

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071718\
 Data File : VW004010.D
 Acq On : 18 Jul 2018 04:19
 Operator : VA/AP
 Sample : J3821-05RE
 Misc : 5.94G/5ML/MSVOA W/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-071218-CRE

Quant Time: Jul 18 04:54:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	157243	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	260804	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	73823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	67442	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	131448	74.79	ug/l	0.00
Spiked Amount			Recovery	=	149.58%	
35) Dibromofluoromethane	7.88	113	81104	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	10.33	98	52874	8.14	ug/l	0.00
Spiked Amount			Recovery	=	16.28%	
62) 4-Bromofluorobenzene	12.62	95	72123	30.80	ug/l	0.00
Spiked Amount			Recovery	=	61.60%	

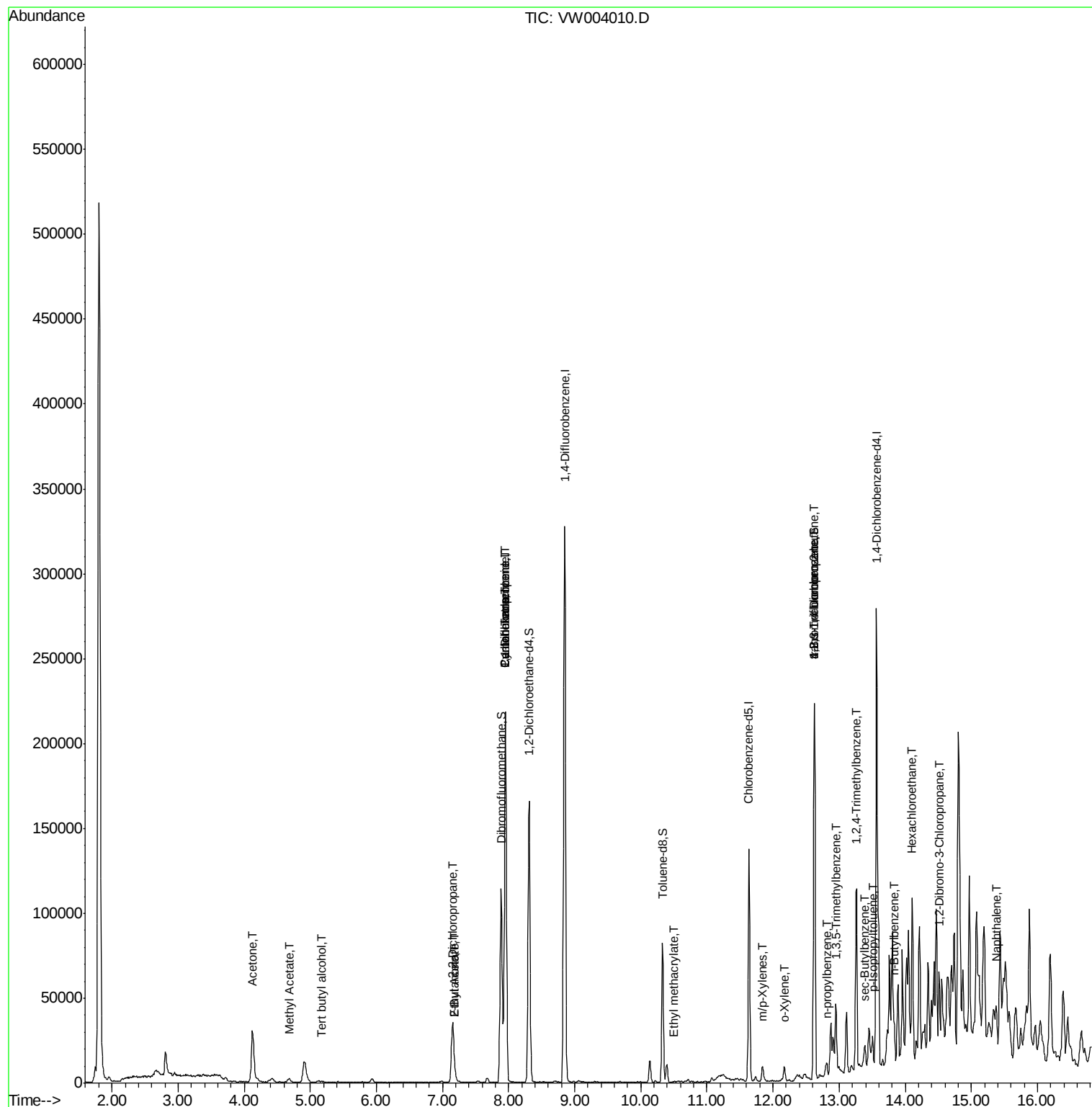
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.16	59	139	1.146	ug/l #	72
16) Acetone	4.12	43	52597	124.530	ug/l	99
18) Methyl Acetate	4.68	43	4087	4.031	ug/l	93
20) Methylene Chloride	4.91	84	10651	Below Cal		96
25) 2-Butanone	7.19	43	6829	12.015	ug/l	99
26) 2,2-Dichloropropane	7.15	77	2326	1.303	ug/l #	52
31) Cyclohexane	7.95	56	3949	1.354	ug/l #	13
36) 1,1-Dichloropropene	7.95	75	13516	5.037	ug/l #	49
37) Ethyl Acetate	7.19	43	6829	5.276	ug/l #	70
38) Carbon Tetrachloride	7.95	117	16161	6.446	ug/l #	18
56) Ethyl methacrylate	10.49	69	51	2.970	ug/l #	1
68) m/p-Xylenes	11.84	106	2404	2.281	ug/l	87
69) o-Xylene	12.18	106	2019	2.065	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	37581	56.129	ug/l #	100
78) n-propylbenzene	12.82	91	6027	1.031	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	15791	3.937	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	37581	124.156	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.26	105	59237	14.357	ug/l	98
85) sec-Butylbenzene	13.39	105	6528	1.307	ug/l	81
86) p-Isopropyltoluene	13.51	119	7951	1.814	ug/l	91
89) n-Butylbenzene	13.83	91	10962	2.545	ug/l #	80
90) Hexachloroethane	14.11	117	4856	6.011	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.52	75	204	1.245	ug/l #	14
95) Naphthalene	15.38	128	7240	2.752	ug/l #	93

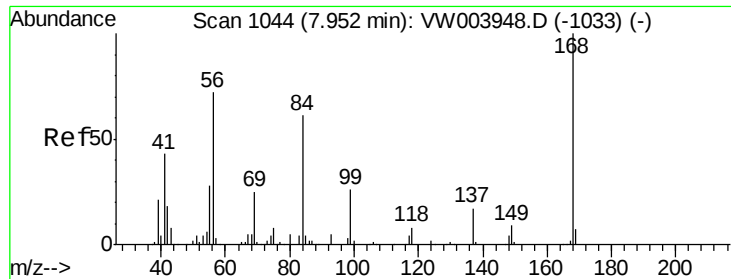
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 16 15:06:12 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

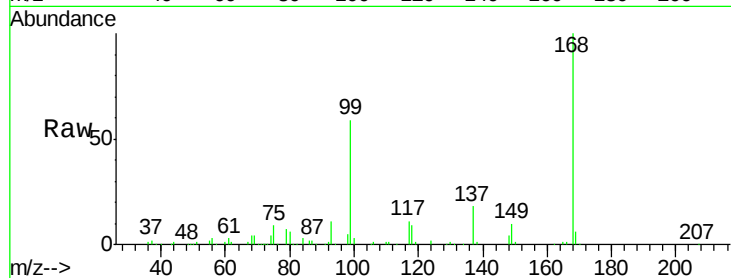
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-CRE

Tot Ion:168 Resp: 157243

Ion Ratio Lower Upper

168 100

99 59.5 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

40000

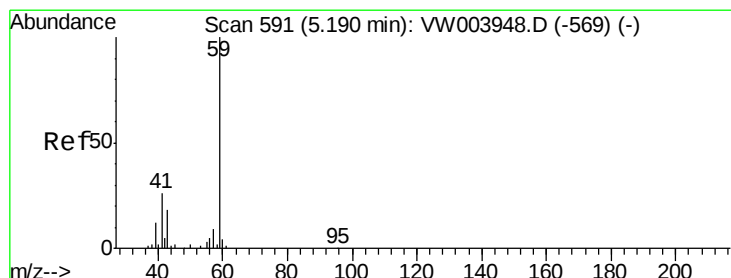
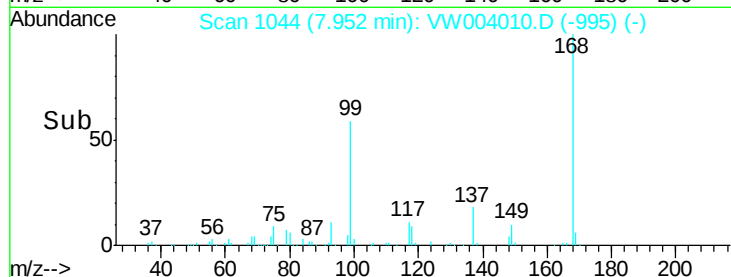
20000

0

7.90

8.00

Time-->



#11

Tert butyl alcohol

Concen: 1.146 ug/l

RT: 5.16 min Scan# 586

Delta R.T. -0.03 min

Lab File: VW004010.D

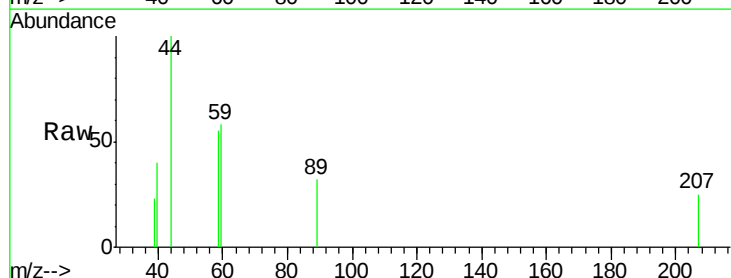
Acq: 18 Jul 2018 04:19

Tgt Ion: 59 Resp: 139

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16

300

200

100

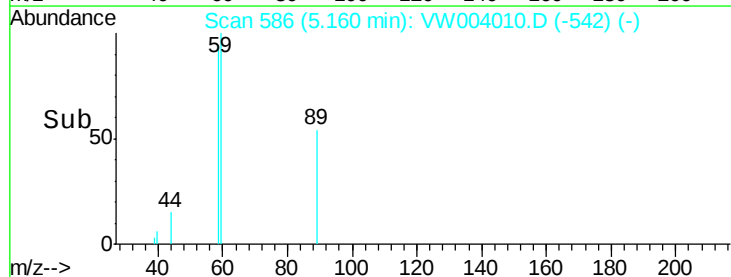
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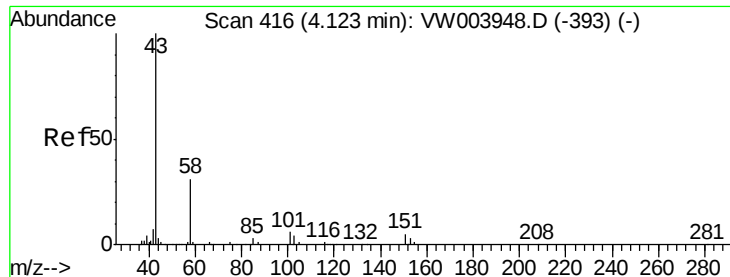
5.15

5.16

5.17

Time-->





#16

Acetone

Concen: 124.530 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

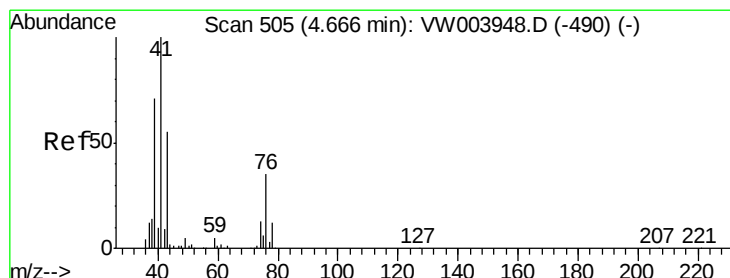
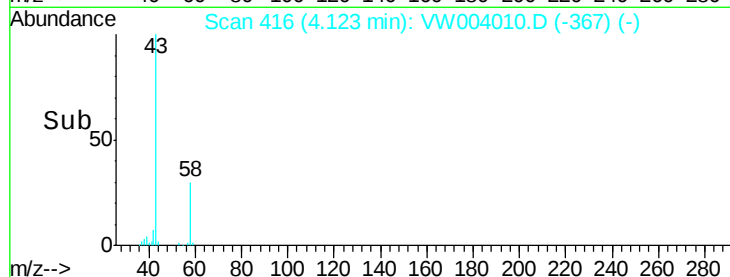
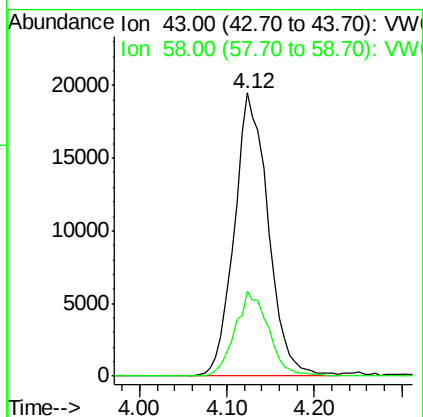
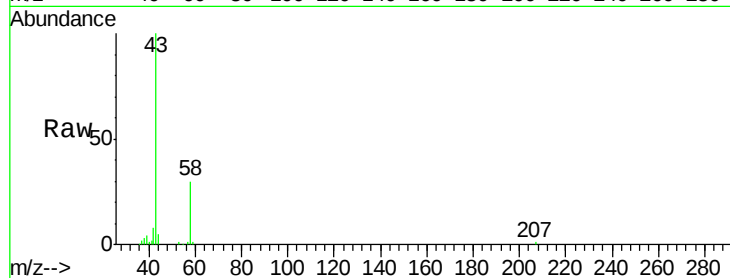
HR-05-071218-CRE

Tot Ion: 43 Resp: 52597

Ion Ratio Lower Upper

43 100

58 30.3 24.5 36.7



#18

Methyl Acetate

Concen: 4.031 ug/l

RT: 4.68 min Scan# 508

Delta R.T. 0.02 min

Lab File: VW004010.D

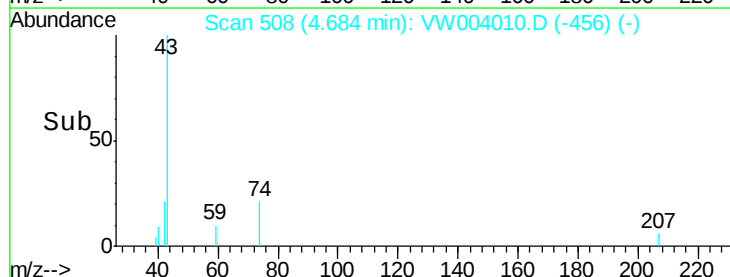
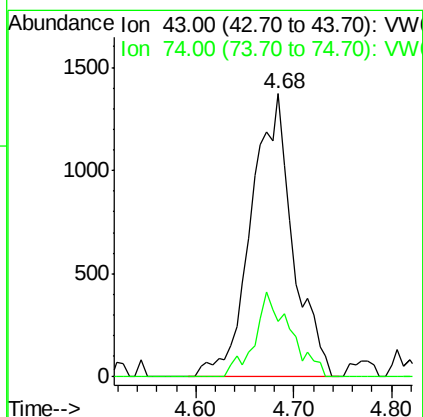
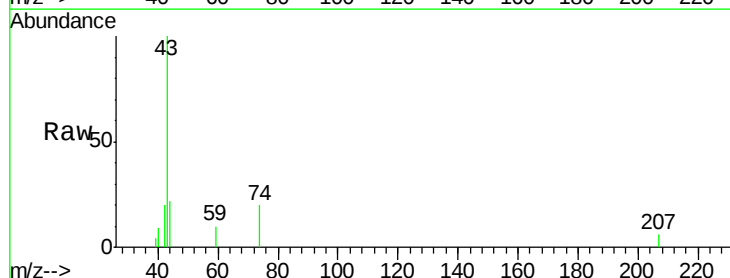
Acq: 18 Jul 2018 04:19

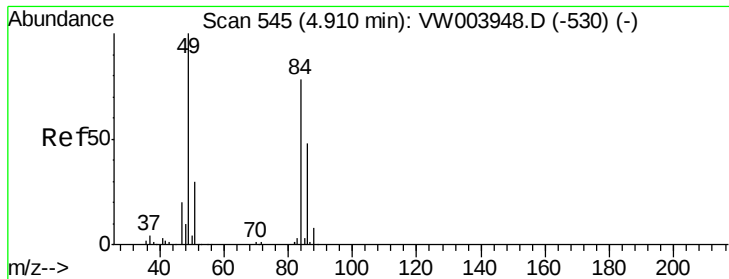
Tgt Ion: 43 Resp: 4087

Ion Ratio Lower Upper

43 100

74 25.6 17.7 26.5

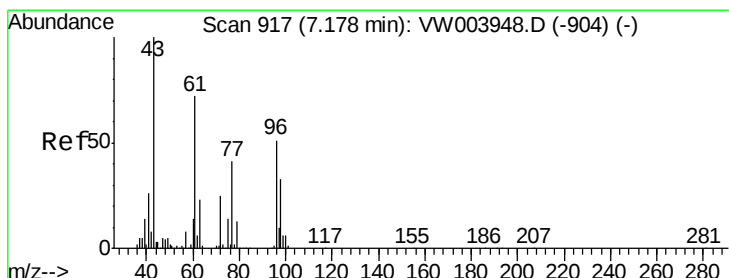
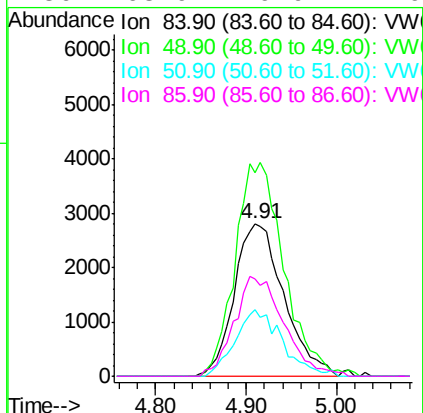
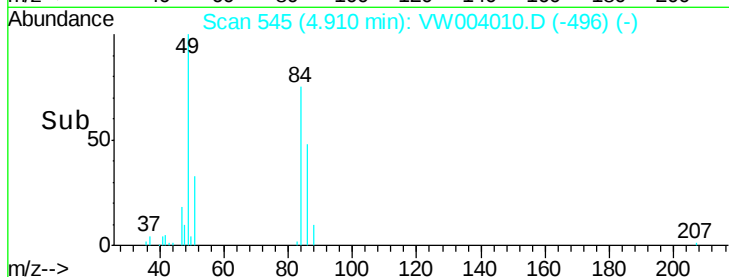
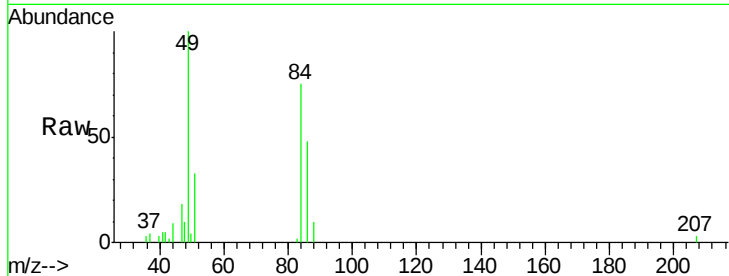




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

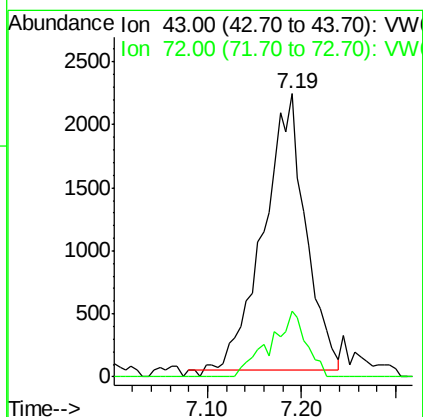
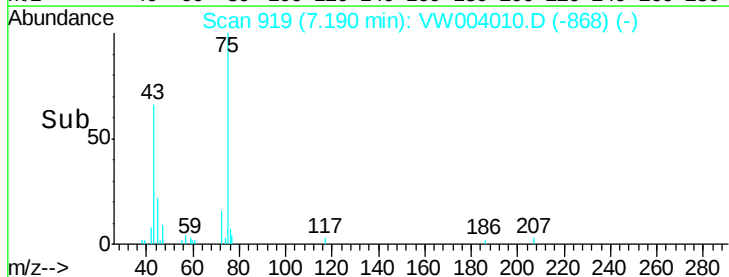
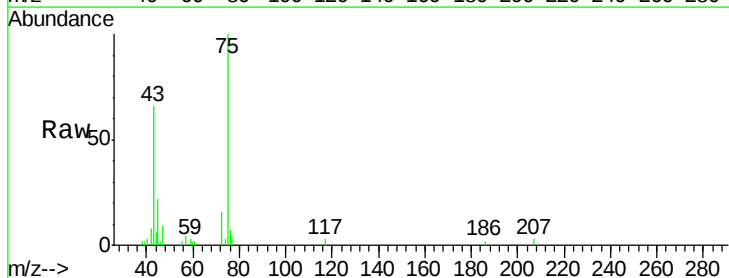
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-CRE

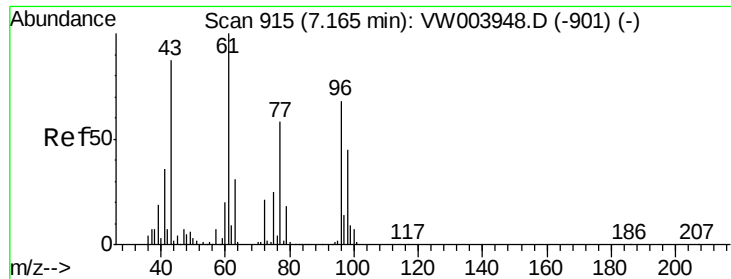
Tot Ion: 84 Resp: 10651
Ion Ratio Lower Upper
84 100
49 133.3 102.9 154.3
51 43.4 30.9 46.3
86 63.9 49.9 74.9



#25
2-Butanone
Concen: 12.015 ug/l
RT: 7.19 min Scan# 919
Delta R.T. 0.01 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

Tgt Ion: 43 Resp: 6829
Ion Ratio Lower Upper
43 100
72 24.0 19.8 29.6





#26

2,2-Dichloropropane

Concen: 1.303 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.01 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

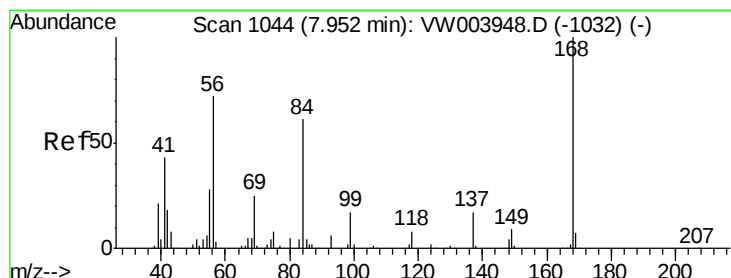
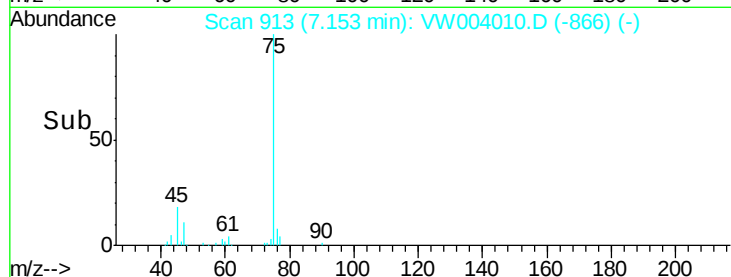
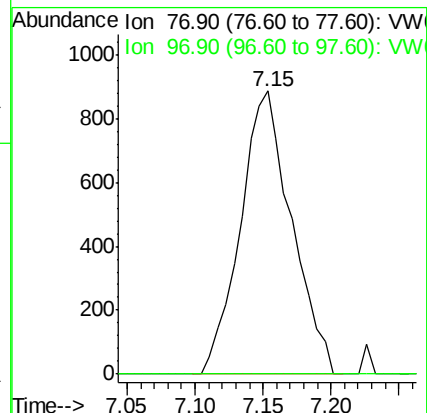
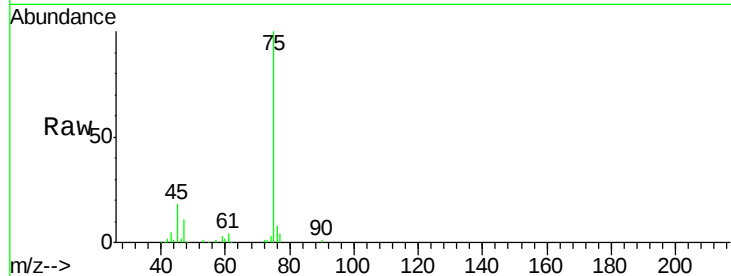
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-CRE

Tot Ion: 77 Resp: 2326

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.3#



#31

Cyclohexane

Concen: 1.354 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

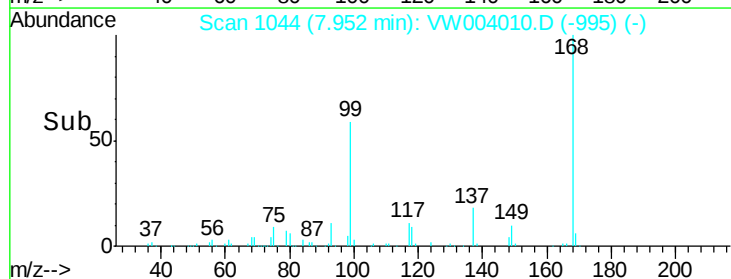
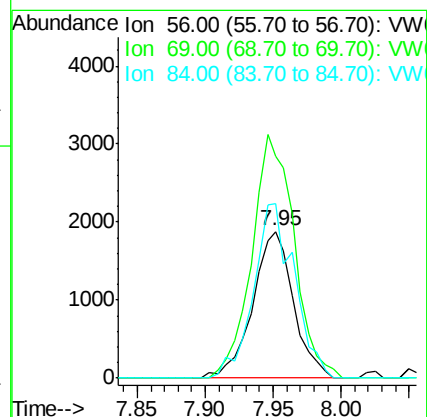
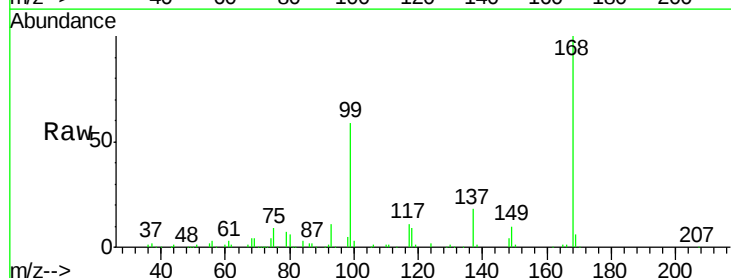
Tgt Ion: 56 Resp: 3949

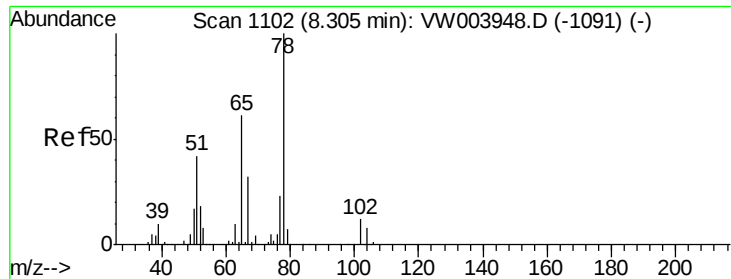
Ion Ratio Lower Upper

56 100

69 151.8 27.8 41.8#

84 119.4 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 74.786 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

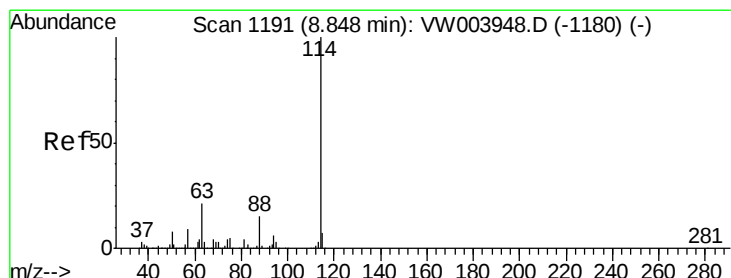
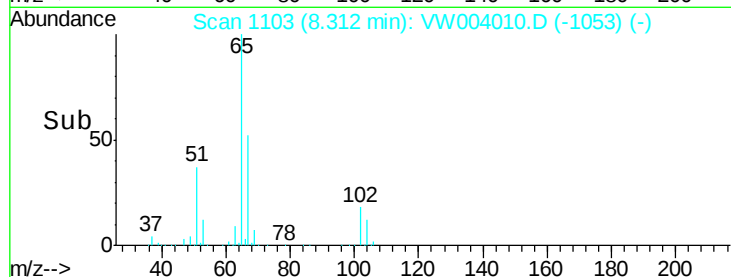
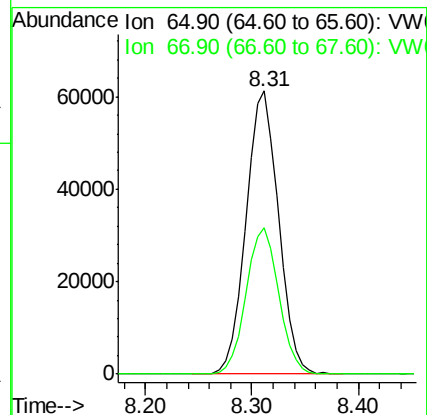
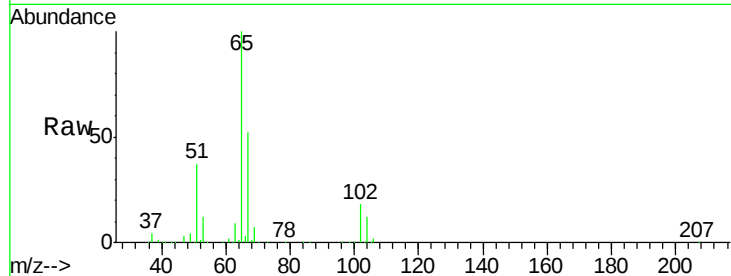
HR-05-071218-CRE

Tot Ion: 65 Resp: 131448

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

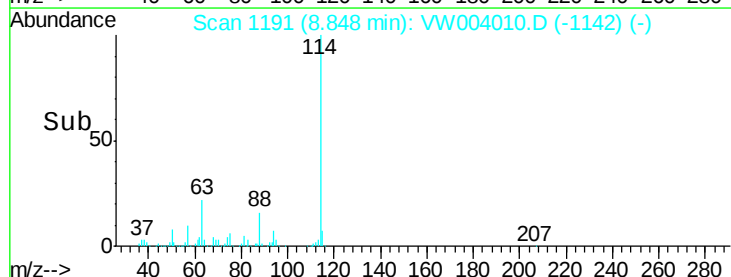
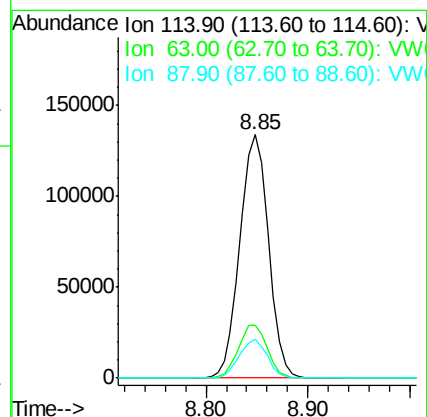
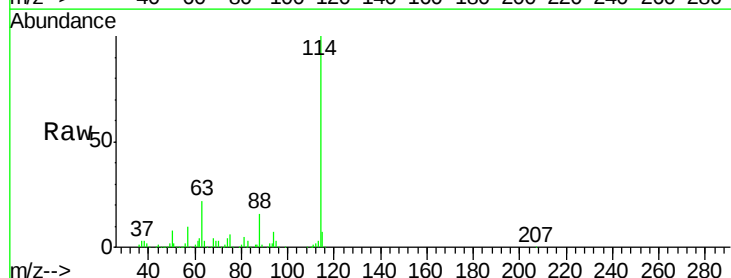
Tgt Ion: 114 Resp: 260804

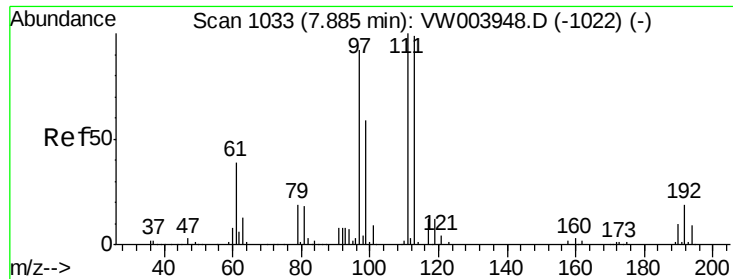
Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.8

88 15.9 0.0 30.4

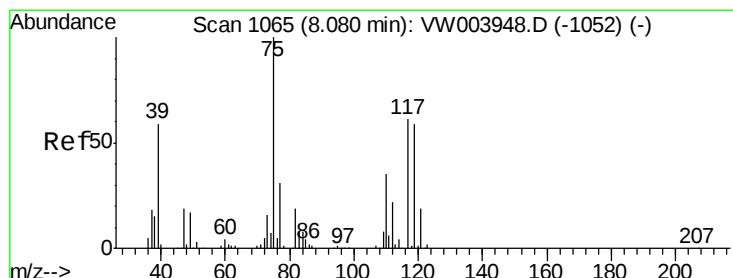
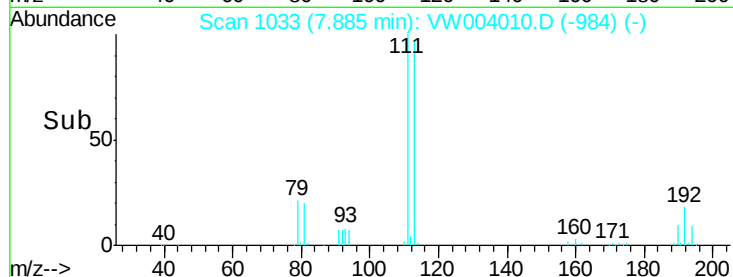
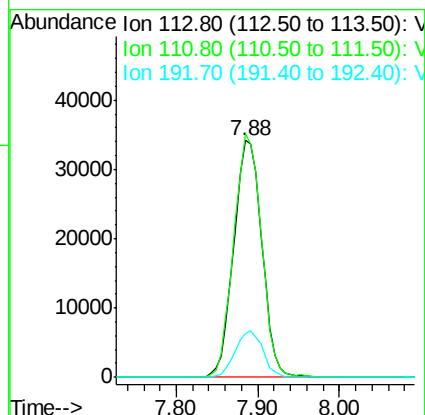
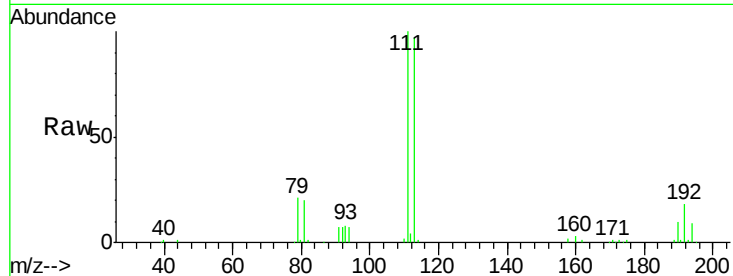




#35
 Dibromofluoromethane
 Concen: 48.467 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: VW004010.D
 Acq: 18 Jul 2018 04:19

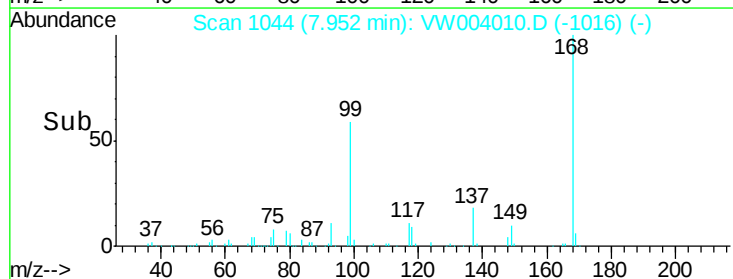
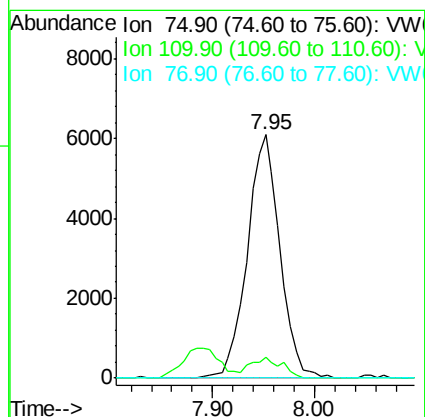
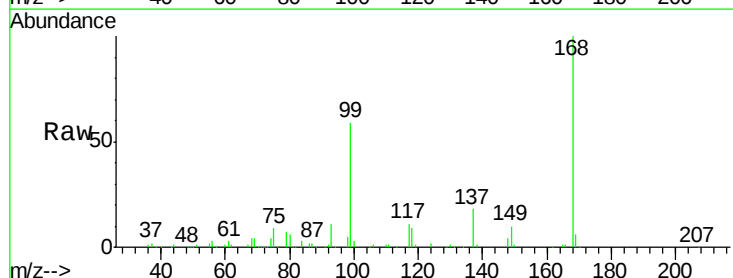
Instrument :
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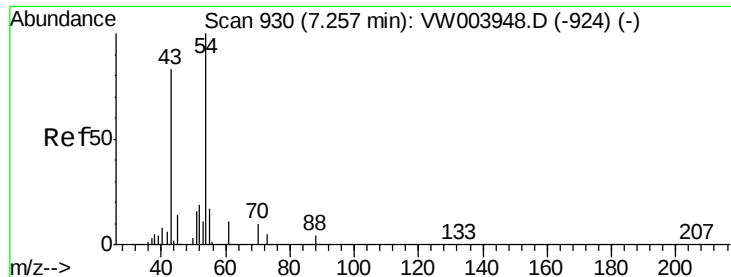
Tot Ion:113 Resp: 81104
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.3 121.9
 192 19.3 15.8 23.6



#36
 1,1-Dichloropropene
 Concen: 5.037 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.13 min
 Lab File: VW004010.D
 Acq: 18 Jul 2018 04:19

Tgt Ion: 75 Resp: 13516
 Ion Ratio Lower Upper
 75 100
 110 8.0 17.0 51.0#
 77 0.0 24.9 37.3#

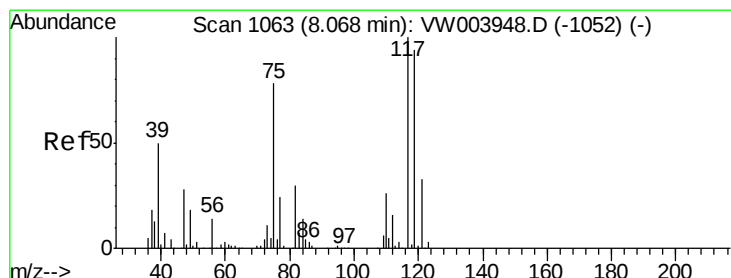
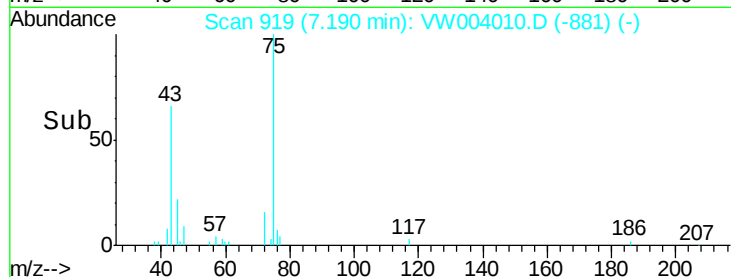
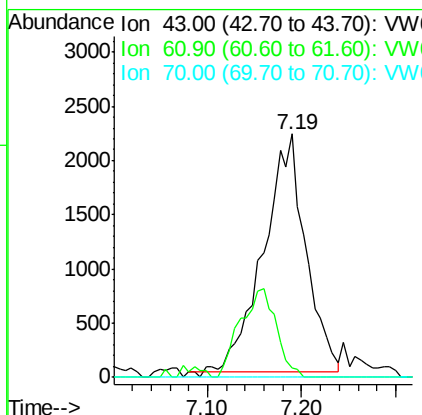
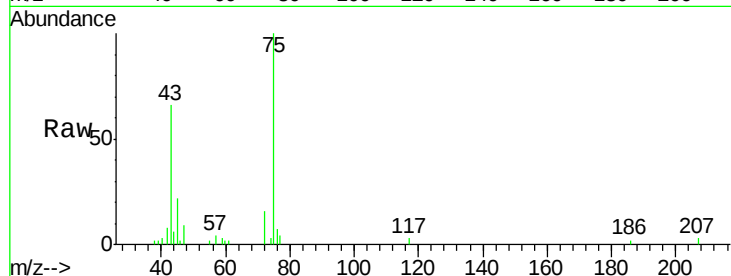




#37
Ethyl Acetate
Concen: 5.276 ug/l
RT: 7.19 min Scan# 919
Delta R.T. -0.07 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

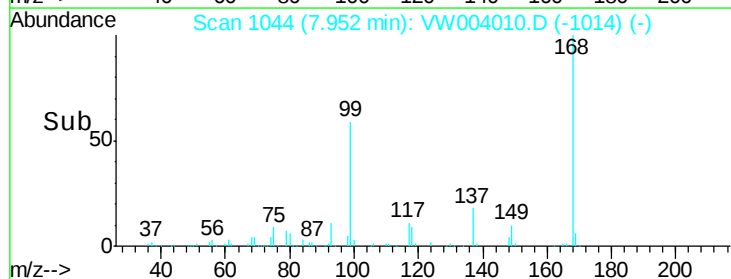
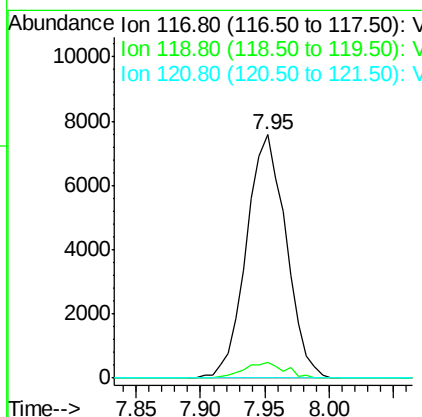
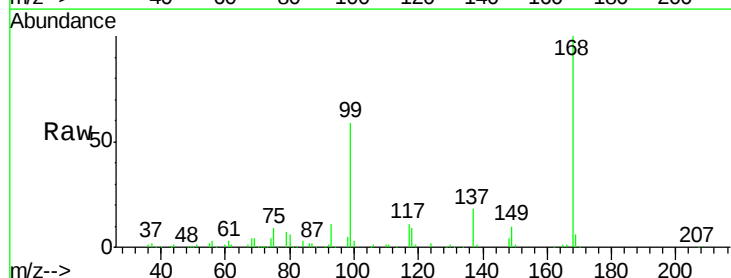
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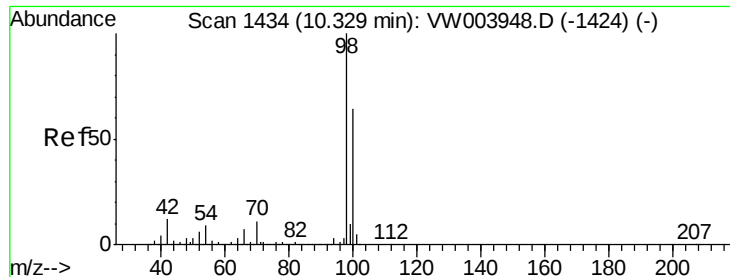
Tot Ion: 43 Resp: 6829
Ion Ratio Lower Upper
43 100
61 0.0 10.7 16.1#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.446 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.12 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

Tgt Ion: 117 Resp: 16161
Ion Ratio Lower Upper
117 100
119 6.5 75.3 112.9#
121 0.0 26.0 39.0#





#50

Toluene-d8

Concen: 8.143 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

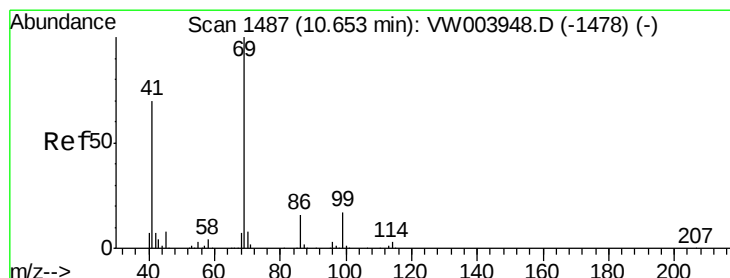
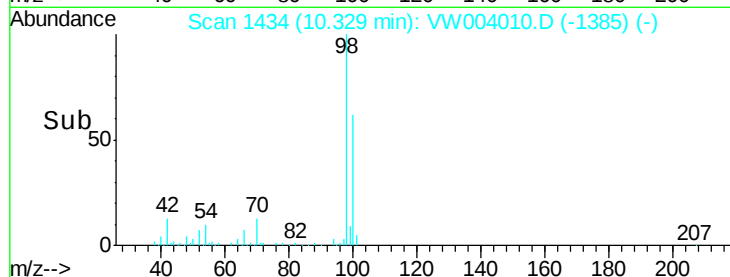
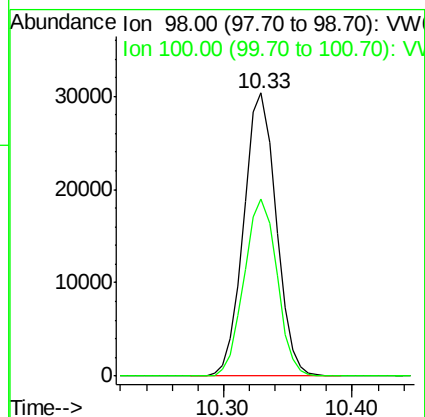
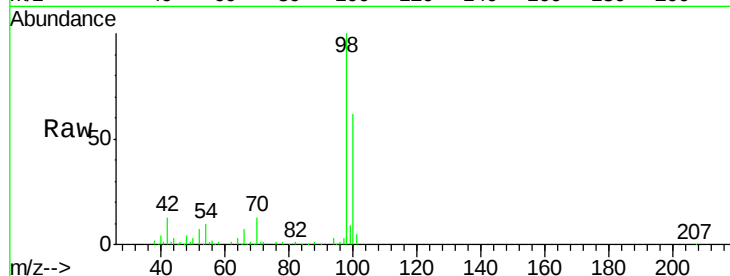
HR-05-071218-CRE

Tot Ion: 98 Resp: 52874

Ion Ratio Lower Upper

98 100

100 63.2 51.2 76.8



#56

Ethyl methacrylate

Concen: 2.970 ug/l

RT: 10.49 min Scan# 1461

Delta R.T. -0.16 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

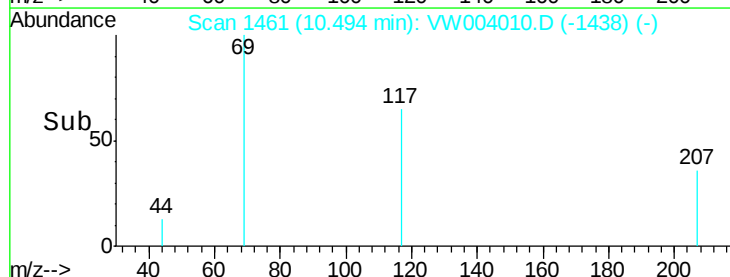
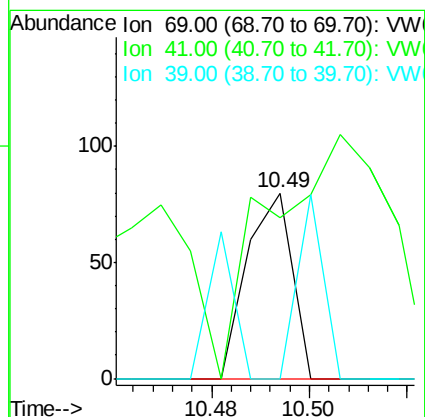
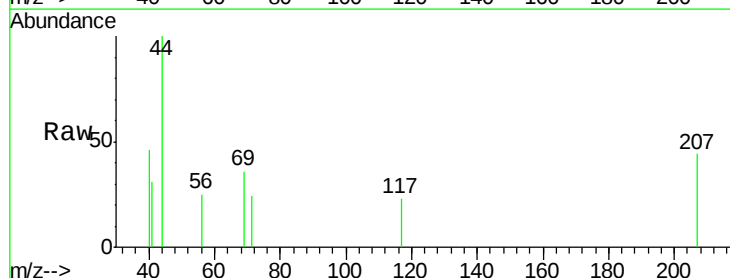
Tgt Ion: 69 Resp: 51

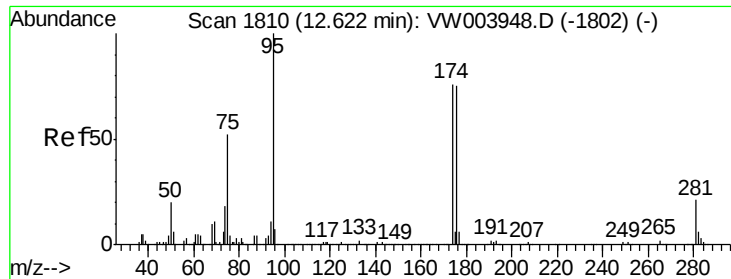
Ion Ratio Lower Upper

69 100

41 349.0 56.5 84.7#

39 56.9 30.2 45.4#

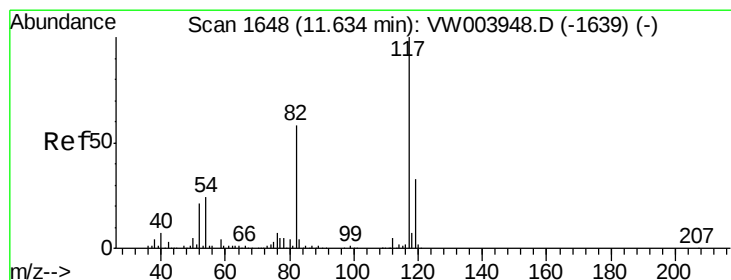
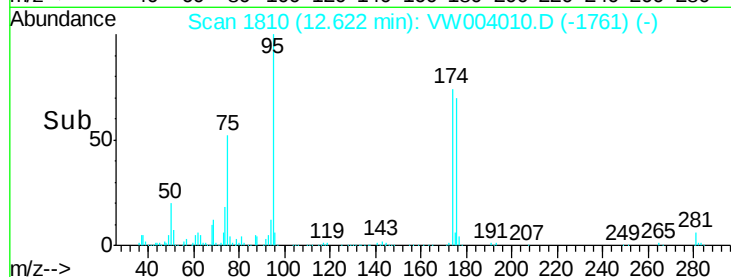
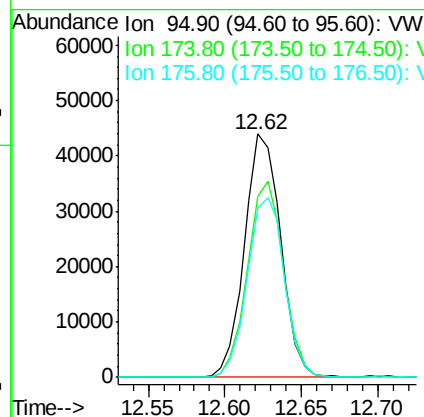
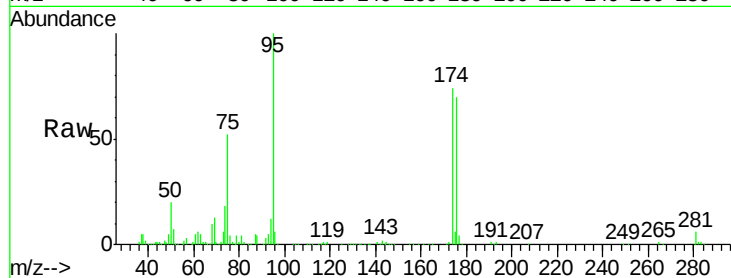




#62
4-Bromofluorobenzene
Concen: 30.803 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

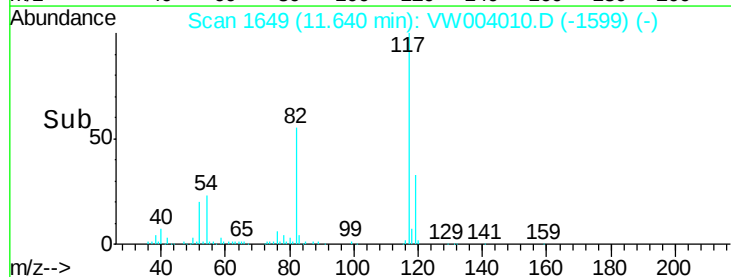
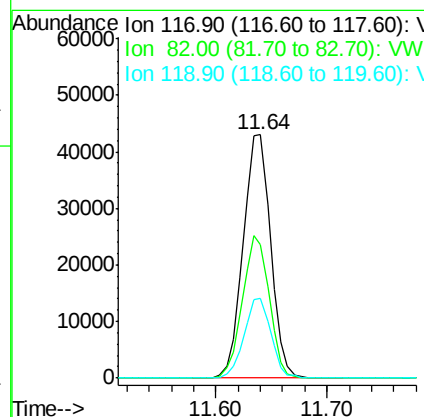
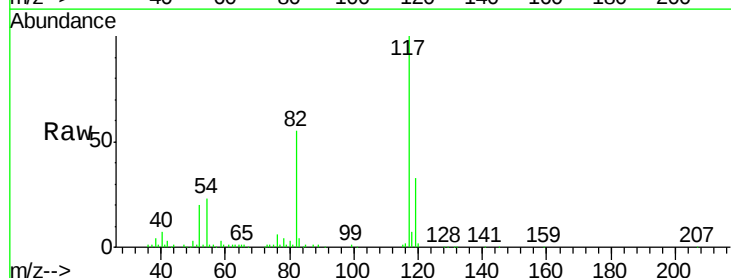
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-CRE

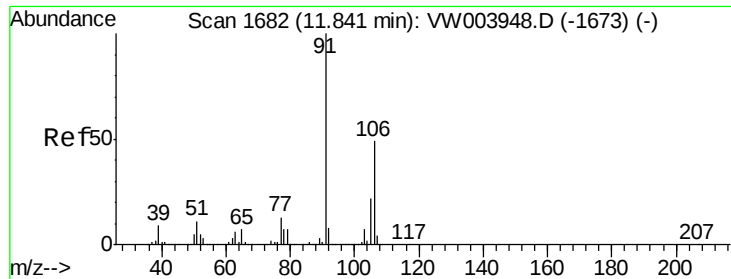
Tot Ion: 95 Resp: 72123
Ion Ratio Lower Upper
95 100
174 80.6 0.0 160.2
176 76.1 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. 0.01 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

Tgt Ion: 117 Resp: 73823
Ion Ratio Lower Upper
117 100
82 54.6 46.5 69.7
119 32.5 26.2 39.2

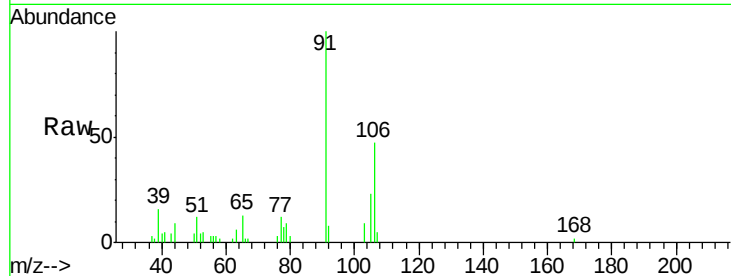




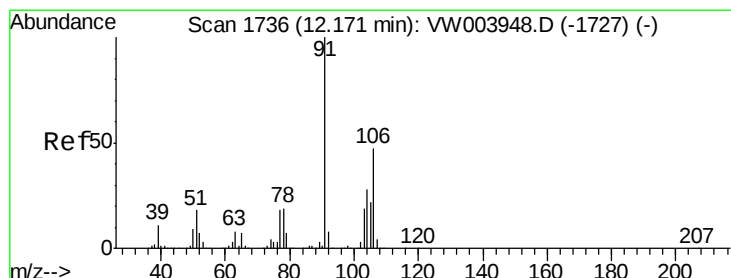
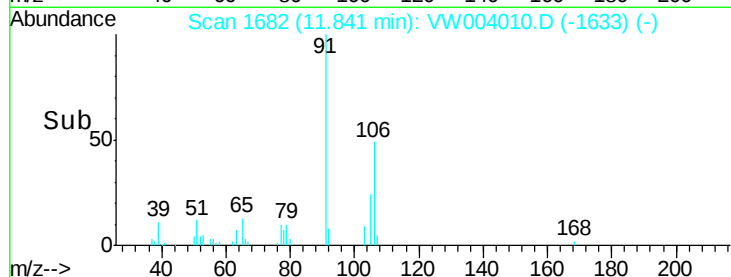
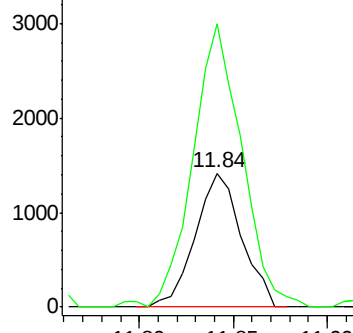
#68
m/p-Xylenes
Concen: 2.281 ug/l
RT: 11.84 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-CRE

Tot Ion:106 Resp: 2404
Ion Ratio Lower Upper
106 100
91 224.8 164.2 246.2

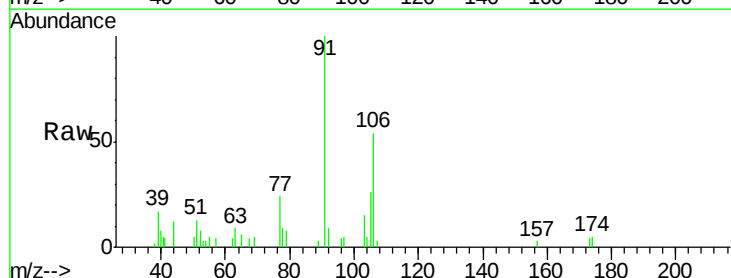


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

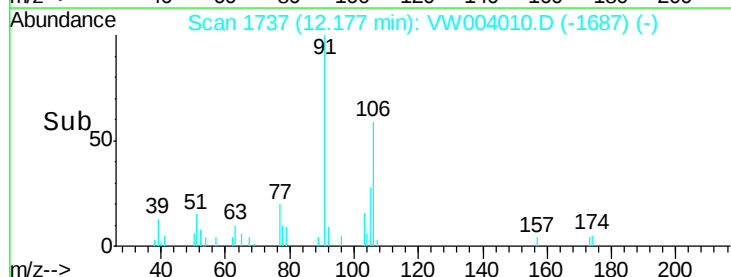
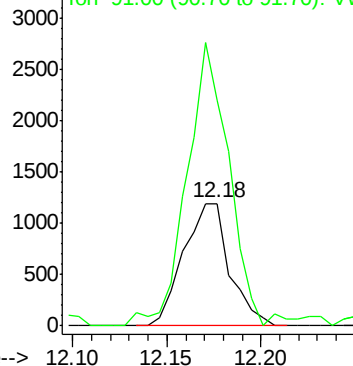


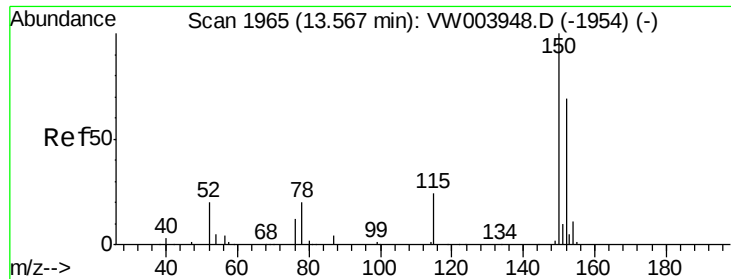
#69
o-Xylene
Concen: 2.065 ug/l
RT: 12.18 min Scan# 1737
Delta R.T. 0.01 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

Tgt Ion:106 Resp: 2019
Ion Ratio Lower Upper
106 100
91 212.4 107.5 322.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

HR-05-071218-CRE

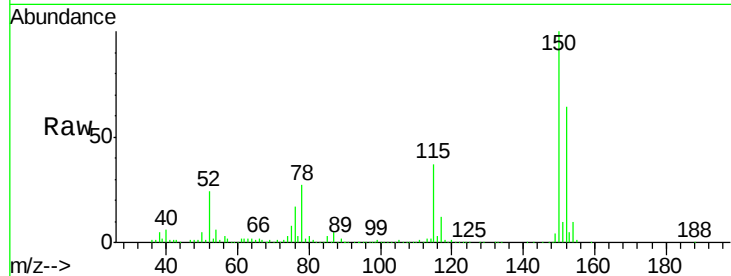
Tot Ion:152 Resp: 67442

Ion Ratio Lower Upper

152 100

115 60.9 29.2 87.6

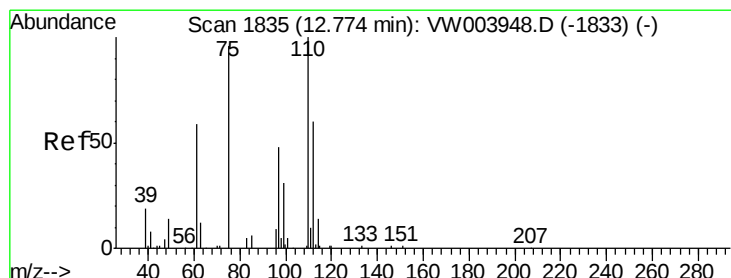
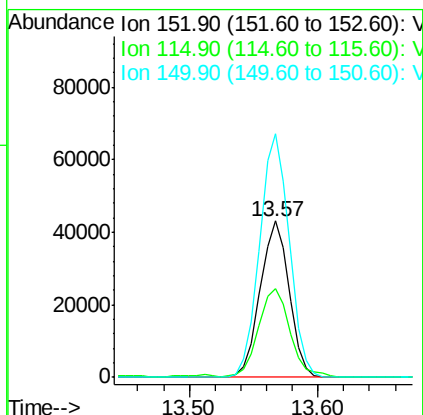
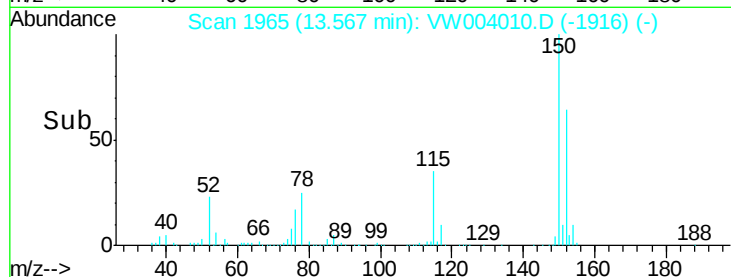
150 157.8 0.0 345.2



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



#76

1,2,3-Trichloropropane

Concen: 56.129 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004010.D

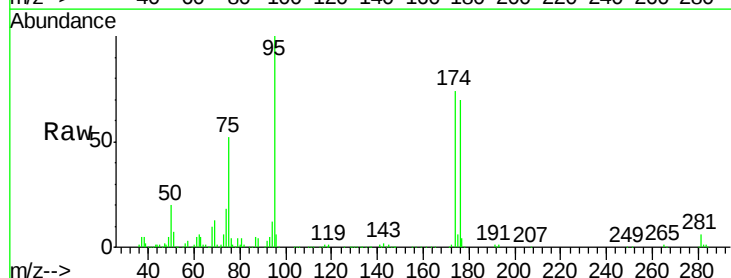
Acq: 18 Jul 2018 04:19

Tgt Ion: 75 Resp: 37581

Ion Ratio Lower Upper

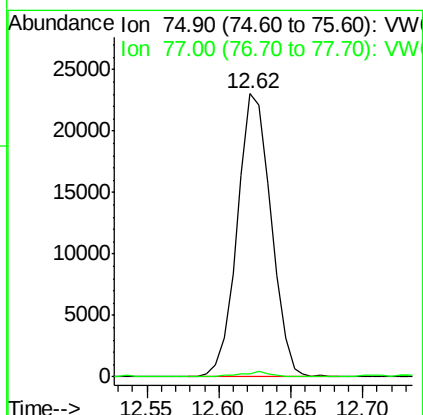
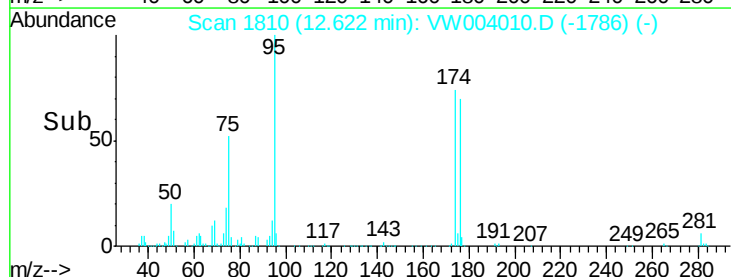
75 100

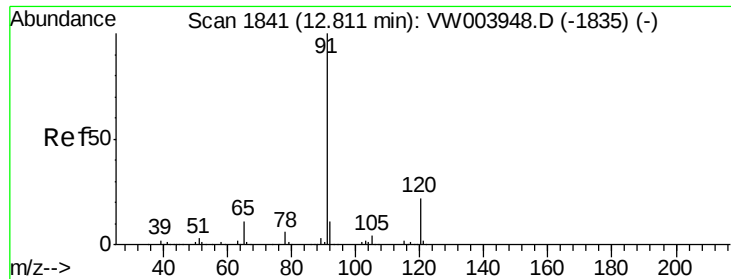
77 2.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 1.031 ug/l

RT: 12.82 min Scan# 1842

Delta R.T. 0.01 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

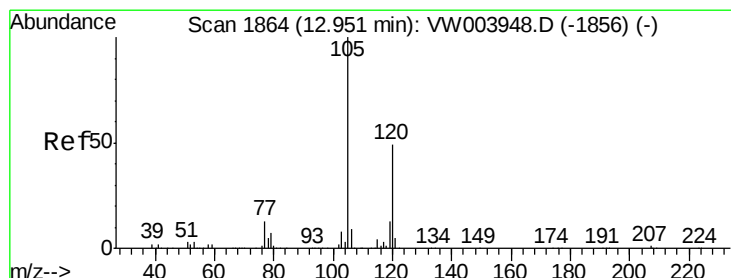
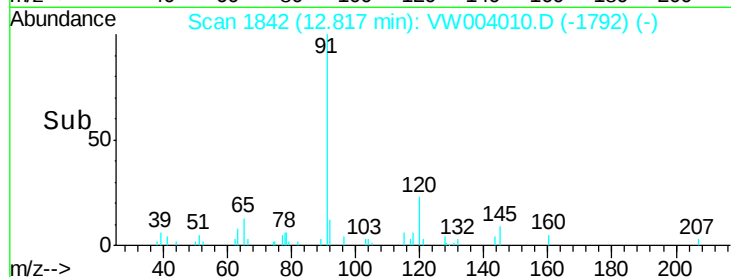
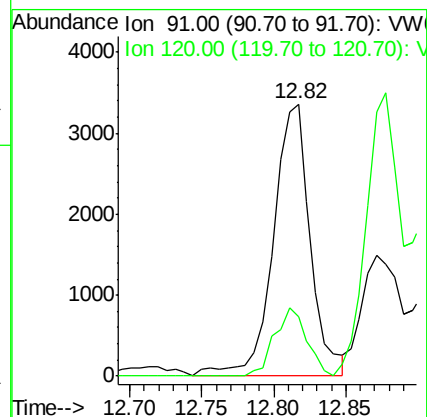
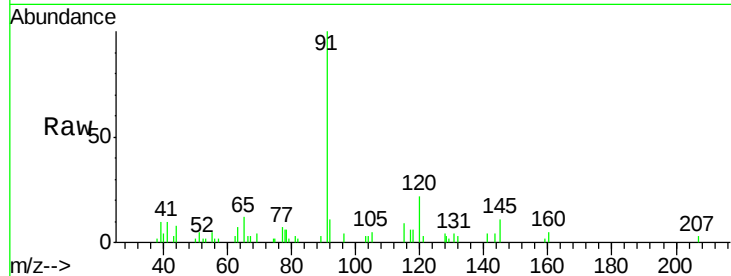
HR-05-071218-CRE

Tot Ion: 91 Resp: 6027

Ion Ratio Lower Upper

91 100

120 21.8 11.2 33.6



#80

1,3,5-Trimethylbenzene

Concen: 3.937 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VW004010.D

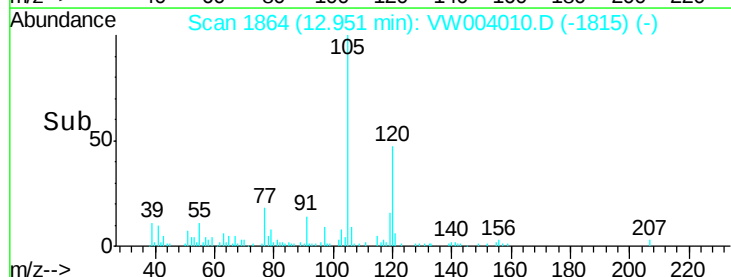
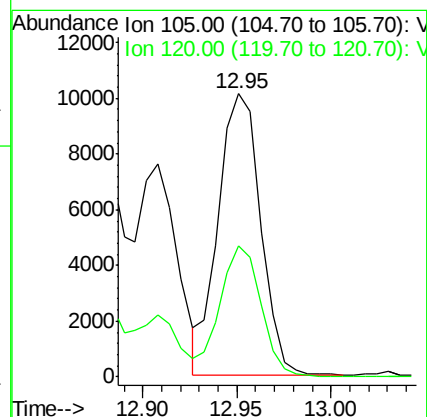
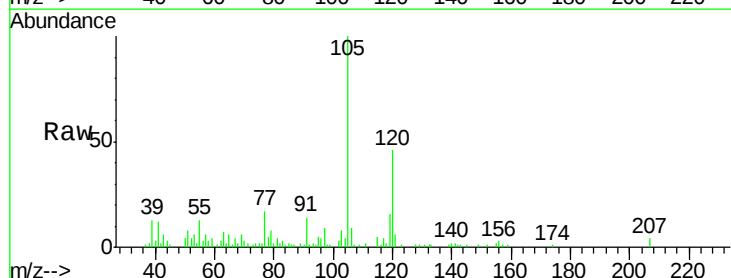
Acq: 18 Jul 2018 04:19

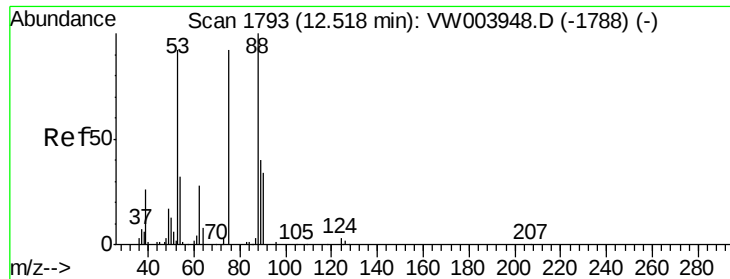
Tgt Ion: 105 Resp: 15791

Ion Ratio Lower Upper

105 100

120 45.2 24.4 73.2

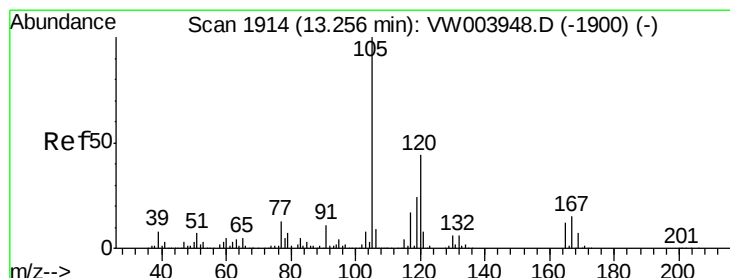
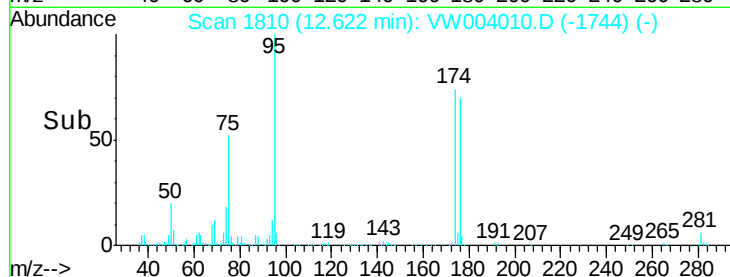
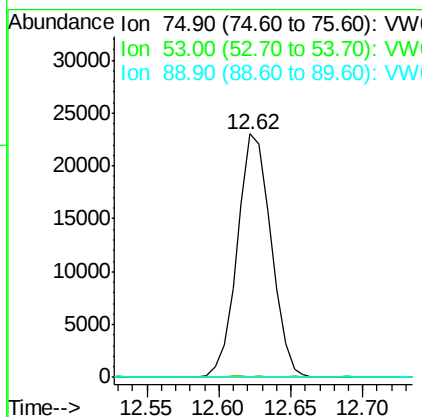
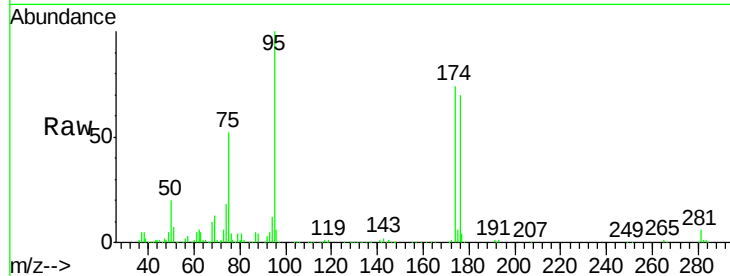




#81
trans-1,4-Dichloro-2-butene
Concen: 124.156 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. 0.10 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

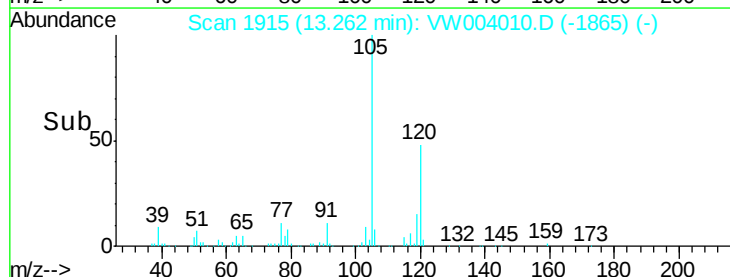
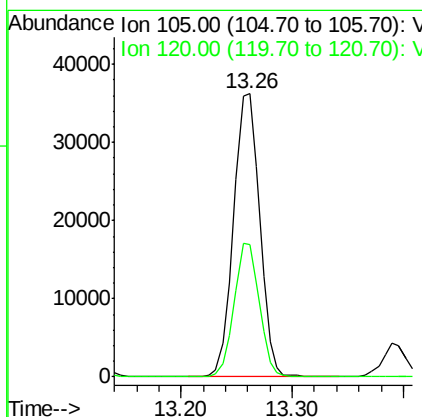
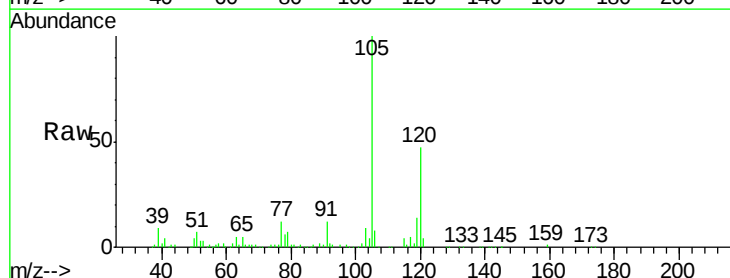
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-CRE

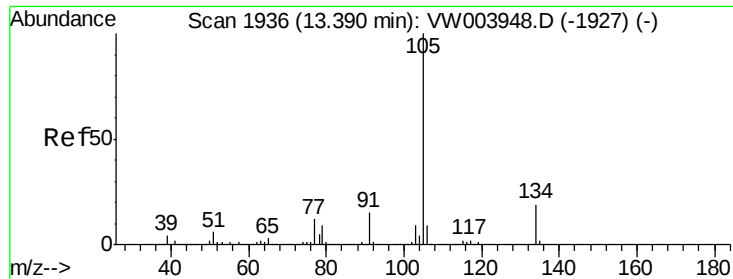
Tot Ion: 75 Resp: 37581
Ion Ratio Lower Upper
75 100
53 0.4 77.6 116.4#
89 0.0 36.6 54.8#



#84
1,2,4-Trimethylbenzene
Concen: 14.357 ug/l
RT: 13.26 min Scan# 1915
Delta R.T. 0.01 min
Lab File: VW004010.D
Acq: 18 Jul 2018 04:19

Tgt Ion: 105 Resp: 59237
Ion Ratio Lower Upper
105 100
120 45.2 22.1 66.1





#85

sec-Butylbenzene

Concen: 1.307 ug/l

RT: 13.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

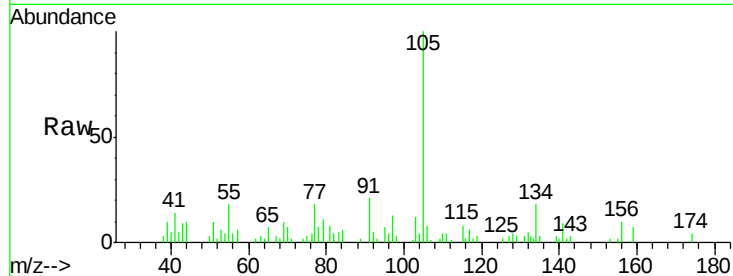
HR-05-071218-CRE

Tot Ion:105 Resp: 6528

Ion Ratio Lower Upper

105 100

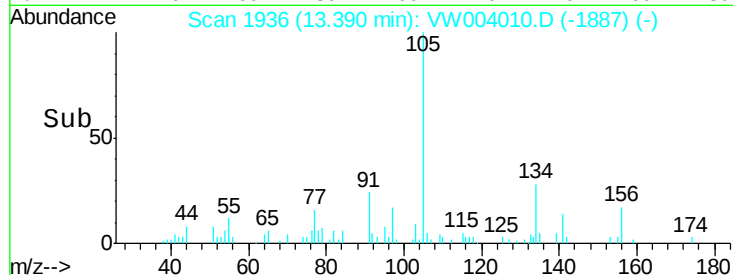
134 28.4 9.8 29.4



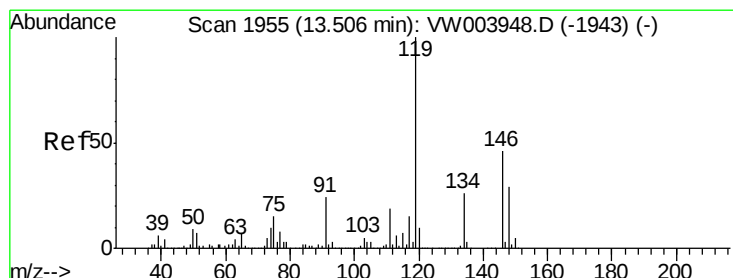
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.39



Time--> 13.30 13.35 13.40 13.45



#86

p-Isopropyltoluene

Concen: 1.814 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

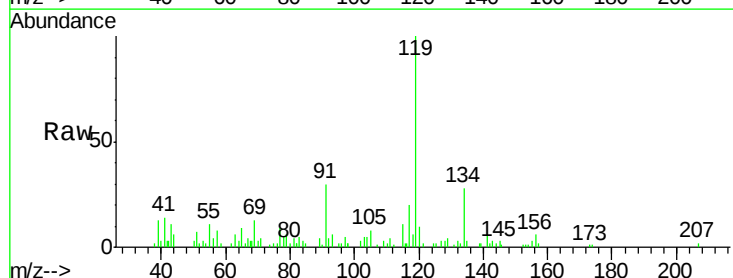
Tgt Ion:119 Resp: 7951

Ion Ratio Lower Upper

119 100

134 31.0 13.0 38.9

91 27.2 11.8 35.3

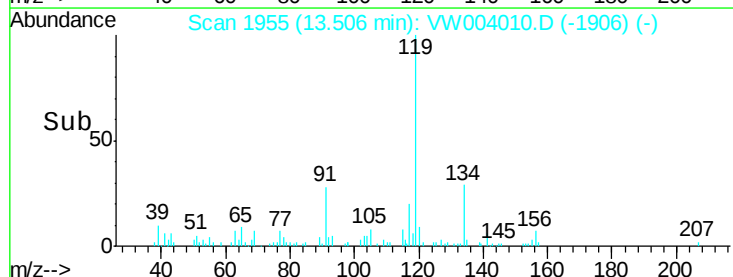


Abundance Ion 119.00 (118.70 to 119.70): V

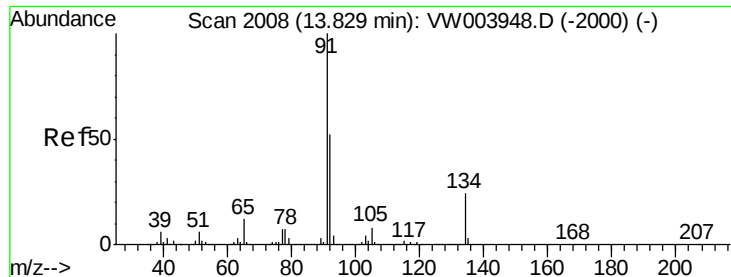
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.51



Time--> 13.45 13.50 13.55



#89

n-Butylbenzene

Concen: 2.545 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

HR-05-071218-CRE

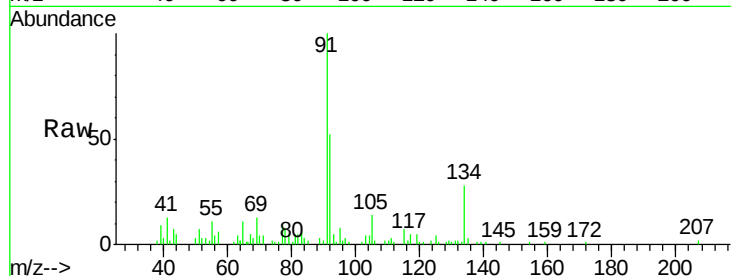
Tot Ion: 91 Resp: 10962

Ion Ratio Lower Upper

91 100

92 56.5 26.1 78.3

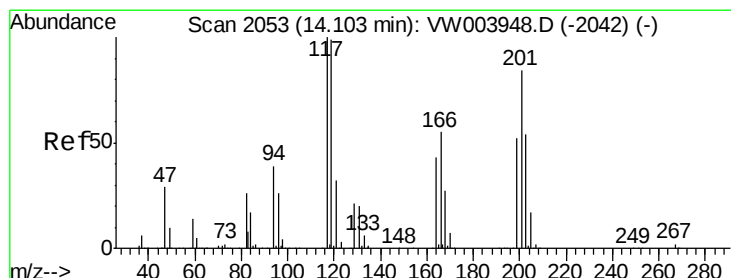
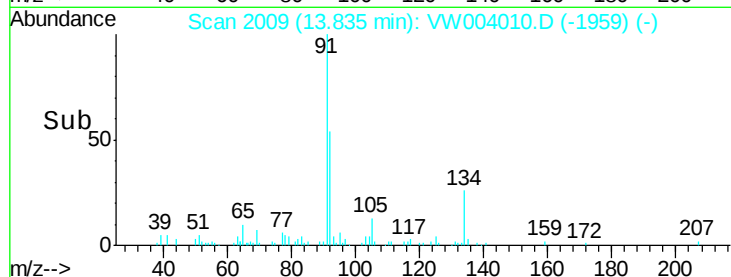
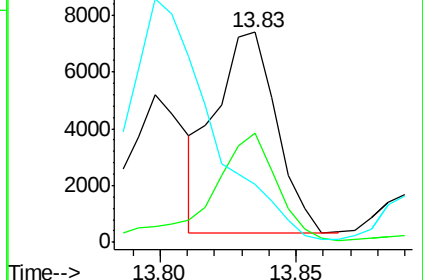
134 0.0 12.4 37.4#



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: 6.011 ug/l

RT: 14.11 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VW004010.D

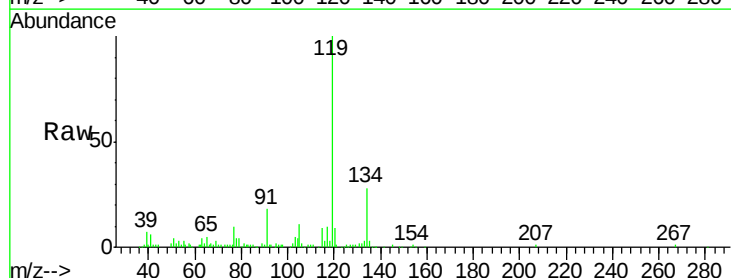
Acq: 18 Jul 2018 04:19

Tgt Ion: 117 Resp: 4856

Ion Ratio Lower Upper

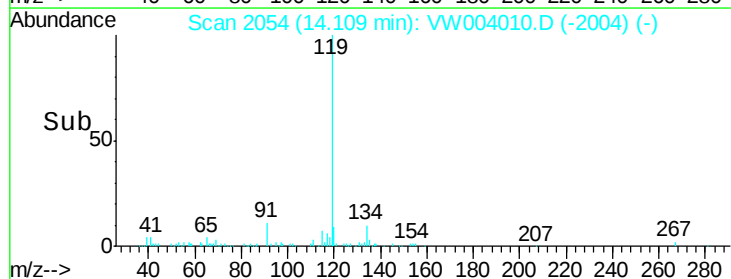
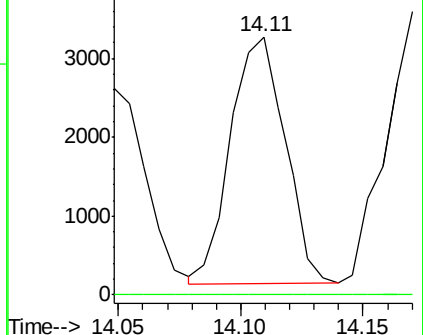
117 100

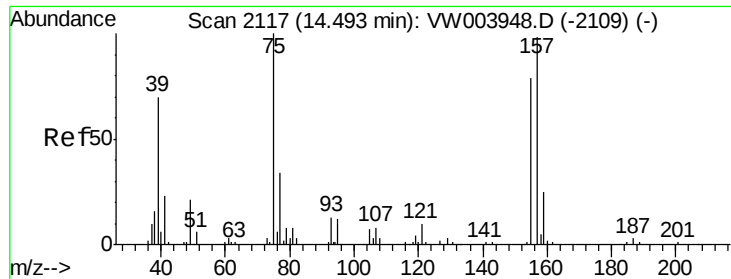
201 0.0 40.3 120.9#



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: 1.245 ug/l

RT: 14.52 min Scan# 2121

Delta R.T. 0.02 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Instrument :

MSVOA_W

ClientSampleId :

HR-05-071218-CRE

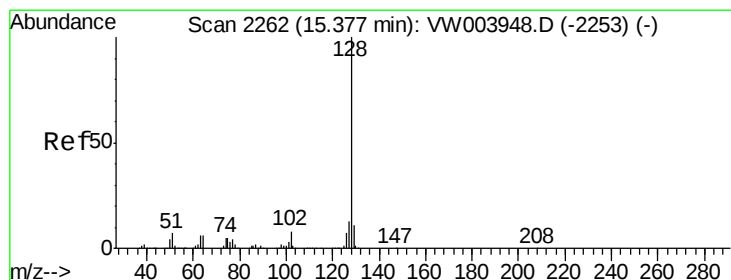
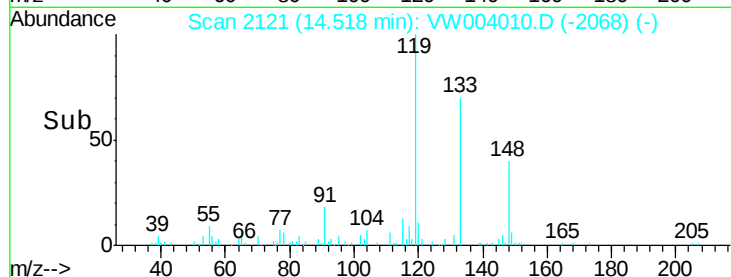
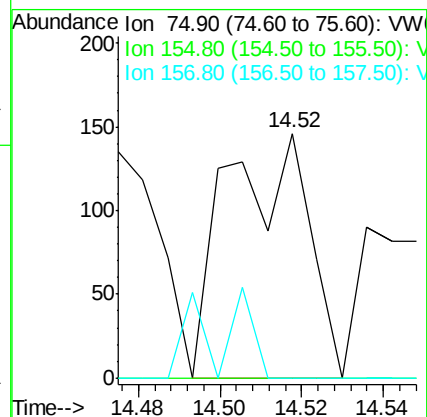
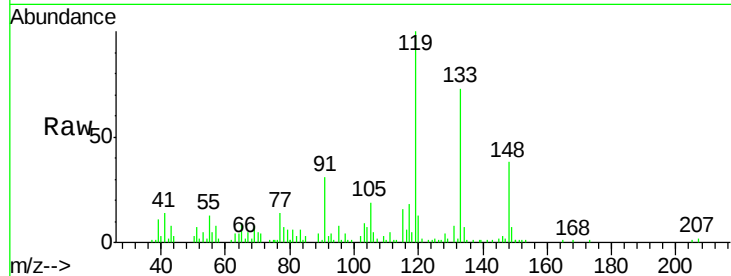
Tot Ion: 75 Resp: 204

Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

157 18.6 51.8 155.4#



#95

Naphthalene

Concen: 2.752 ug/l

RT: 15.38 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VW004010.D

Acq: 18 Jul 2018 04:19

Tgt Ion: 128 Resp: 7240

Ion Ratio Lower Upper

128 100

127 9.8 10.7 16.1#

129 12.9 8.7 13.1

