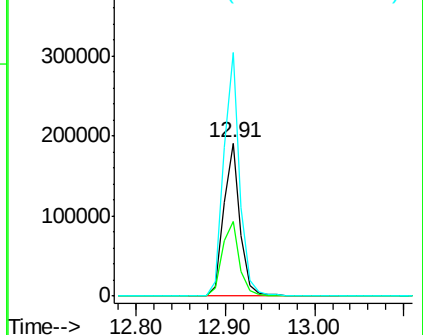
150 159.2 0.0 308.2

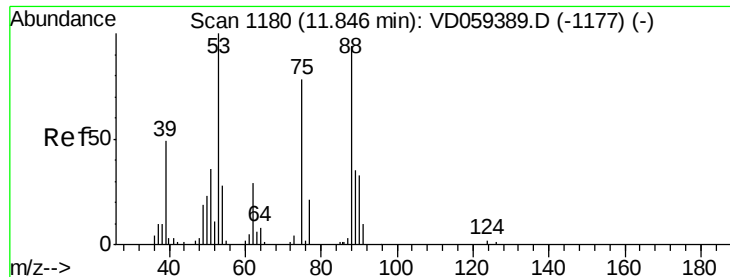


Abundance Ion 151.90 (151.60 to 152.60): V

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: 124.042 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

Instrument :

MSVOA_D

ClientSampleId :

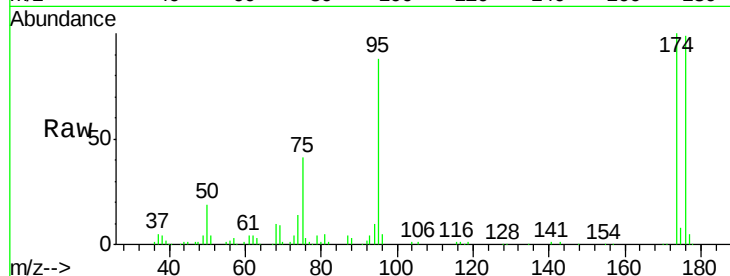
Tot Ion: 75 Resp: 96447

Ion Ratio Lower Upper

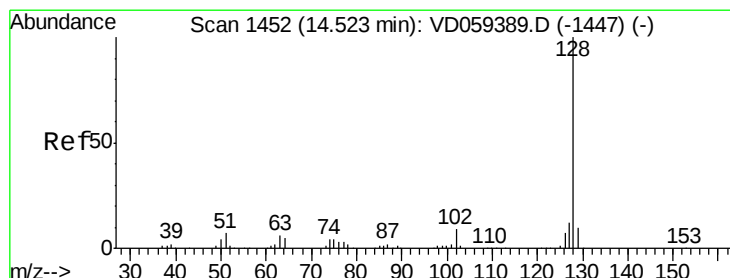
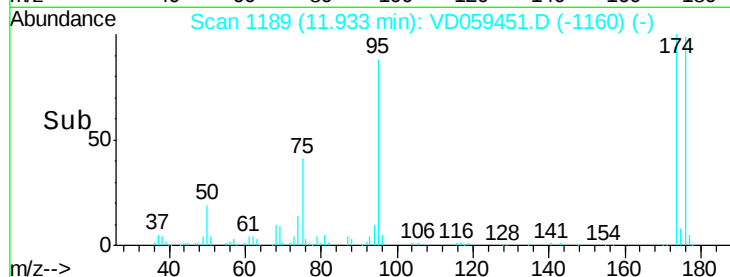
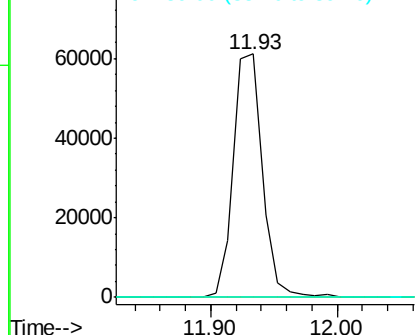
75 100

53 0.0 102.6 154.0#

89 0.0 35.9 53.9#



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



#95

Naphthalene

Concen: 1.159 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.01 min

Lab File: VD059451.D

Acq: 27 Jun 2018 18:19

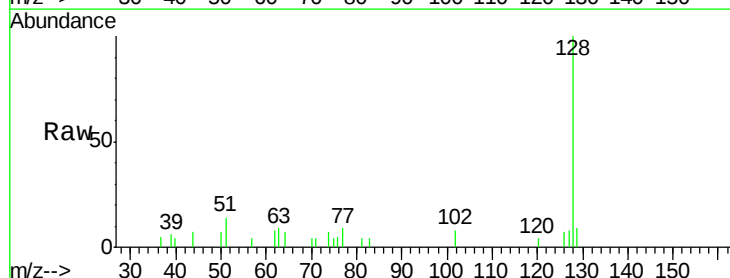
Tgt Ion:128 Resp: 9174

Ion Ratio Lower Upper

128 100

127 7.7 9.6 14.4#

129 8.9 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

