

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062818\
 Data File : VD059478.D
 Acq On : 28 Jun 2018 22:32
 Operator : VA/AP
 Sample : J3699-01RE
 Misc : 10.87g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 29 01:29:19 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	5.64	168	543817	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.70	114	712366	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	495475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	151672	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	247145	44.44	ug/l	-0.01
Spiked Amount			Recovery	=	88.88%	
35) Dibromofluoromethane	5.55	113	264923	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	
50) Toluene-d8	8.71	98	506706	37.35	ug/l	0.00
Spiked Amount			Recovery	=	74.70%	
62) 4-Bromofluorobenzene	11.93	95	166623	29.53	ug/l	0.00
Spiked Amount			Recovery	=	59.06%	

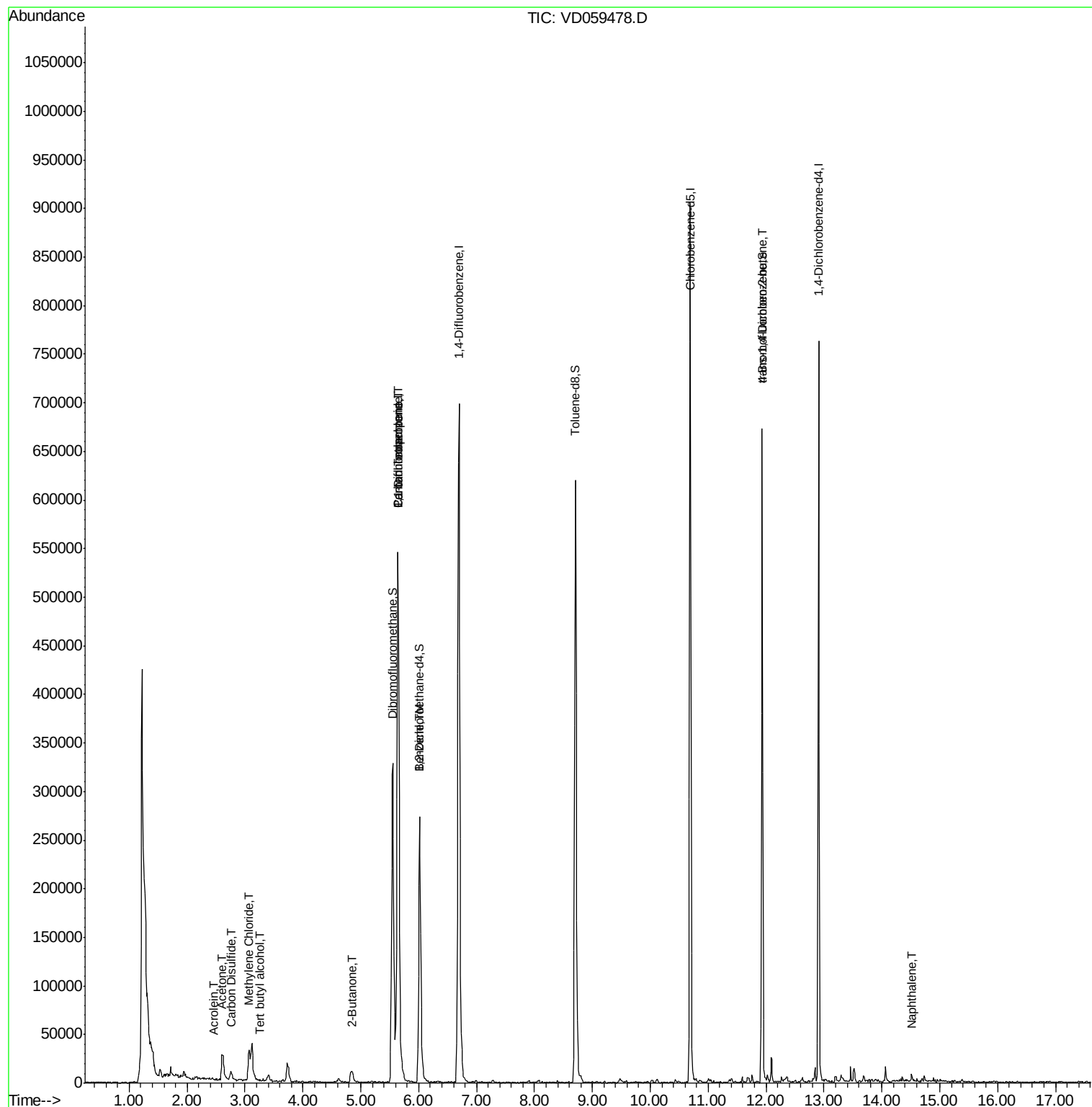
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.82	94	468	Below Cal	#	4
11) Tert butyl alcohol	3.27	59	245	1.273	ug/l #	72
13) Acrolein	2.47	56	193	1.122	ug/l #	16
16) Acetone	2.60	43	62059	88.418	ug/l #	86
17) Carbon Disulfide	2.75	76	12903	2.351	ug/l	97
18) Methyl Acetate	2.93	43	1008	Below Cal	#	66
20) Methylene Chloride	3.06	84	12867	4.331	ug/l	83
25) 2-Butanone	4.84	43	17470	11.882	ug/l	96
31) Cyclohexane	5.64	56	13395	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	43656	6.756	ug/l #	50
38) Carbon Tetrachloride	5.64	117	45580	6.841	ug/l #	16
40) Benzene	6.02	78	24022	1.549	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.93	75	81133	170.623	ug/l #	1
95) Naphthalene	14.51	128	6570	1.357	ug/l #	94

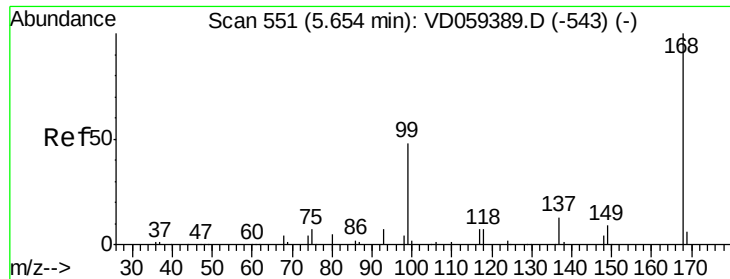
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD059478.D

Acq: 28 Jun 2018 22:32

Instrument :

MSVOA_D

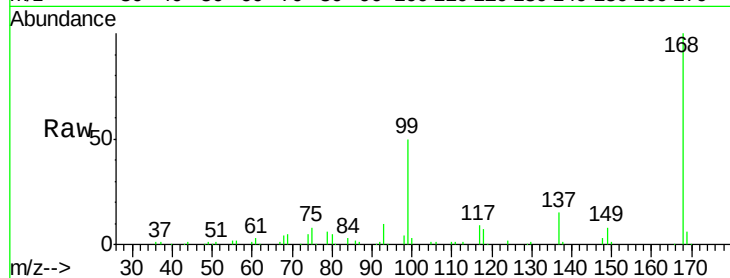
ClientSampleId :

Tot Ion:168 Resp: 543817

Ion Ratio Lower Upper

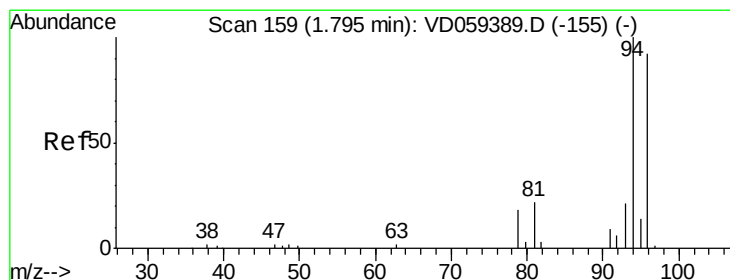
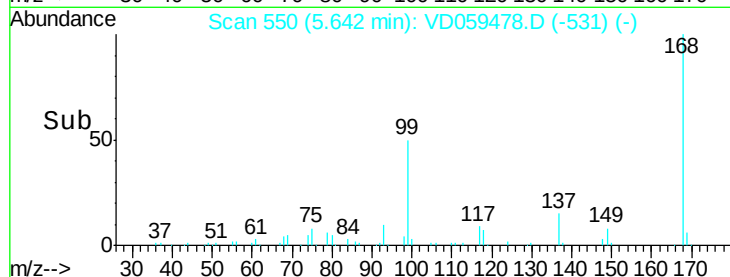
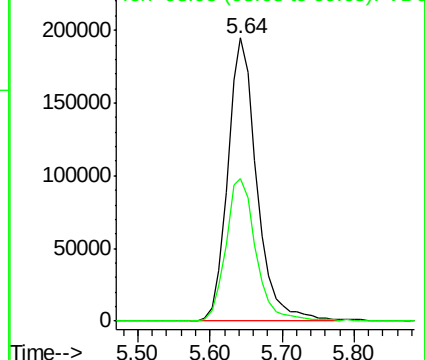
168 100

99 50.4 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 1.82 min Scan# 162

Delta R.T. 0.03 min

Lab File: VD059478.D

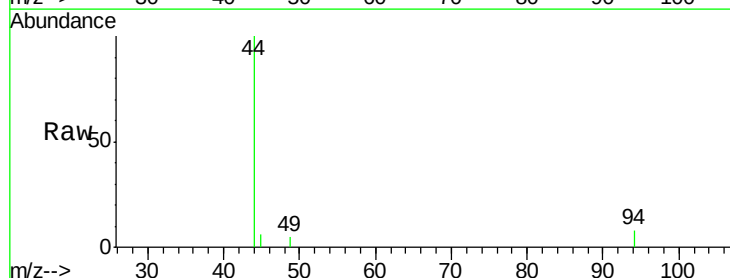
Acq: 28 Jun 2018 22:32

Tgt Ion: 94 Resp: 468

Ion Ratio Lower Upper

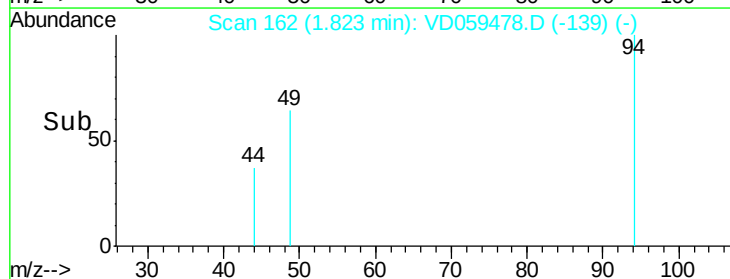
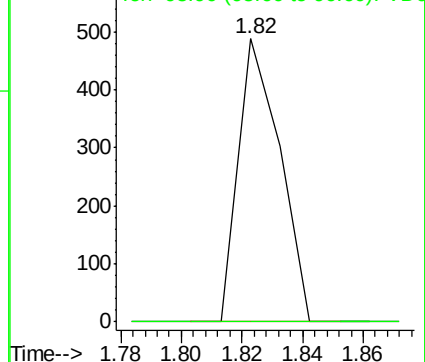
94 100

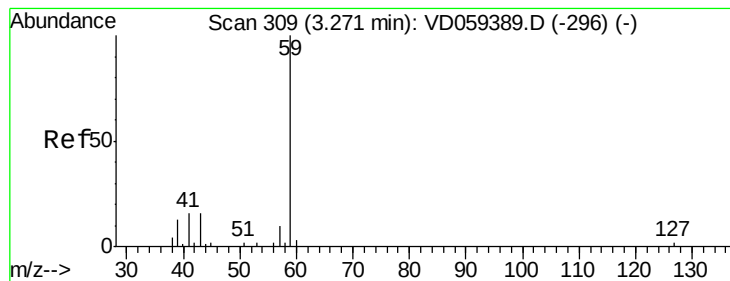
96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#11

Tert butyl alcohol

Concen: 1.273 ug/l

RT: 3.27 min Scan# 309

Delta R.T. -0.00 min

Lab File: VD059478.D

Acq: 28 Jun 2018 22:32

Instrument :

MSVOA_D

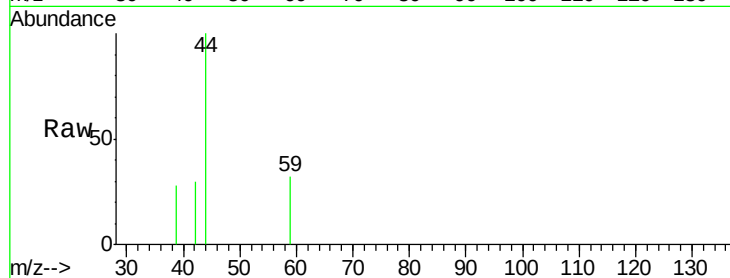
ClientSampleId :

Tot Ion: 59 Resp: 245

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.27

400

300

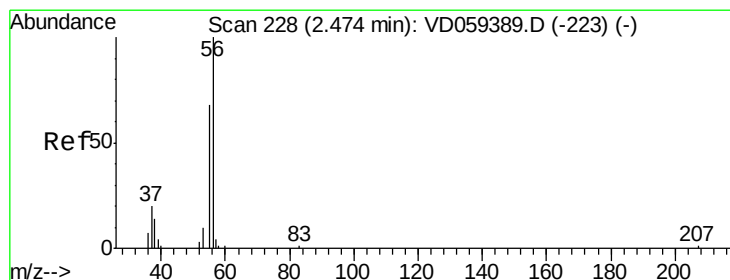
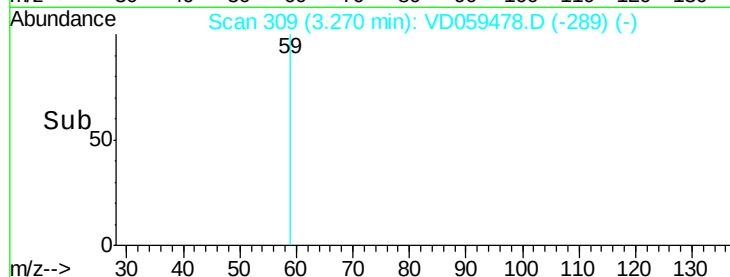
200

100

0

3.24 3.26 3.28 3.30

Time-->



#13

Acrolein

Concen: 1.122 ug/l

RT: 2.47 min Scan# 228

Delta R.T. -0.00 min

Lab File: VD059478.D

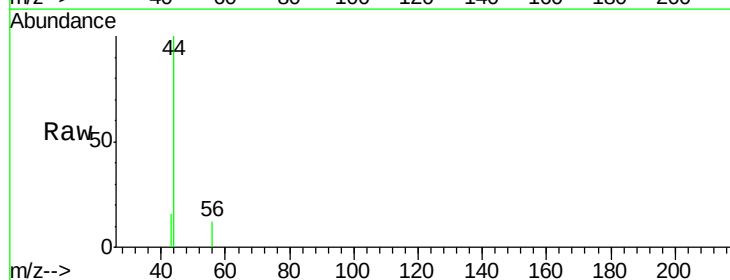
Acq: 28 Jun 2018 22:32

Tgt Ion: 56 Resp: 193

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

500

400

300

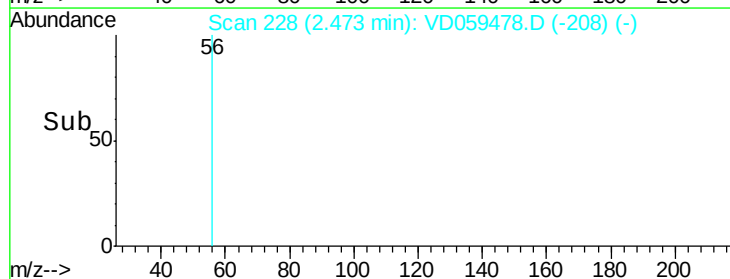
200

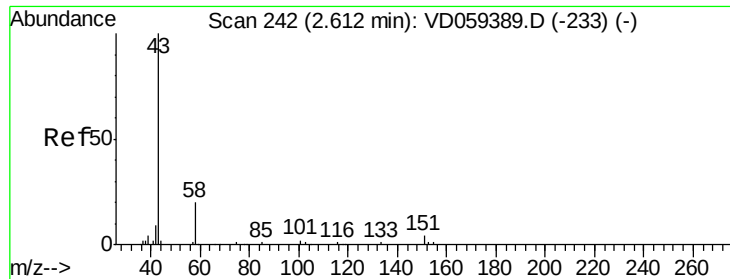
100

0

2.44 2.46 2.48 2.50

Time-->





#16

Acetone

Concen: 88.418 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.01 min

Lab File: VD059478.D

Acq: 28 Jun 2018 22:32

Instrument :

MSVOA_D

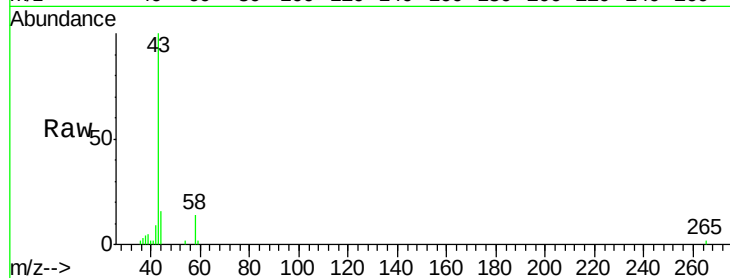
ClientSampleId :

Tot Ion: 43 Resp: 62059

Ion Ratio Lower Upper

43 100

58 14.5 16.8 25.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

20000

15000

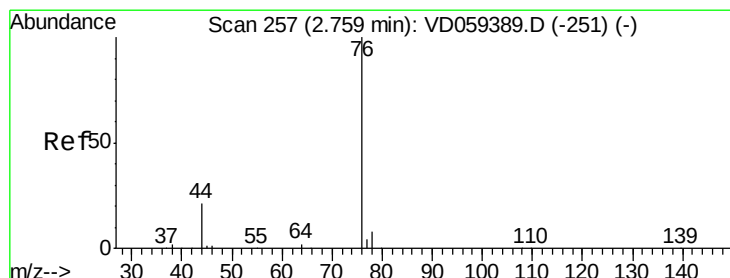
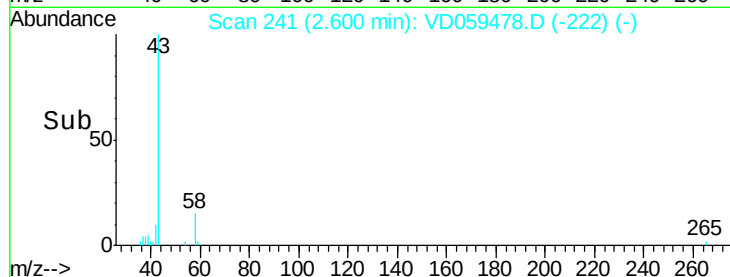
10000

5000

0

2.50 2.60 2.70 2.80

Time-->



#17

Carbon Disulfide

Concen: 2.351 ug/l

RT: 2.75 min Scan# 256

Delta R.T. -0.01 min

Lab File: VD059478.D

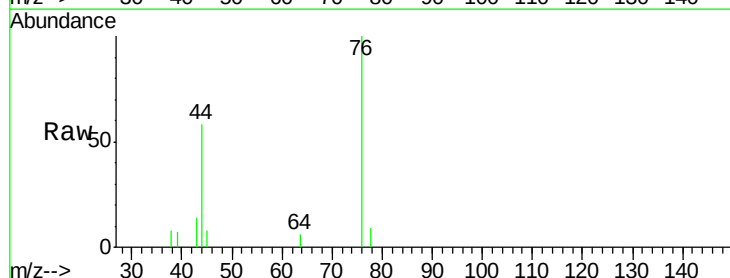
Acq: 28 Jun 2018 22:32

Tgt Ion: 76 Resp: 12903

Ion Ratio Lower Upper

76 100

78 9.4 6.6 9.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

6000

5000

4000

3000

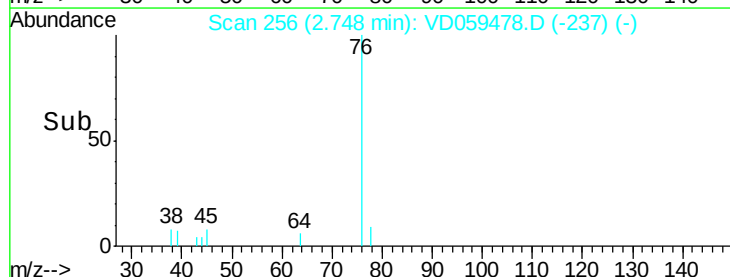
2000

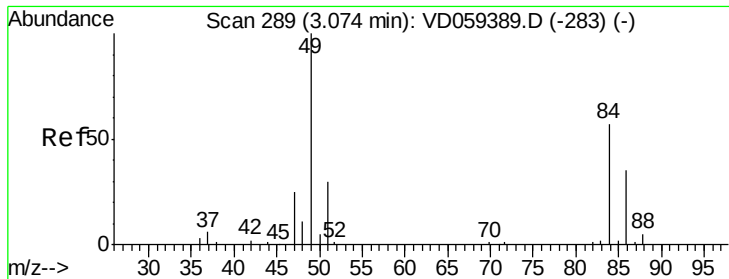
1000

0

2.70 2.80 2.90

Time-->

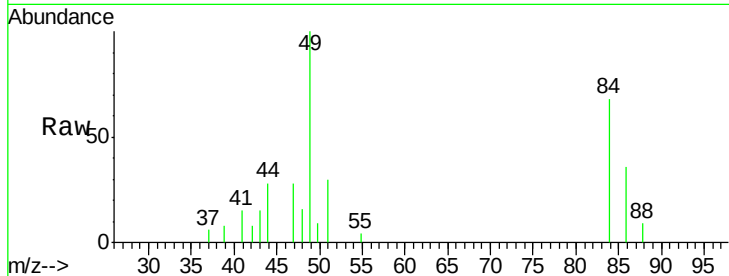




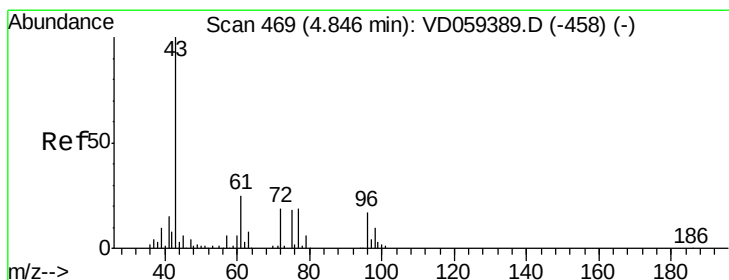
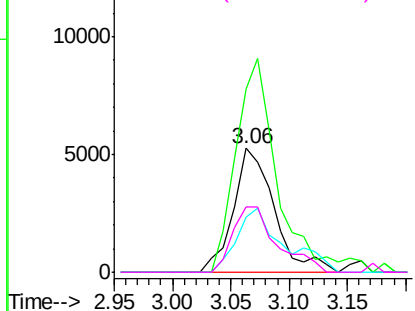
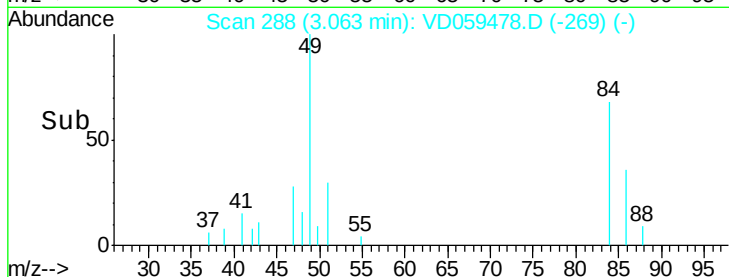
#20
Methvlene Chloride
Concen: 4.331 ug/l
RT: 3.06 min Scan# 288
Delta R.T. -0.01 min
Lab File: VD059478.D
Acq: 28 Jun 2018 22:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 12867
Ion Ratio Lower Upper
84 100
49 147.6 140.3 210.5
51 44.1 41.6 62.4
86 52.4 49.4 74.2

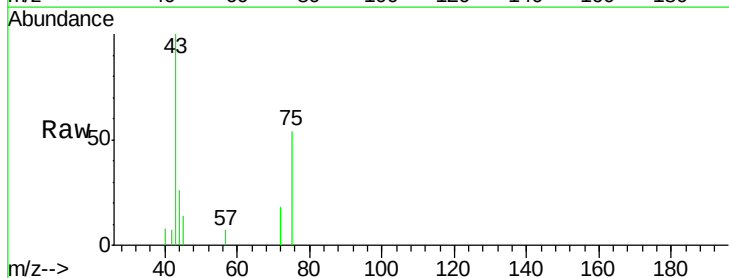


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

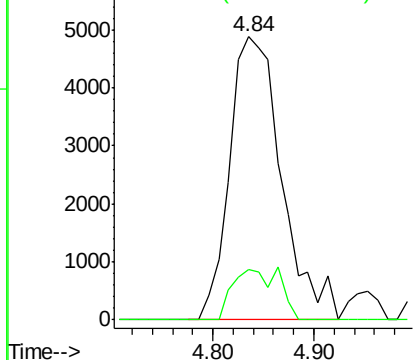
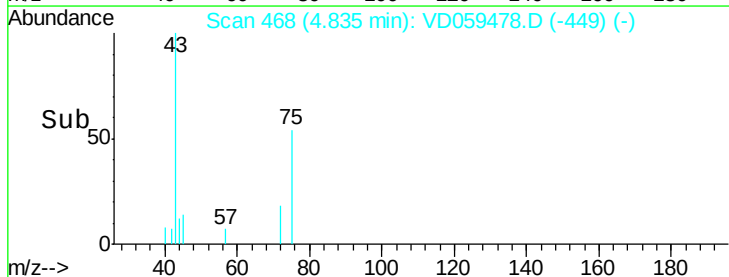


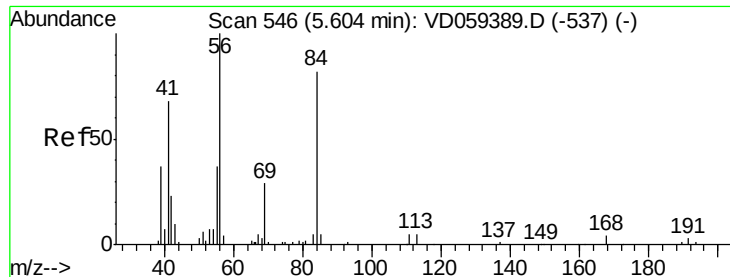
#25
2-Butanone
Concen: 11.882 ug/l
RT: 4.84 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD059478.D
Acq: 28 Jun 2018 22:32

Tgt Ion: 43 Resp: 17470
Ion Ratio Lower Upper
43 100
72 17.7 15.4 23.2



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

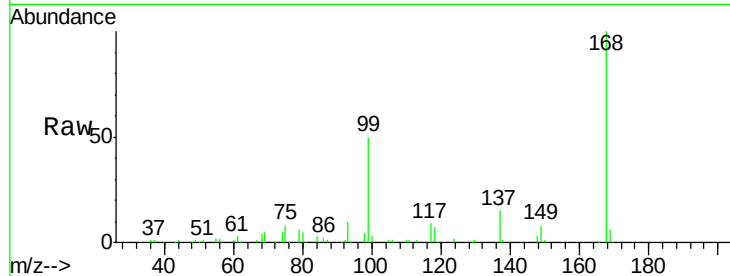




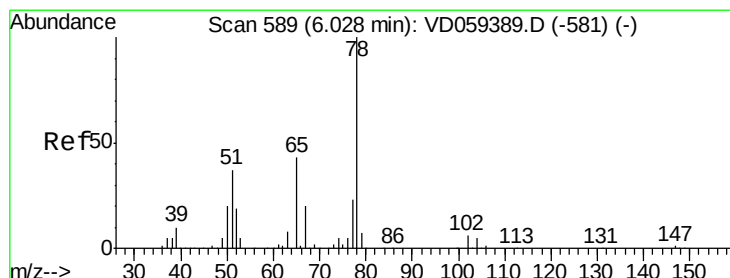
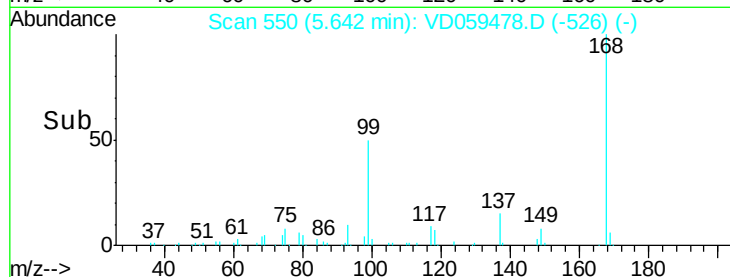
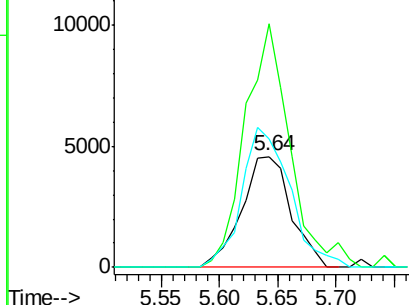
#31
Cyclohexane
Concen: Below Cal
RT: 5.64 min Scan# 550
Delta R.T. 0.04 min
Lab File: VD059478.D
Acq: 28 Jun 2018 22:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 13395
Ion Ratio Lower Upper
56 100
69 219.6 22.9 34.3#
84 115.8 67.3 100.9#

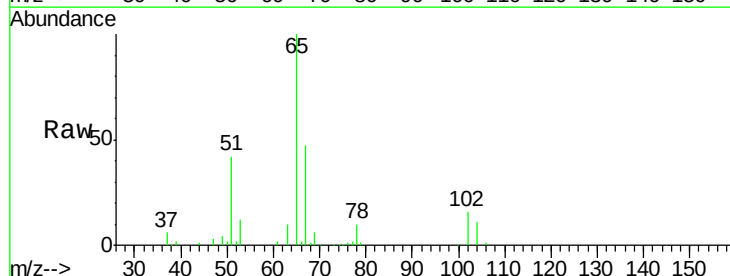


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

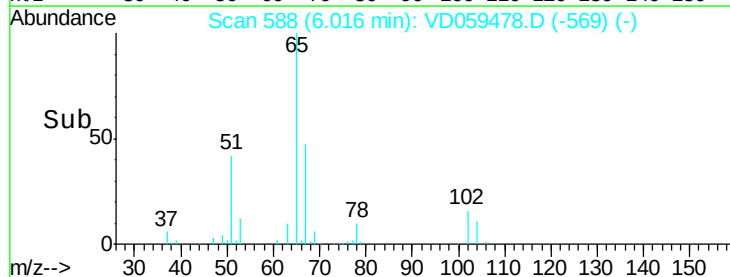
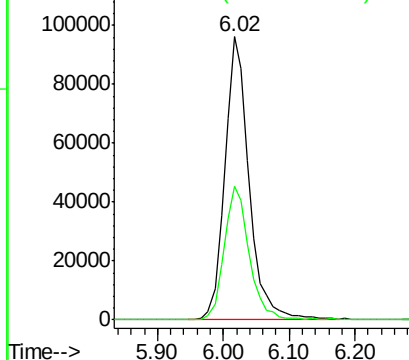


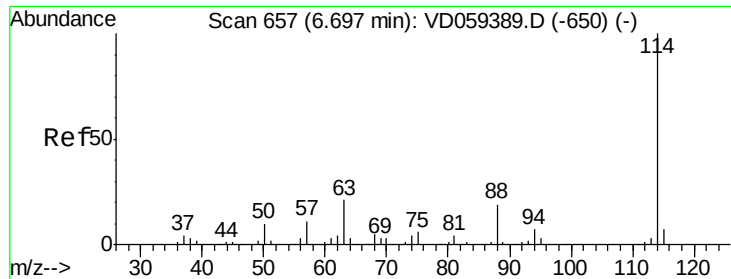
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.02 min Scan# 588
Delta R.T. -0.01 min
Lab File: VD059478.D
Acq: 28 Jun 2018 22:32

Tgt Ion: 65 Resp: 247145
Ion Ratio Lower Upper
65 100
67 47.3 0.0 93.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

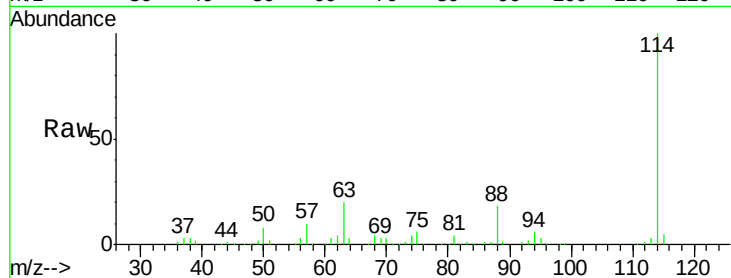




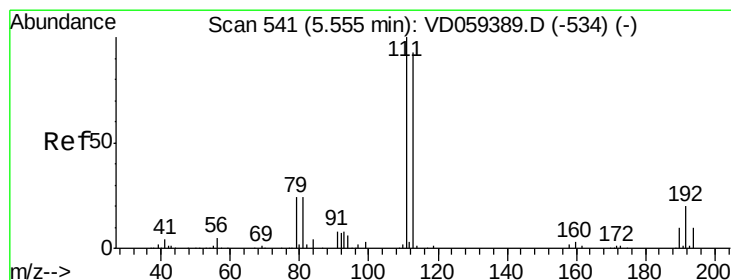
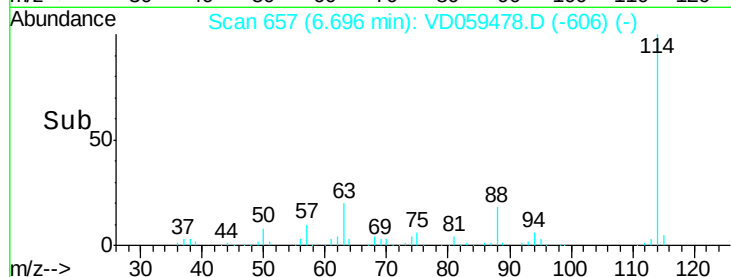
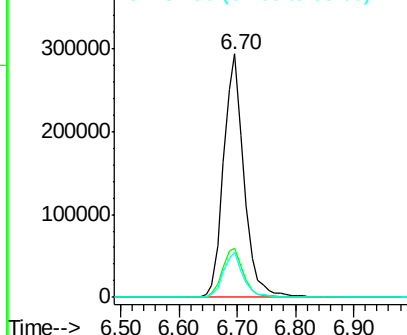
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VD059478.D
Acq: 28 Jun 2018 22:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.4
88	18.4	0.0	38.0

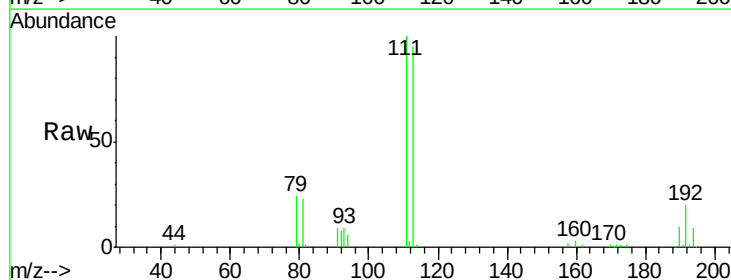


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

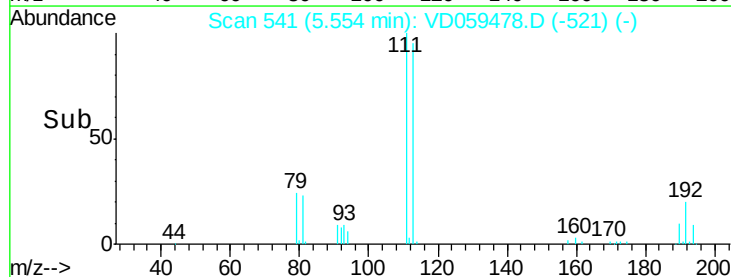
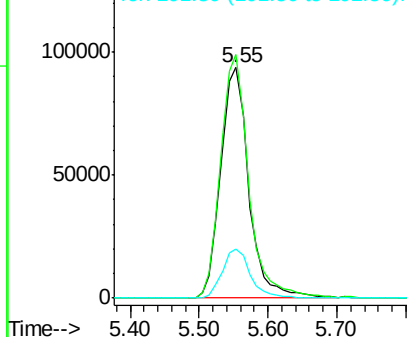


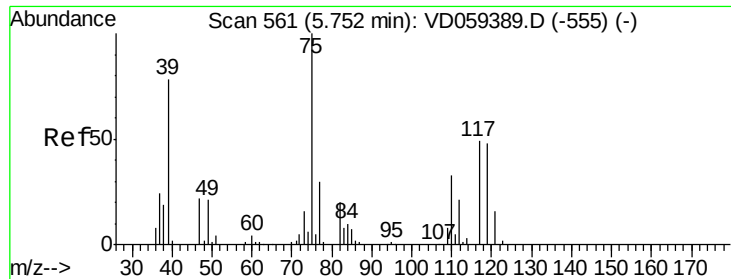
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.55 min Scan# 541
Delta R.T. -0.00 min
Lab File: VD059478.D
Acq: 28 Jun 2018 22:32

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.7	85.7	128.5
192	21.0	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

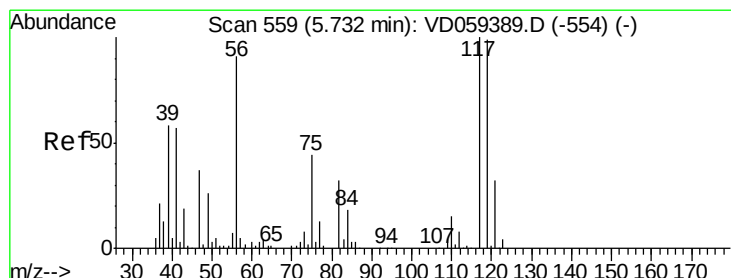
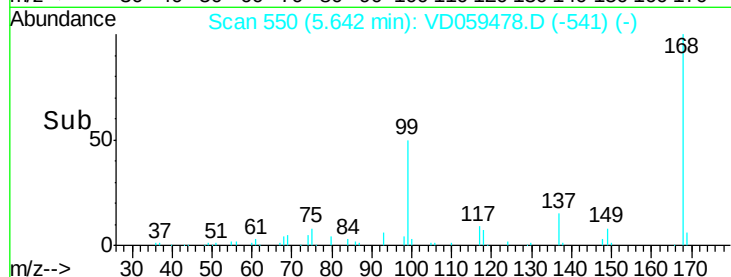
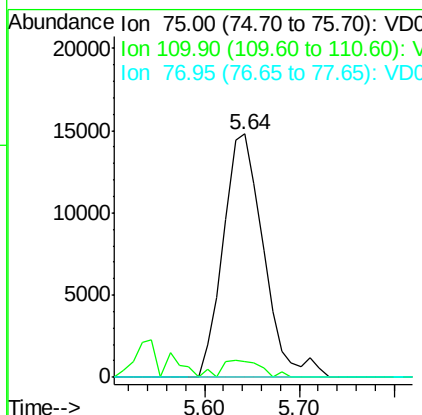
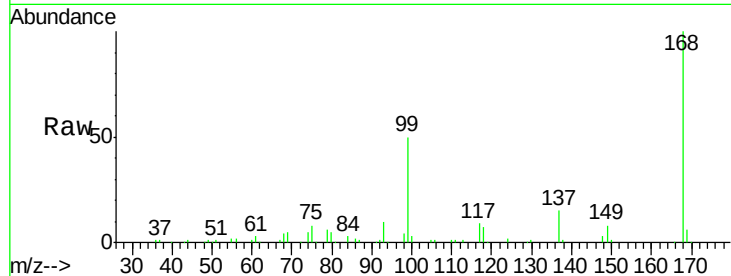




#36
 1,1-Dichloropropene
 Concen: 6.756 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. -0.11 min
 Lab File: VD059478.D
 Acq: 28 Jun 2018 22:32

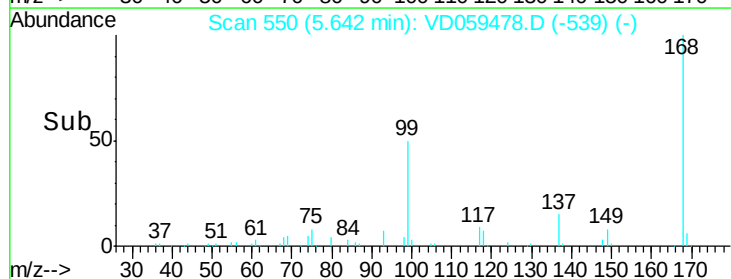
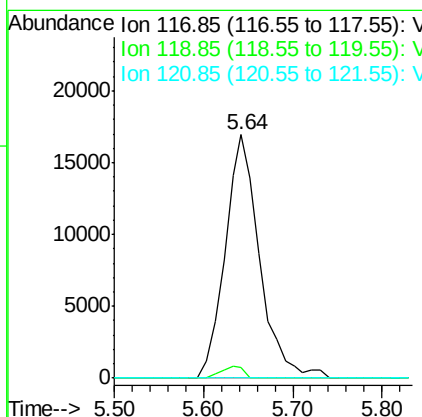
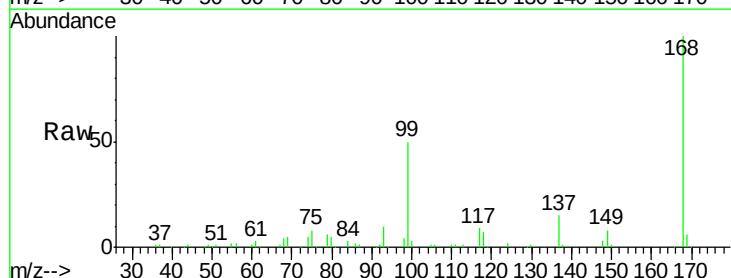
Instrument :
 MSVOA_D
 ClientSampleId :

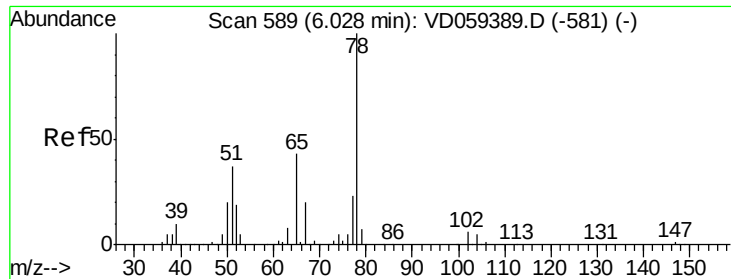
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.7	16.1	48.2#
77	0.0	23.4	35.2#



#38
 Carbon Tetrachloride
 Concen: 6.841 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. -0.09 min
 Lab File: VD059478.D
 Acq: 28 Jun 2018 22:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.6	115.0#
121	0.0	25.0	37.4#





#40

Benzene

Concen: 1.549 ug/l

RT: 6.02 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD059478.D

Acq: 28 Jun 2018 22:32

Instrument :

MSVOA_D

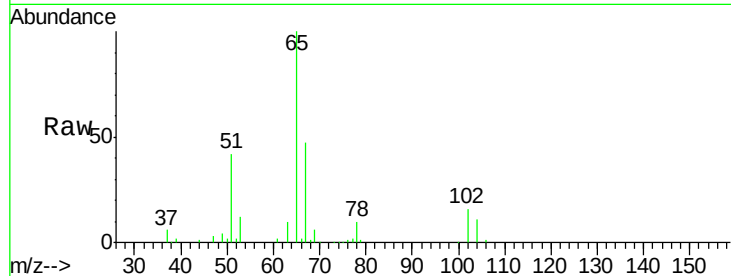
ClientSampleId :

Tot Ion: 78 Resp: 24022

Ion Ratio Lower Upper

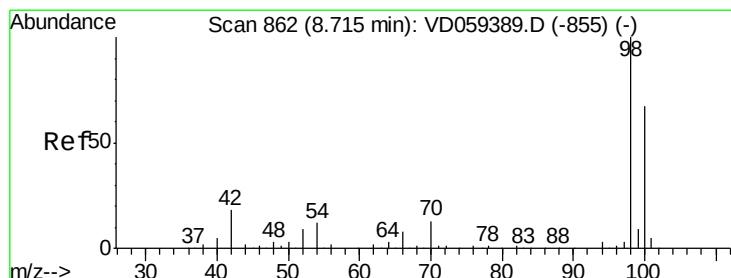
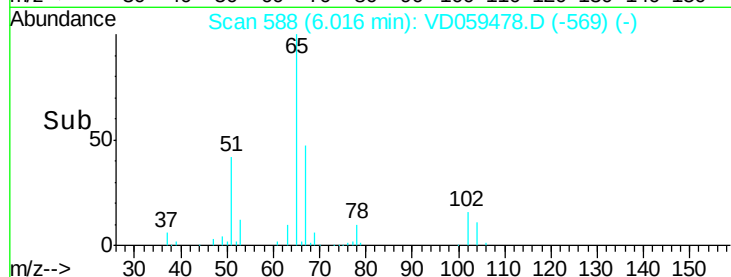
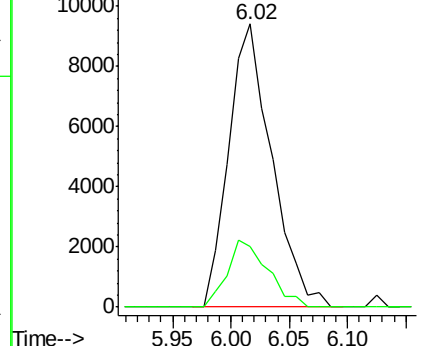
78 100

77 21.3 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. -0.00 min

Lab File: VD059478.D

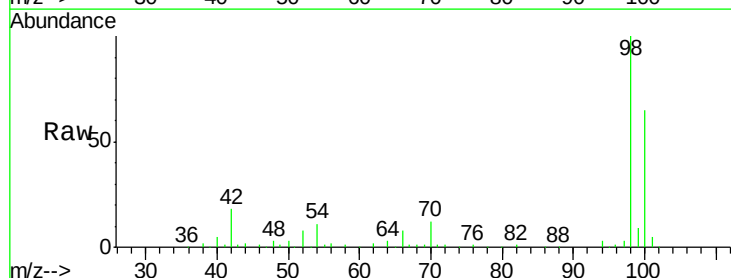
Acq: 28 Jun 2018 22:32

Tgt Ion: 98 Resp: 506706

Ion Ratio Lower Upper

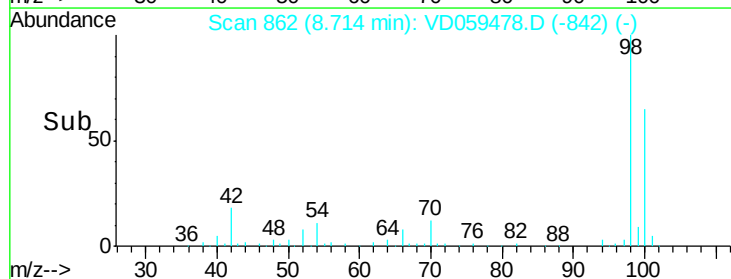
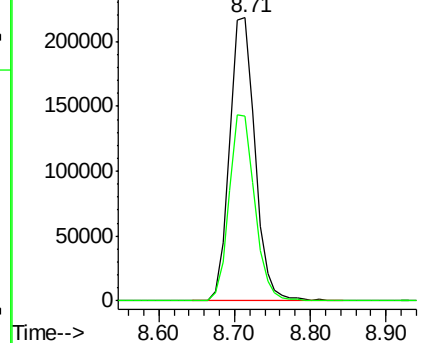
98 100

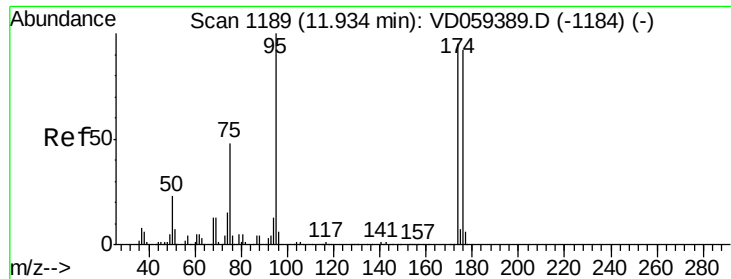
100 65.4 54.4 81.6



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: VD059478.D

Acq: 28 Jun 2018 22:32

Instrument :

MSVOA_D

ClientSampleId :

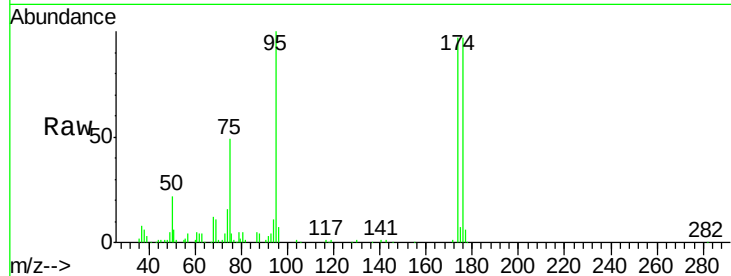
Tot Ion: 95 Resp: 166623

Ion Ratio Lower Upper

95 100

174 97.1 0.0 190.4

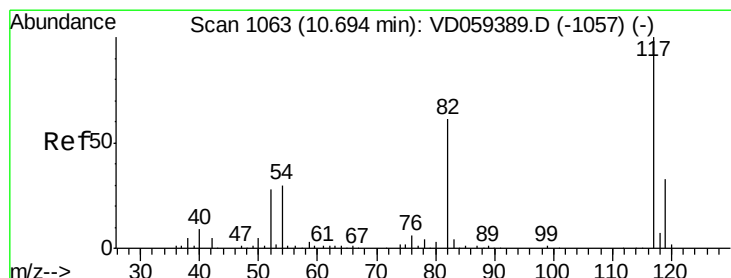
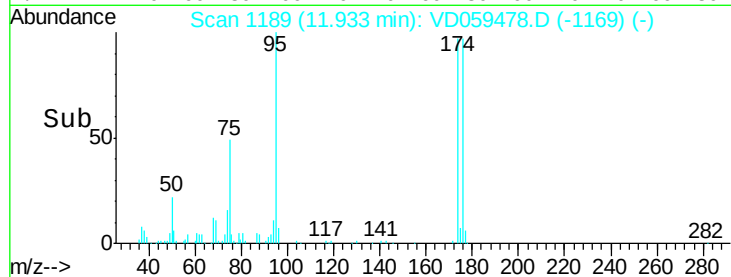
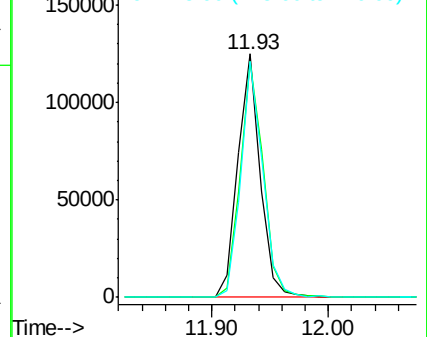
176 97.0 0.0 183.2



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: VD059478.D

Acq: 28 Jun 2018 22:32

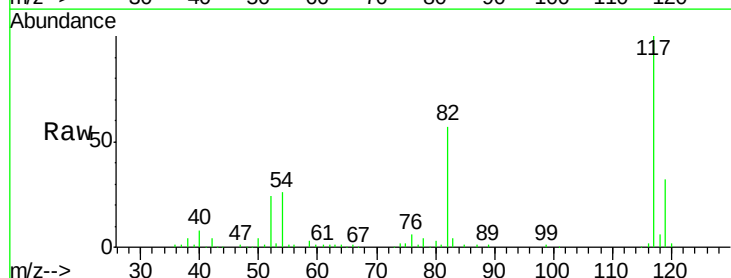
Tgt Ion: 117 Resp: 495475

Ion Ratio Lower Upper

117 100

82 56.7 49.0 73.6

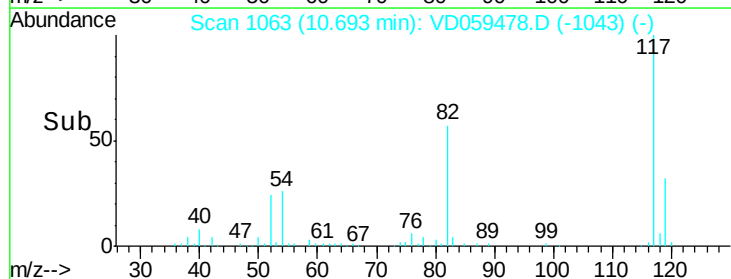
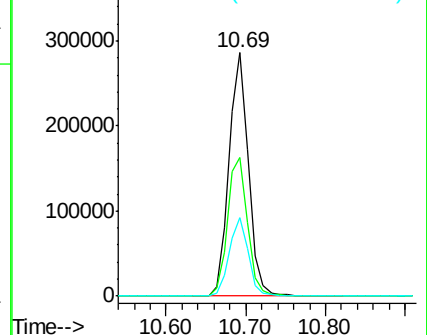
119 32.4 26.2 39.4

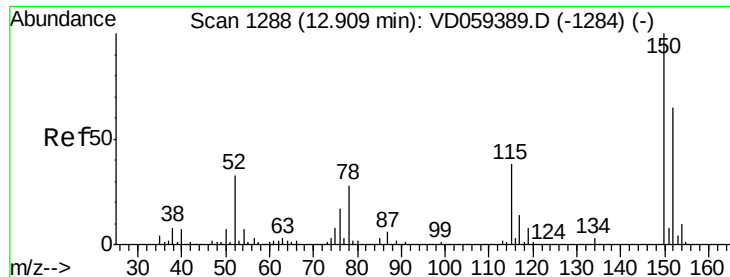


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD059478.D

Acq: 28 Jun 2018 22:32

Instrument :

MSVOA_D

ClientSampled :

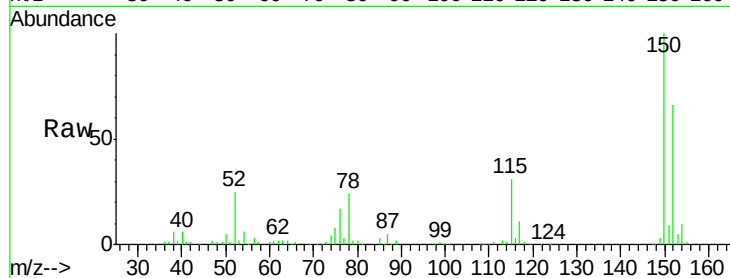
Tot Ion:152 Resp: 151672

Ion Ratio Lower Upper

152 100

115 47.7 29.4 88.3

150 151.4 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

250000

200000

150000

100000

50000

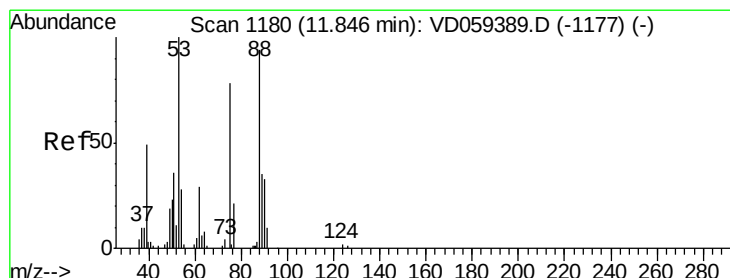
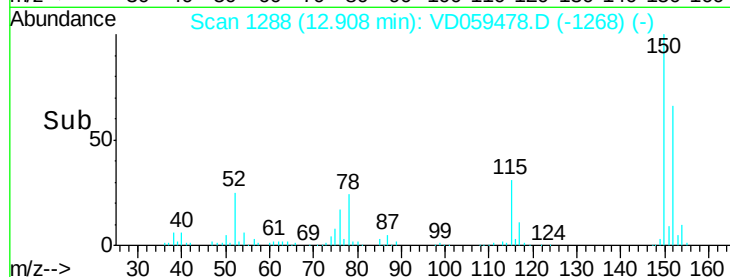
0

12.91

12.90

13.00

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 170.623 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD059478.D

Acq: 28 Jun 2018 22:32

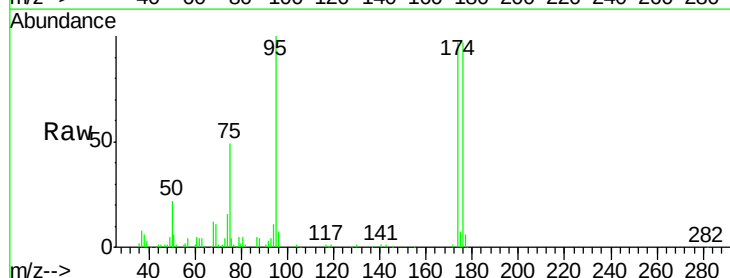
Tgt Ion: 75 Resp: 81133

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

80000

60000

40000

20000

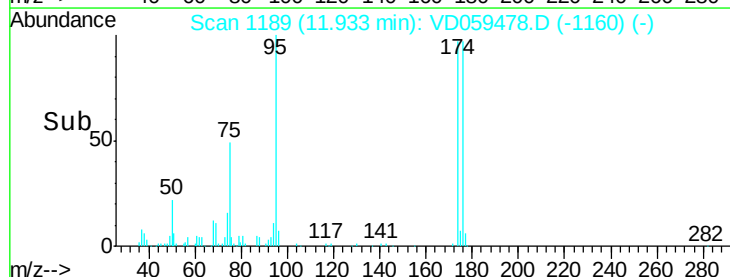
0

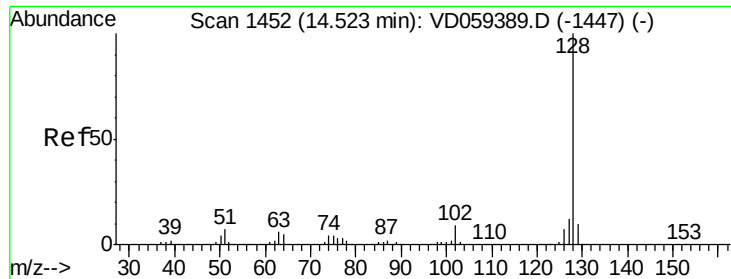
11.93

11.90

12.00

Time-->





#95
 Naphthalene
 Concen: 1.357 ug/l
 RT: 14.51 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: VD059478.D
 Acq: 28 Jun 2018 22:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 6570
 Ion Ratio Lower Upper
 128 100
 127 9.5 9.6 14.4#
 129 11.9 8.2 12.2

