

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091118\
 Data File : VW005284.D
 Acq On : 11 Sep 2018 18:52
 Operator : SY/AP
 Sample : J4776-03
 Misc : 6.61G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

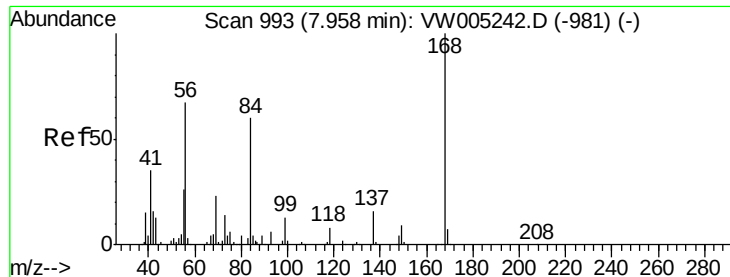
Quant Time: Sep 12 14:13:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 03:48:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	441612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	697812	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	689856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	355268	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	166430	50.53	ug/l	0.00
Spiked Amount						
			Recovery	=	101.06%	
35) Dibromofluoromethane	7.89	113	151986	41.58	ug/l	0.00
Spiked Amount						
			Recovery	=	83.16%	
50) Toluene-d8	10.33	98	711625	38.53	ug/l	0.00
Spiked Amount						
			Recovery	=	77.06%	
62) 4-Bromofluorobenzene	12.62	95	270642	40.06	ug/l	0.00
Spiked Amount						
			Recovery	=	80.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	1006	Below Cal	#	80
10) Methyl Iodide	4.28	142	1065	3.54	ug/l #	80
11) Tert butyl alcohol	5.14	59	5172	19.15	ug/l #	75
16) Acetone	4.13	43	46136	75.46	ug/l	99
20) Methylene Chloride	4.93	84	28081	3.09	ug/l	97
25) 2-Butanone	7.14	43	12537	13.00	ug/l #	74
26) 2,2-Dichloropropane	7.14	77	13797	2.40	ug/l #	51
29) Tetrahydrofuran	7.54	42	666	1.02	ug/l #	77
30) Chloroform	7.68	83	28467	4.28	ug/l	97
31) Cyclohexane	7.96	56	8003	1.14	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	31140	4.87	ug/l #	48
37) Ethyl Acetate	7.14	43	12537	5.16	ug/l #	10
38) Carbon Tetrachloride	7.96	117	38781	6.48	ug/l #	18
74) N-amyl acetate	12.26	43	16120	3.38	ug/l #	67
76) 1,2,3-Trichloropropane	12.62	75	125108	45.78	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.95	105	71992	3.37	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	125108	107.37	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.26	105	275296	12.82	ug/l	99
86) p-Isopropyltoluene	13.51	119	28389	1.19	ug/l	98
89) n-Butylbenzene	13.83	91	30699	1.37	ug/l #	74
90) Hexachloroethane	14.11	117	7154	1.88	ug/l #	8
95) Naphthalene	15.38	128	38688	3.09	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005284.D

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Instrument :

MSVOA_W

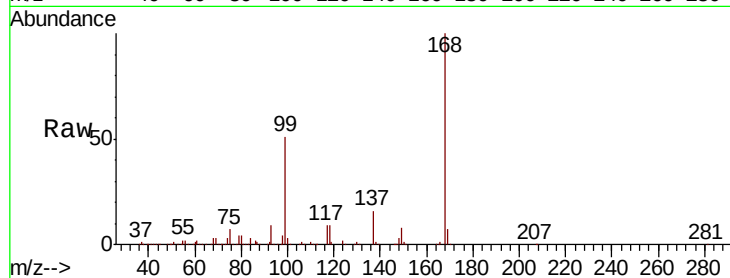
ClientSampled :

Tot Ion:168 Resp: 441612

Ion Ratio Lower Upper

168 100

99 51.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

200000

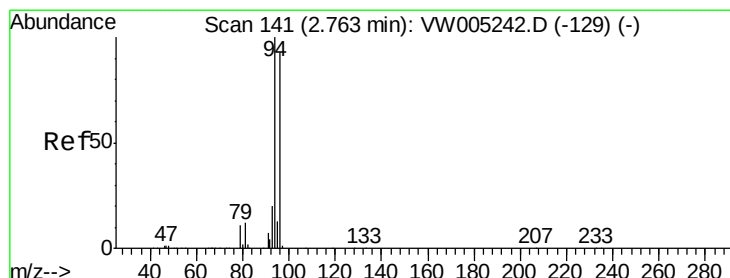
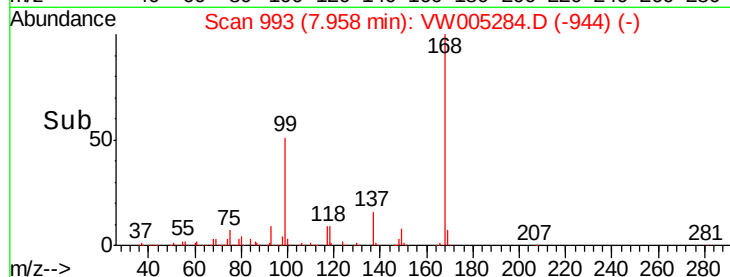
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 144

Delta R.T. 0.02 min

Lab File: VW005284.D

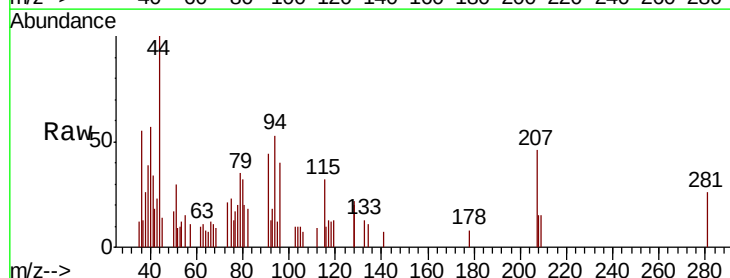
Acq: 11 Sep 2018 18:52

Tgt Ion: 94 Resp: 1006

Ion Ratio Lower Upper

94 100

96 73.2 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.78

400

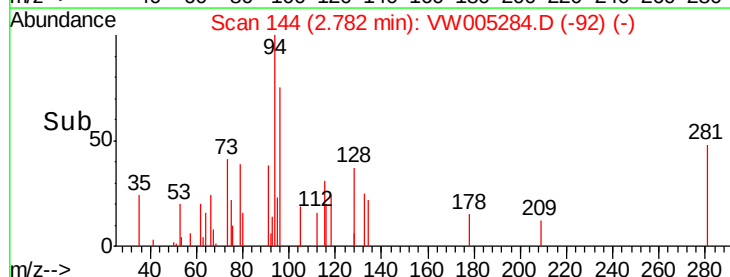
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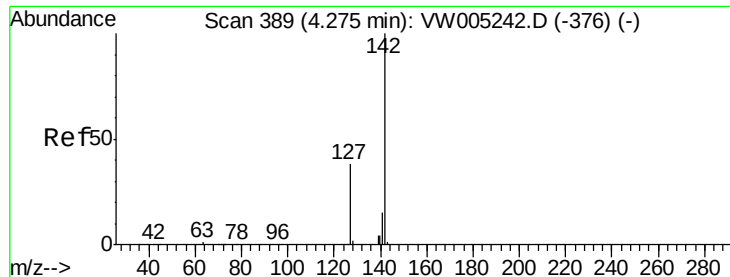
200

100

0

Time-->

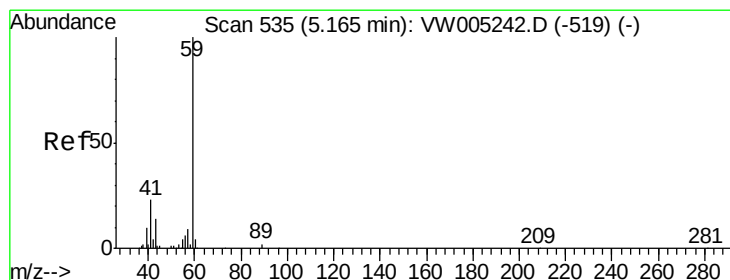
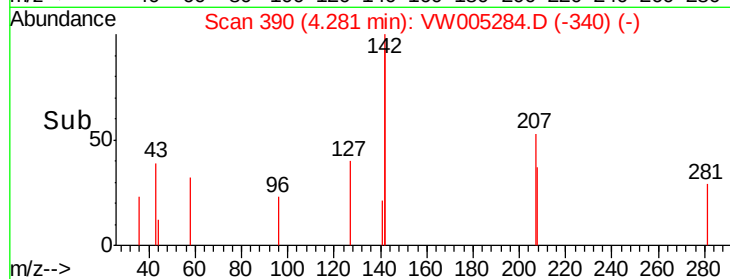
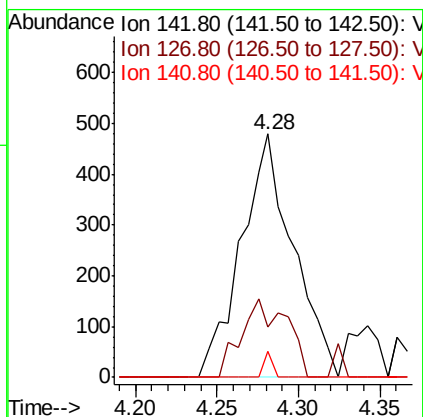
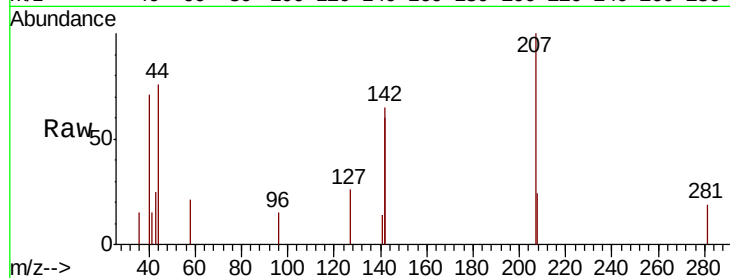




#10
Methyl Iodide
Concen: 3.54 ug/l
RT: 4.28 min Scan# 390
Delta R.T. 0.01 min
Lab File: VW005284.D
Acq: 11 Sep 2018 18:52

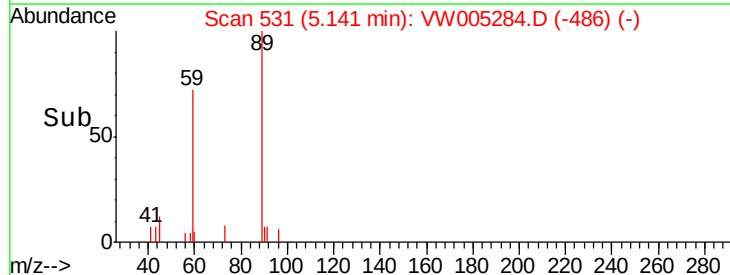
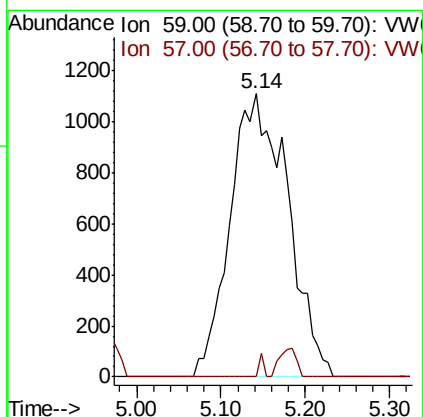
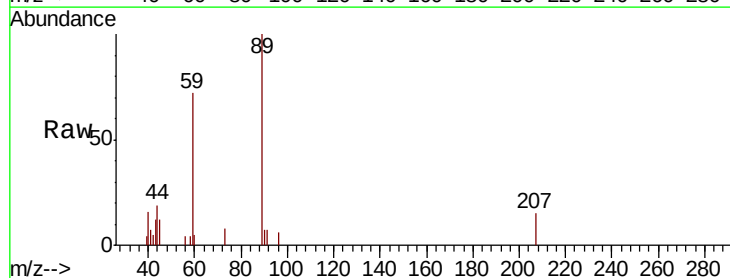
Instrument :
MSVOA_W
ClientSampled :

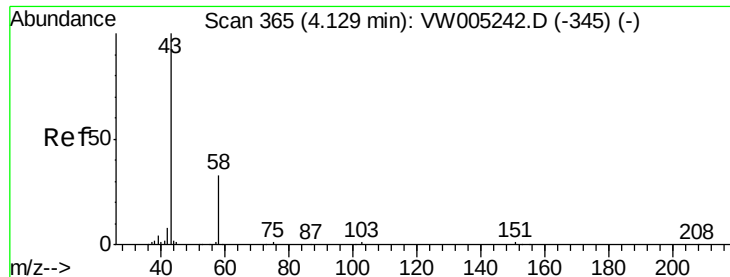
Tot Ion:142 Resp: 1065
Ion Ratio Lower Upper
142 100
127 28.1 30.3 45.5#
141 1.8 11.4 17.0#



#11
Tert butyl alcohol
Concen: 19.15 ug/l
RT: 5.14 min Scan# 531
Delta R.T. -0.02 min
Lab File: VW005284.D
Acq: 11 Sep 2018 18:52

Tgt Ion: 59 Resp: 5172
Ion Ratio Lower Upper
59 100
57 0.7 8.1 12.1#





#16

Acetone

Concen: 75.46 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Instrument :

MSVOA_W

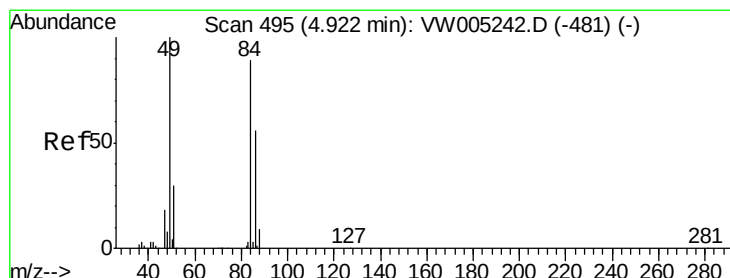
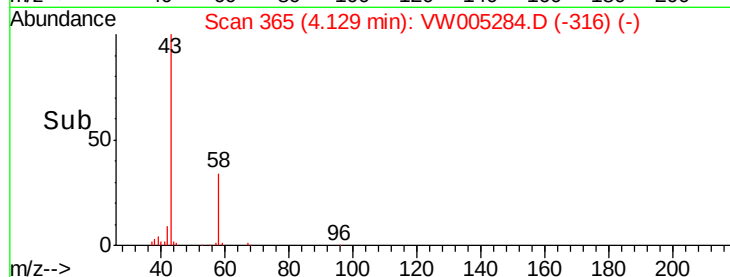
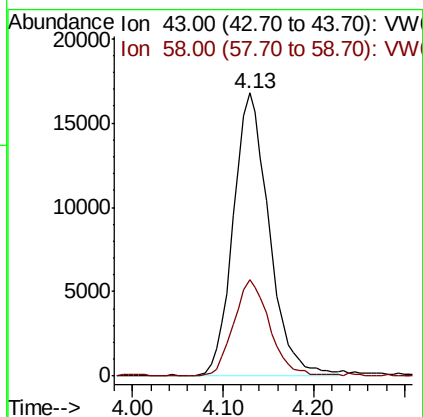
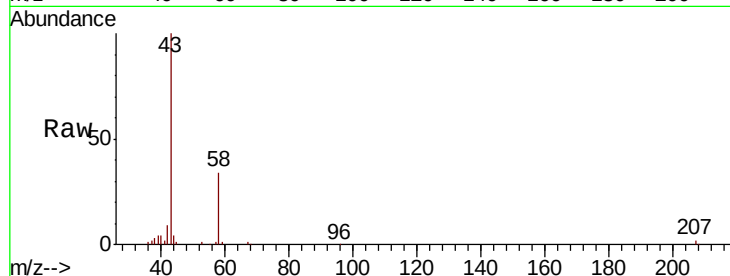
ClientSampleId :

Tot Ion: 43 Resp: 46136

Ion Ratio Lower Upper

43 100

58 34.0 26.7 40.1



#20

Methylene Chloride

Concen: 3.09 ug/l

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Tgt Ion: 84 Resp: 28081

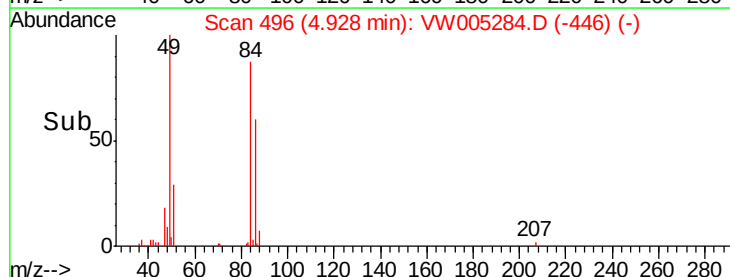
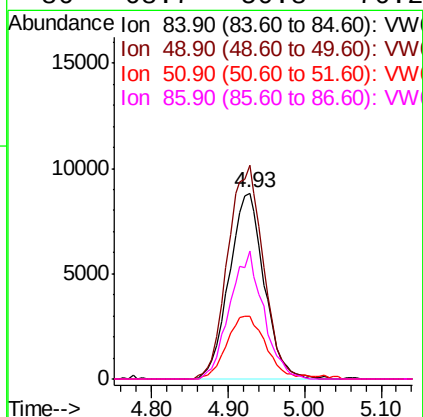
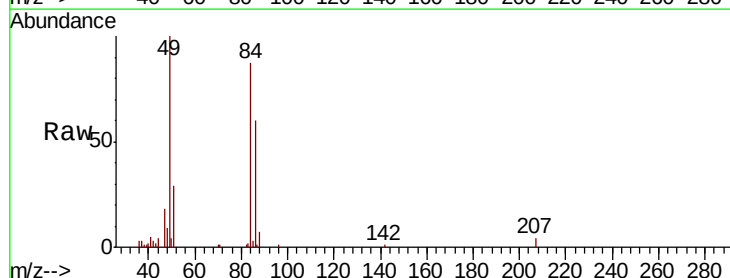
Ion Ratio Lower Upper

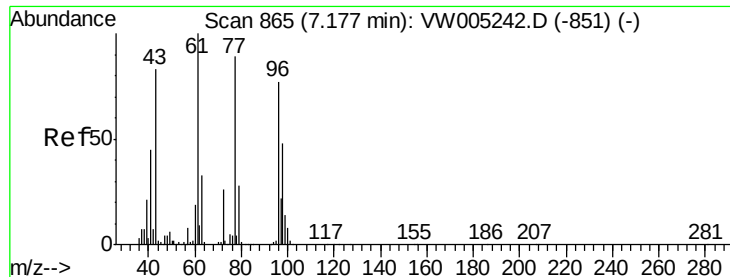
84 100

49 115.0 90.3 135.5

51 33.6 26.9 40.3

86 68.7 50.8 76.2





#25

2-Butanone

Concen: 13.00 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.04 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Instrument :

MSVOA_W

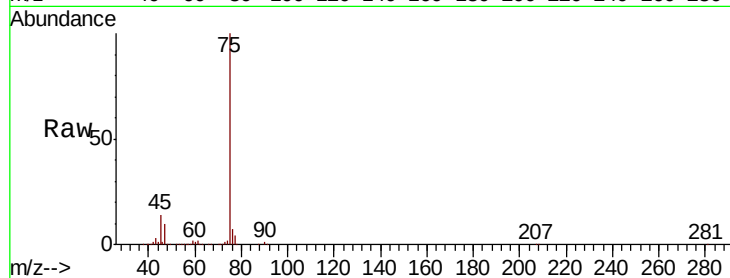
ClientSampleId :

Tot Ion: 43 Resp: 12537

Ion Ratio Lower Upper

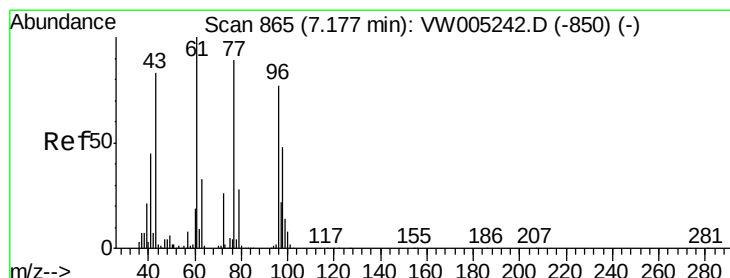
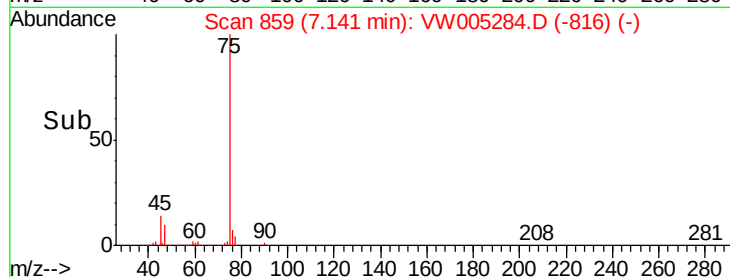
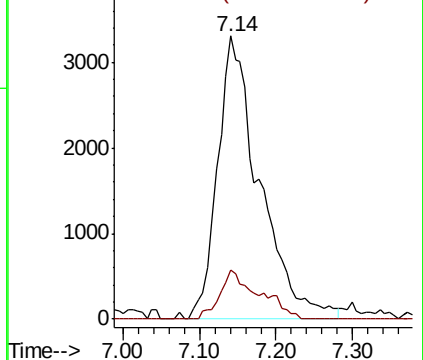
43 100

72 17.2 25.0 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 2.40 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.04 min

Lab File: VW005284.D

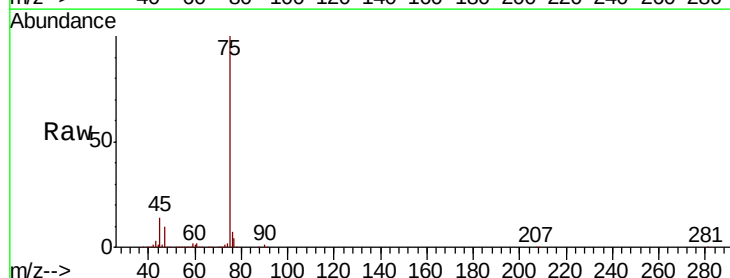
Acq: 11 Sep 2018 18:52

Tgt Ion: 77 Resp: 13797

Ion Ratio Lower Upper

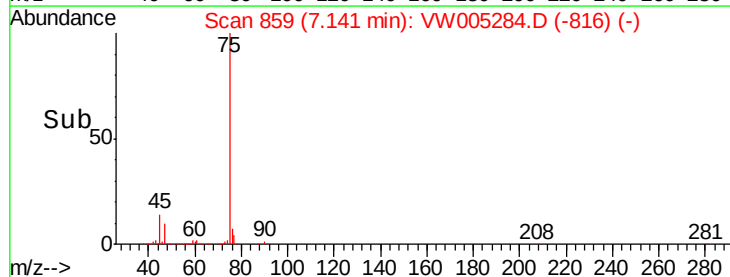
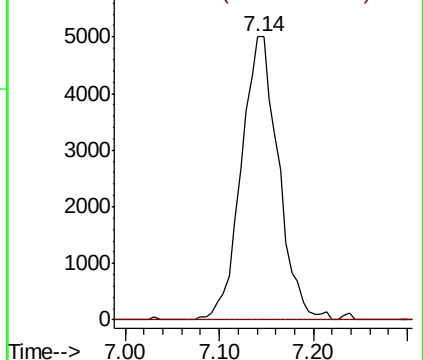
77 100

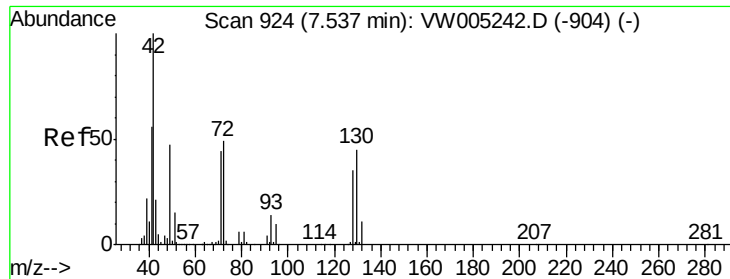
97 0.0 12.2 36.6#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

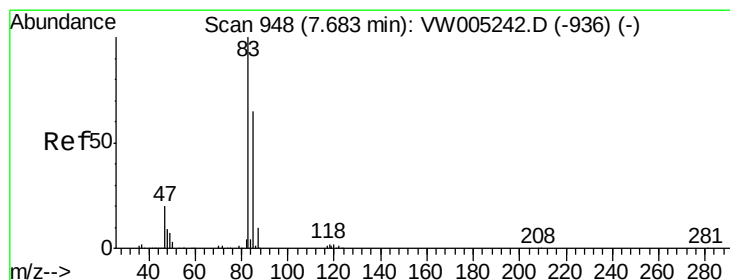
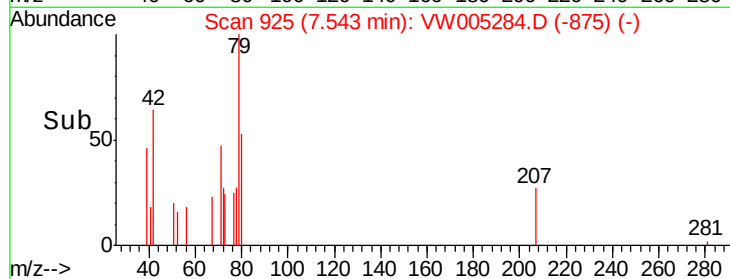
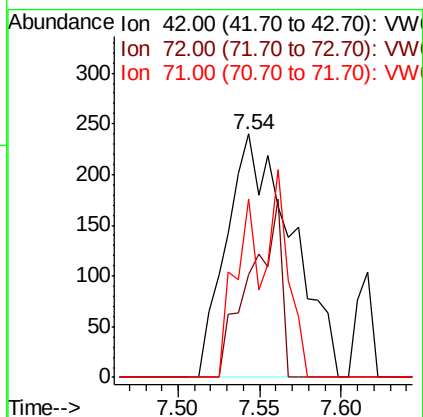
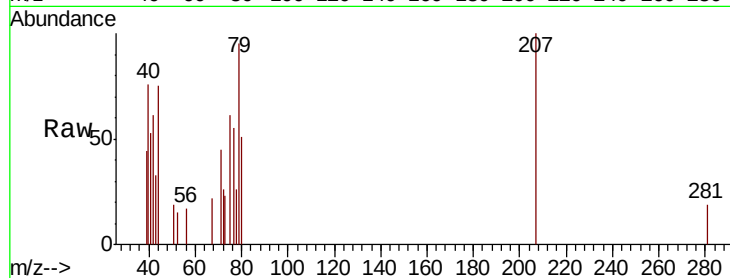




#29
Tetrahydrofuran
Concen: 1.02 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW005284.D
Acq: 11 Sep 2018 18:52

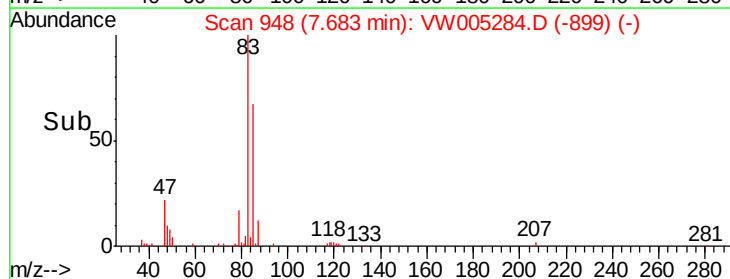
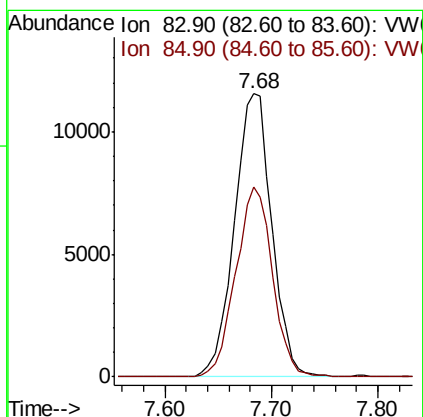
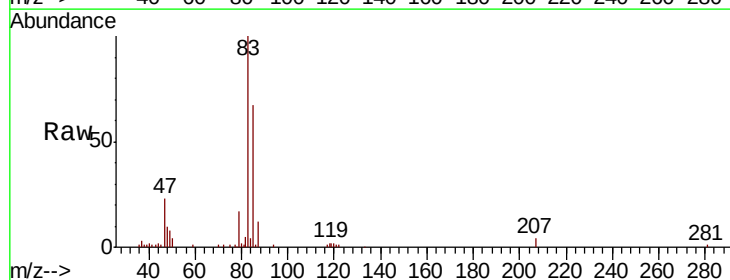
Instrument :
MSVOA_W
ClientSampleId :

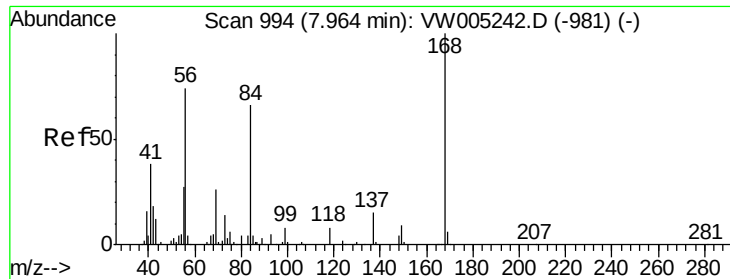
Tot Ion: 42 Resp: 666
Ion Ratio Lower Upper
42 100
72 34.8 37.5 56.3#
71 25.4 34.8 52.2#



#30
Chloroform
Concen: 4.28 ug/l
RT: 7.68 min Scan# 948
Delta R.T. 0.00 min
Lab File: VW005284.D
Acq: 11 Sep 2018 18:52

Tgt Ion: 83 Resp: 28467
Ion Ratio Lower Upper
83 100
85 67.3 51.7 77.5

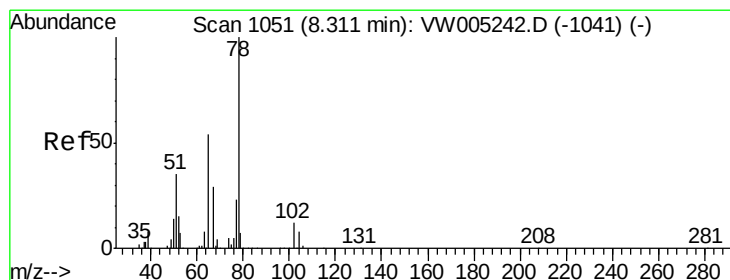
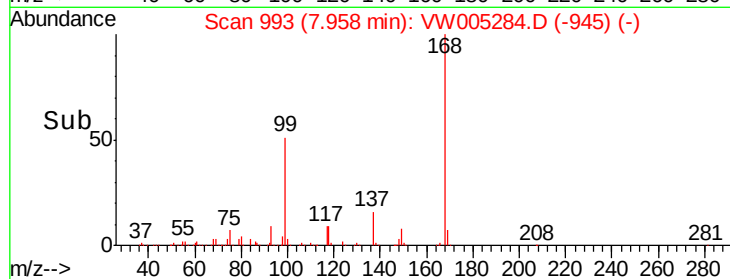
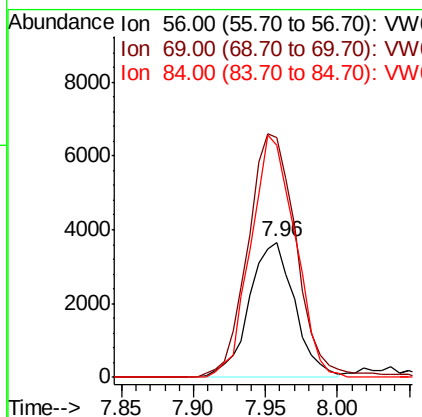
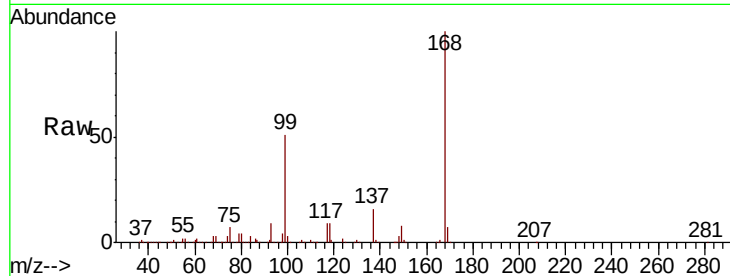




#31
Cyclohexane
Concen: 1.14 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW005284.D
Acq: 11 Sep 2018 18:52

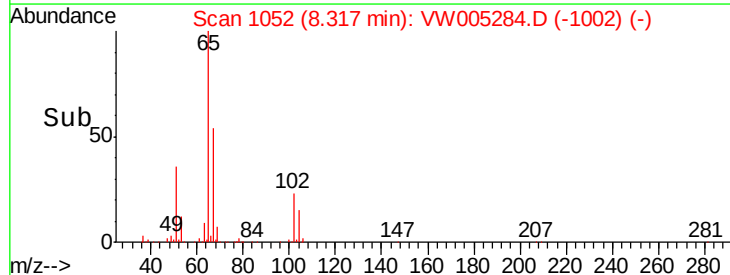
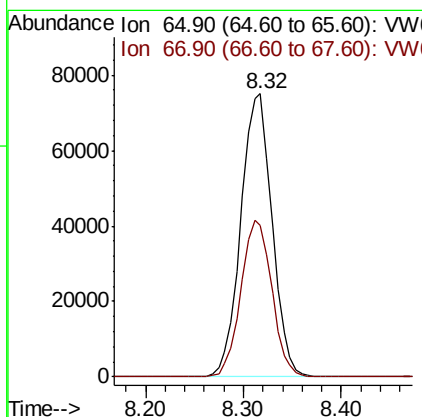
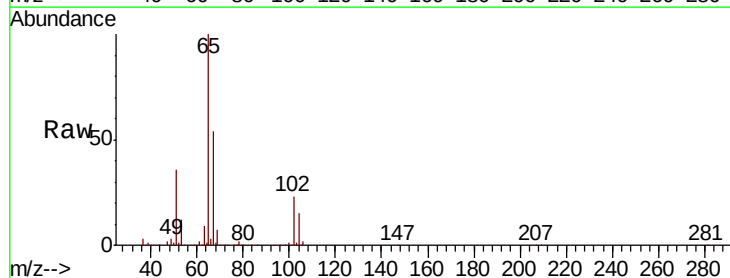
Instrument :
MSVOA_W
ClientSampled :

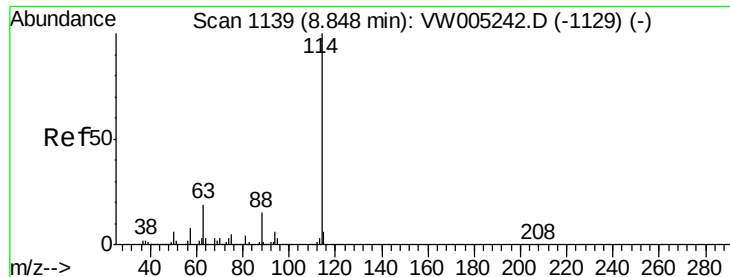
Tot Ion: 56 Resp: 8003
Ion Ratio Lower Upper
56 100
69 177.5 27.8 41.8#
84 172.1 72.1 108.1#



#33
1,2-Dichloroethane-d4
Concen: 50.53 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VW005284.D
Acq: 11 Sep 2018 18:52

Tgt Ion: 65 Resp: 166430
Ion Ratio Lower Upper
65 100
67 54.8 0.0 112.2

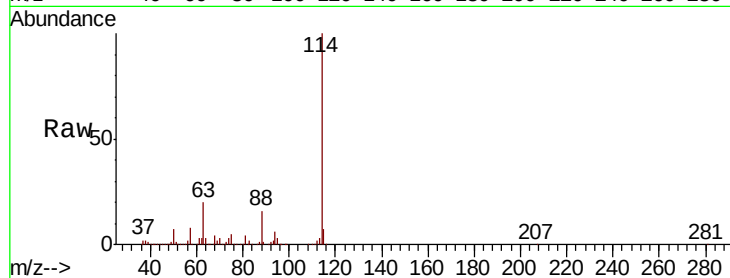




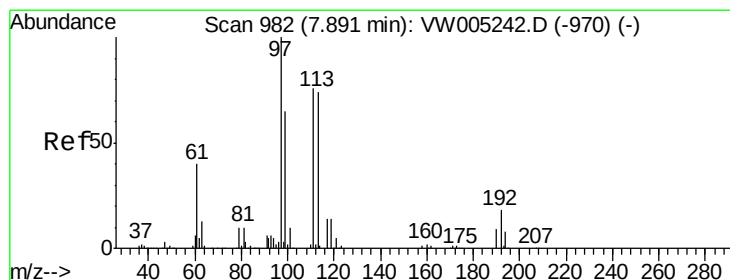
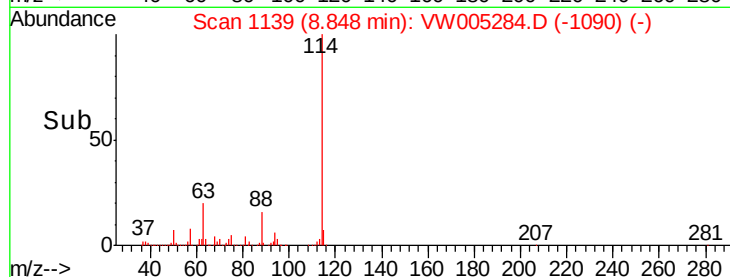
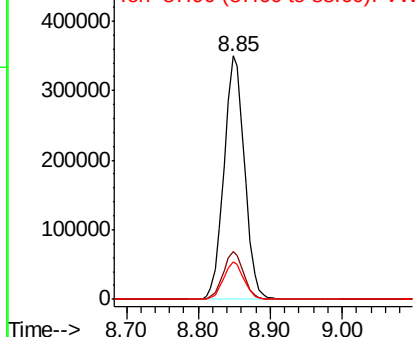
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	37.0
88	15.6	0.0	30.4

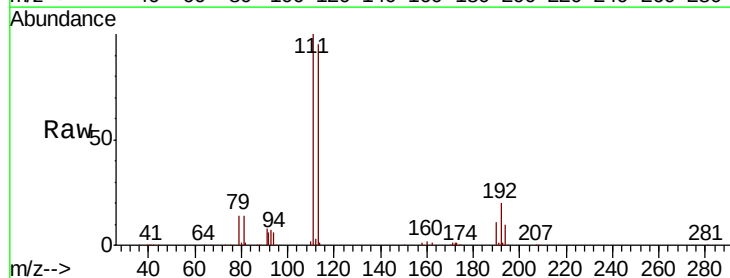


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

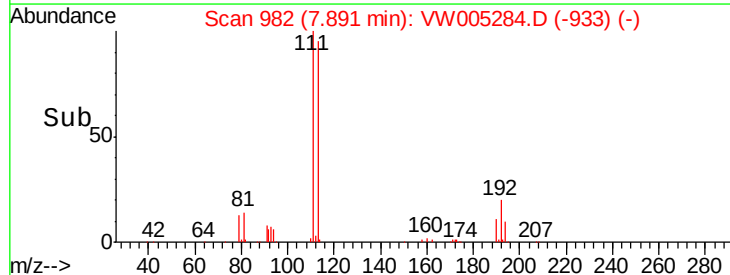
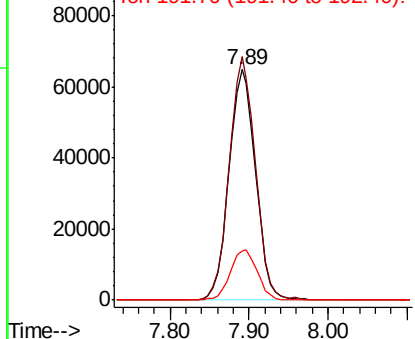


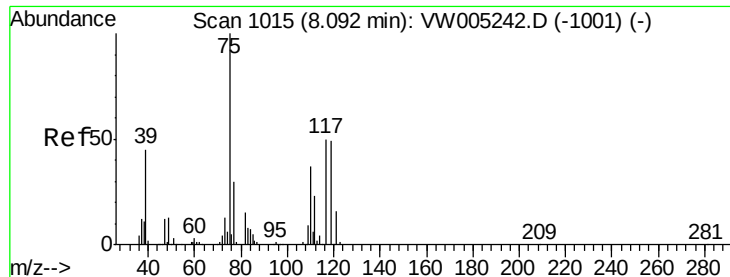
#35
 Dibromofluoromethane
 Concen: 41.58 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.6	121.0
192	22.1	18.3	27.5



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

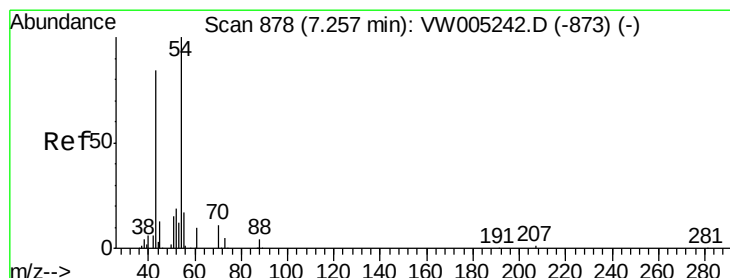
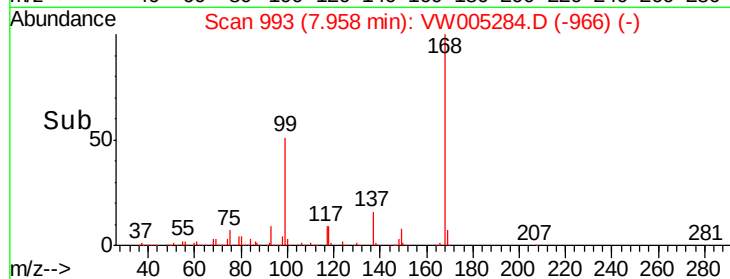
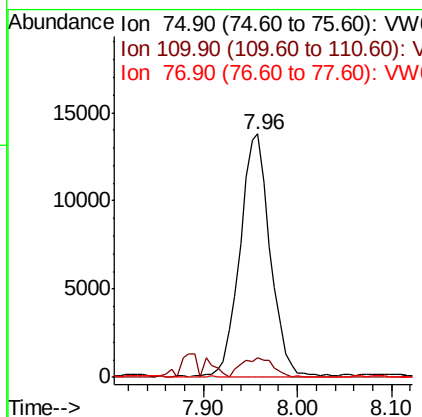
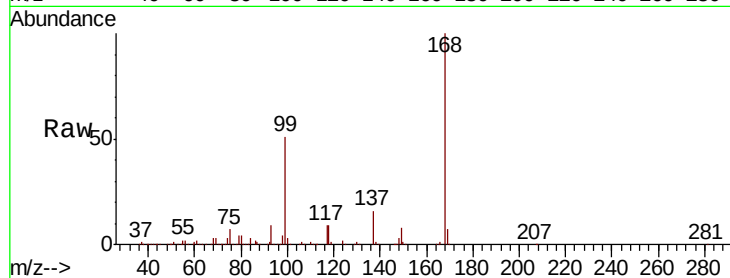




#36
 1,1-Dichloropropene
 Concen: 4.87 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

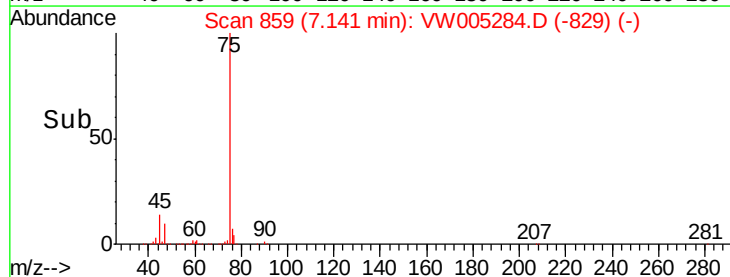
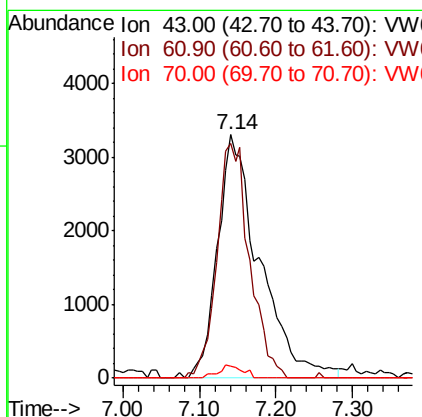
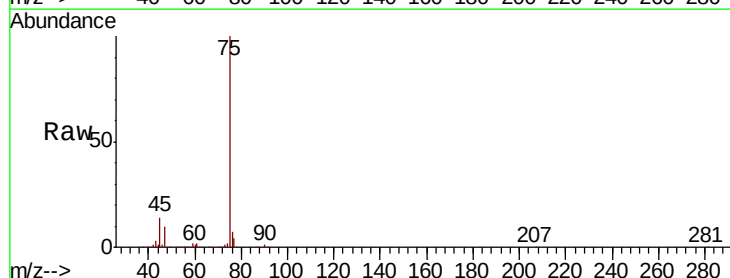
Instrument :
 MSVOA_W
 ClientSampleId :

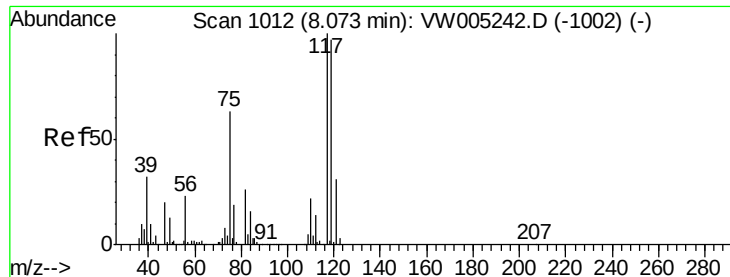
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.8	56.4#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 5.16 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.12 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

Tgt Ion	Ratio	Lower	Upper
43	100		
61	74.6	12.3	18.5#
70	3.0	9.5	14.3#





#38

Carbon Tetrachloride

Concen: 6.48 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Instrument :

MSVOA_W

ClientSampleId :

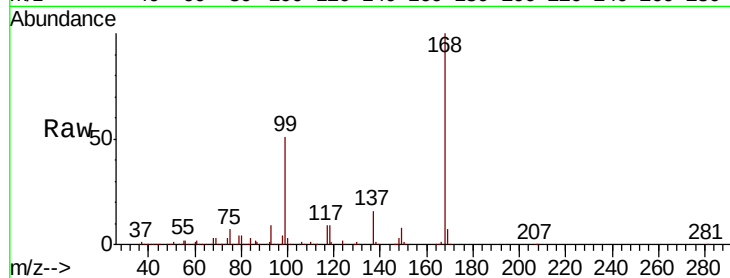
Tot Ion:117 Resp: 38781

Ion Ratio Lower Upper

117 100

119 7.8 77.5 116.3#

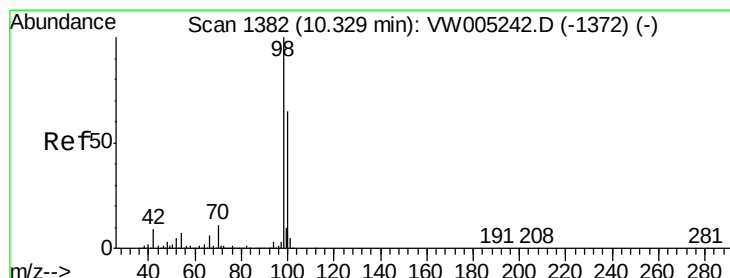
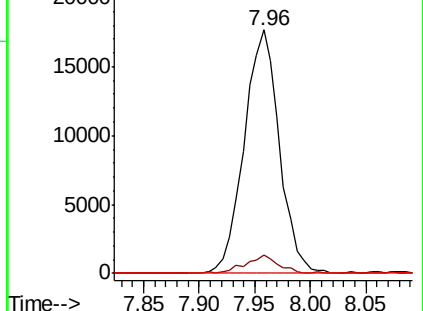
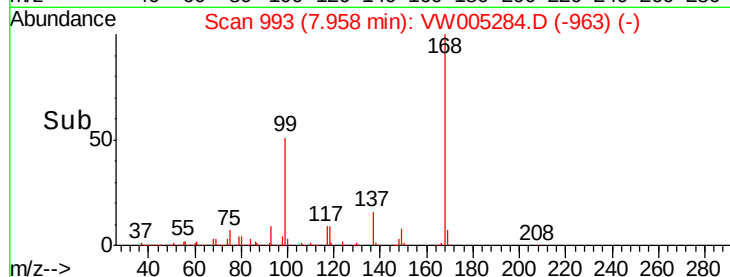
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 38.53 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005284.D

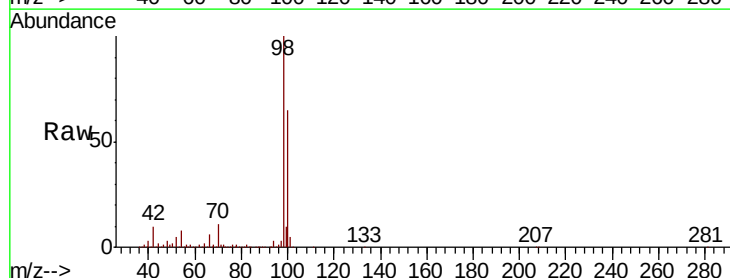
Acq: 11 Sep 2018 18:52

Tgt Ion: 98 Resp: 711625

Ion Ratio Lower Upper

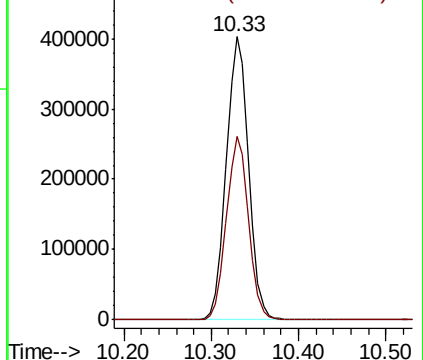
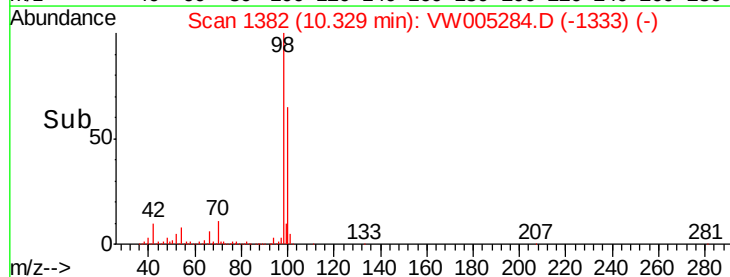
98 100

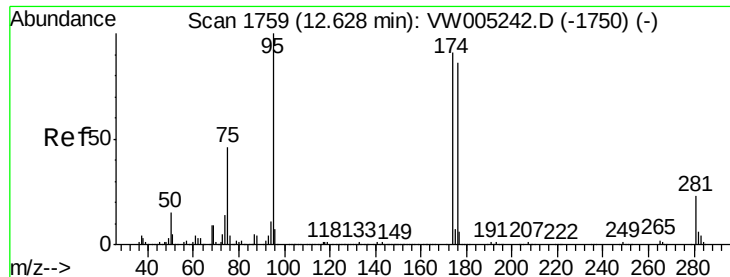
100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 40.06 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.01 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Instrument :

MSVOA_W

ClientSampleId :

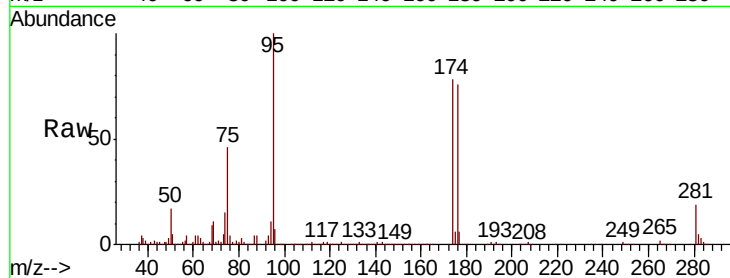
Tot Ion: 95 Resp: 270642

Ion Ratio Lower Upper

95 100

174 83.5 0.0 174.6

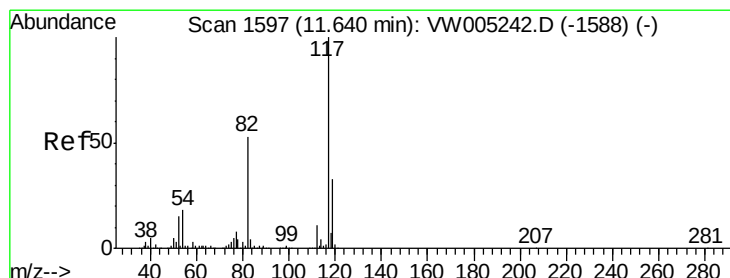
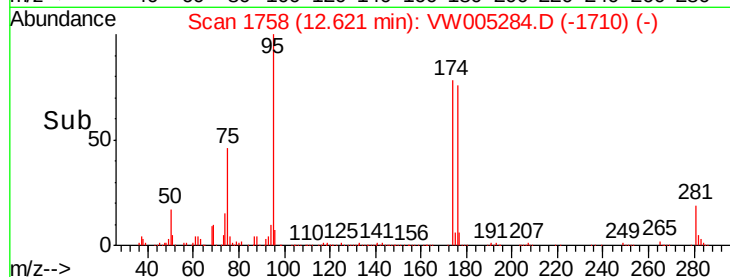
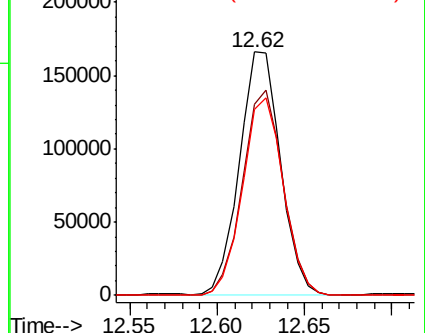
176 81.3 0.0 167.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

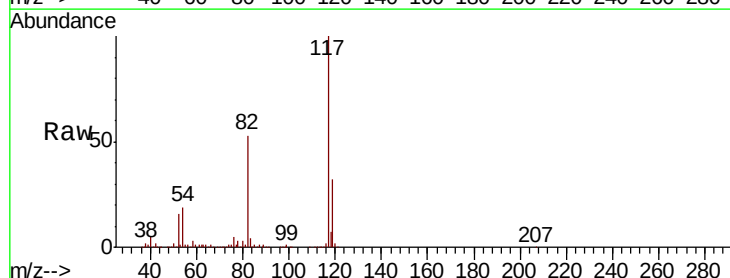
Tgt Ion: 117 Resp: 689856

Ion Ratio Lower Upper

117 100

82 52.7 42.6 63.8

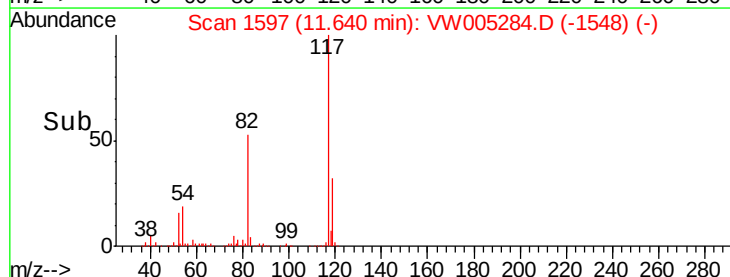
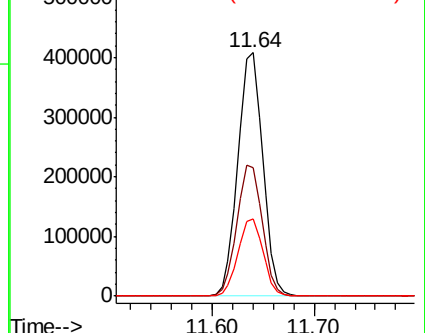
119 31.6 26.2 39.4

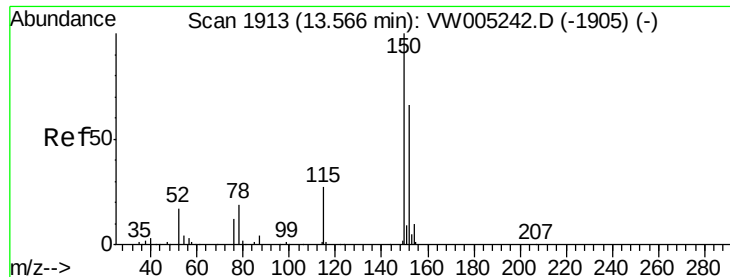


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Instrument :

MSVOA_W

ClientSampleId :

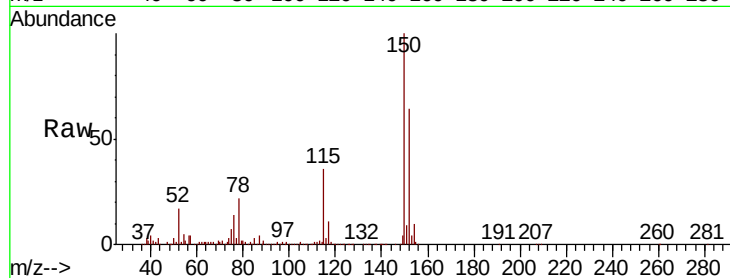
Tot Ion:152 Resp: 355268

Ion Ratio Lower Upper

152 100

115 58.4 27.5 82.4

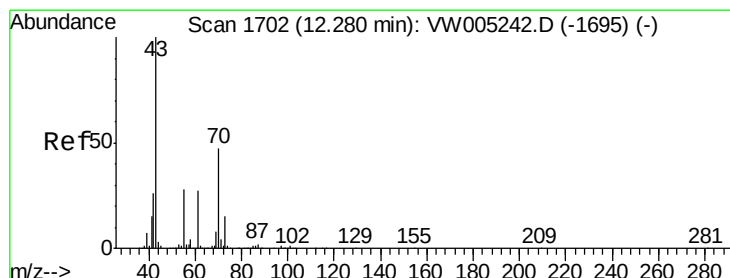
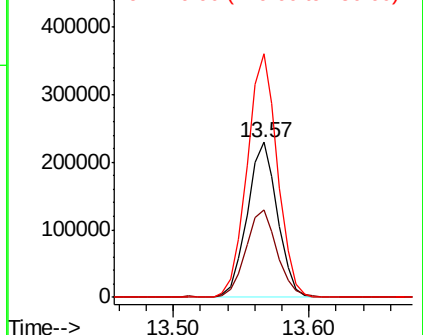
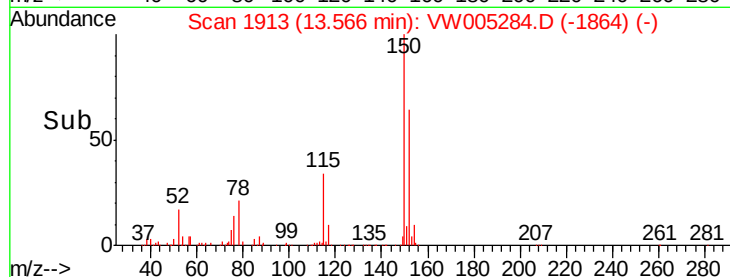
150 157.9 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.38 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Tgt Ion: 43 Resp: 16120

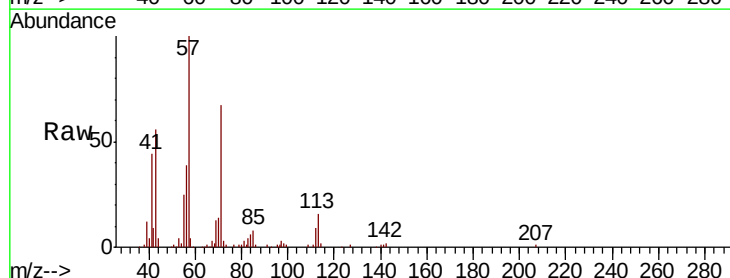
Ion Ratio Lower Upper

43 100

70 28.7 37.9 56.9#

55 41.7 22.6 33.8#

61 0.0 20.9 31.3#

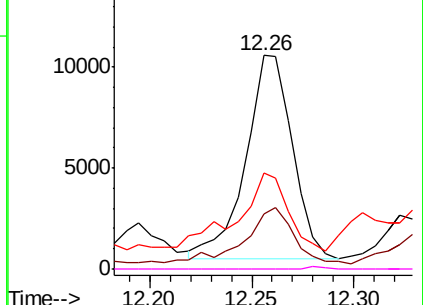
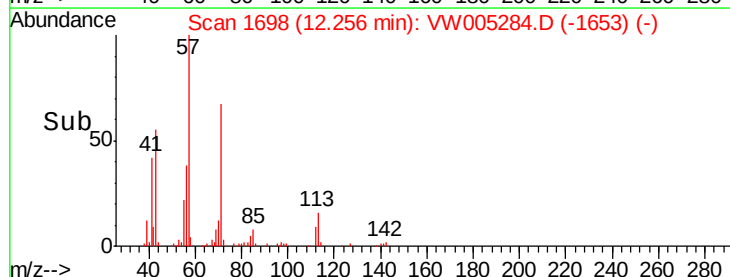


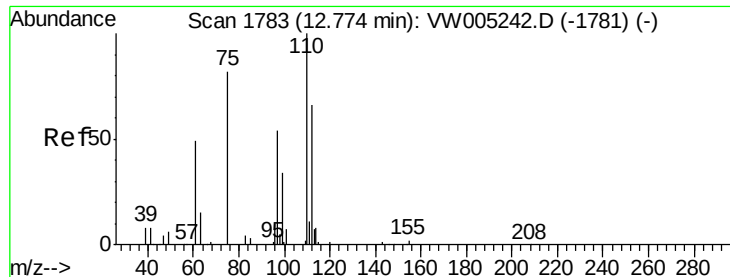
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

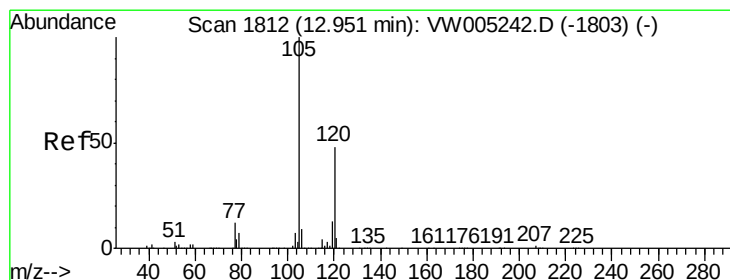
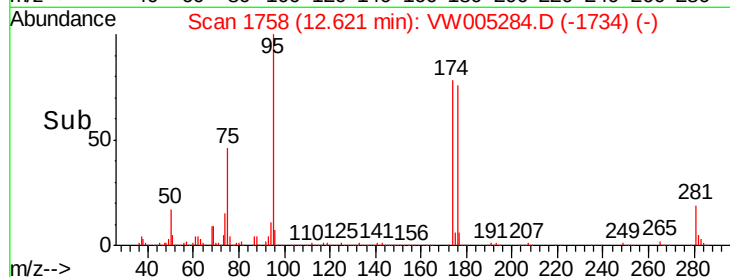
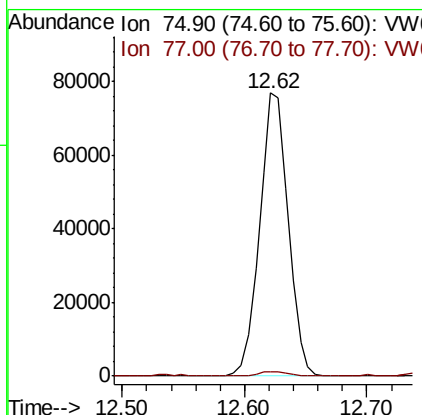
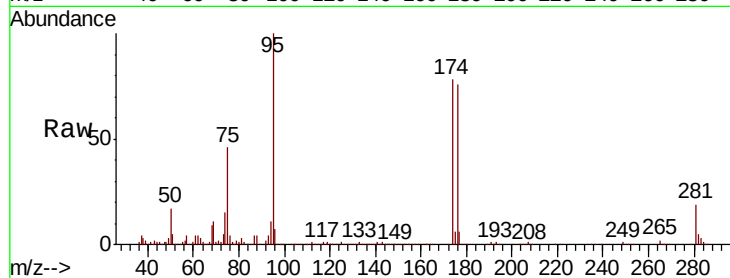




#76
 1,2,3-Trichloropropane
 Concen: 45.78 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

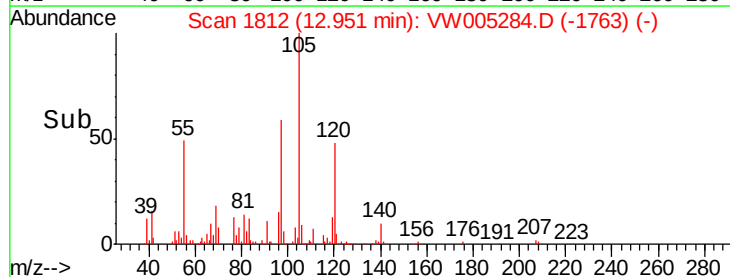
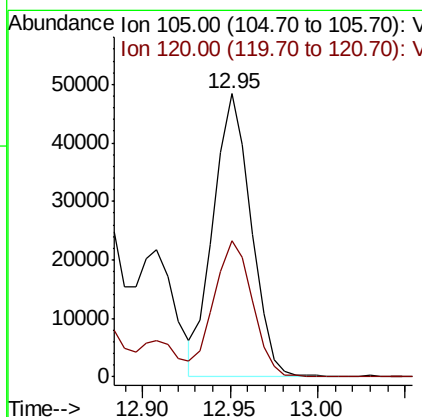
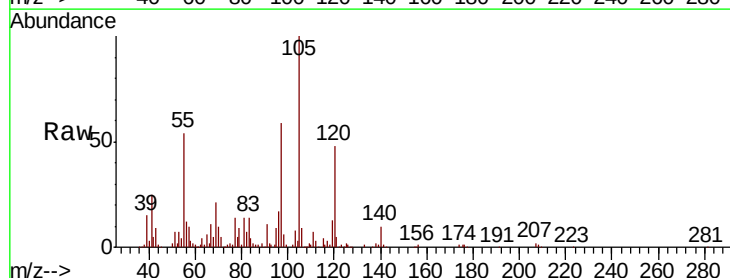
Instrument :
 MSVOA_W
 ClientSampleId :

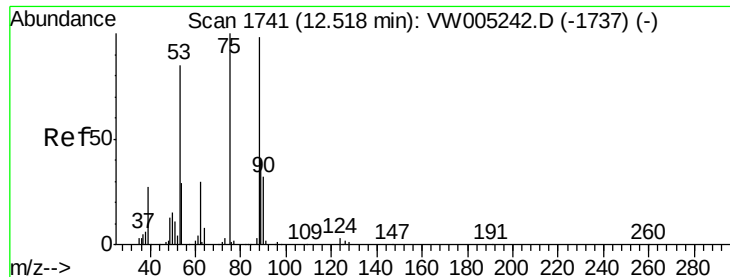
Tot Ion: 75 Resp: 125108
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 3.37 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.00 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

Tgt Ion:105 Resp: 71992
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.4 73.4





#81

trans-1,4-Dichloro-2-butene

Concen: 107.37 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Instrument :

MSVOA_W

ClientSampled :

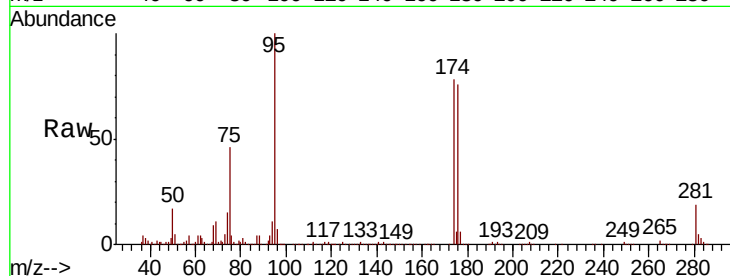
Tot Ion: 75 Resp: 125108

Ion Ratio Lower Upper

75 100

53 0.2 67.0 100.6#

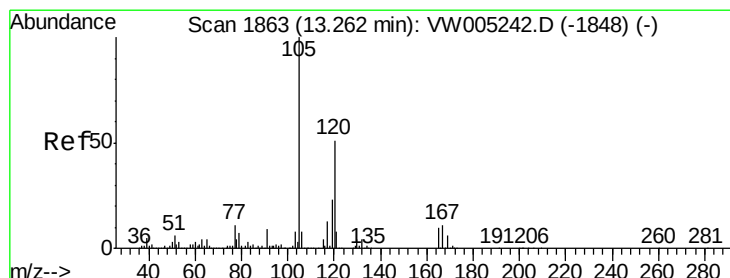
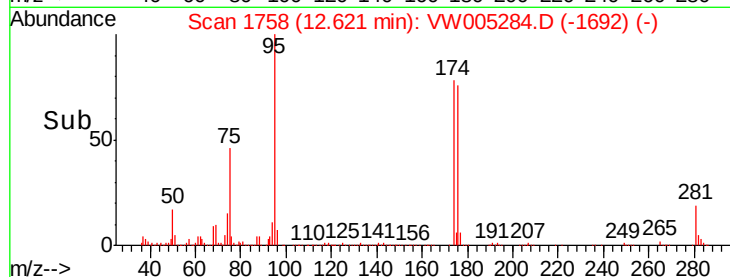
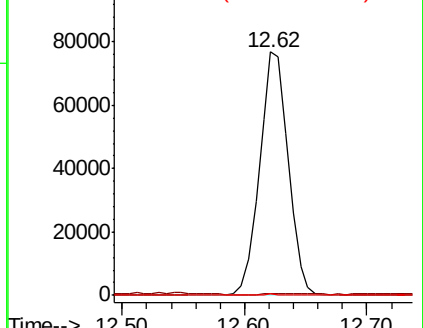
89 0.2 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 12.82 ug/l

RT: 13.26 min Scan# 1863

Delta R.T. 0.00 min

Lab File: VW005284.D

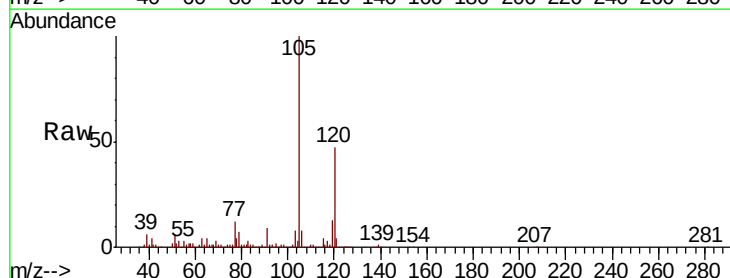
Acq: 11 Sep 2018 18:52

Tgt Ion: 105 Resp: 275296

Ion Ratio Lower Upper

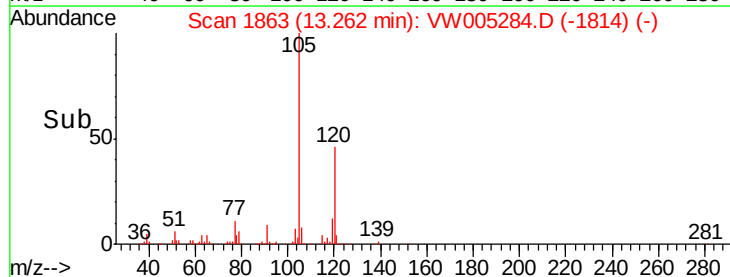
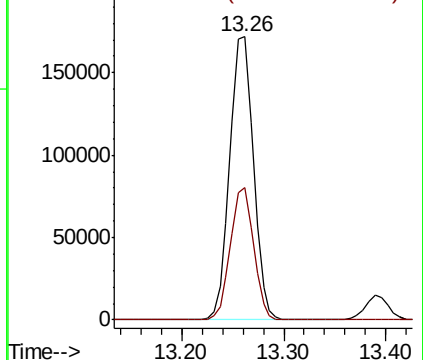
105 100

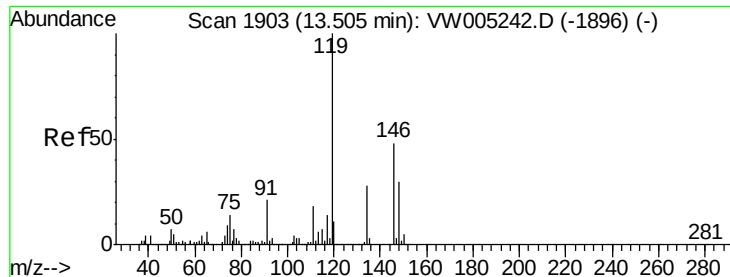
120 46.0 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

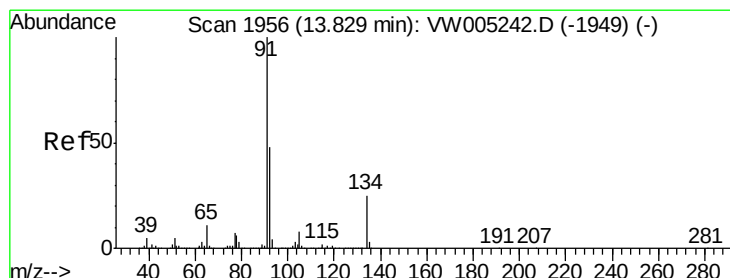
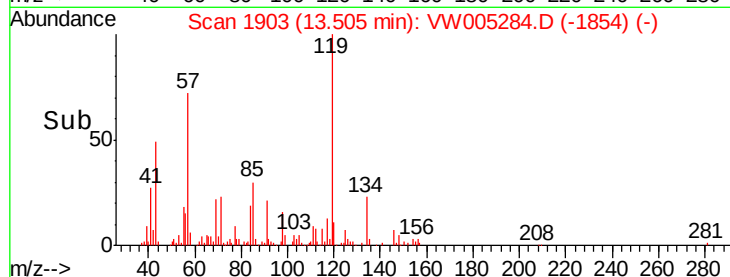
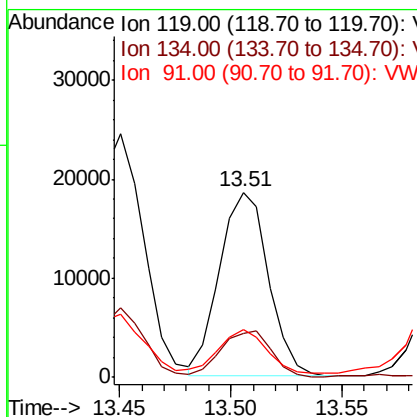
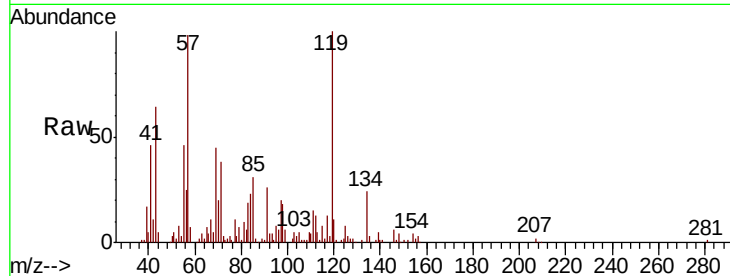




#86
 p-Isopropyltoluene
 Concen: 1.19 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

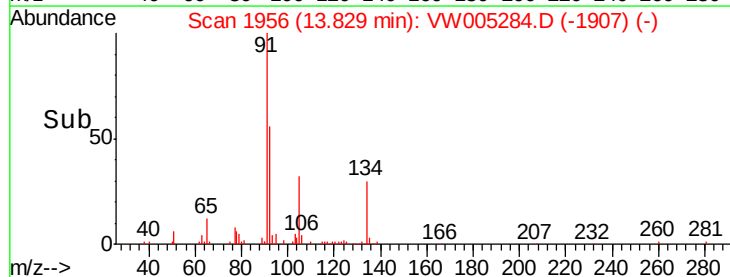
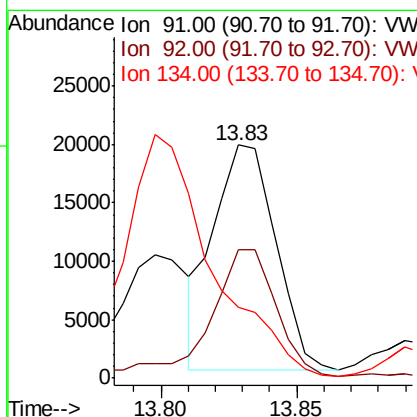
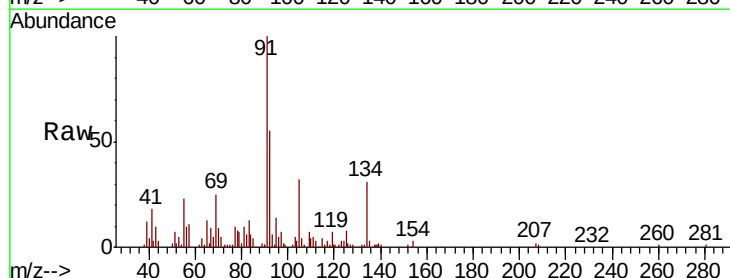
Instrument :
 MSVOA_W
 ClientSampleId :

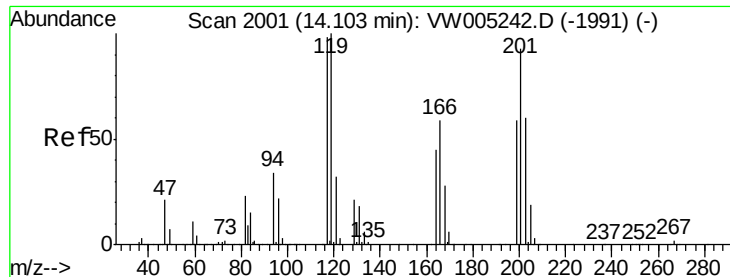
Tot Ion: 119 Resp: 28389
 Ion Ratio Lower Upper
 119 100
 134 26.2 13.2 39.5
 91 23.3 10.7 32.1



#89
 n-Butylbenzene
 Concen: 1.37 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VW005284.D
 Acq: 11 Sep 2018 18:52

Tgt Ion: 91 Resp: 30699
 Ion Ratio Lower Upper
 91 100
 92 60.0 25.8 77.3
 134 0.0 13.6 40.8#





#90

Hexachloroethane

Concen: 1.88 ug/l

RT: 14.11 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

Instrument :

MSVOA_W

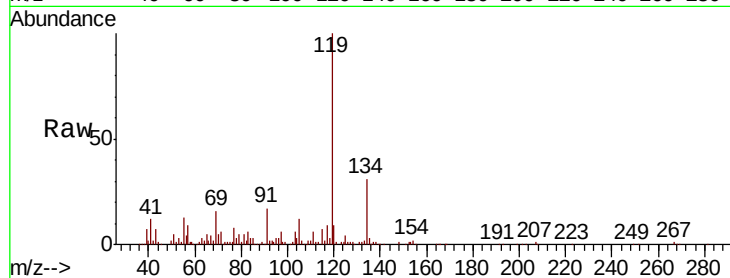
ClientSampled :

Tot Ion:117 Resp: 7154

Ion Ratio Lower Upper

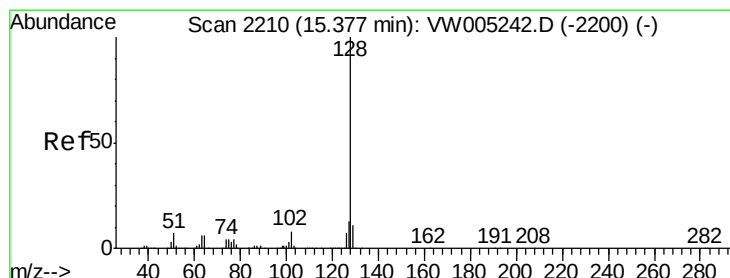
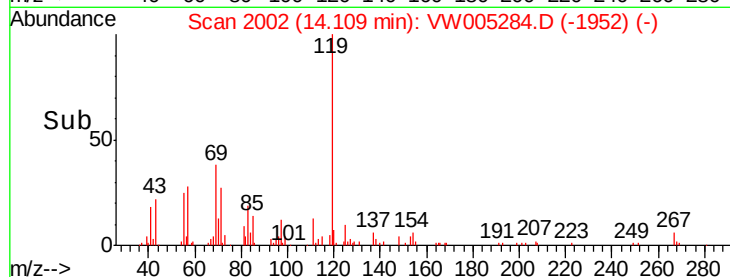
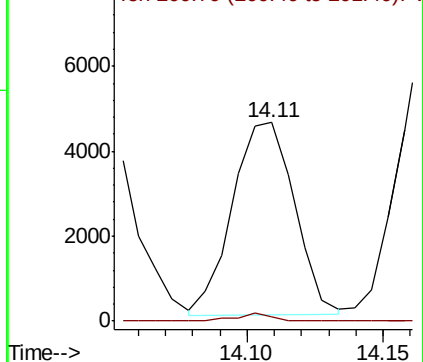
117 100

201 2.2 44.0 132.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 3.09 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW005284.D

Acq: 11 Sep 2018 18:52

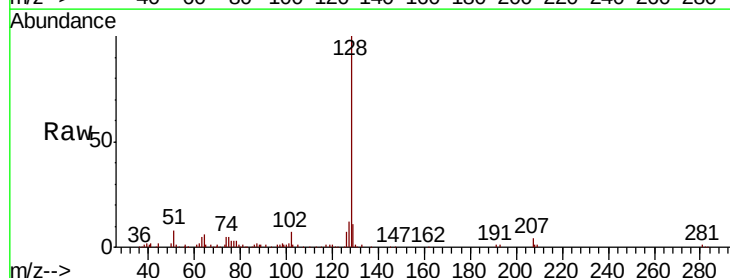
Tgt Ion:128 Resp: 38688

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 11.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

