

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058168.D
 Acq On : 15 Jun 2018 22:46
 Operator : VA/AP
 Sample : J3518-01
 Misc : 6.20µl/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 23:20:20 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	29552	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	51550	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	46544	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	20191	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.02	65	44097	149.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	298.52%	
35) Dibromofluoromethane	5.55	113	33672	84.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	168.84%	
50) Toluene-d8	8.70	98	68907	72.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	145.34%	
62) 4-Bromofluorobenzene	11.93	95	28328	68.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.96%	

Target Compounds

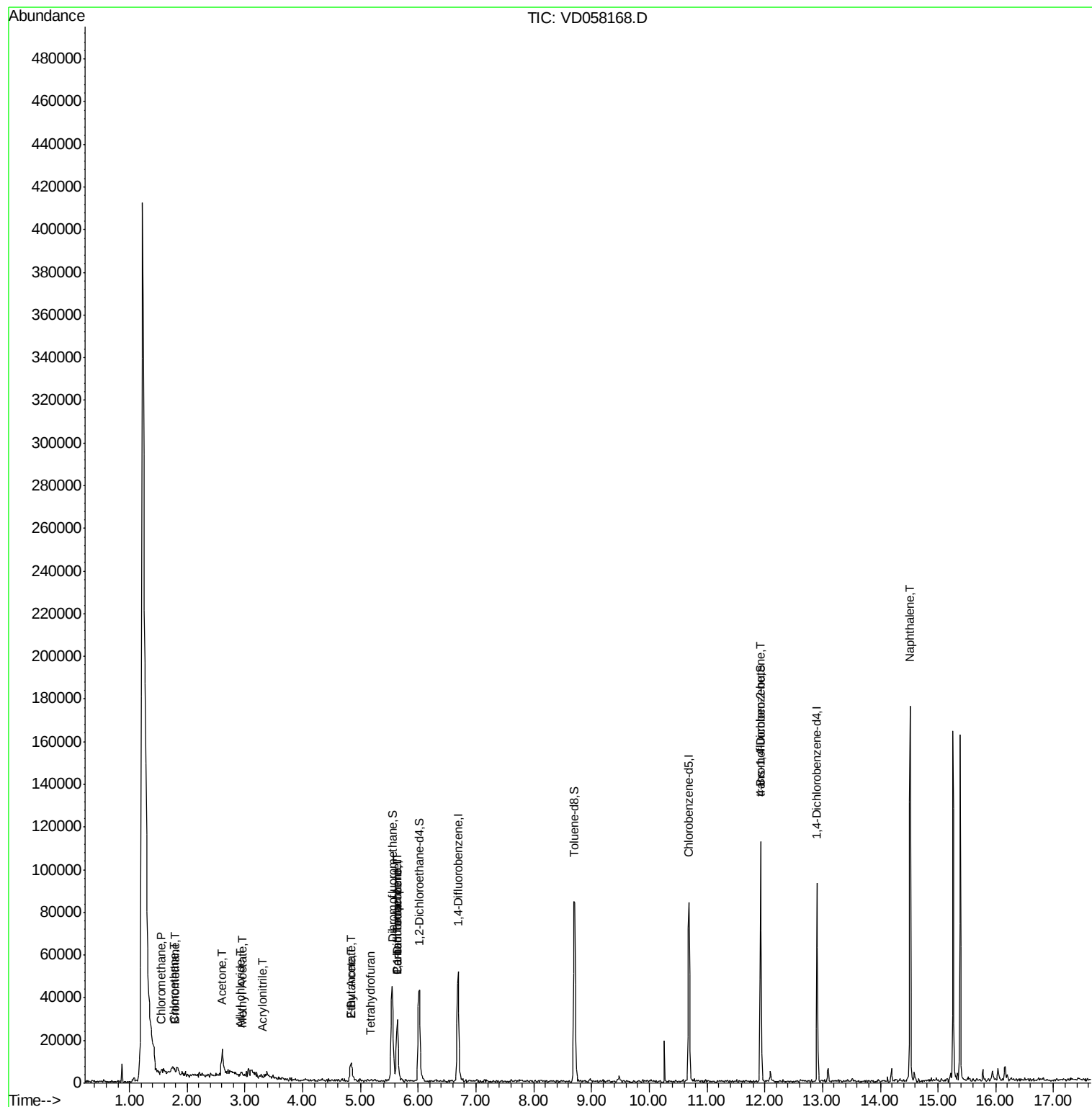
						Qvalue
3) Chloromethane	1.55	50	270	1.382	ug/l #	41
5) Bromomethane	1.79	94	393	5.303	ug/l #	3
6) Chloroethane	1.78	64	185	2.480	ug/l #	46
14) Allyl chloride	2.93	41	526	1.924	ug/l #	70
15) Acrylonitrile	3.30	53	180	3.888	ug/l #	15
16) Acetone	2.61	43	19476	457.550	ug/l #	78
18) Methyl Acetate	2.95	43	1229	14.925	ug/l #	66
20) Methylene Chloride	3.07	84	492	Below Cal	#	82
25) 2-Butanone	4.83	43	1009	10.430	ug/l #	64
29) Tetrahydrofuran	5.17	42	181	3.569	ug/l #	39
36) 1,1-Dichloropropene	5.64	75	2361	4.157	ug/l #	45
37) Ethyl Acetate	4.83	43	1009	3.256	ug/l #	72
38) Carbon Tetrachloride	5.64	117	2452	4.381	ug/l #	12
81) trans-1,4-Dichloro-2-buten	11.93	75	14994	199.595	ug/l #	6
82) 4-Chlorotoluene	12.33	91	179	Below Cal	#	50
89) n-Butylbenzene	13.10	91	340	Below Cal	#	30
95) Naphthalene	14.52	128	108626	166.641	ug/l	98

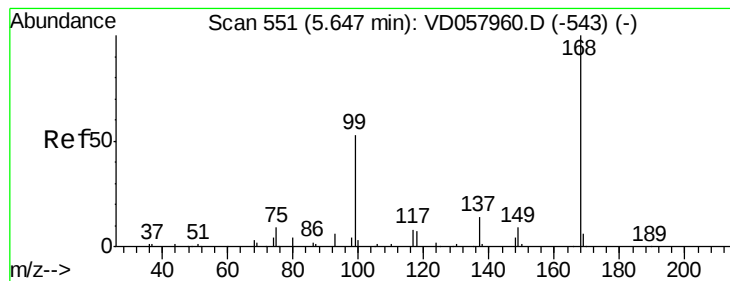
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

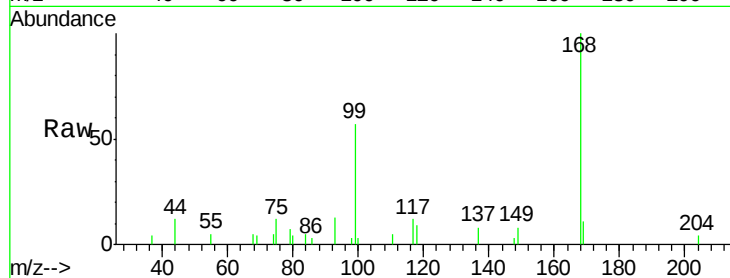
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 29552

Ion Ratio Lower Upper

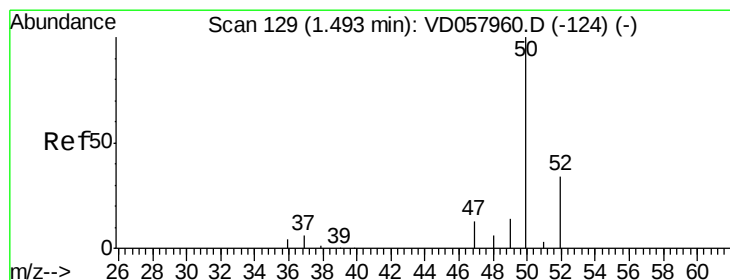
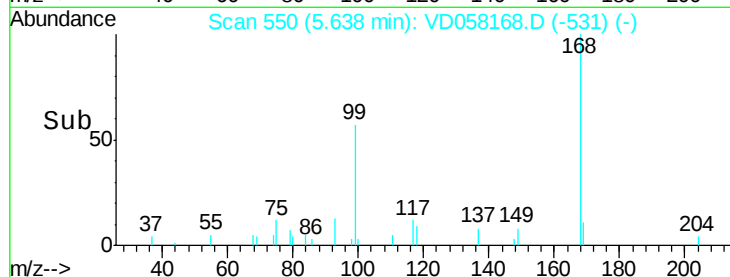
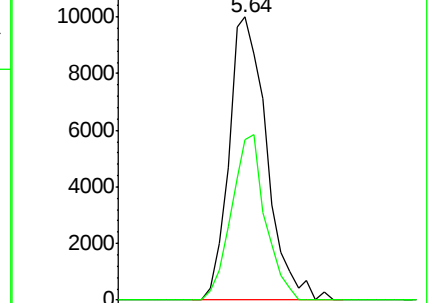
168 100

99 56.7 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.382 ug/l

RT: 1.55 min Scan# 135

Delta R.T. 0.06 min

Lab File: VD058168.D

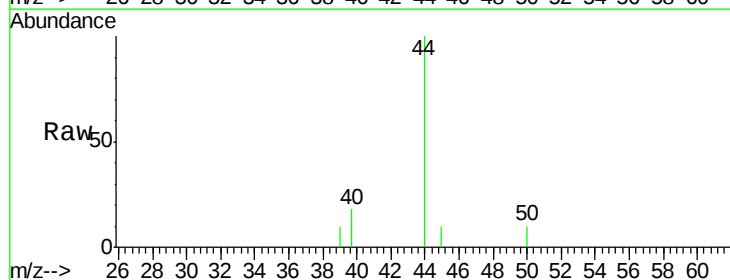
Acq: 15 Jun 2018 22:46

Tgt Ion: 50 Resp: 270

Ion Ratio Lower Upper

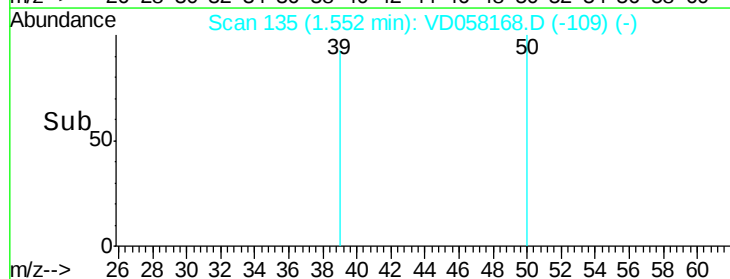
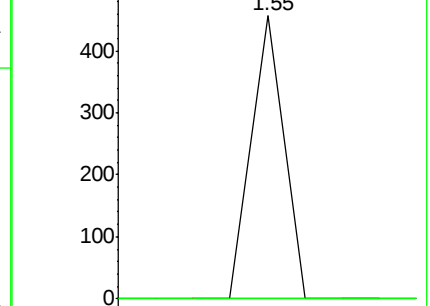
50 100

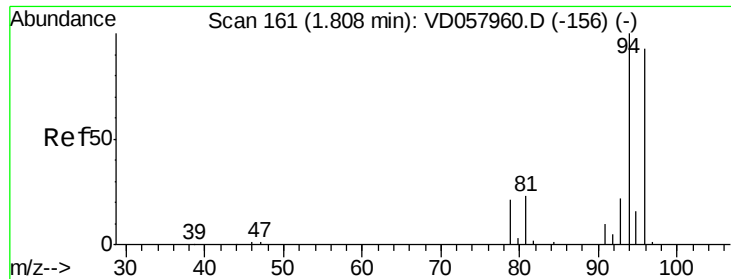
52 0.0 27.2 40.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 5.303 ug/l

RT: 1.79 min Scan# 159

Delta R.T. -0.02 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :

MSVOA_D

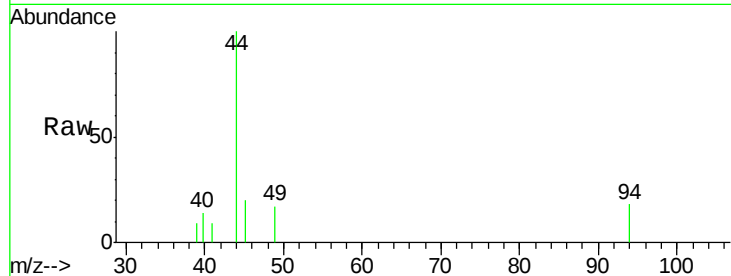
ClientSampled :

Tot Ion: 94 Resp: 393

Ion Ratio Lower Upper

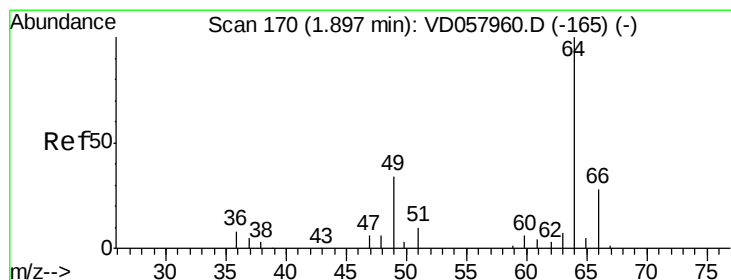
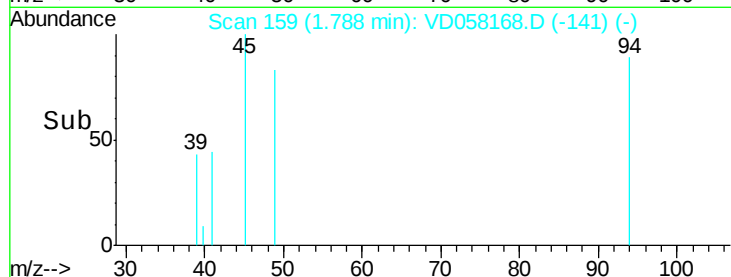
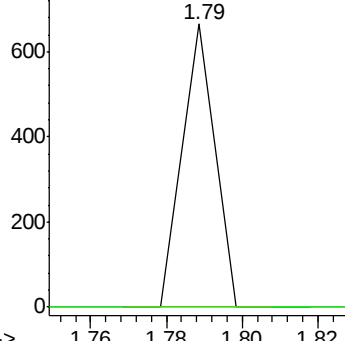
94 100

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



#6

Chloroethane

Concen: 2.480 ug/l

RT: 1.78 min Scan# 158

Delta R.T. -0.12 min

Lab File: VD058168.D

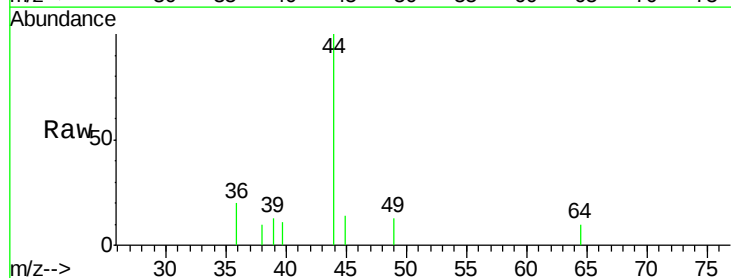
Acq: 15 Jun 2018 22:46

Tgt Ion: 64 Resp: 185

Ion Ratio Lower Upper

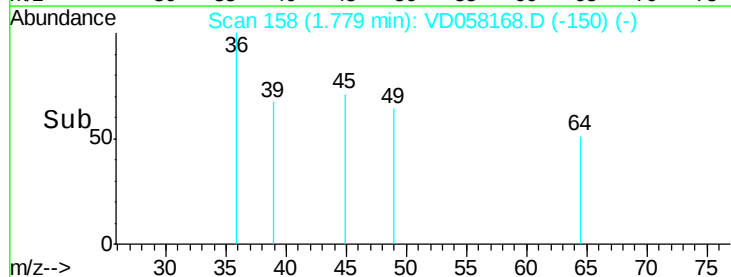
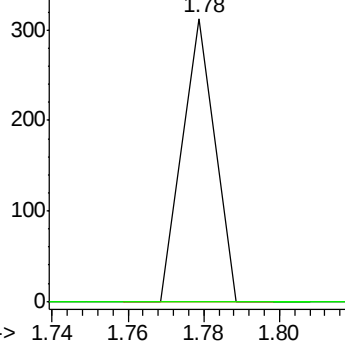
64 100

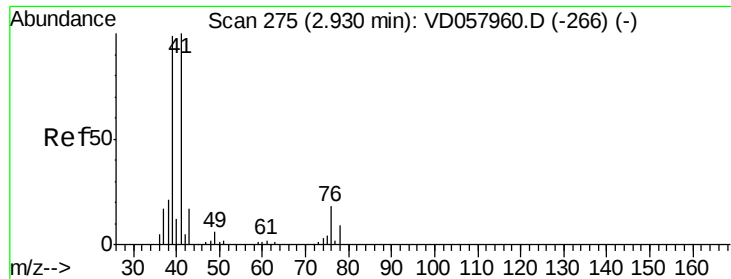
66 0.0 22.8 34.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#14

Allvl chloride

Concen: 1.924 ug/l

RT: 2.93 min Scan# 275

Delta R.T. 0.00 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :

MSVOA_D

ClientSampleId :

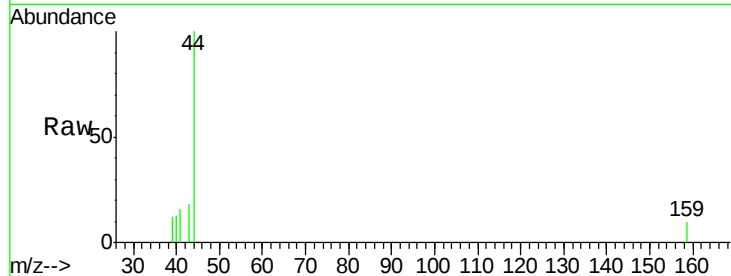
Tot Ion: 41 Resp: 526

Ion Ratio Lower Upper

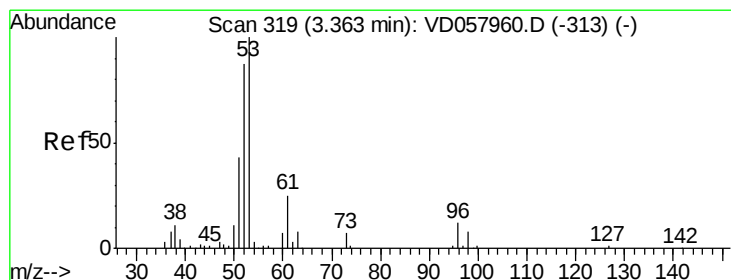
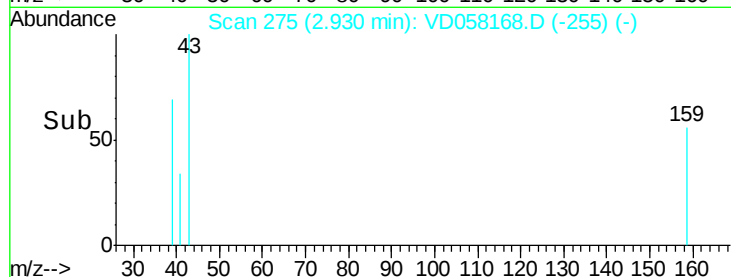
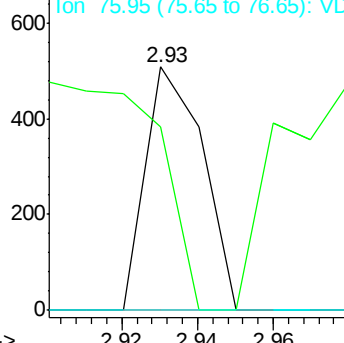
41 100

39 75.4 79.5 119.3#

76 0.0 20.7 31.1#



Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC



#15

Acrylonitrile

Concen: 3.888 ug/l

RT: 3.30 min Scan# 313

Delta R.T. -0.06 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

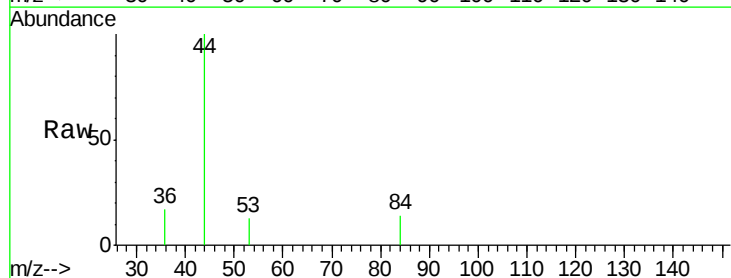
Tgt Ion: 53 Resp: 180

Ion Ratio Lower Upper

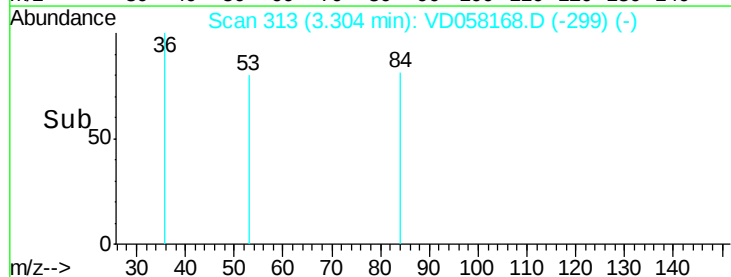
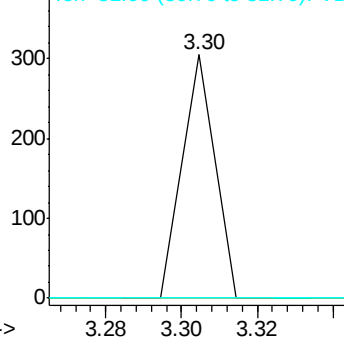
53 100

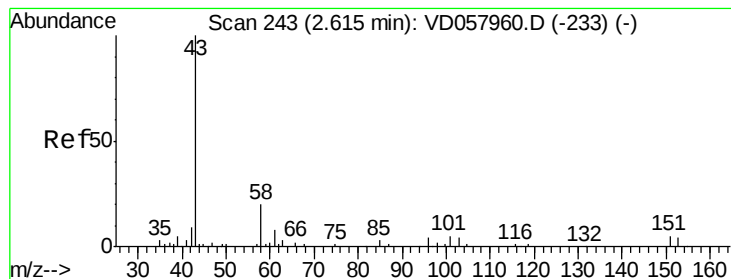
52 0.0 69.9 104.9#

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





#16

Acetone

Concen: 457.550 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :

MSVOA_D

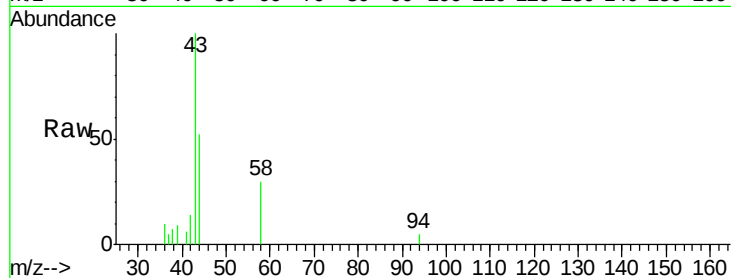
ClientSampleId :

Tot Ion: 43 Resp: 19476

Ion Ratio Lower Upper

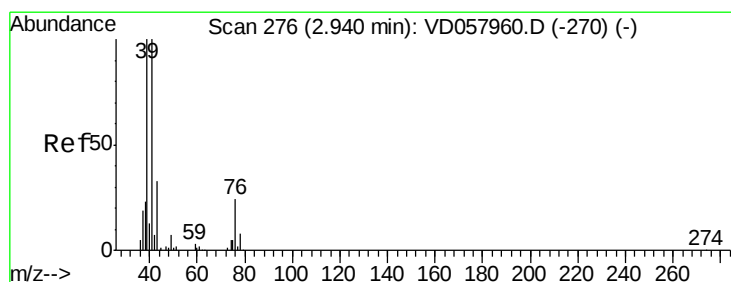
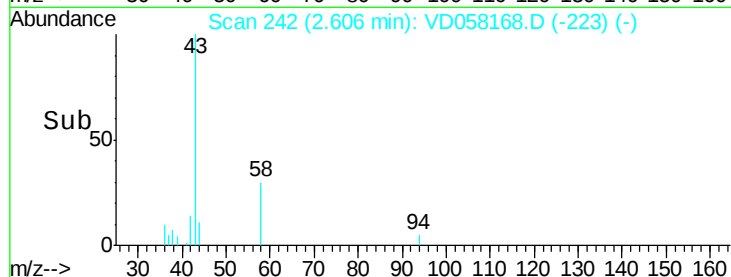
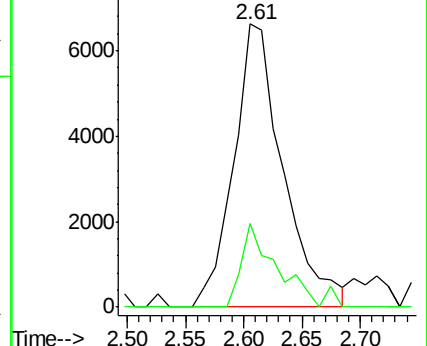
43 100

58 29.8 15.8 23.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 14.925 ug/l

RT: 2.95 min Scan# 277

Delta R.T. 0.01 min

Lab File: VD058168.D

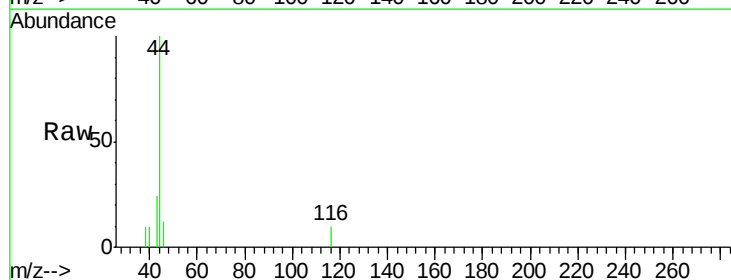
Acq: 15 Jun 2018 22:46

Tgt Ion: 43 Resp: 1229

Ion Ratio Lower Upper

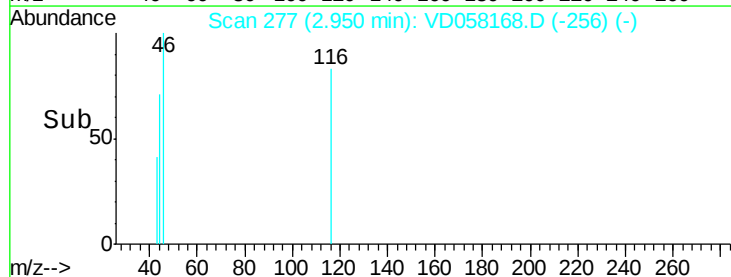
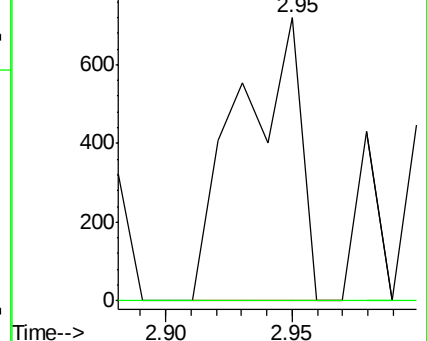
43 100

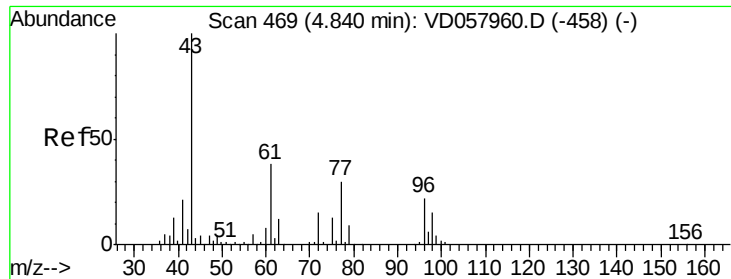
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 10.430 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :

MSVOA_D

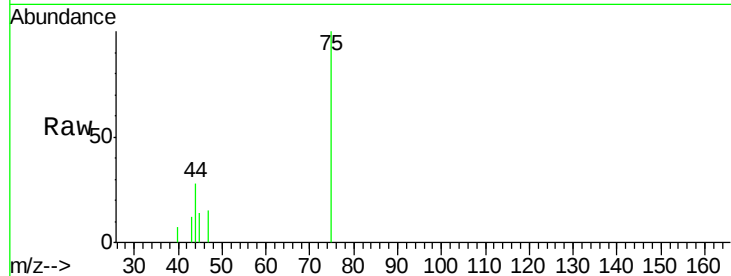
ClientSampleId :

Tot Ion: 43 Resp: 1009

Ion Ratio Lower Upper

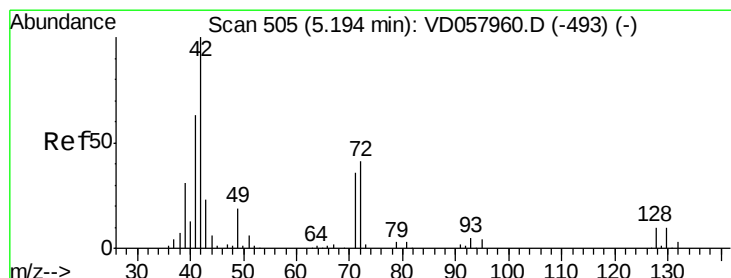
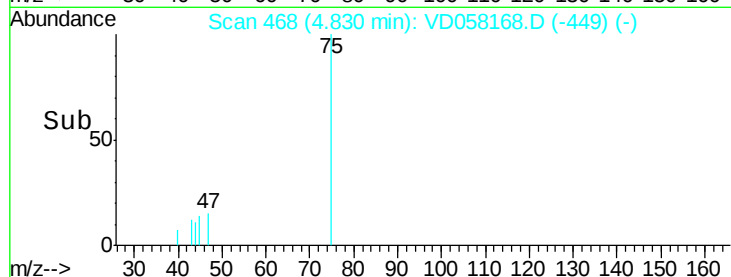
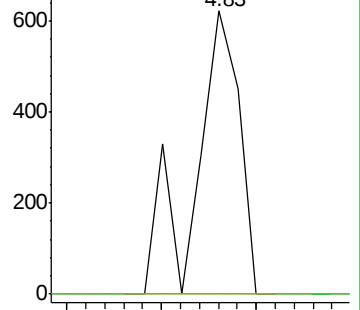
43 100

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: 3.569 ug/l

RT: 5.17 min Scan# 502

Delta R.T. -0.03 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

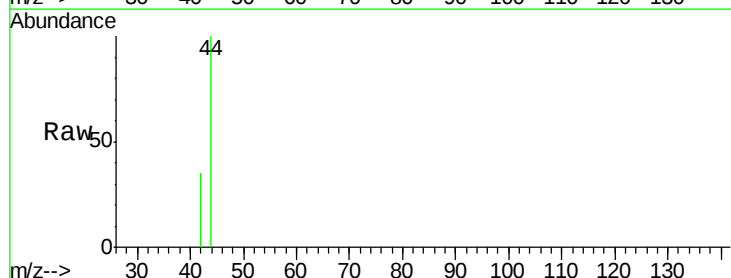
Tgt Ion: 42 Resp: 181

Ion Ratio Lower Upper

42 100

72 0.0 28.5 42.7#

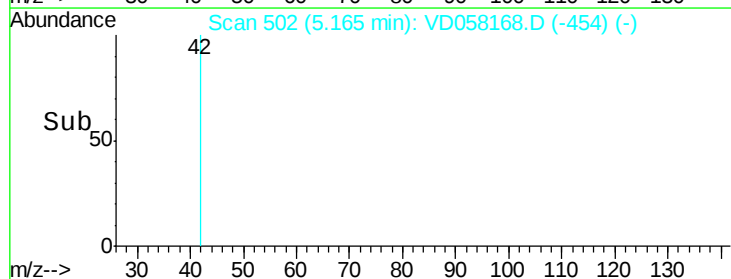
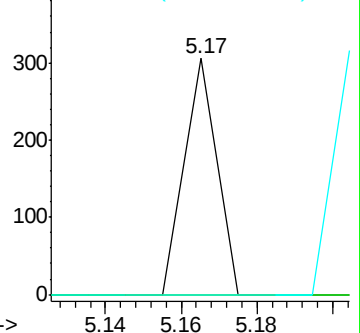
71 0.0 27.9 41.9#

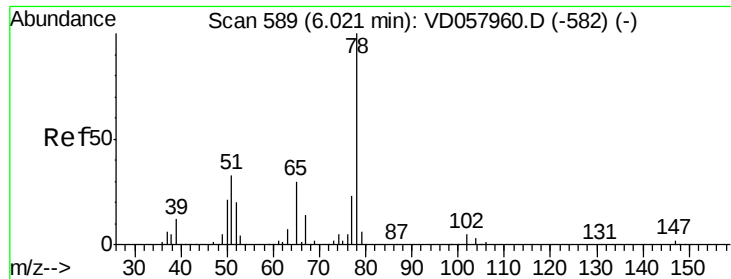


Abundance Ion 42.00 (41.70 to 42.70): VDC

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: 6.02 min Scan# 589

Delta R.T. 0.00 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :

MSVOA_D

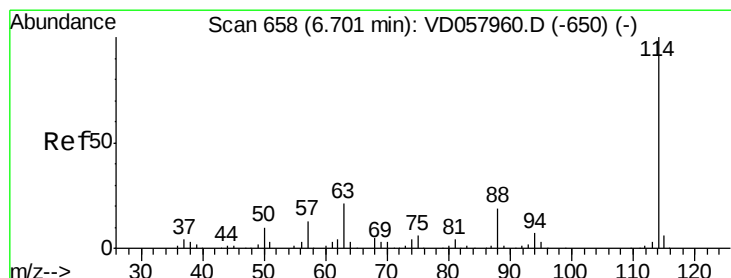
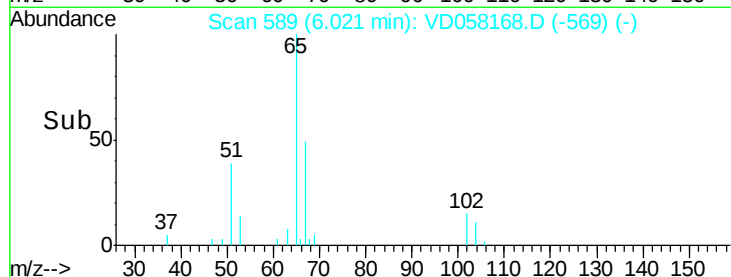
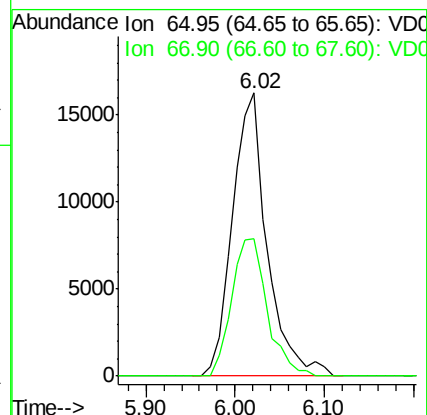
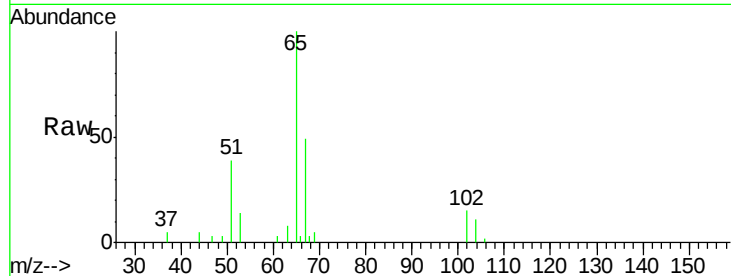
ClientSampleId :

Tot Ion: 65 Resp: 44097

Ion Ratio Lower Upper

65 100

67 48.5 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: VD058168.D

Acq: 15 Jun 2018 22:46

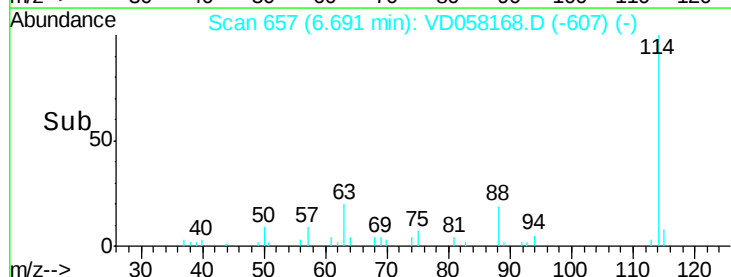
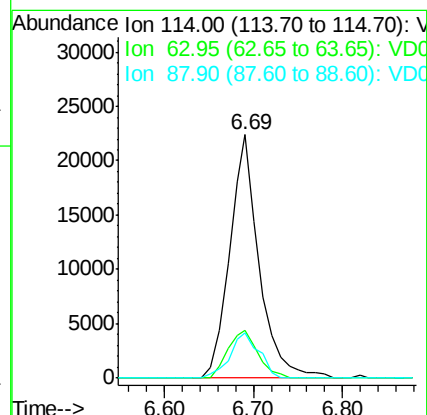
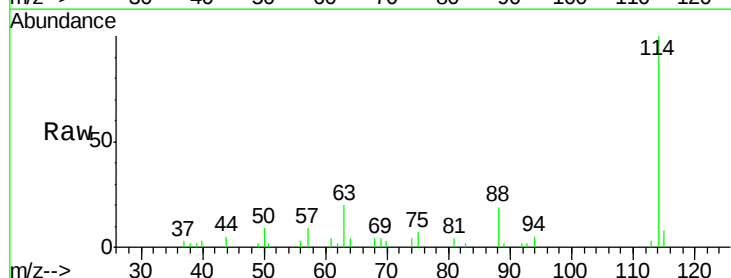
Tgt Ion: 114 Resp: 51550

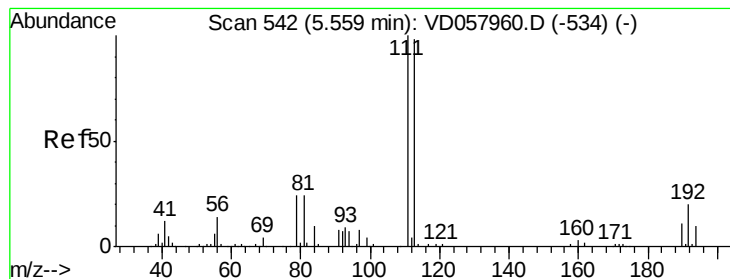
Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.8

88 18.7 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: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :
MSVOA_D
ClientSampleId :

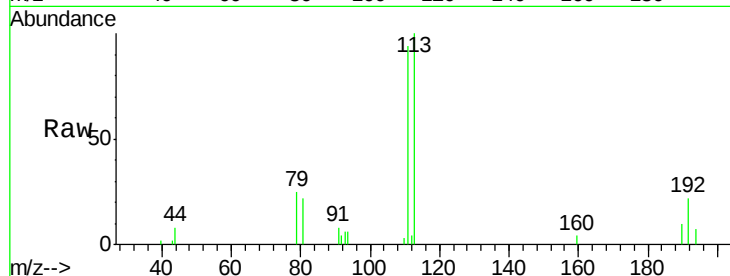
Tot Ion:113 Resp: 33672

Ion Ratio Lower Upper

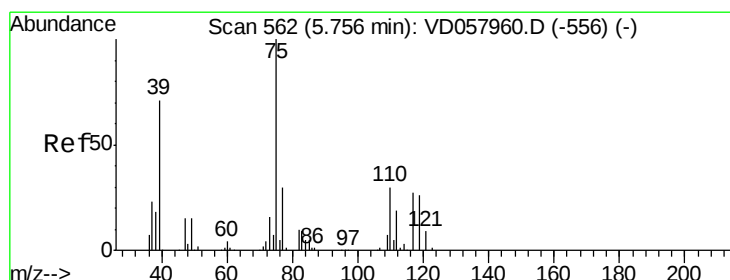
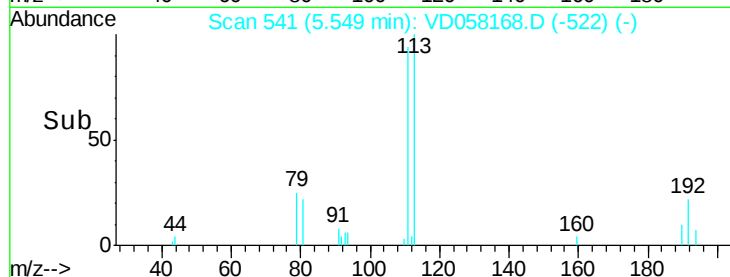
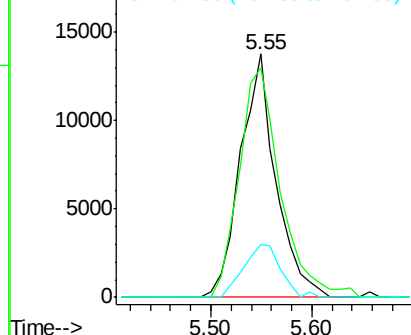
113 100

111 94.3 81.5 122.3

192 21.6 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: 4.157 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.12 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

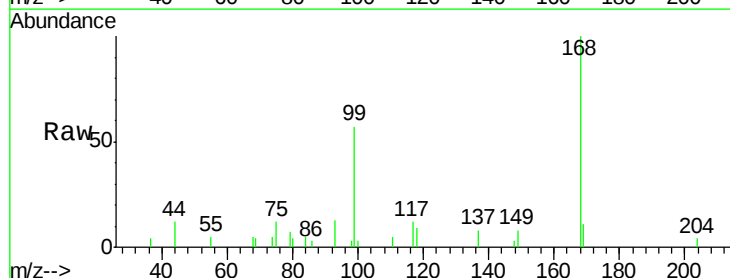
Tgt Ion: 75 Resp: 2361

Ion Ratio Lower Upper

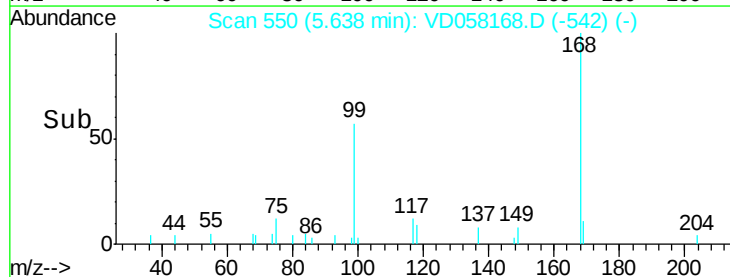
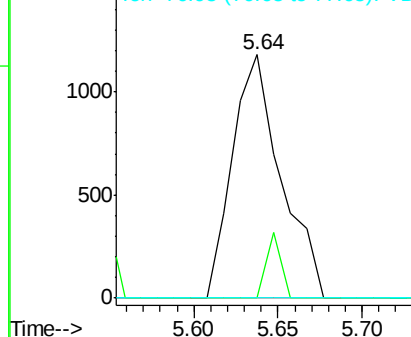
75 100

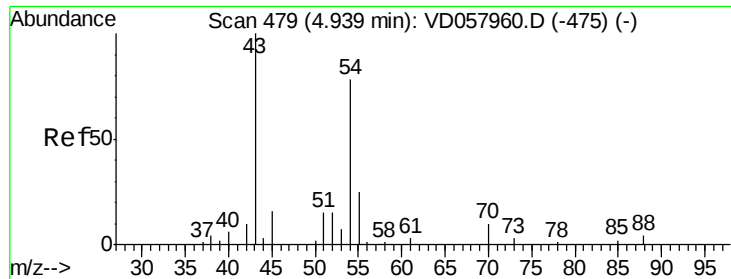
110 0.0 14.8 44.3#

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

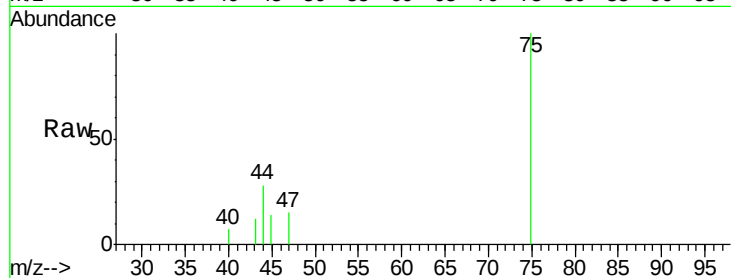




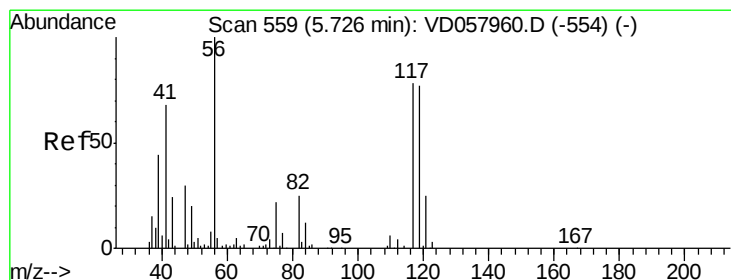
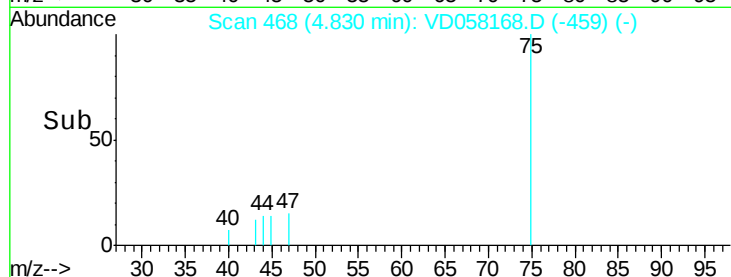
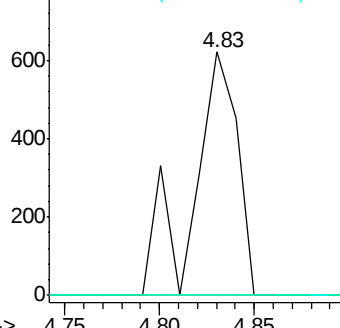
#37
Ethyl Acetate
Concen: 3.256 ug/l
RT: 4.83 min Scan# 468
Delta R.T. -0.11 min
Lab File: VD058168.D
Acq: 15 Jun 2018 22:46

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 1009
Ion Ratio Lower Upper
43 100
61 0.0 9.9 14.9#
70 0.0 5.7 8.5#

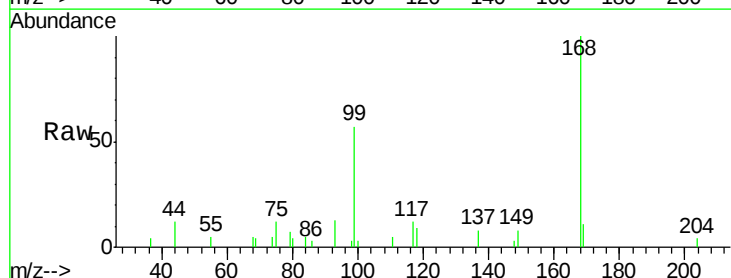


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

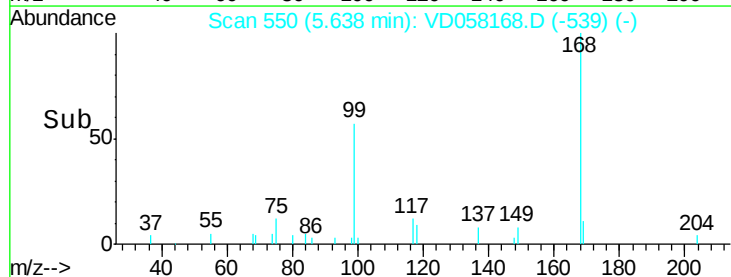
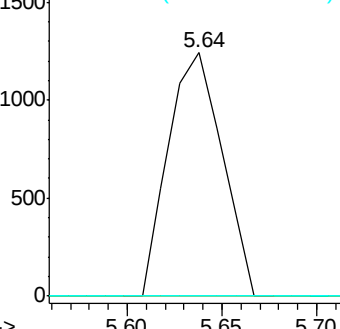


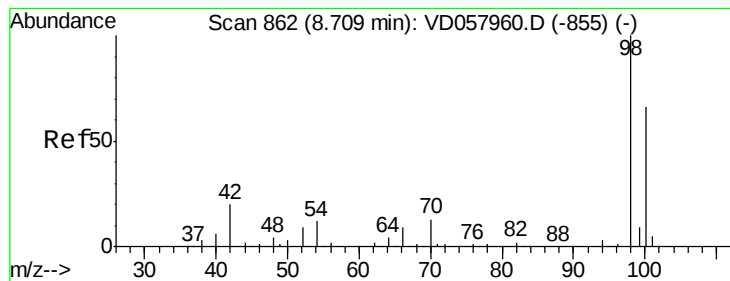
#38
Carbon Tetrachloride
Concen: 4.381 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.09 min
Lab File: VD058168.D
Acq: 15 Jun 2018 22:46

Tgt Ion: 117 Resp: 2452
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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

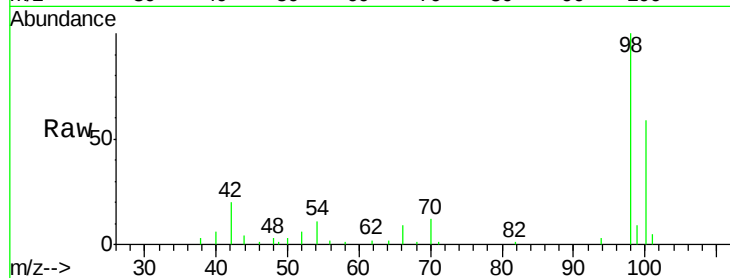
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 68907

Ion Ratio Lower Upper

98 100

100 58.8 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): VD057960.D (-855) (-)

Ion 100.05 (99.75 to 100.75): VD057960.D (-855) (-)

8.70

30000

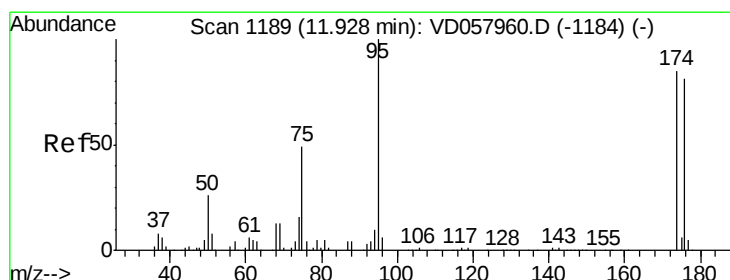
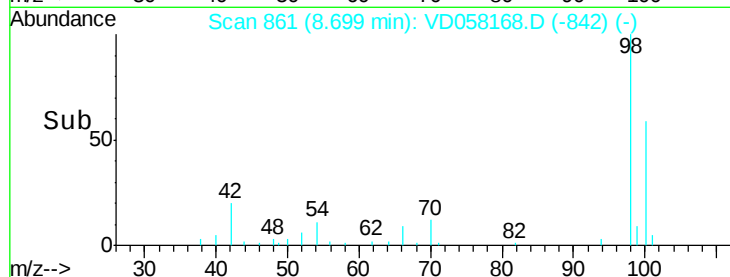
20000

10000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

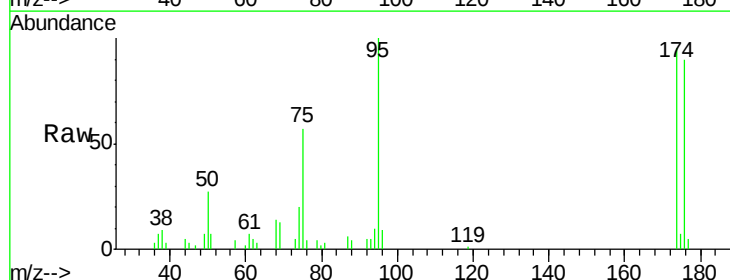
Tgt Ion: 95 Resp: 28328

Ion Ratio Lower Upper

95 100

174 94.8 0.0 169.4

176 90.4 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): VD057960.D (-1184) (-)

Ion 173.90 (173.60 to 174.60): VD057960.D (-1184) (-)

Ion 175.90 (175.60 to 176.60): VD057960.D (-1184) (-)

11.93

25000

20000

15000

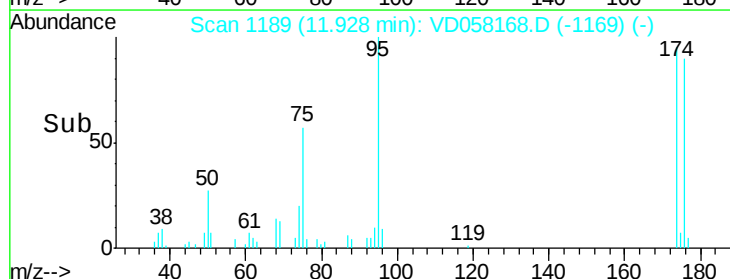
10000

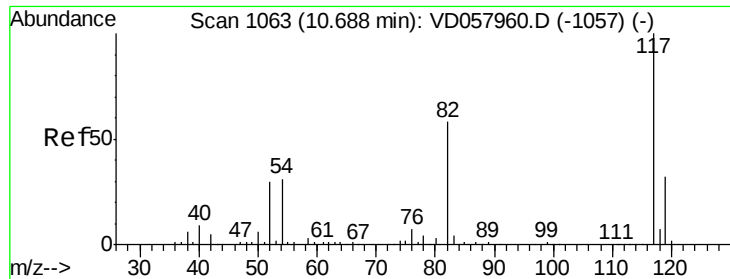
5000

0

11.85 11.90 11.95 12.00

Time-->

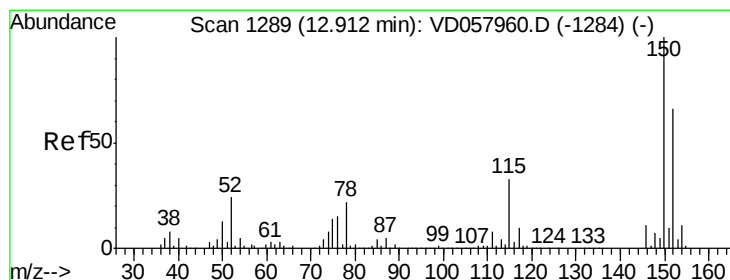
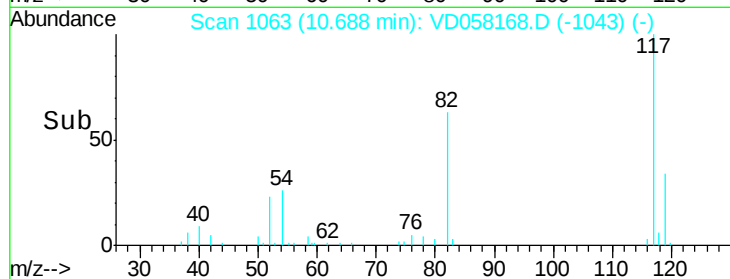
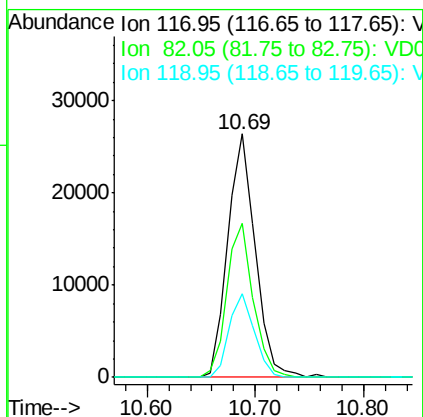
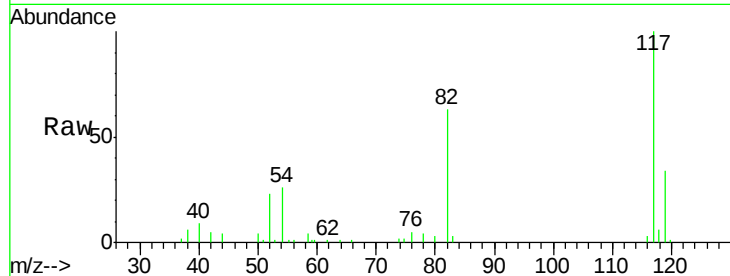




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058168.D
Acq: 15 Jun 2018 22:46

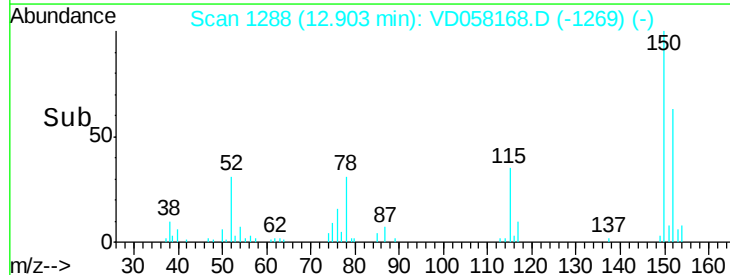
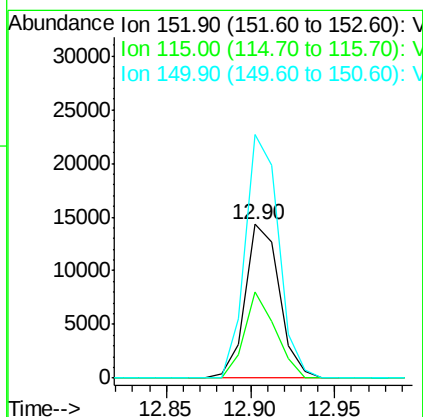
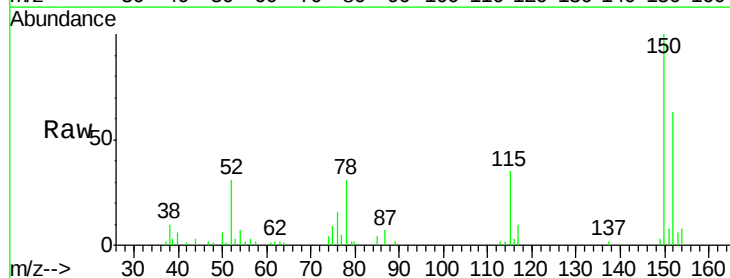
Instrument :
MSVOA_D
ClientSampleId :

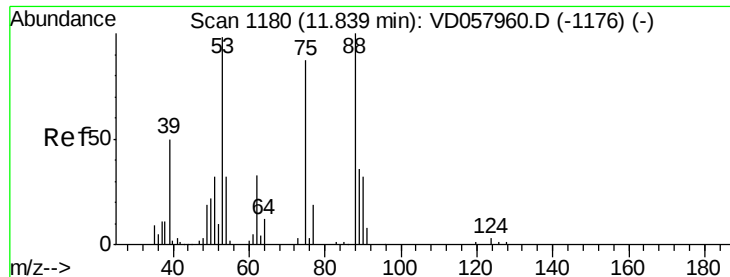
Tot Ion:117 Resp: 46544
Ion Ratio Lower Upper
117 100
82 63.1 46.8 70.2
119 34.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058168.D
Acq: 15 Jun 2018 22:46

Tgt Ion:152 Resp: 20191
Ion Ratio Lower Upper
152 100
115 56.0 25.6 76.6
150 158.3 0.0 306.8





#81

trans-1,4-Dichloro-2-butene

Concen: 199.595 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :

MSVOA_D

ClientSampleId :

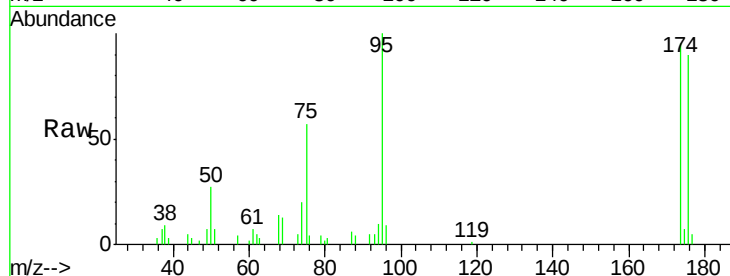
Tot Ion: 75 Resp: 14994

Ion Ratio Lower Upper

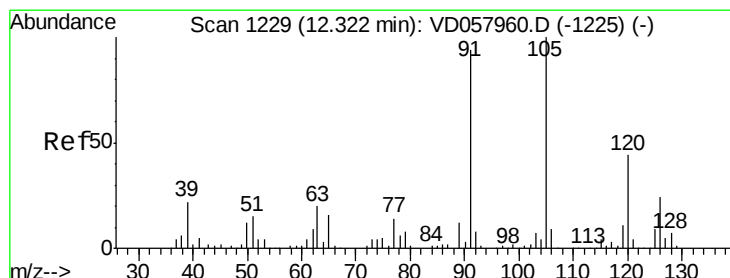
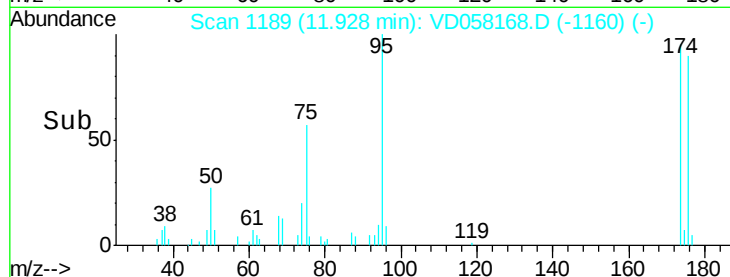
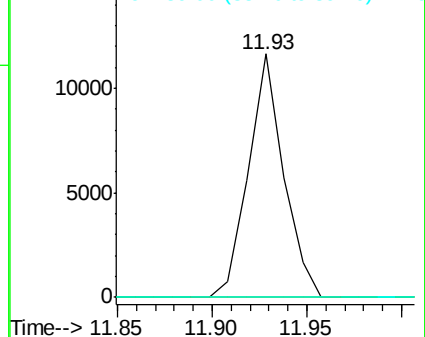
75 100

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: 12.33 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VD058168.D

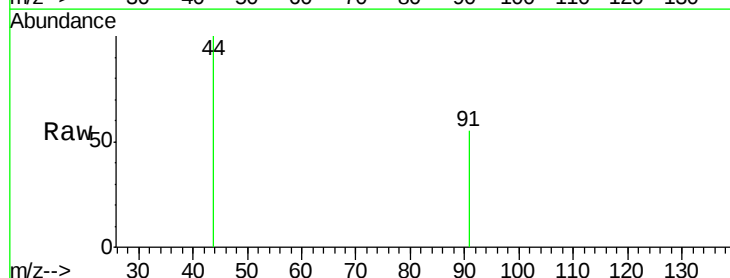
Acq: 15 Jun 2018 22:46

Tgt Ion: 91 Resp: 179

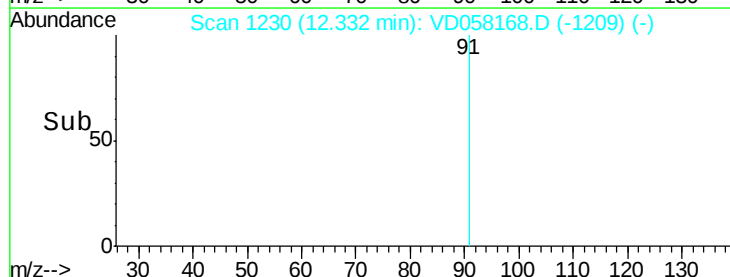
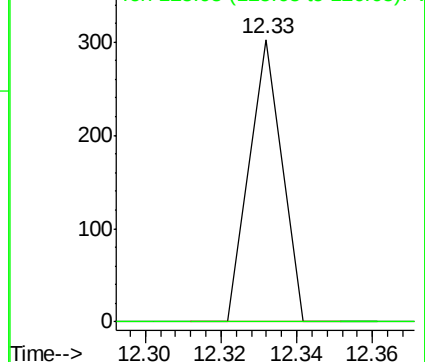
Ion Ratio Lower Upper

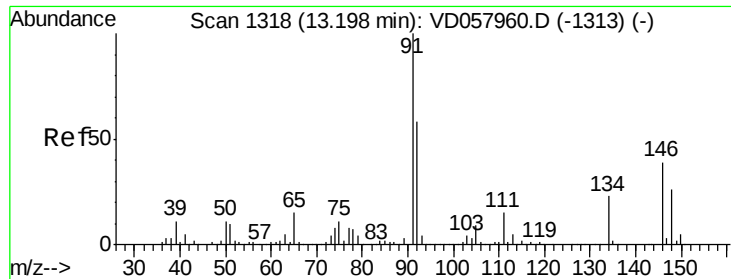
91 100

126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#89

n-Butylbenzene

Concen: Below Cal

RT: 13.10 min Scan# 1308

Delta R.T. -0.10 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

Instrument :

MSVOA_D

ClientSampleId :

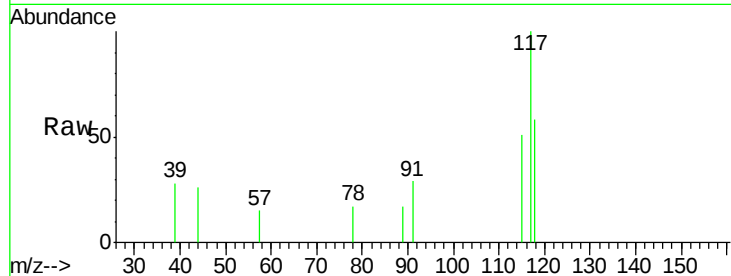
Tot Ion: 91 Resp: 340

Ion Ratio Lower Upper

91 100

92 0.0 29.2 87.6#

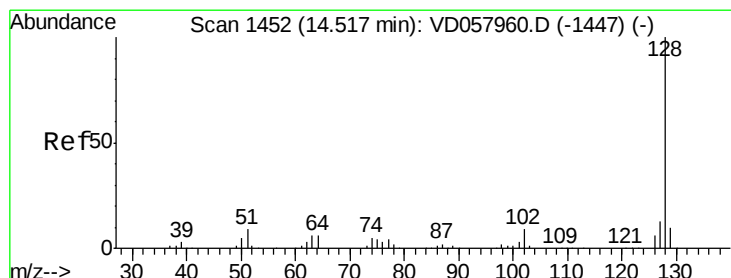
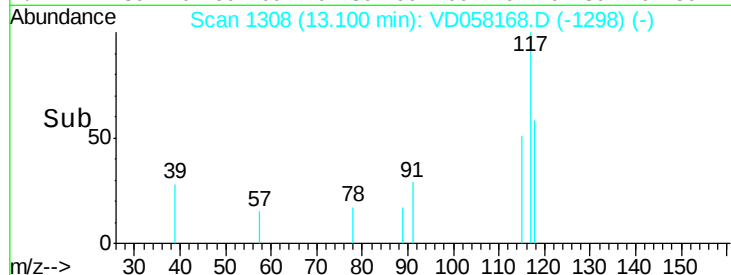
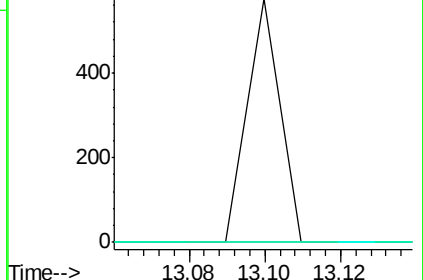
134 0.0 11.3 33.9#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#95

Naphthalene

Concen: 166.641 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058168.D

Acq: 15 Jun 2018 22:46

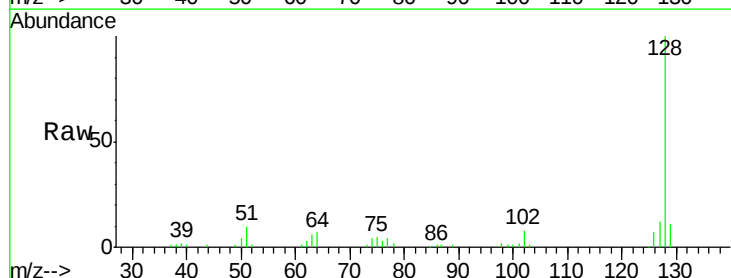
Tgt Ion: 128 Resp: 108626

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.2

129 11.3 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

