

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058213.D
 Acq On : 20 Jun 2018 16:45
 Operator : VA/AP
 Sample : J3533-01RE
 Misc : 9.95µl/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-02-1-2RE

Quant Time: Jun 21 01:46:09 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	5.64	168	715193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.70	114	934571	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	640113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	236903	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	346594	47.98	ug/l	0.01
Spiked Amount	50.000		Recovery	=	95.96%	
35) Dibromofluoromethane	5.55	113	360542	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	8.71	98	765072	41.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.14%	
62) 4-Bromofluorobenzene	11.93	95	242625	32.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.54%	

Target Compounds

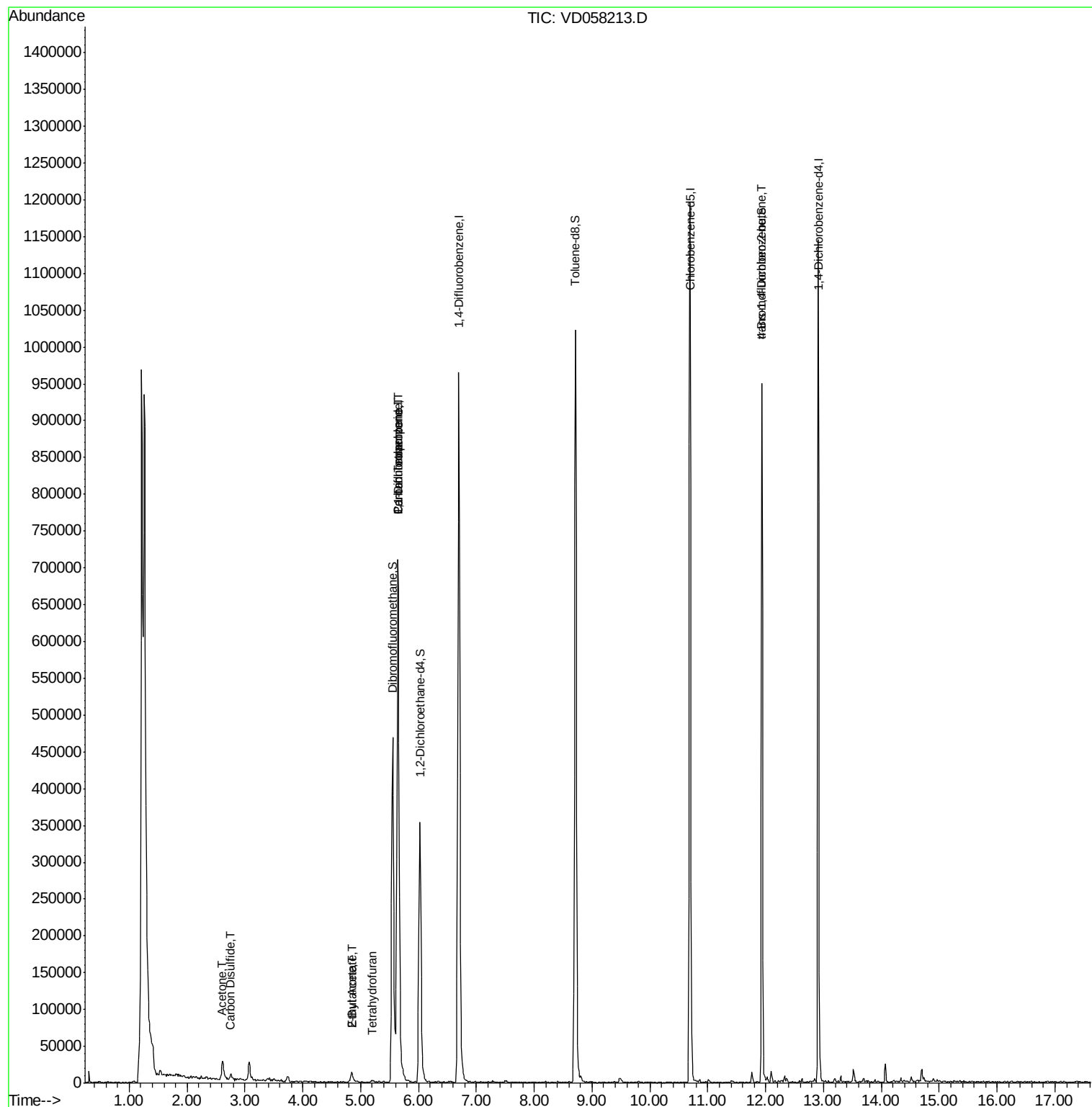
						Qvalue
2) Dichlorodifluoromethane	1.34	85	1394	Below Cal	#	43
3) Chloromethane	1.49	50	231	Below Cal	#	43
16) Acetone	2.61	43	52365	53.004	ug/l #	90
17) Carbon Disulfide	2.76	76	10451	1.250	ug/l #	82
20) Methylene Chloride	3.07	84	11288	Below Cal		97
25) 2-Butanone	4.83	43	23067	10.713	ug/l	98
29) Tetrahydrofuran	5.20	42	1871	1.632	ug/l #	76
31) Cyclohexane	5.64	56	19024	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	53850	5.825	ug/l #	50
37) Ethyl Acetate	4.83	43	23067	4.379	ug/l #	72
38) Carbon Tetrachloride	5.64	117	60513	6.587	ug/l #	15
81) trans-1,4-Dichloro-2-buten	11.93	75	121064	143.511	ug/l #	1
82) 4-Chlorotoluene	12.33	91	2261	Below Cal		95

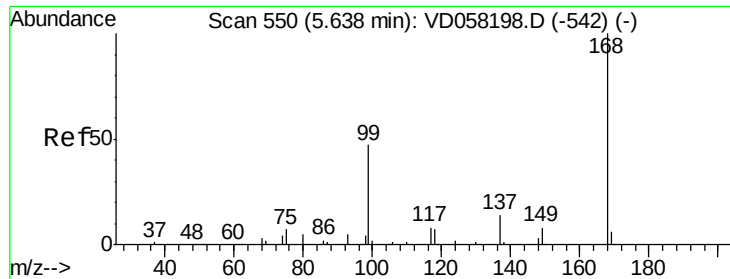
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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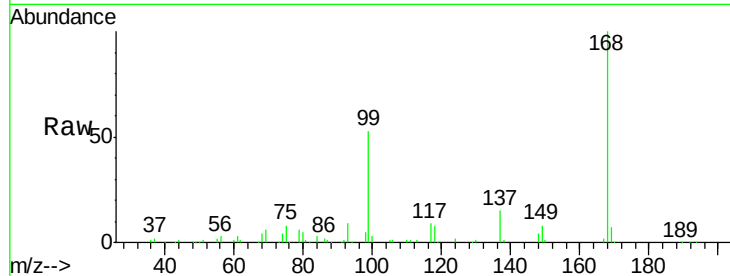


#1

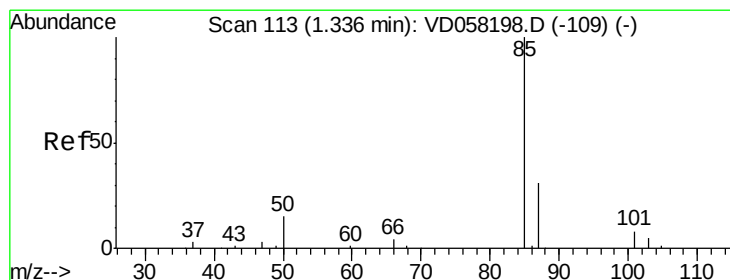
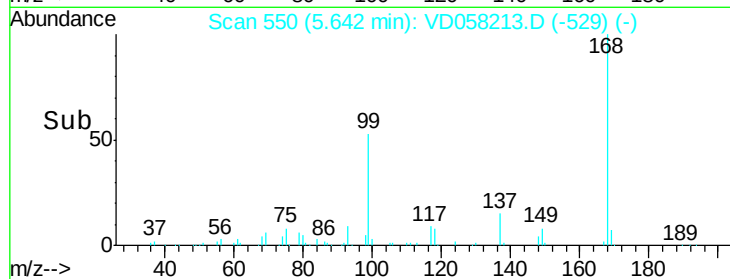
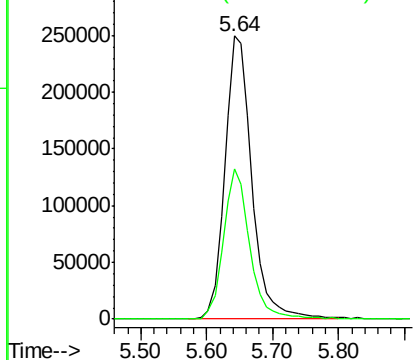
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. 0.00 min
 Lab File: VD058213.D
 Acq: 20 Jun 2018 16:45

Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-02-1-2RE

Tot Ion:168 Resp: 715193
 Ion Ratio Lower Upper
 168 100
 99 53.2 41.1 61.7



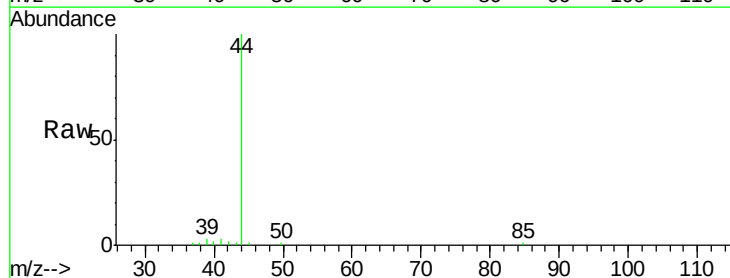
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



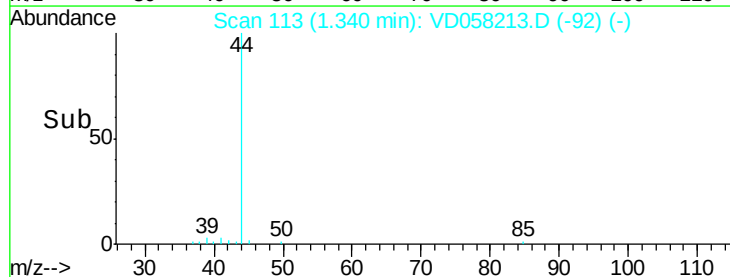
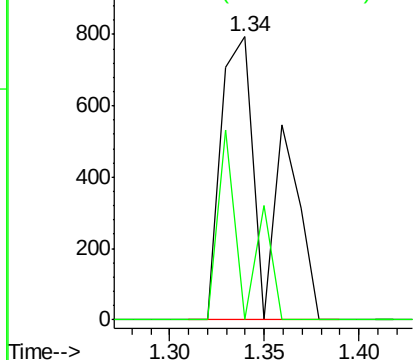
#2

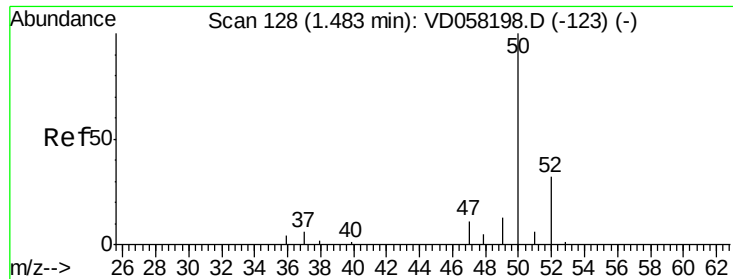
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.34 min Scan# 113
 Delta R.T. 0.00 min
 Lab File: VD058213.D
 Acq: 20 Jun 2018 16:45

Tgt Ion: 85 Resp: 1394
 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: 1.49 min Scan# 128

Delta R.T. 0.00 min

Lab File: VD058213.D

Acq: 20 Jun 2018 16:45

Instrument :

MSVOA_D

ClientSampleId :

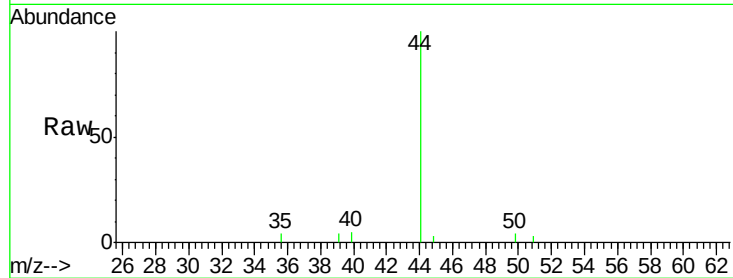
ZER-SB-02-1-2RE

Tot Ion: 50 Resp: 231

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.49

400

300

200

100

0

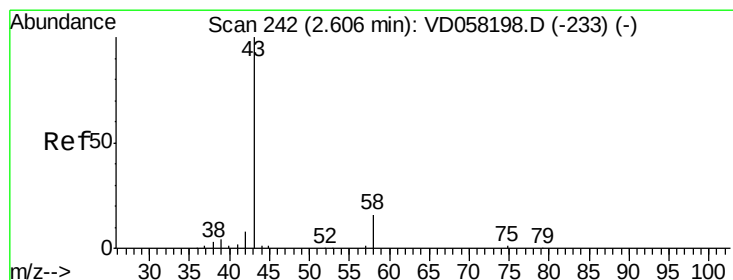
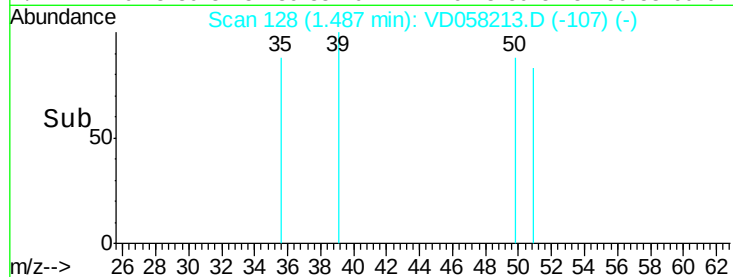
1.46

1.48

1.50

1.52

Time-->



#16

Acetone

Concen: 53.004 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058213.D

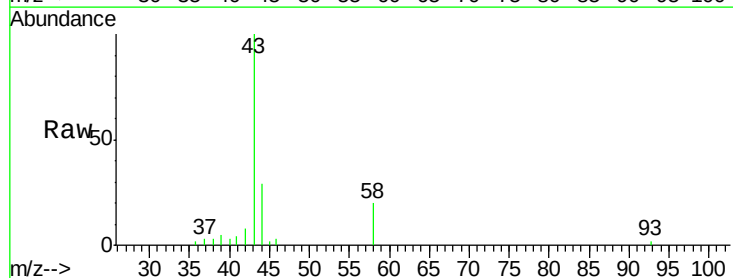
Acq: 20 Jun 2018 16:45

Tgt Ion: 43 Resp: 52365

Ion Ratio Lower Upper

43 100

58 20.1 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.61

15000

10000

5000

0

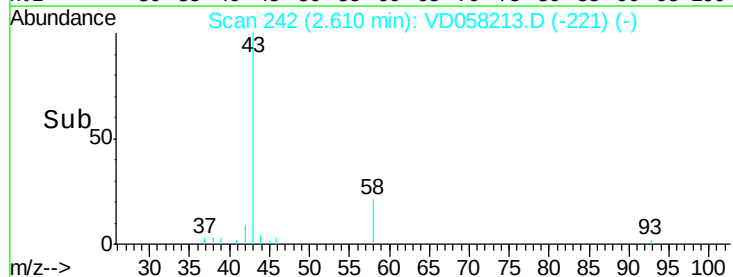
2.50

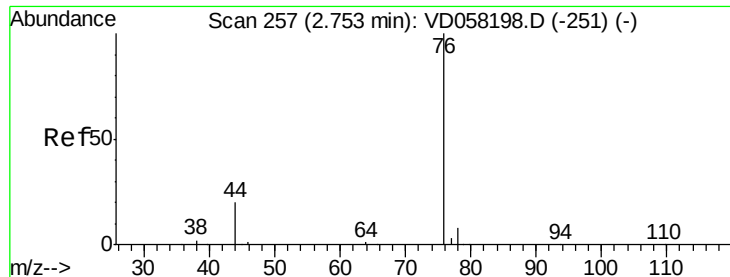
2.60

2.70

2.80

Time-->





#17

Carbon Disulfide

Concen: 1.250 ug/l

RT: 2.76 min Scan# 257

Delta R.T. 0.00 min

Lab File: VD058213.D

Acq: 20 Jun 2018 16:45

Instrument :

MSVOA_D

ClientSampleId :

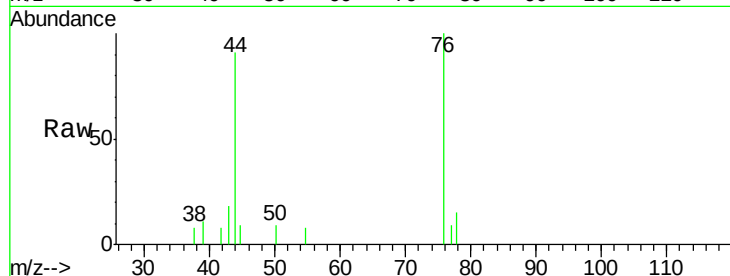
ZER-SB-02-1-2RE

Tot Ion: 76 Resp: 10451

Ion Ratio Lower Upper

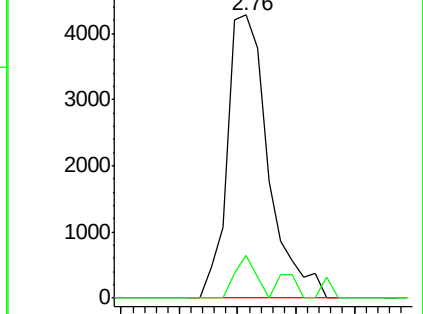
76 100

78 15.0 6.8 10.2#

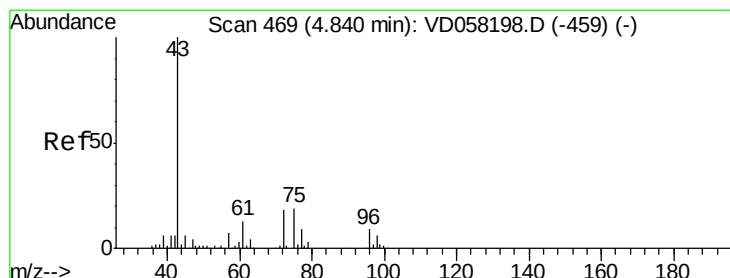
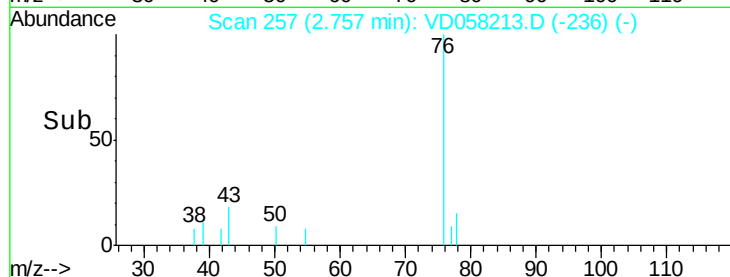


Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



Time-->



#25

2-Butanone

Concen: 10.713 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058213.D

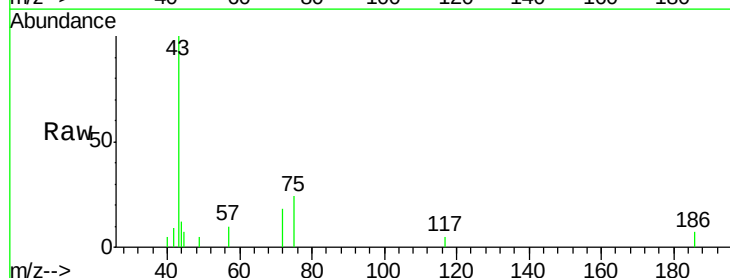
Acq: 20 Jun 2018 16:45

Tgt Ion: 43 Resp: 23067

Ion Ratio Lower Upper

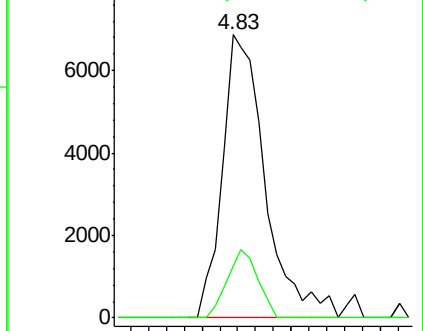
43 100

72 18.4 14.1 21.1

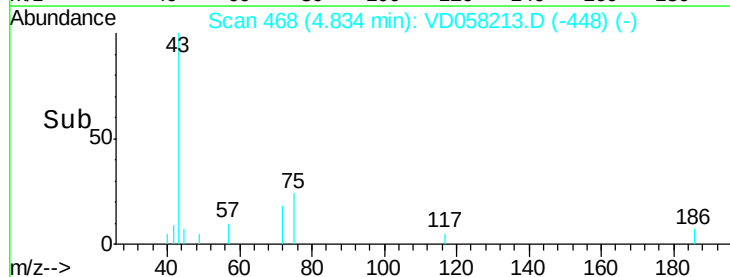


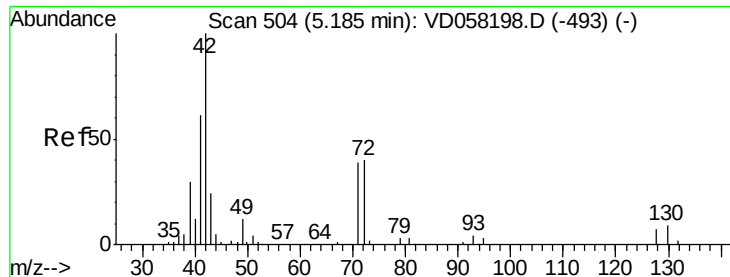
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->

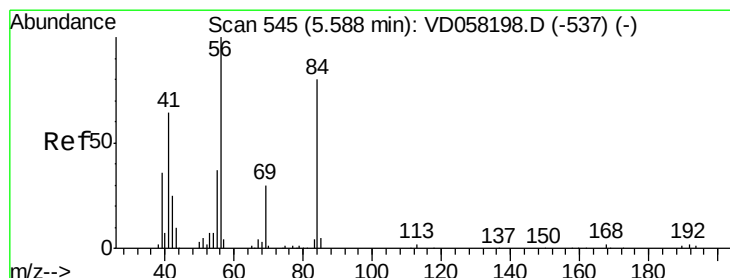
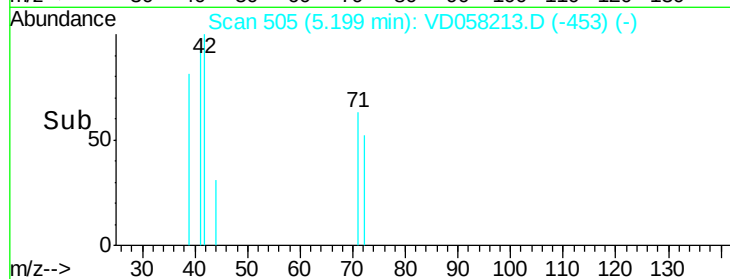
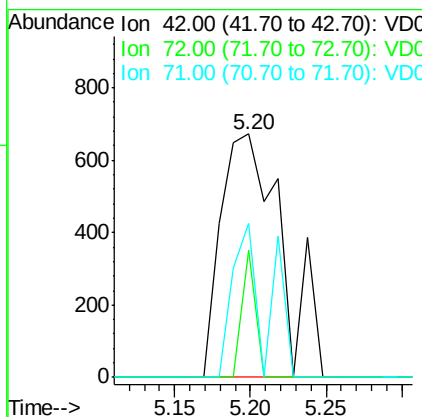
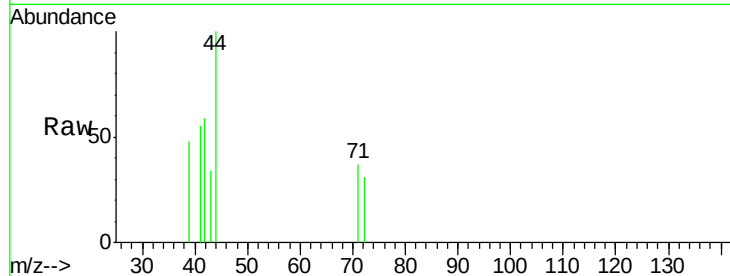




#29
Tetrahydrofuran
Concen: 1.632 ug/l
RT: 5.20 min Scan# 505
Delta R.T. 0.01 min
Lab File: VD058213.D
Acq: 20 Jun 2018 16:45

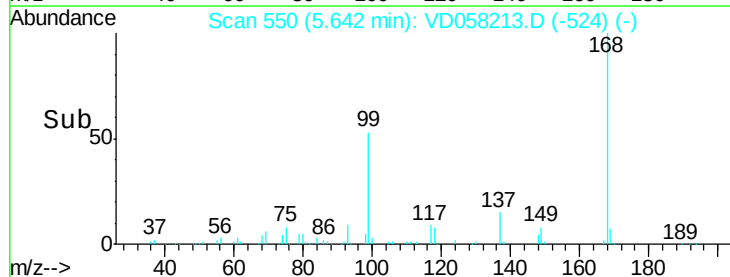
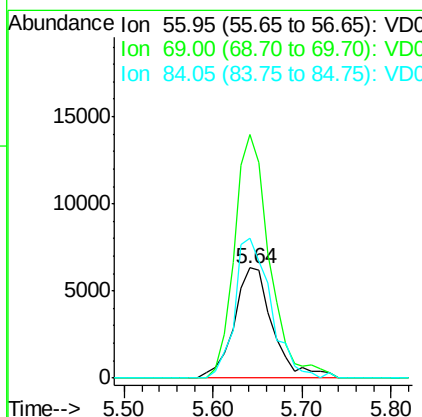
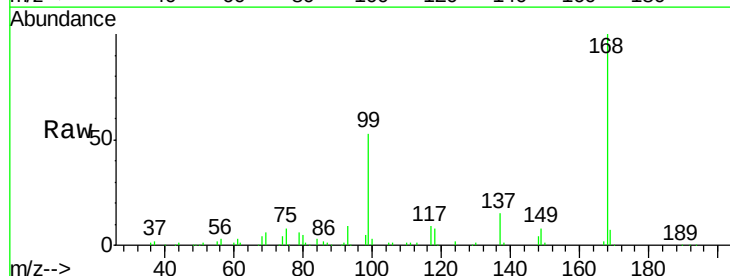
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-02-1-2RE

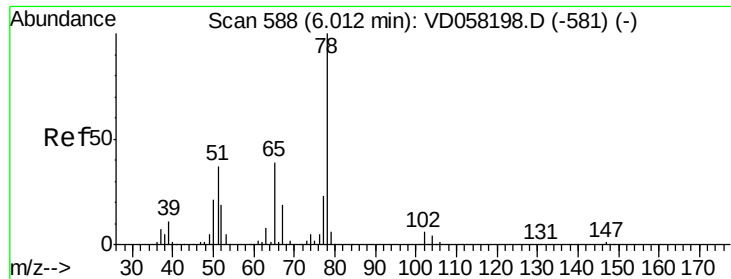
Tot Ion: 42 Resp: 1871
Ion Ratio Lower Upper
42 100
72 11.1 30.2 45.2#
71 35.3 30.1 45.1



#31
Cyclohexane
Concen: Below Cal
RT: 5.64 min Scan# 550
Delta R.T. 0.05 min
Lab File: VD058213.D
Acq: 20 Jun 2018 16:45

Tgt Ion: 56 Resp: 19024
Ion Ratio Lower Upper
56 100
69 220.7 23.6 35.4#
84 126.5 65.2 97.8#

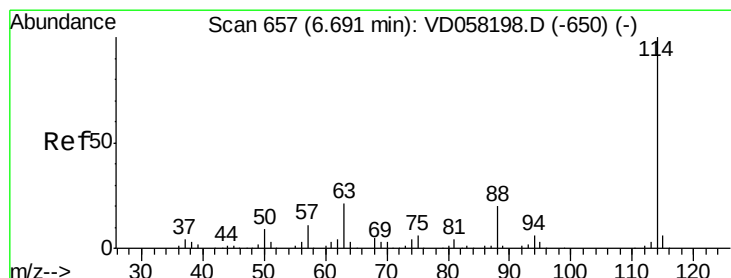
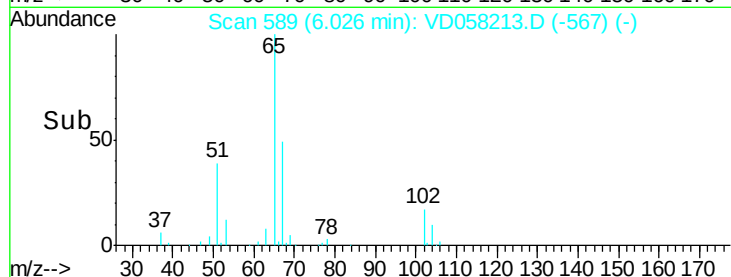
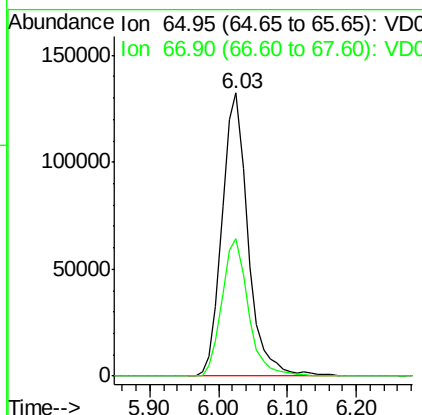
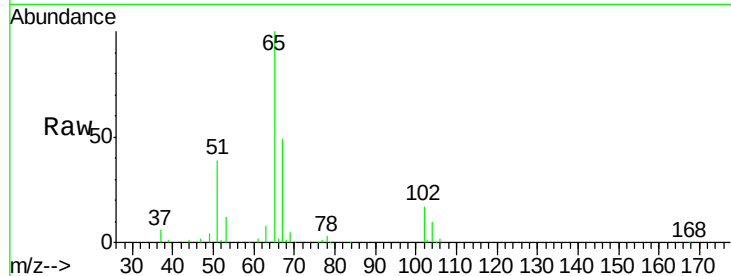




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 589
 Delta R.T. 0.01 min
 Lab File: VD058213.D
 Acq: 20 Jun 2018 16:45

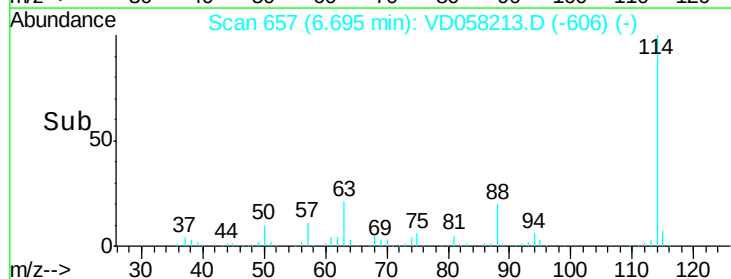
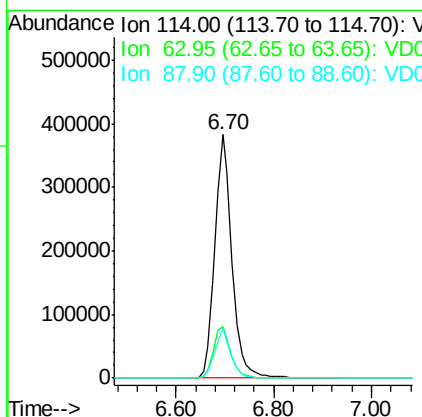
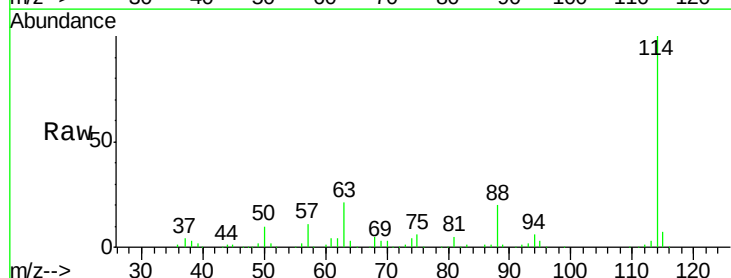
Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-02-1-2RE

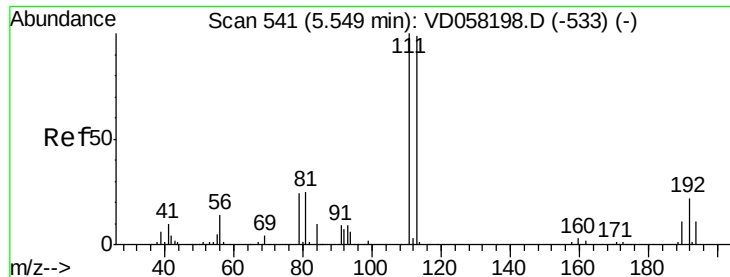
Tot Ion: 65 Resp: 346594
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VD058213.D
 Acq: 20 Jun 2018 16:45

Tgt Ion: 114 Resp: 934571
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.6
 88 20.5 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. 0.00 min

Lab File: VD058213.D

Acq: 20 Jun 2018 16:45

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-02-1-2RE

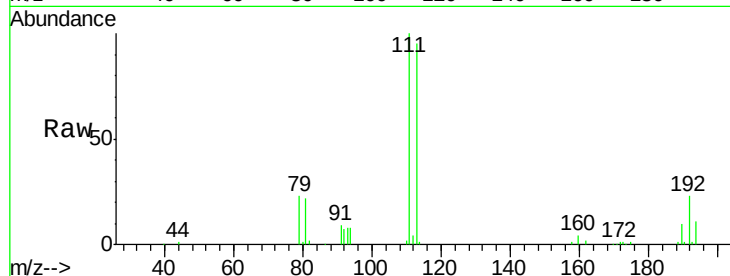
Tot Ion:113 Resp: 360542

Ion Ratio Lower Upper

113 100

111 105.2 80.6 121.0

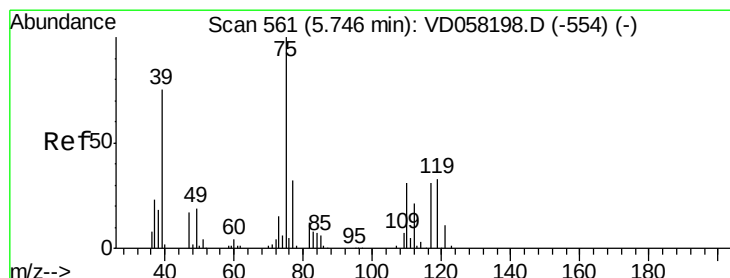
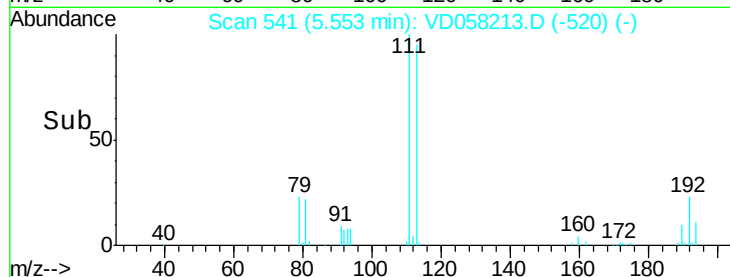
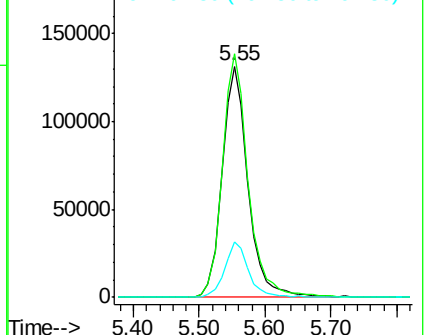
192 24.0 17.8 26.6



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: 5.825 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.10 min

Lab File: VD058213.D

Acq: 20 Jun 2018 16:45

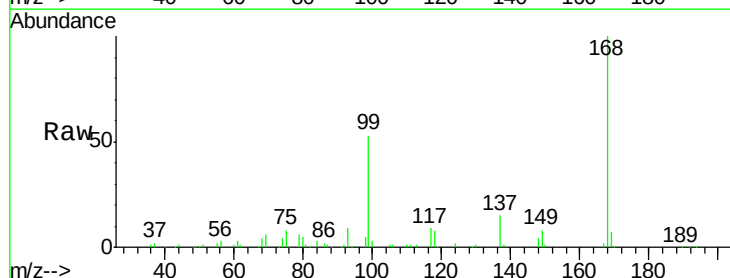
Tgt Ion: 75 Resp: 53850

Ion Ratio Lower Upper

75 100

110 7.4 15.4 46.4#

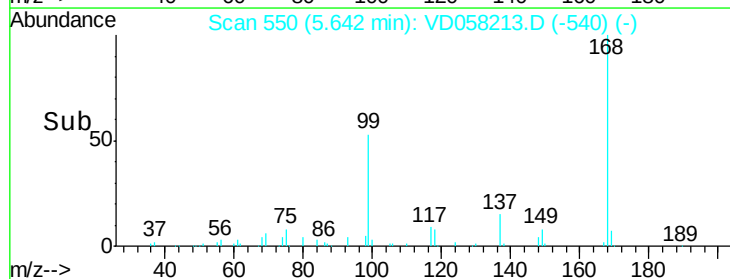
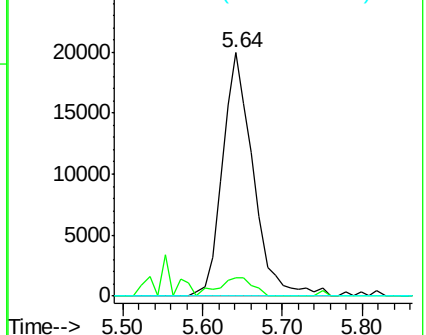
77 0.0 25.4 38.2#

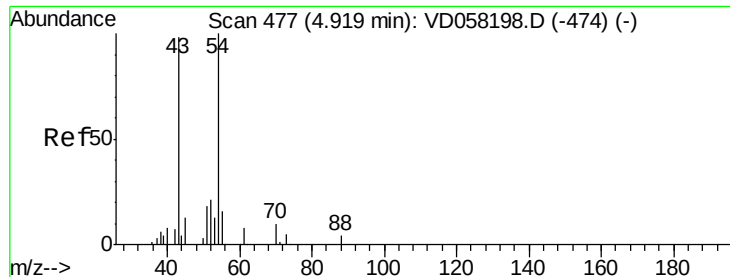


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 4.379 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.08 min

Lab File: VD058213.D

Acq: 20 Jun 2018 16:45

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-02-1-2RE

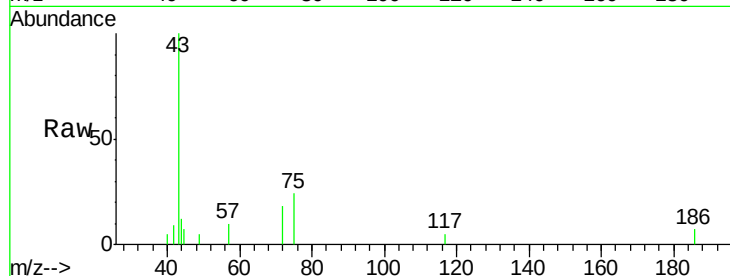
Tot Ion: 43 Resp: 23067

Ion Ratio Lower Upper

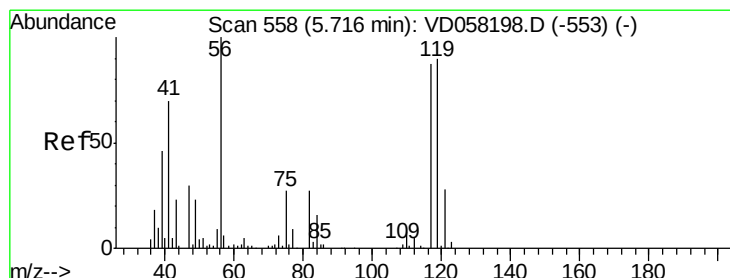
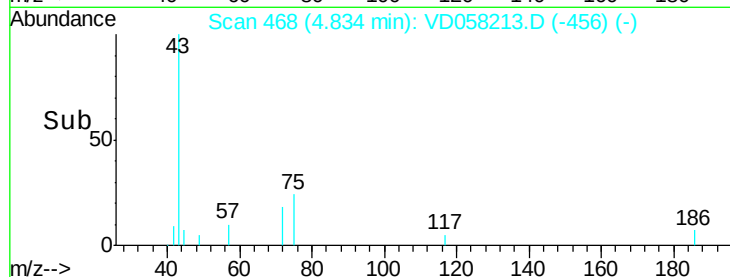
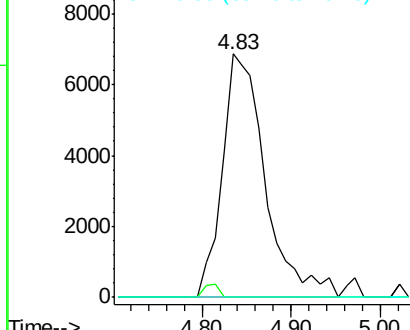
43 100

61 0.0 10.3 15.5#

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: 6.587 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.07 min

Lab File: VD058213.D

Acq: 20 Jun 2018 16:45

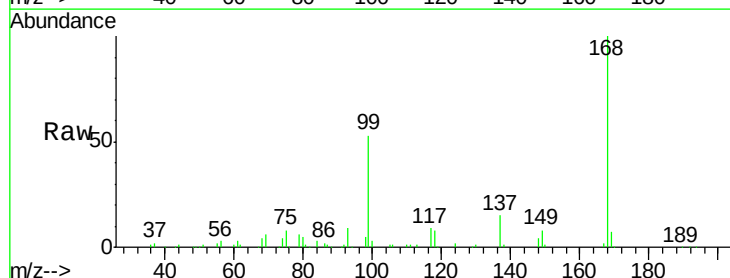
Tgt Ion: 117 Resp: 60513

Ion Ratio Lower Upper

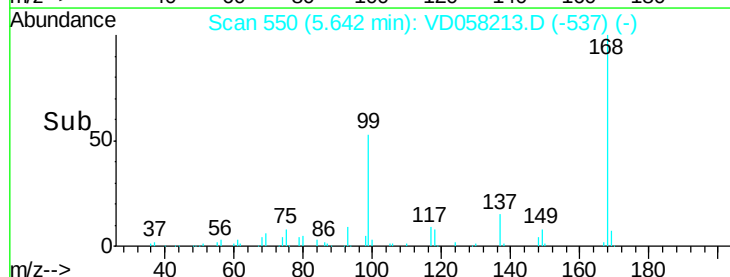
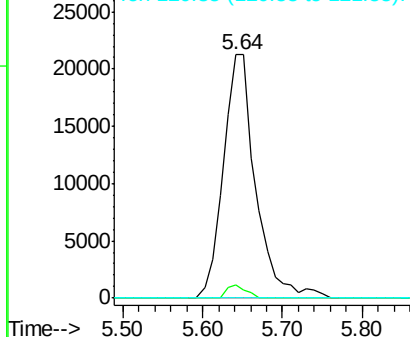
117 100

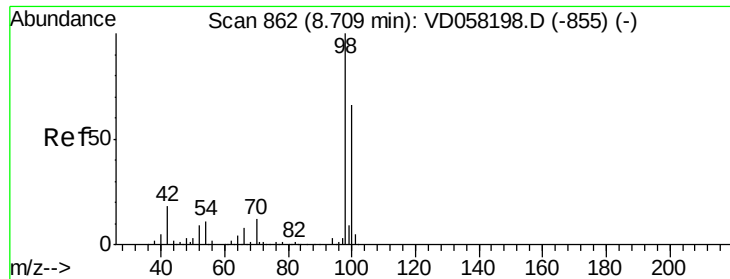
119 5.7 78.8 118.2#

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: VD058213.D

Acq: 20 Jun 2018 16:45

Instrument :

MSVOA_D

ClientSampleId :

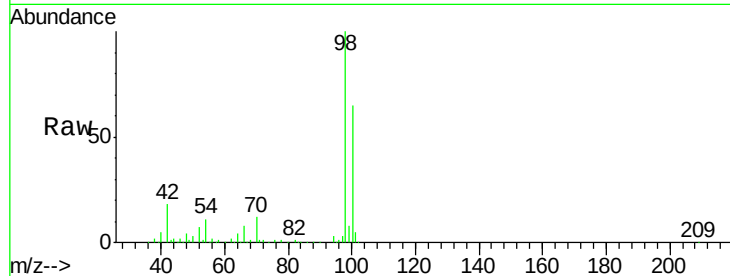
ZER-SB-02-1-2RE

Tot Ion: 98 Resp: 765072

Ion Ratio Lower Upper

98 100

100 65.2 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

8.71

400000

300000

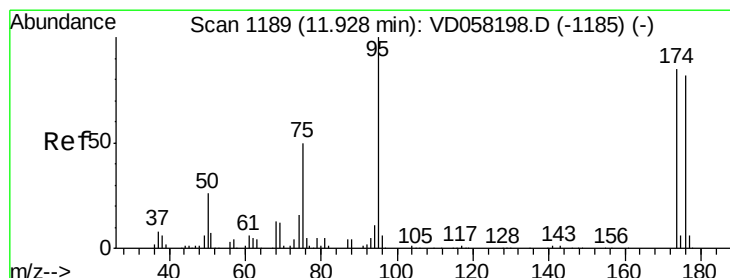
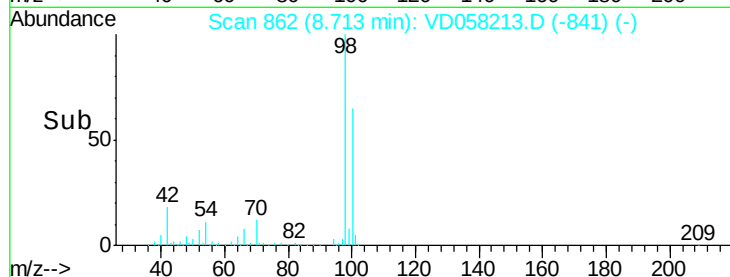
200000

100000

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: VD058213.D

Acq: 20 Jun 2018 16:45

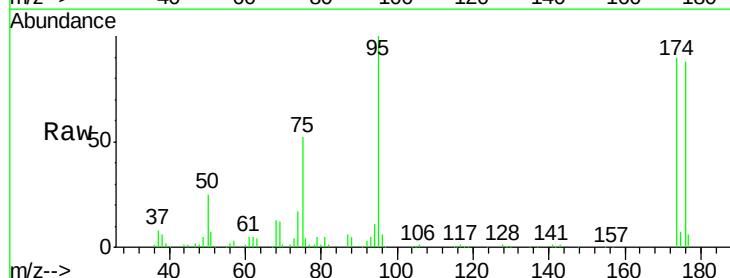
Tgt Ion: 95 Resp: 242625

Ion Ratio Lower Upper

95 100

174 89.9 0.0 170.2

176 87.8 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

11.93

200000

150000

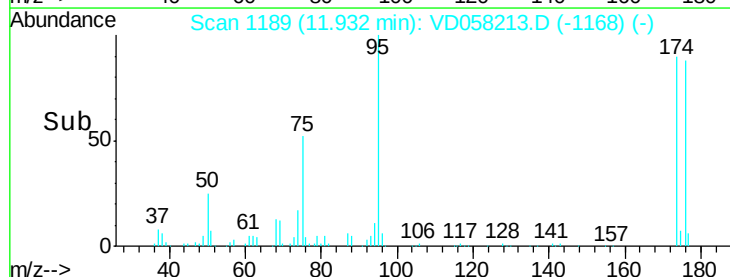
100000

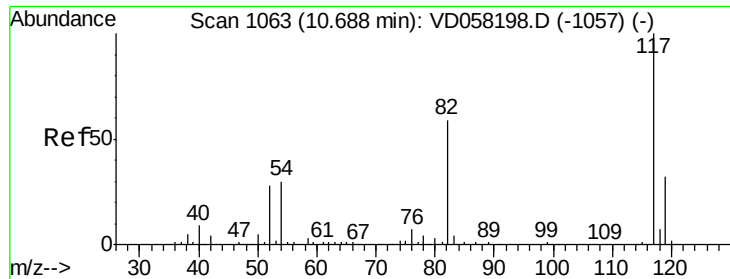
50000

0

11.90 12.00 12.10

Time-->

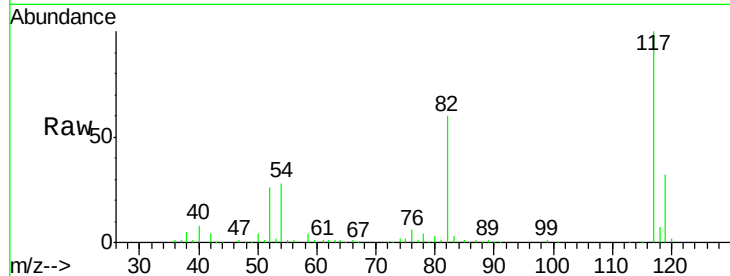




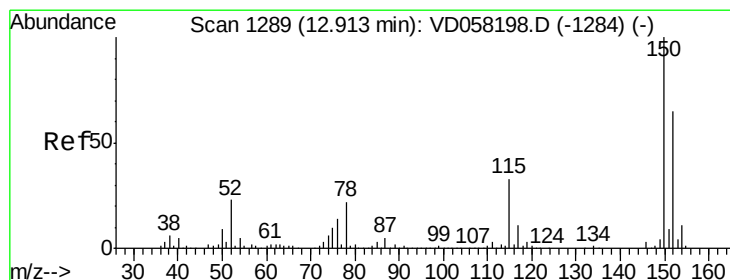
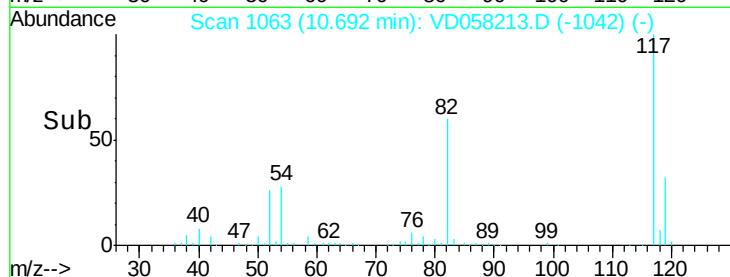
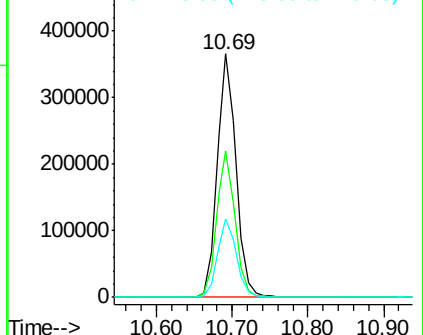
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058213.D
Acq: 20 Jun 2018 16:45

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-02-1-2RE

Tot Ion:117 Resp: 640113
Ion Ratio Lower Upper
117 100
82 59.9 47.0 70.6
119 32.1 25.3 37.9

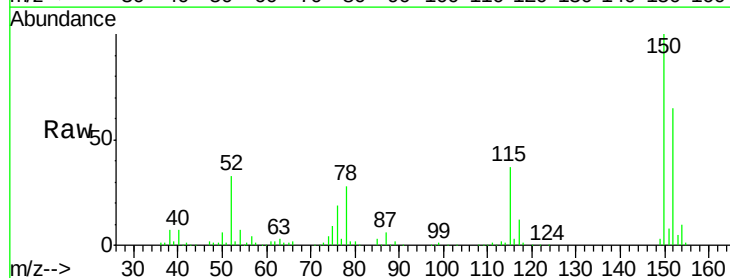


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

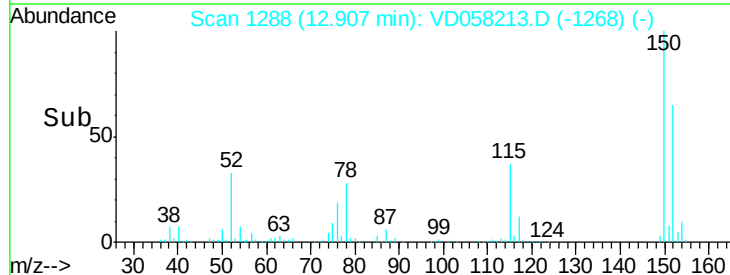
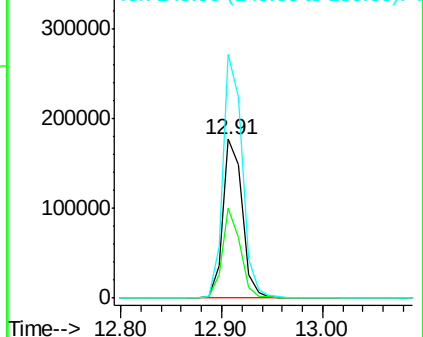


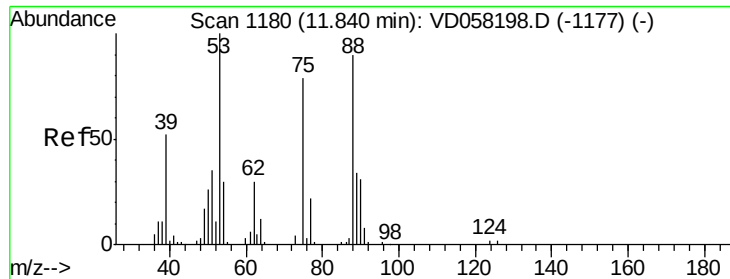
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058213.D
Acq: 20 Jun 2018 16:45

Tgt Ion:152 Resp: 236903
Ion Ratio Lower Upper
152 100
115 56.5 25.1 75.3
150 153.1 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: 143.511 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058213.D

Acq: 20 Jun 2018 16:45

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-02-1-2RE

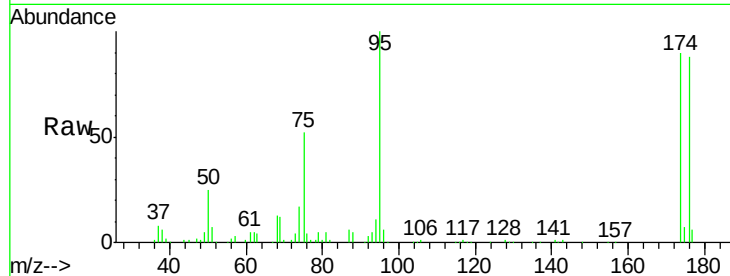
Tot Ion: 75 Resp: 121064

Ion Ratio Lower Upper

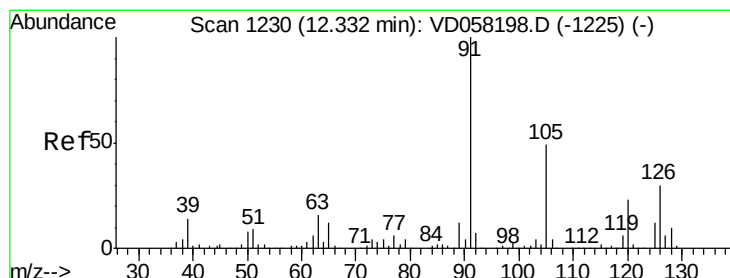
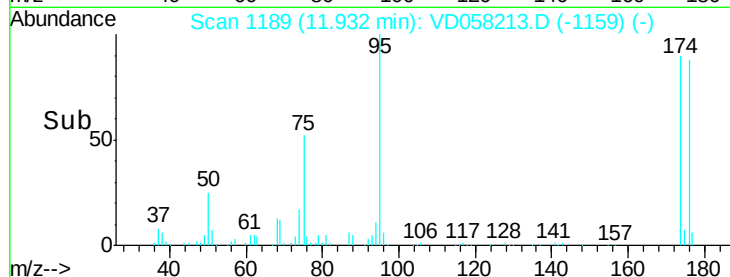
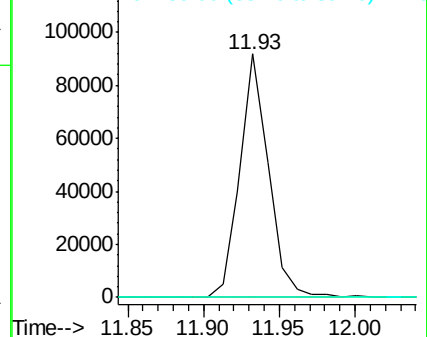
75 100

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: 12.33 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VD058213.D

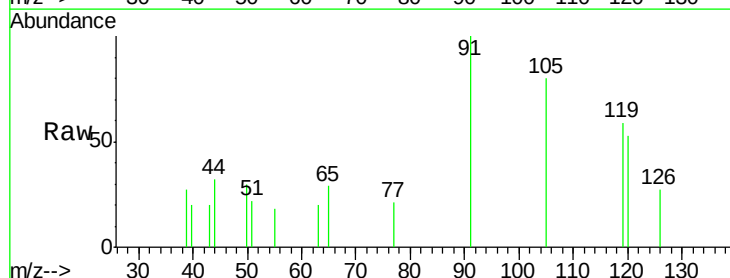
Acq: 20 Jun 2018 16:45

Tgt Ion: 91 Resp: 2261

Ion Ratio Lower Upper

91 100

126 27.5 14.9 44.9



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

