

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061818\
 Data File : VD058186.D
 Acq On : 18 Jun 2018 17:36
 Operator : VA/AP
 Sample : J3554-04
 Misc : 5.78g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:50:02 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	5.63	168	667027	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	891222	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.68	117	694898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	371231	50.00	ug/l	0.00

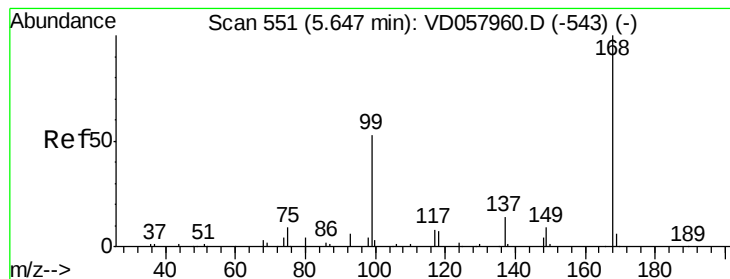
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.01	65	386546	57.97	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	115.94%	
35) Dibromofluoromethane	5.54	113	388839	56.39	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	112.78%	
50) Toluene-d8	8.70	98	846882	51.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.32%	
62) 4-Bromofluorobenzene	11.93	95	367950	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	

Target Compounds

					Qvalue	
11) Tert butyl alcohol	3.24	59	190	1.064	ug/l #	74
16) Acetone	2.61	43	46297	48.188	ug/l	93
18) Methyl Acetate	2.94	43	2066	1.112	ug/l #	66
20) Methylene Chloride	3.05	84	14975	Below Cal		94
29) Tetrahydrofuran	5.20	42	1926	1.683	ug/l #	62
31) Cyclohexane	5.63	56	15182	1.309	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	52913	5.389	ug/l #	52
38) Carbon Tetrachloride	5.63	117	55397	5.725	ug/l #	16
51) 4-Methyl-2-Pentanone	8.70	43	6184	1.374	ug/l #	5
81) trans-1,4-Dichloro-2-buten	11.92	75	179397	129.885	ug/l #	6
82) 4-Chlorotoluene	12.36	91	2307	Below Cal	#	50
89) n-Butylbenzene	13.19	91	186	Below Cal	#	30

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.01 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

Instrument :

MSVOA_D

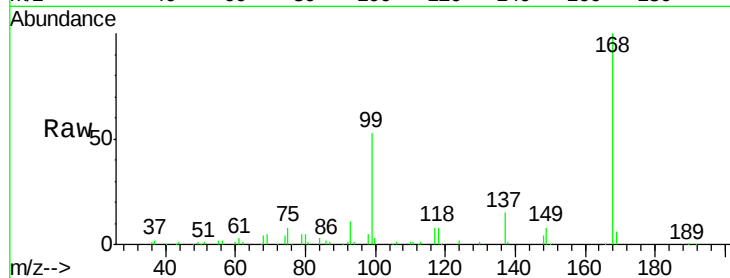
ClientSampleId :

Tot Ion:168 Resp: 667027

Ion Ratio Lower Upper

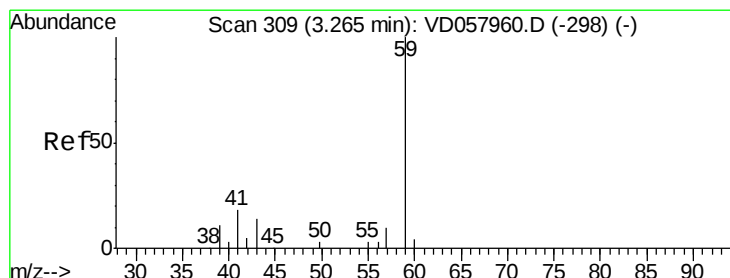
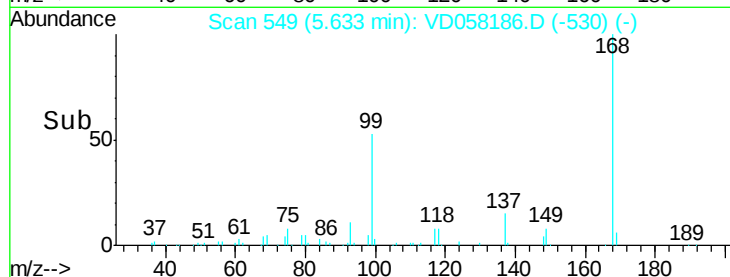
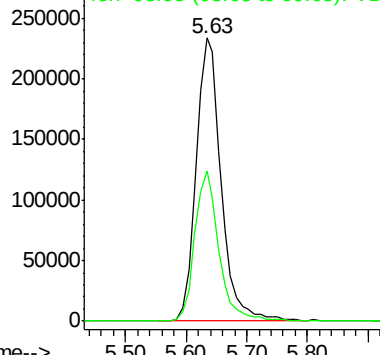
168 100

99 53.3 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.064 ug/l

RT: 3.24 min Scan# 306

Delta R.T. -0.02 min

Lab File: VD058186.D

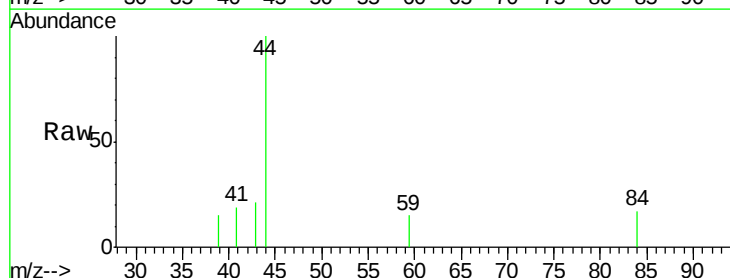
Acq: 18 Jun 2018 17:36

Tgt Ion: 59 Resp: 190

Ion Ratio Lower Upper

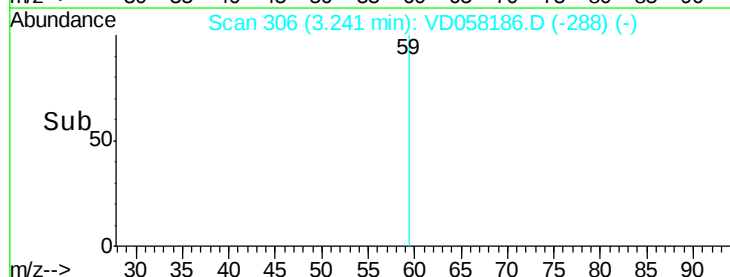
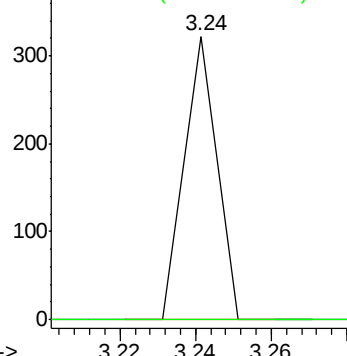
59 100

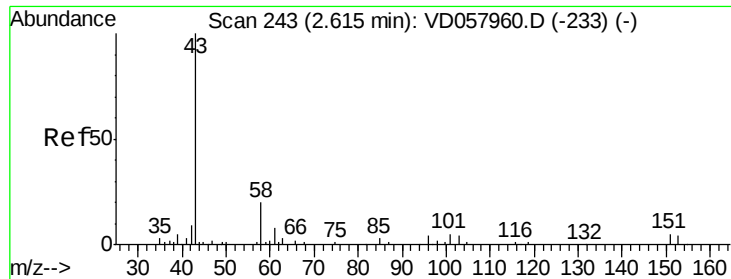
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 48.188 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.00 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

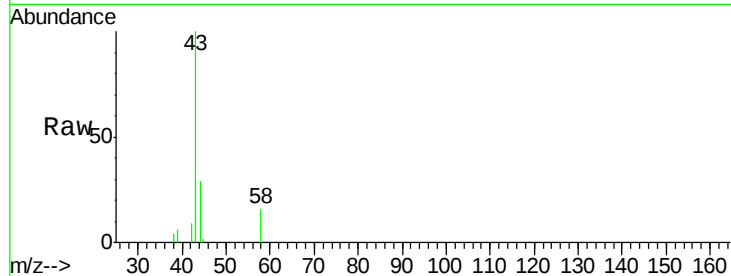
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 46297

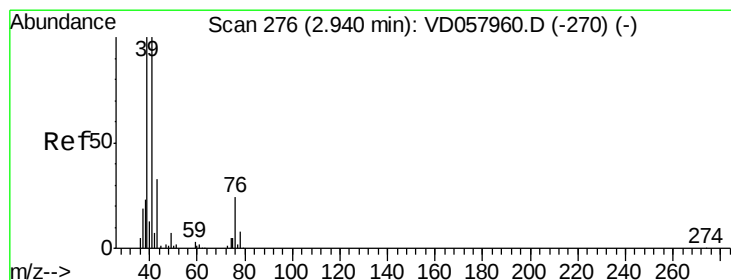
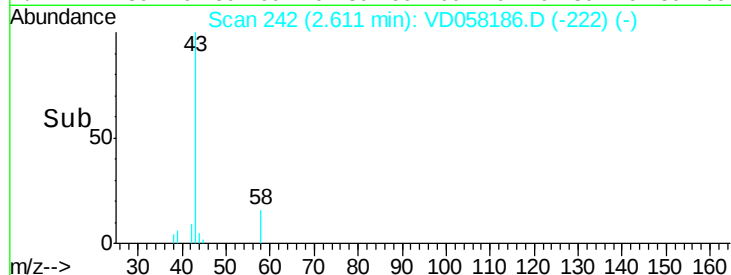
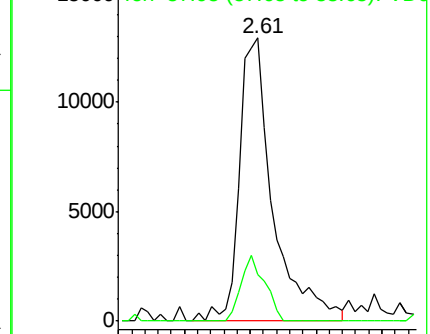
Ion Ratio Lower Upper

43 100

58 16.5 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: 1.112 ug/l

RT: 2.94 min Scan# 275

Delta R.T. -0.00 min

Lab File: VD058186.D

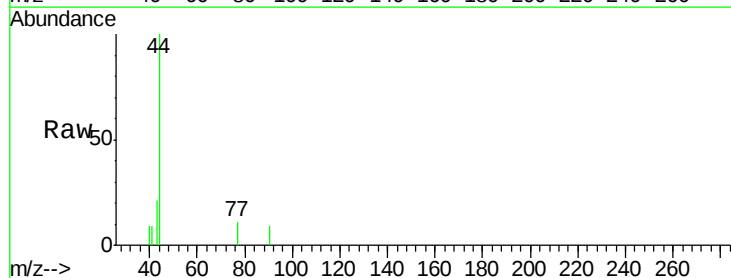
Acq: 18 Jun 2018 17:36

Tgt Ion: 43 Resp: 2066

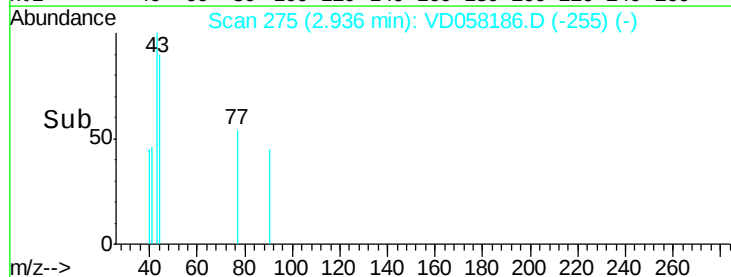
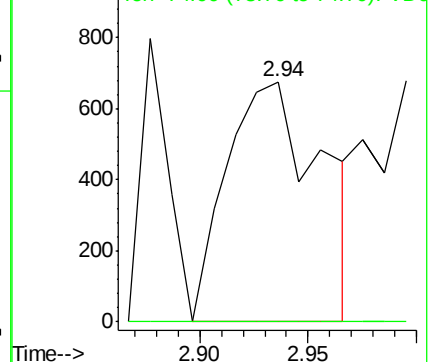
Ion Ratio Lower Upper

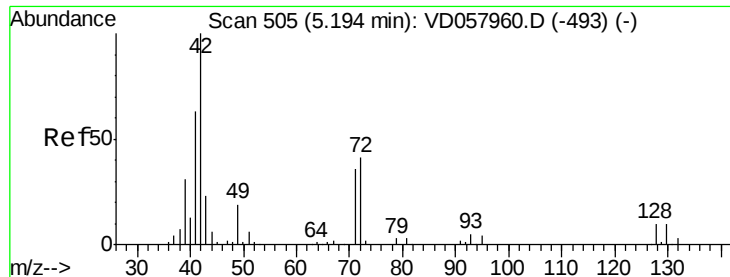
43 100

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

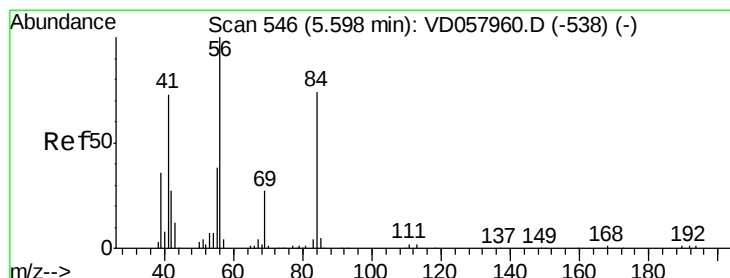
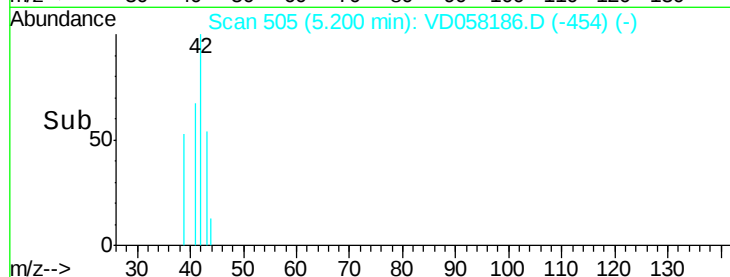
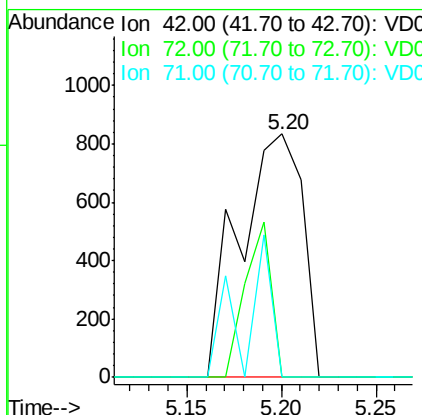
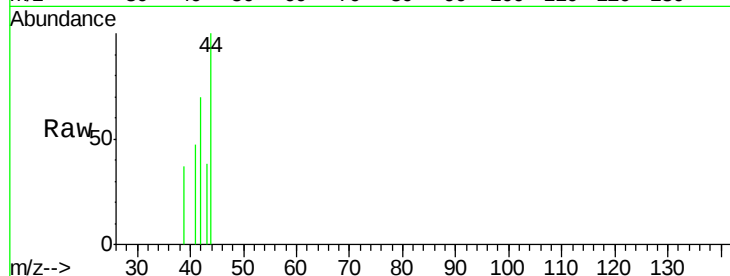




#29
Tetrahydrofuran
Concen: 1.683 ug/l
RT: 5.20 min Scan# 505
Delta R.T. 0.01 min
Lab File: VD058186.D
Acq: 18 Jun 2018 17:36

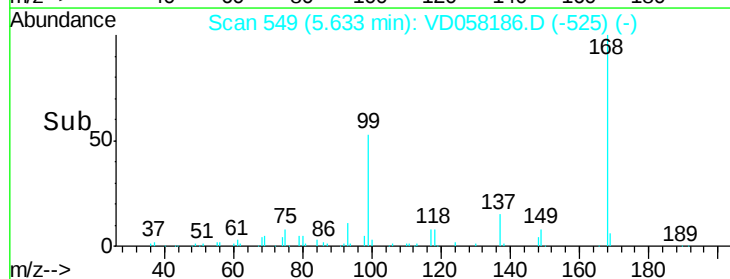
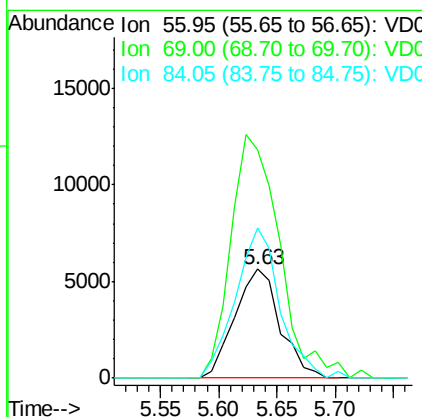
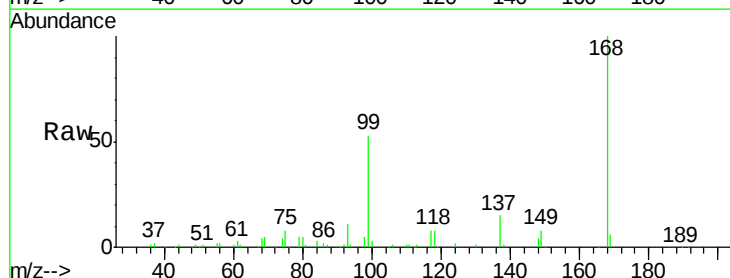
Instrument :
MSVOA_D
ClientSampled :

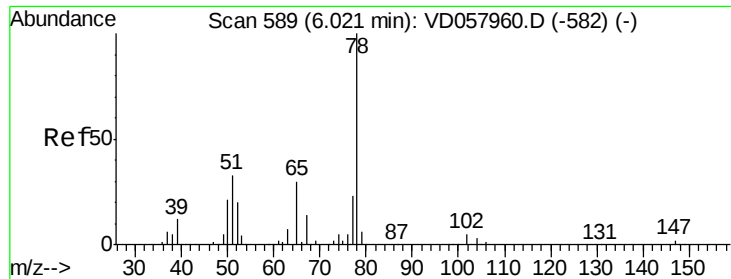
Tot Ion	Ratio	Lower	Upper
42	100		
72	26.3	28.5	42.7#
71	0.0	27.9	41.9#



#31
Cyclohexane
Concen: 1.309 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.04 min
Lab File: VD058186.D
Acq: 18 Jun 2018 17:36

Tgt Ion	Ratio	Lower	Upper
56	100		
69	210.2	21.5	32.3#
84	137.9	61.0	91.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 587

Delta R.T. -0.01 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

Instrument :

MSVOA_D

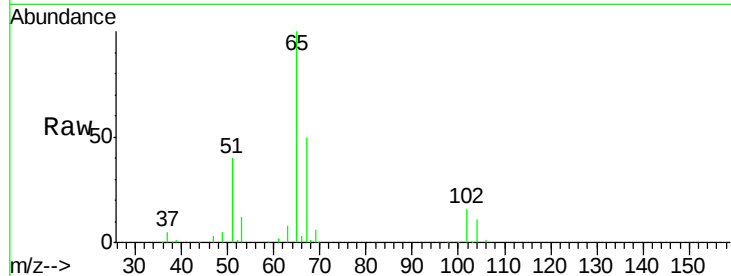
ClientSampleId :

Tot Ion: 65 Resp: 386546

Ion Ratio Lower Upper

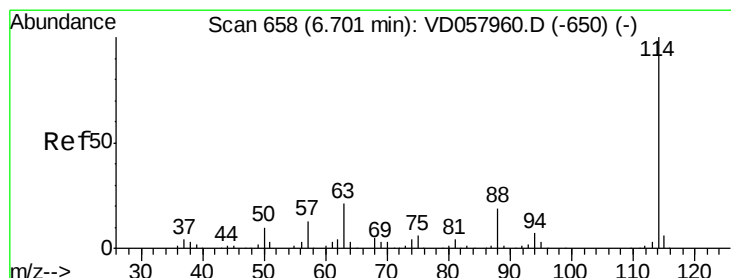
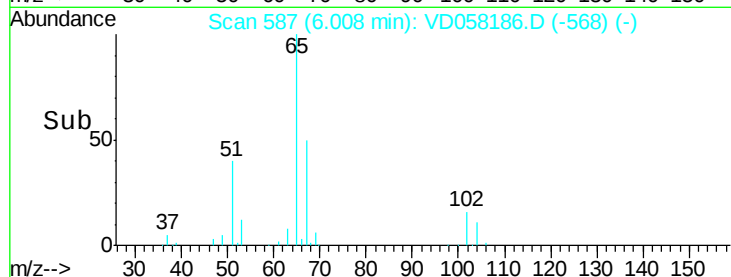
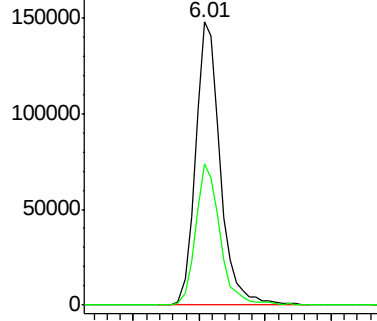
65 100

67 49.8 0.0 94.0



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# 656

Delta R.T. -0.01 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

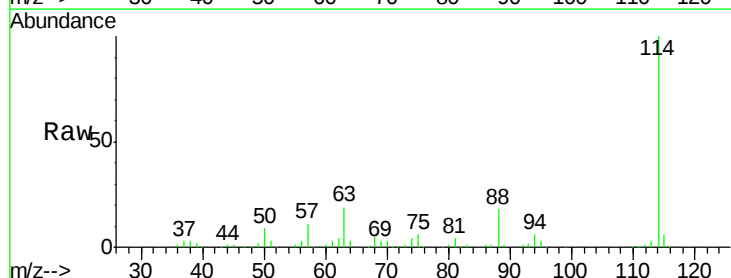
Tgt Ion: 114 Resp: 891222

Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.8

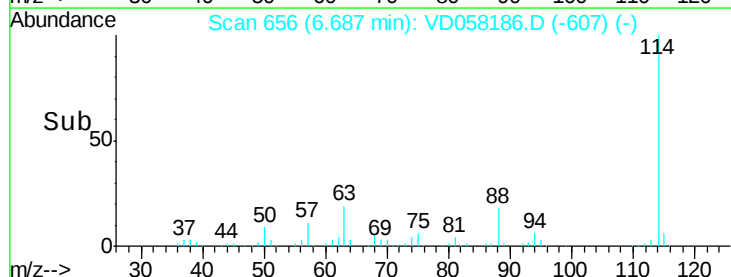
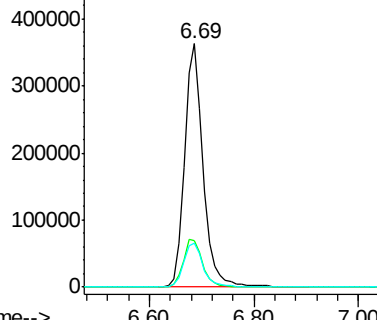
88 18.0 0.0 37.8

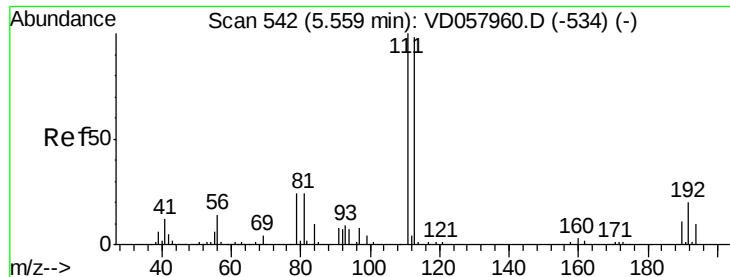


Abundance Ion 114.00 (113.70 to 114.70): V

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: 5.54 min Scan# 540

Delta R.T. -0.01 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

Instrument :
MSVOA_D
ClientSampled :

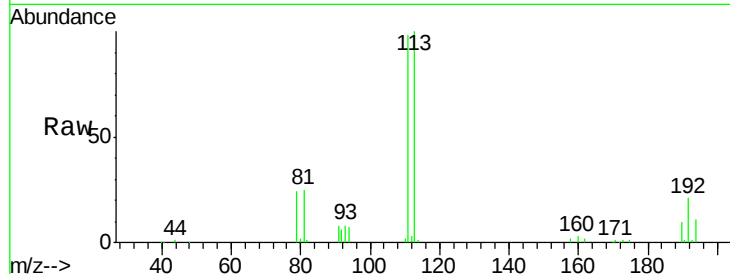
Tot Ion:113 Resp: 388839

Ion Ratio Lower Upper

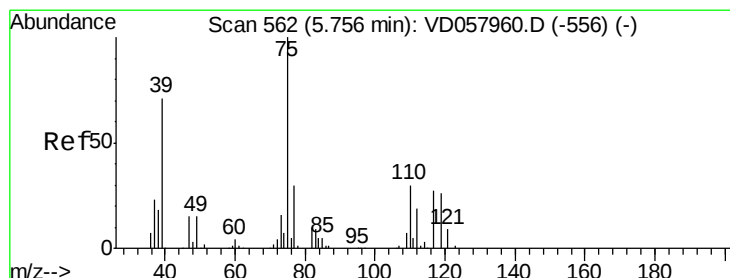
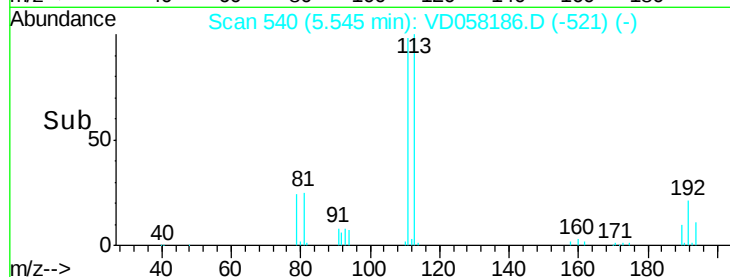
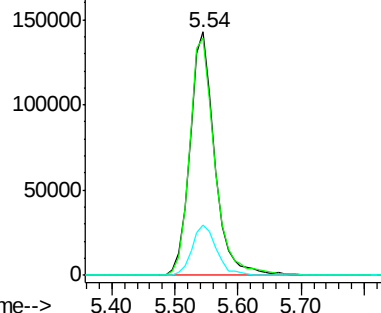
113 100

111 97.5 81.5 122.3

192 20.9 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: 5.389 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

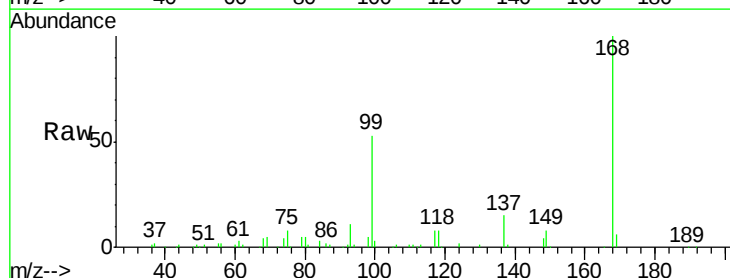
Tgt Ion: 75 Resp: 52913

Ion Ratio Lower Upper

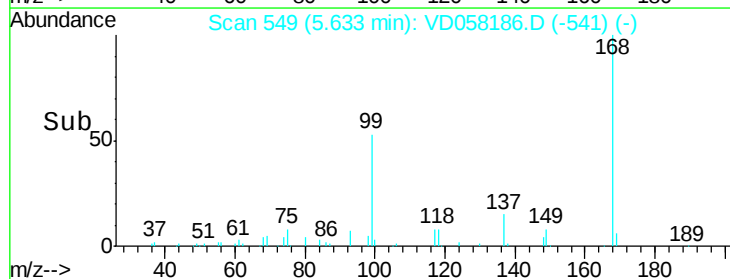
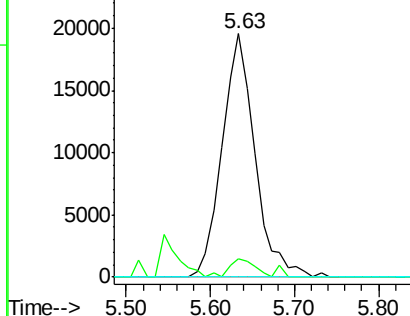
75 100

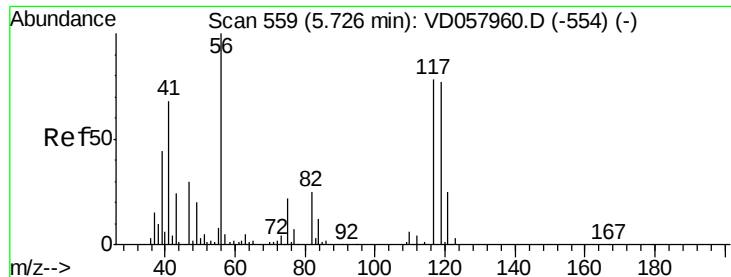
110 7.8 14.8 44.3#

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





#38

Carbon Tetrachloride

Concen: 5.725 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.09 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

Instrument :

MSVOA_D

ClientSampleId :

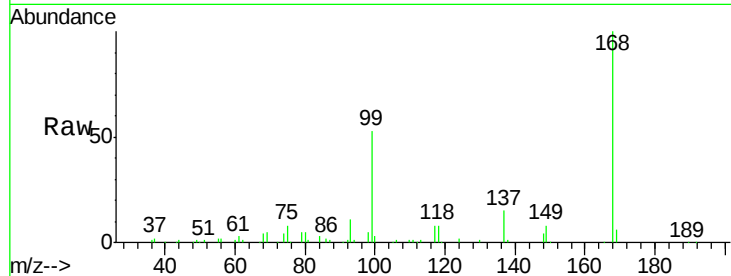
Tot Ion:117 Resp: 55397

Ion Ratio Lower Upper

117 100

119 4.8 76.1 114.1#

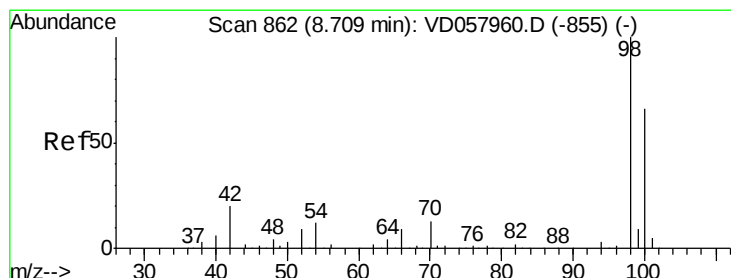
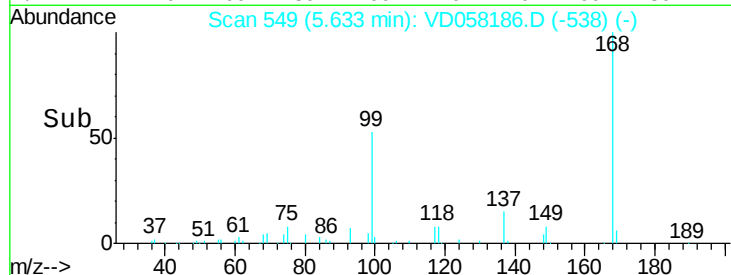
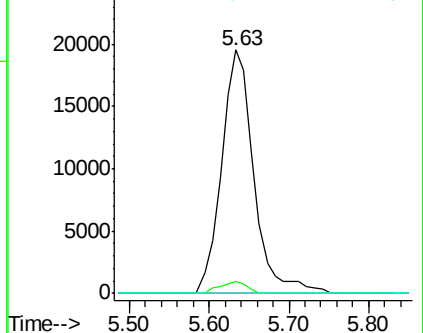
121 0.0 24.9 37.3#



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. -0.00 min

Lab File: VD058186.D

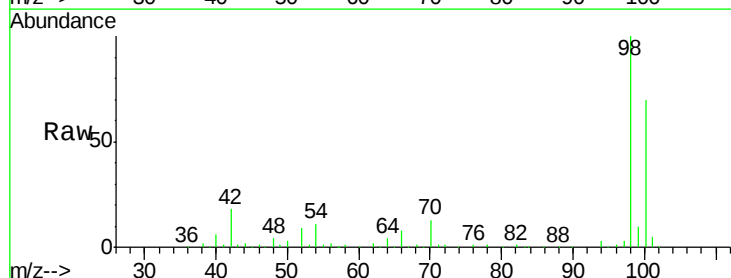
Acq: 18 Jun 2018 17:36

Tgt Ion: 98 Resp: 846882

Ion Ratio Lower Upper

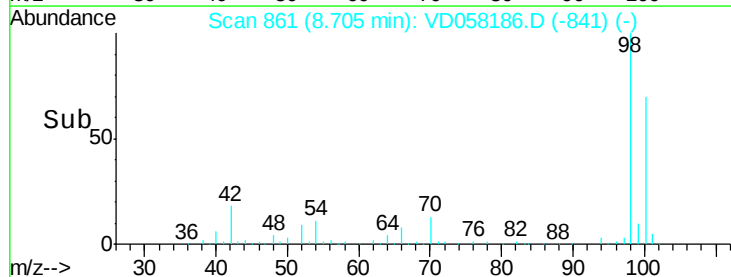
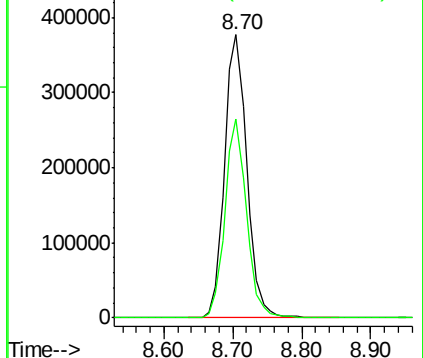
98 100

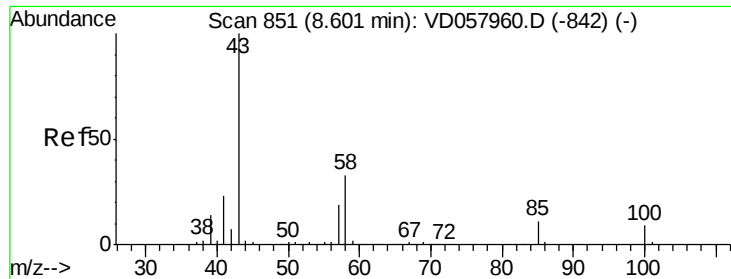
100 70.4 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.374 ug/l

RT: 8.70 min Scan# 860

Delta R.T. 0.09 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

Instrument :

MSVOA_D

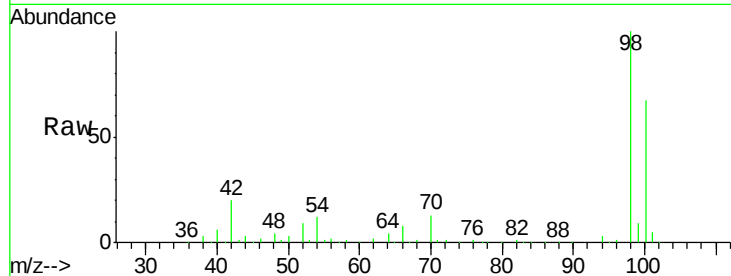
ClientSampled :

Tot Ion: 43 Resp: 6184

Ion Ratio Lower Upper

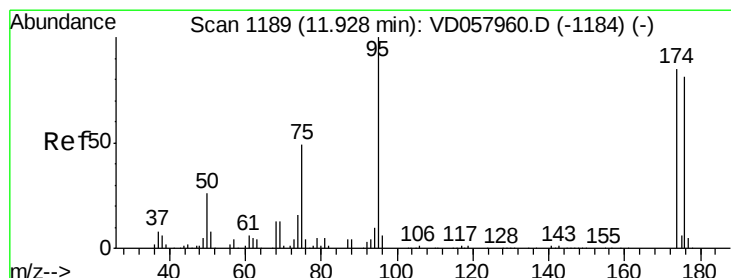
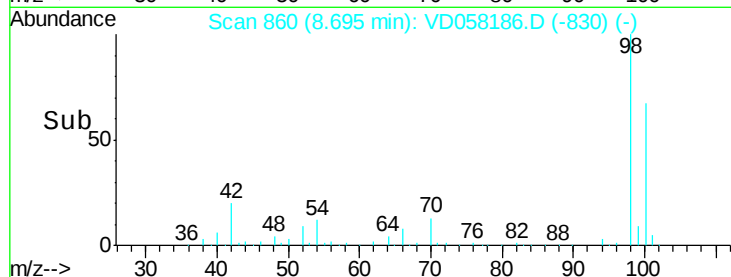
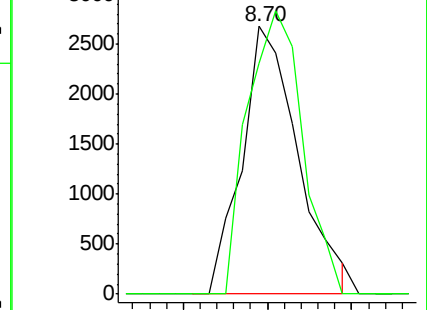
43 100

58 86.4 26.2 39.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

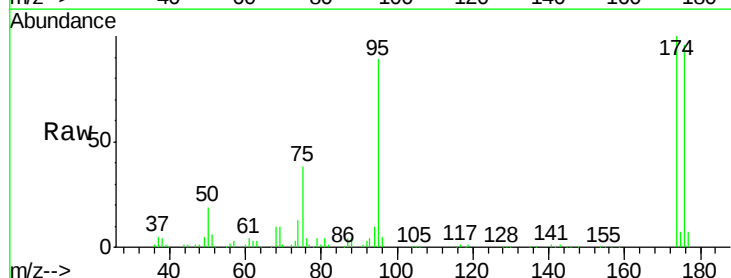
Tgt Ion: 95 Resp: 367950

Ion Ratio Lower Upper

95 100

174 112.9 0.0 169.4

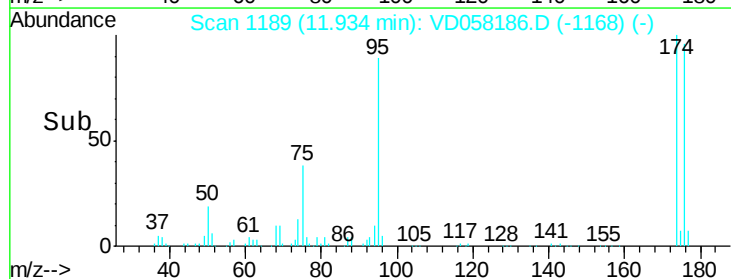
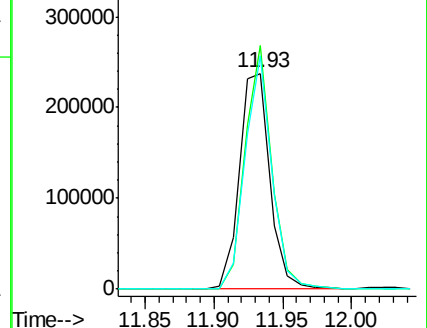
176 108.1 0.0 162.6

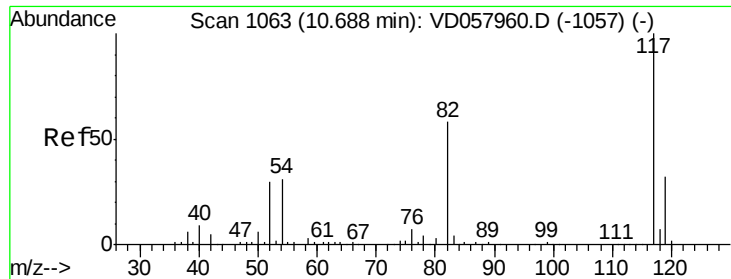


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

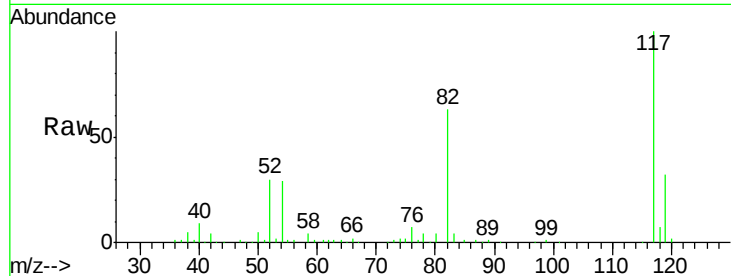




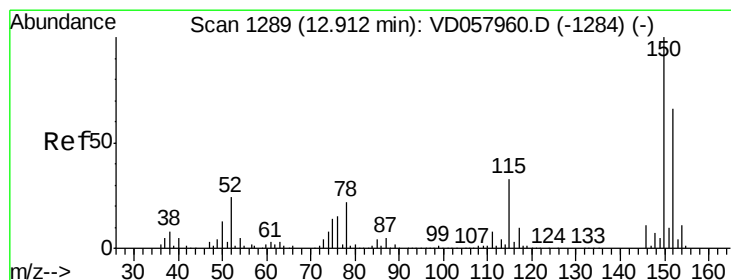
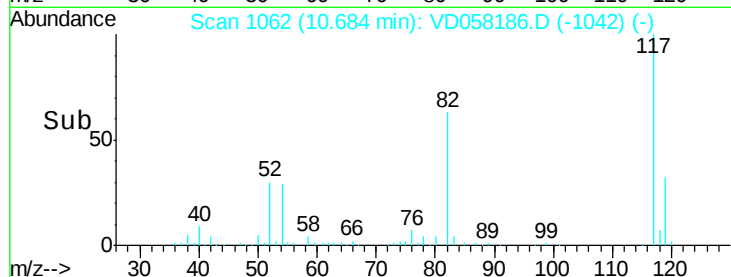
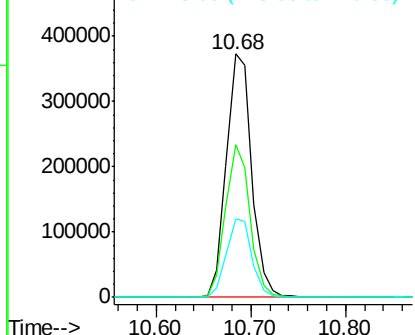
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.00 min
Lab File: VD058186.D
Acq: 18 Jun 2018 17:36

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:117 Resp: 694898
Ion Ratio Lower Upper
117 100
82 62.6 46.8 70.2
119 32.1 25.8 38.6

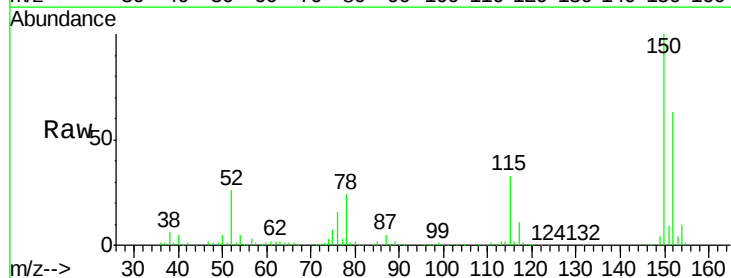


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

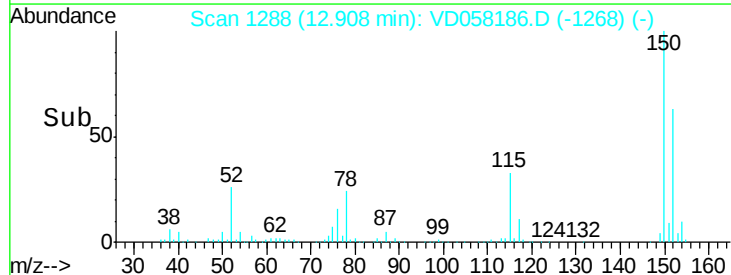
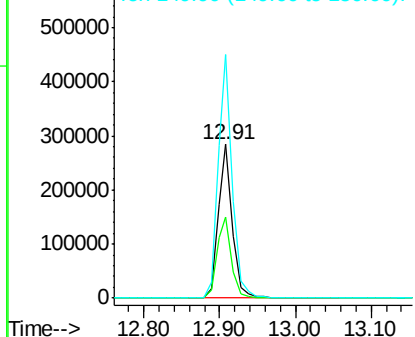


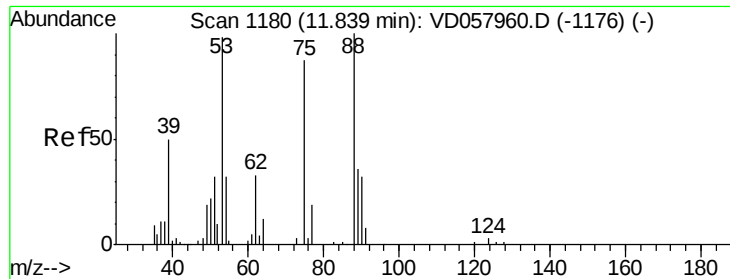
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VD058186.D
Acq: 18 Jun 2018 17:36

Tgt Ion:152 Resp: 371231
Ion Ratio Lower Upper
152 100
115 52.4 25.6 76.6
150 158.6 0.0 306.8



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

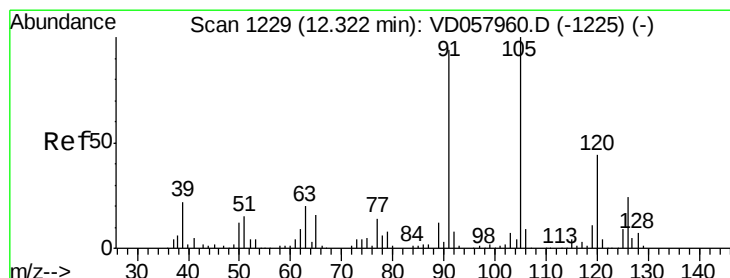
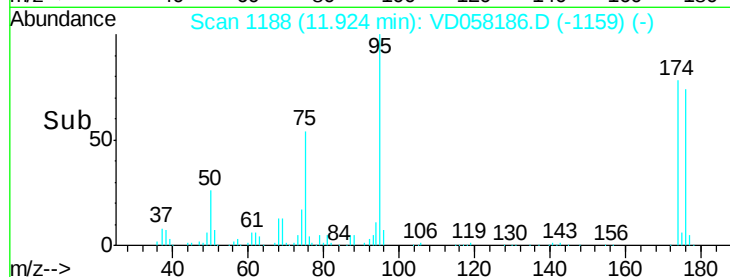
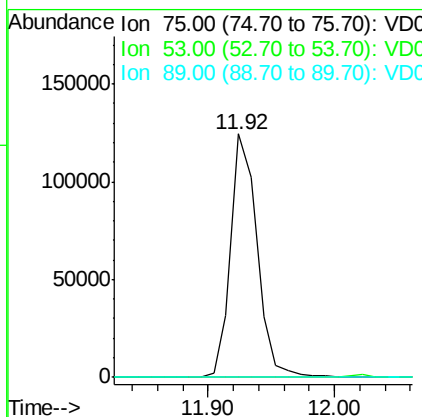
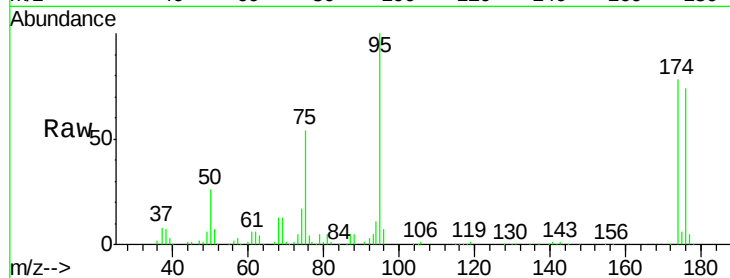




#81
trans-1,4-Dichloro-2-butene
Concen: 129.885 ug/l
RT: 11.92 min Scan# 1188
Delta R.T. 0.08 min
Lab File: VD058186.D
Acq: 18 Jun 2018 17:36

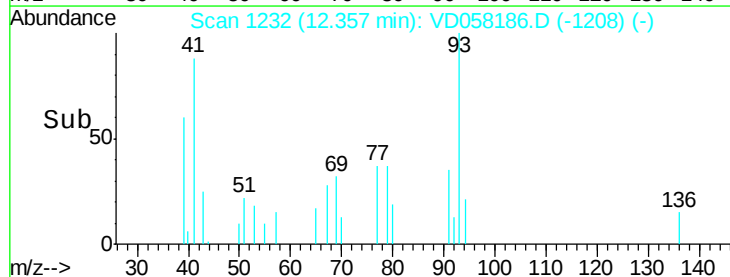
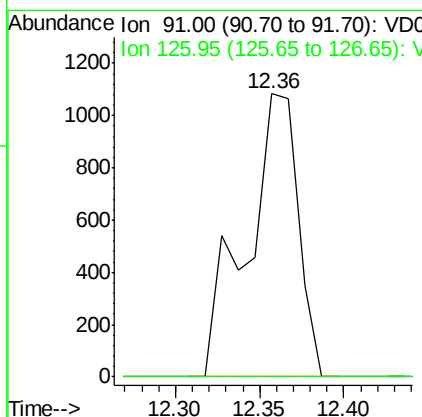
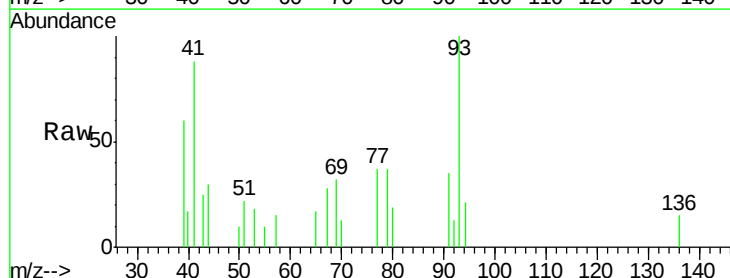
Instrument :
MSVOA_D
ClientSampleId :

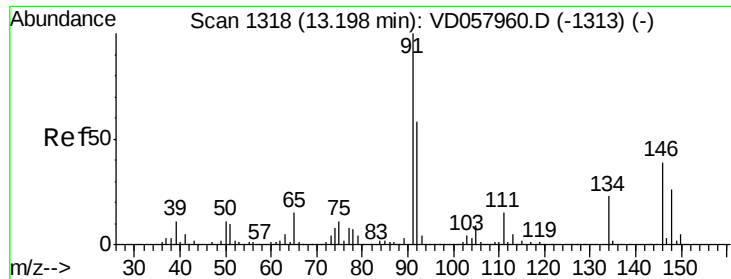
Tot Ion: 75 Resp: 179397
Ion Ratio Lower Upper
75 100
53 0.0 89.3 133.9#
89 0.0 33.3 49.9#



#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.36 min Scan# 1232
Delta R.T. 0.04 min
Lab File: VD058186.D
Acq: 18 Jun 2018 17:36

Tgt Ion: 91 Resp: 2307
Ion Ratio Lower Upper
91 100
126 0.0 12.5 37.5#





#89

n-Butylbenzene

Concen: Below Cal

RT: 13.19 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD058186.D

Acq: 18 Jun 2018 17:36

Instrument :

MSVOA_D

ClientSampleId :

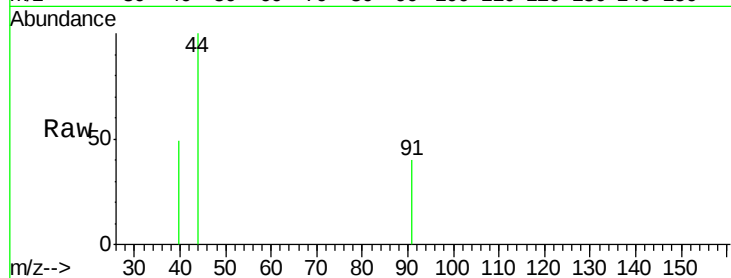
Tot Ion: 91 Resp: 186

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): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V

13.19

300

200

100

0

13.16 13.18 13.20 13.22

Time-->

