

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058041.D
 Acq On : 9 Jun 2018 4:02
 Operator : VA/AP
 Sample : J3354-02
 Misc : 16.20g/5ml/MSVOA D/SOIL
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 09 05:44:16 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	5.64	168	616861	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	792538	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.69	117	604346	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	270170	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	324734	52.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.32%	
35) Dibromofluoromethane	5.54	113	356303	58.11	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	116.22%	
50) Toluene-d8	8.70	98	812968	55.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.52%	
62) 4-Bromofluorobenzene	11.93	95	313097	49.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.46%	

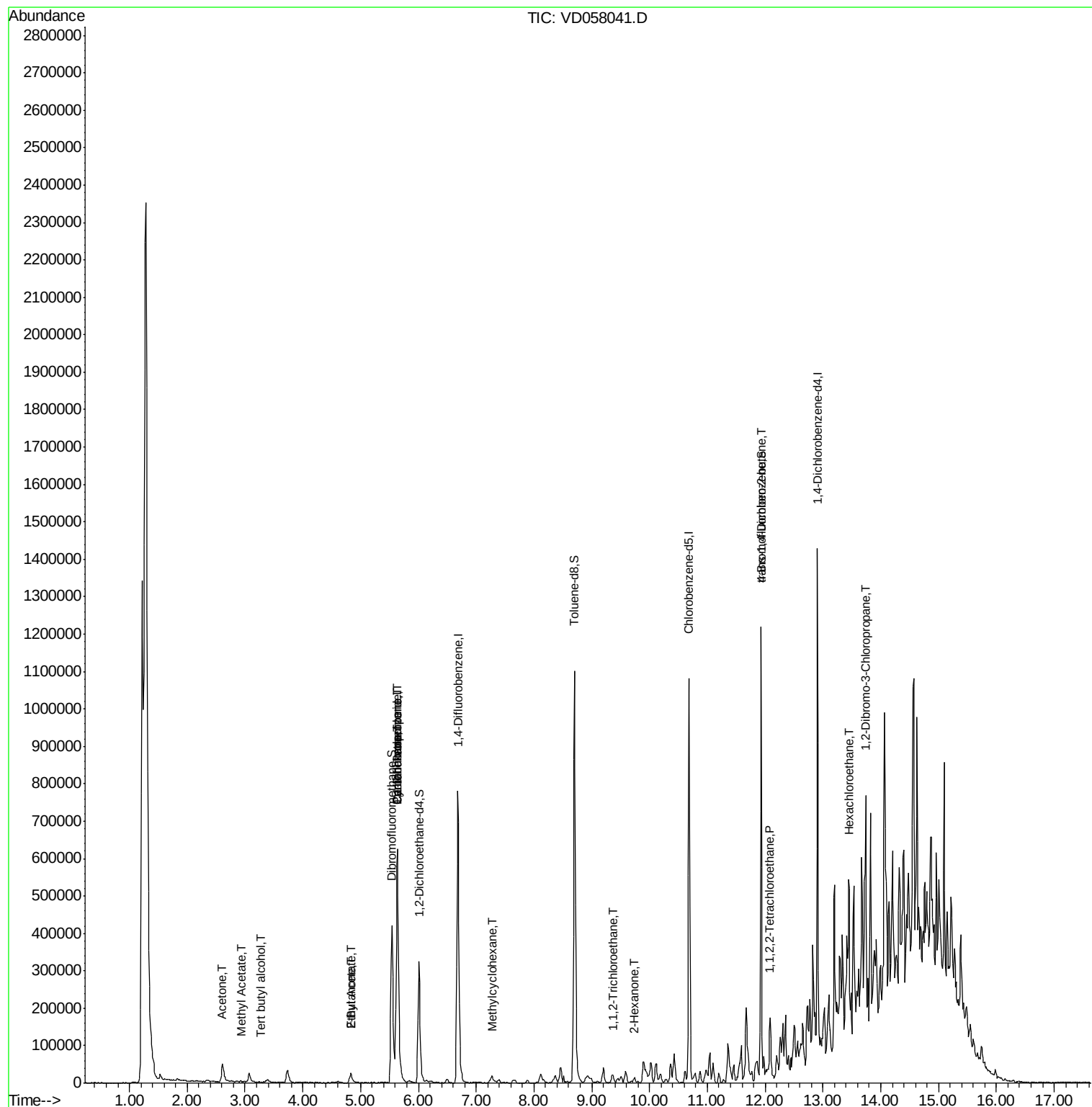
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.27	59	290	1.755	ug/l #	74
16) Acetone	2.61	43	108092	121.655	ug/l	96
18) Methyl Acetate	2.93	43	3716	2.162	ug/l #	66
20) Methylene Chloride	3.07	84	9927	Below Cal		94
25) 2-Butanone	4.83	43	35490	17.576	ug/l #	83
31) Cyclohexane	5.65	56	19534	1.822	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	53057	6.076	ug/l #	52
37) Ethyl Acetate	4.83	43	35490	7.449	ug/l #	72
38) Carbon Tetrachloride	5.64	117	54629	6.348	ug/l #	16
39) Methylcyclohexane	7.27	83	9484	1.096	ug/l #	78
55) 1,1,2-Trichloroethane	9.36	97	8964	2.366	ug/l #	18
59) 2-Hexanone	9.74	43	5086	1.734	ug/l #	31
75) 1,1,2,2-Tetrachloroethane	12.09	83	9470	2.427	ug/l #	43
81) trans-1,4-Dichloro-2-buten	11.93	75	148912	148.143	ug/l #	6
82) 4-Chlorotoluene	12.31	91	2806	Below Cal	#	50
89) n-Butylbenzene	13.20	91	6044	Below Cal	#	47
90) Hexachloroethane	13.45	117	12324	3.150	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.74	75	1548	2.571	ug/l #	11

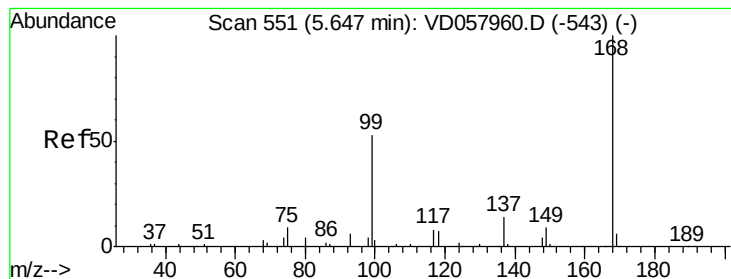
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration

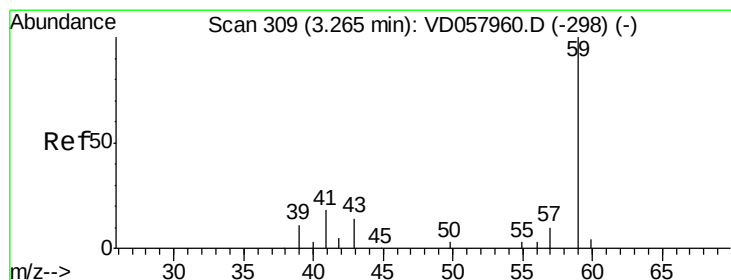
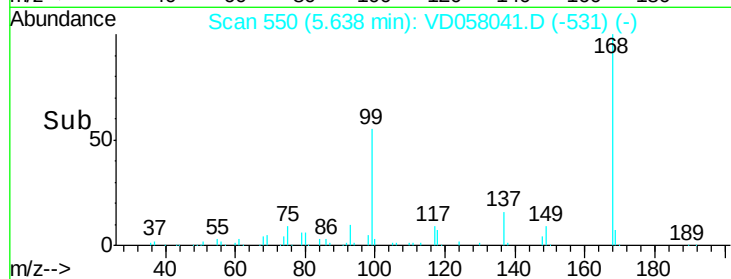
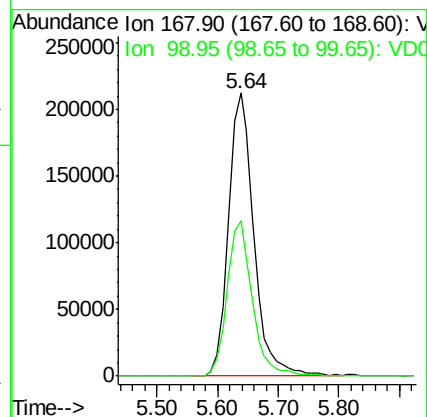
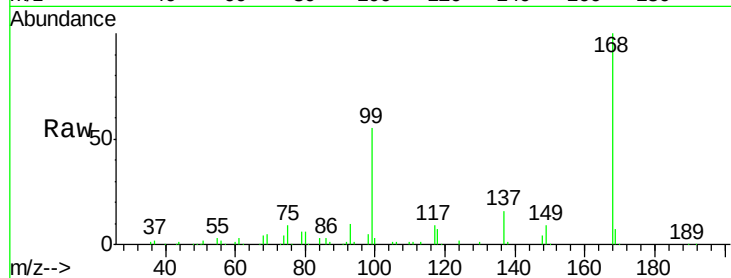




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.01 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

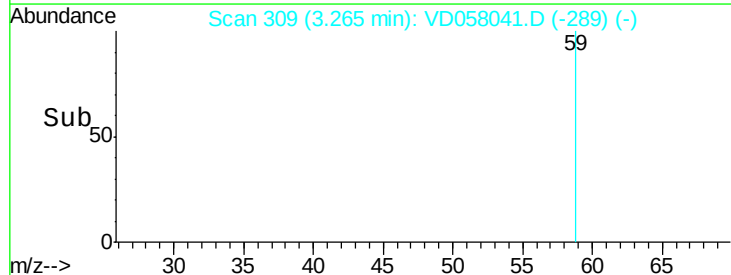
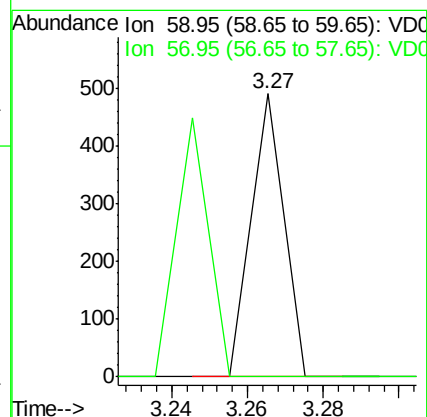
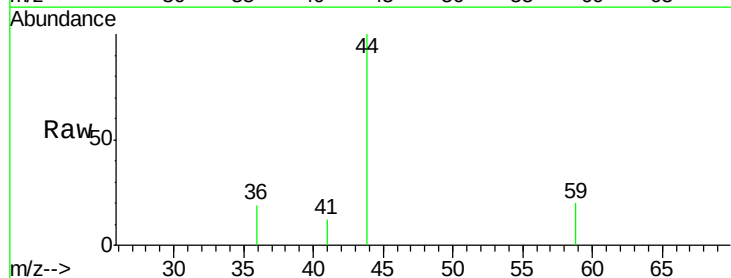
Instrument :
MSVOA_D
ClientSampleId :

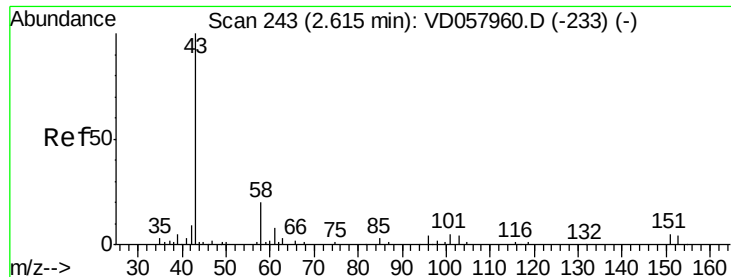
Tot Ion:168 Resp: 616861
Ion Ratio Lower Upper
168 100
99 55.0 46.8 70.2



#11
Tert butyl alcohol
Concen: 1.755 ug/l
RT: 3.27 min Scan# 309
Delta R.T. 0.00 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Tgt Ion: 59 Resp: 290
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

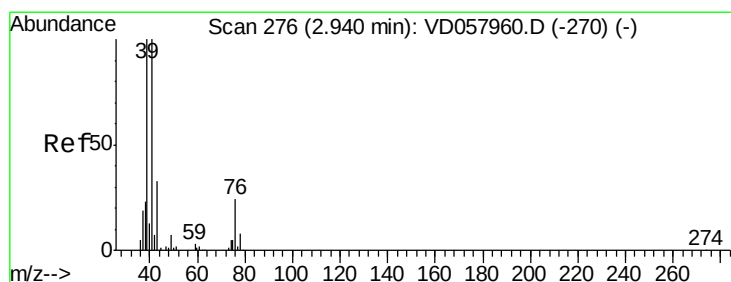
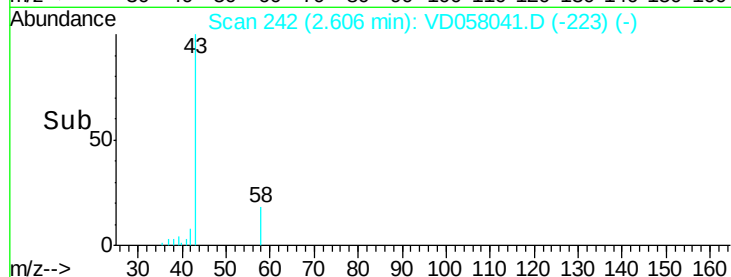
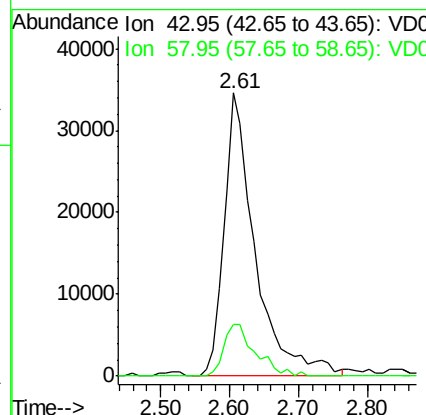
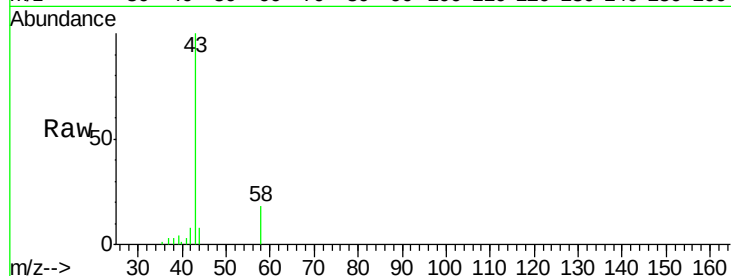




#16
Acetone
Concen: 121.655 ug/l
RT: 2.61 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

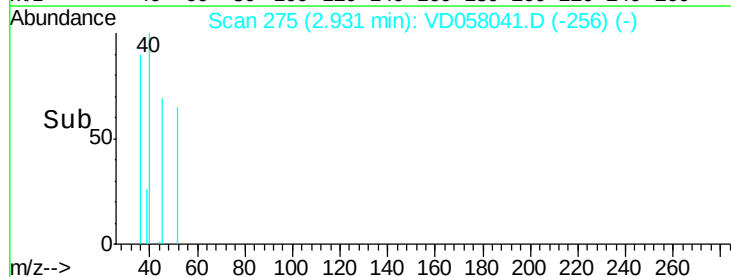
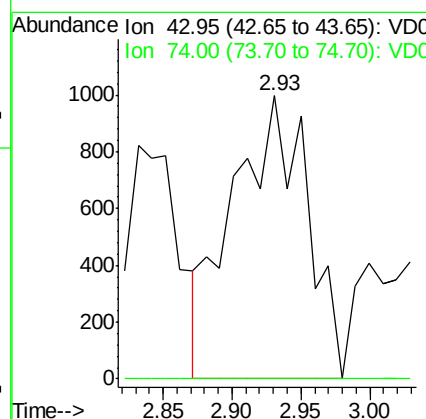
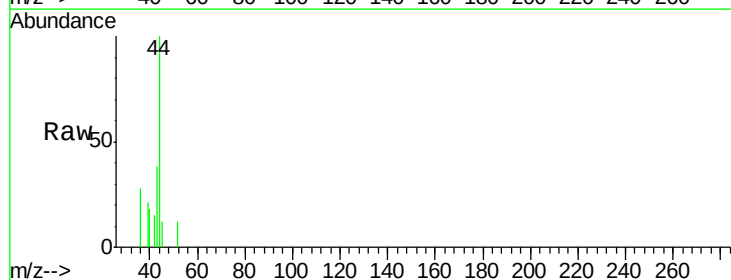
Instrument :
MSVOA_D
ClientSampleId :

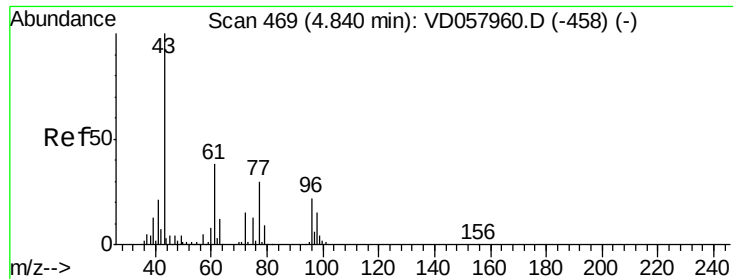
Tot Ion: 43 Resp: 108092
Ion Ratio Lower Upper
43 100
58 18.1 15.8 23.8



#18
Methyl Acetate
Concen: 2.162 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.01 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Tgt Ion: 43 Resp: 3716
Ion Ratio Lower Upper
43 100
74 0.0 11.2 16.8#





#25

2-Butanone

Concen: 17.576 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058041.D

Acq: 9 Jun 2018 4:02

Instrument :

MSVOA_D

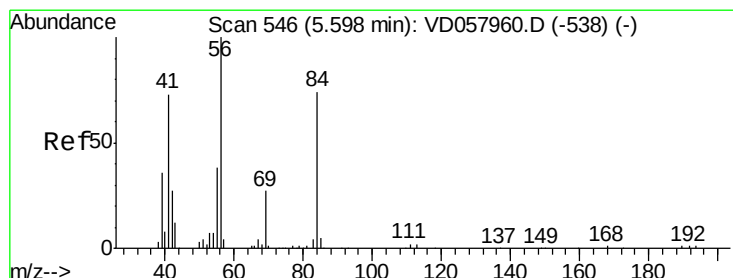
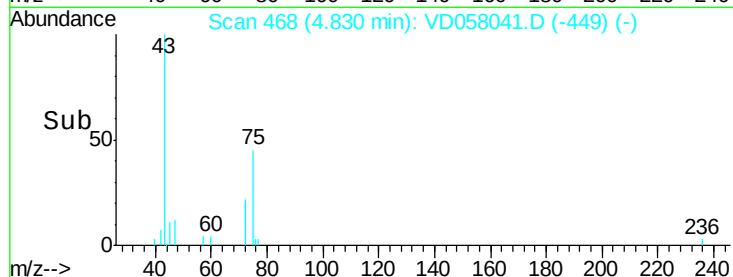
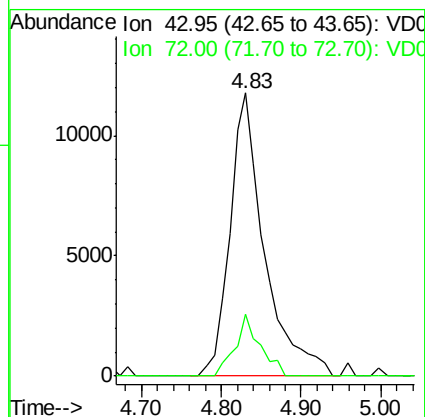
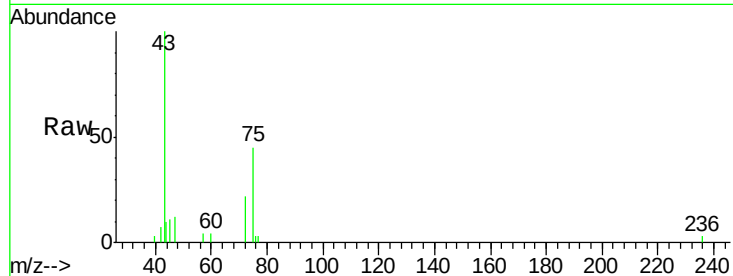
ClientSampled :

Tot Ion: 43 Resp: 35490

Ion Ratio Lower Upper

43 100

72 21.9 12.0 18.0#



#31

Cyclohexane

Concen: 1.822 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.05 min

Lab File: VD058041.D

Acq: 9 Jun 2018 4:02

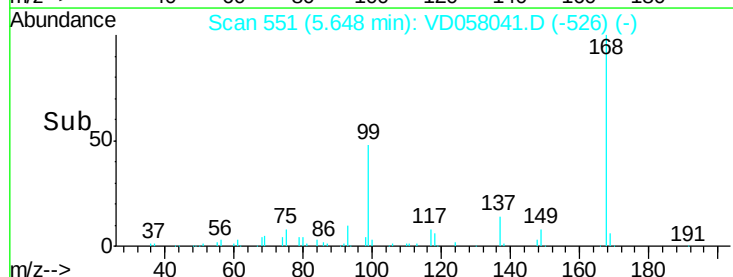
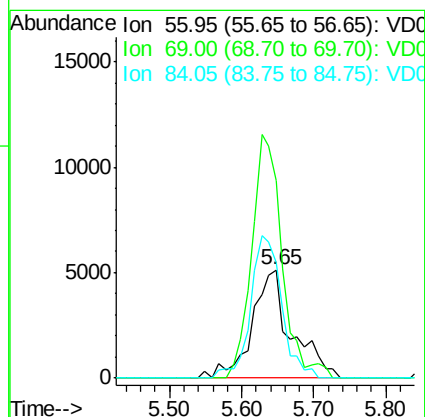
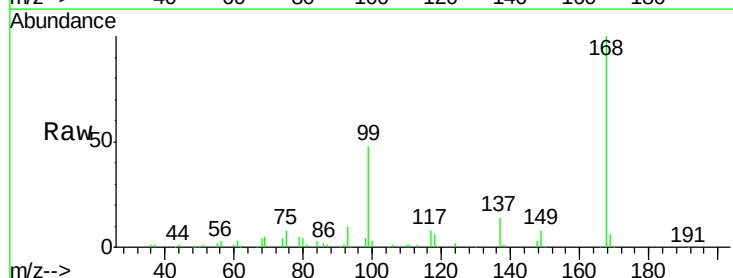
Tgt Ion: 56 Resp: 19534

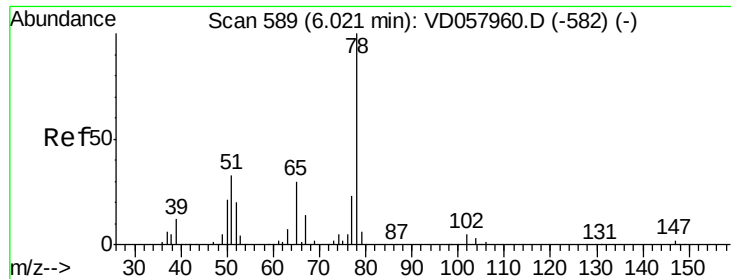
Ion Ratio Lower Upper

56 100

69 182.9 21.5 32.3#

84 106.9 61.0 91.6#

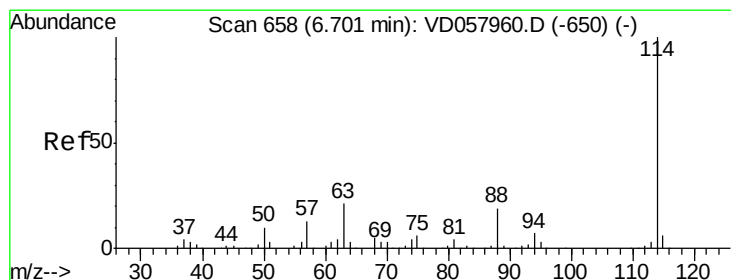
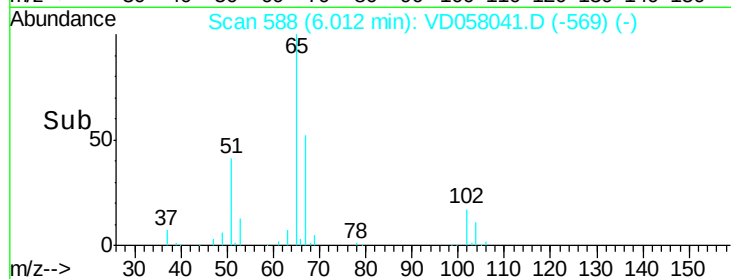
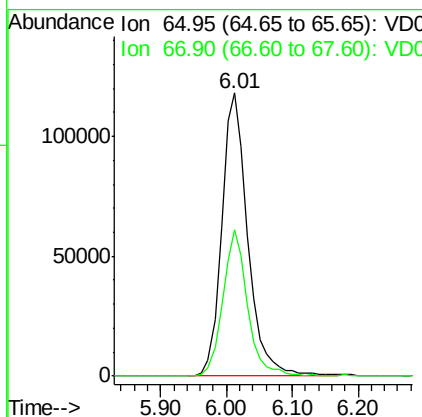
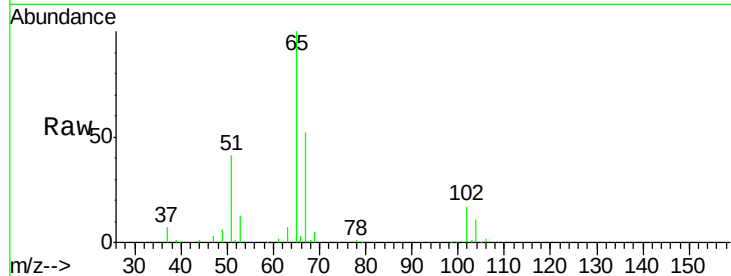




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. -0.01 min
 Lab File: VD058041.D
 Acq: 9 Jun 2018 4:02

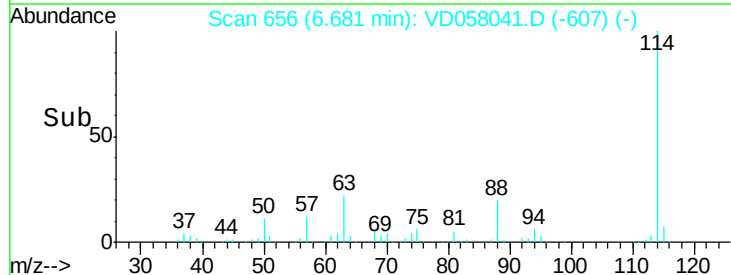
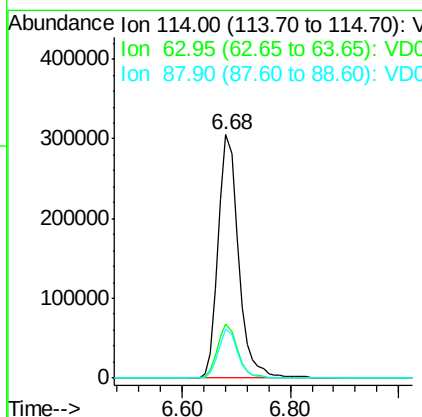
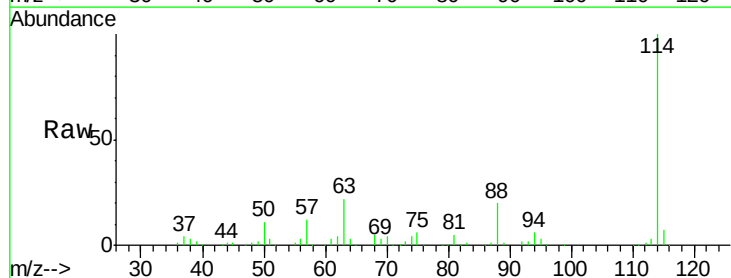
Instrument :
 MSVOA_D
 ClientSampleId :

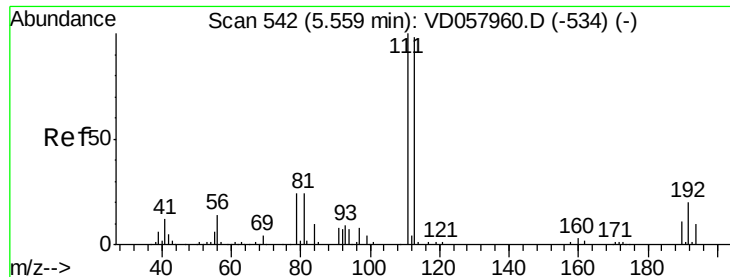
Tot Ion: 65 Resp: 324734
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058041.D
 Acq: 9 Jun 2018 4:02

Tgt Ion: 114 Resp: 792538
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 42.8
 88 20.0 0.0 37.8

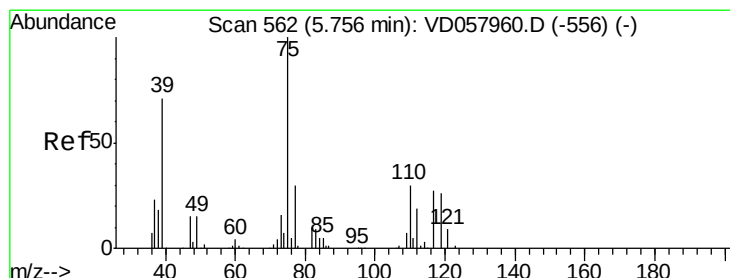
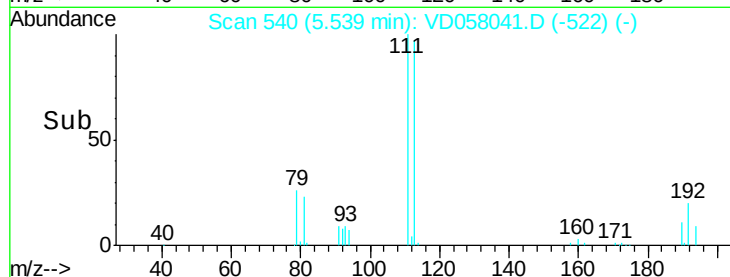
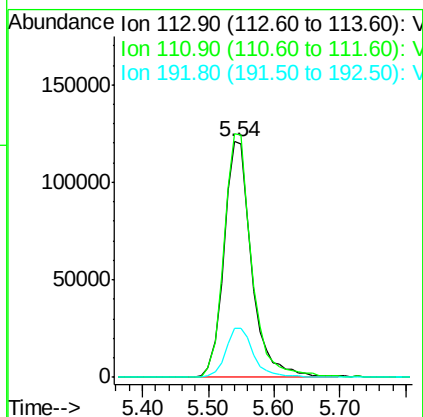
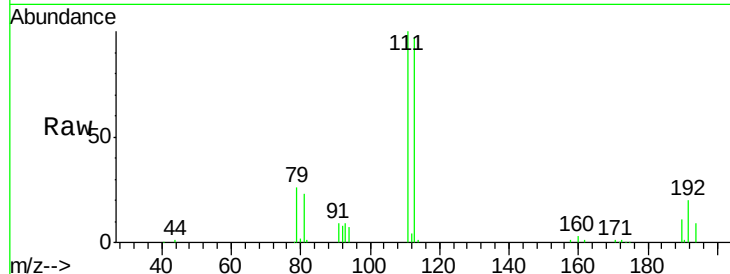




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.54 min Scan# 540
Delta R.T. -0.02 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

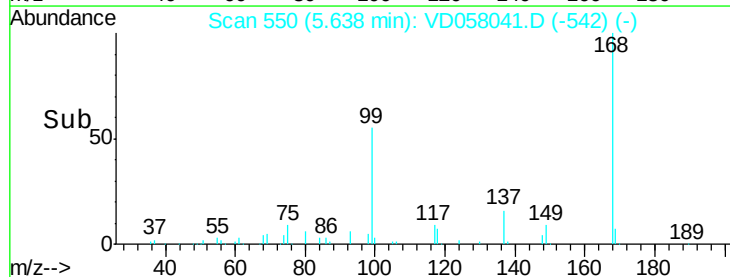
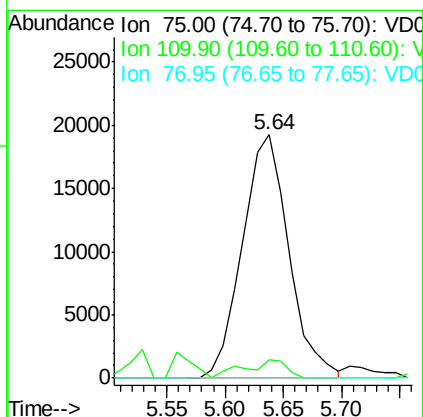
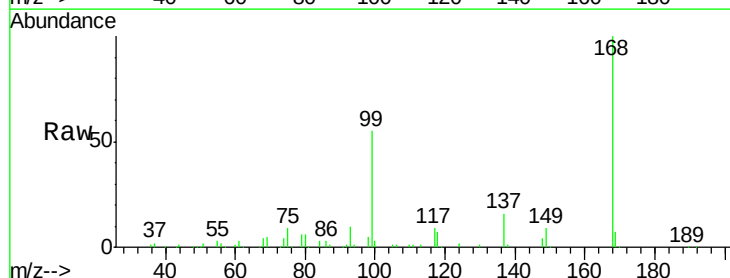
Instrument :
MSVOA_D
ClientSampleId :

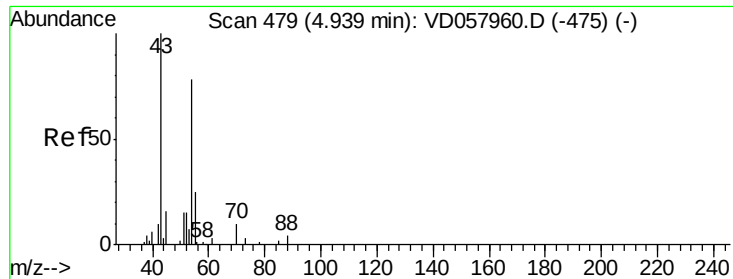
Tot Ion:113 Resp: 356303
Ion Ratio Lower Upper
113 100
111 103.4 81.5 122.3
192 20.9 16.4 24.6



#36
1,1-Dichloropropene
Concen: 6.076 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.12 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Tgt Ion: 75 Resp: 53057
Ion Ratio Lower Upper
75 100
110 7.6 14.8 44.3#
77 0.0 23.9 35.9#

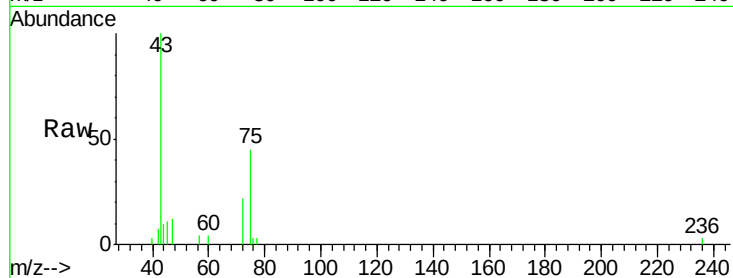




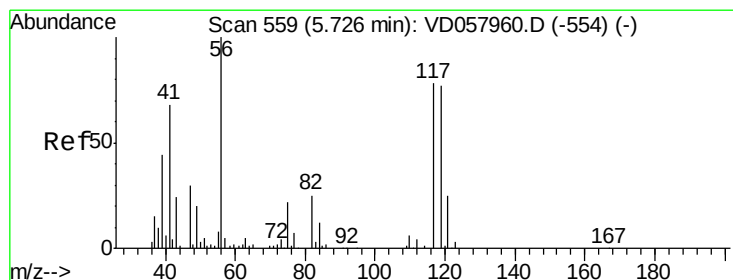
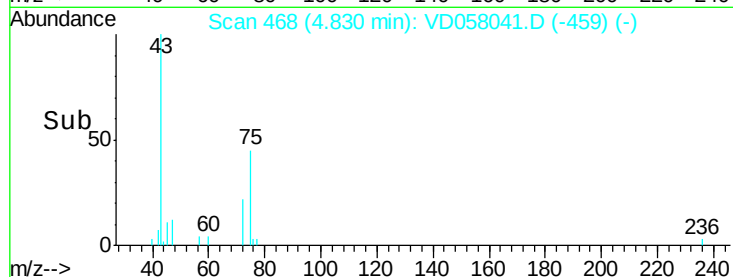
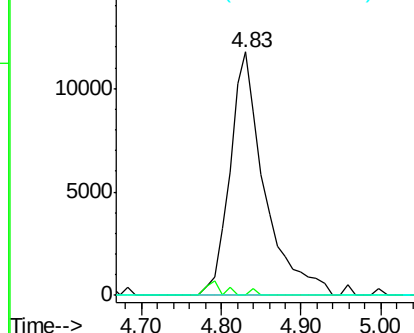
#37
Ethyl Acetate
Concen: 7.449 ug/l
RT: 4.83 min Scan# 468
Delta R.T. -0.11 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 35490
Ion Ratio Lower Upper
43 100
61 0.0 9.9 14.9#
70 0.0 5.7 8.5#

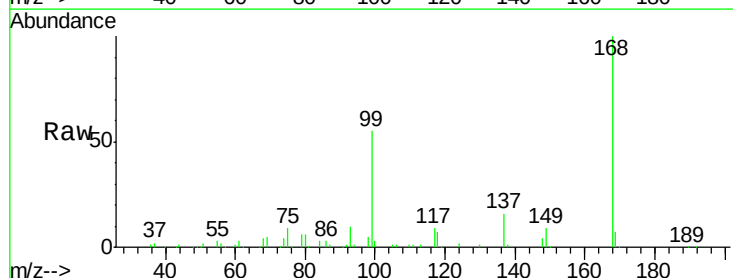


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

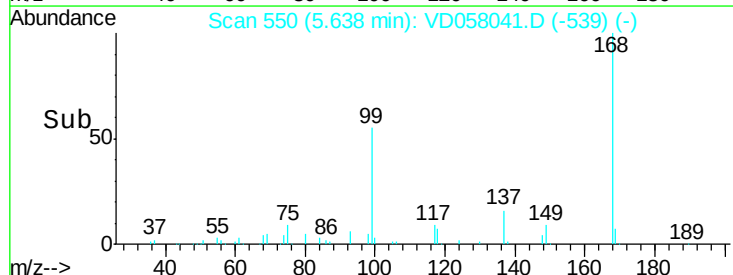
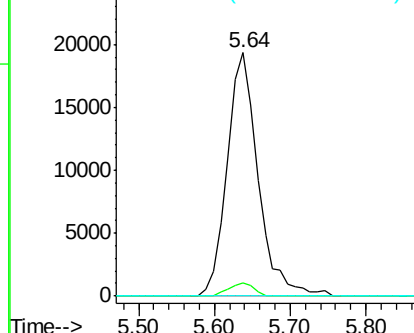


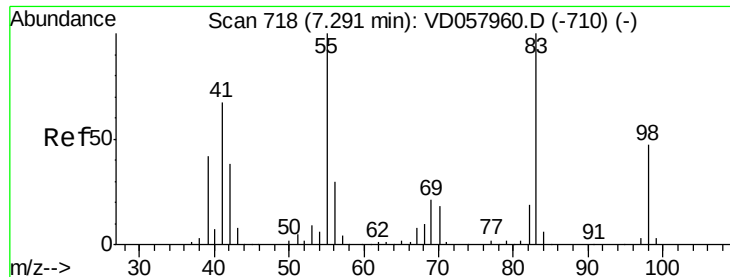
#38
Carbon Tetrachloride
Concen: 6.348 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.09 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Tgt Ion: 117 Resp: 54629
Ion Ratio Lower Upper
117 100
119 5.2 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

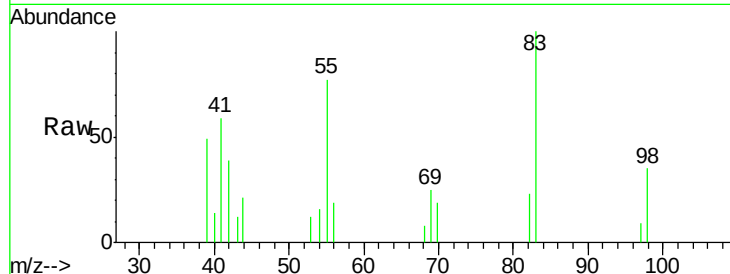




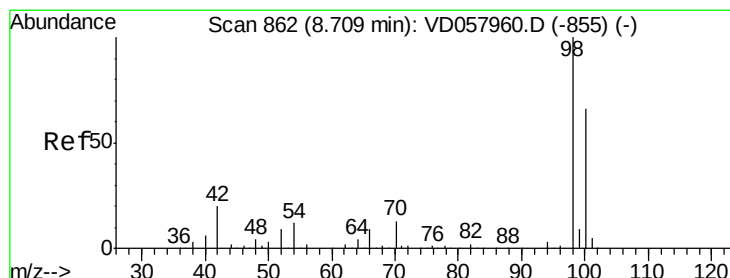
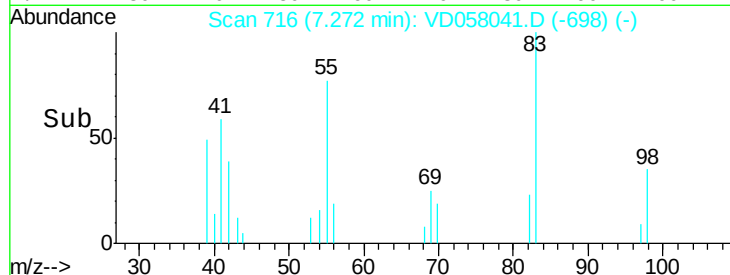
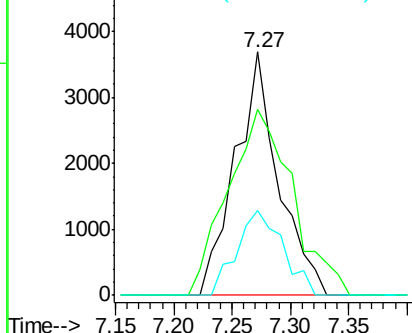
#39
Methylcyclohexane
Concen: 1.096 ug/l
RT: 7.27 min Scan# 716
Delta R.T. -0.02 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 83 Resp: 9484
Ion Ratio Lower Upper
83 100
55 76.6 80.3 120.5#
98 34.7 38.0 57.0#

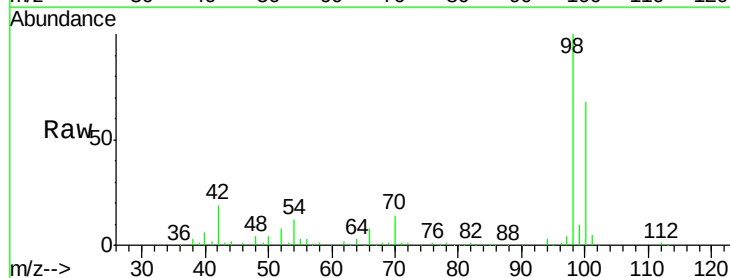


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

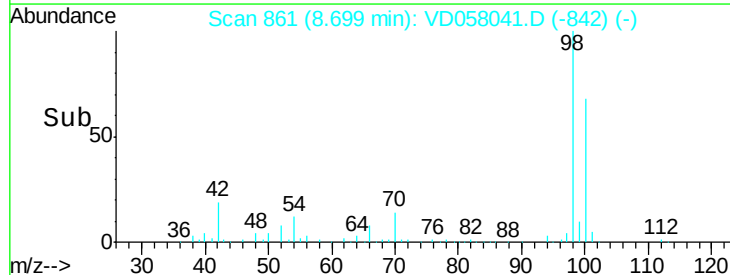
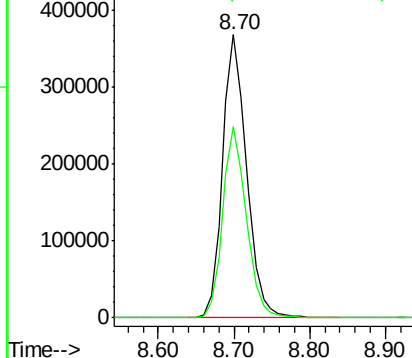


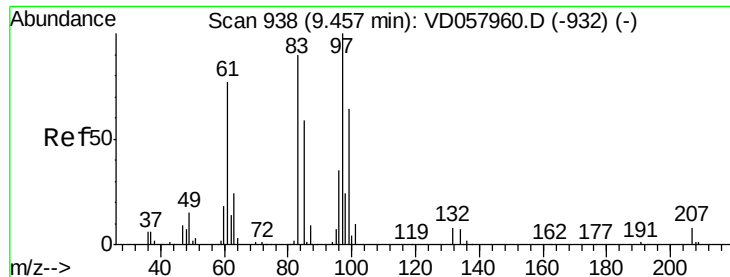
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Tgt Ion: 98 Resp: 812968
Ion Ratio Lower Upper
98 100
100 67.7 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#55

1,1,2-Trichloroethane

Concen: 2.366 ug/l

RT: 9.36 min Scan# 928

Delta R.T. -0.10 min

Lab File: VD058041.D

Acq: 9 Jun 2018 4:02

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 8964

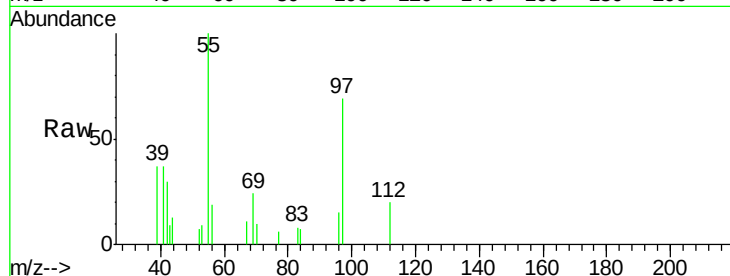
Ion Ratio Lower Upper

97 100

83 11.2 71.8 107.8#

85 0.0 47.2 70.8#

99 0.0 51.4 77.0#

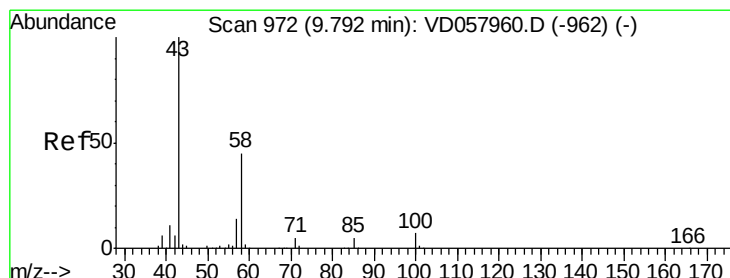
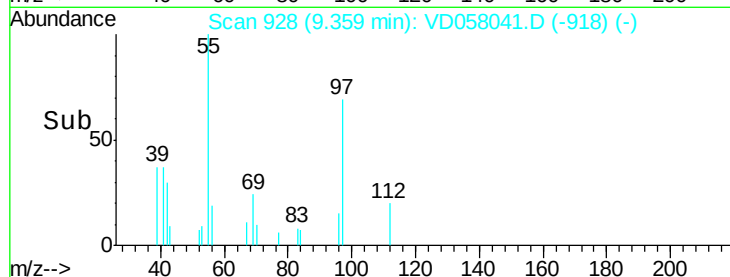
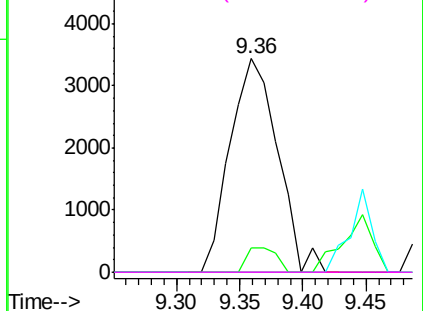


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#59

2-Hexanone

Concen: 1.734 ug/l

RT: 9.74 min Scan# 967

Delta R.T. -0.05 min

Lab File: VD058041.D

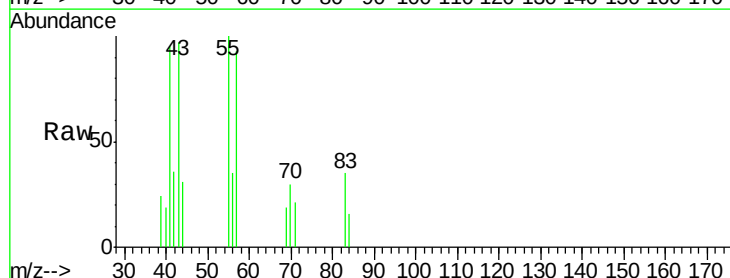
Acq: 9 Jun 2018 4:02

Tgt Ion: 43 Resp: 5086

Ion Ratio Lower Upper

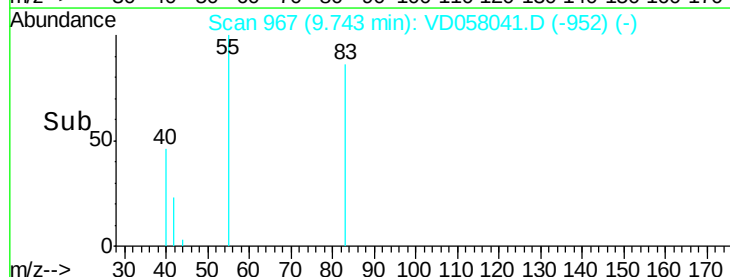
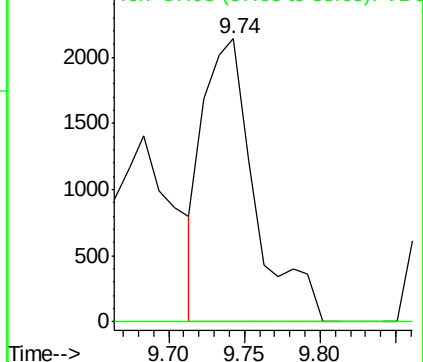
43 100

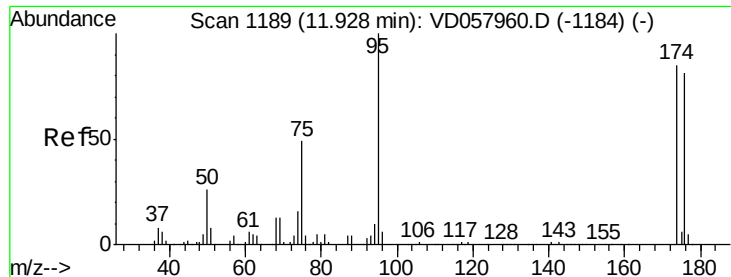
58 0.0 22.5 67.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

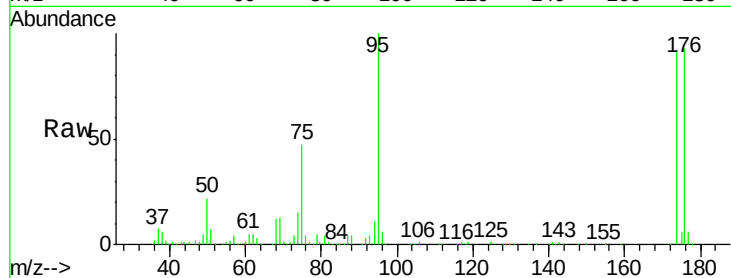




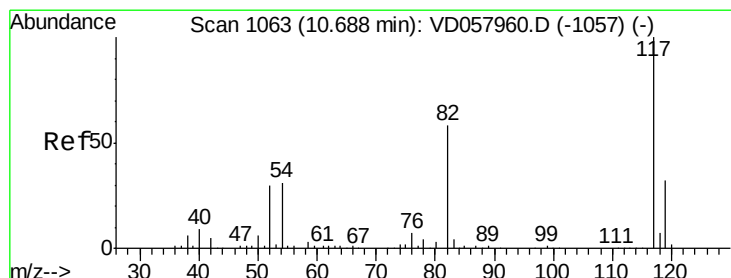
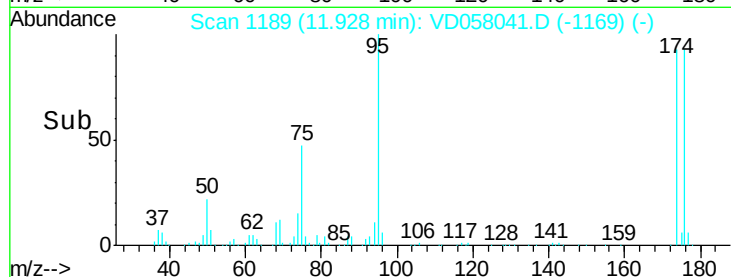
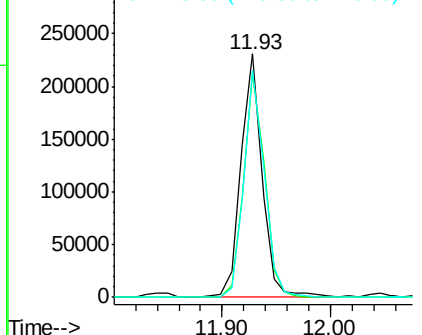
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 313097
Ion Ratio Lower Upper
95 100
174 92.4 0.0 169.4
176 93.3 0.0 162.6

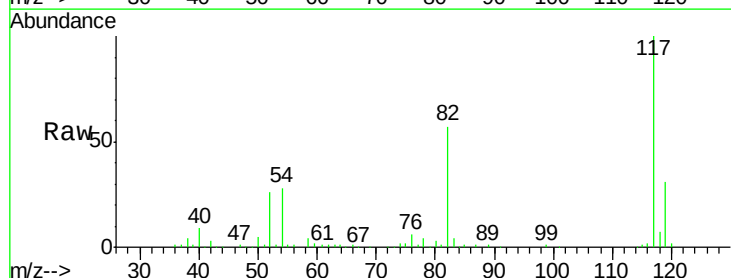


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

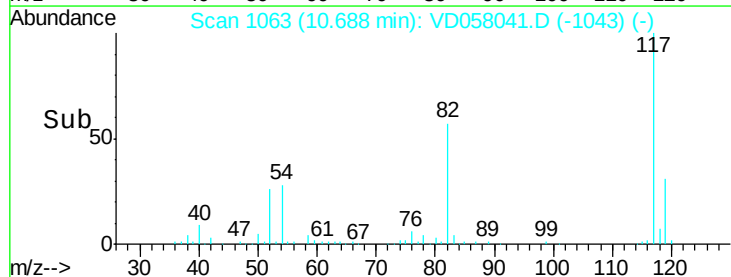
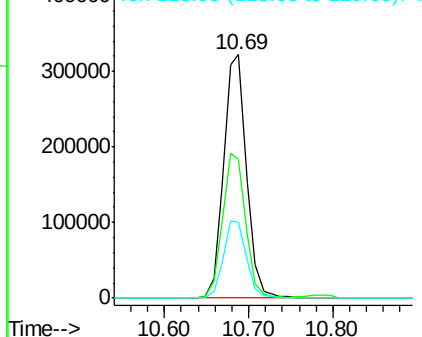


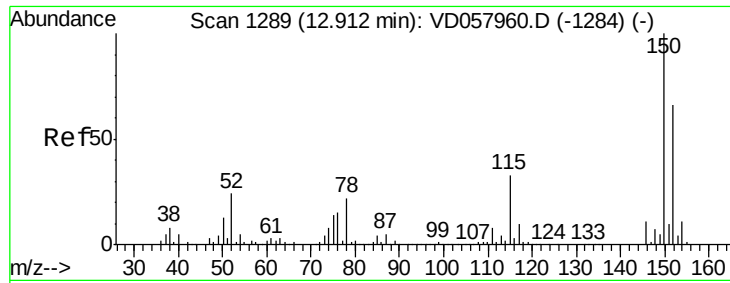
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Tgt Ion: 117 Resp: 604346
Ion Ratio Lower Upper
117 100
82 56.8 46.8 70.2
119 30.9 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

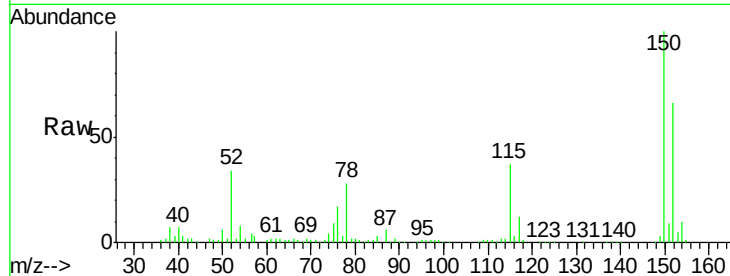




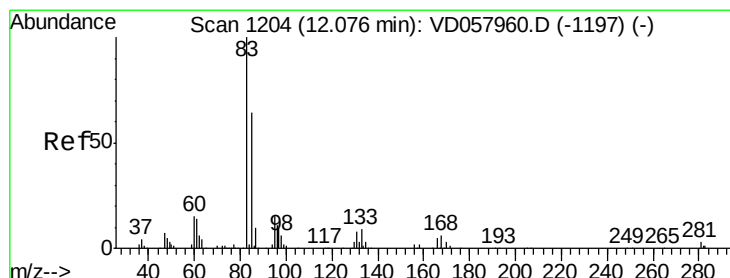
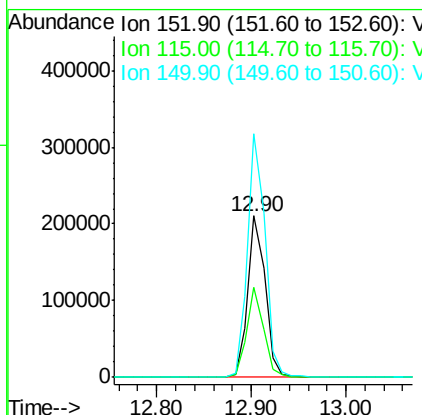
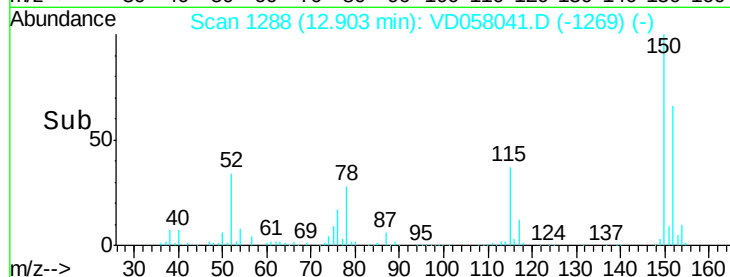
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.90 min Scan# 1288
 Delta R.T. -0.01 min
 Lab File: VD058041.D
 Acq: 9 Jun 2018 4:02

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:152 Resp: 270170
 Ion Ratio Lower Upper
 152 100
 115 55.7 25.6 76.6
 150 150.9 0.0 306.8

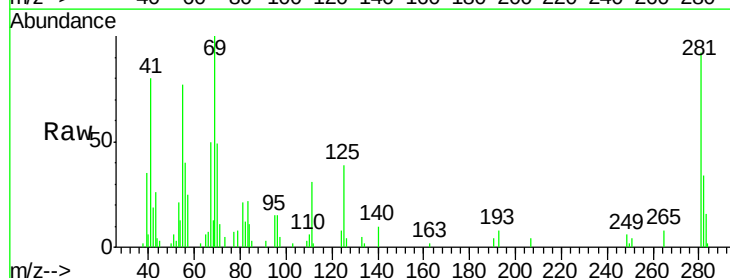


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

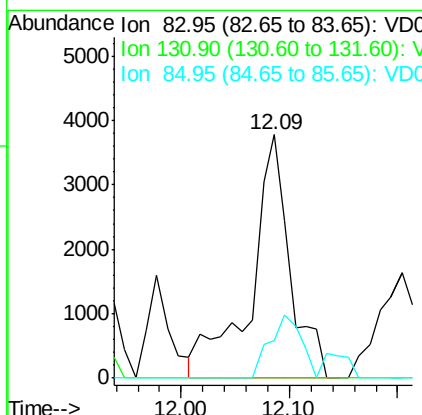
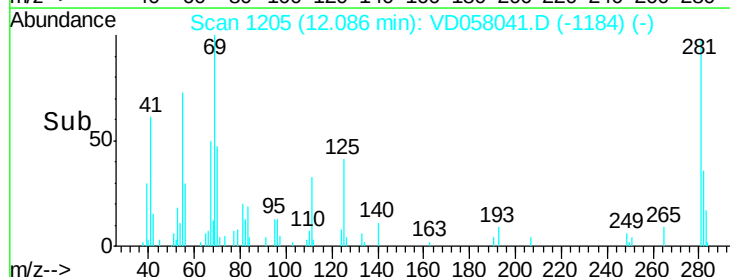


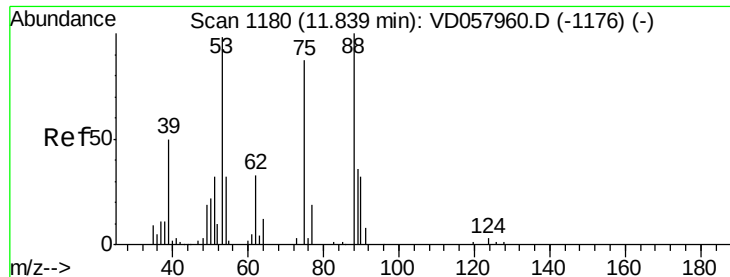
#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.427 ug/l
 RT: 12.09 min Scan# 1205
 Delta R.T. 0.01 min
 Lab File: VD058041.D
 Acq: 9 Jun 2018 4:02

Tgt Ion: 83 Resp: 9470
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.2 12.6#
 85 15.4 31.9 95.5#



Abundance Ion 82.95 (82.65 to 83.65): VDC
 Ion 130.90 (130.60 to 131.60): V
 Ion 84.95 (84.65 to 85.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 148.143 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058041.D

Acq: 9 Jun 2018 4:02

Instrument :

MSVOA_D

ClientSampleId :

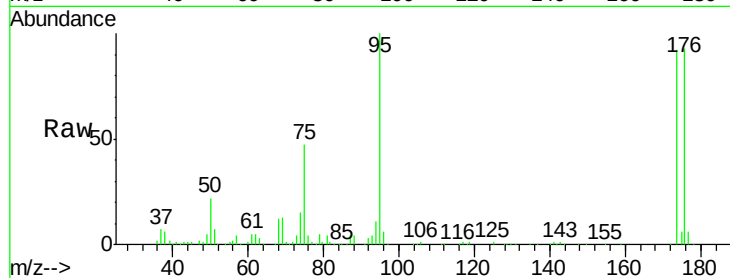
Tot Ion: 75 Resp: 148912

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

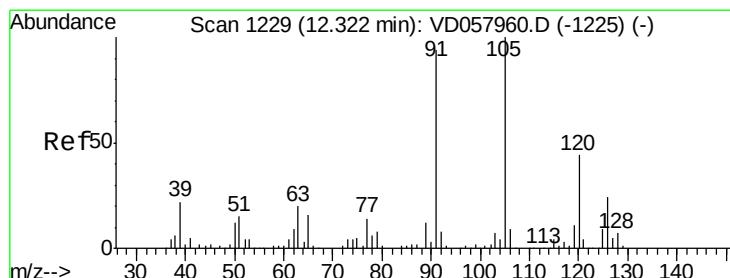
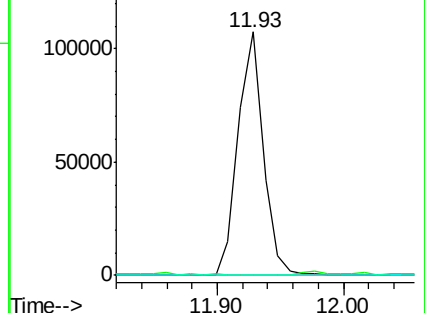
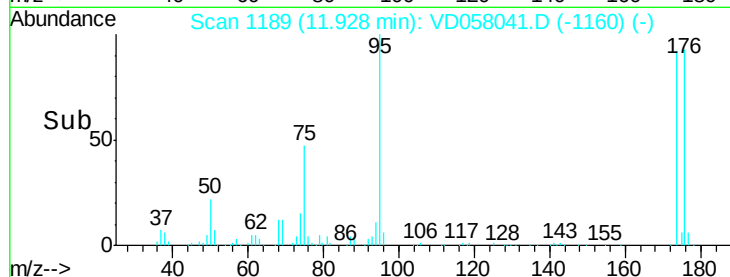
89 0.0 33.3 49.9#



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: 12.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058041.D

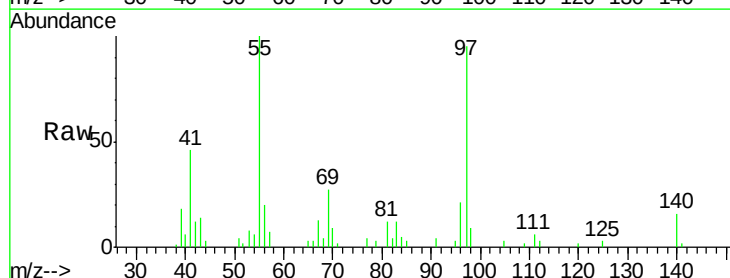
Acq: 9 Jun 2018 4:02

Tgt Ion: 91 Resp: 2806

Ion Ratio Lower Upper

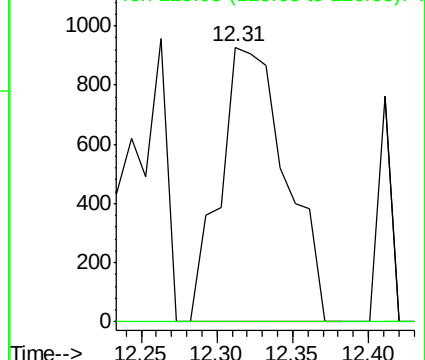
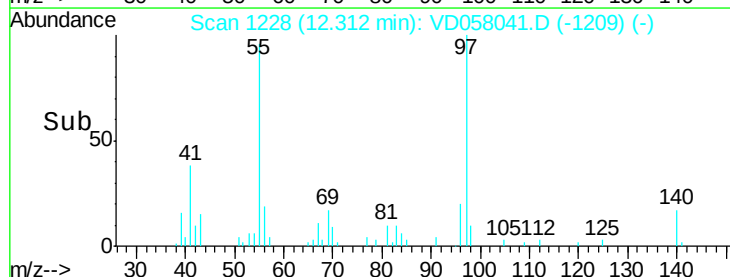
91 100

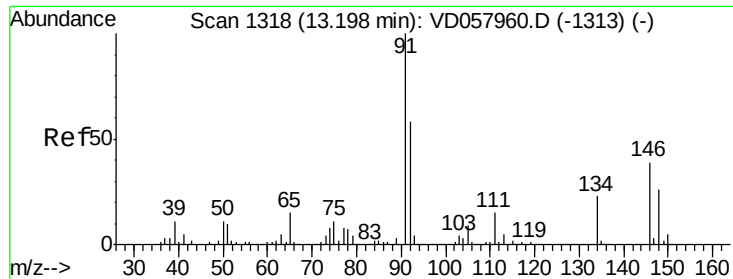
126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

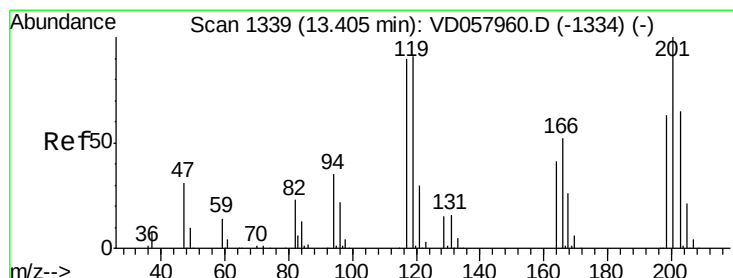
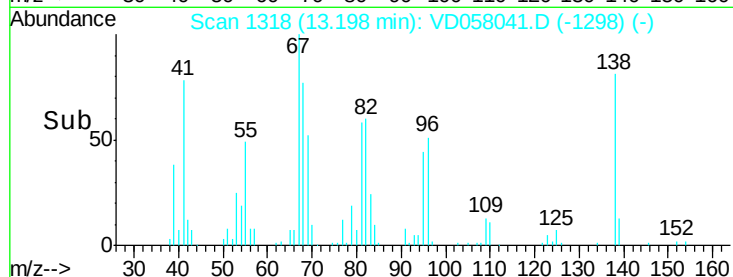
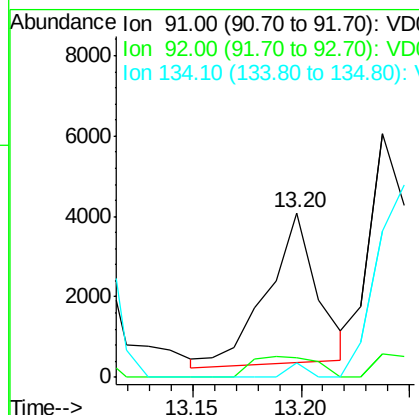
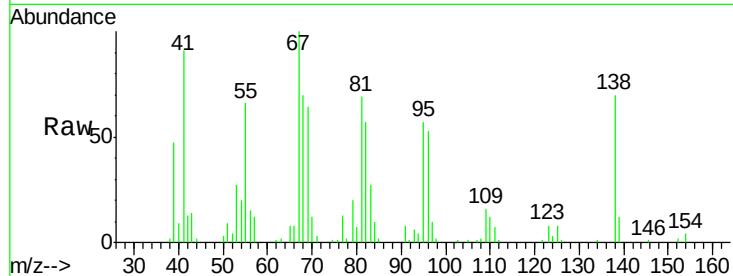




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.20 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

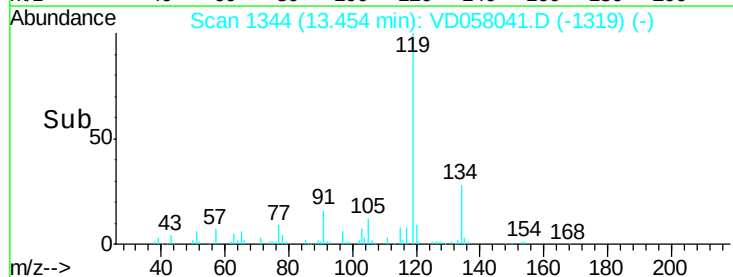
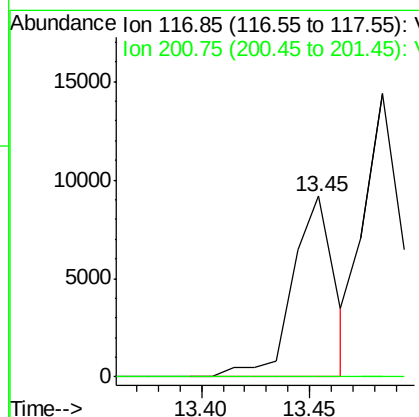
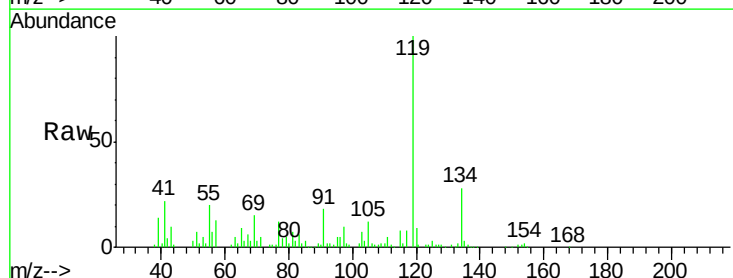
Instrument :
MSVOA_D
ClientSampled :

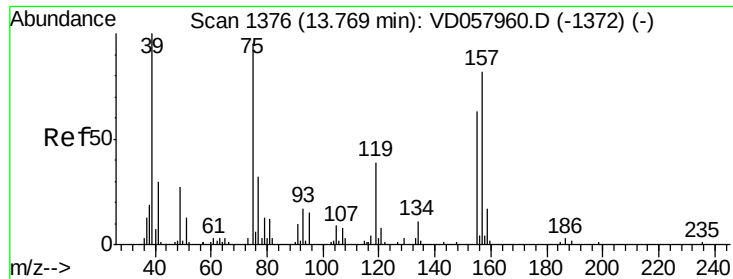
Tot Ion: 91 Resp: 6044
Ion Ratio Lower Upper
91 100
92 11.6 29.2 87.6#
134 8.8 11.3 33.9#



#90
Hexachloroethane
Concen: 3.150 ug/l
RT: 13.45 min Scan# 1344
Delta R.T. 0.05 min
Lab File: VD058041.D
Acq: 9 Jun 2018 4:02

Tgt Ion: 117 Resp: 12324
Ion Ratio Lower Upper
117 100
201 0.0 55.4 166.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.571 ug/l

RT: 13.74 min Scan# 1373

Delta R.T. -0.03 min

Lab File: VD058041.D

Acq: 9 Jun 2018 4:02

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 1548

Ion Ratio Lower Upper

75 100

155 0.0 33.4 100.1#

157 0.0 42.9 128.5#

