

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058317.D
 Acq On : 23 Jun 2018 2:23
 Operator : VA/AP
 Sample : VD0622SBL02
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBL02

Quant Time: Jun 23 04:12:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	925893	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.69	114	1228855	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	1047518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	537521	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	542855	58.05	ug/l	0.01
Spiked Amount			Recovery	=	116.10%	
35) Dibromofluoromethane	5.55	113	532374	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
50) Toluene-d8	8.71	98	1248625	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
62) 4-Bromofluorobenzene	11.93	95	519527	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	

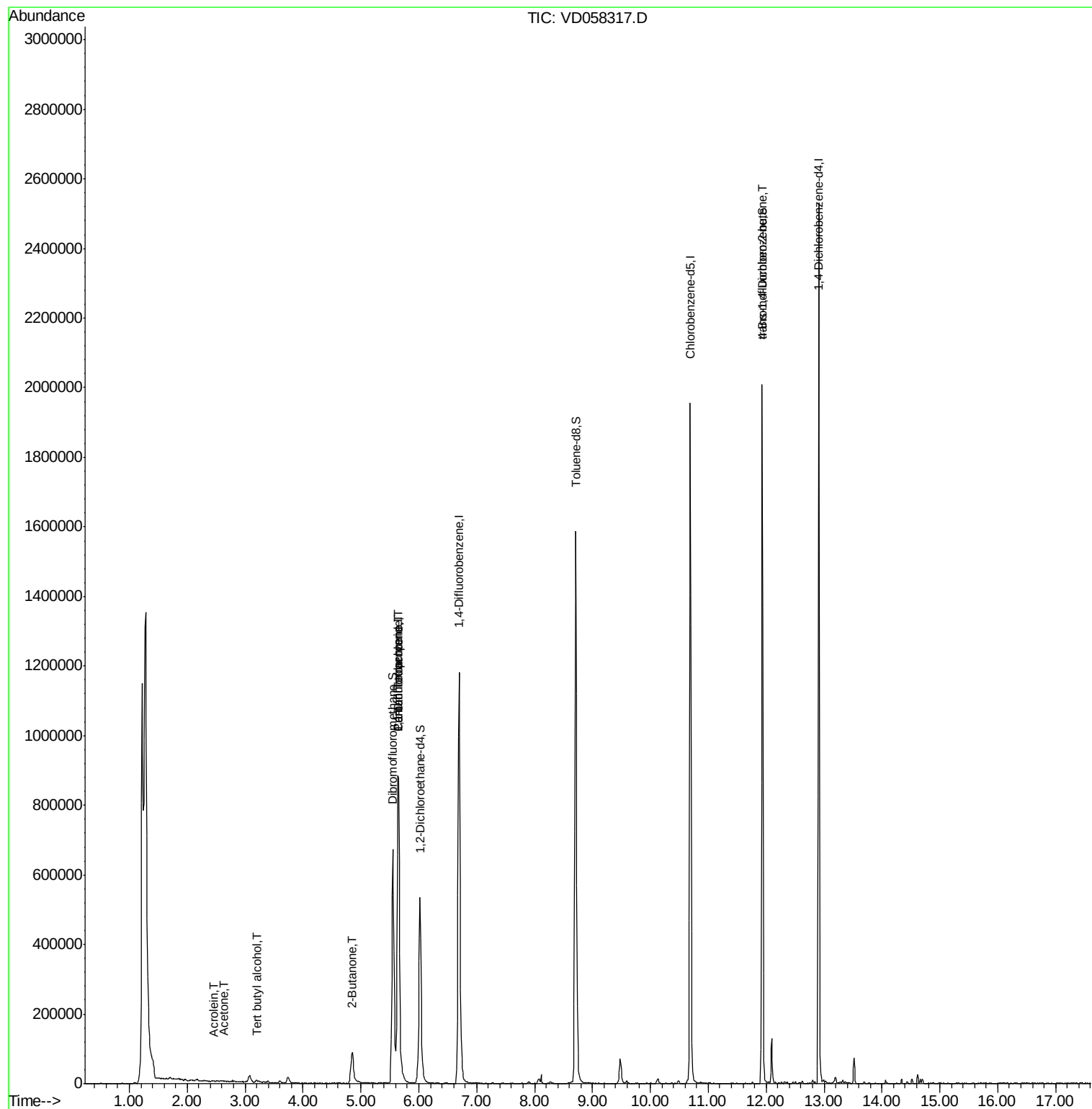
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	1351	Below Cal	#	43
3) Chloromethane	1.54	50	564	Below Cal	#	43
5) Bromomethane	1.86	94	191	Below Cal		90
11) Tert butyl alcohol	3.21	59	5503	17.841	ug/l #	78
13) Acrolein	2.45	56	216	1.227	ug/l #	11
16) Acetone	2.62	43	6507	5.088	ug/l #	62
20) Methylene Chloride	3.08	84	8989	Below Cal	#	91
25) 2-Butanone	4.84	43	8343	2.993	ug/l #	60
31) Cyclohexane	5.64	56	21672	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	78097	6.424	ug/l #	48
38) Carbon Tetrachloride	5.65	117	73849	6.114	ug/l #	14
81) trans-1,4-Dichloro-2-buten	11.93	75	251455	131.372	ug/l #	1
82) 4-Chlorotoluene	12.32	91	2103	Below Cal	#	45

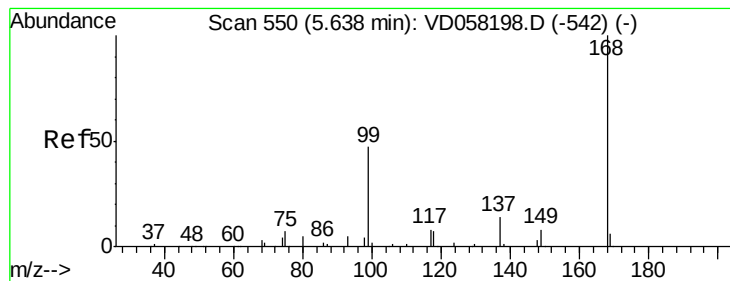
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058317.D

Acq: 23 Jun 2018 2:23

Instrument :

MSVOA_D

ClientSampleId :

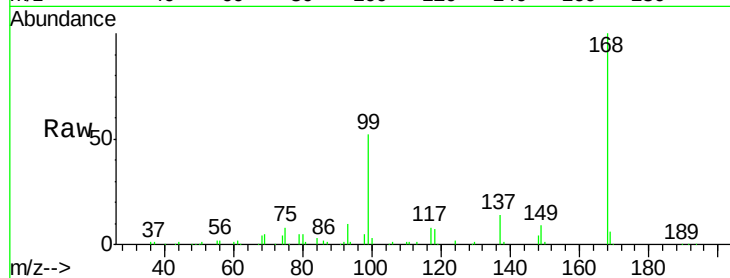
VD0622SBL02

Tot Ion:168 Resp: 925893

Ion Ratio Lower Upper

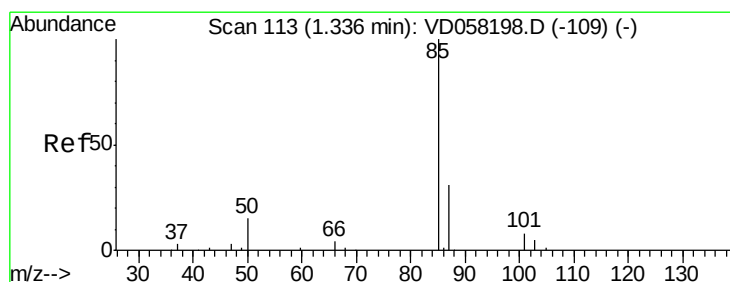
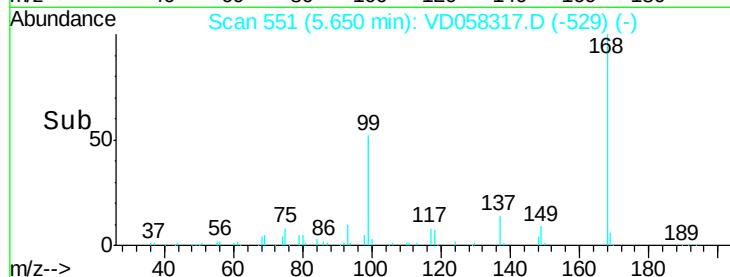
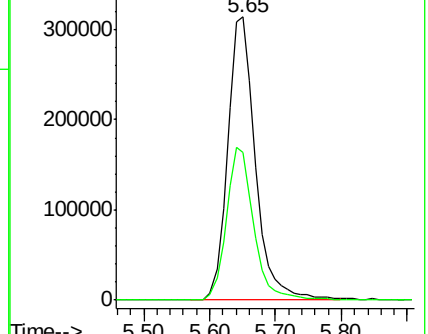
168 100

99 52.3 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD058317.D

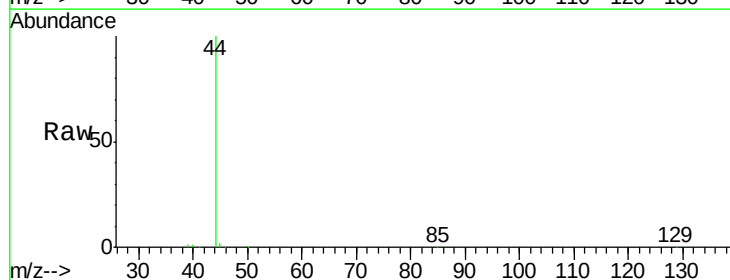
Acq: 23 Jun 2018 2:23

Tgt Ion: 85 Resp: 1351

Ion Ratio Lower Upper

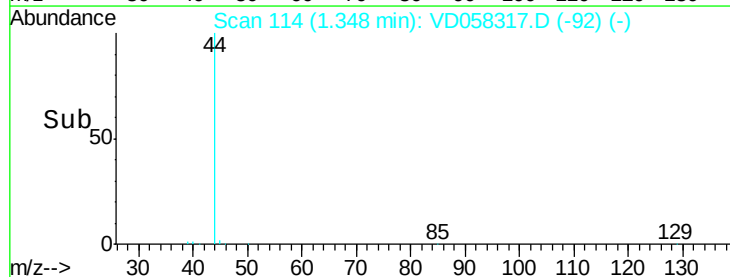
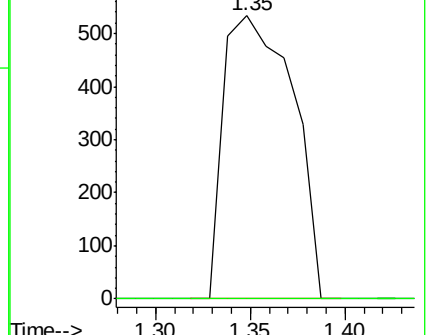
85 100

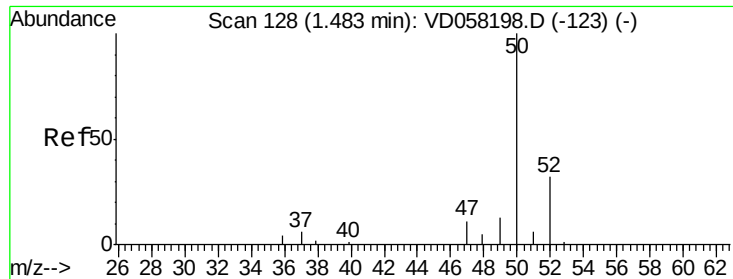
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

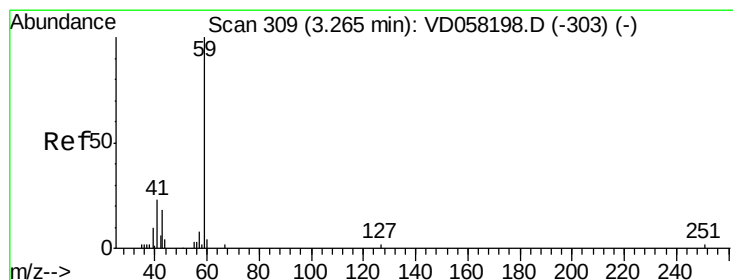
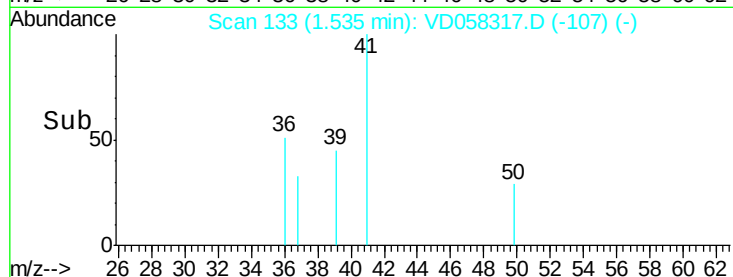
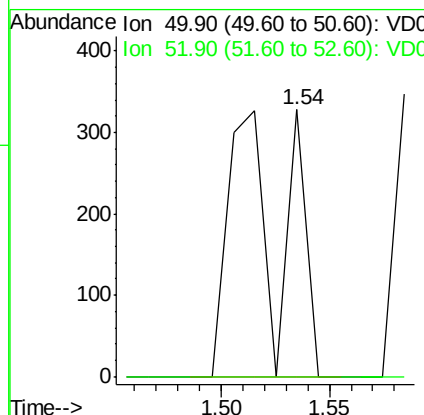
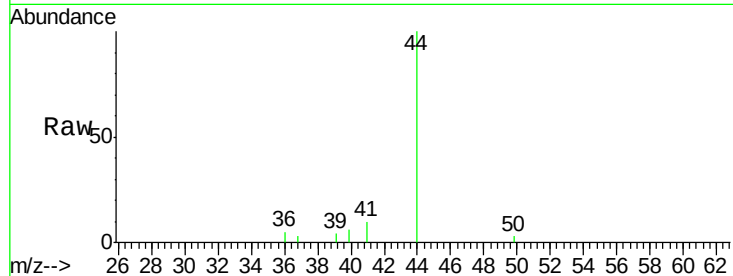




#3
 Chloromethane
 Concen: Below Cal
 RT: 1.54 min Scan# 133
 Delta R.T. 0.05 min
 Lab File: VD058317.D
 Acq: 23 Jun 2018 2:23

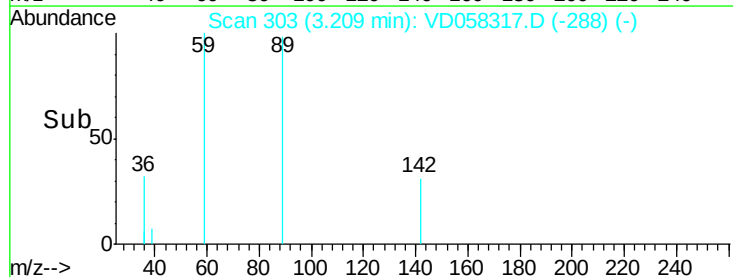
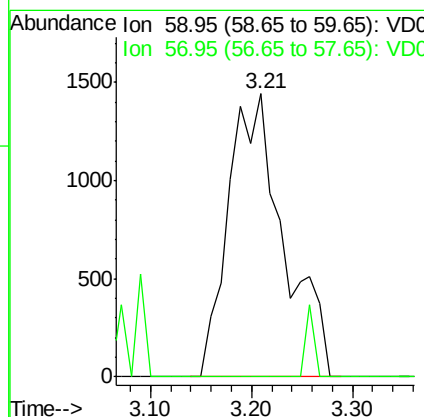
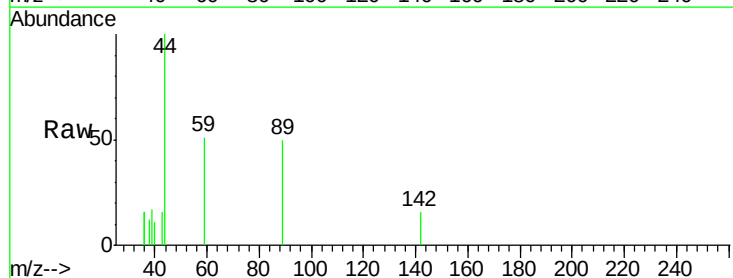
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBL02

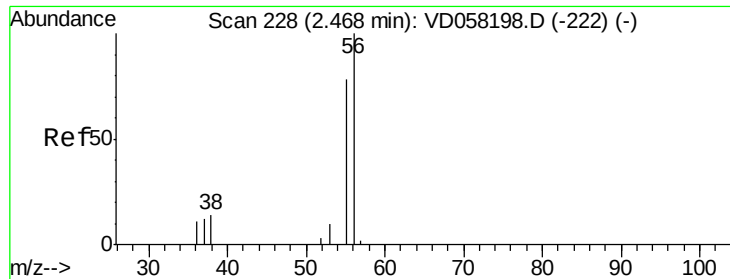
Tot Ion: 50 Resp: 564
 Ion Ratio Lower Upper
 50 100
 52 0.0 25.0 37.4#



#11
 Tert butyl alcohol
 Concen: 17.841 ug/l
 RT: 3.21 min Scan# 303
 Delta R.T. -0.06 min
 Lab File: VD058317.D
 Acq: 23 Jun 2018 2:23

Tgt Ion: 59 Resp: 5503
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.4#





#13

Acrolein

Concen: 1.227 ug/l

RT: 2.45 min Scan# 226

Delta R.T. -0.02 min

Lab File: VD058317.D

Acq: 23 Jun 2018 2:23

Instrument :

MSVOA_D

ClientSampleId :

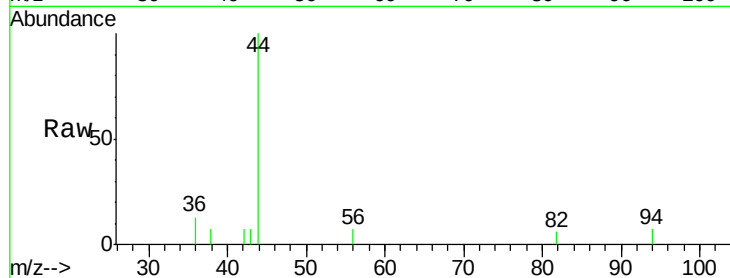
VD0622SBL02

Tot Ion: 56 Resp: 216

Ion Ratio Lower Upper

56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.45

300

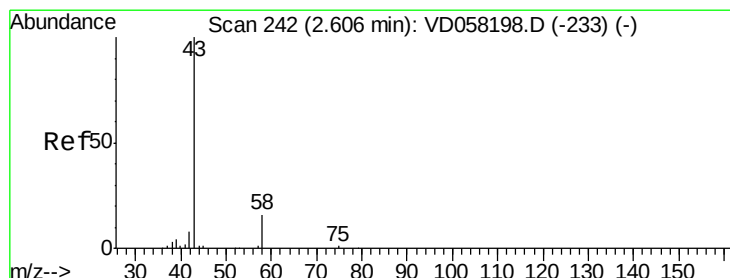
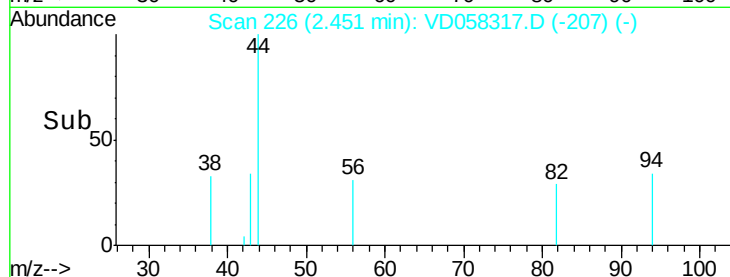
200

100

0

2.42 2.44 2.46 2.48

Time-->



#16

Acetone

Concen: 5.088 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058317.D

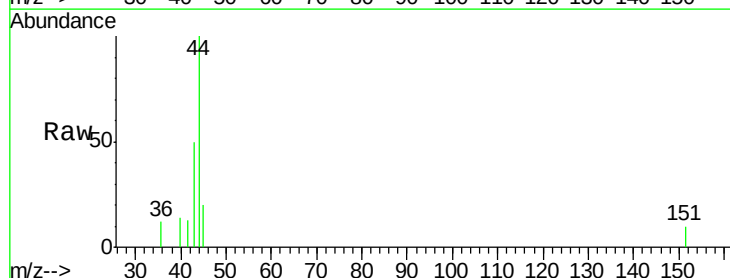
Acq: 23 Jun 2018 2:23

Tgt Ion: 43 Resp: 6507

Ion Ratio Lower Upper

43 100

58 0.0 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.62

2000

1500

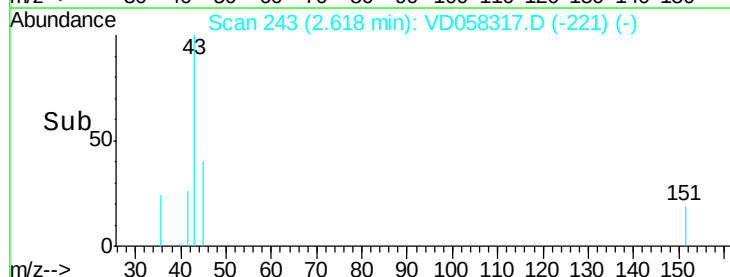
1000

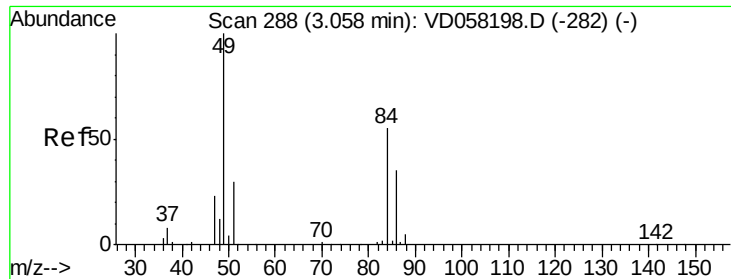
500

0

2.50 2.55 2.60 2.65 2.70

Time-->

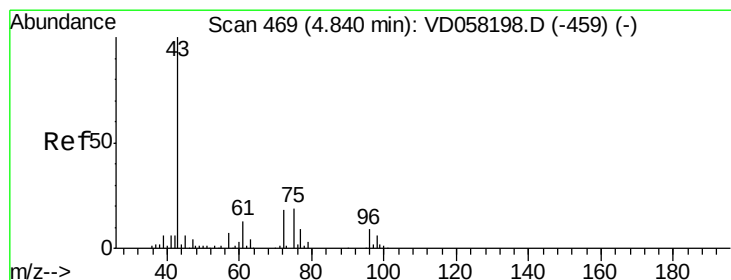
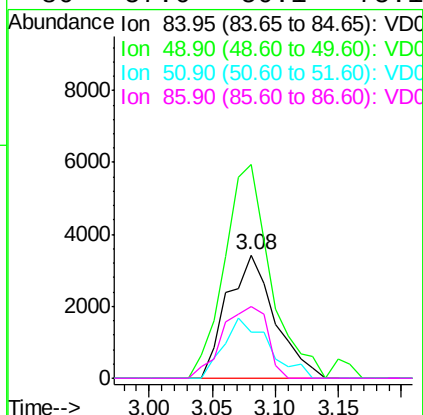
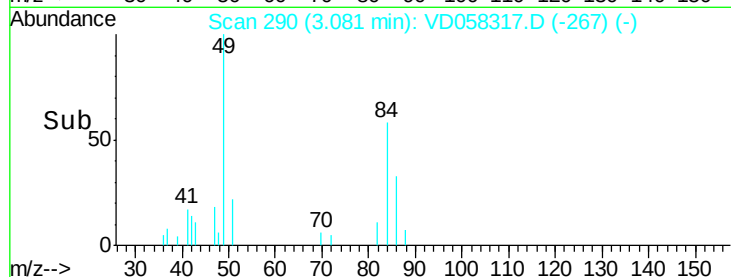
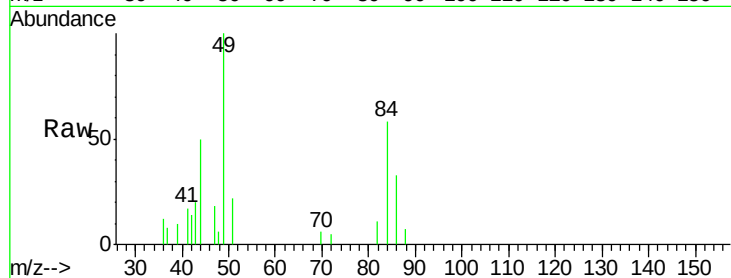




#20
Methylene Chloride
Concen: Below Cal
RT: 3.08 min Scan# 290
Delta R.T. 0.02 min
Lab File: VD058317.D
Acq: 23 Jun 2018 2:23

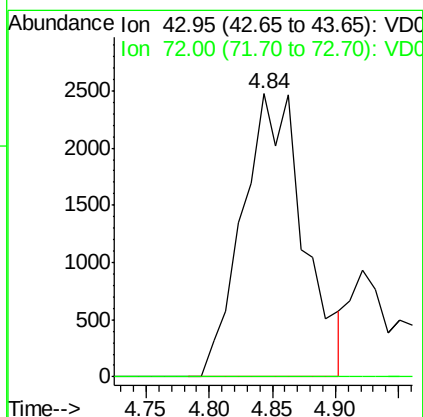
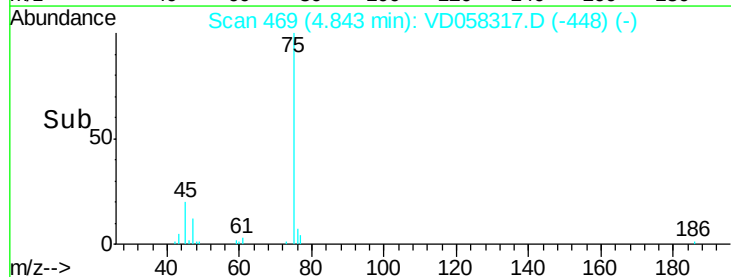
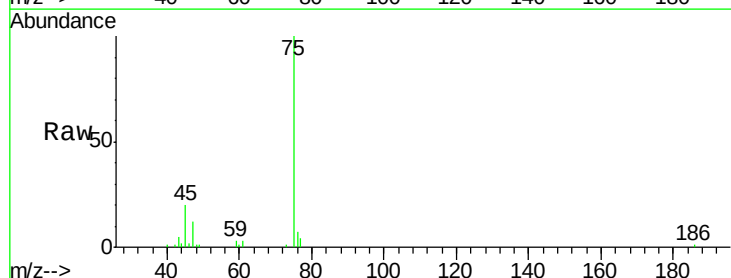
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBL02

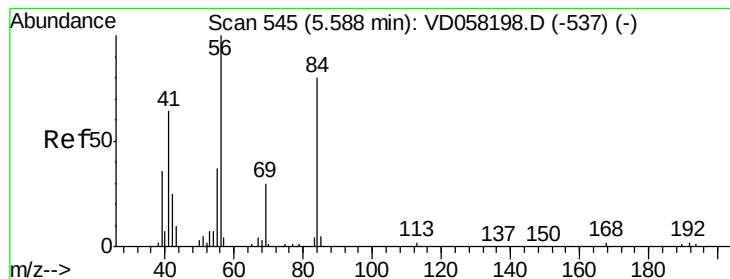
Tot Ion: 84 Resp: 8989
Ion Ratio Lower Upper
84 100
49 173.0 145.0 217.6
51 37.5 42.9 64.3#
86 57.6 50.1 75.1



#25
2-Butanone
Concen: 2.993 ug/l
RT: 4.84 min Scan# 469
Delta R.T. 0.00 min
Lab File: VD058317.D
Acq: 23 Jun 2018 2:23

Tgt Ion: 43 Resp: 8343
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#





#31

Cyclohexane

Concen: Below Cal

RT: 5.64 min Scan# 550

Delta R.T. 0.05 min

Lab File: VD058317.D

Acq: 23 Jun 2018 2:23

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBL02

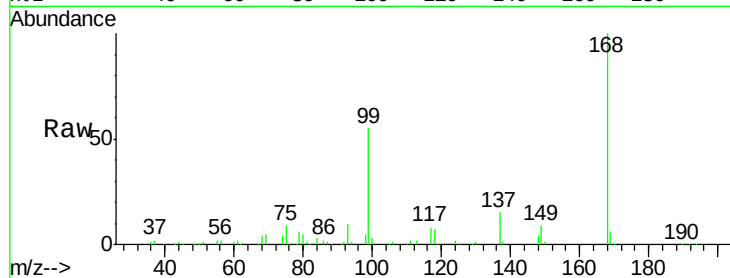
Tot Ion: 56 Resp: 21672

Ion Ratio Lower Upper

56 100

69 233.1 23.6 35.4#

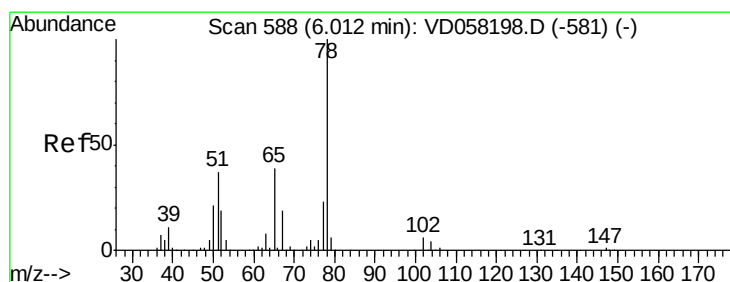
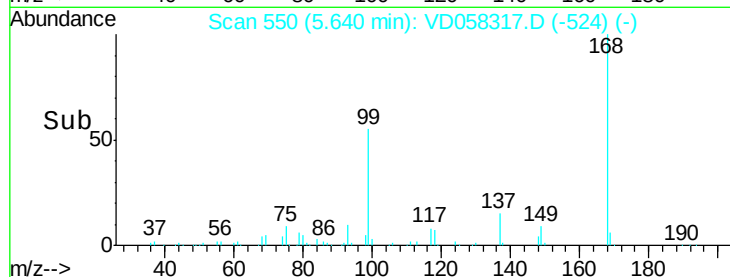
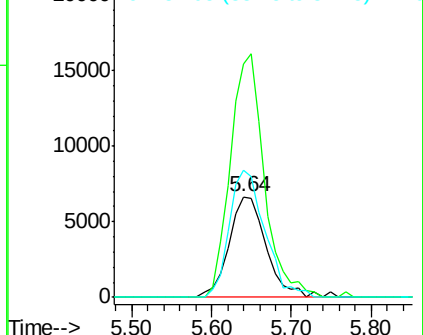
84 127.1 65.2 97.8#



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# 589

Delta R.T. 0.01 min

Lab File: VD058317.D

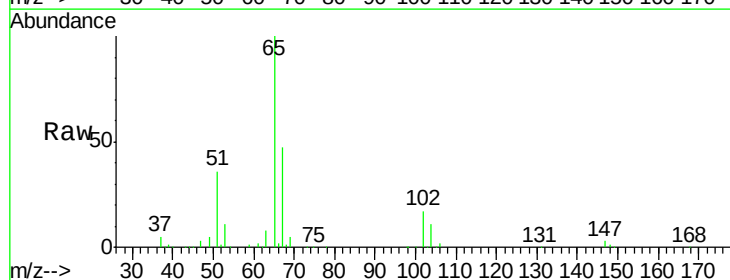
Acq: 23 Jun 2018 2:23

Tgt Ion: 65 Resp: 542855

Ion Ratio Lower Upper

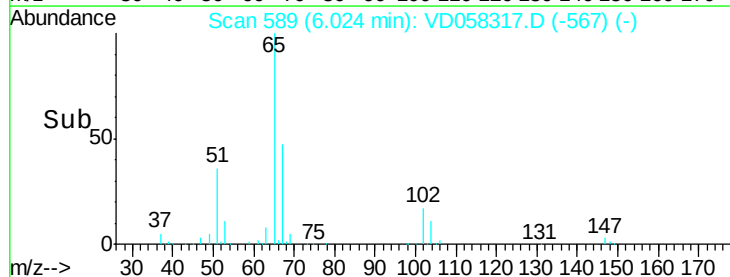
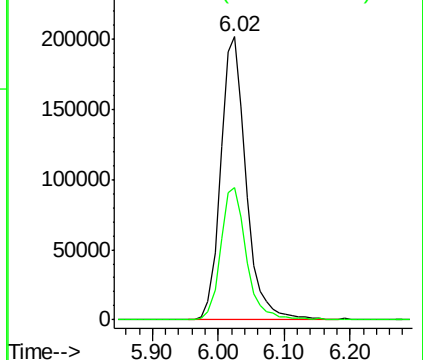
65 100

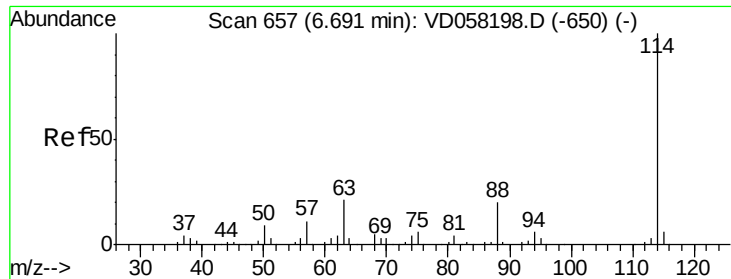
67 46.9 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

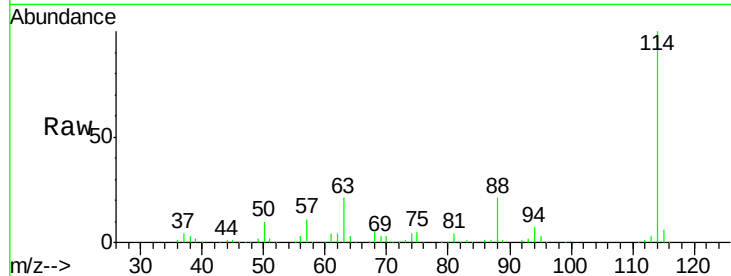




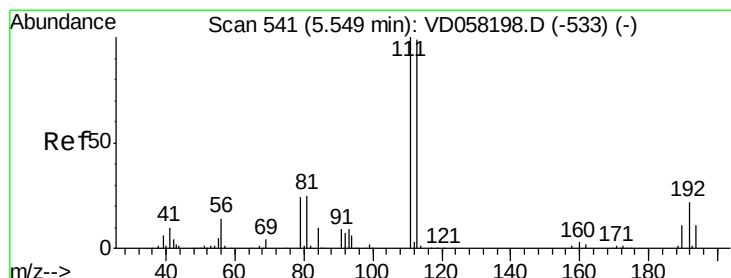
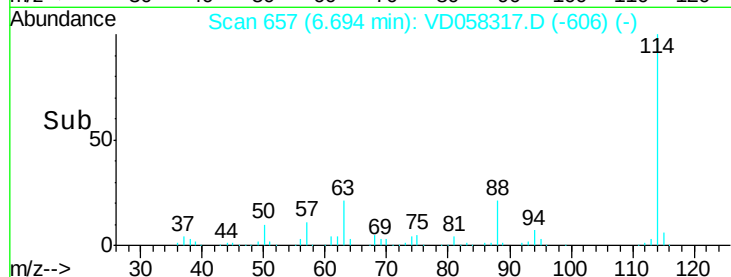
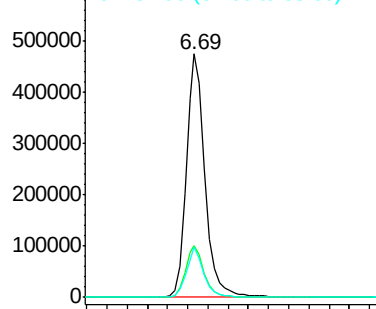
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VD058317.D
 Acq: 23 Jun 2018 2:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBL02

Tot Ion:114 Resp: 1228855
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.6
 88 20.7 0.0 40.6

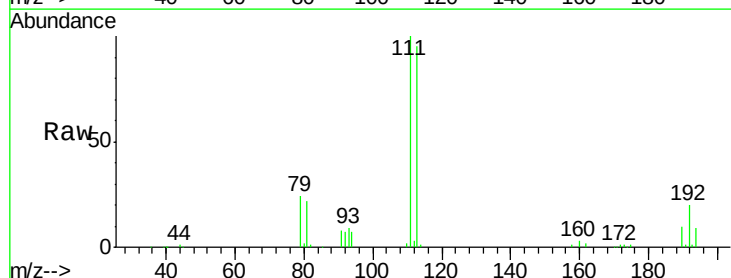


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

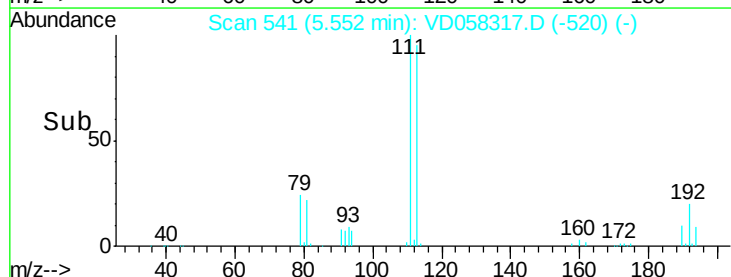
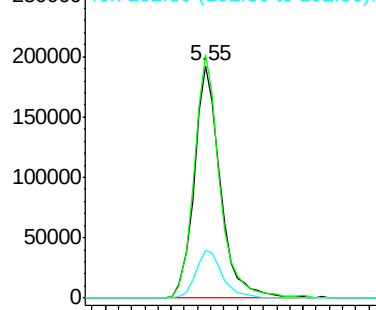


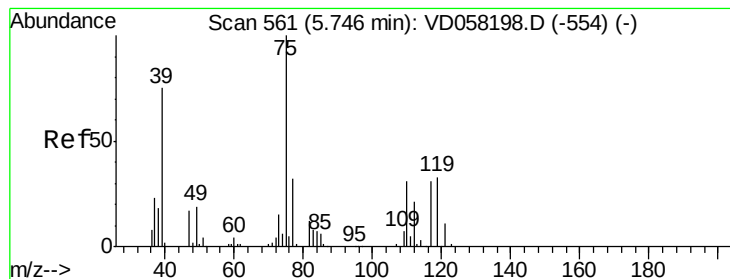
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. 0.00 min
 Lab File: VD058317.D
 Acq: 23 Jun 2018 2:23

Tgt Ion:113 Resp: 532374
 Ion Ratio Lower Upper
 113 100
 111 104.8 80.6 121.0
 192 20.8 17.8 26.6



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.424 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058317.D

Acq: 23 Jun 2018 2:23

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBL02

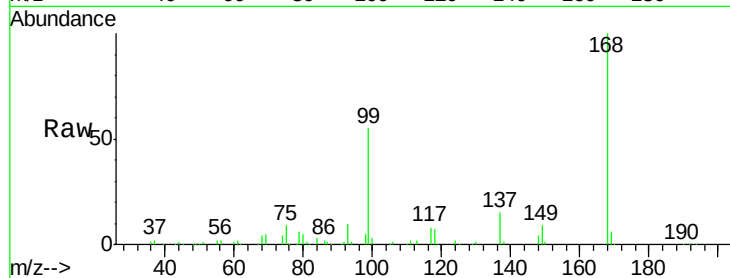
Tot Ion: 75 Resp: 78097

Ion Ratio Lower Upper

75 100

110 5.0 15.4 46.4#

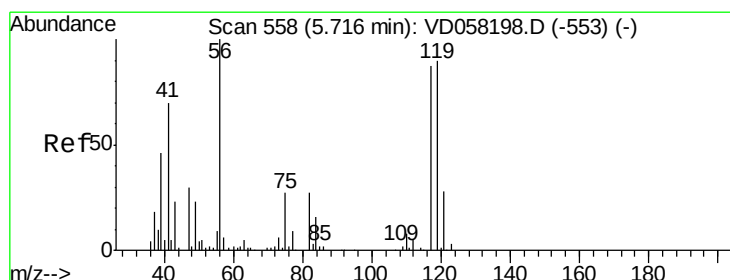
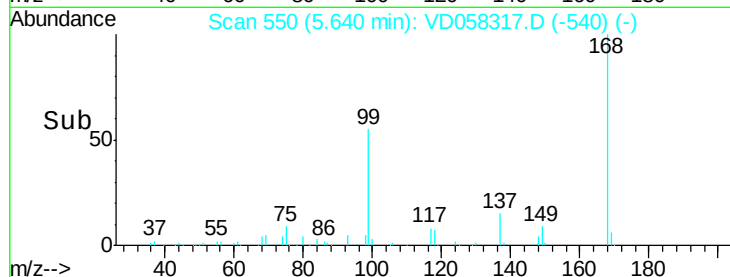
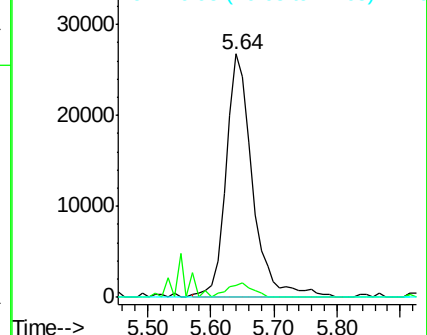
77 0.0 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.114 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.07 min

Lab File: VD058317.D

Acq: 23 Jun 2018 2:23

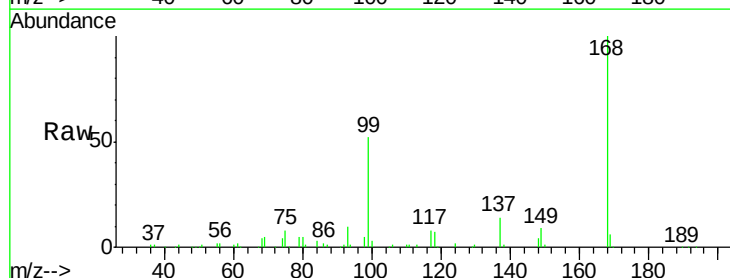
Tgt Ion: 117 Resp: 73849

Ion Ratio Lower Upper

117 100

119 4.4 78.8 118.2#

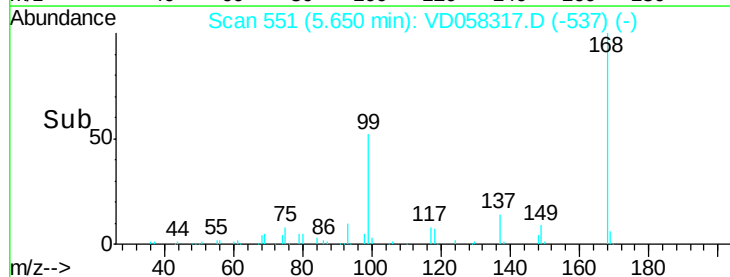
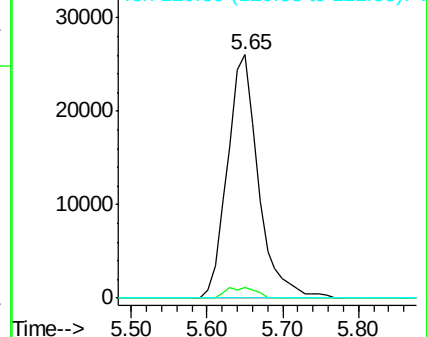
121 0.0 25.0 37.6#

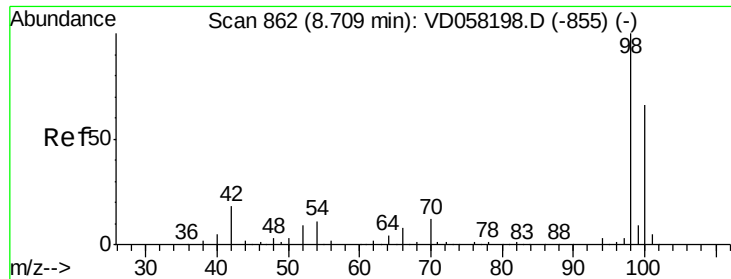


Abundance Ion 116.85 (116.55 to 117.55): V

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: 8.71 min Scan# 862

Delta R.T. 0.00 min

Lab File: VD058317.D

Acq: 23 Jun 2018 2:23

Instrument :

MSVOA_D

ClientSampleId :

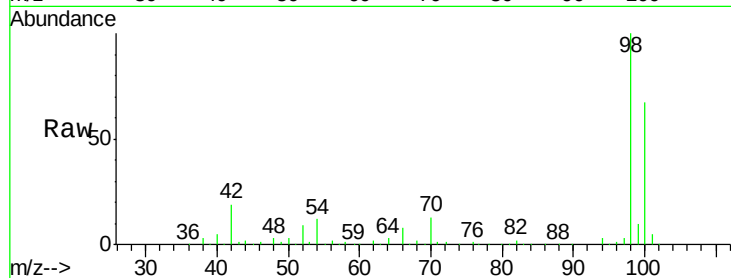
VD0622SBL02

Tot Ion: 98 Resp: 1248625

Ion Ratio Lower Upper

98 100

100 67.0 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VD0

Ion 100.05 (99.75 to 100.75): VD

8.71

600000

500000

400000

300000

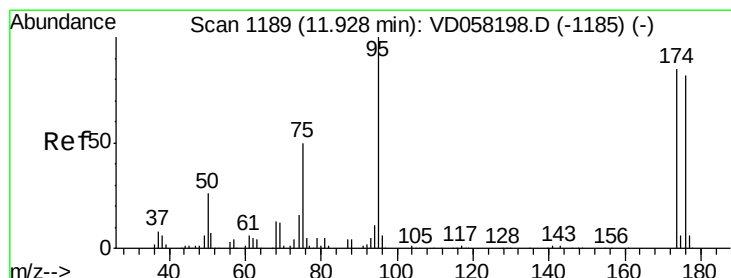
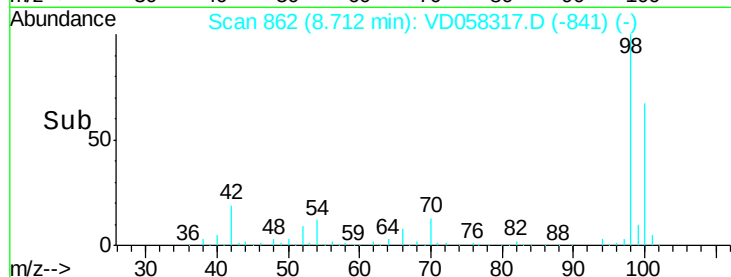
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058317.D

Acq: 23 Jun 2018 2:23

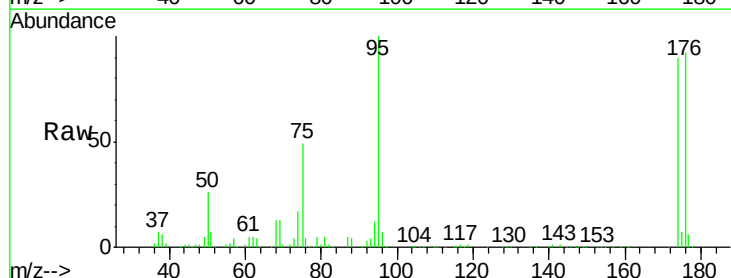
Tgt Ion: 95 Resp: 519527

Ion Ratio Lower Upper

95 100

174 89.7 0.0 170.2

176 92.2 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VD0

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

500000

400000

300000

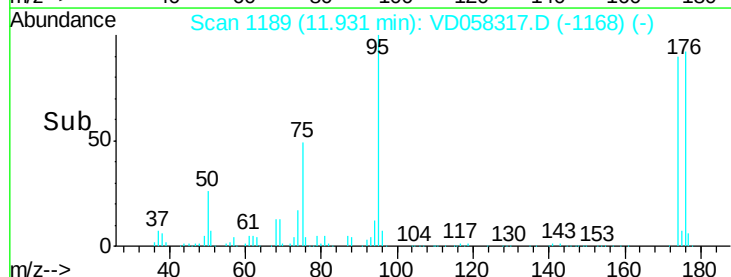
200000

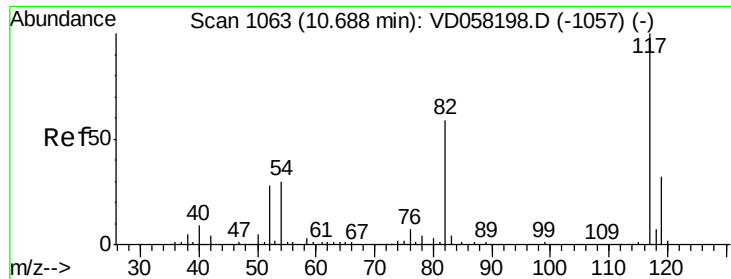
100000

0

11.80 11.90 12.00 12.10

Time-->

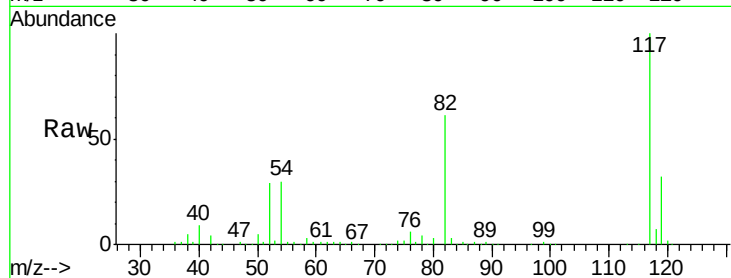




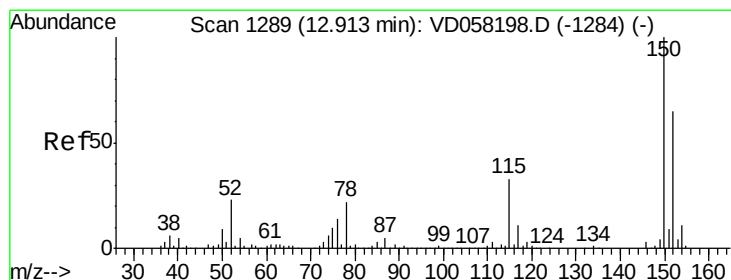
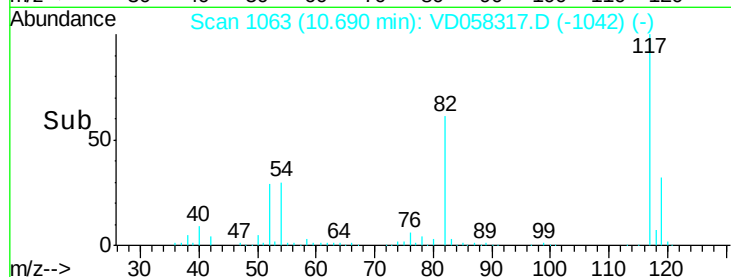
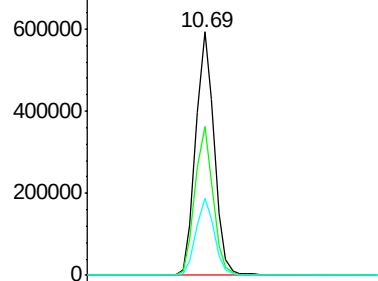
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058317.D
Acq: 23 Jun 2018 2:23

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBL02

Tot Ion:117 Resp: 1047518
Ion Ratio Lower Upper
117 100
82 61.1 47.0 70.6
119 31.8 25.3 37.9

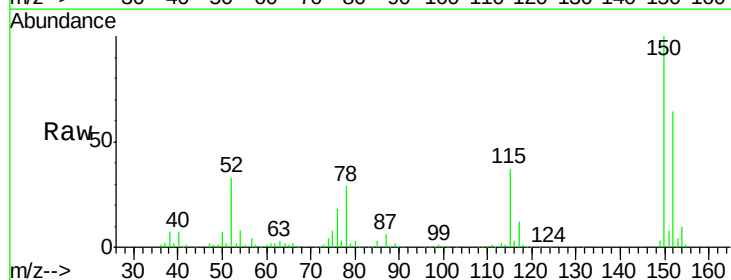


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

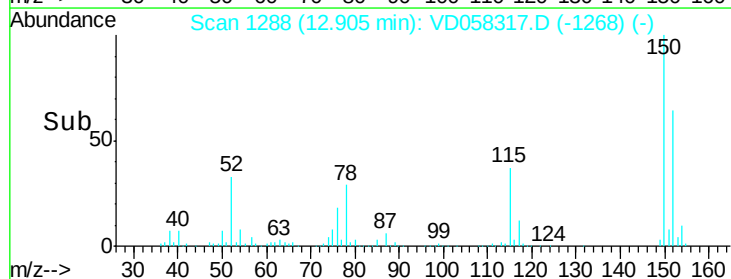
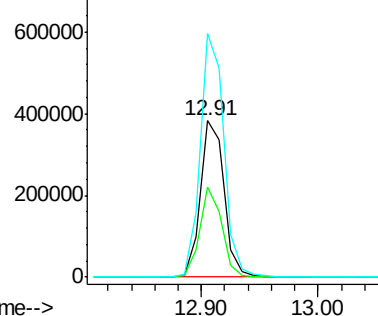


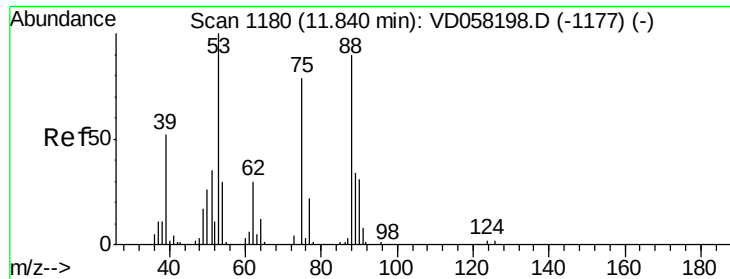
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058317.D
Acq: 23 Jun 2018 2:23

Tgt Ion:152 Resp: 537521
Ion Ratio Lower Upper
152 100
115 57.5 25.1 75.3
150 155.6 0.0 308.8



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

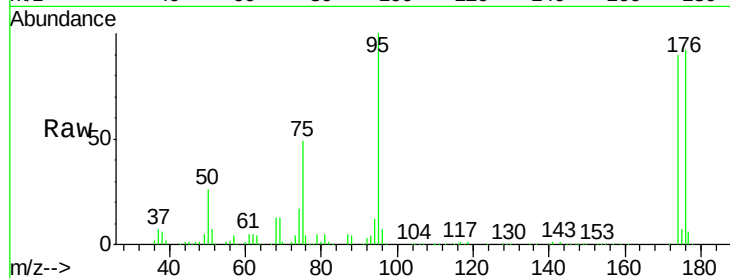




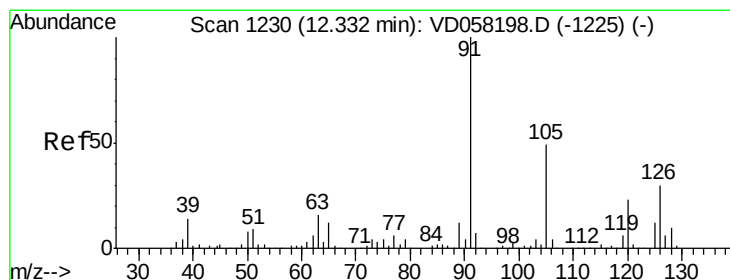
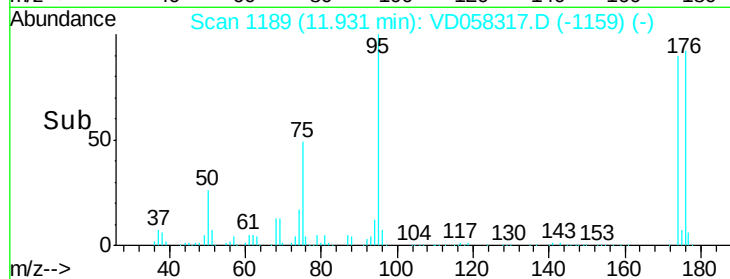
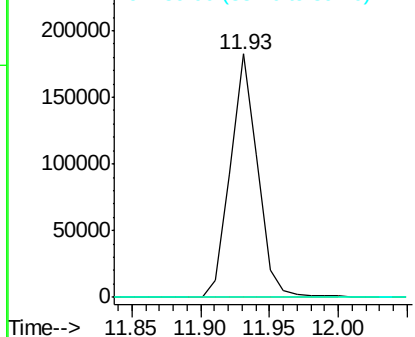
#81
trans-1,4-Dichloro-2-butene
Concen: 131.372 ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.09 min
Lab File: VD058317.D
Acq: 23 Jun 2018 2:23

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBL02

Tot Ion: 75 Resp: 251455
Ion Ratio Lower Upper
75 100
53 0.0 100.8 151.2#
89 0.0 34.6 52.0#

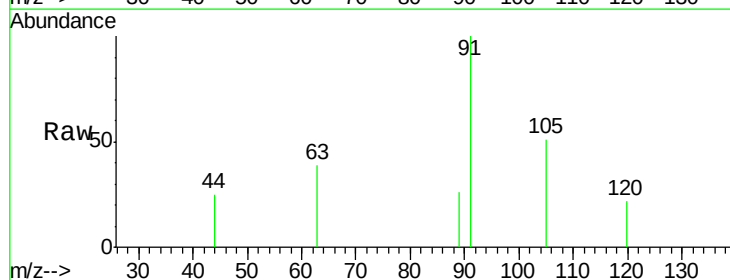


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.32 min Scan# 1229
Delta R.T. -0.01 min
Lab File: VD058317.D
Acq: 23 Jun 2018 2:23

Tgt Ion: 91 Resp: 2103
Ion Ratio Lower Upper
91 100
126 0.0 14.9 44.9#



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

