

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\
 Data File : VD061766.D
 Acq On : 12 Apr 2019 5:38
 Operator : VA/AP
 Sample : K2345-01
 Misc : 7.07g/5ml/MSVOA D/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 12 06:07:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	101467	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	223168	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	178486	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	63966	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	101618	132.12	ug/l	-0.01
Spiked Amount			Recovery	=	264.24%	
35) Dibromofluoromethane	6.92	113	102735	66.45	ug/l	0.00
Spiked Amount			Recovery	=	132.90%	
50) Toluene-d8	10.40	98	201193	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
62) 4-Bromofluorobenzene	13.55	95	87484	69.63	ug/l	0.00
Spiked Amount			Recovery	=	139.26%	

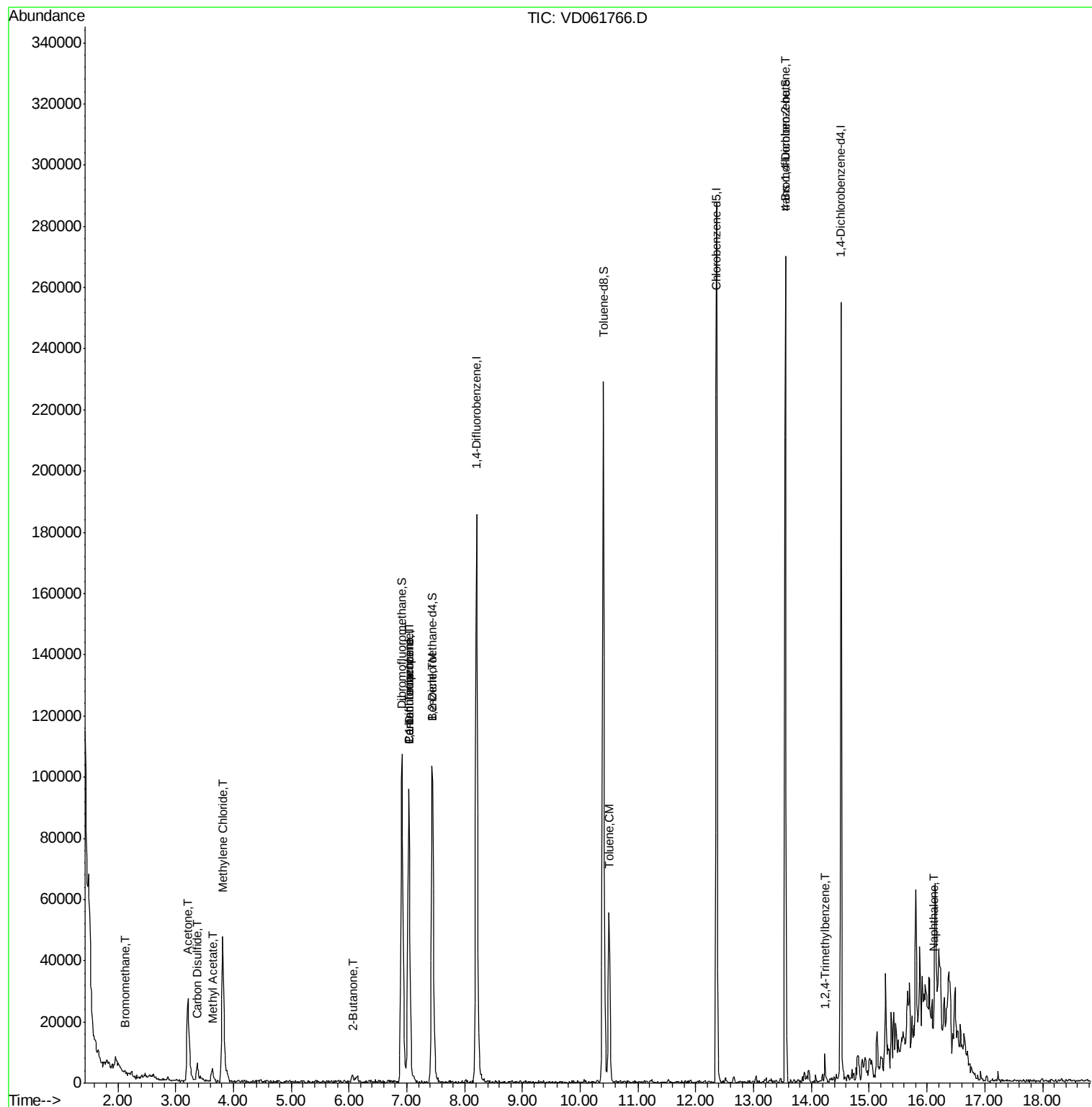
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	223	1.166	ug/l #	12
16) Acetone	3.22	43	57322	249.319	ug/l	99
17) Carbon Disulfide	3.37	76	10408	3.028	ug/l	98
18) Methyl Acetate	3.64	43	8582	19.840	ug/l	93
20) Methylene Chloride	3.82	84	36925	28.302	ug/l	95
25) 2-Butanone	6.06	43	4731	17.849	ug/l	95
36) 1,1-Dichloropropene	7.03	75	6989	3.578	ug/l #	39
38) Carbon Tetrachloride	7.03	117	9854	4.305	ug/l #	11
40) Benzene	7.45	78	5268	1.118	ug/l #	90
52) Toluene	10.50	92	33386	11.347	ug/l	88
81) trans-1,4-Dichloro-2-buten	13.55	75	32774	124.105	ug/l #	20
84) 1,2,4-Trimethylbenzene	14.23	105	4568	1.338	ug/l	93
95) Naphthalene	16.11	128	2146	1.517	ug/l #	70

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

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Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

Instrument :

MSVOA_D

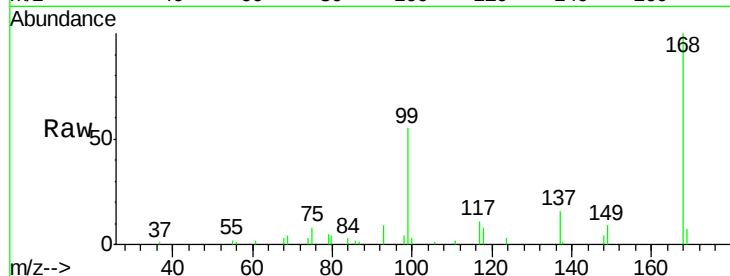
ClientSampleId :

Tot Ion:168 Resp: 101467

Ion Ratio Lower Upper

168 100

99 55.2 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

40000

30000

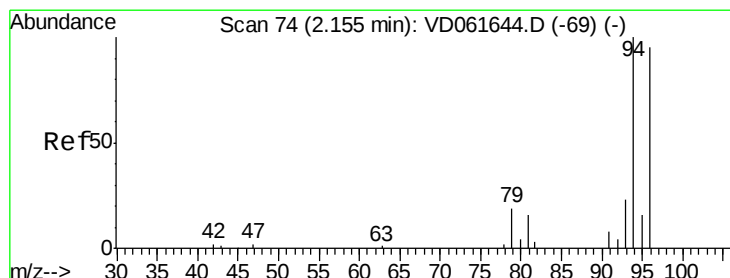
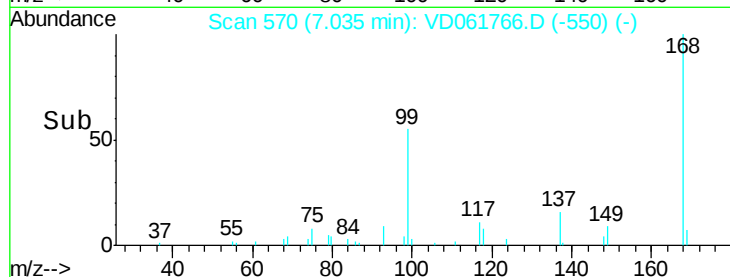
20000

10000

0

6.90 7.00 7.10 7.20

Time-->



#5

Bromomethane

Concen: 1.166 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

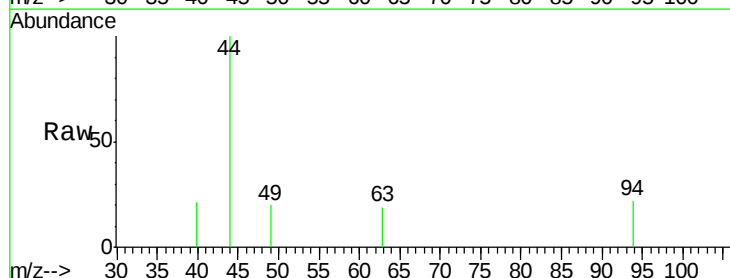
Tgt Ion: 94 Resp: 223

Ion Ratio Lower Upper

94 100

96 0.0 75.8 113.8#

93 0.0 18.6 28.0#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.14

500

400

300

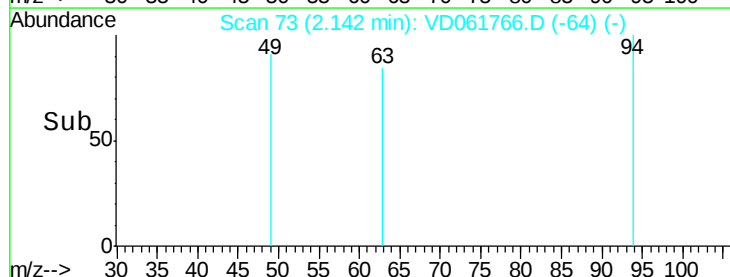
200

100

0

2.12 2.14 2.16

Time-->





#16

Acetone

Concen: 249.319 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

Instrument :

MSVOA_D

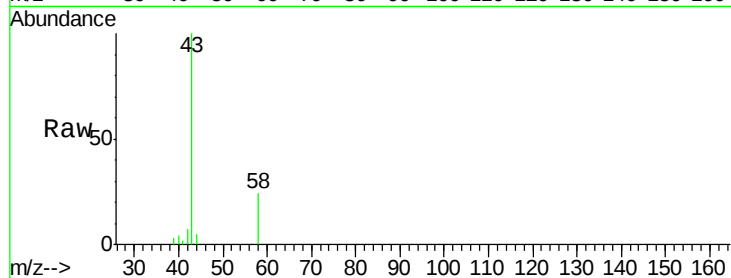
ClientSampleId :

Tot Ion: 43 Resp: 57322

Ion Ratio Lower Upper

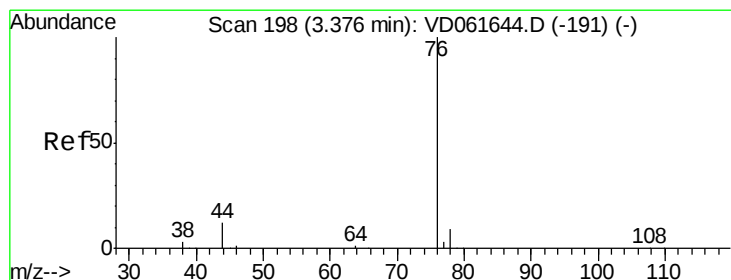
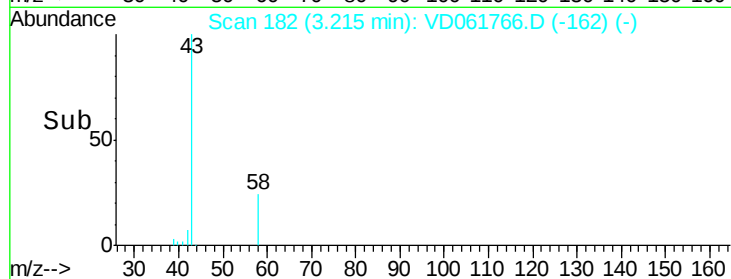
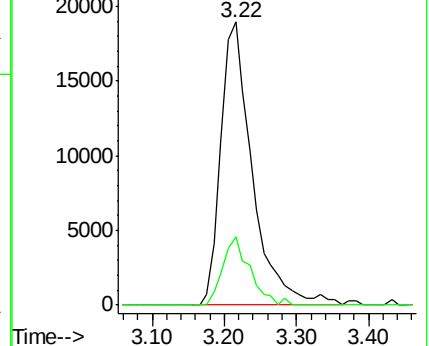
43 100

58 24.2 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 3.028 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.00 min

Lab File: VD061766.D

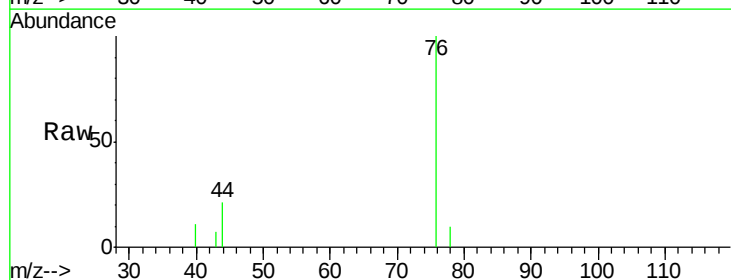
Acq: 12 Apr 2019 5:38

Tgt Ion: 76 Resp: 10408

Ion Ratio Lower Upper

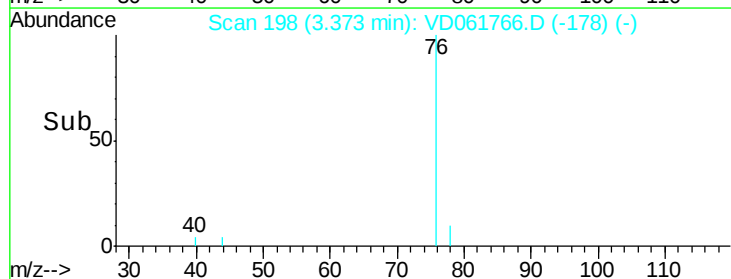
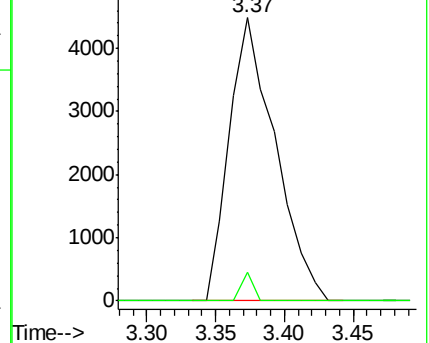
76 100

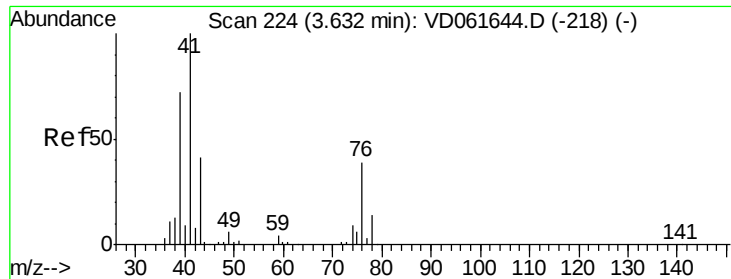
78 10.0 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

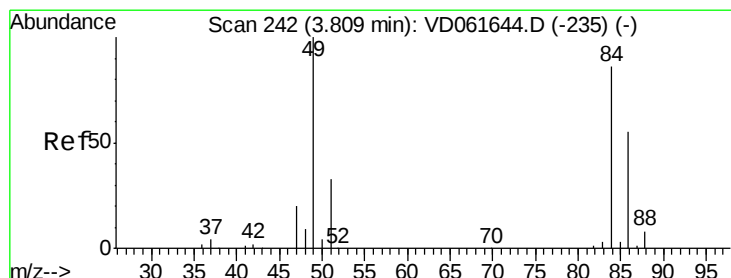
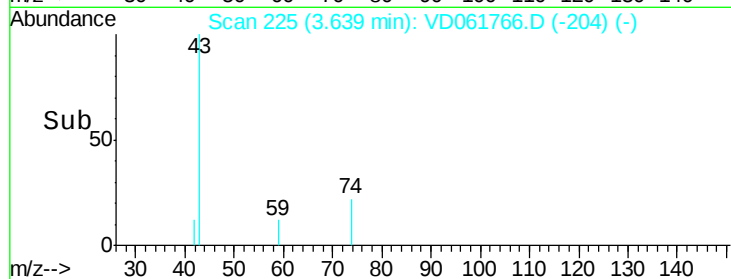
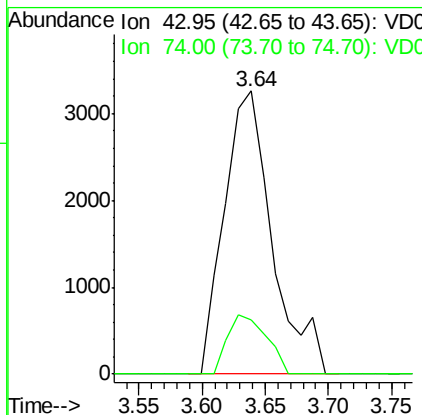
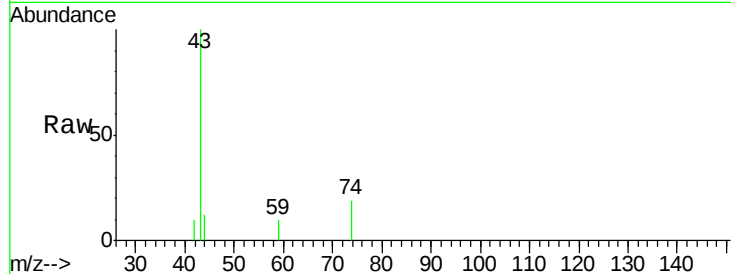




#18
Methyl Acetate
Concen: 19.840 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD061766.D
Acq: 12 Apr 2019 5:38

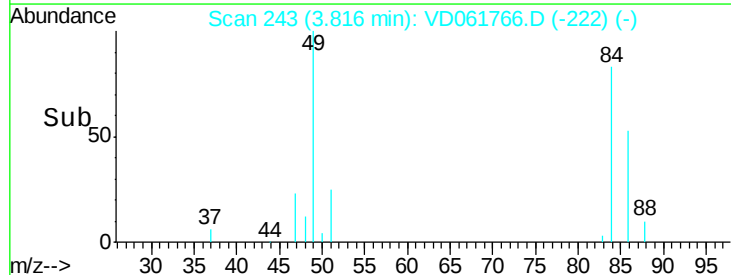
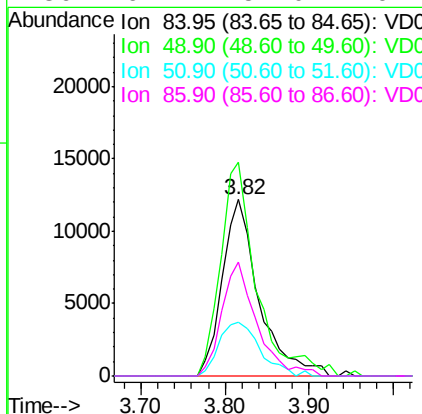
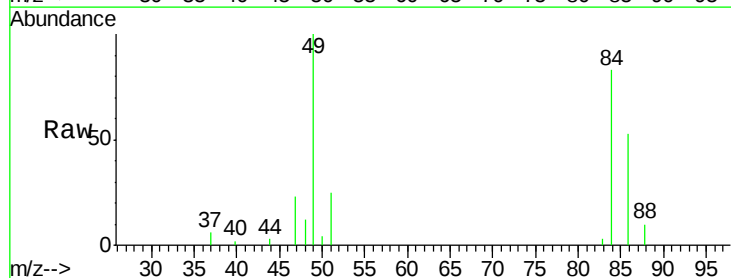
Instrument :
MSVOA_D
ClientSampleId :

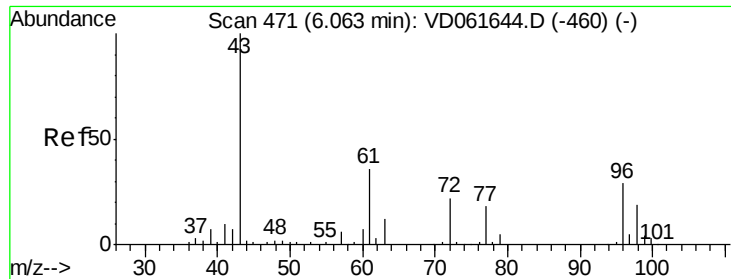
Tot Ion: 43 Resp: 8582
Ion Ratio Lower Upper
43 100
74 19.2 18.2 27.2



#20
Methylene Chloride
Concen: 28.302 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD061766.D
Acq: 12 Apr 2019 5:38

Tgt Ion: 84 Resp: 36925
Ion Ratio Lower Upper
84 100
49 121.2 93.0 139.4
51 30.5 30.4 45.6
86 64.7 51.0 76.4





#25

2-Butanone

Concen: 17.849 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

Instrument :

MSVOA_D

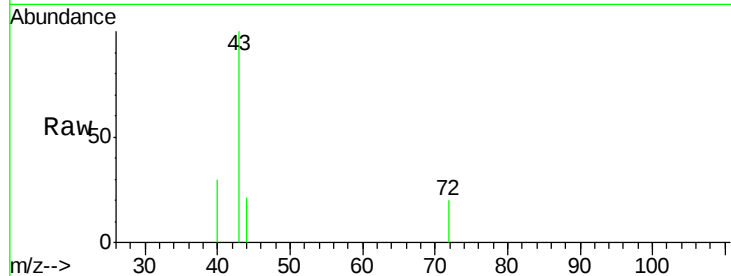
ClientSampled :

Tot Ion: 43 Resp: 4731

Ion Ratio Lower Upper

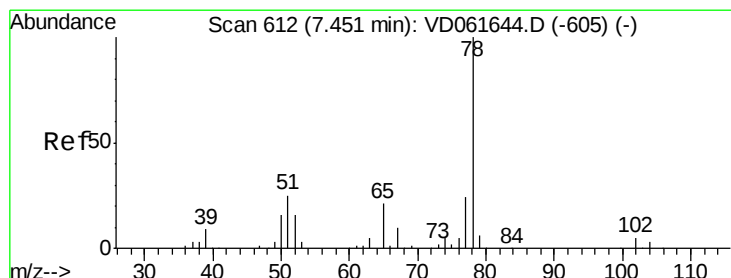
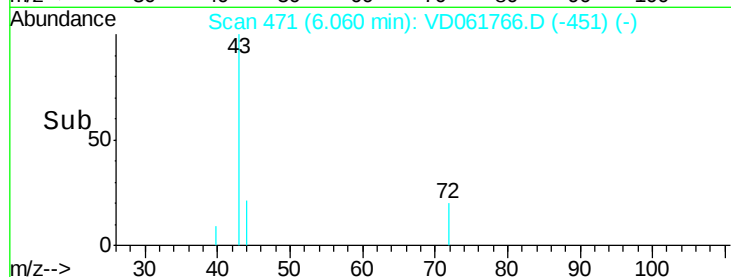
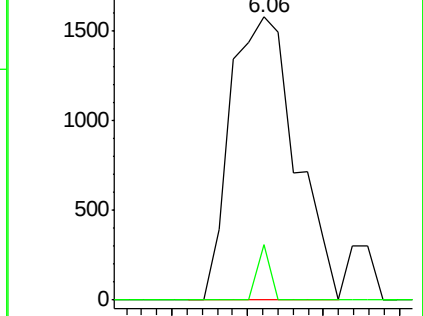
43 100

72 19.5 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD061766.D

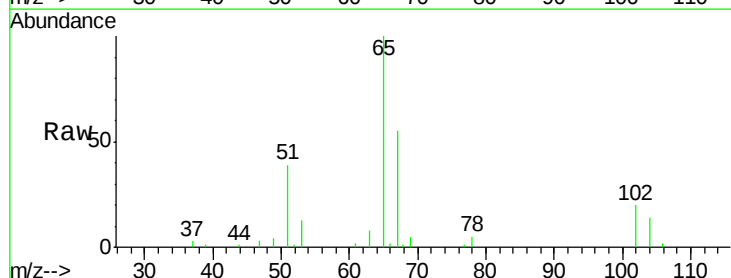
Acq: 12 Apr 2019 5:38

Tgt Ion: 65 Resp: 101618

Ion Ratio Lower Upper

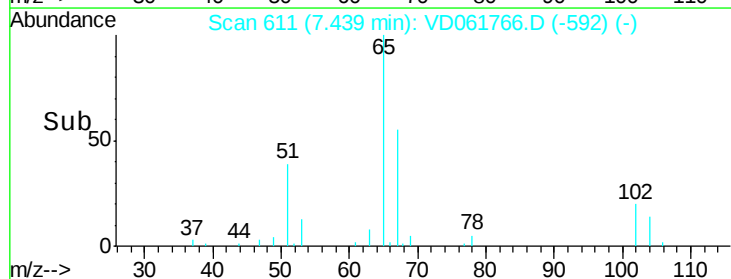
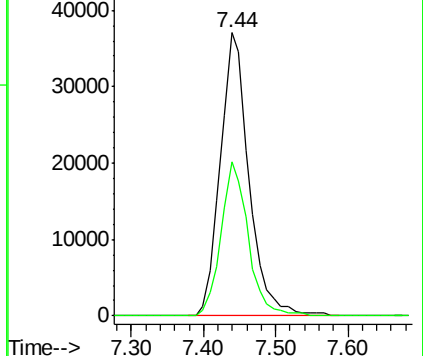
65 100

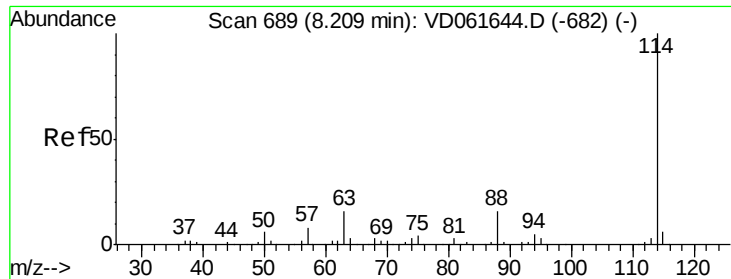
67 54.6 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

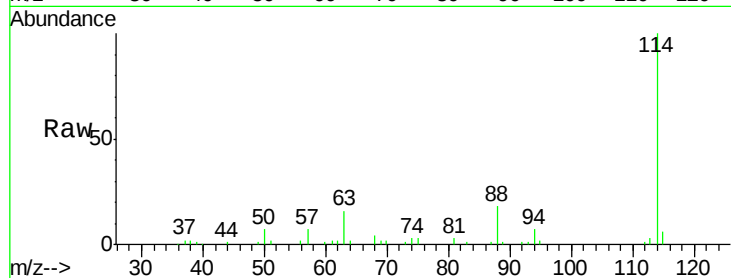




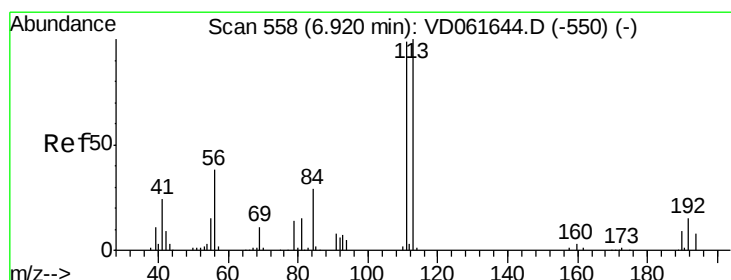
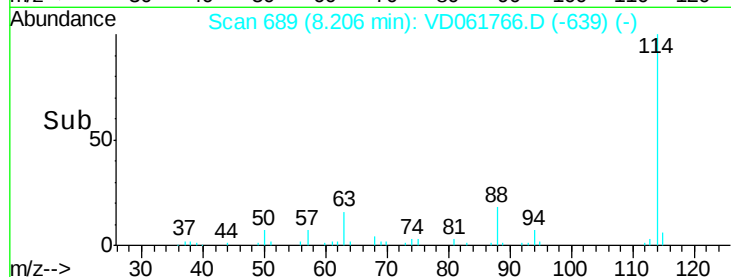
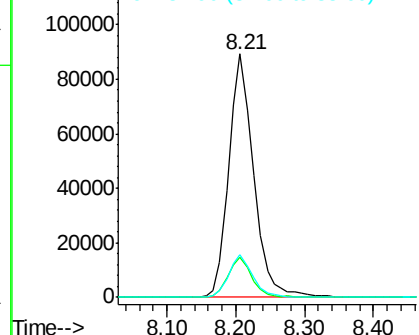
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VD061766.D
 Acq: 12 Apr 2019 5:38

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 223168
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 31.2
 88 17.6 0.0 31.8

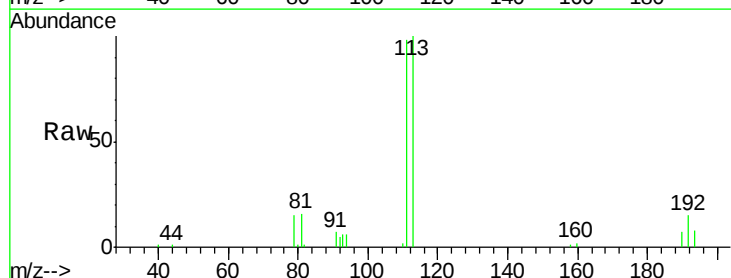


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

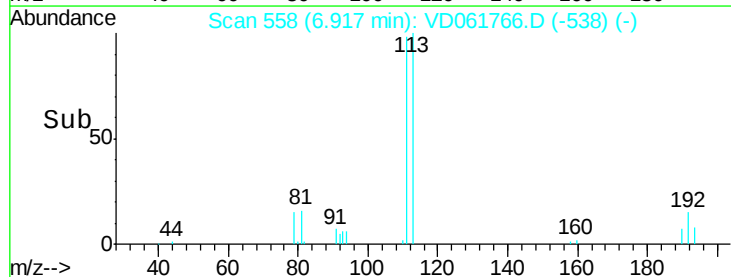
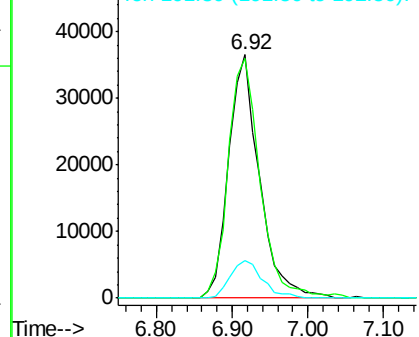


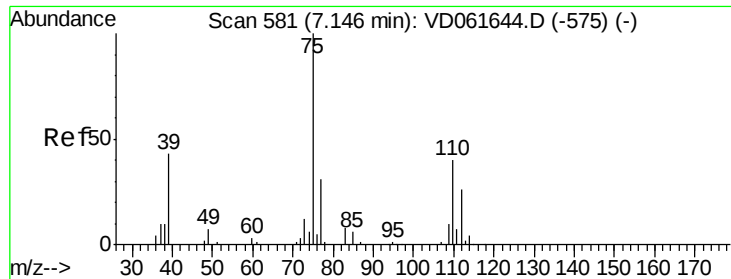
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.00 min
 Lab File: VD061766.D
 Acq: 12 Apr 2019 5:38

Tgt Ion:113 Resp: 102735
 Ion Ratio Lower Upper
 113 100
 111 98.4 79.3 118.9
 192 15.4 12.3 18.5



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

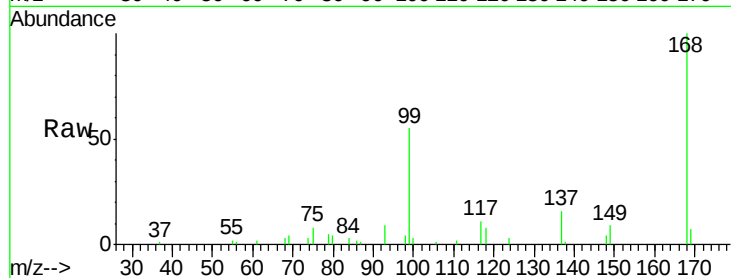




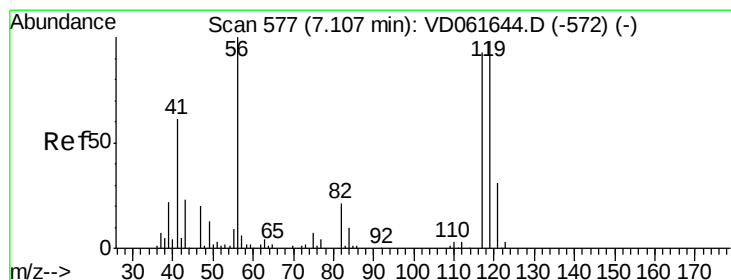
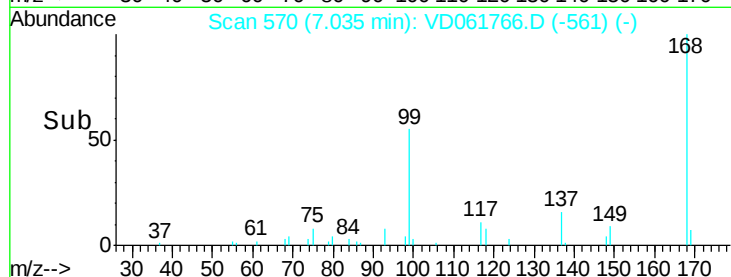
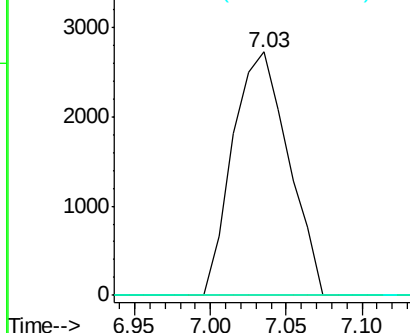
#36
 1,1-Dichloropropene
 Concen: 3.578 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.11 min
 Lab File: VD061766.D
 Acq: 12 Apr 2019 5:38

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 6989
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.7 59.0#
 77 0.0 24.8 37.2#

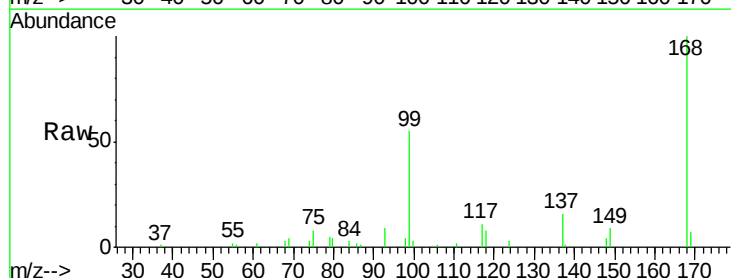


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

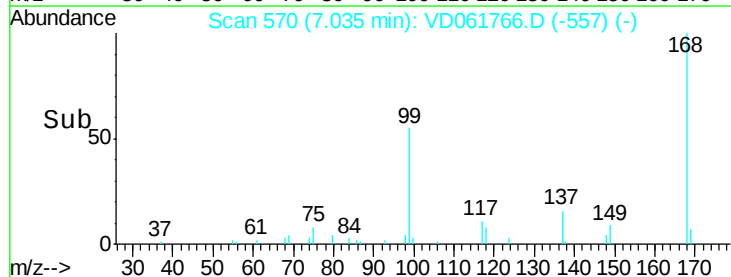
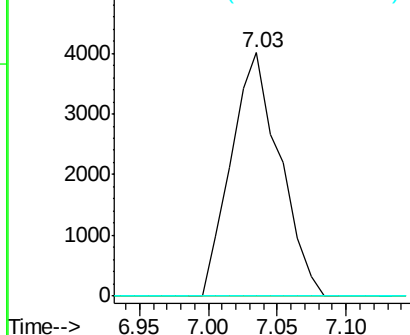


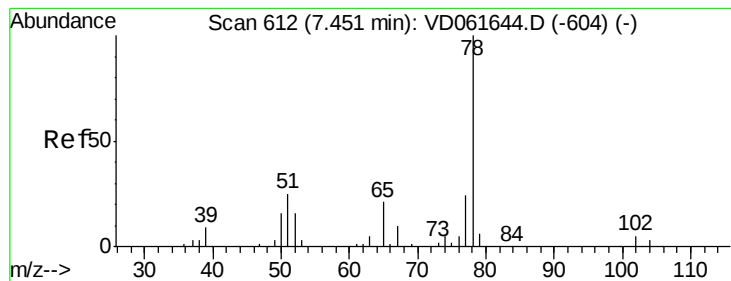
#38
 Carbon Tetrachloride
 Concen: 4.305 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.07 min
 Lab File: VD061766.D
 Acq: 12 Apr 2019 5:38

Tgt Ion: 117 Resp: 9854
 Ion Ratio Lower Upper
 117 100
 119 0.0 77.9 116.9#
 121 0.0 24.7 37.1#



Abundance Ion 116.85 (116.55 to 117.55): VDC
 Ion 118.85 (118.55 to 119.55): VDC
 Ion 120.85 (120.55 to 121.55): VDC





#40

Benzene

Concen: 1.118 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

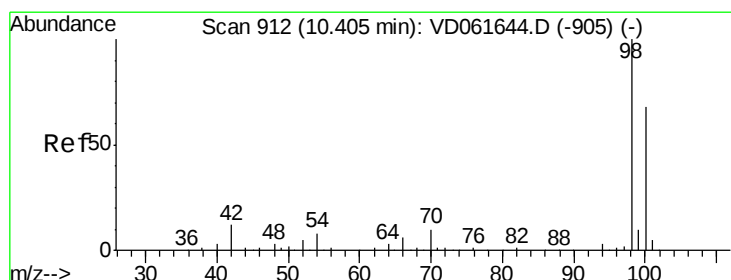
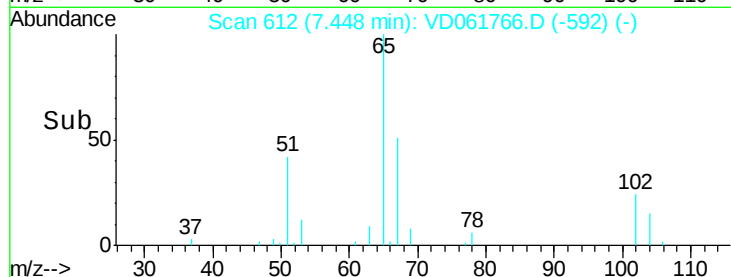
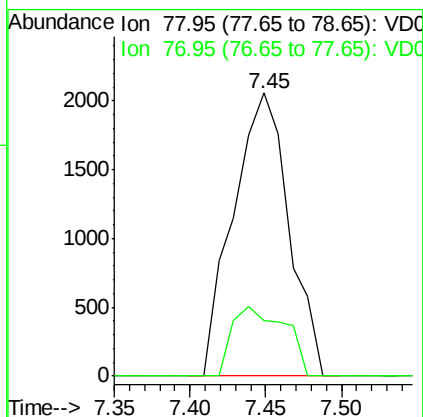
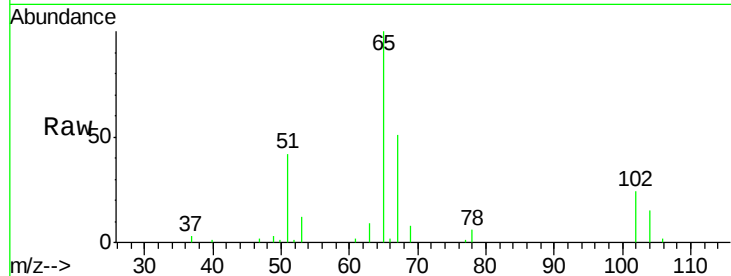
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 78 Resp: 5268

Ion Ratio Lower Upper

78 100

77 19.5 19.5 29.3#



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD061766.D

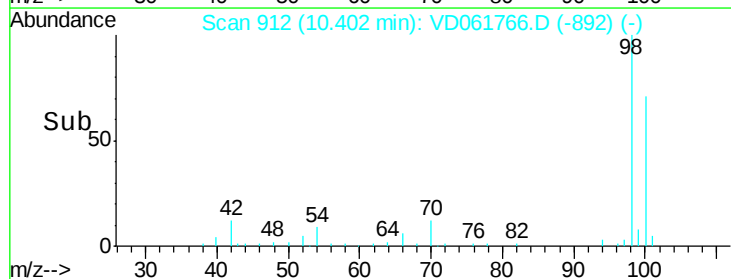
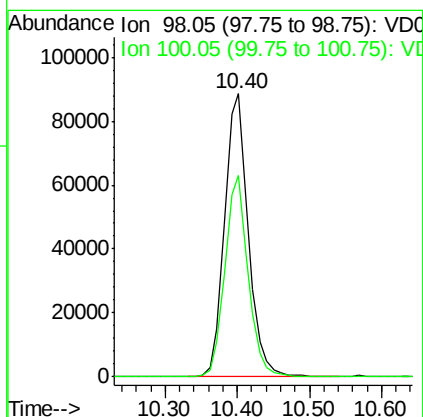
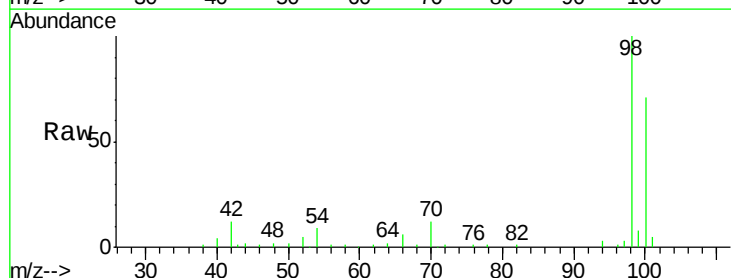
Acq: 12 Apr 2019 5:38

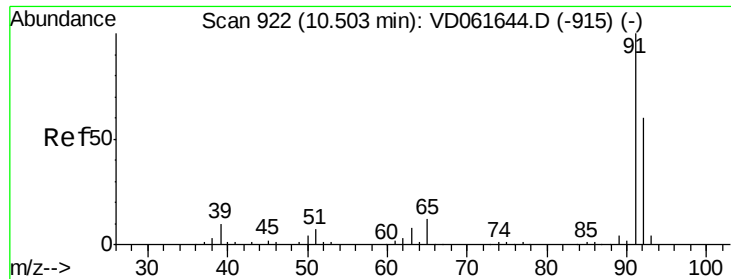
Tgt Ion: 98 Resp: 201193

Ion Ratio Lower Upper

98 100

100 71.2 55.4 83.0





#52

Toluene

Concen: 11.347 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

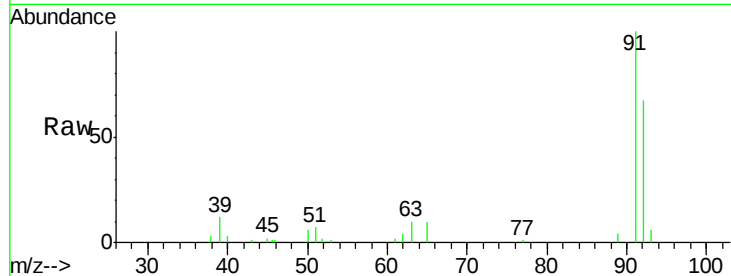
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 33386

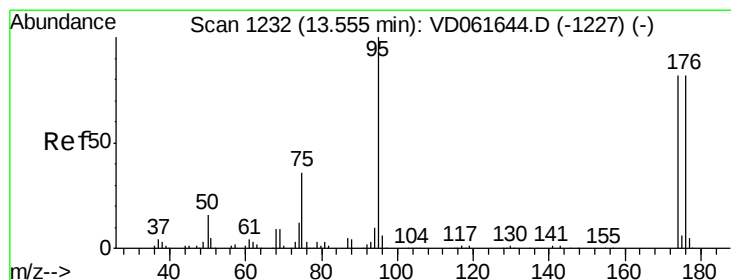
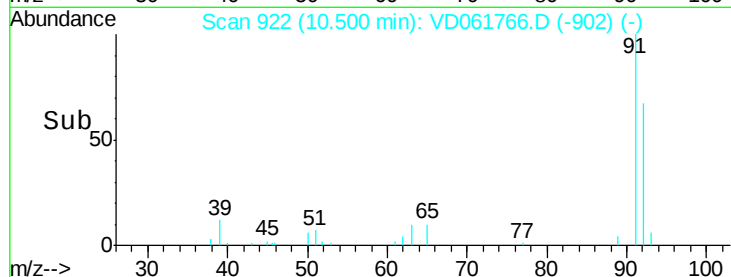
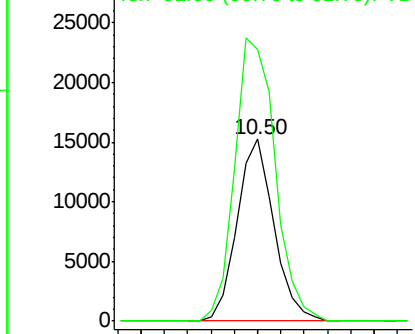
Ion Ratio Lower Upper

92 100

91 149.8 133.0 199.4



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

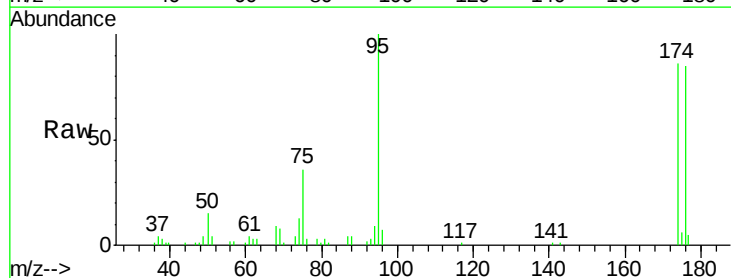
Tgt Ion: 95 Resp: 87484

Ion Ratio Lower Upper

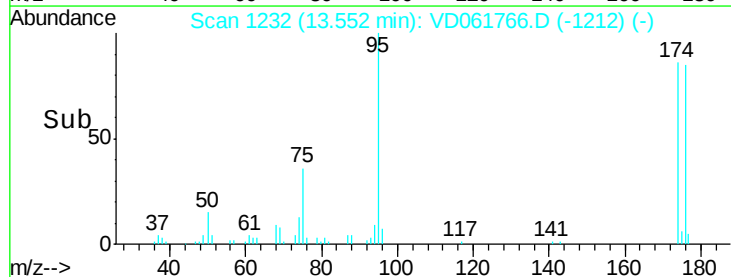
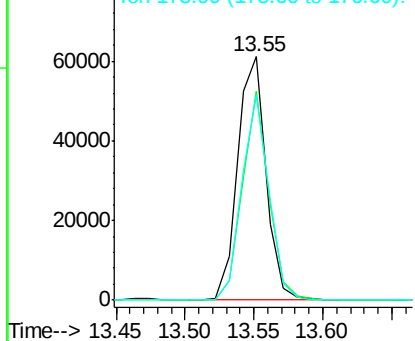
95 100

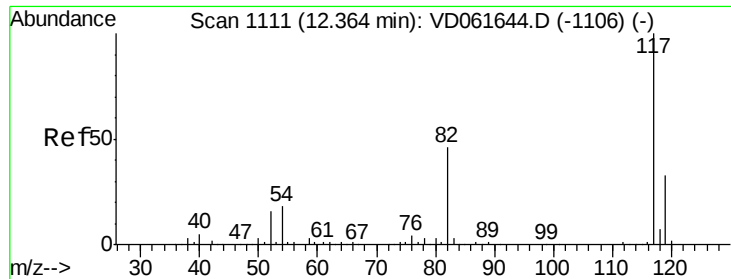
174 85.6 0.0 164.6

176 84.5 0.0 165.0



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

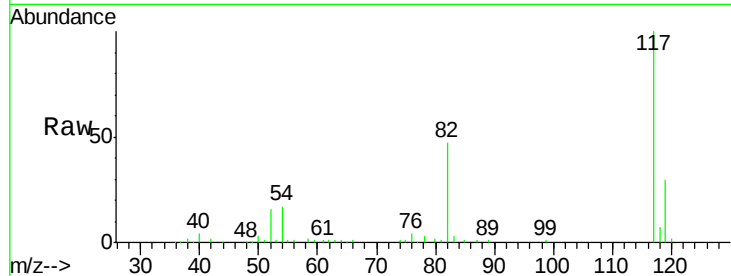




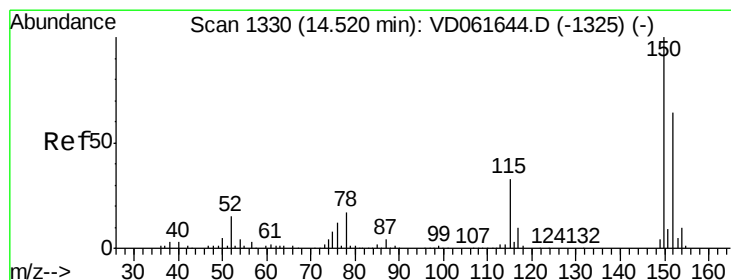
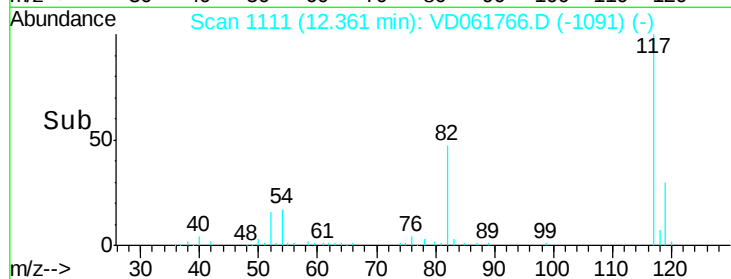
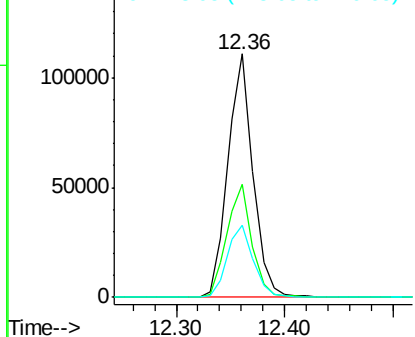
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.36 min Scan# 1111
 Delta R.T. -0.00 min
 Lab File: VD061766.D
 Acq: 12 Apr 2019 5:38

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion:117 Resp: 178486
 Ion Ratio Lower Upper
 117 100
 82 46.6 36.8 55.2
 119 29.8 26.1 39.1

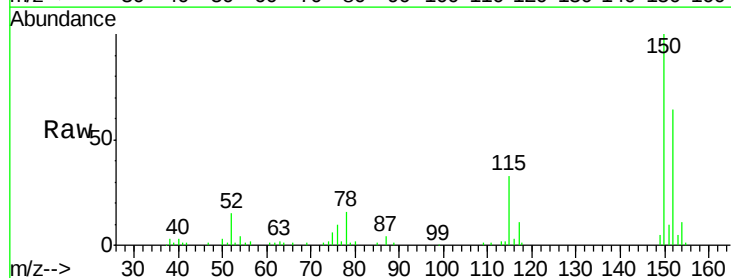


Abundance Ion 116.95 (116.65 to 117.65): V
 Ion 82.05 (81.75 to 82.75): V
 Ion 118.95 (118.65 to 119.65): V

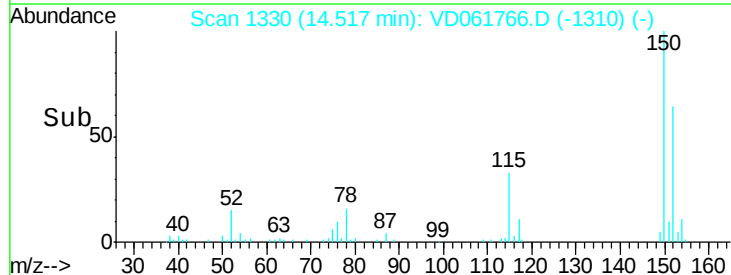
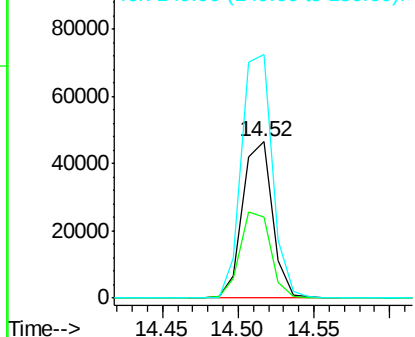


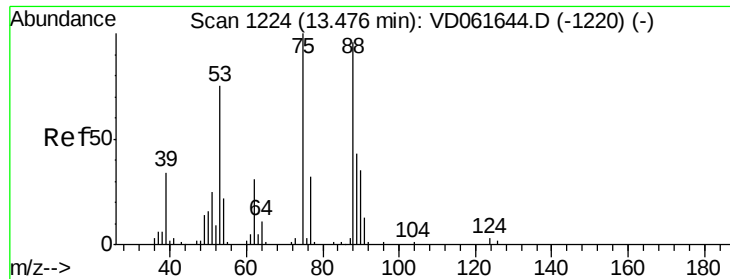
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD061766.D
 Acq: 12 Apr 2019 5:38

Tgt Ion:152 Resp: 63966
 Ion Ratio Lower Upper
 152 100
 115 51.7 26.4 79.2
 150 156.0 0.0 320.6



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: 124.105 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061766.D

Acq: 12 Apr 2019 5:38

Instrument :

MSVOA_D

ClientSampleId :

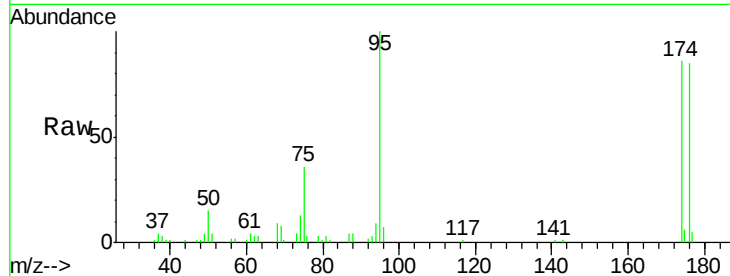
Tot Ion: 75 Resp: 32774

Ion Ratio Lower Upper

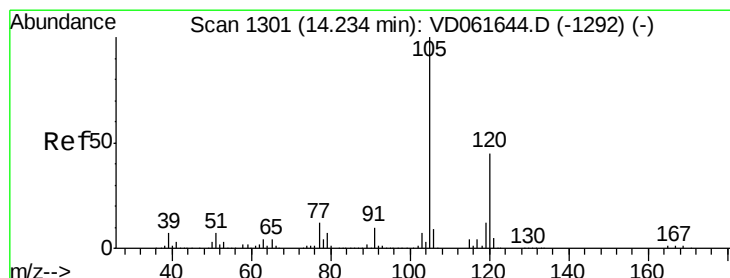
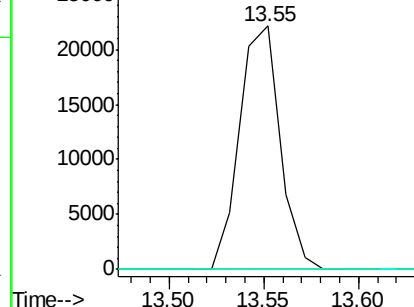
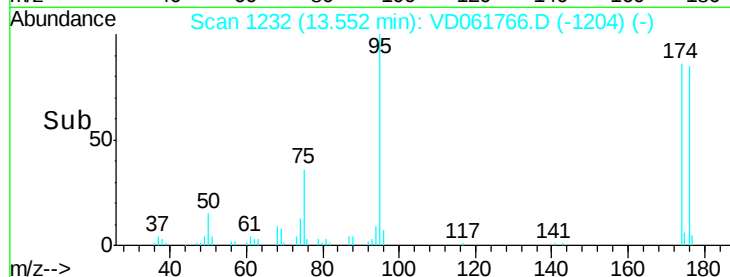
75 100

53 0.0 60.2 90.2#

89 0.0 34.2 51.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.338 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD061766.D

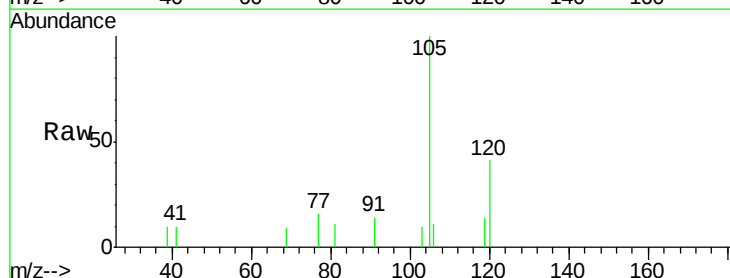
Acq: 12 Apr 2019 5:38

Tgt Ion:105 Resp: 4568

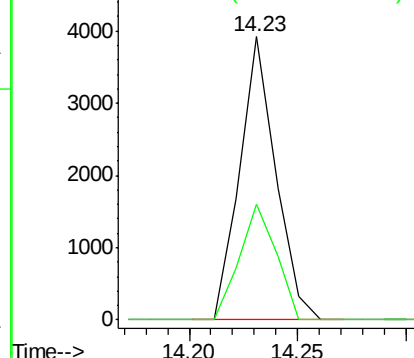
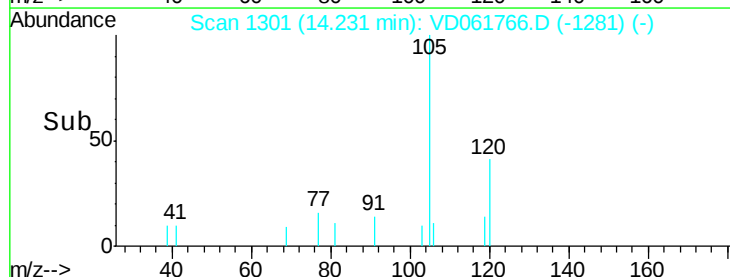
Ion Ratio Lower Upper

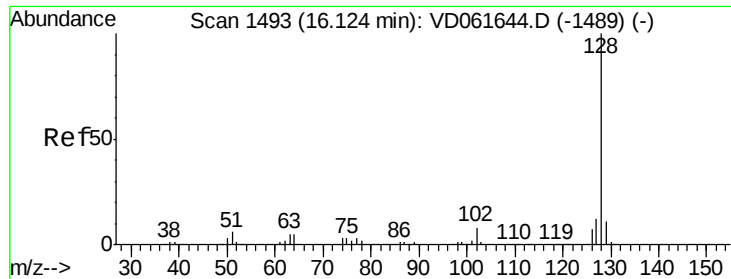
105 100

120 40.8 22.6 67.8



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#95
Naphthalene
Concen: 1.517 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD061766.D
Acq: 12 Apr 2019 5:38

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 2146
Ion Ratio Lower Upper
128 100
127 0.0 9.4 14.2#
129 0.0 8.8 13.2#

