

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058209.D
 Acq On : 20 Jun 2018 14:51
 Operator : VA/AP
 Sample : J3249-03RE
 Misc : 6.52g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PL-01-061818-B

Quant Time: Jun 21 01:45:29 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	793972	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	1011070	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.69	117	809903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	406971	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	390376	48.68	ug/l	0.01
Spiked Amount			Recovery	=	97.36%	
35) Dibromofluoromethane	5.55	113	404826	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	8.71	98	898488	45.13	ug/l	0.00
Spiked Amount			Recovery	=	90.26%	
62) 4-Bromofluorobenzene	11.93	95	356728	43.86	ug/l	0.00
Spiked Amount			Recovery	=	87.72%	

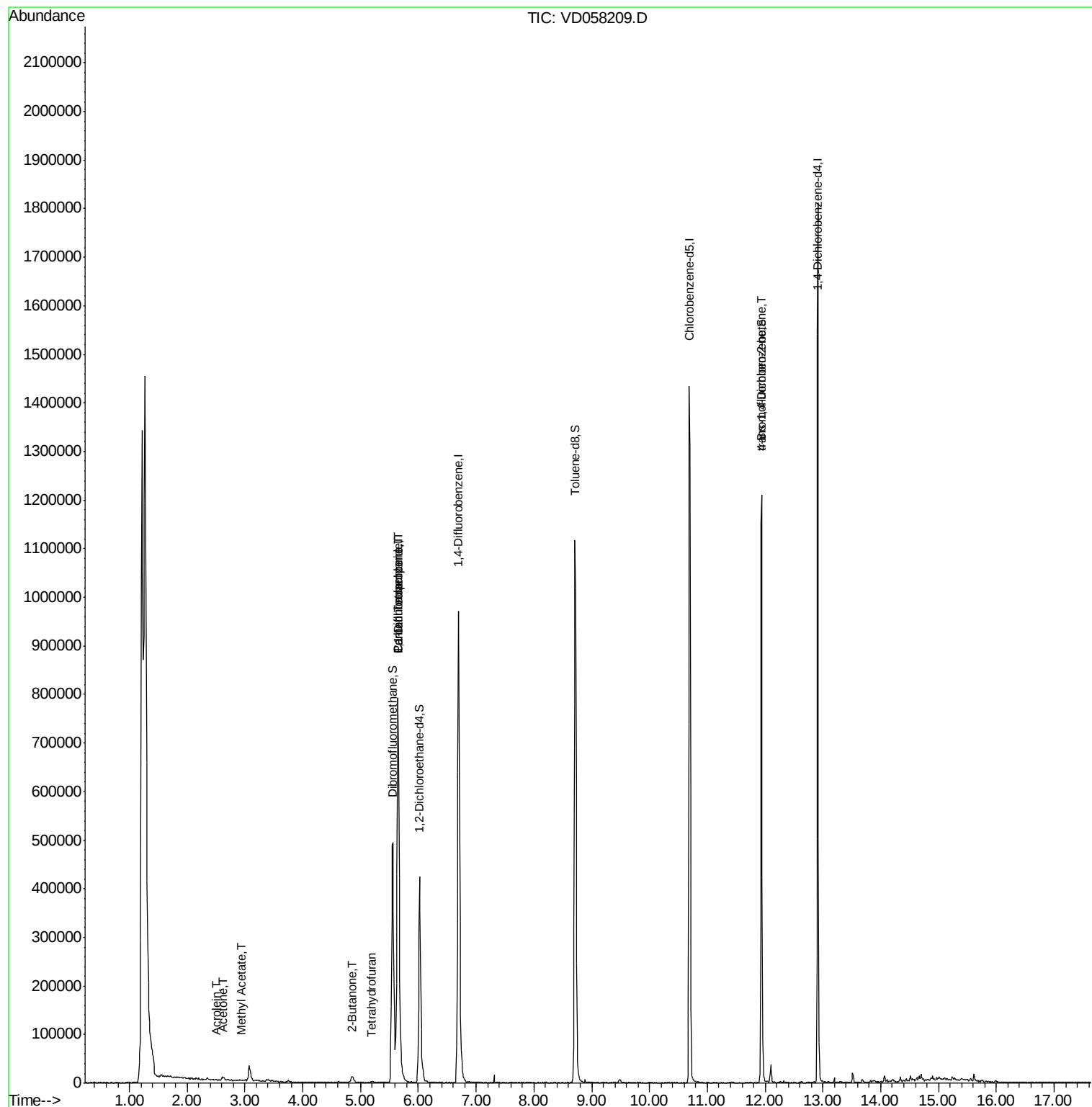
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	181	Below Cal	#	43
3) Chloromethane	1.48	50	385	Below Cal	#	43
13) Acrolein	2.52	56	235	1.556	ug/l #	11
16) Acetone	2.63	43	18082	16.487	ug/l #	78
18) Methyl Acetate	2.93	43	2997	1.281	ug/l #	65
25) 2-Butanone	4.86	43	2438	1.020	ug/l #	60
29) Tetrahydrofuran	5.19	42	1732	1.361	ug/l #	52
31) Cyclohexane	5.64	56	17673	Below Cal	#	16
36) 1,1-Dichloropropene	5.65	75	64531	6.452	ug/l #	49
38) Carbon Tetrachloride	5.65	117	64204	6.460	ug/l #	13
81) trans-1,4-Dichloro-2-buten	11.93	75	172161	118.798	ug/l #	1
82) 4-Chlorotoluene	12.32	91	1513	Below Cal		94

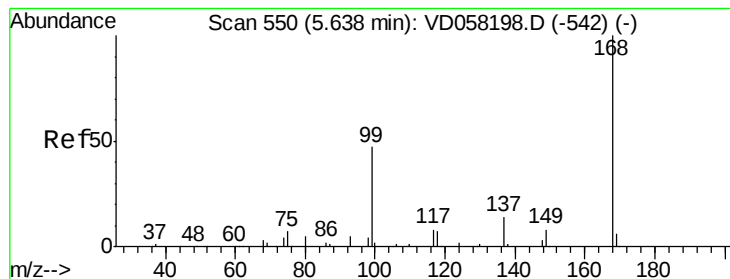
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

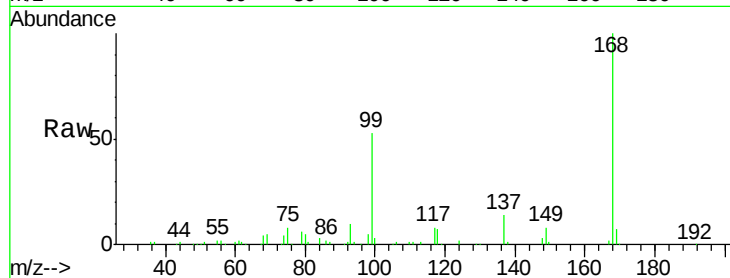
PL-01-061818-B

Tot Ion:168 Resp: 793972

Ion Ratio Lower Upper

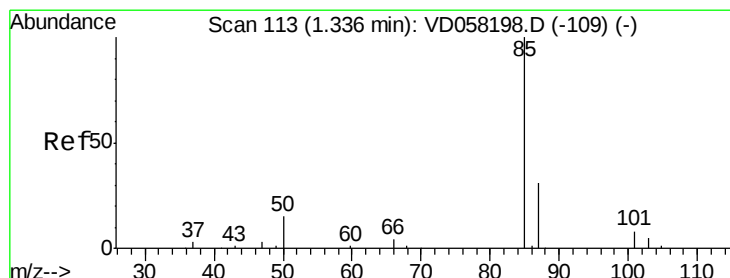
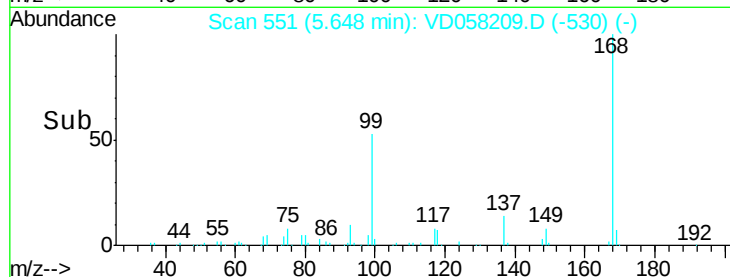
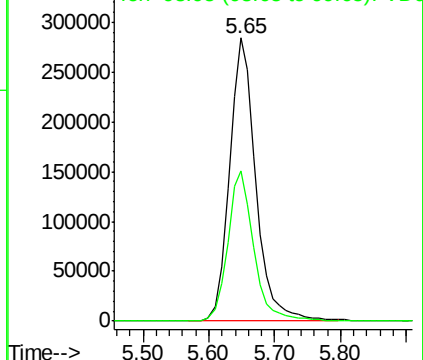
168 100

99 53.1 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: VD058209.D

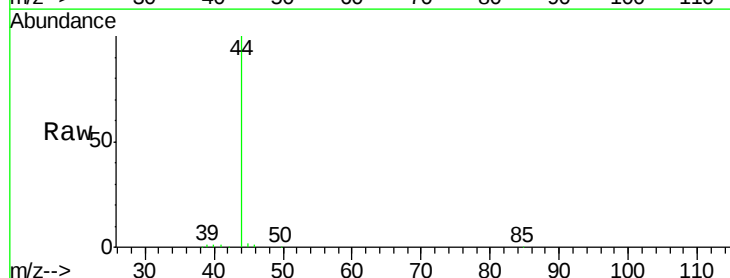
Acq: 20 Jun 2018 14:51

Tgt Ion: 85 Resp: 181

Ion Ratio Lower Upper

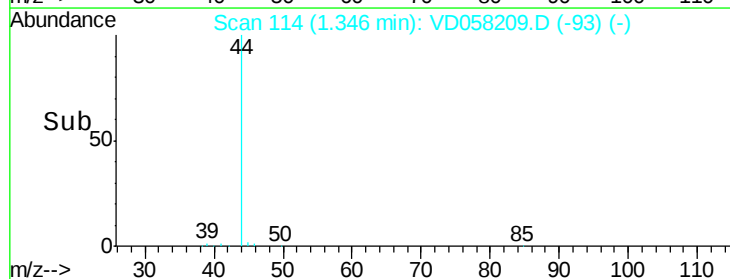
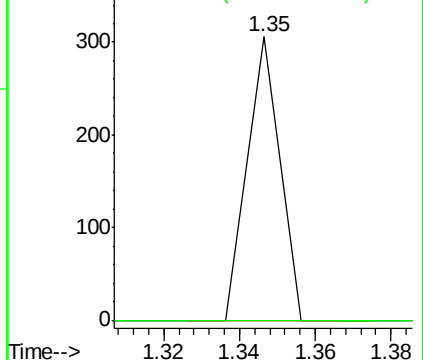
85 100

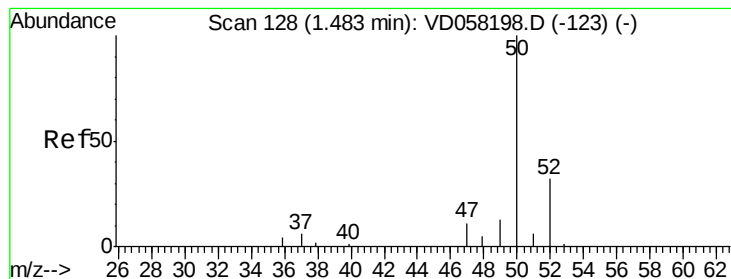
87 0.0 15.7 47.0#



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: 1.48 min Scan# 128

Delta R.T. 0.00 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

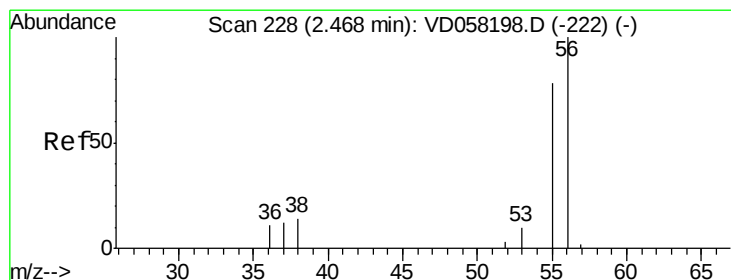
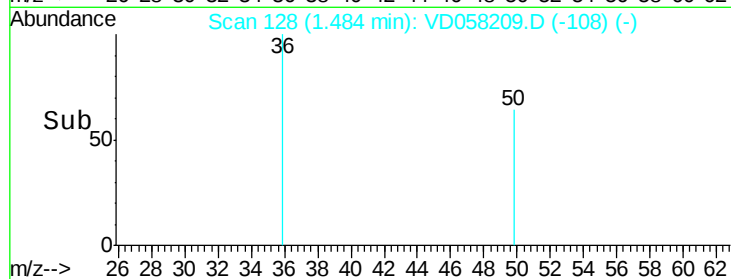
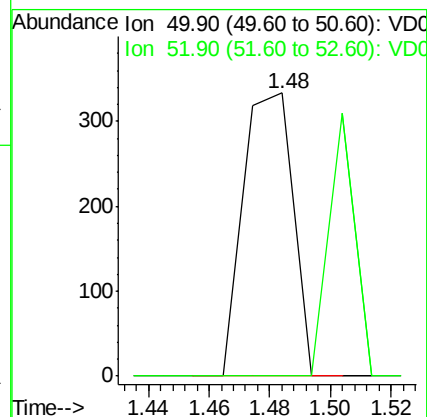
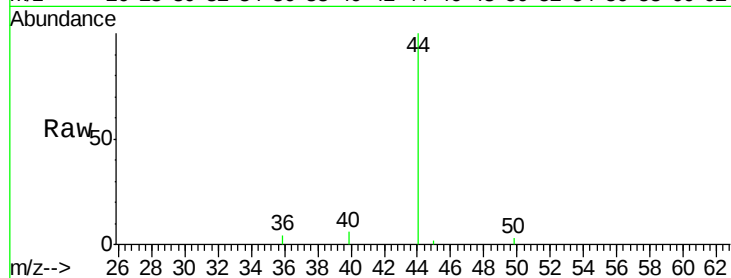
PL-01-061818-B

Tot Ion: 50 Resp: 385

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#



#13

Acrolein

Concen: 1.556 ug/l

RT: 2.52 min Scan# 233

Delta R.T. 0.05 min

Lab File: VD058209.D

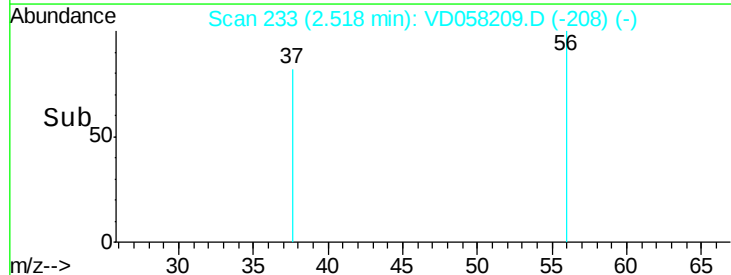
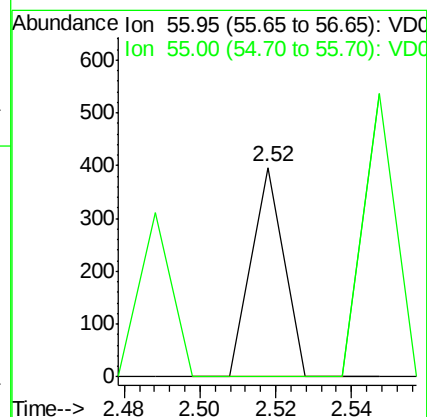
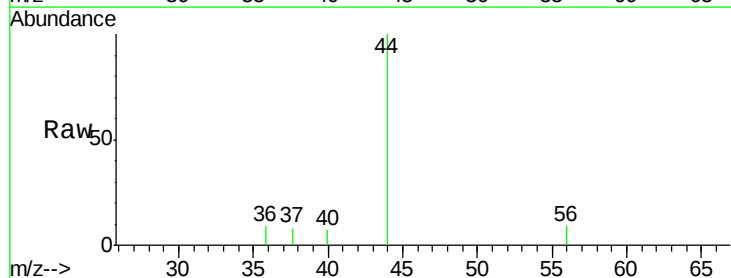
Acq: 20 Jun 2018 14:51

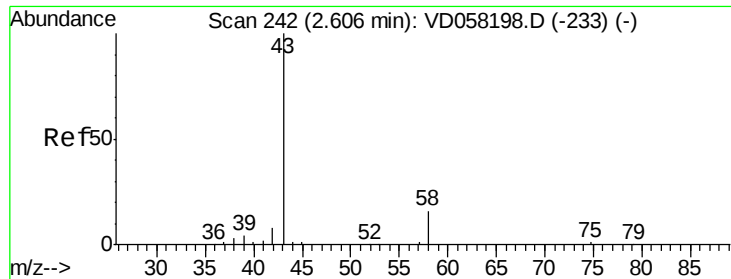
Tgt Ion: 56 Resp: 235

Ion Ratio Lower Upper

56 100

55 0.0 62.1 93.1#





#16

Acetone

Concen: 16.487 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

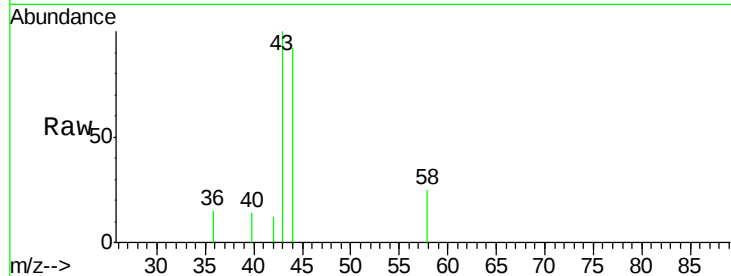
PL-01-061818-B

Tot Ion: 43 Resp: 18082

Ion Ratio Lower Upper

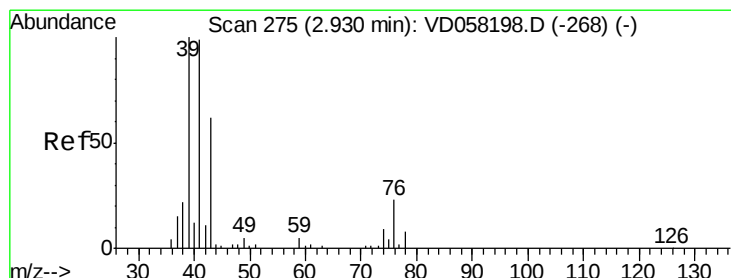
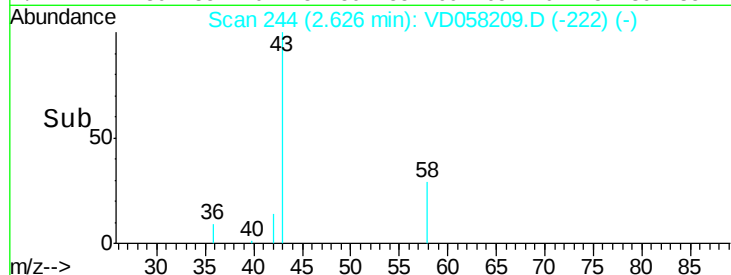
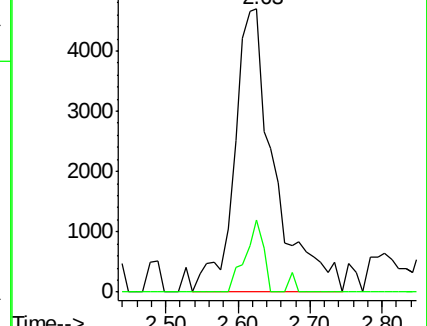
43 100

58 25.4 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.281 ug/l

RT: 2.93 min Scan# 275

Delta R.T. 0.00 min

Lab File: VD058209.D

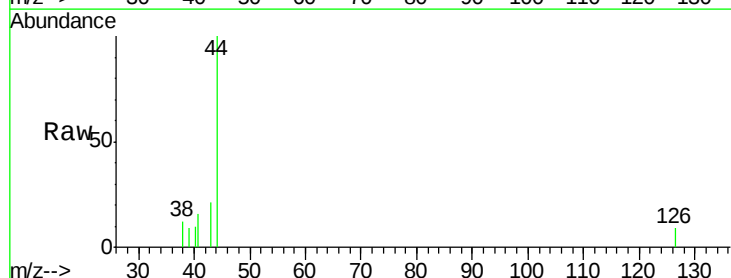
Acq: 20 Jun 2018 14:51

Tgt Ion: 43 Resp: 2997

Ion Ratio Lower Upper

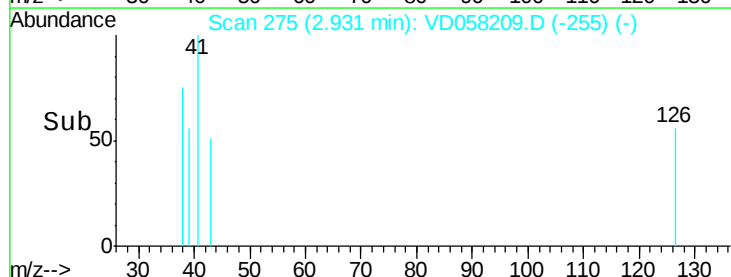
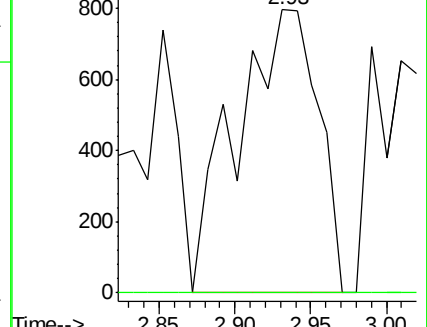
43 100

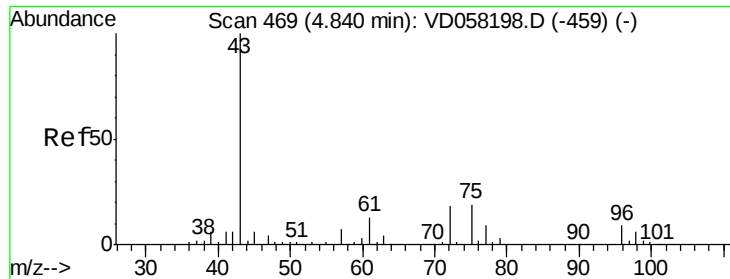
74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 1.020 ug/l

RT: 4.86 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

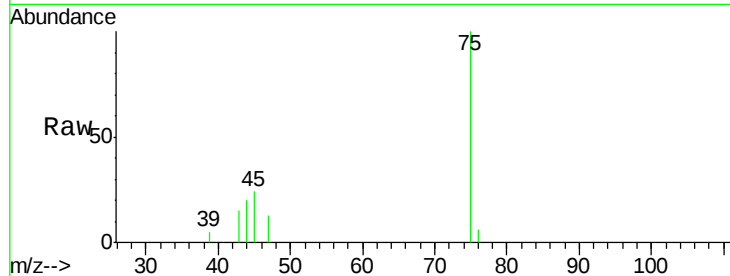
PL-01-061818-B

Tot Ion: 43 Resp: 2438

Ion Ratio Lower Upper

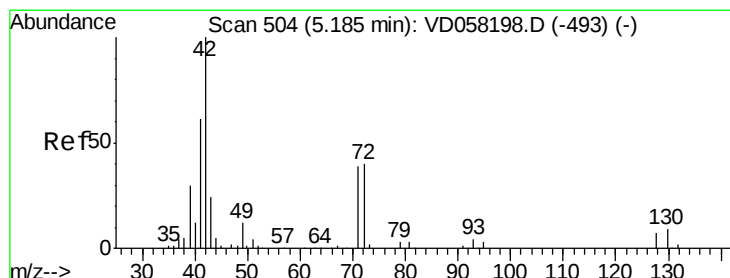
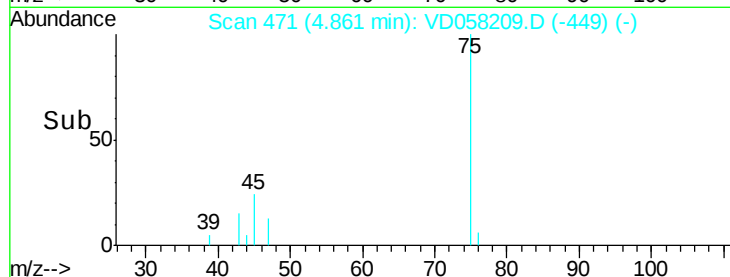
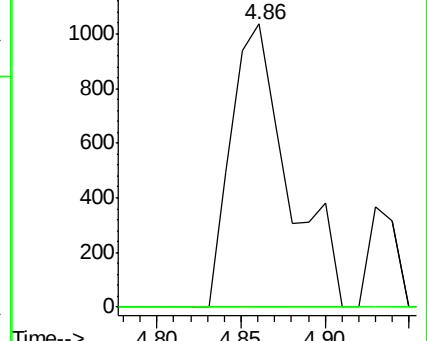
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.361 ug/l

RT: 5.19 min Scan# 504

Delta R.T. 0.00 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

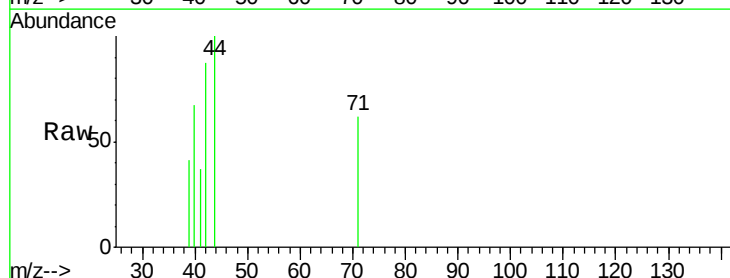
Tgt Ion: 42 Resp: 1732

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

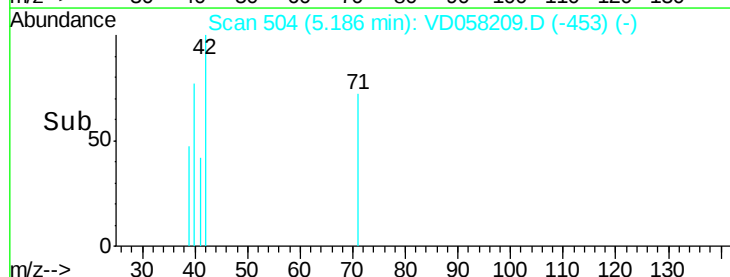
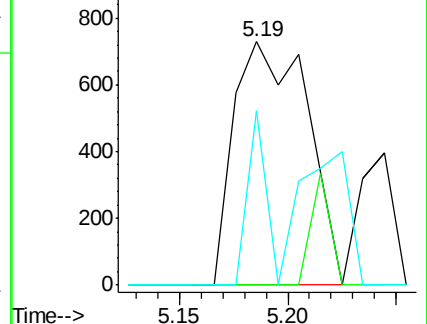
71 17.8 30.1 45.1#

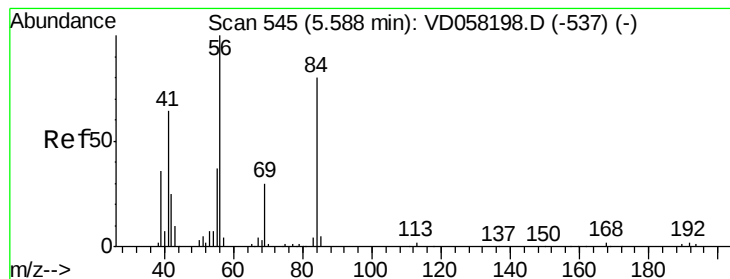


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 5.64 min Scan# 550

Delta R.T. 0.05 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

PL-01-061818-B

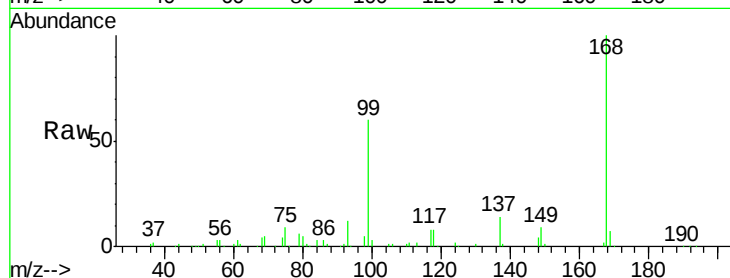
Tot Ion: 56 Resp: 17673

Ion Ratio Lower Upper

56 100

69 170.2 23.6 35.4#

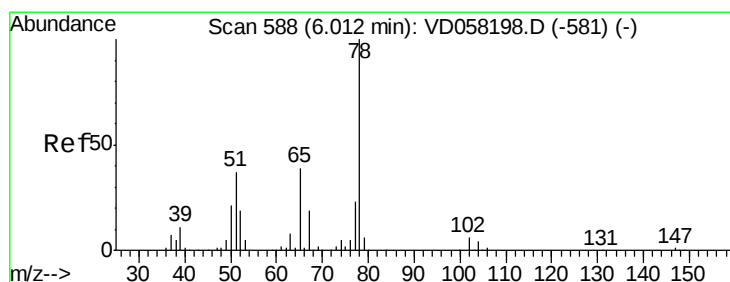
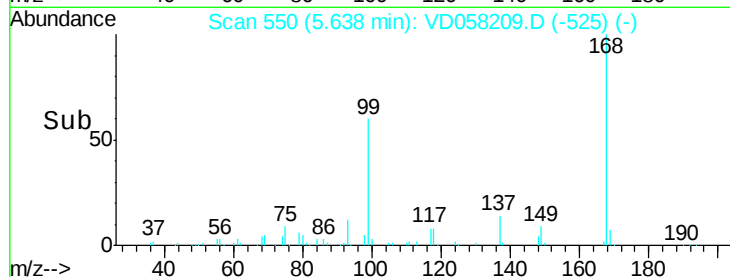
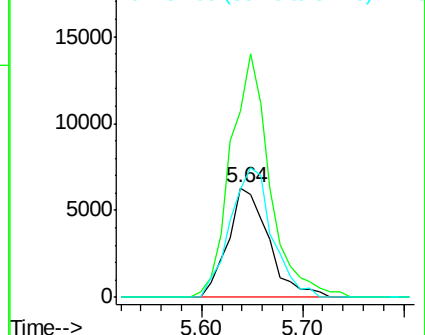
84 98.9 65.2 97.8#



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: VD058209.D

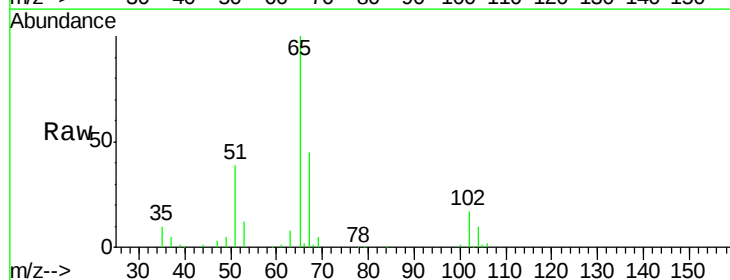
Acq: 20 Jun 2018 14:51

Tgt Ion: 65 Resp: 390376

Ion Ratio Lower Upper

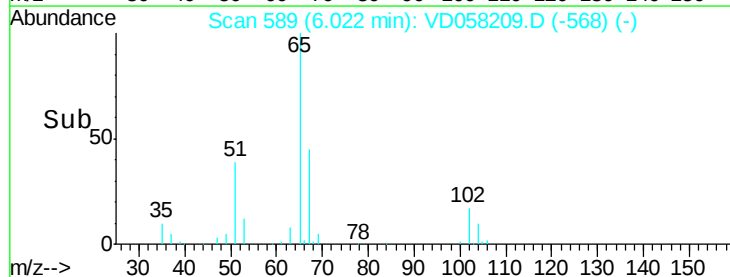
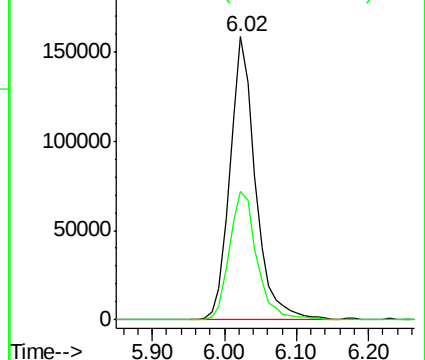
65 100

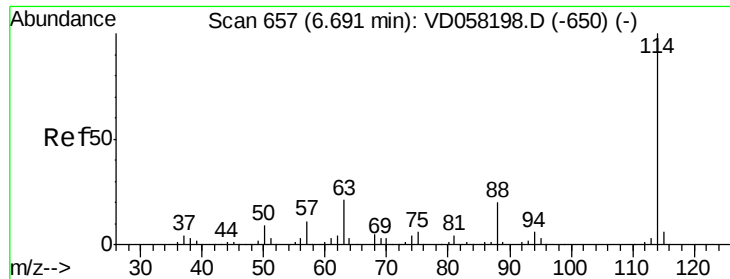
67 45.2 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

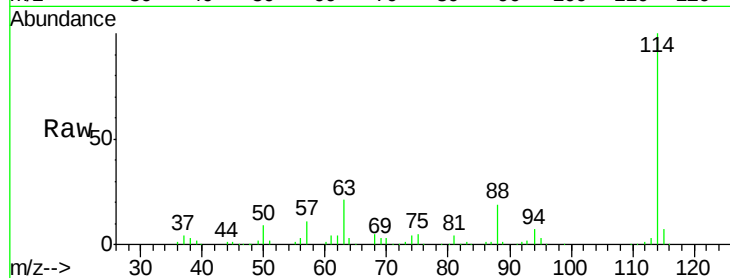




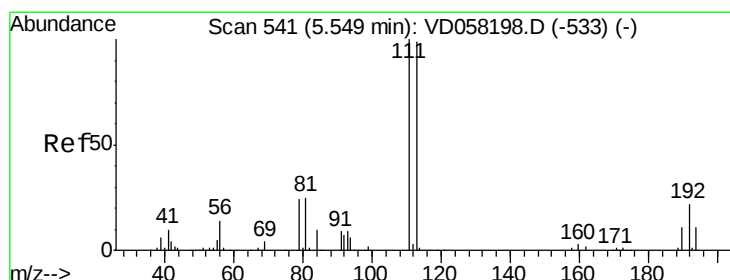
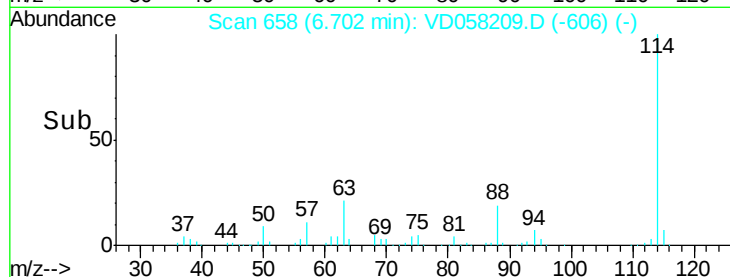
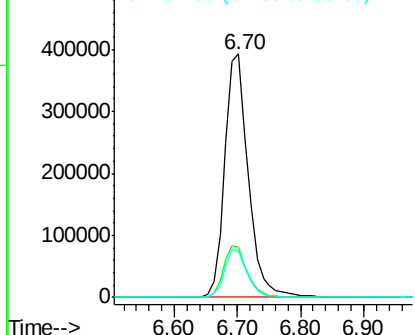
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058209.D
 Acq: 20 Jun 2018 14:51

Instrument :
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Tot Ion:114 Resp: 1011070
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.6
 88 19.2 0.0 40.6

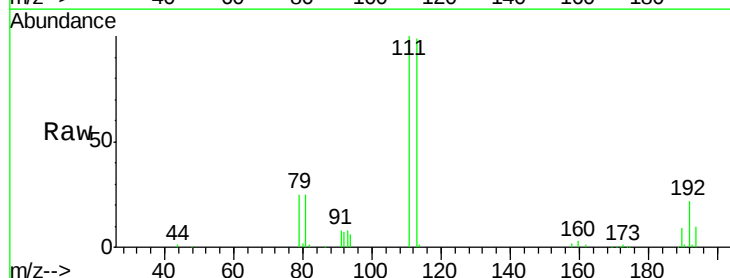


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

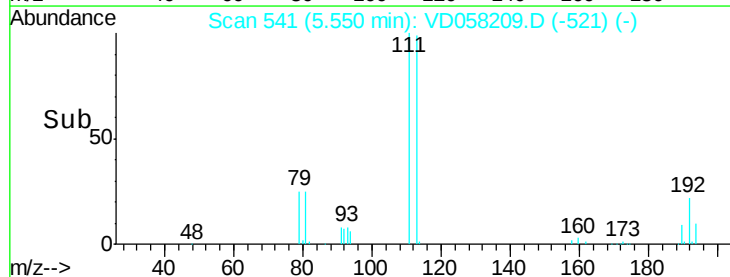
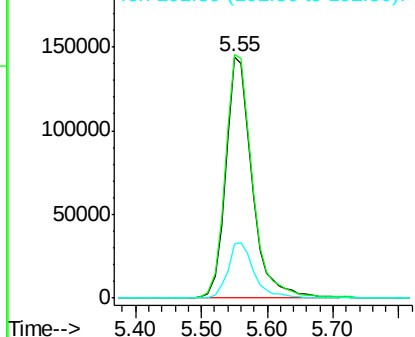


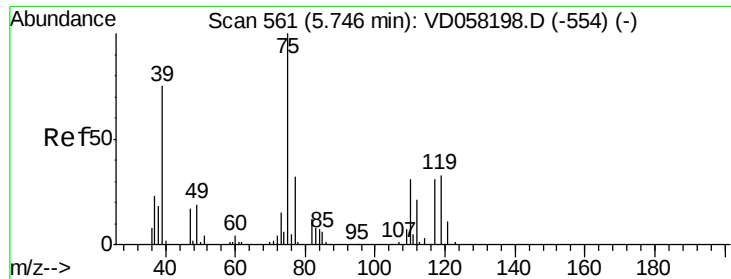
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. 0.00 min
 Lab File: VD058209.D
 Acq: 20 Jun 2018 14:51

Tgt Ion:113 Resp: 404826
 Ion Ratio Lower Upper
 113 100
 111 101.0 80.6 121.0
 192 22.4 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: 6.452 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.10 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

PL-01-061818-B

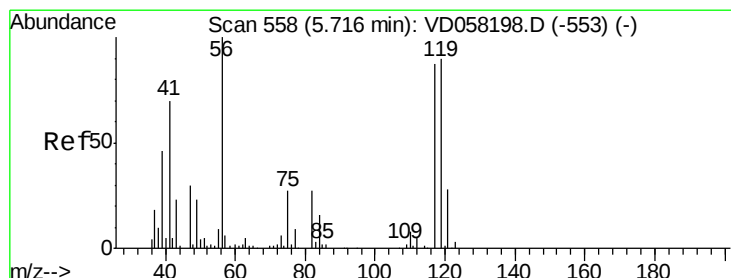
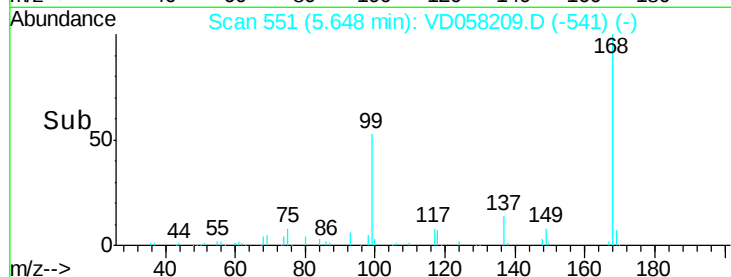
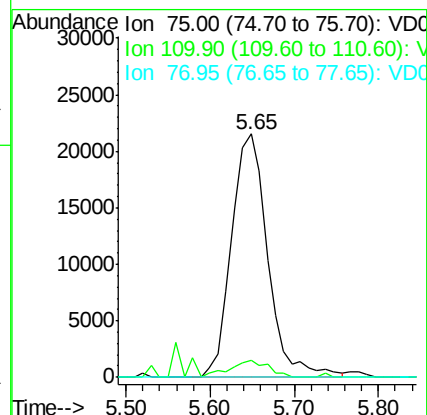
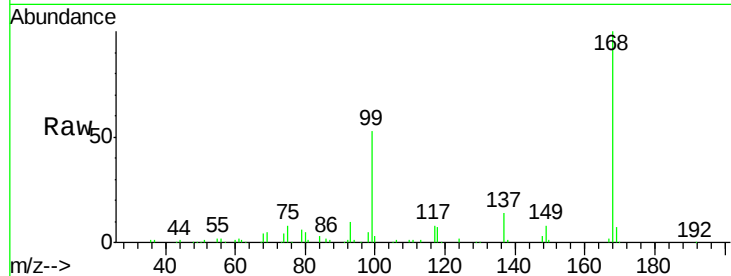
Tot Ion: 75 Resp: 64531

Ion Ratio Lower Upper

75 100

110 6.8 15.4 46.4#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 6.460 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.07 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

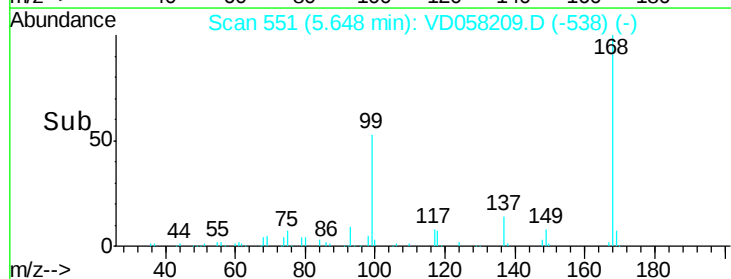
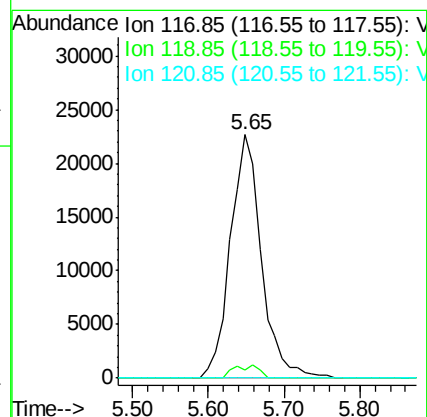
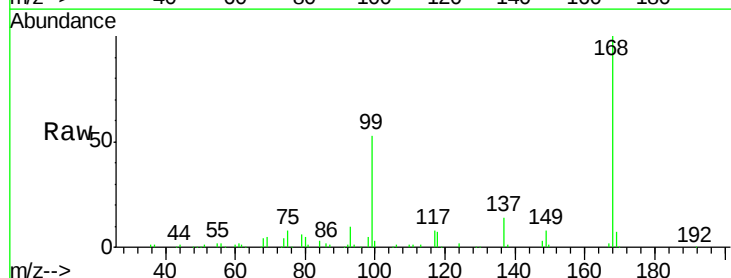
Tgt Ion: 117 Resp: 64204

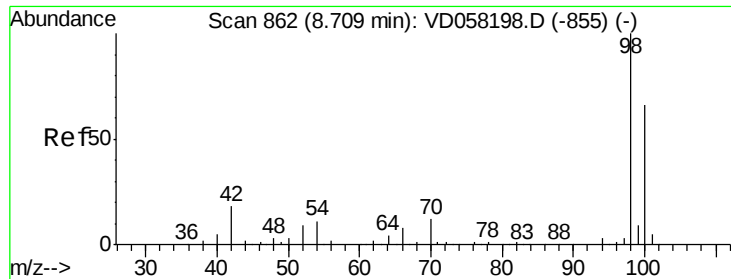
Ion Ratio Lower Upper

117 100

119 3.3 78.8 118.2#

121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.00 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

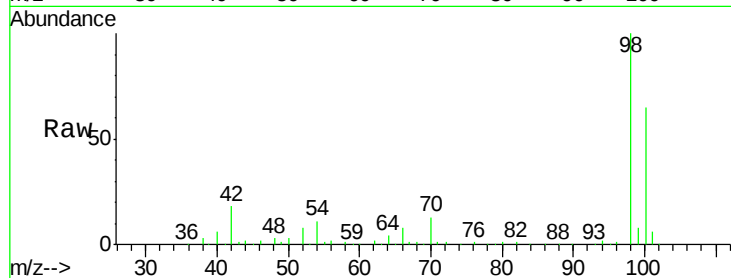
PL-01-061818-B

Tot Ion: 98 Resp: 898488

Ion Ratio Lower Upper

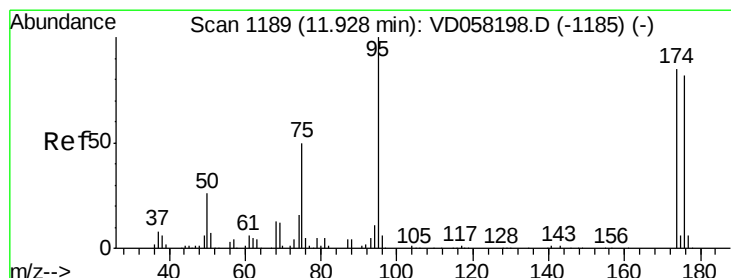
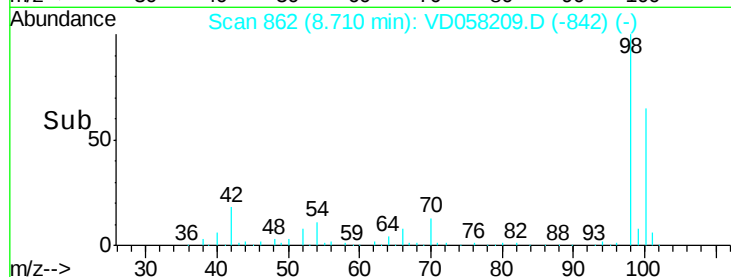
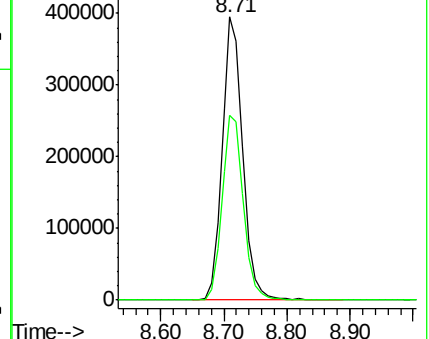
98 100

100 65.5 53.6 80.4



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: VD058209.D

Acq: 20 Jun 2018 14:51

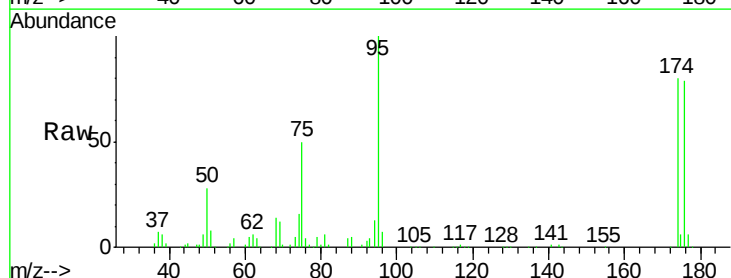
Tgt Ion: 95 Resp: 356728

Ion Ratio Lower Upper

95 100

174 80.3 0.0 170.2

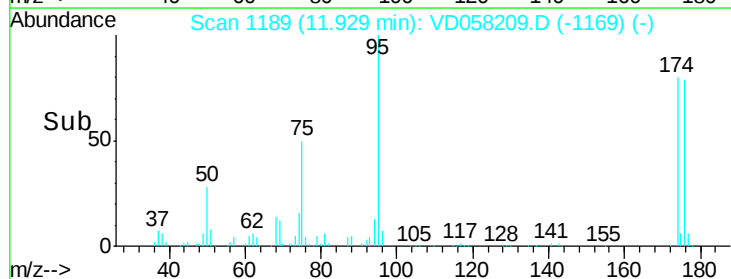
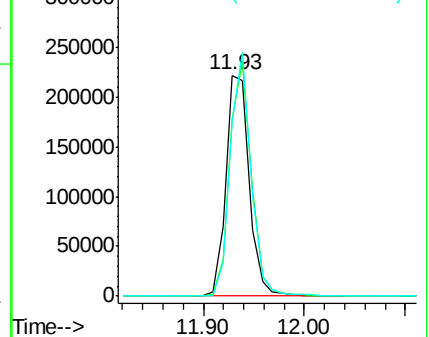
176 79.0 0.0 164.6

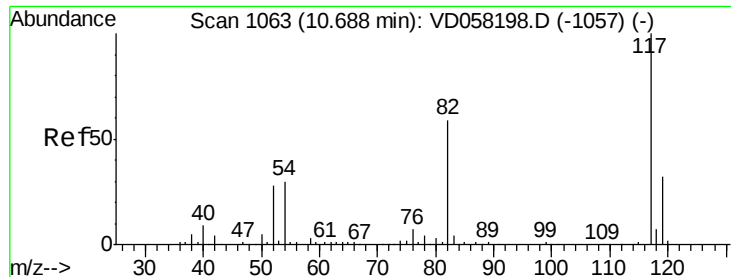


Abundance Ion 95.00 (94.70 to 95.70): VDC

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: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

PL-01-061818-B

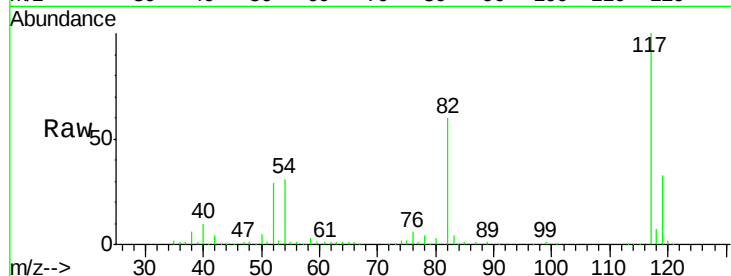
Tot Ion:117 Resp: 809903

Ion Ratio Lower Upper

117 100

82 60.5 47.0 70.6

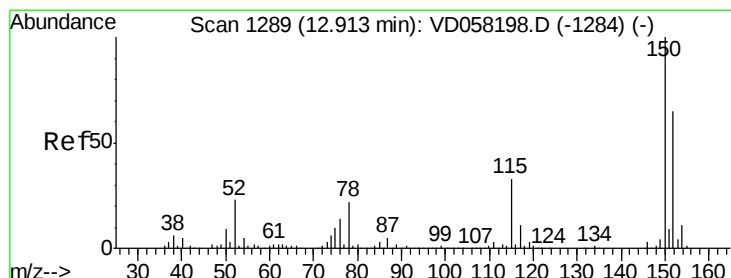
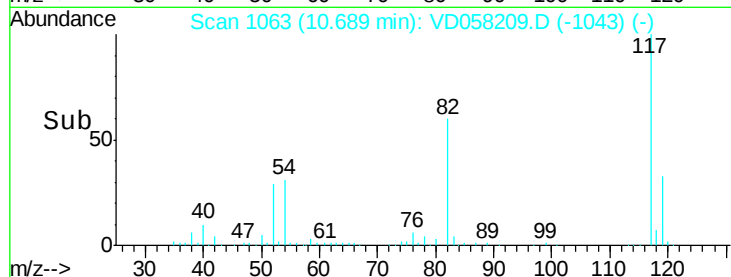
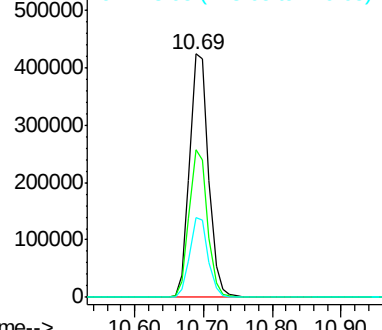
119 32.8 25.3 37.9



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# 1289

Delta R.T. 0.00 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

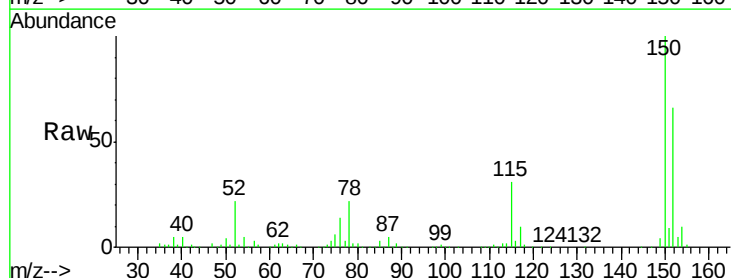
Tgt Ion:152 Resp: 406971

Ion Ratio Lower Upper

152 100

115 47.9 25.1 75.3

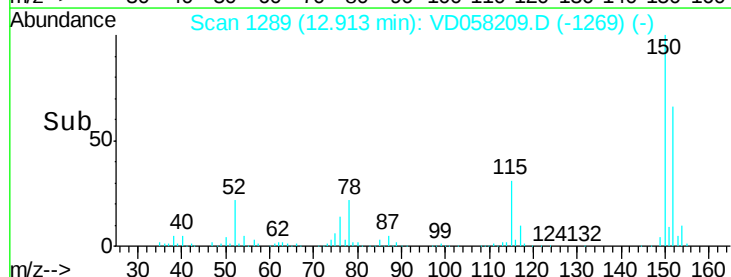
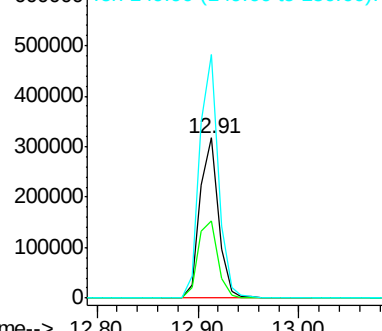
150 152.2 0.0 308.8

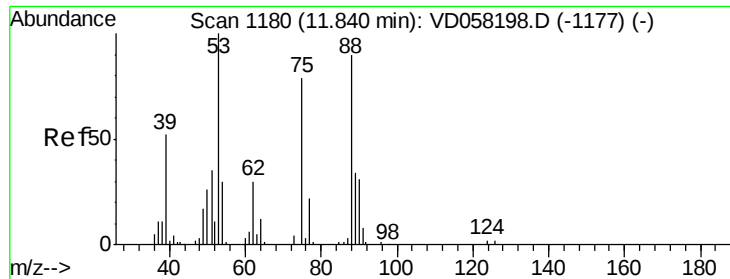


Abundance Ion 151.90 (151.60 to 152.60): V

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: 118.798 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058209.D

Acq: 20 Jun 2018 14:51

Instrument :

MSVOA_D

ClientSampleId :

PL-01-061818-B

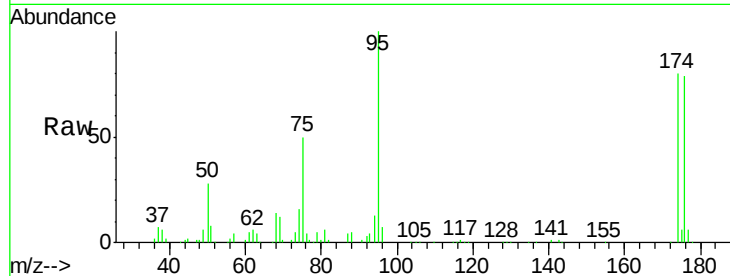
Tot Ion: 75 Resp: 172161

Ion Ratio Lower Upper

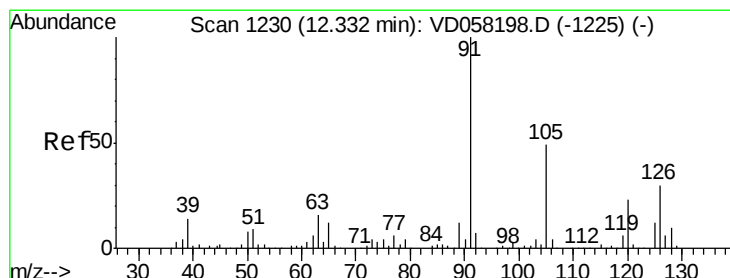
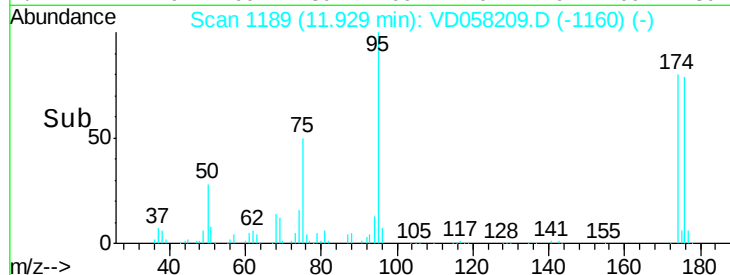
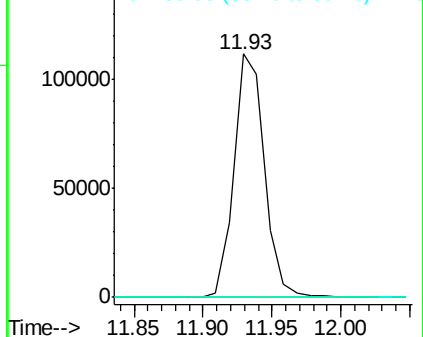
75 100

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: VD058209.D

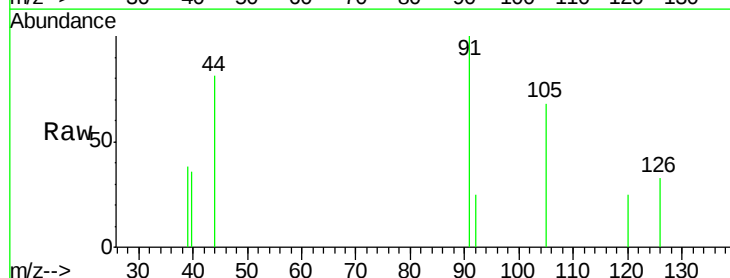
Acq: 20 Jun 2018 14:51

Tgt Ion: 91 Resp: 1513

Ion Ratio Lower Upper

91 100

126 32.9 14.9 44.9



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

