

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061818\
 Data File : VD058181.D
 Acq On : 18 Jun 2018 15:14
 Operator : VA/AP
 Sample : J3518-03
 Misc : 6.82g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:49:22 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	66171	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	98067	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.68	117	94208	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	39715	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	62106	93.88	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	187.76%	
35) Dibromofluoromethane	5.55	113	47241	62.26	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	124.52%	
50) Toluene-d8	8.70	98	96733	53.62	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	107.24%	
62) 4-Bromofluorobenzene	11.92	95	42081	53.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.94%	

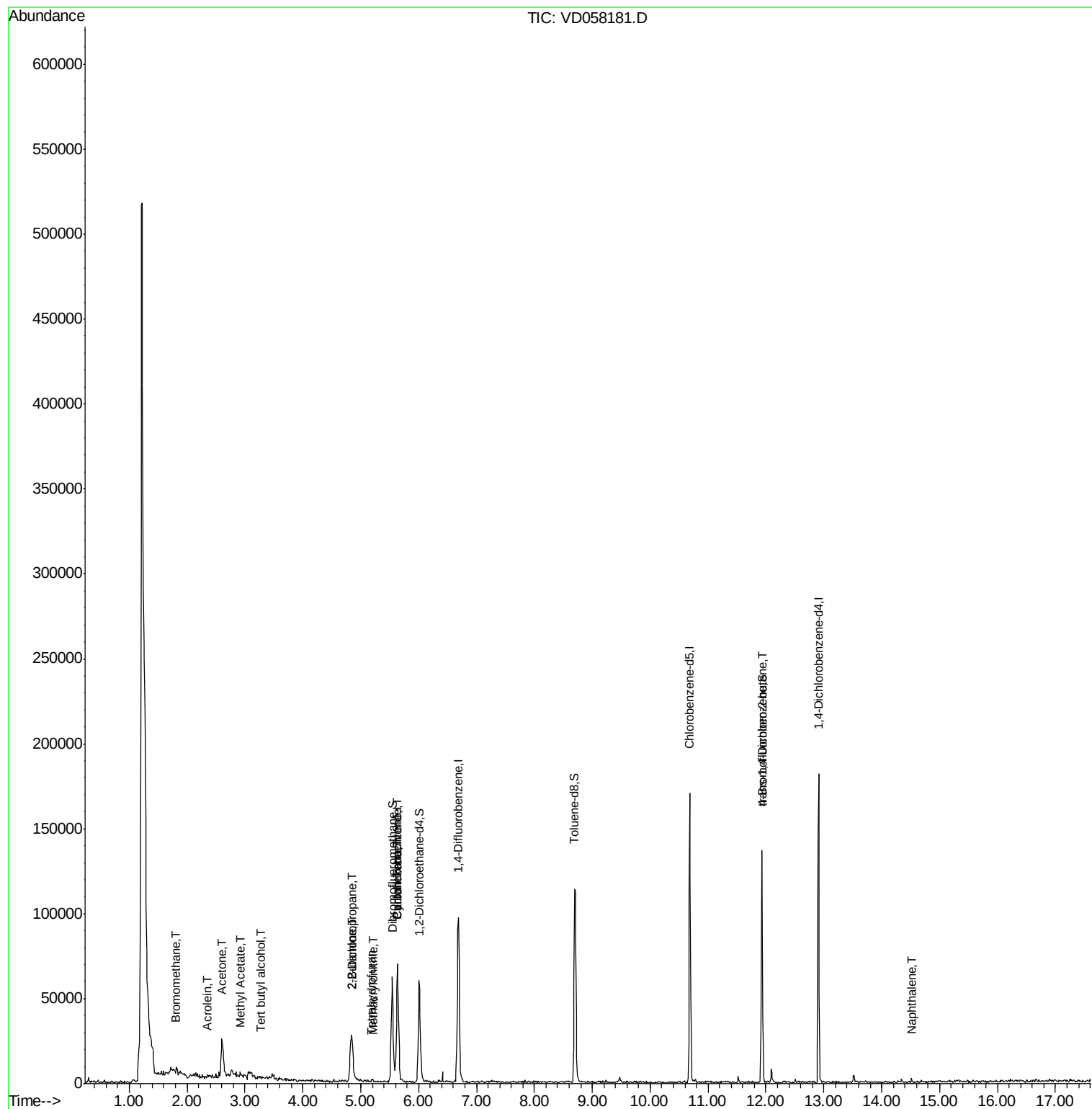
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.81	94	178	1.073	ug/l #	3
11) Tert butyl alcohol	3.26	59	217	12.245	ug/l #	74
13) Acrolein	2.37	56	183	7.210	ug/l #	16
16) Acetone	2.60	43	47104	494.214	ug/l	96
18) Methyl Acetate	2.93	43	3318	17.996	ug/l #	66
20) Methylene Chloride	3.05	84	1533	Below Cal	#	61
25) 2-Butanone	4.85	43	3198	14.764	ug/l #	64
26) 2,2-Dichloropropane	4.85	77	1355	1.234	ug/l #	59
29) Tetrahydrofuran	5.19	42	718	6.323	ug/l #	39
31) Cyclohexane	5.63	56	1583	1.376	ug/l #	3
38) Carbon Tetrachloride	5.63	117	5144	4.831	ug/l #	12
41) Methacrylonitrile	5.21	41	458	1.699	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.92	75	18654	126.243	ug/l #	6
82) 4-Chlorotoluene	12.33	91	431	Below Cal	#	50
95) Naphthalene	14.51	128	1465	1.143	ug/l #	70

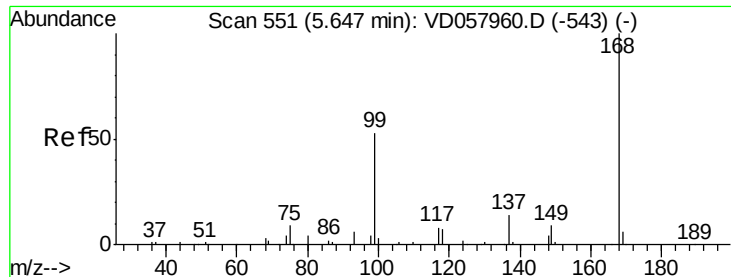
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.01 min

Lab File: VD058181.D

Acq: 18 Jun 2018 15:14

Instrument :

MSVOA_D

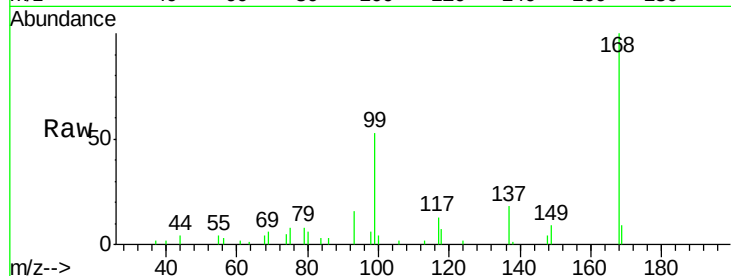
ClientSampleId :

Tot Ion:168 Resp: 66171

Ion Ratio Lower Upper

168 100

99 53.0 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.63

25000

20000

15000

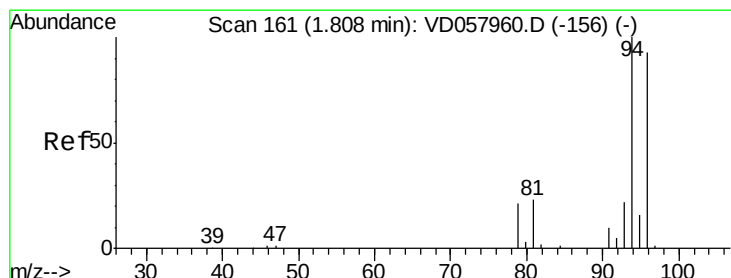
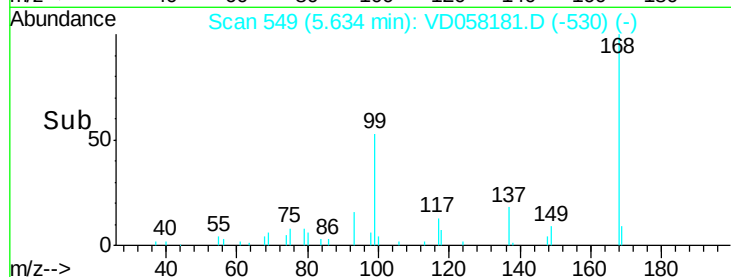
10000

5000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 1.073 ug/l

RT: 1.81 min Scan# 161

Delta R.T. 0.01 min

Lab File: VD058181.D

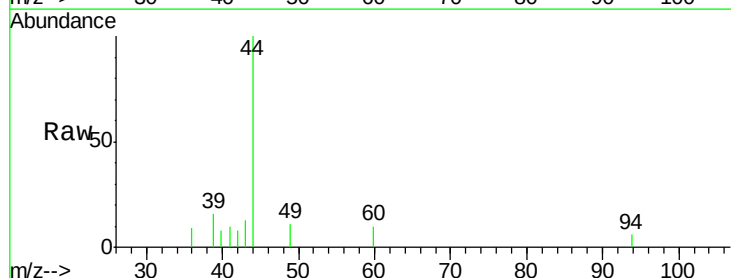
Acq: 18 Jun 2018 15:14

Tgt Ion: 94 Resp: 178

Ion Ratio Lower Upper

94 100

96 0.0 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

500

400

300

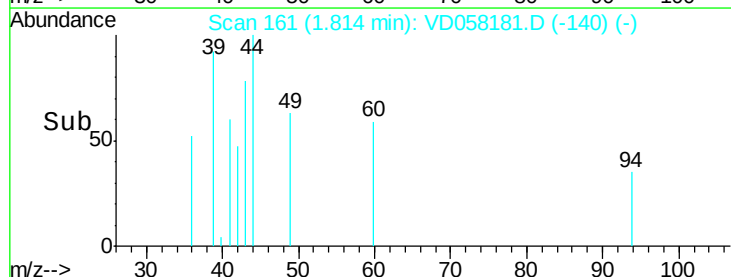
200

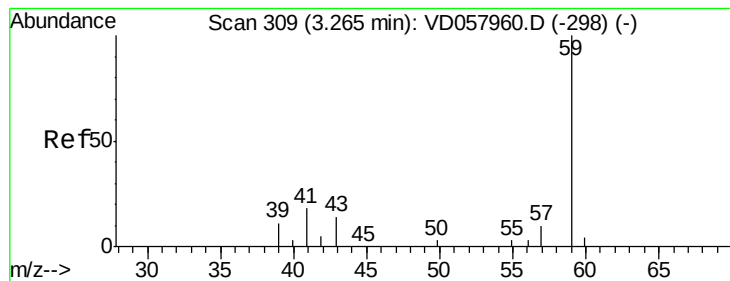
100

0

Time-->

1.78 1.80 1.82 1.84



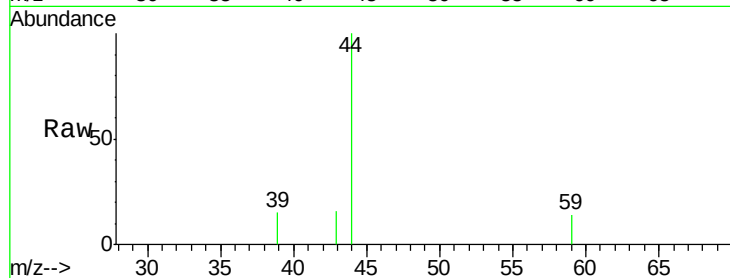


#11

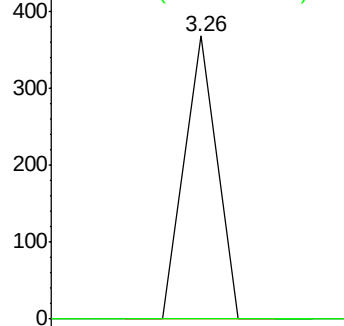
Tert butyl alcohol
 Concen: 12.245 ug/l
 RT: 3.26 min Scan# 308
 Delta R.T. -0.00 min
 Lab File: VD058181.D
 Acq: 18 Jun 2018 15:14

Instrument :
 MSVOA_D
 ClientSampleId :

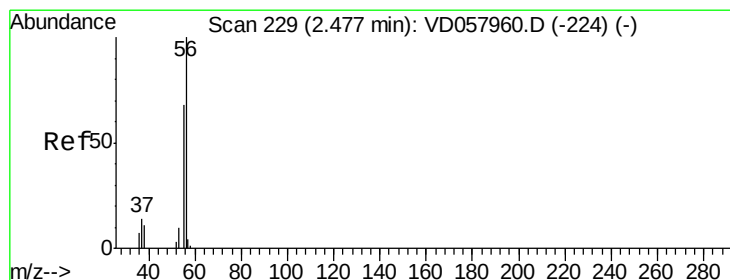
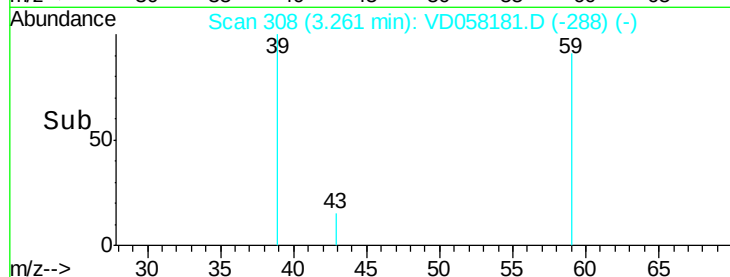
Tot Ion: 59 Resp: 217
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



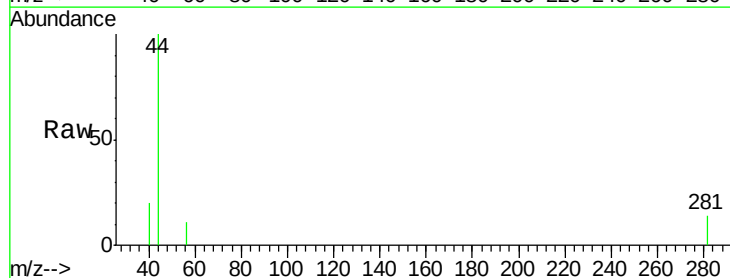
Time-->



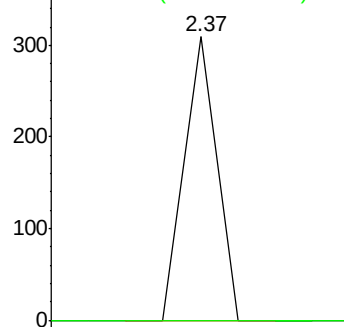
#13

Acrolein
 Concen: 7.210 ug/l
 RT: 2.37 min Scan# 217
 Delta R.T. -0.11 min
 Lab File: VD058181.D
 Acq: 18 Jun 2018 15:14

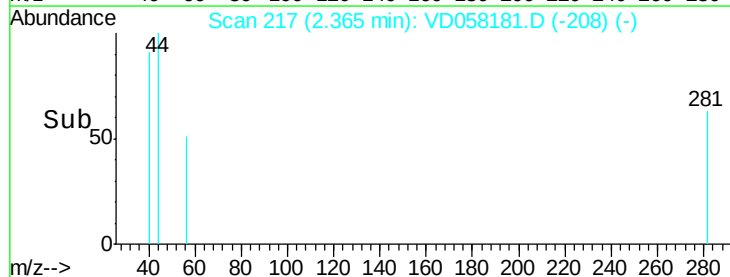
Tgt Ion: 56 Resp: 183
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.0 81.0#

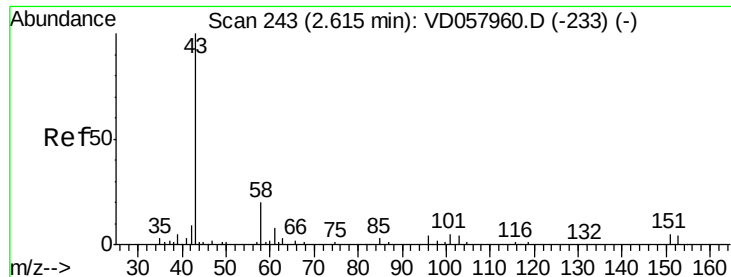


Abundance Ion 55.95 (55.65 to 56.65): VDC
 Ion 55.00 (54.70 to 55.70): VDC



Time-->





#16

Acetone

Concen: 494.214 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.01 min

Lab File: VD058181.D

Acq: 18 Jun 2018 15:14

Instrument :

MSVOA_D

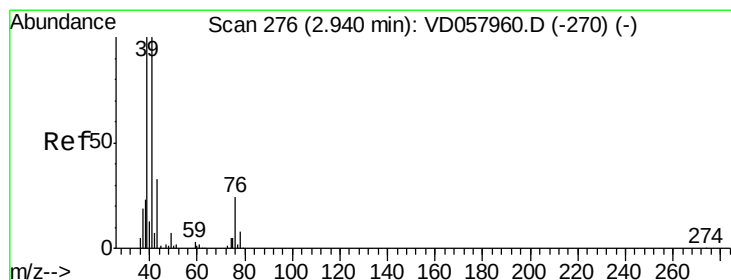
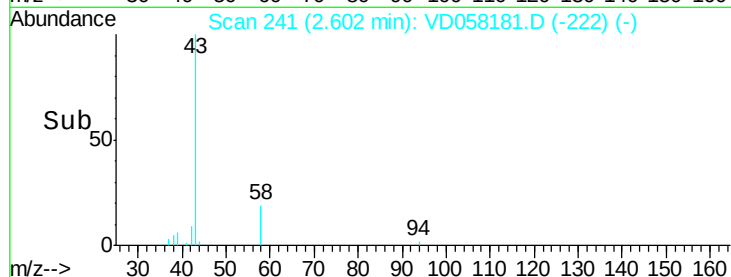
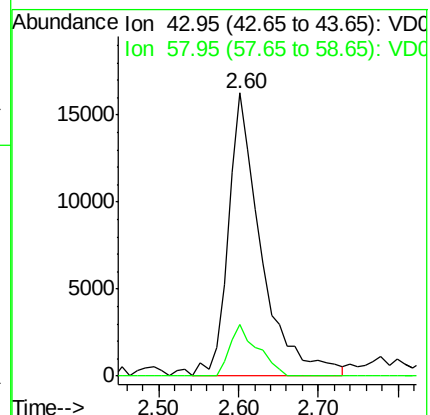
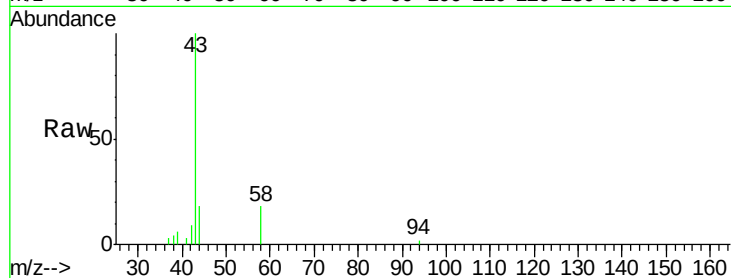
ClientSampled :

Tot Ion: 43 Resp: 47104

Ion Ratio Lower Upper

43 100

58 18.1 15.8 23.8



#18

Methyl Acetate

Concen: 17.996 ug/l

RT: 2.93 min Scan# 274

Delta R.T. -0.01 min

Lab File: VD058181.D

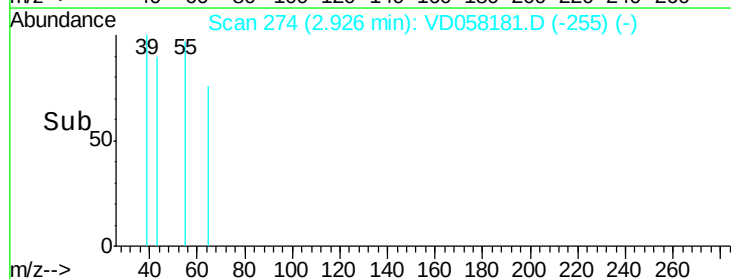
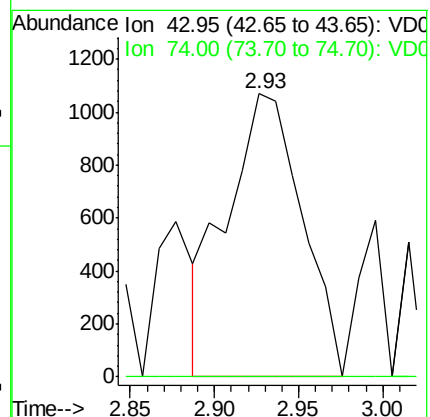
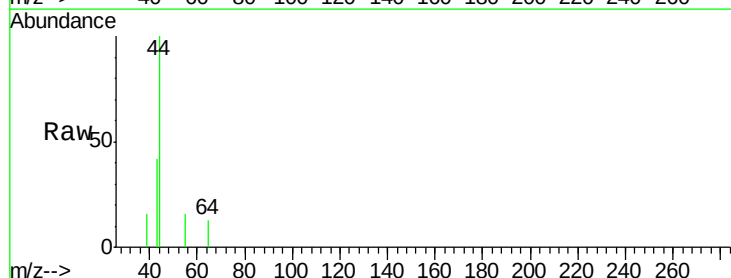
Acq: 18 Jun 2018 15:14

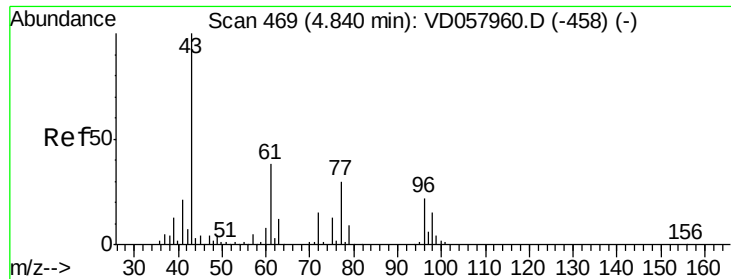
Tgt Ion: 43 Resp: 3318

Ion Ratio Lower Upper

43 100

74 0.0 11.2 16.8#





#25

2-Butanone

Concen: 14.764 ug/l

RT: 4.85 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD058181.D

Acq: 18 Jun 2018 15:14

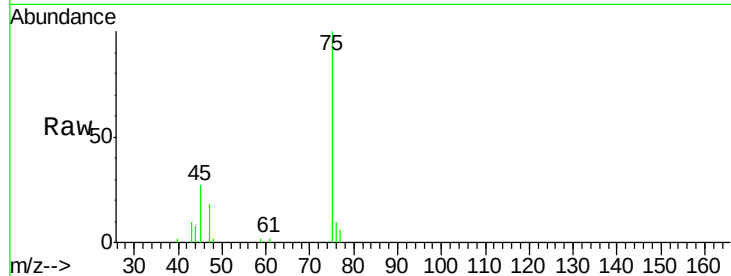
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 3198

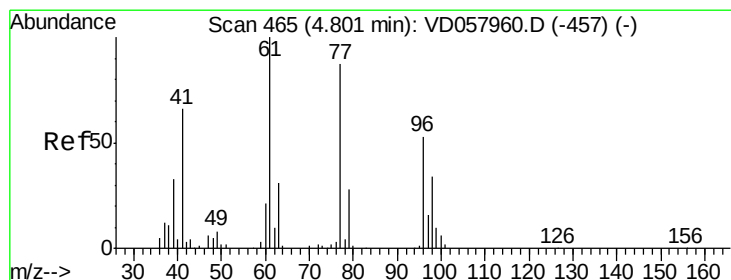
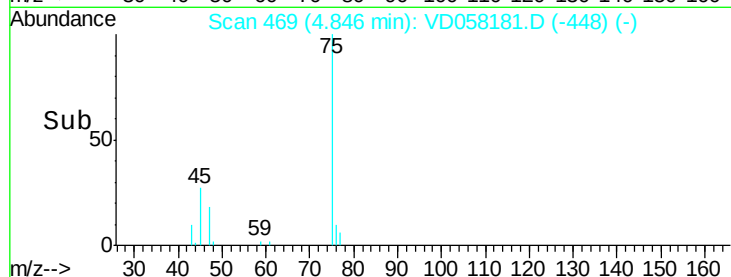
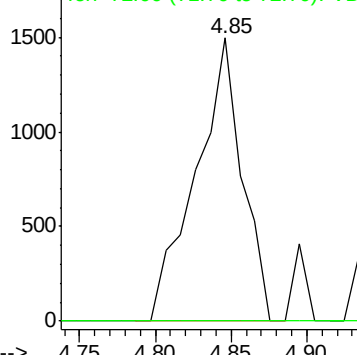
Ion Ratio Lower Upper

43 100

72 0.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.234 ug/l

RT: 4.85 min Scan# 469

Delta R.T. 0.05 min

Lab File: VD058181.D

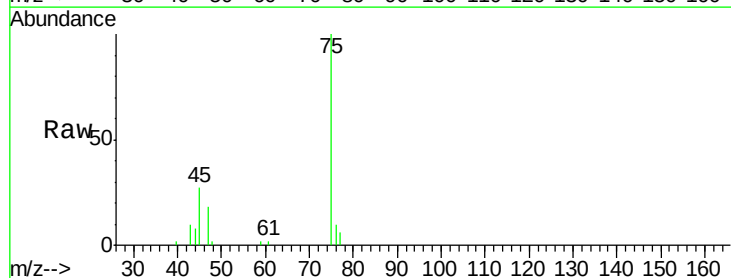
Acq: 18 Jun 2018 15:14

Tgt Ion: 77 Resp: 1355

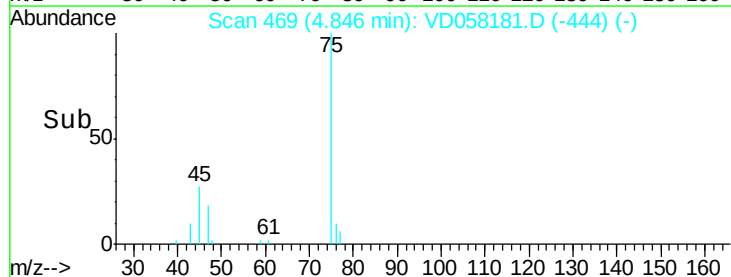
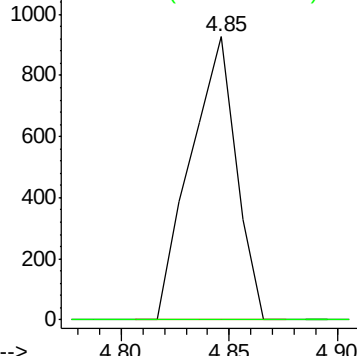
Ion Ratio Lower Upper

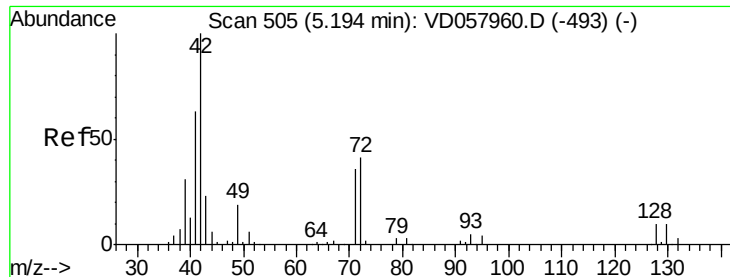
77 100

97 0.0 9.2 27.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC

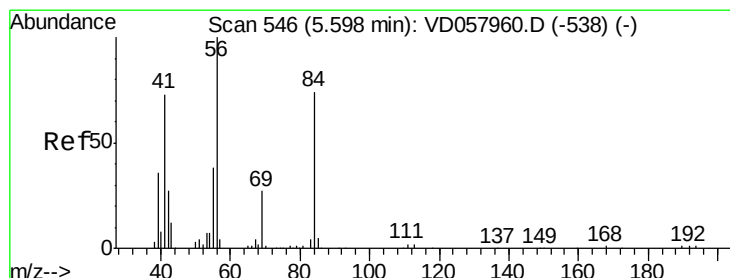
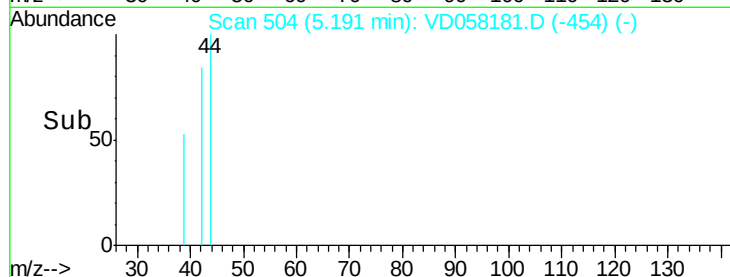
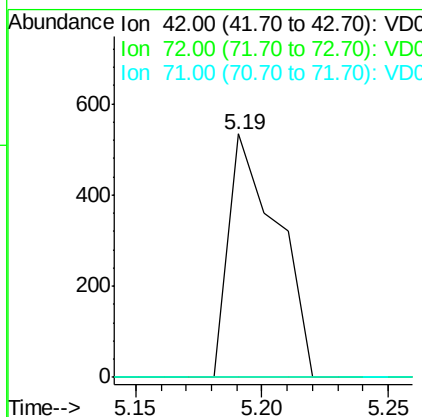
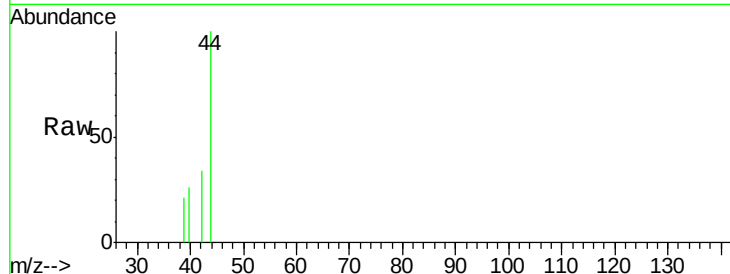




#29
Tetrahydrofuran
Concen: 6.323 ug/l
RT: 5.19 min Scan# 504
Delta R.T. -0.00 min
Lab File: VD058181.D
Acq: 18 Jun 2018 15:14

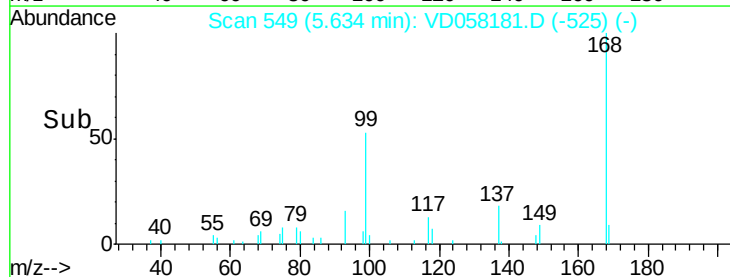
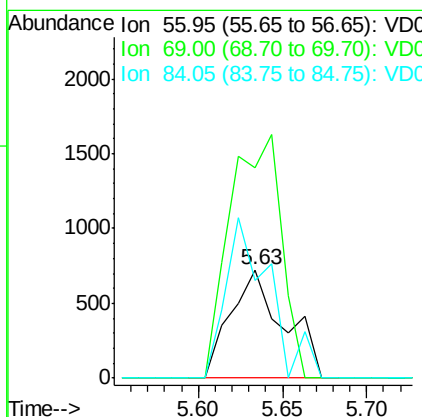
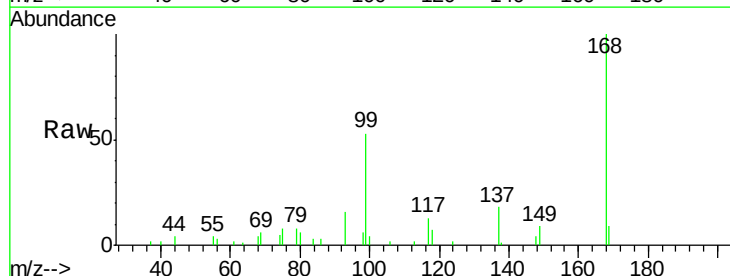
Instrument :
MSVOA_D
ClientSampleId :

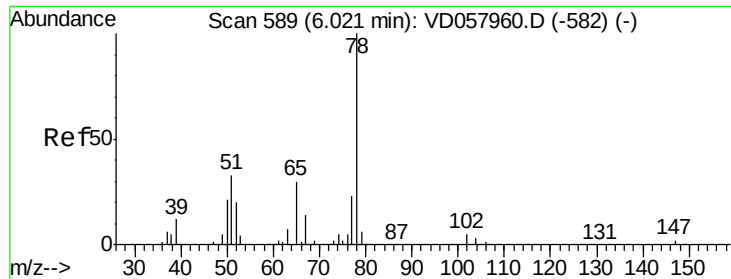
Tot Ion: 42 Resp: 718
Ion Ratio Lower Upper
42 100
72 0.0 28.5 42.7#
71 0.0 27.9 41.9#



#31
Cyclohexane
Concen: 1.376 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.04 min
Lab File: VD058181.D
Acq: 18 Jun 2018 15:14

Tgt Ion: 56 Resp: 1583
Ion Ratio Lower Upper
56 100
69 194.5 21.5 32.3#
84 90.7 61.0 91.6

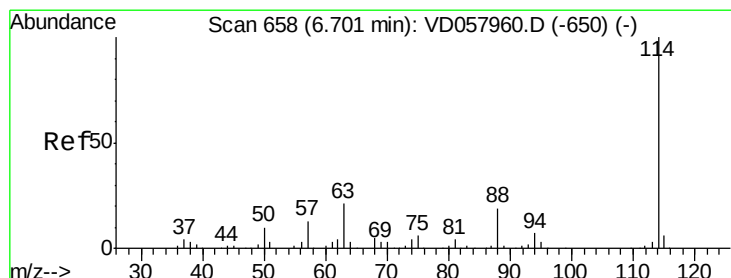
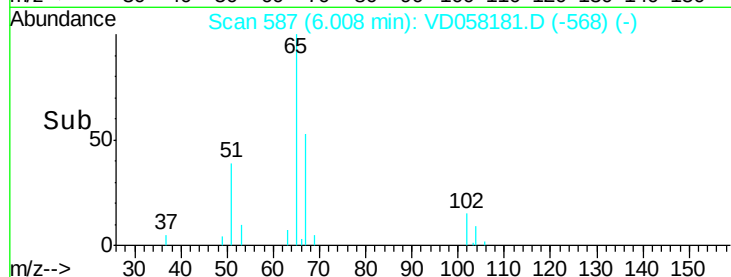
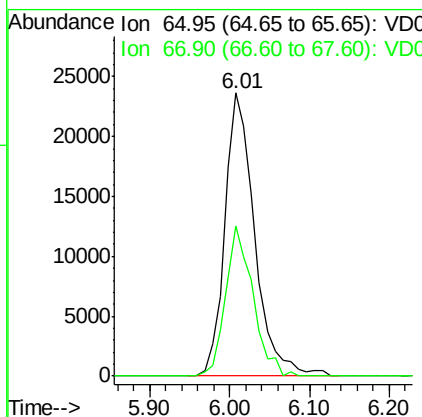
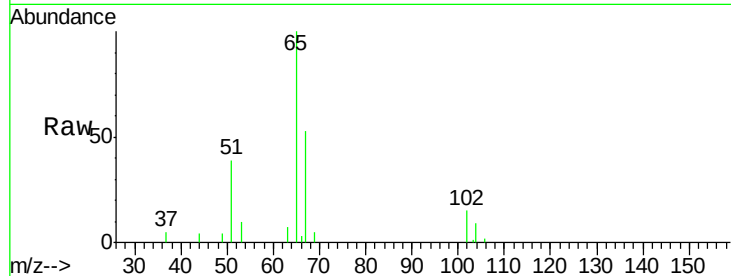




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 587
 Delta R.T. -0.01 min
 Lab File: VD058181.D
 Acq: 18 Jun 2018 15:14

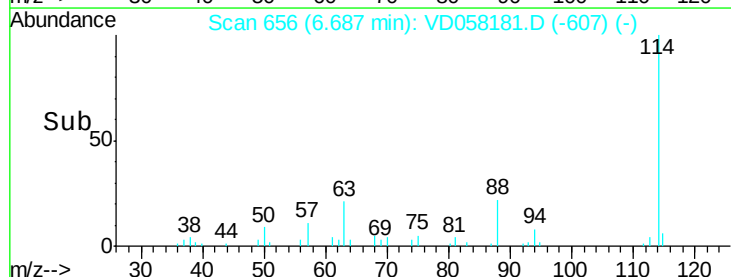
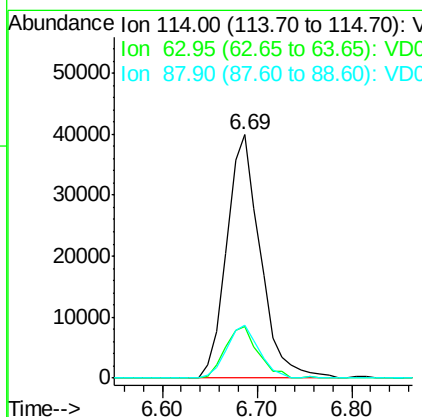
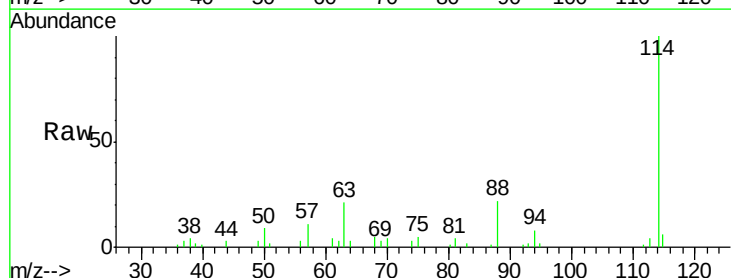
Instrument :
 MSVOA_D
 ClientSampled :

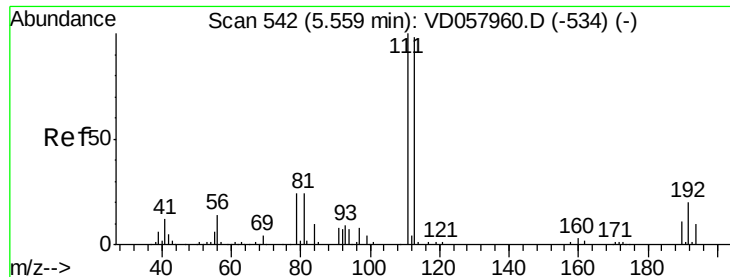
Tot Ion: 65 Resp: 62106
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: VD058181.D
 Acq: 18 Jun 2018 15:14

Tgt Ion: 114 Resp: 98067
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.8
 88 21.5 0.0 37.8

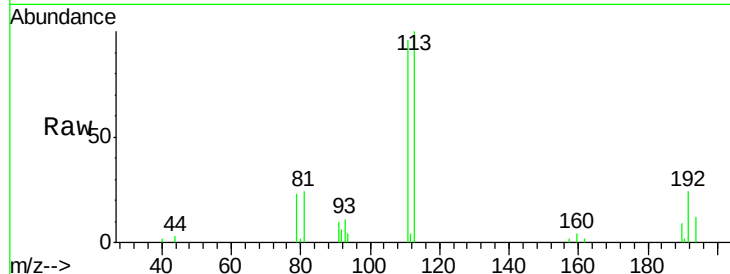




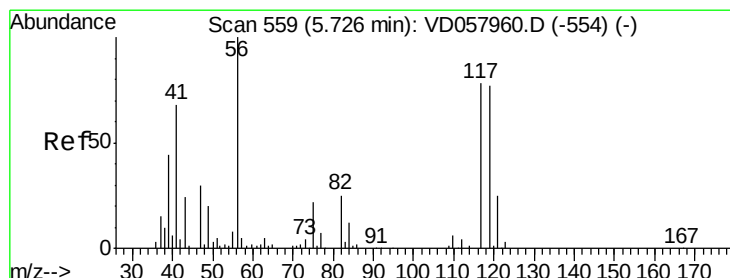
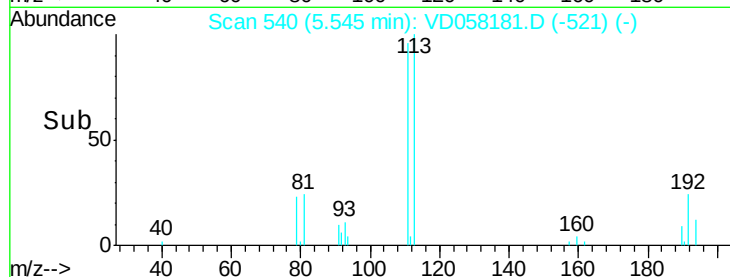
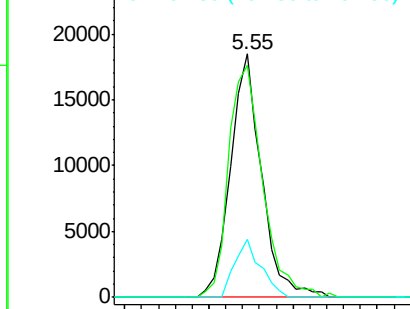
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.55 min Scan# 540
Delta R.T. -0.01 min
Lab File: VD058181.D
Acq: 18 Jun 2018 15:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:113 Resp: 47241
Ion Ratio Lower Upper
113 100
111 95.5 81.5 122.3
192 24.0 16.4 24.6

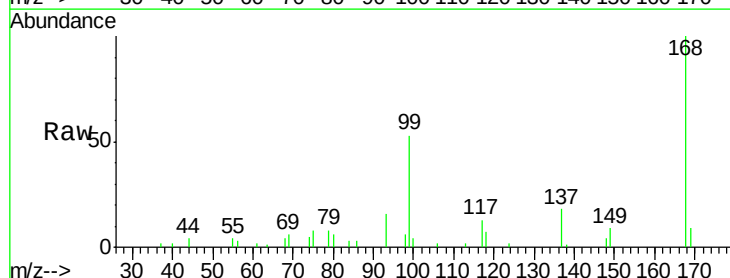


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

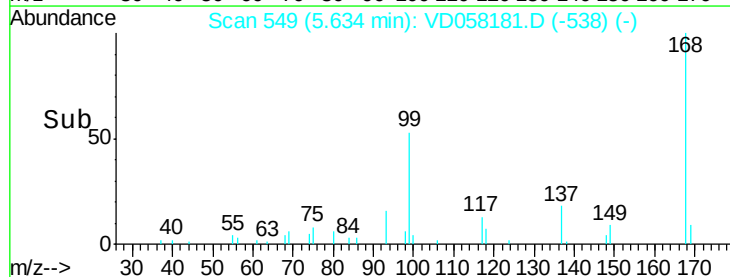
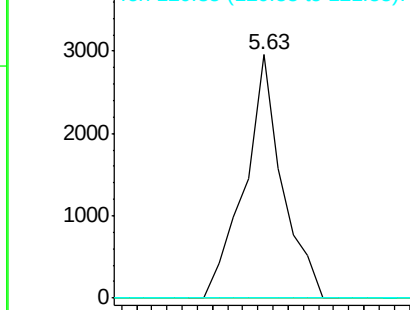


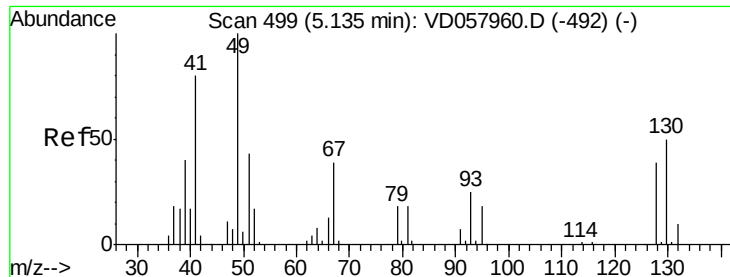
#38
Carbon Tetrachloride
Concen: 4.831 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.09 min
Lab File: VD058181.D
Acq: 18 Jun 2018 15:14

Tgt Ion:117 Resp: 5144
Ion Ratio Lower Upper
117 100
119 0.0 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

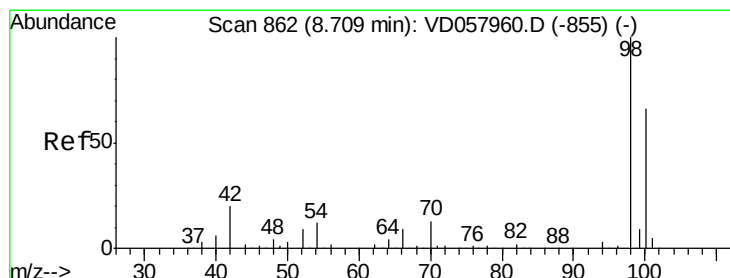
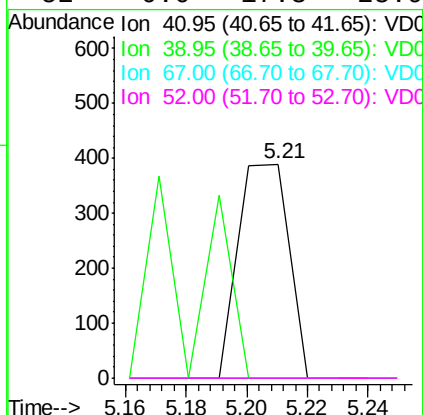
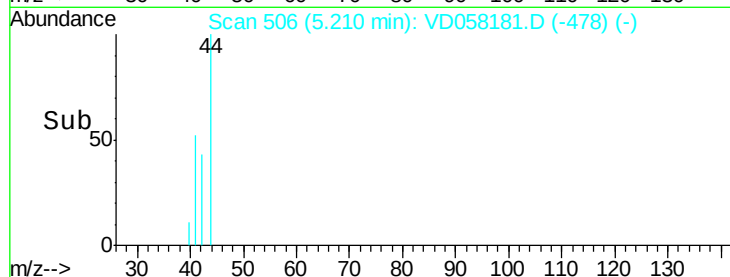
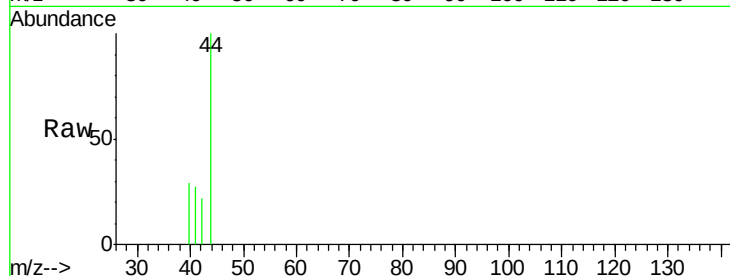




#41
Methacrylonitrile
Concen: 1.699 ug/l
RT: 5.21 min Scan# 506
Delta R.T. 0.07 min
Lab File: VD058181.D
Acq: 18 Jun 2018 15:14

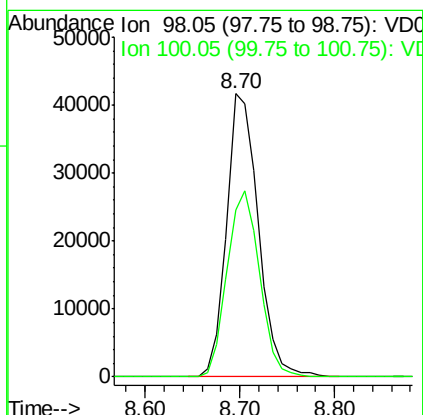
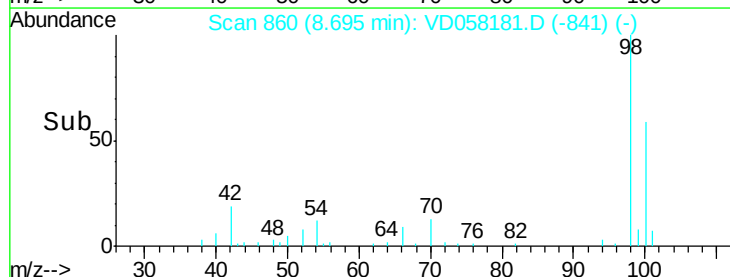
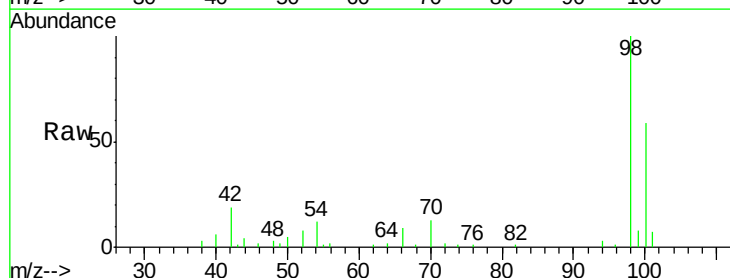
Instrument :
MSVOA_D
ClientSampled :

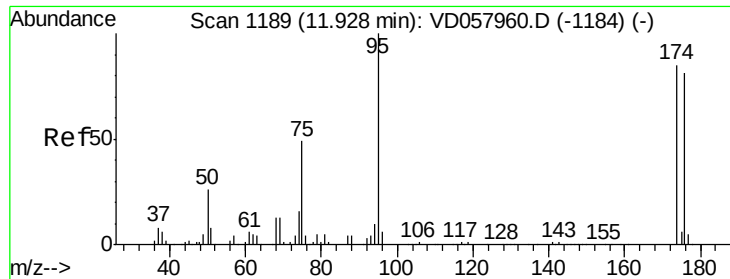
Tot Ion: 41 Resp: 458
Ion Ratio Lower Upper
41 100
39 0.0 40.7 61.1#
67 0.0 38.8 58.2#
52 0.0 17.3 25.9#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 860
Delta R.T. -0.01 min
Lab File: VD058181.D
Acq: 18 Jun 2018 15:14

Tgt Ion: 98 Resp: 96733
Ion Ratio Lower Upper
98 100
100 59.1 53.4 80.0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VD058181.D

Acq: 18 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

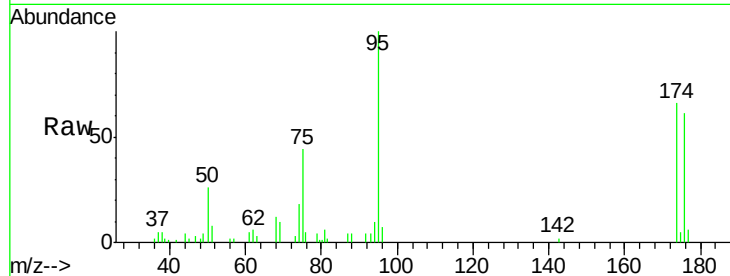
Tot Ion: 95 Resp: 42081

Ion Ratio Lower Upper

95 100

174 65.7 0.0 169.4

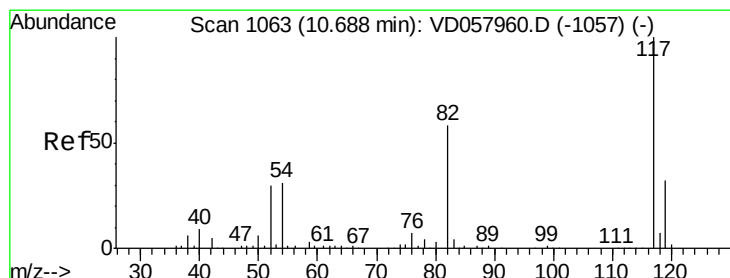
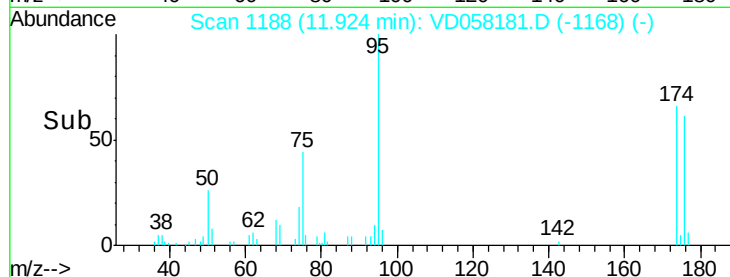
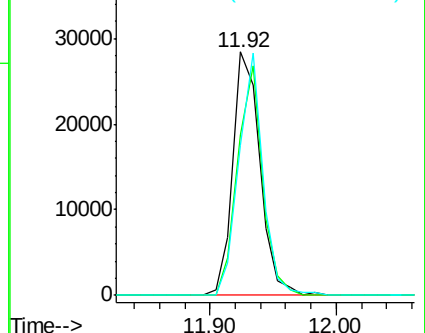
176 61.4 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): V

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: VD058181.D

Acq: 18 Jun 2018 15:14

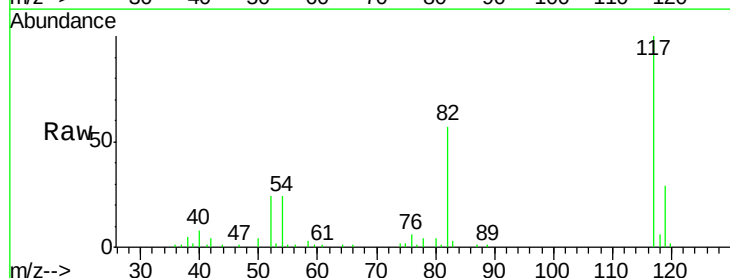
Tgt Ion: 117 Resp: 94208

Ion Ratio Lower Upper

117 100

82 57.1 46.8 70.2

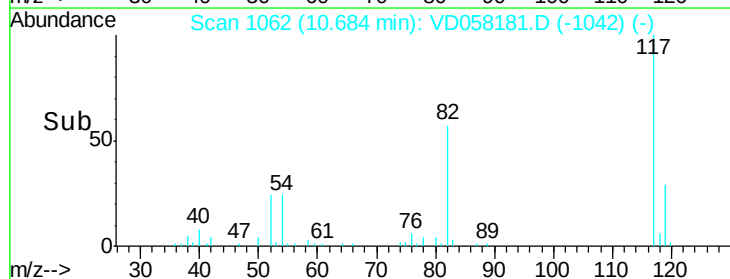
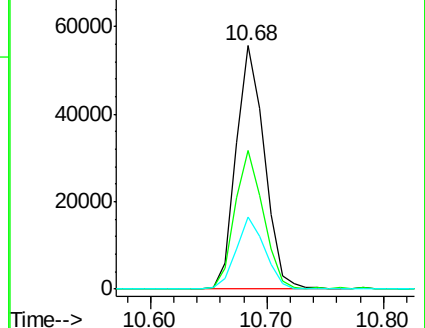
119 29.4 25.8 38.6

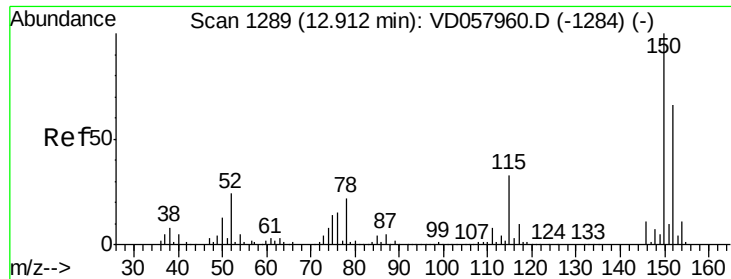


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD058181.D

Acq: 18 Jun 2018 15:14

Instrument :

MSVOA_D

ClientSampleId :

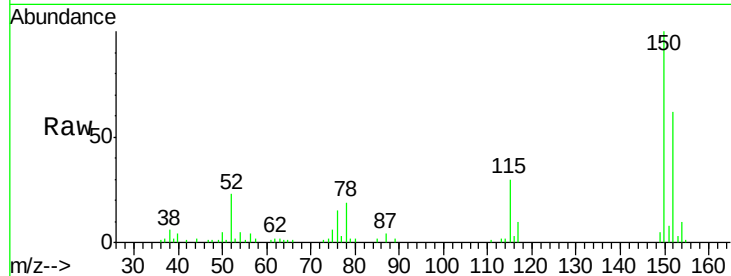
Tot Ion:152 Resp: 39715

Ion Ratio Lower Upper

152 100

115 48.7 25.6 76.6

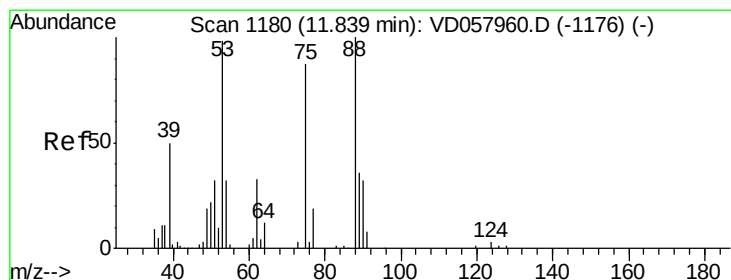
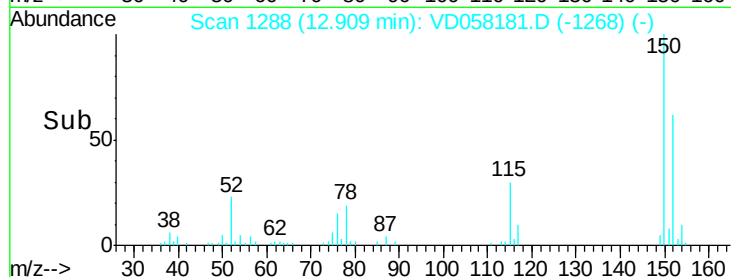
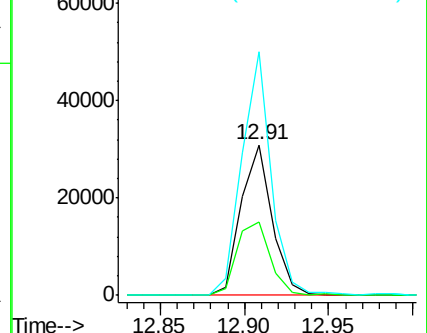
150 161.8 0.0 306.8



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: 126.243 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058181.D

Acq: 18 Jun 2018 15:14

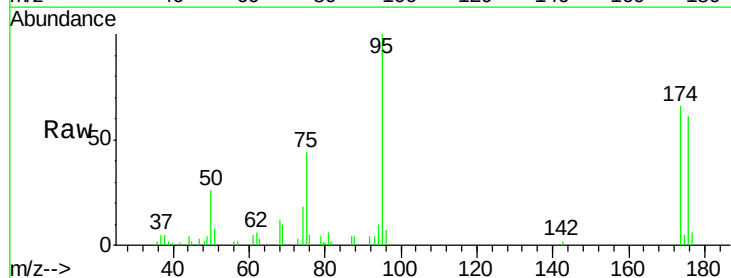
Tgt Ion: 75 Resp: 18654

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

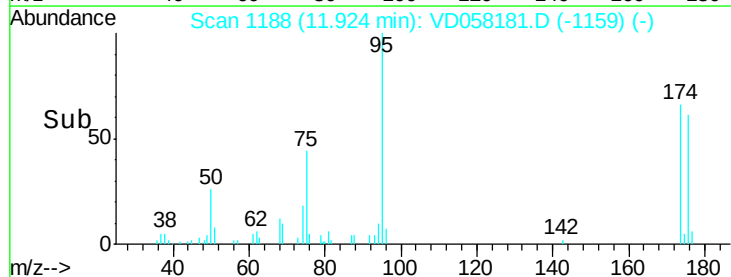
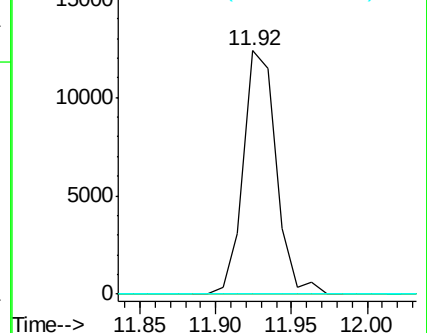
89 0.0 33.3 49.9#

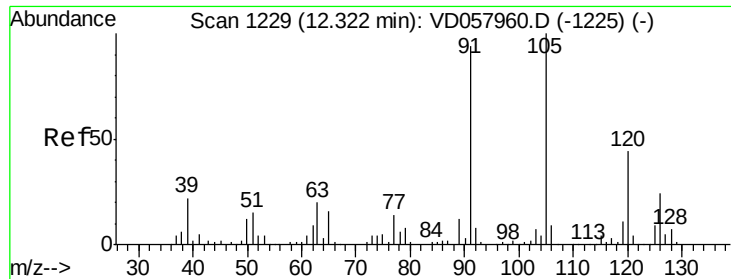


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

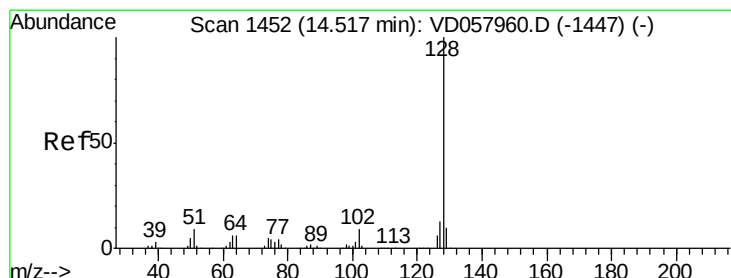
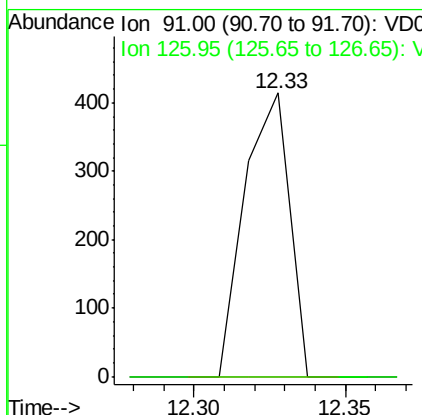
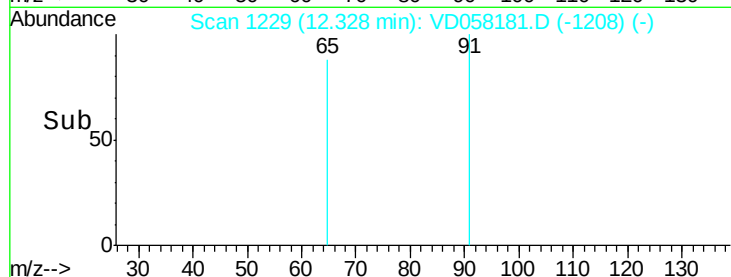
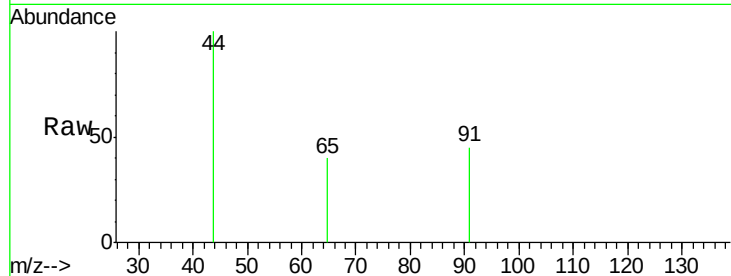




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.33 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: VD058181.D
 Acq: 18 Jun 2018 15:14

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 91 Resp: 431
 Ion Ratio Lower Upper
 91 100
 126 0.0 12.5 37.5#



#95
 Naphthalene
 Concen: 1.143 ug/l
 RT: 14.51 min Scan# 1451
 Delta R.T. -0.00 min
 Lab File: VD058181.D
 Acq: 18 Jun 2018 15:14

Tgt Ion: 128 Resp: 1465
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.2 12.2#

