

Data File : VW006854.D
Acq On : 13 Nov 2018 15:12
Operator : SY/AP
Sample : J5860-21
Misc : 5.73G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Nov 14 04:01:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W111218S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 12 14:58:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	352321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	491775	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	497821	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	278804	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	124825	48.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.94%	
35) Dibromofluoromethane	7.89	113	126884	43.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.66%	
50) Toluene-d8	10.33	98	510124	42.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.06%	
62) 4-Bromofluorobenzene	12.62	95	199385	44.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.20%	

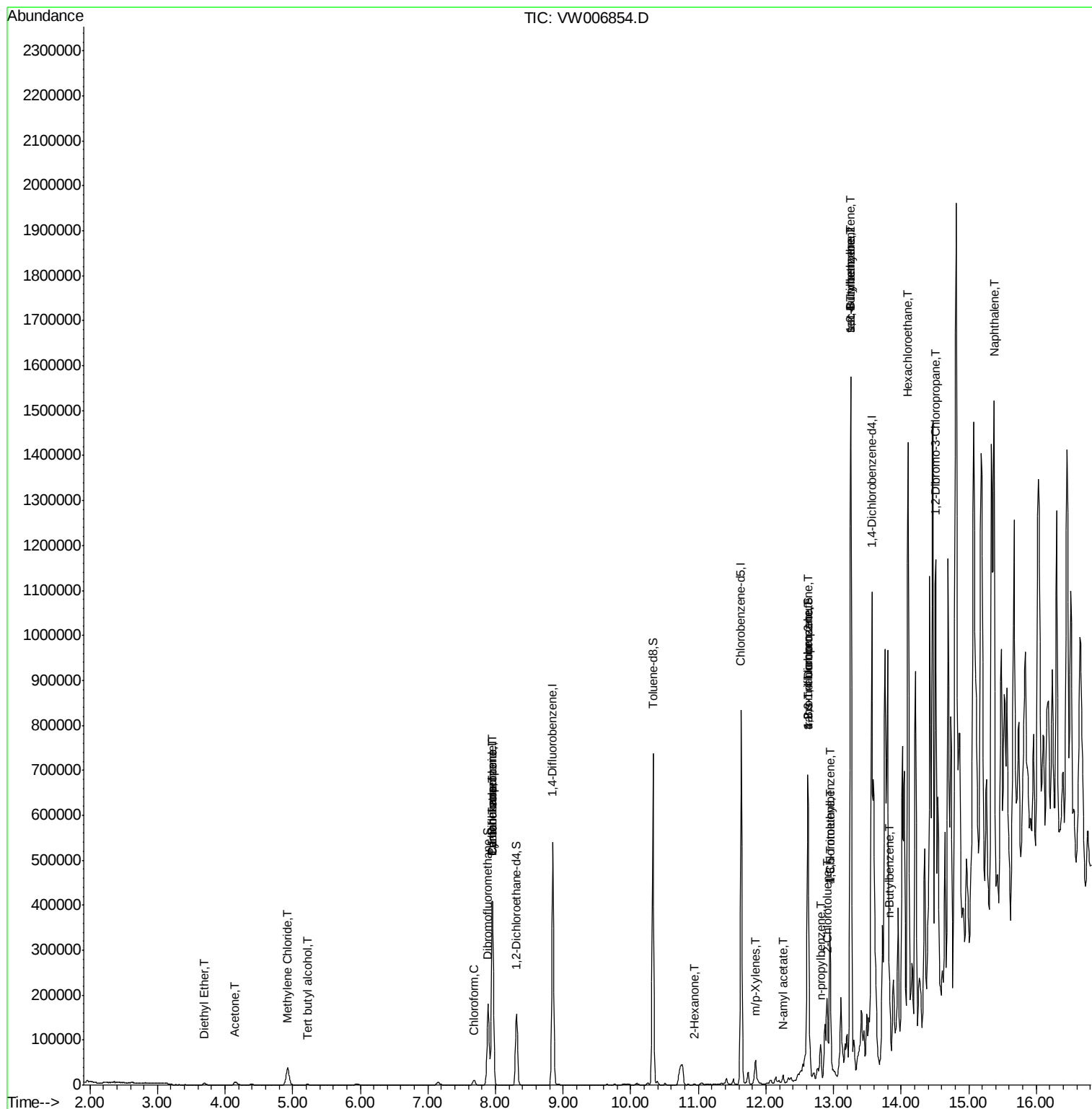
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.70	74	1978	1.451	ug/l	97
11) Tert butyl alcohol	5.22	59	2174	12.859	ug/l #	76
16) Acetone	4.15	43	13155	35.565	ug/l	98
20) Methylene Chloride	4.93	84	32229	4.880	ug/l	92
30) Chloroform	7.68	83	10052	1.910	ug/l	97
31) Cyclohexane	7.96	56	5284	1.071	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20929	4.548	ug/l #	48
38) Carbon Tetrachloride	7.96	117	30117	6.021	ug/l #	15
59) 2-Hexanone	10.94	43	1249	1.234	ug/l #	22
68) m/p-Xylenes	11.85	106	14047	1.823	ug/l	95
74) N-amyl acetate	12.26	43	4074	1.392	ug/l #	67
76) 1,2,3-Trichloropropane	12.62	75	94720	47.142	ug/l #	100
78) n-propylbenzene	12.81	91	56983	2.495	ug/l	99
79) 2-Chlorotoluene	12.91	91	12942	1.010	ug/l #	38
80) 1,3,5-Trimethylbenzene	12.95	105	159206	9.569	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	94720	116.610	ug/l #	13
82) 4-Chlorotoluene	12.95	91	16499	1.207	ug/l #	41
83) tert-Butylbenzene	13.26	119	110802	7.534	ug/l #	68
84) 1,2,4-Trimethylbenzene	13.26	105	873816	51.611	ug/l	99
85) sec-Butylbenzene	13.26	105	873816	41.932	ug/l #	55
89) n-Butylbenzene	13.83	91	63312	3.655	ug/l #	60
90) Hexachloroethane	14.10	117	62754	20.690	ug/l #	3
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2210	5.156	ug/l #	1
95) Naphthalene	15.38	128	932513	95.363	ug/l #	95

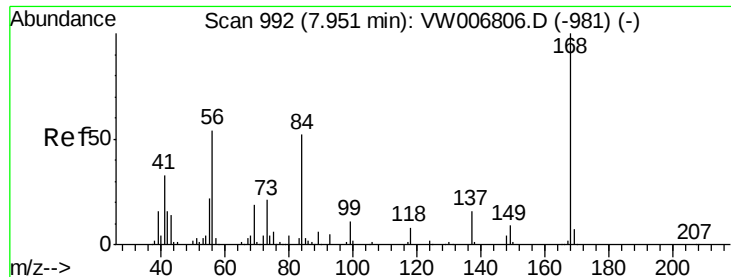
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW006854.D

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Instrument :

MSVOA_W

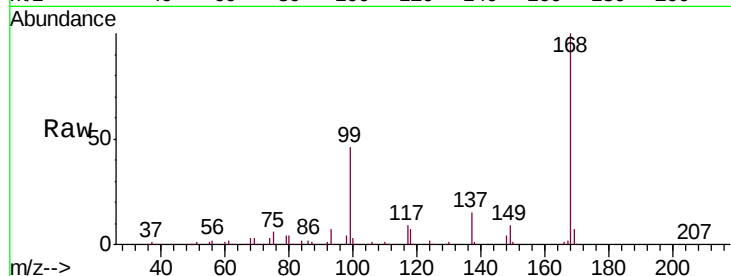
ClientSampled :

Tgt Ion:168 Resp: 352321

Ion Ratio Lower Upper

168 100

99 46.4 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

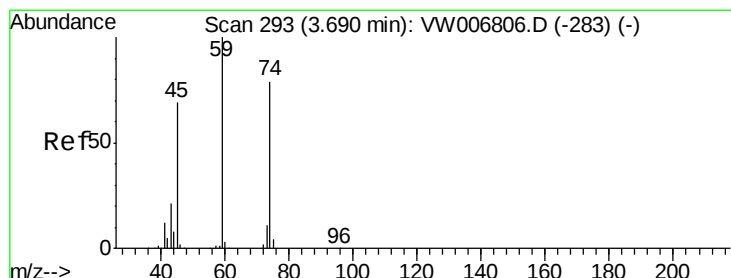
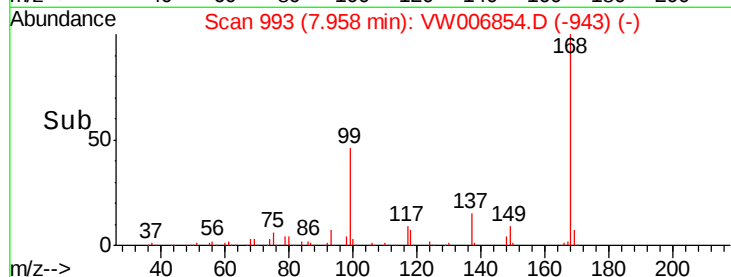
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.451 ug/l

RT: 3.70 min Scan# 295

Delta R.T. 0.01 min

Lab File: VW006854.D

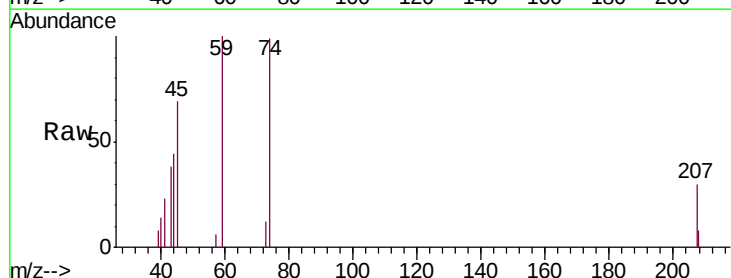
Acq: 13 Nov 2018 15:12

Tgt Ion: 74 Resp: 1978

Ion Ratio Lower Upper

74 100

45 88.8 43.1 129.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.70

800

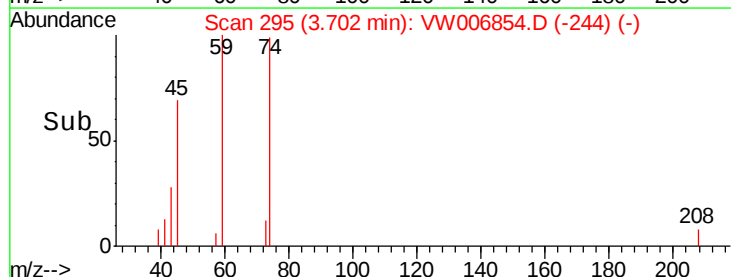
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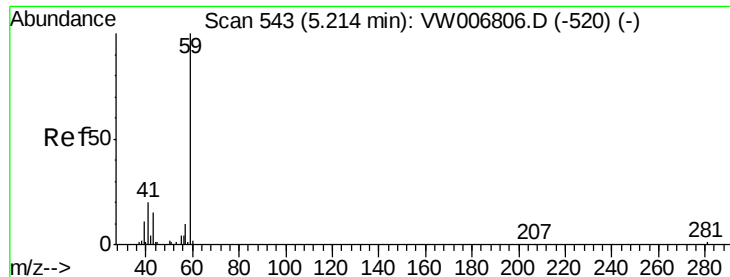
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200

0

Time-->

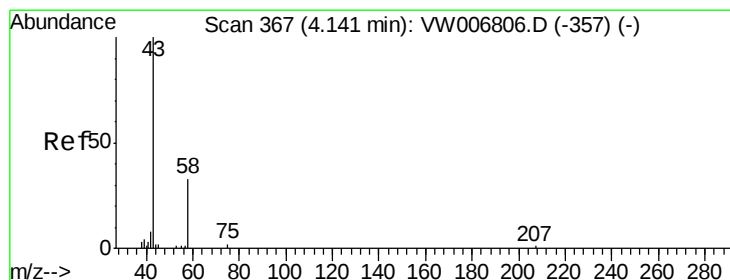
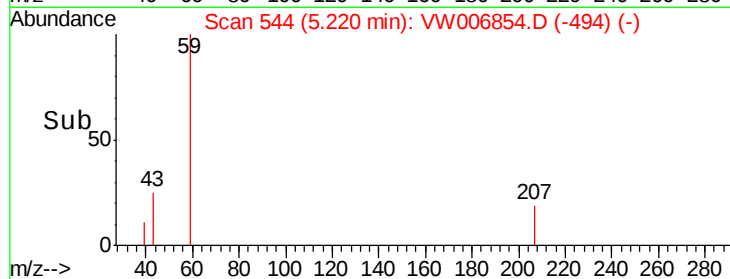
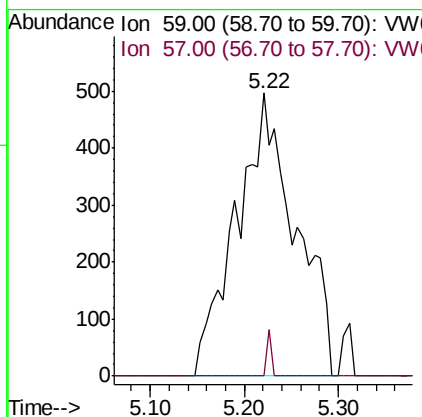
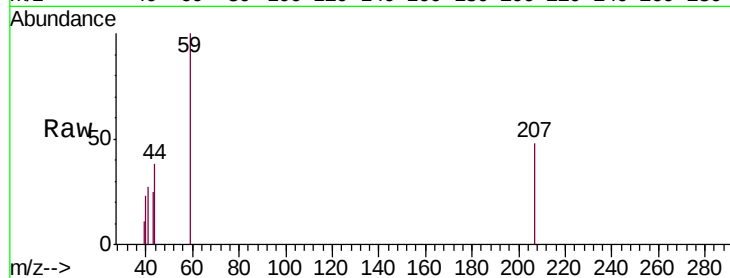




#11
Tert butyl alcohol
Concen: 12.859 ug/l
RT: 5.22 min Scan# 544
Delta R.T. 0.01 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

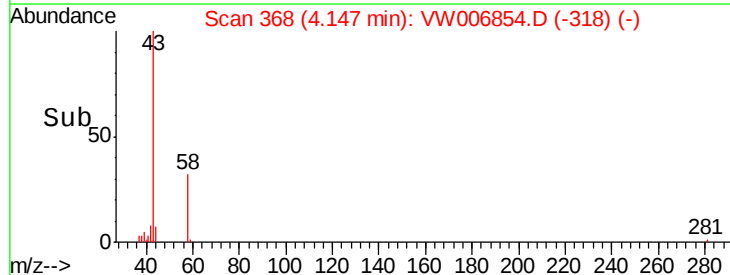
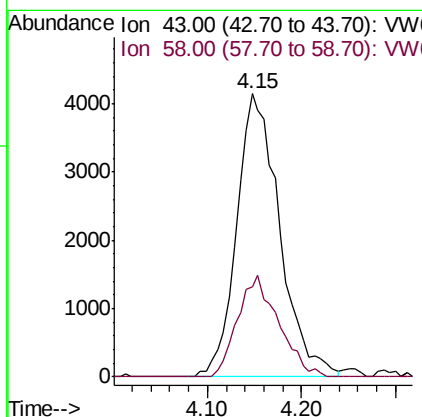
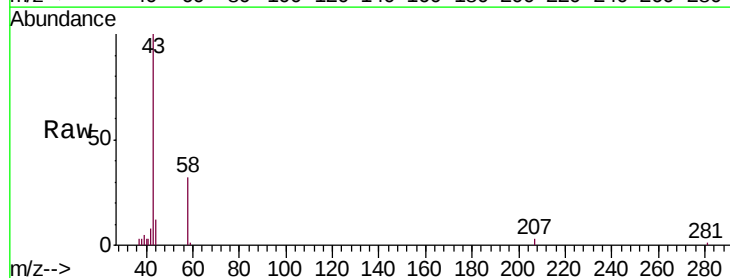
Instrument :
MSVOA_W
ClientSampled :

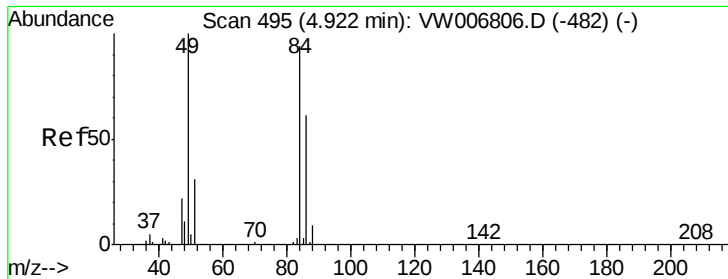
Tgt Ion: 59 Resp: 2174
Ion Ratio Lower Upper
59 100
57 1.4 8.3 12.5#



#16
Acetone
Concen: 35.565 ug/l
RT: 4.15 min Scan# 368
Delta R.T. 0.01 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

Tgt Ion: 43 Resp: 13155
Ion Ratio Lower Upper
43 100
58 31.9 26.5 39.7

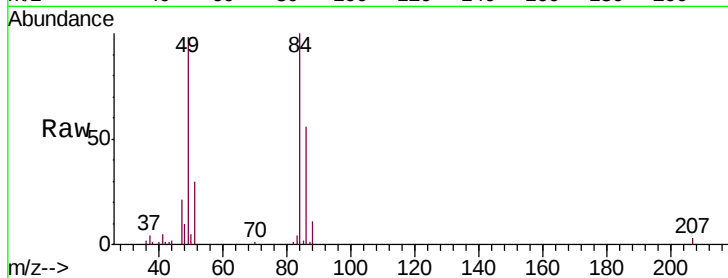




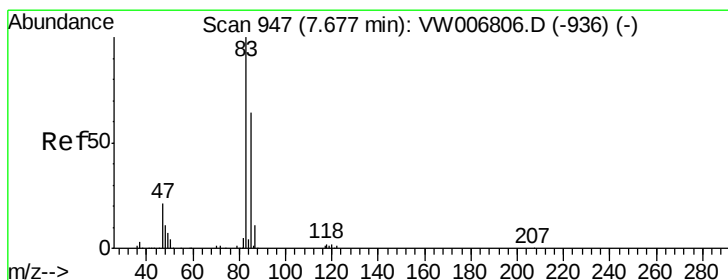
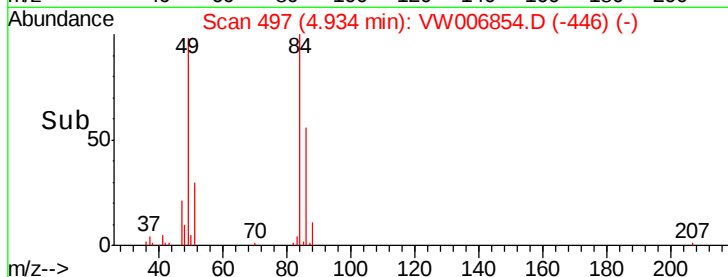
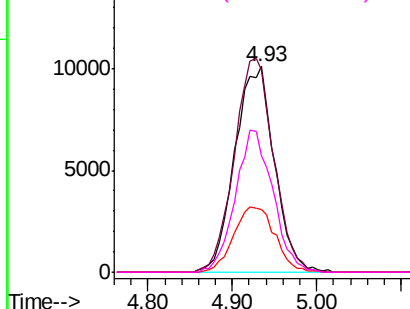
#20
Methylene Chloride
Concen: 4.880 ug/l
RT: 4.93 min Scan# 497
Delta R.T. 0.01 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:	84	Resp:	32229
Ion	Ratio	Lower	Upper
84	100		
49	98.1	84.8	127.2
51	30.5	26.2	39.4
86	56.3	51.8	77.8

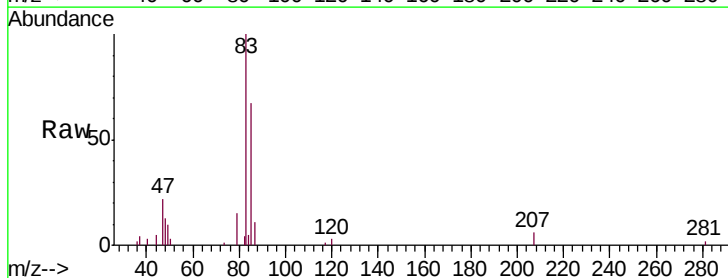


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

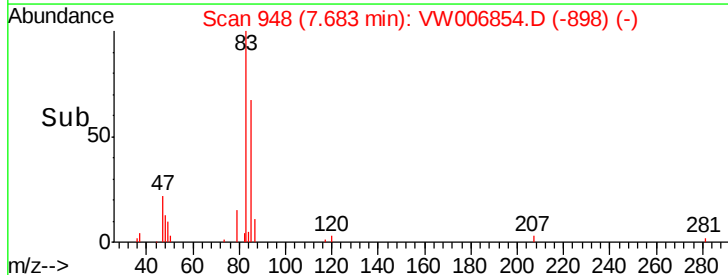
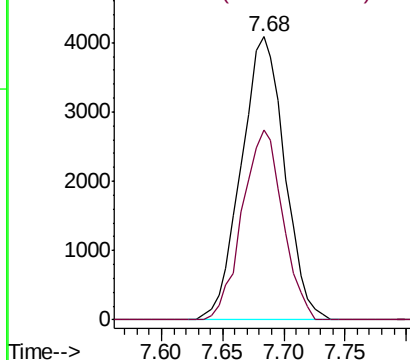


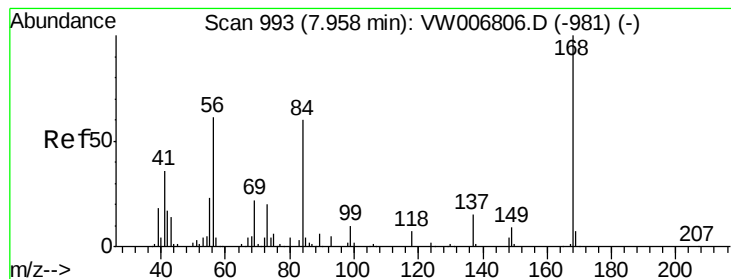
#30
Chloroform
Concen: 1.910 ug/l
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

Tgt Ion:	83	Resp:	10052
Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.5	77.3



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 1.071 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW006854.D

Acq: 13 Nov 2018 15:12

Instrument :

MSVOA_W

ClientSampled :

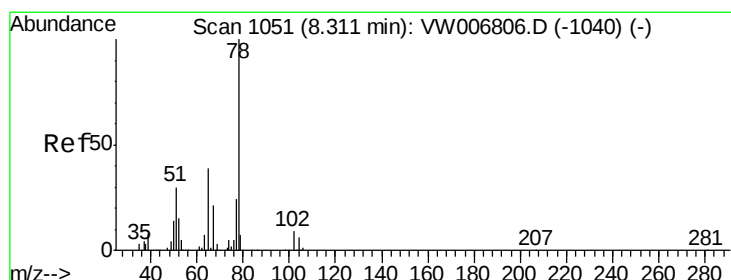
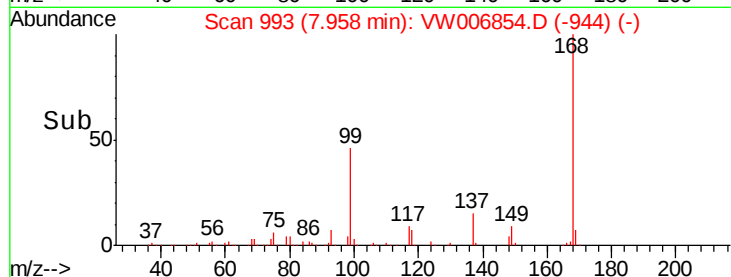
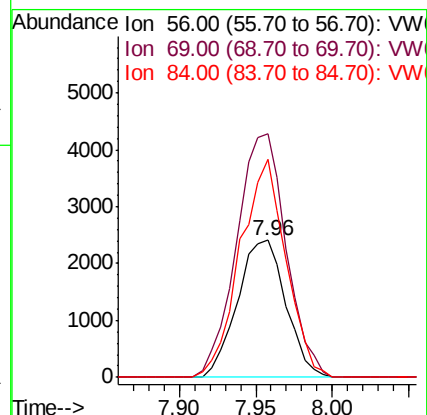
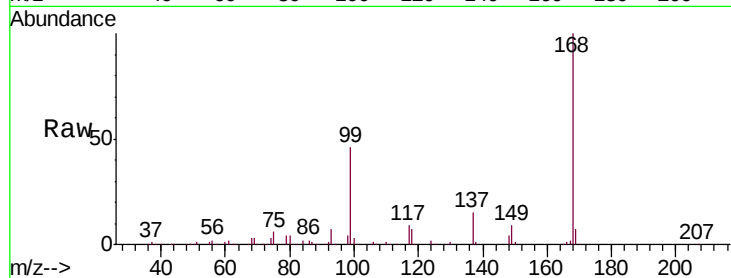
Tgt Ion: 56 Resp: 5284

Ion Ratio Lower Upper

56 100

69 178.0 28.9 43.3#

84 159.2 79.0 118.4#



#33

1,2-Dichloroethane-d4

Concen: 48.465 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW006854.D

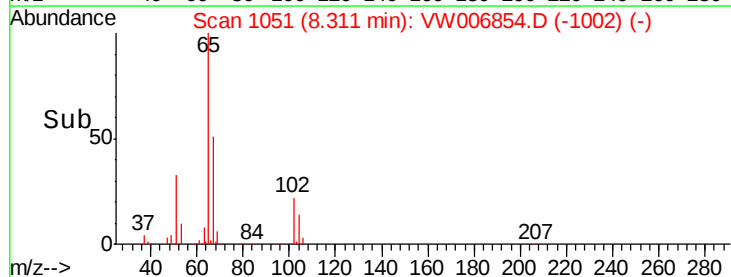
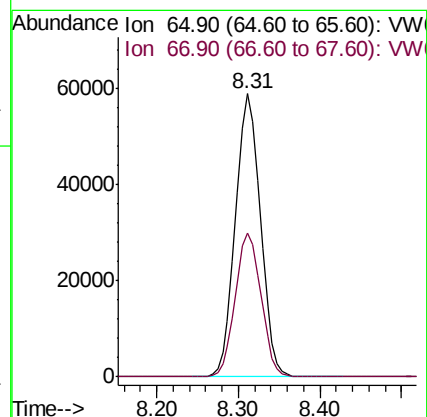
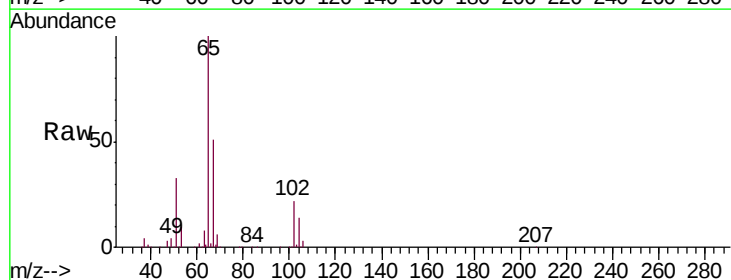
Acq: 13 Nov 2018 15:12

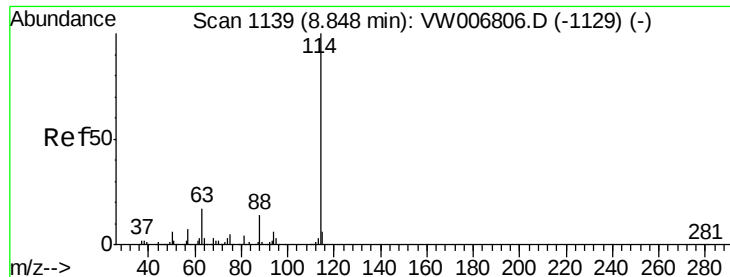
Tgt Ion: 65 Resp: 124825

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.4

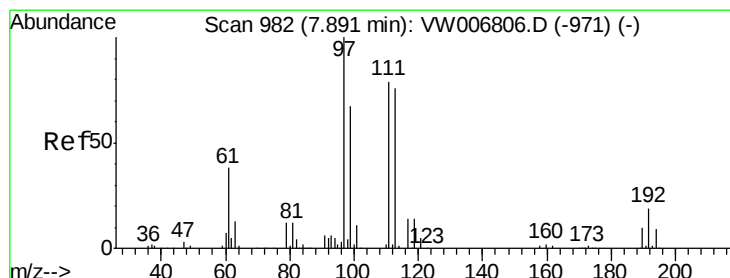
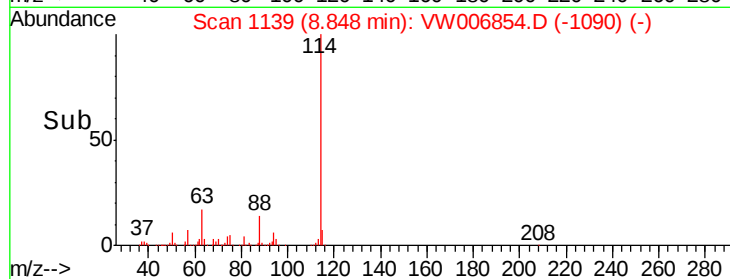
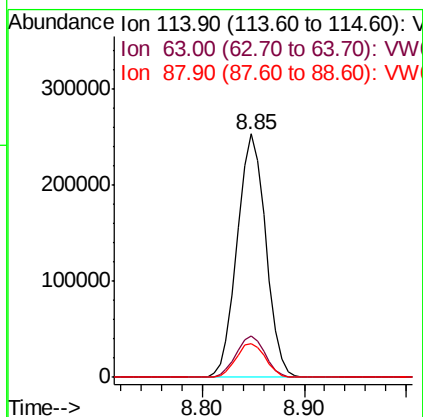
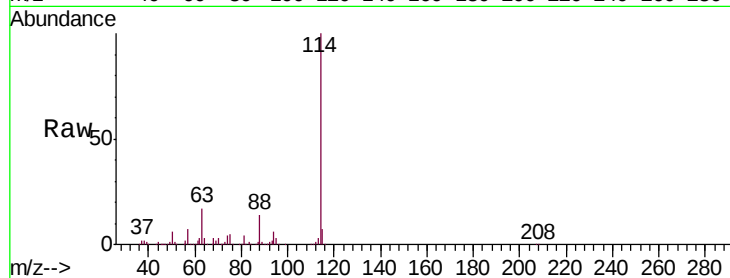




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

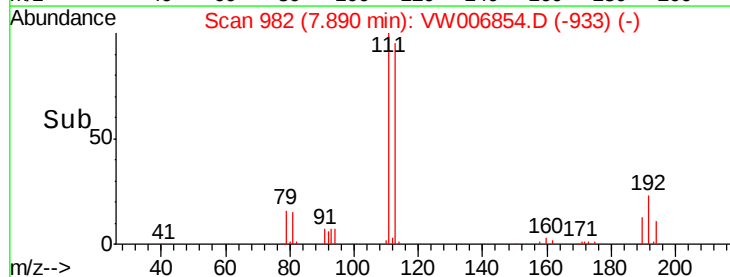
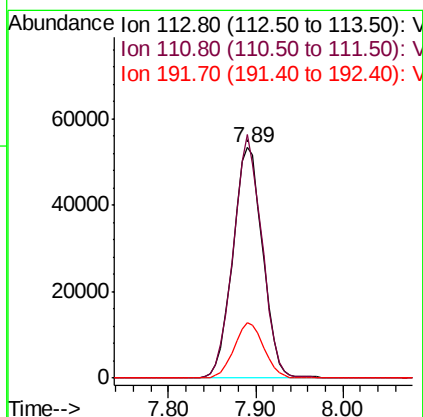
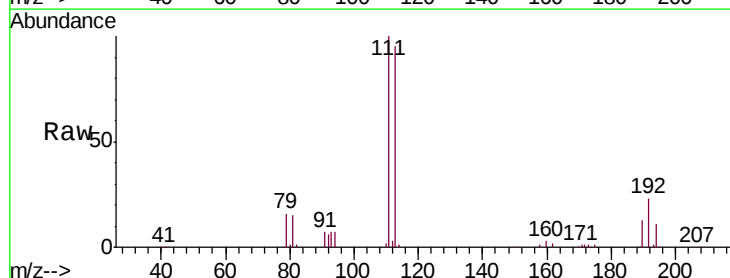
Instrument :
 MSVOA_W
 ClientSampleId :

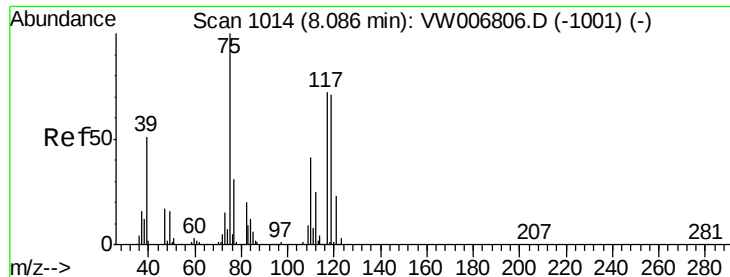
Tgt Ion:114 Resp: 491775
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 33.6
 88 14.1 0.0 28.4



#35
 Dibromofluoromethane
 Concen: 43.329 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

Tgt Ion:113 Resp: 126884
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.0 121.6
 192 24.0 19.0 28.6

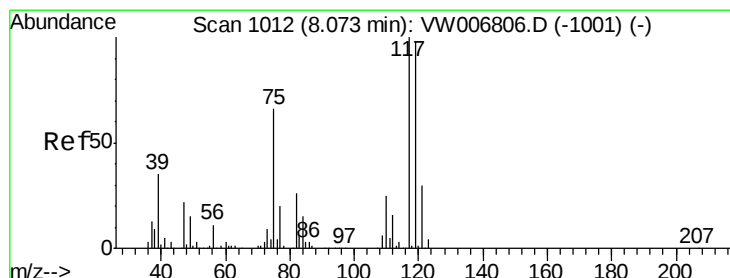
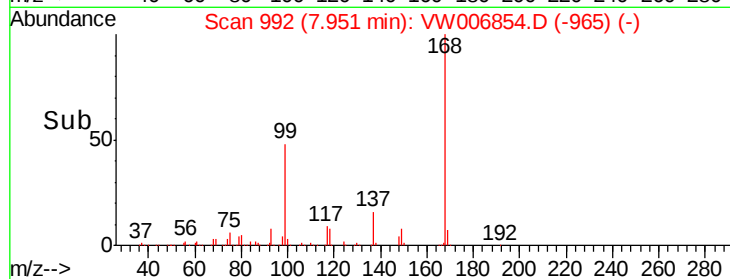
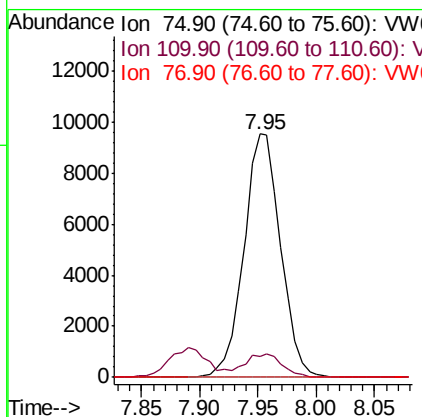
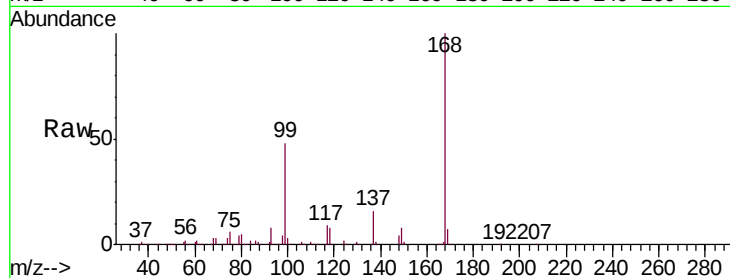




#36
 1,1-Dichloropropene
 Concen: 4.548 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

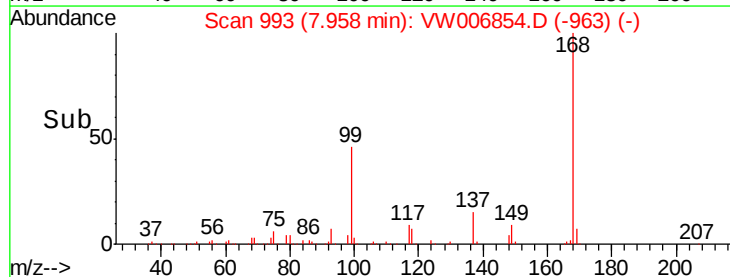
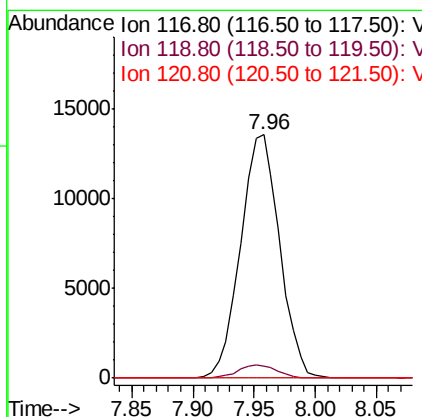
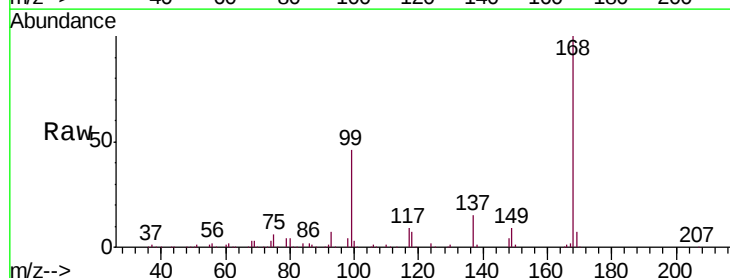
Instrument :
 MSVOA_W
 ClientSampled :

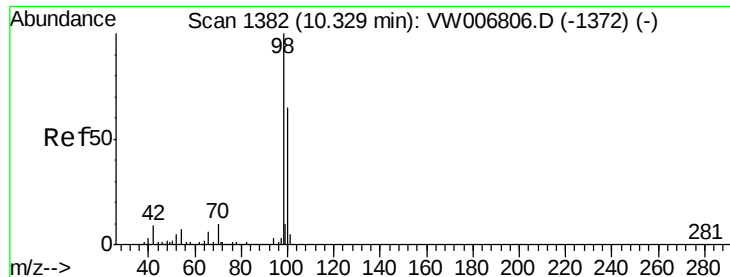
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	19.9	59.6#
77	0.0	25.4	38.2#



#38
 Carbon Tetrachloride
 Concen: 6.021 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	78.5	117.7#
121	0.0	24.2	36.2#





#50

Toluene-d8

Concen: 42.028 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW006854.D

Acq: 13 Nov 2018 15:12

Instrument :

MSVOA_W

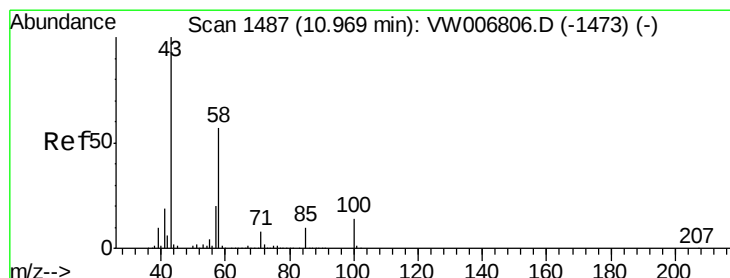
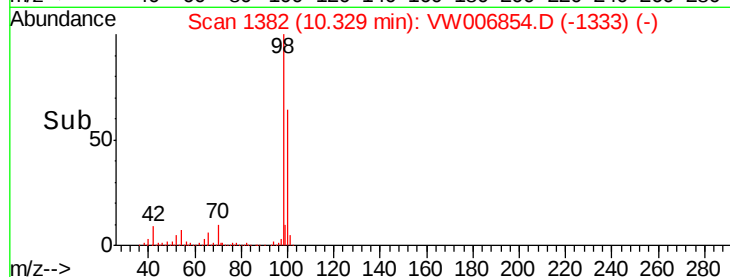
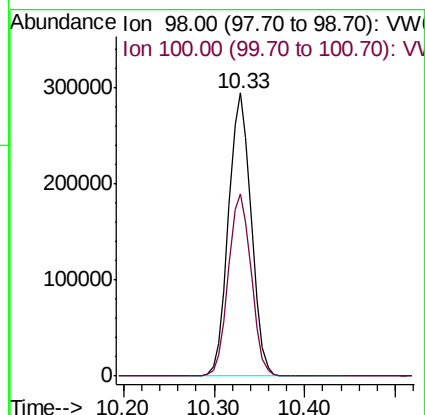
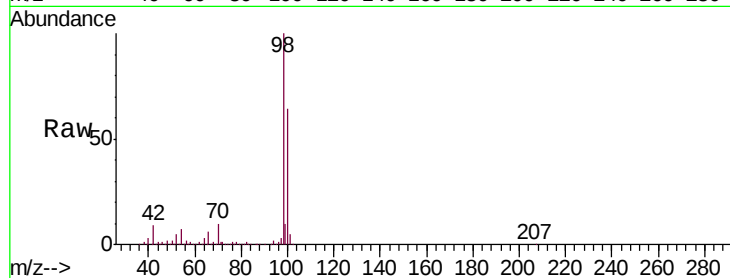
ClientSampleId :

Tgt Ion: 98 Resp: 510124

Ion Ratio Lower Upper

98 100

100 64.9 51.4 77.2



#59

2-Hexanone

Concen: 1.234 ug/l

RT: 10.94 min Scan# 1483

Delta R.T. -0.02 min

Lab File: VW006854.D

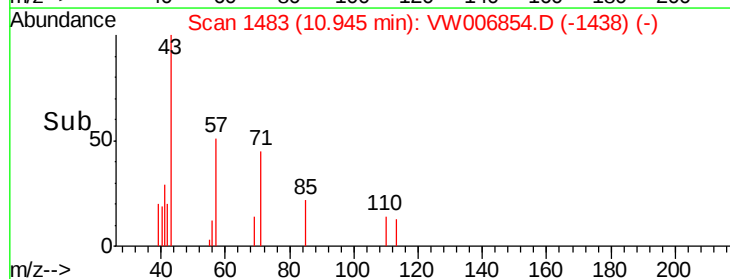
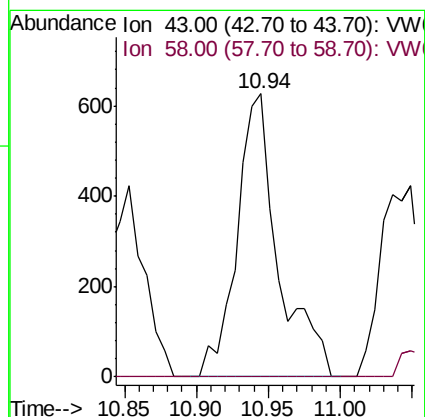
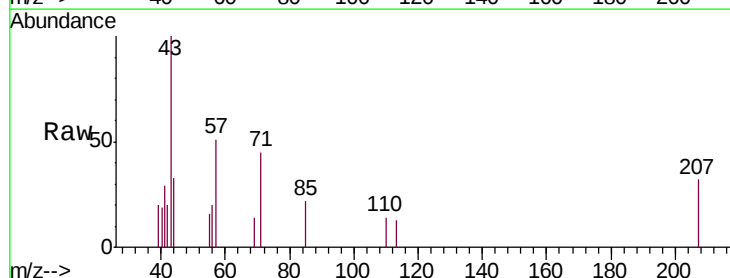
Acq: 13 Nov 2018 15:12

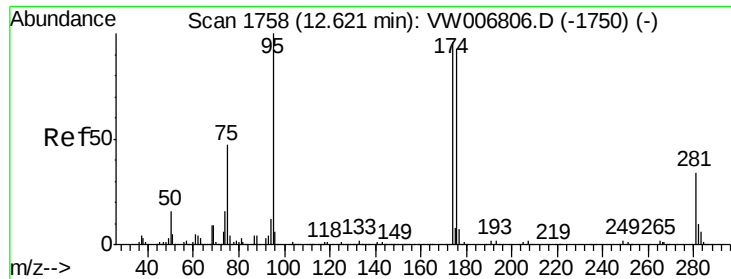
Tgt Ion: 43 Resp: 1249

Ion Ratio Lower Upper

43 100

58 0.0 28.7 86.1#





#62

4-Bromofluorobenzene

Concen: 44.601 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006854.D

Acq: 13 Nov 2018 15:12

Instrument :

MSVOA_W

ClientSampleId :

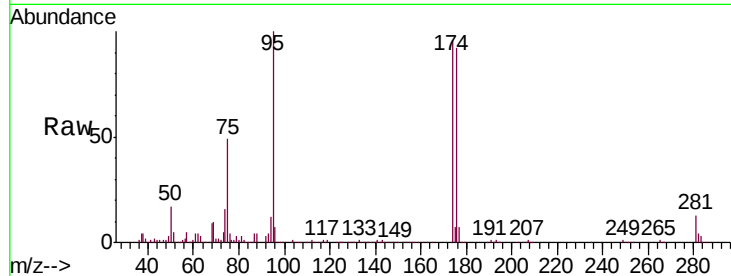
Tgt Ion: 95 Resp: 199385

Ion Ratio Lower Upper

95 100

174 97.2 0.0 196.6

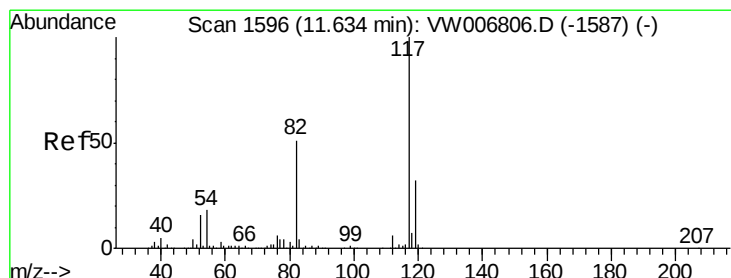
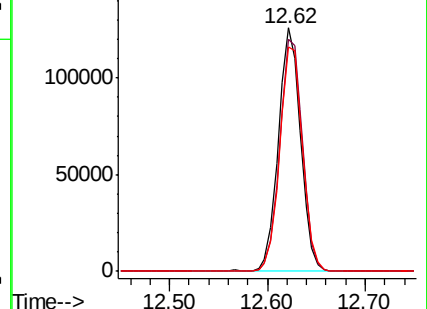
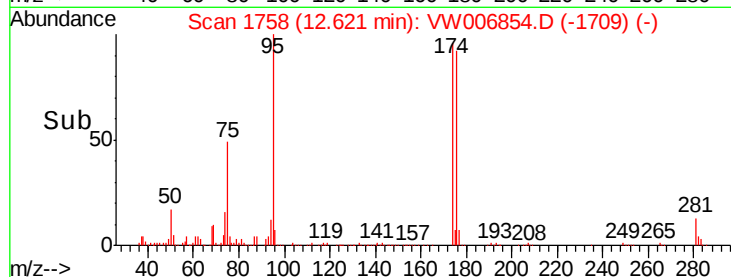
176 94.6 0.0 191.6



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: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW006854.D

Acq: 13 Nov 2018 15:12

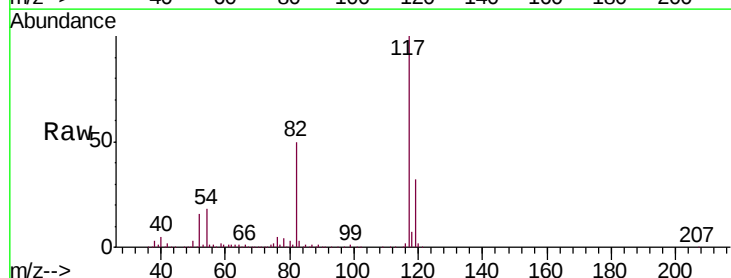
Tgt Ion: 117 Resp: 497821

Ion Ratio Lower Upper

117 100

82 49.6 40.6 61.0

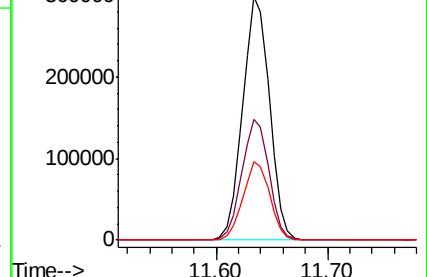
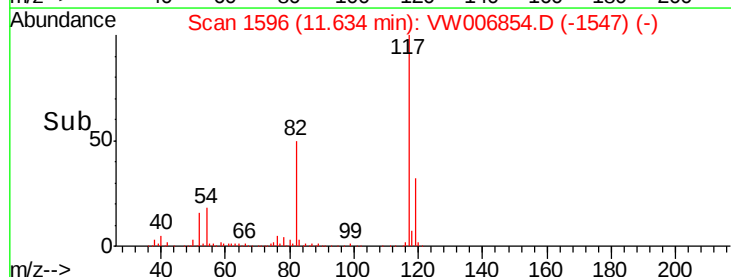
119 32.5 25.5 38.3

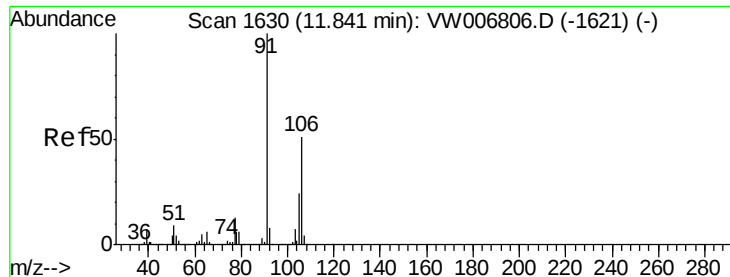


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

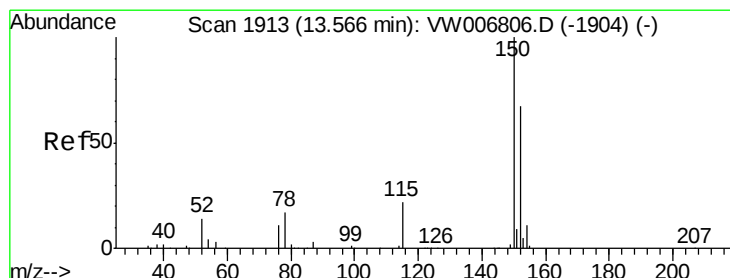
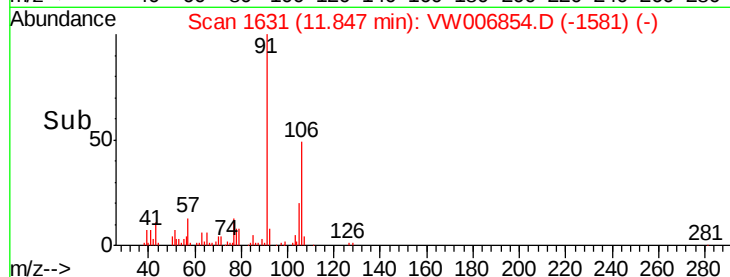
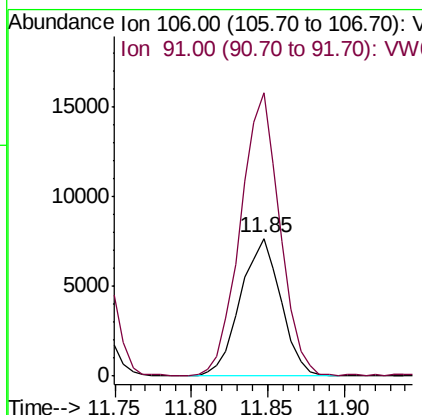
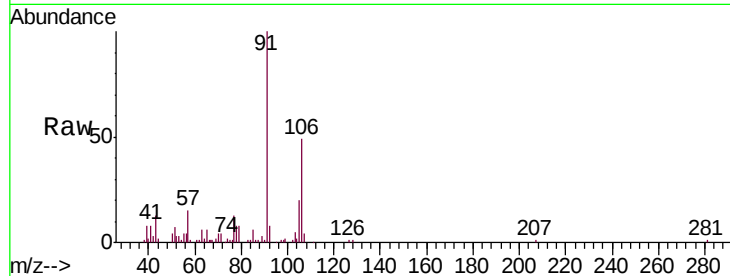




#68
m/p-Xylenes
Concen: 1.823 ug/l
RT: 11.85 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

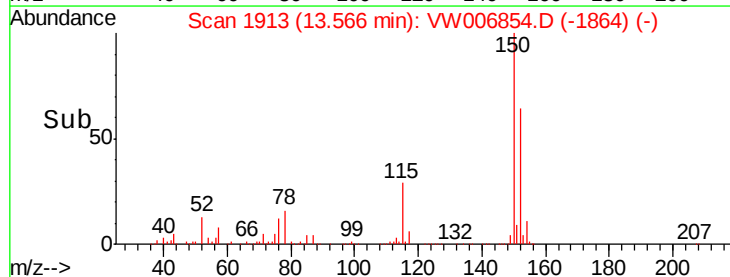
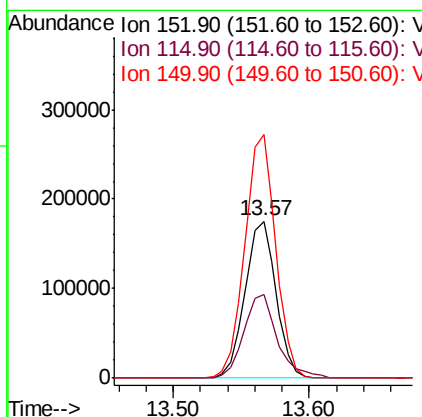
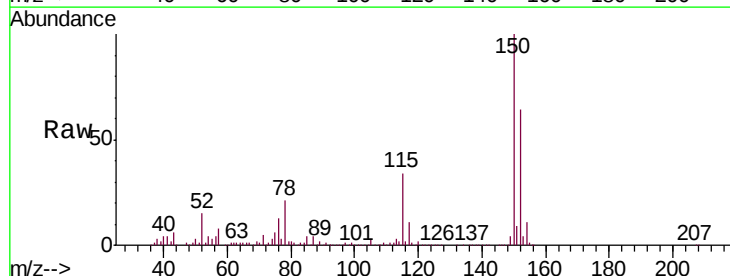
Instrument :
MSVOA_W
ClientSampleId :

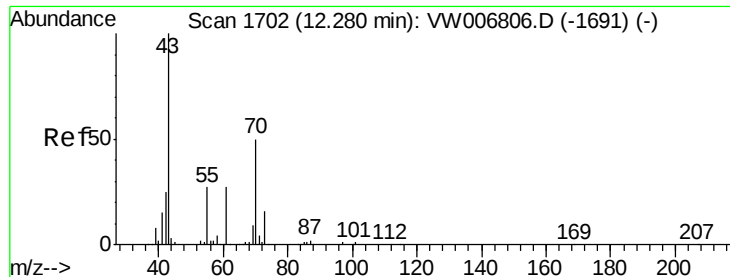
Tgt Ion:106 Resp: 14047
Ion Ratio Lower Upper
106 100
91 201.9 155.7 233.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

Tgt Ion:152 Resp: 278804
Ion Ratio Lower Upper
152 100
115 57.1 27.3 81.8
150 154.9 0.0 353.0





#74

N-amyI acetate

Concen: 1.392 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW006854.D

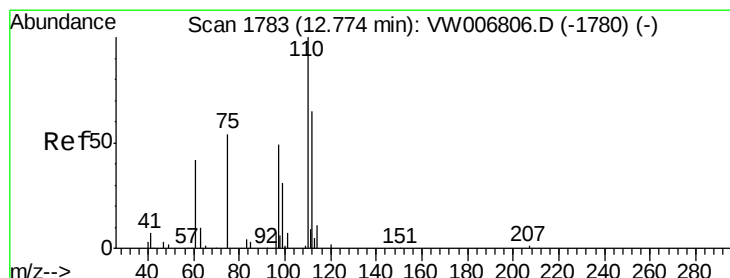
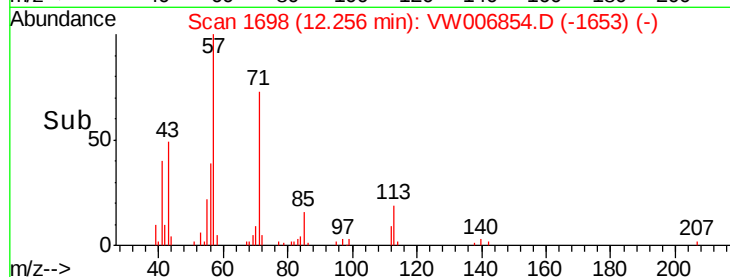
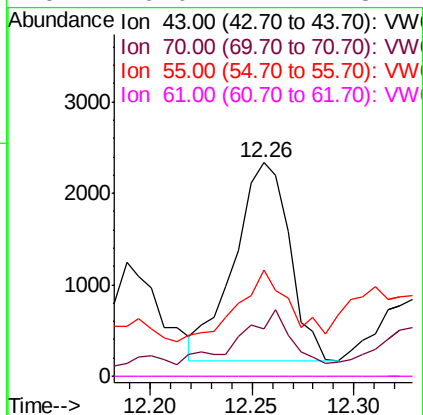
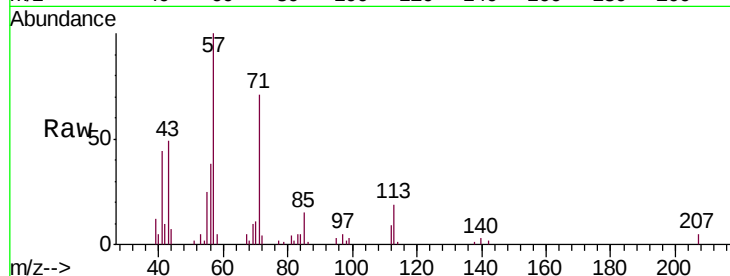
Acq: 13 Nov 2018 15:12

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	43	Resp:	4074
Ion	Ratio	Lower	Upper
43	100		
70	25.4	39.0	58.4#
55	34.4	22.1	33.1#
61	0.0	21.1	31.7#



#76

1,2,3-Trichloropropane

Concen: 47.142 ug/l

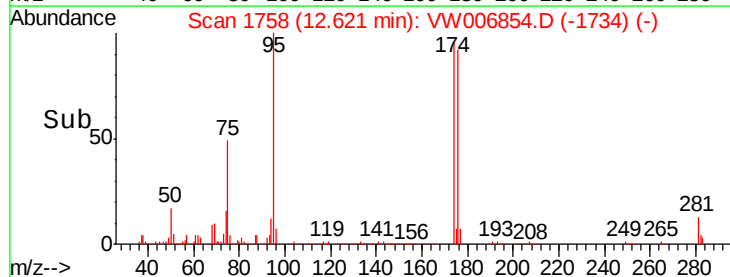
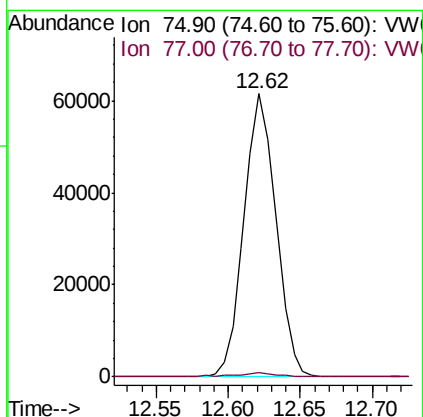
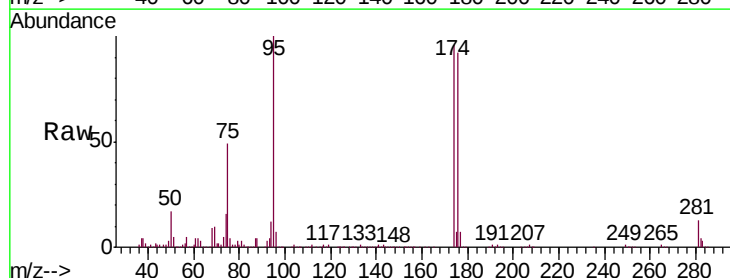
RT: 12.62 min Scan# 1758

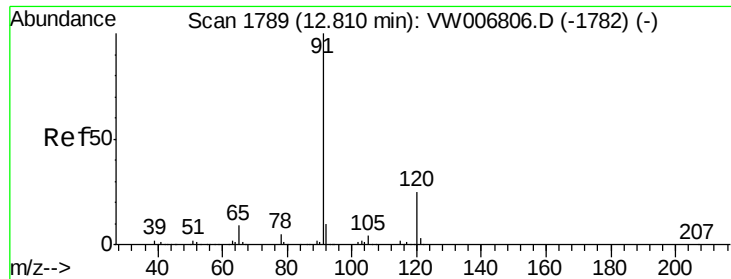
Delta R.T. -0.15 min

Lab File: VW006854.D

Acq: 13 Nov 2018 15:12

Tgt Ion:	75	Resp:	94720
Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#

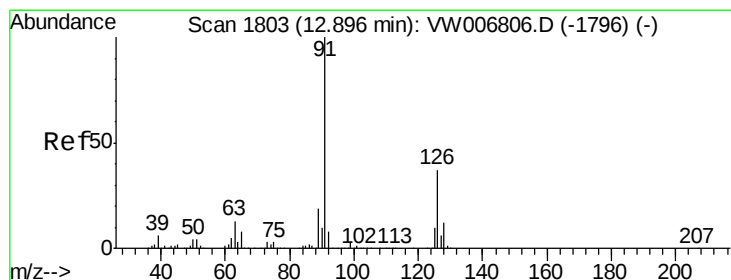
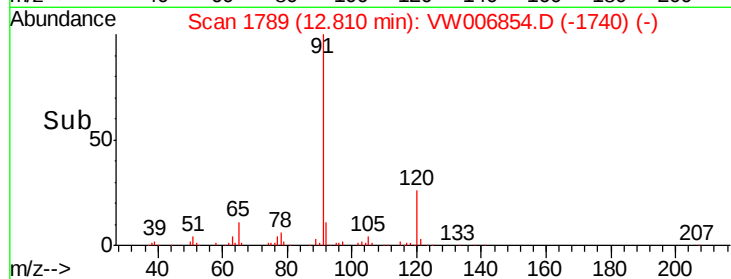
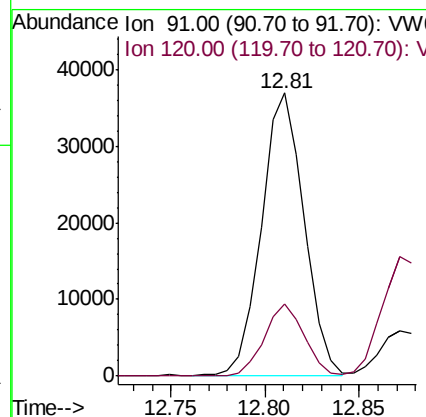
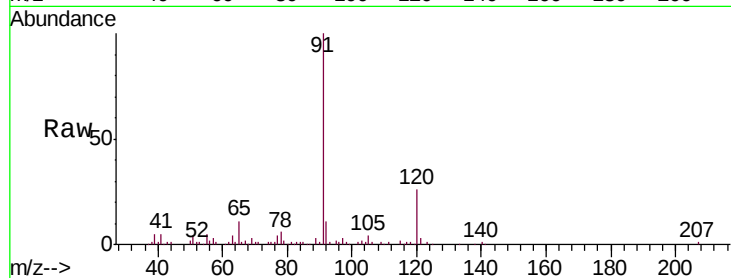




#78
n-propylbenzene
Concen: 2.495 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

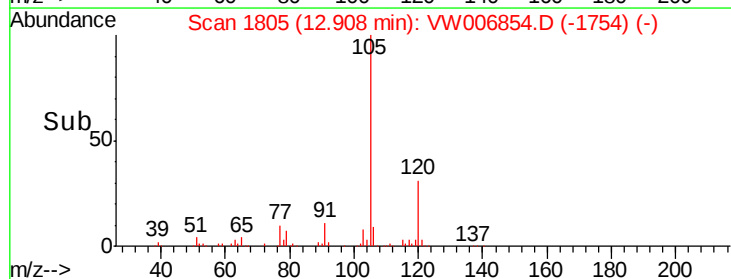
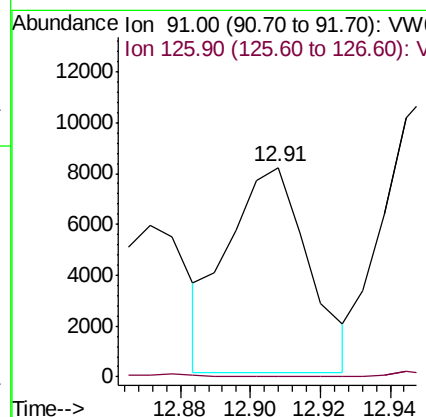
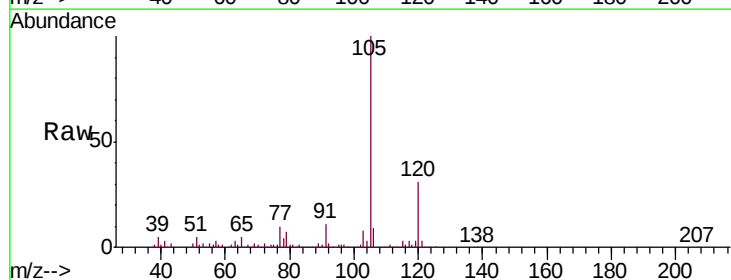
Instrument :
MSVOA_W
ClientSampleId :

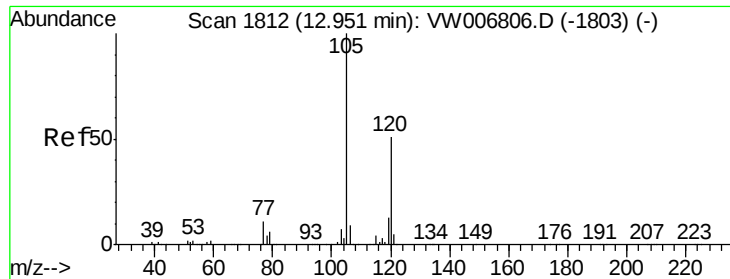
Tgt Ion: 91 Resp: 56983
Ion Ratio Lower Upper
91 100
120 24.3 12.4 37.4



#79
2-Chlorotoluene
Concen: 1.010 ug/l
RT: 12.91 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

Tgt Ion: 91 Resp: 12942
Ion Ratio Lower Upper
91 100
126 0.0 18.5 55.5#

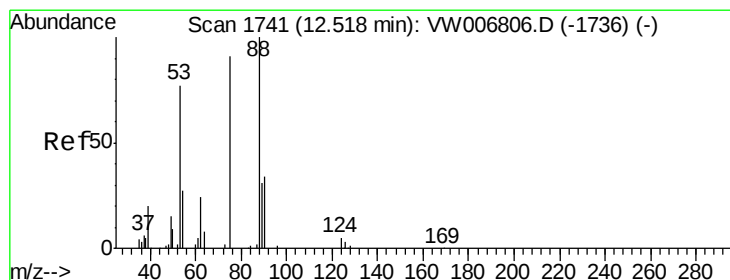
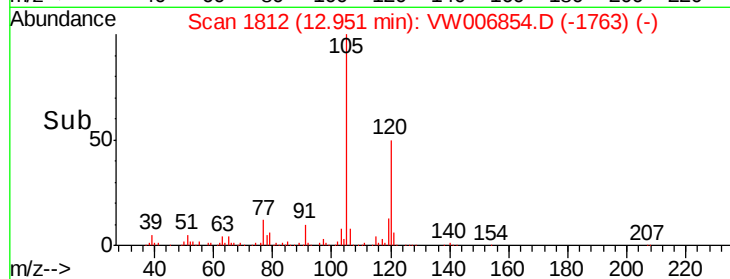
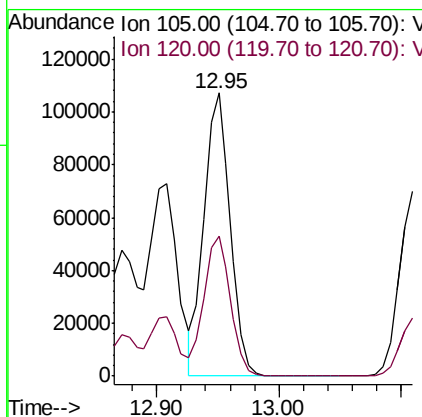
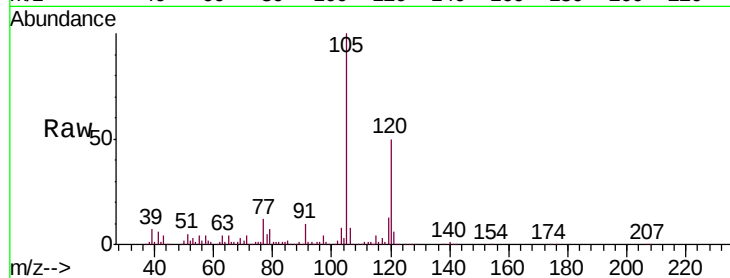




#80
 1,3,5-Trimethylbenzene
 Concen: 9.569 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

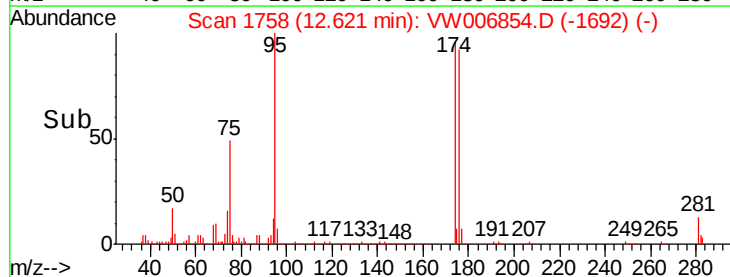
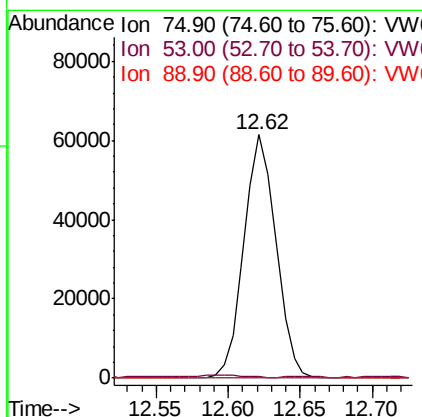
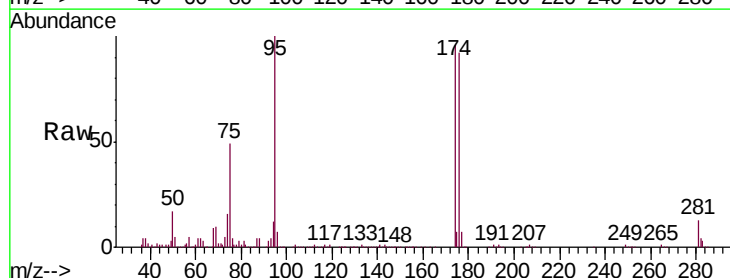
Instrument :
 MSVOA_W
 ClientSampleId :

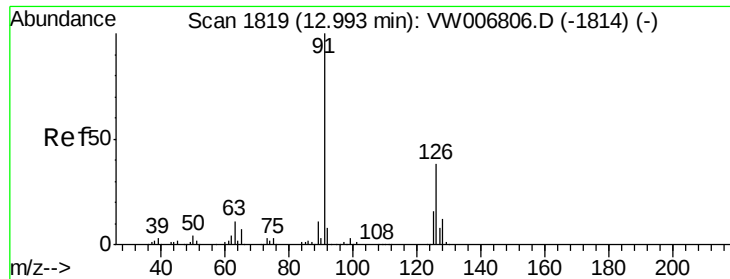
Tgt Ion: 105 Resp: 159206
 Ion Ratio Lower Upper
 105 100
 120 50.5 25.3 75.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 116.610 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

Tgt Ion: 75 Resp: 94720
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.9 109.3#
 89 0.1 38.7 58.1#





#82

4-Chlorotoluene

Concen: 1.207 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.04 min

Lab File: VW006854.D

Acq: 13 Nov 2018 15:12

Instrument :

MSVOA_W

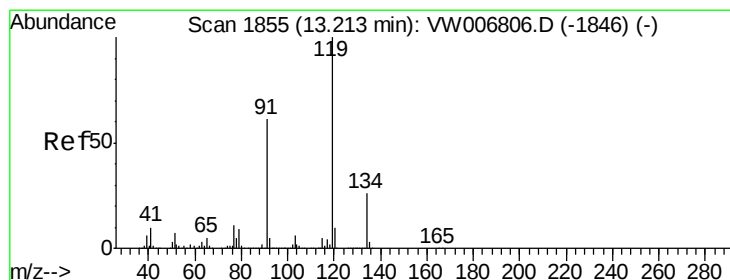
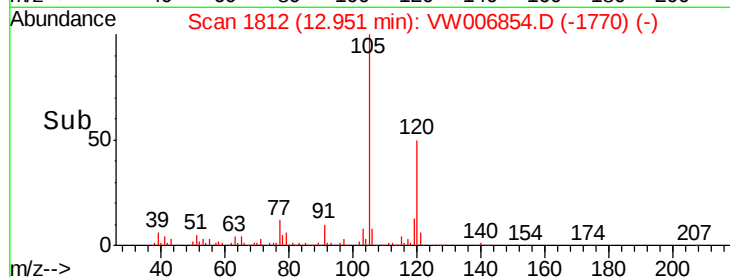
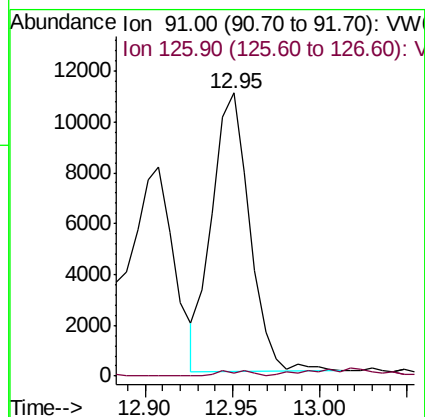
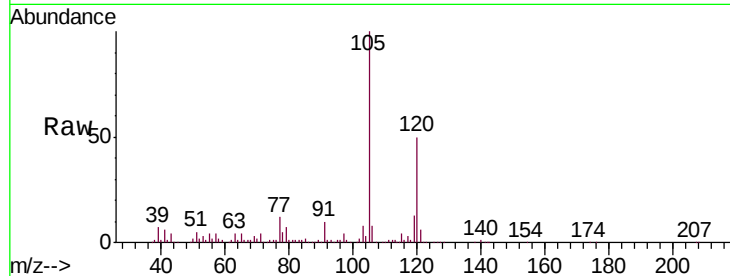
ClientSampleId :

Tgt Ion: 91 Resp: 16499

Ion Ratio Lower Upper

91 100

126 1.7 18.4 55.2#



#83

tert-Butylbenzene

Concen: 7.534 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.04 min

Lab File: VW006854.D

Acq: 13 Nov 2018 15:12

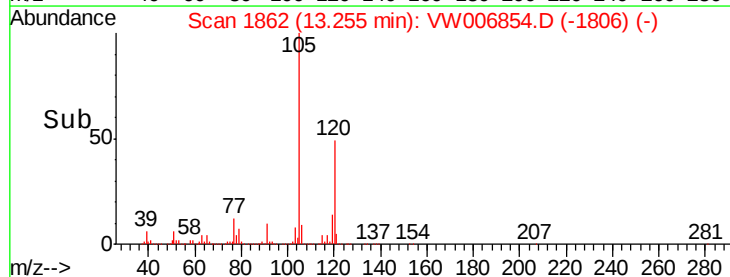
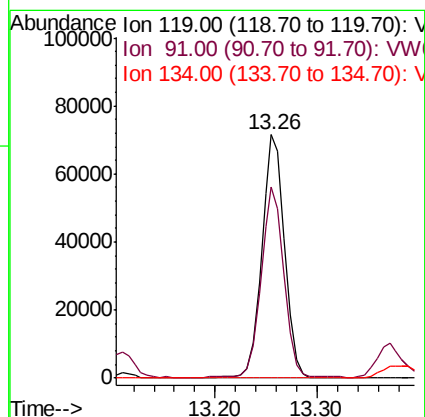
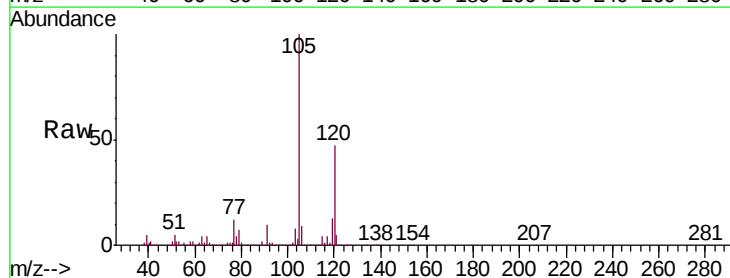
Tgt Ion: 119 Resp: 110802

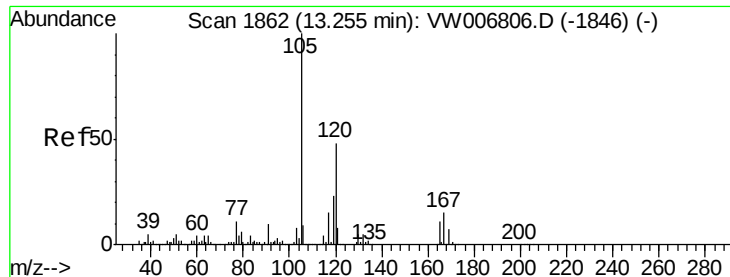
Ion Ratio Lower Upper

119 100

91 78.1 30.0 90.1

134 0.0 13.4 40.2#

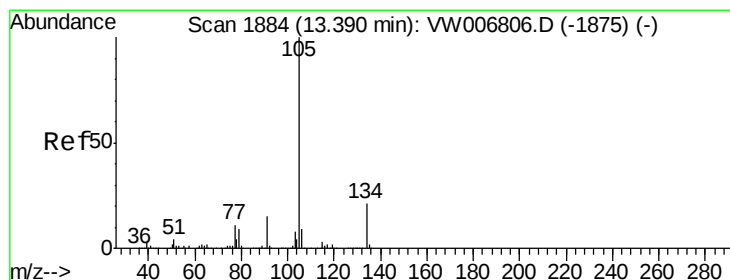
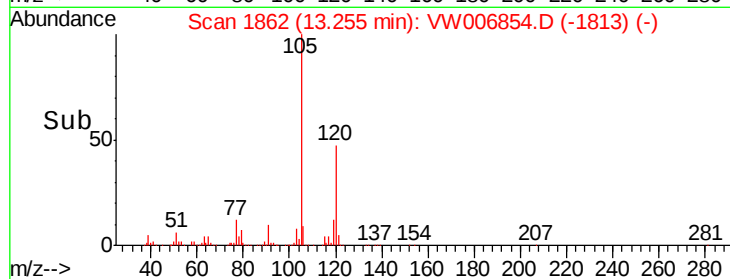
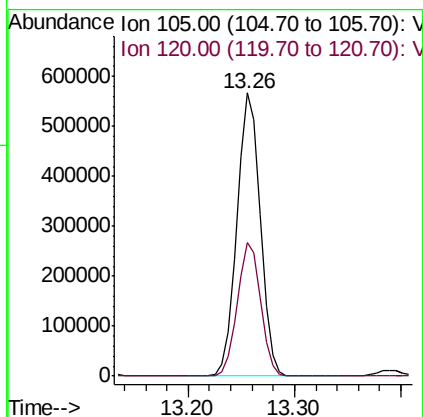
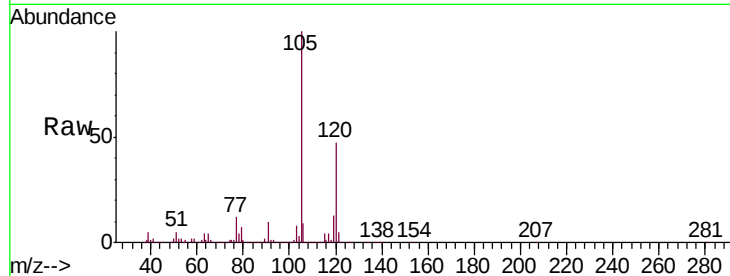




#84
 1,2,4-Trimethylbenzene
 Concen: 51.611 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

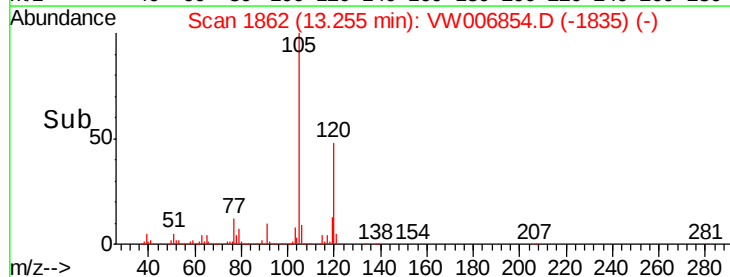
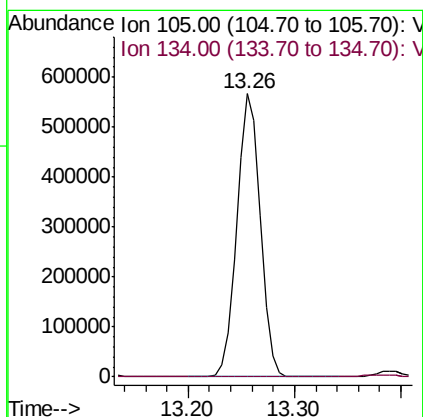
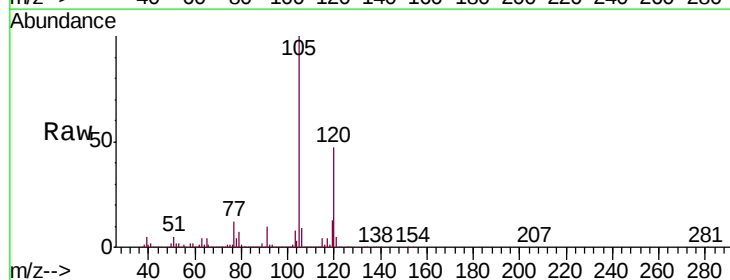
Instrument :
 MSVOA_W
 ClientSampleId :

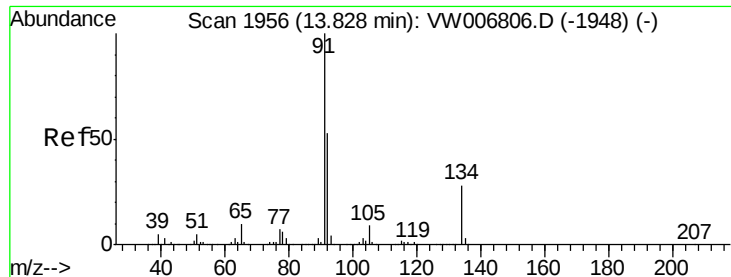
Tgt Ion:105 Resp: 873816
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.4 70.0



#85
 sec-Butylbenzene
 Concen: 41.932 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.13 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

Tgt Ion:105 Resp: 873816
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.7 31.9#

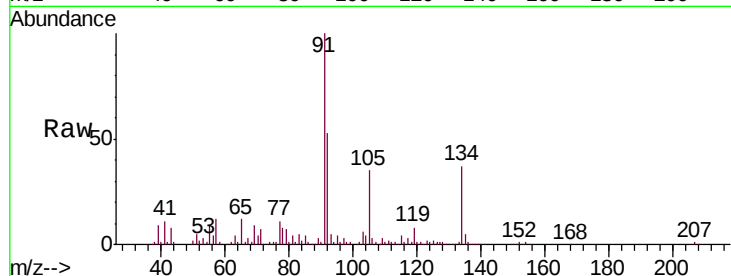




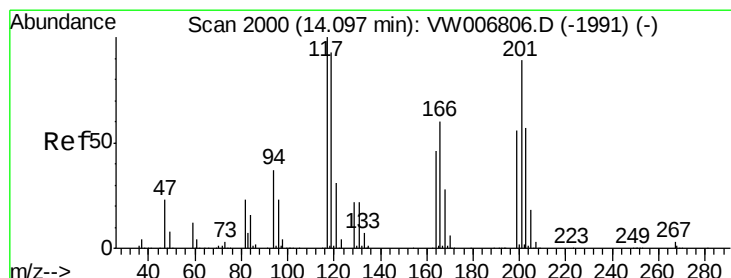
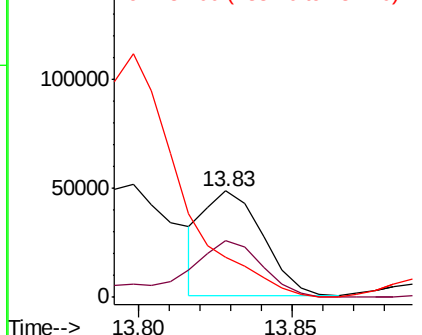
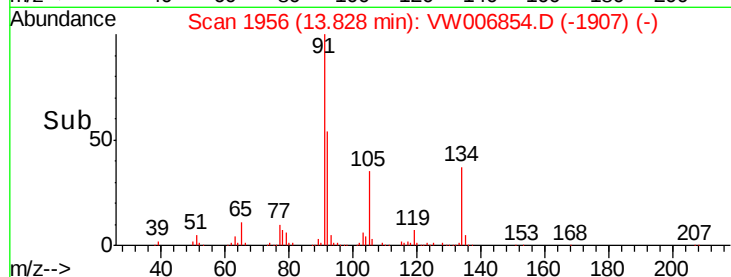
#89
n-Butylbenzene
Concen: 3.655 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

Instrument :
MSVOA_W
ClientSampled :

Tgt Ion: 91 Resp: 63312
Ion Ratio Lower Upper
91 100
92 75.6 26.5 79.4
134 0.0 14.4 43.2#

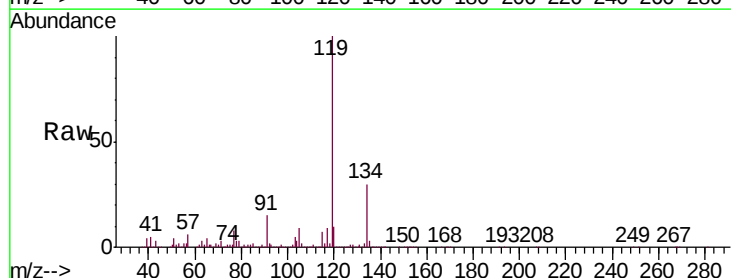


Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW
Ion 134.00 (133.70 to 134.70): V

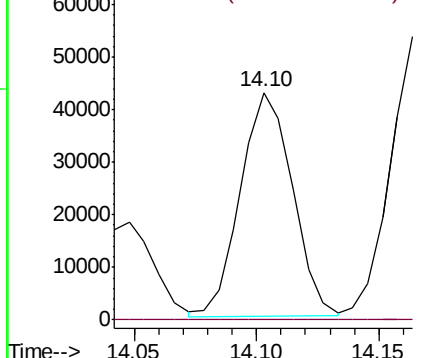
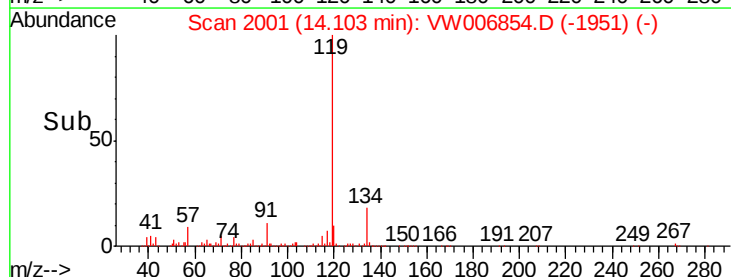


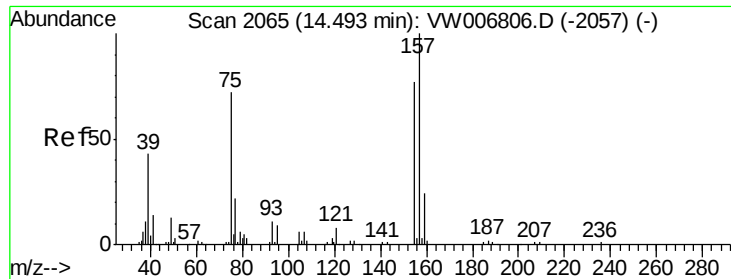
#90
Hexachloroethane
Concen: 20.690 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW006854.D
Acq: 13 Nov 2018 15:12

Tgt Ion: 117 Resp: 62754
Ion Ratio Lower Upper
117 100
201 0.0 46.9 140.6#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

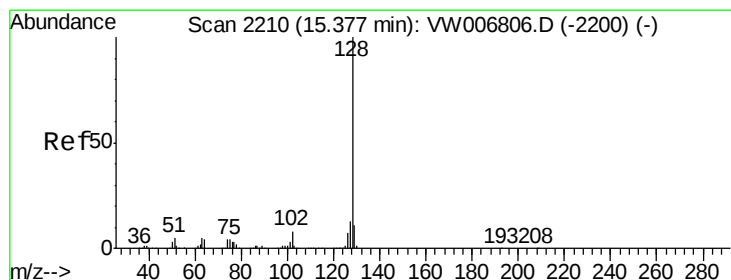
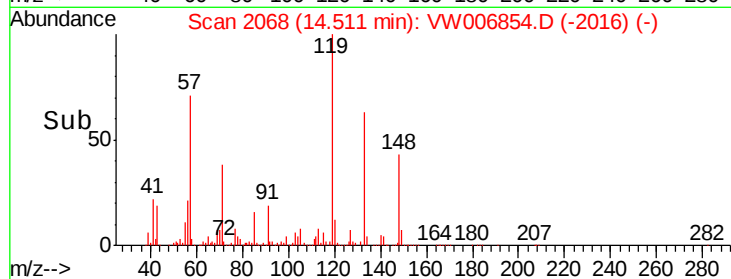
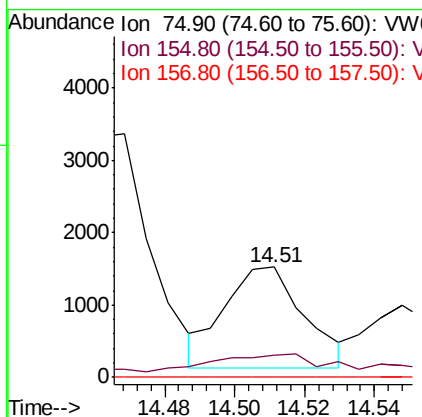
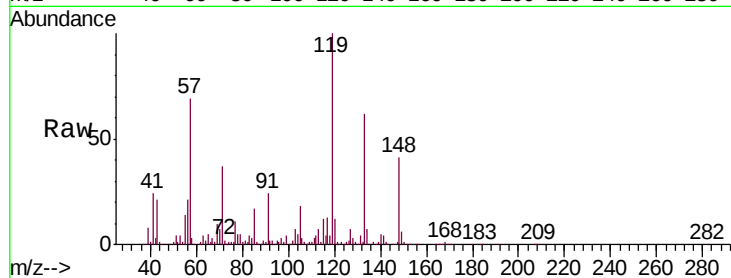




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.156 ug/l
 RT: 14.51 min Scan# 2068
 Delta R.T. 0.02 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

Instrument :
 MSVOA_W
 ClientSampled :

Tgt Ion: 75 Resp: 2210
 Ion Ratio Lower Upper
 75 100
 155 22.1 51.0 153.1#
 157 0.0 67.4 202.2#



#95
 Naphthalene
 Concen: 95.363 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. -0.00 min
 Lab File: VW006854.D
 Acq: 13 Nov 2018 15:12

Tgt Ion: 128 Resp: 932513
 Ion Ratio Lower Upper
 128 100
 127 15.9 10.3 15.5#
 129 11.5 8.6 13.0

