

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091118\
 Data File : VW005290.D
 Acq On : 11 Sep 2018 21:25
 Operator : SY/AP
 Sample : J4769-05
 Misc : 6.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-090718-C

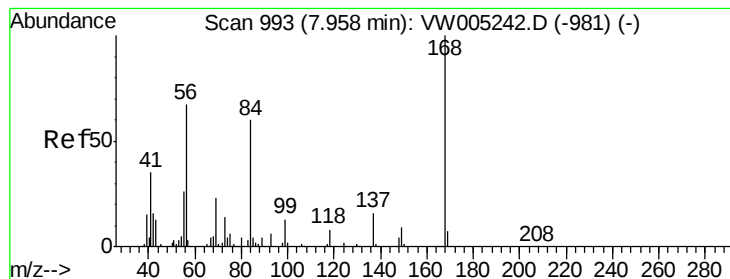
Quant Time: Sep 12 01:04:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 03:48:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	56362	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	86541	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	63765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	18252	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	24913	59.26	ug/l	0.00
Spiked Amount			Recovery	=	118.52%	
35) Dibromofluoromethane	7.91	113	29	0.06	ug/l	0.02
Spiked Amount			Recovery	=	0.12%	
50) Toluene-d8	10.33	98	77537	33.85	ug/l	0.00
Spiked Amount			Recovery	=	67.70%	
62) 4-Bromofluorobenzene	12.63	95	17935	21.40	ug/l	0.00
Spiked Amount			Recovery	=	42.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.79	94	637	Below Cal	#	65
10) Methyl Iodide	4.28	142	206	3.647	ug/l #	86
11) Tert butyl alcohol	5.17	59	45	1.305	ug/l #	73
16) Acetone	4.13	43	8508	109.035	ug/l	95
29) Tetrahydrofuran	7.55	42	125	1.507	ug/l #	44
31) Cyclohexane	7.96	56	1176	1.307	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	3929	4.955	ug/l #	49
38) Carbon Tetrachloride	7.96	117	5101	6.868	ug/l #	17
52) Toluene	10.40	92	6513	3.836	ug/l	97
73) Isopropylbenzene	12.47	105	1654	1.283	ug/l	80
74) N-amyl acetate	12.26	43	1719	7.006	ug/l #	75
75) 1,1,2,2-Tetrachloroethane	12.95	83	1620	8.359	ug/l	82
76) 1,2,3-Trichloropropane	12.62	75	8340	59.408	ug/l #	100
78) n-propylbenzene	12.81	91	3396	2.193	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	9087	8.275	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	8340	139.325	ug/l #	17
83) tert-Butylbenzene	13.21	119	1213	1.263	ug/l #	38
84) 1,2,4-Trimethylbenzene	13.26	105	27302	24.742	ug/l	99
85) sec-Butylbenzene	13.39	105	3995	2.894	ug/l #	65
86) p-Isopropyltoluene	13.51	119	4157	3.402	ug/l	98
89) n-Butylbenzene	13.83	91	3214	2.798	ug/l #	66
90) Hexachloroethane	14.10	117	1857	9.486	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.49	75	86	2.668	ug/l #	1
95) Naphthalene	15.38	128	2617	4.069	ug/l #	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

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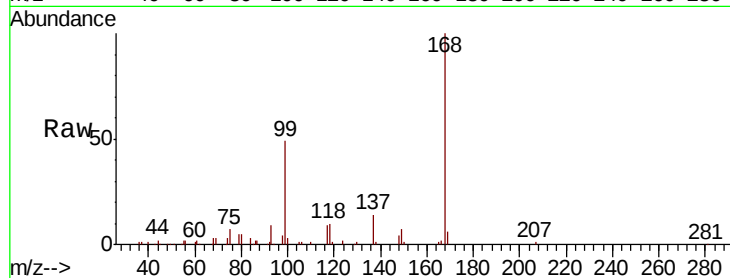
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Tgt Ion:168 Resp: 56362

Ion Ratio Lower Upper

168 100

99 48.7 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

25000

20000

15000

10000

5000

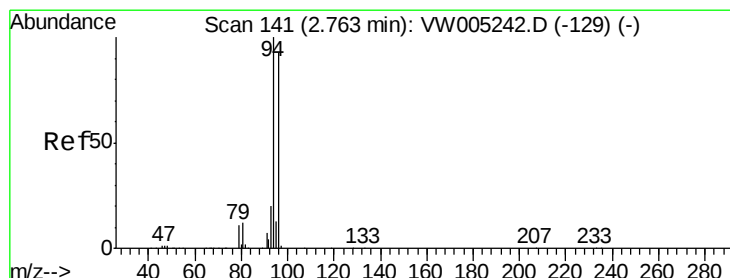
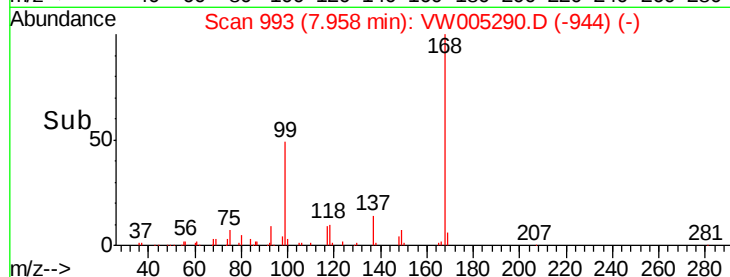
0

7.90

8.00

8.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 145

Delta R.T. 0.02 min

Lab File: VW005290.D

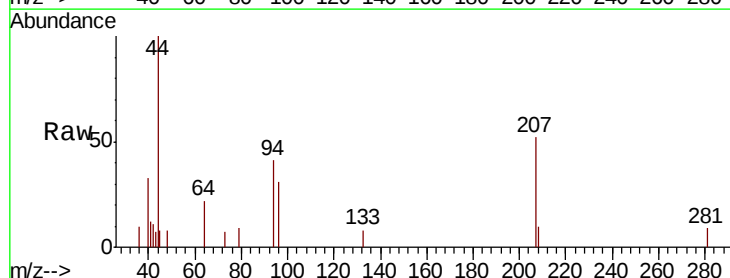
Acq: 11 Sep 2018 21:25

Tgt Ion: 94 Resp: 637

Ion Ratio Lower Upper

94 100

96 59.3 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.79

400

300

200

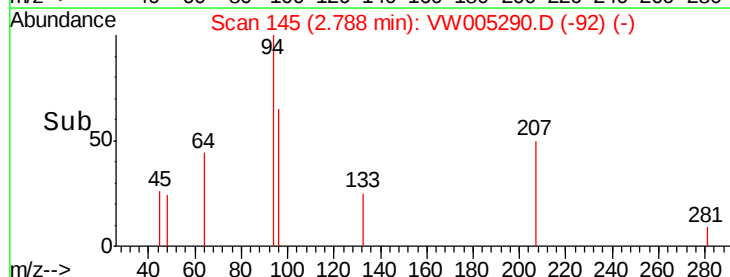
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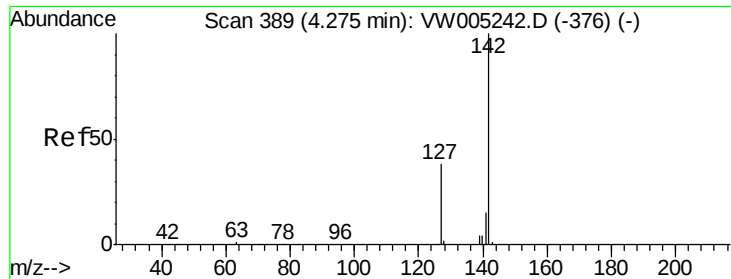
0

2.75

2.80

Time-->

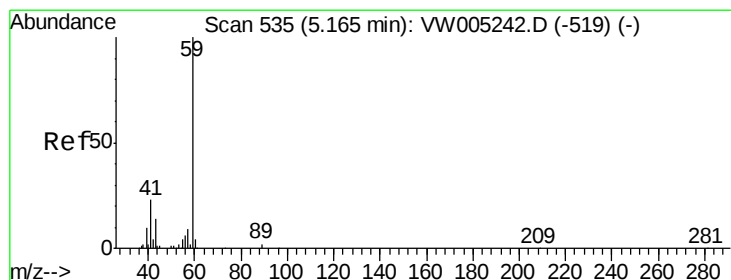
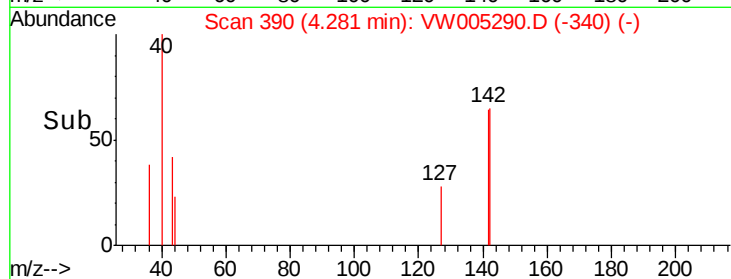
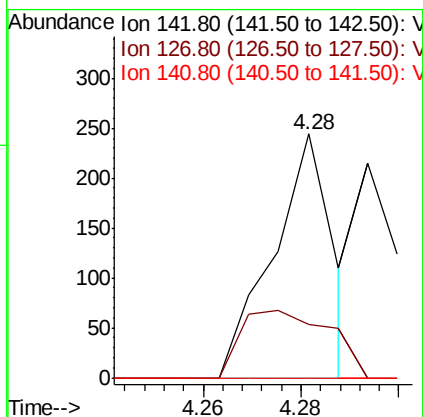
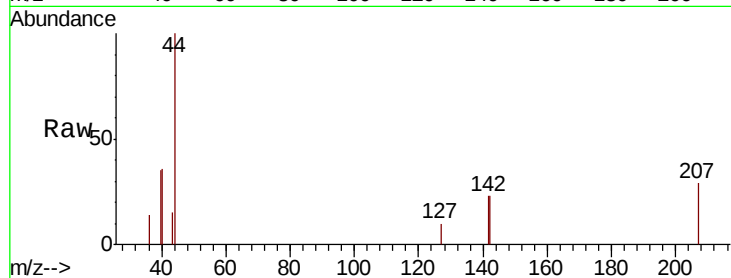




#10
Methyl Iodide
Concen: 3.647 ug/l
RT: 4.28 min Scan# 390
Delta R.T. 0.01 min
Lab File: VW005290.D
Acq: 11 Sep 2018 21:25

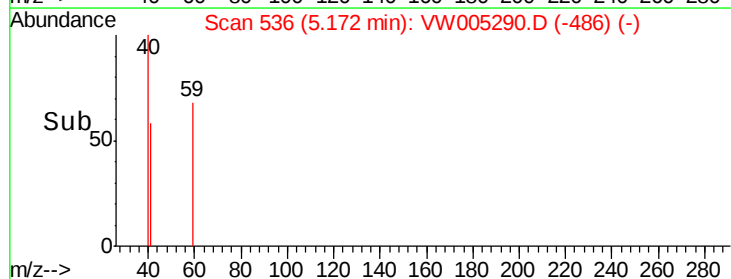
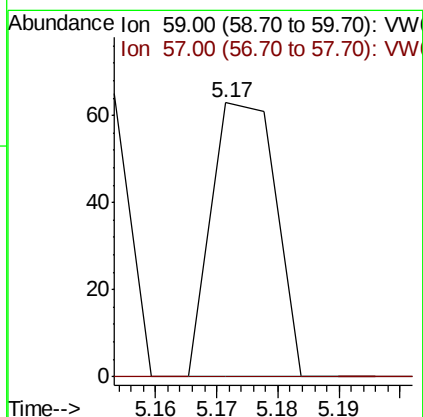
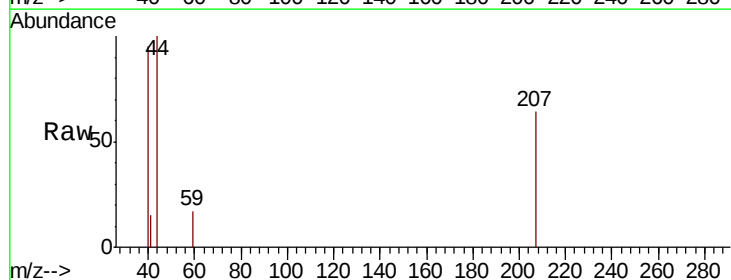
Instrument :
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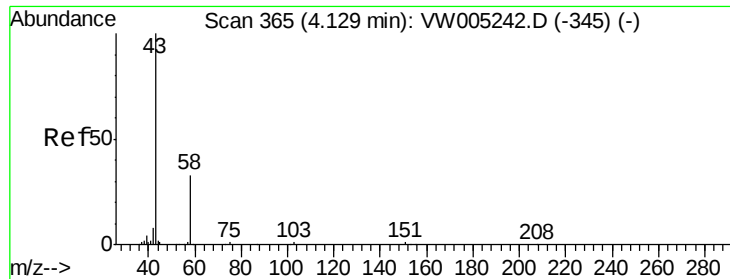
Tgt Ion: 142 Resp: 206
Ion Ratio Lower Upper
142 100
127 41.7 30.3 45.5
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.305 ug/l
RT: 5.17 min Scan# 536
Delta R.T. 0.01 min
Lab File: VW005290.D
Acq: 11 Sep 2018 21:25

Tgt Ion: 59 Resp: 45
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#16

Acetone

Concen: 109.035 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW005290.D

Acq: 11 Sep 2018 21:25

Instrument :

MSVOA_W

ClientSampleId :

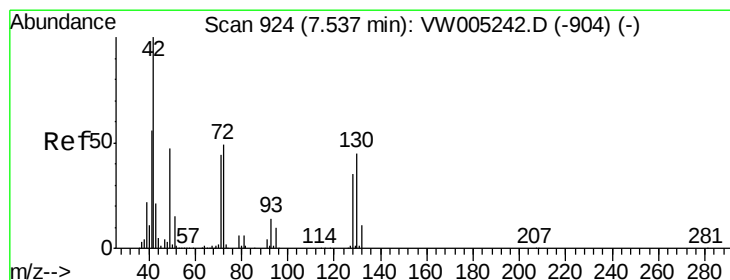
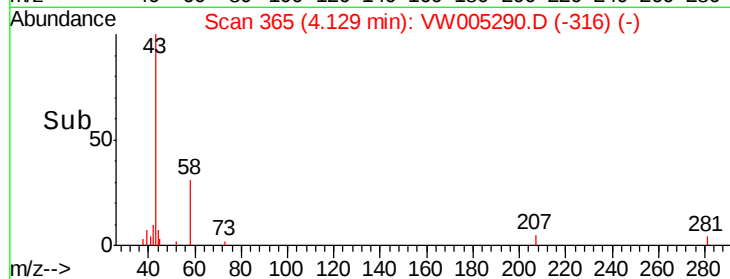
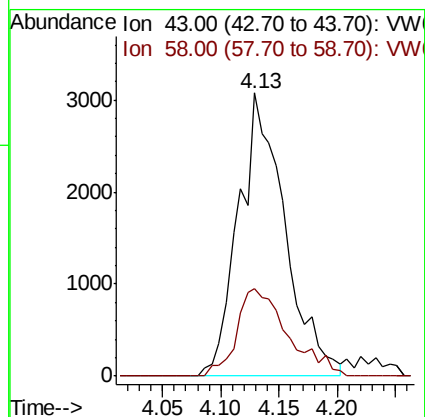
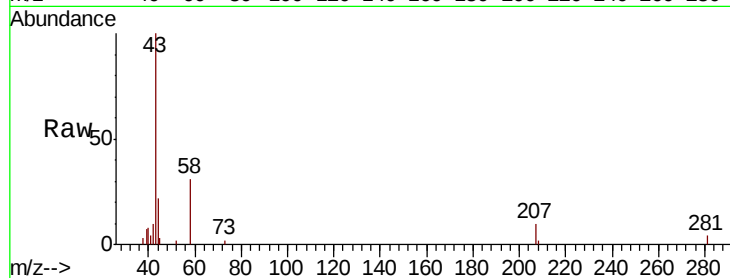
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Tgt Ion: 43 Resp: 8508

Ion Ratio Lower Upper

43 100

58 30.8 26.7 40.1



#29

Tetrahydrofuran

Concen: 1.507 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.01 min

Lab File: VW005290.D

Acq: 11 Sep 2018 21:25

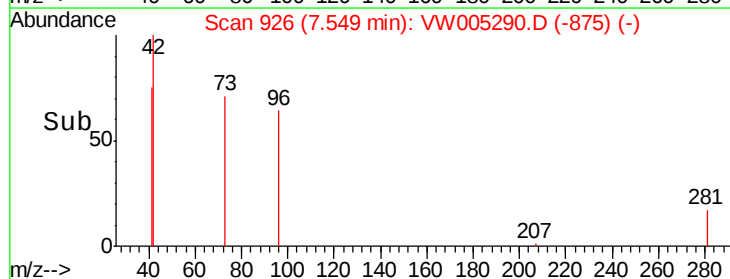
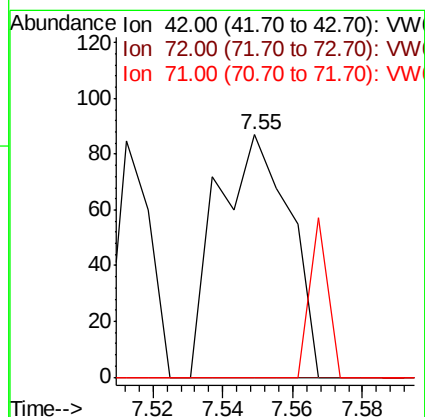
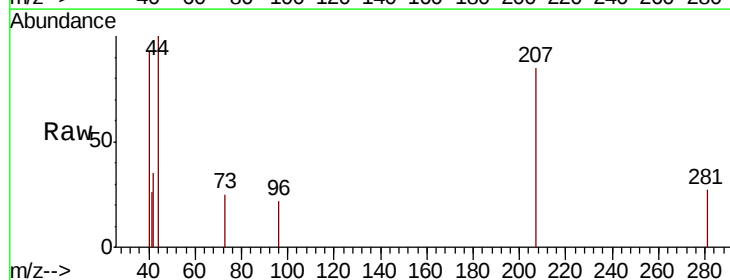
Tgt Ion: 42 Resp: 125

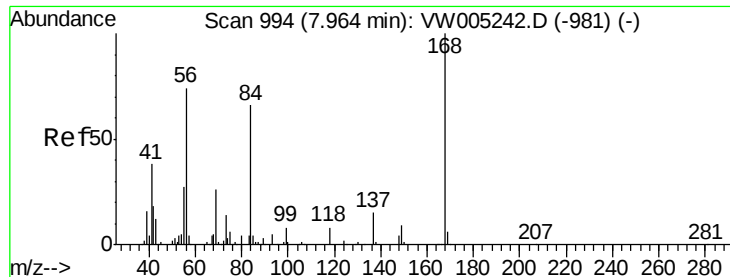
Ion Ratio Lower Upper

42 100

72 0.0 37.5 56.3#

71 16.8 34.8 52.2#

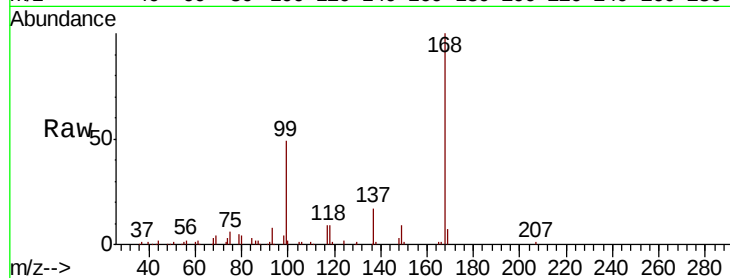




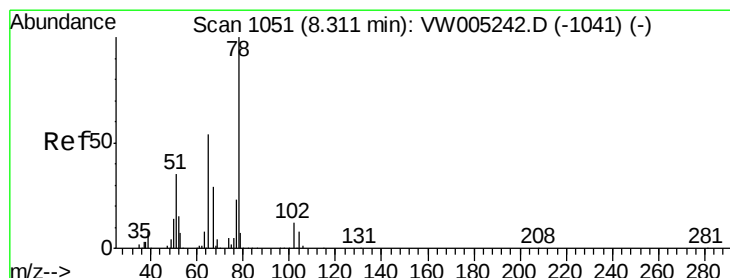
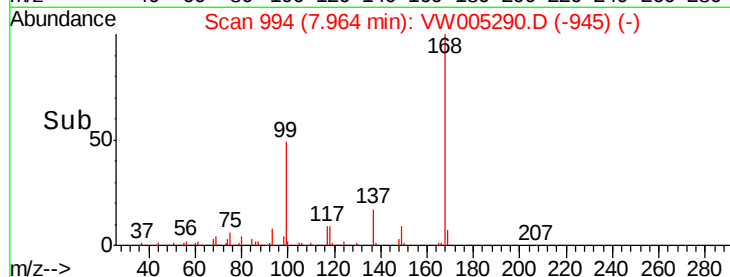
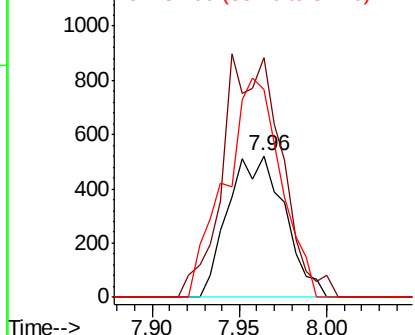
#31
Cyclohexane
Concen: 1.307 ug/l
RT: 7.96 min Scan# 994
Delta R.T. -0.00 min
Lab File: VW005290.D
Acq: 11 Sep 2018 21:25

Instrument :
MSVOA_W
ClientSampleId :
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Tgt Ion: 56 Resp: 1176
Ion Ratio Lower Upper
56 100
69 169.5 27.8 41.8#
84 147.4 72.1 108.1#

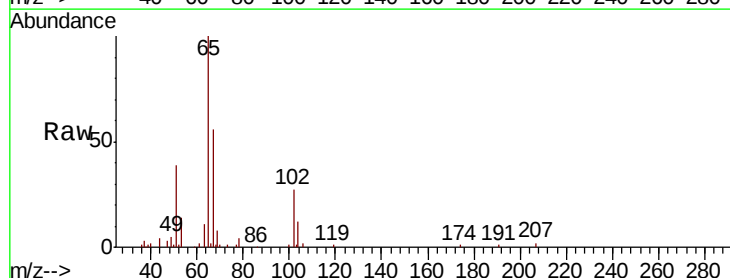


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

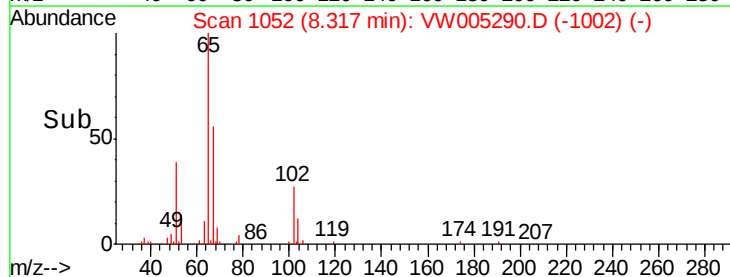
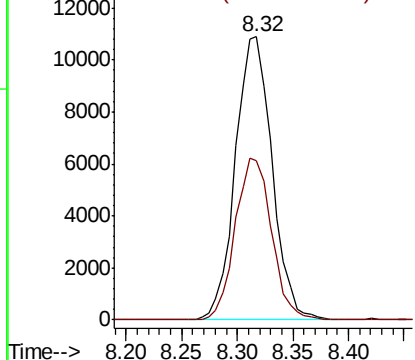


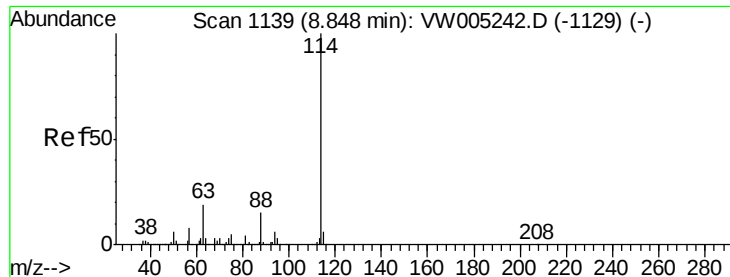
#33
1,2-Dichloroethane-d4
Concen: 59.263 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VW005290.D
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Tgt Ion: 65 Resp: 24913
Ion Ratio Lower Upper
65 100
67 56.5 0.0 112.2



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

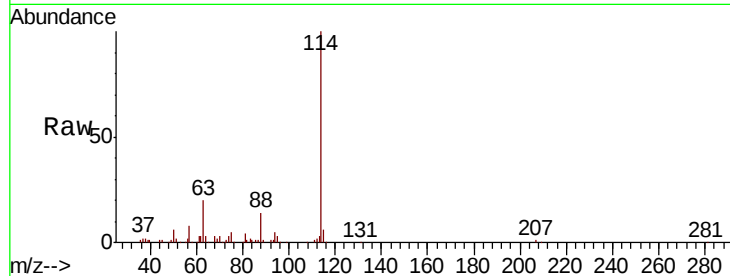




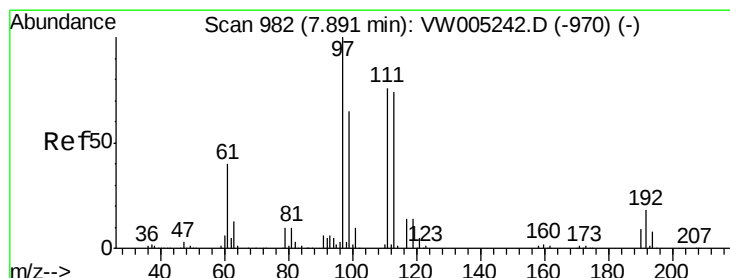
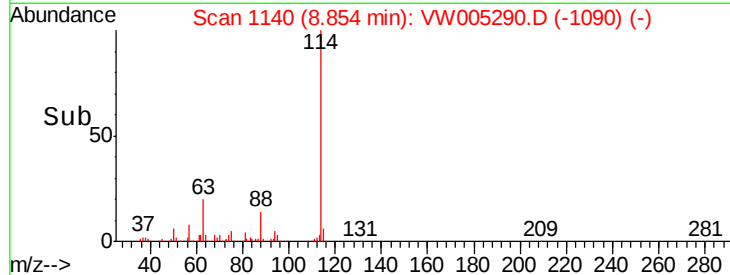
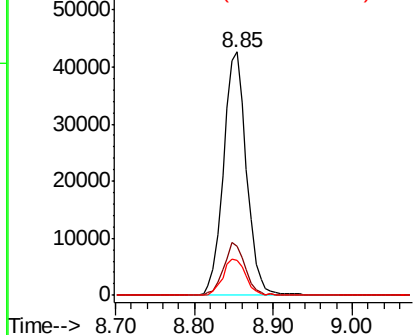
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005290.D
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Tgt Ion:114 Resp: 86541
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 37.0
 88 14.5 0.0 30.4

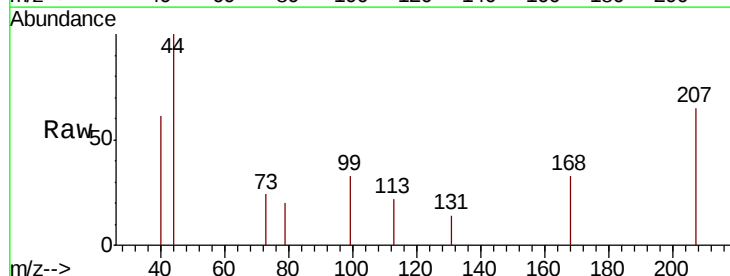


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

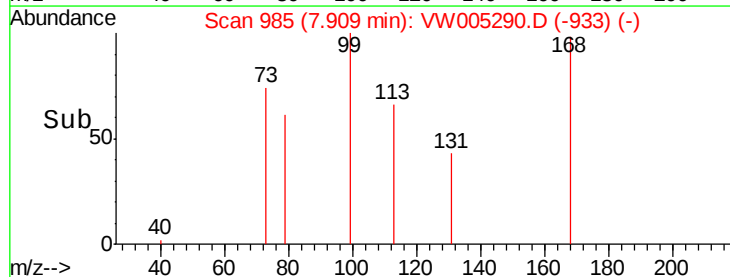
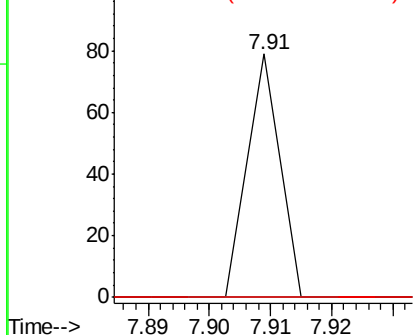


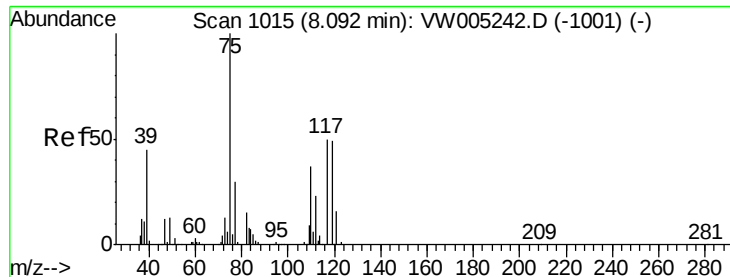
#35
 Dibromofluoromethane
 Concen: 0.064 ug/l
 RT: 7.91 min Scan# 985
 Delta R.T. 0.02 min
 Lab File: VW005290.D
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Tgt Ion:113 Resp: 29
 Ion Ratio Lower Upper
 113 100
 111 0.0 80.6 121.0#
 192 0.0 18.3 27.5#



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: 4.955 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.14 min

Lab File: VW005290.D

Acq: 11 Sep 2018 21:25

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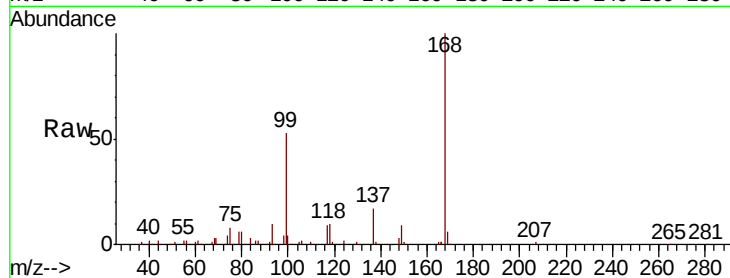
Tgt Ion: 75 Resp: 3929

Ion Ratio Lower Upper

75 100

110 9.8 18.8 56.4#

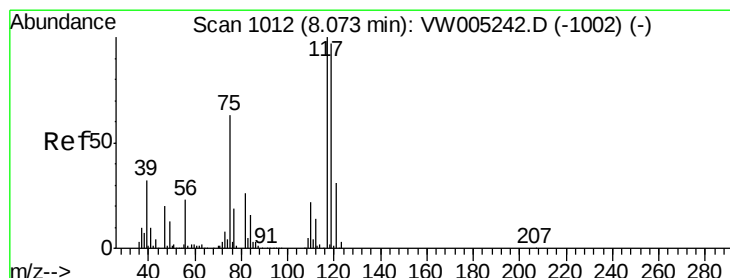
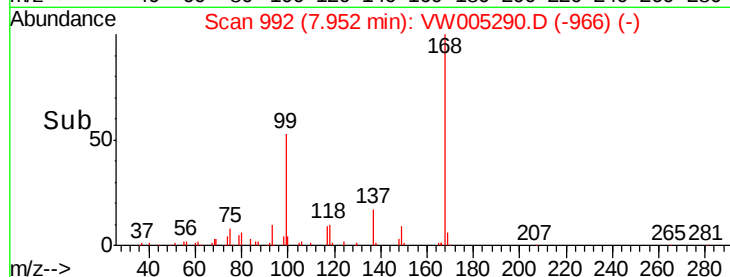
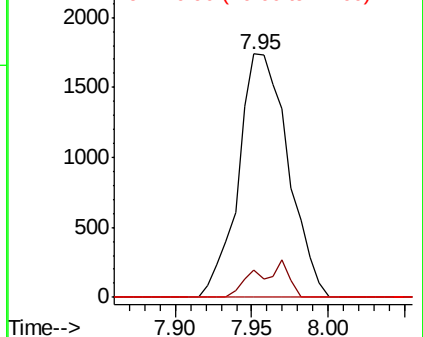
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 6.868 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005290.D

Acq: 11 Sep 2018 21:25

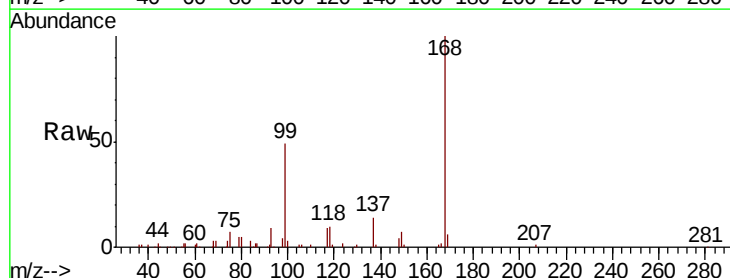
Tgt Ion: 117 Resp: 5101

Ion Ratio Lower Upper

117 100

119 7.2 77.5 116.3#

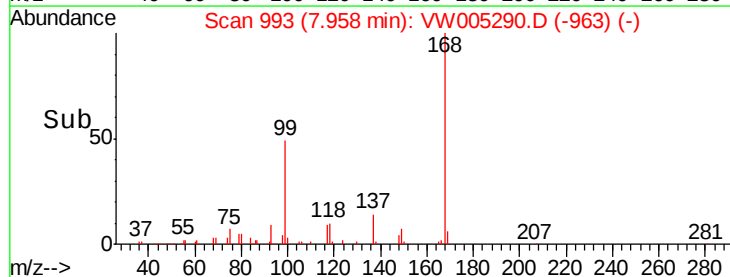
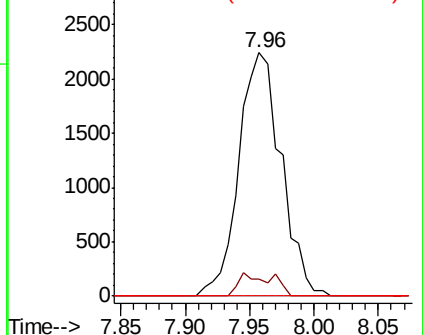
121 0.0 24.7 37.1#

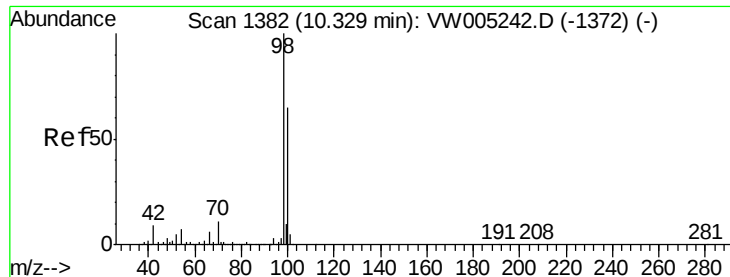


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 33.848 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005290.D

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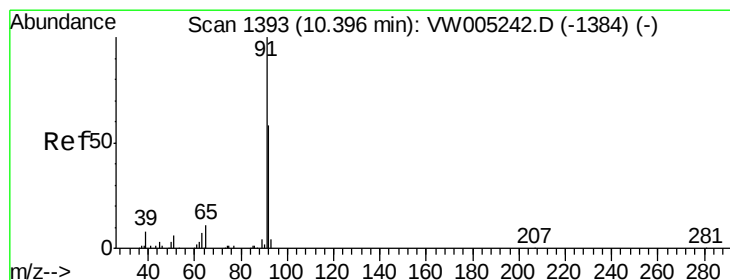
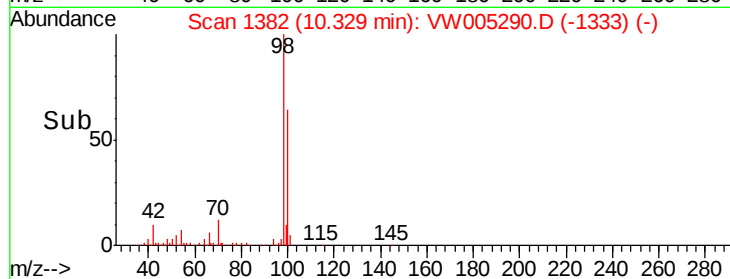
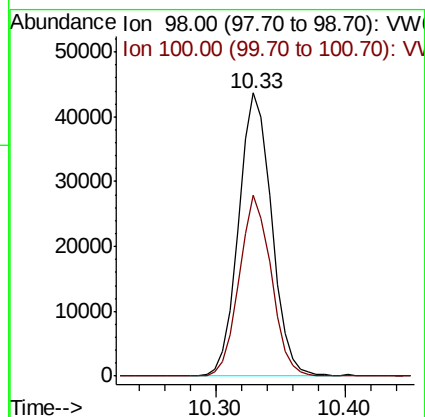
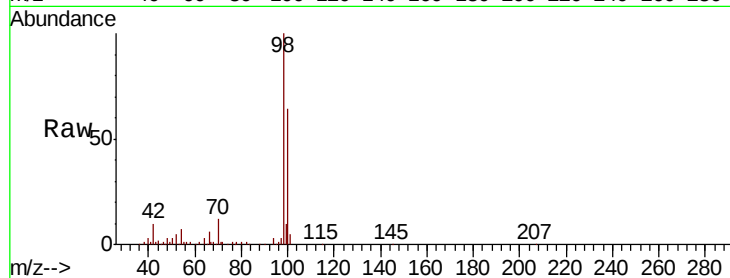
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Tgt Ion: 98 Resp: 77537

Ion Ratio Lower Upper

98 100

100 62.2 52.0 78.0



#52

Toluene

Concen: 3.836 ug/l

RT: 10.40 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VW005290.D

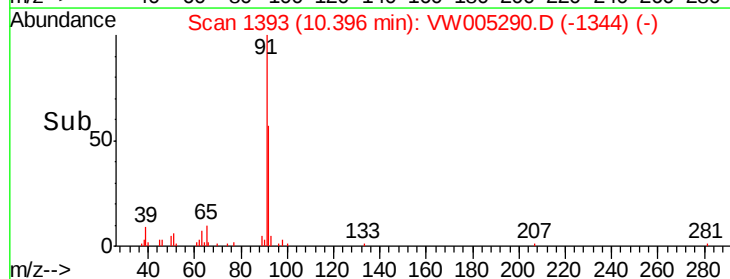
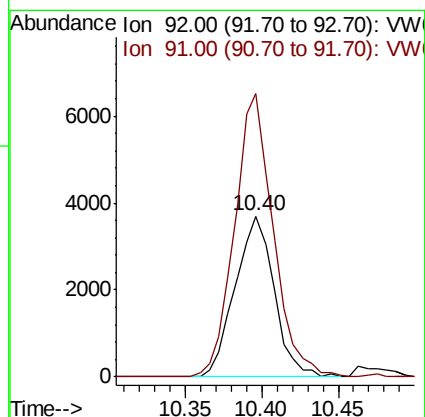
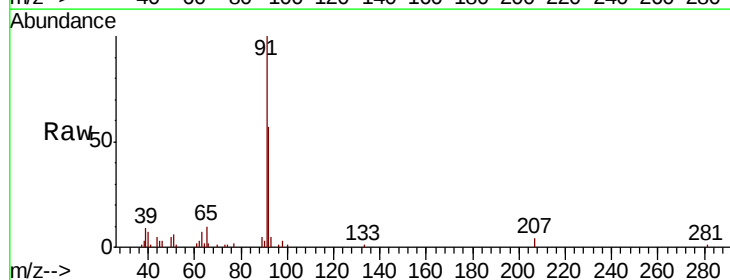
Acq: 11 Sep 2018 21:25

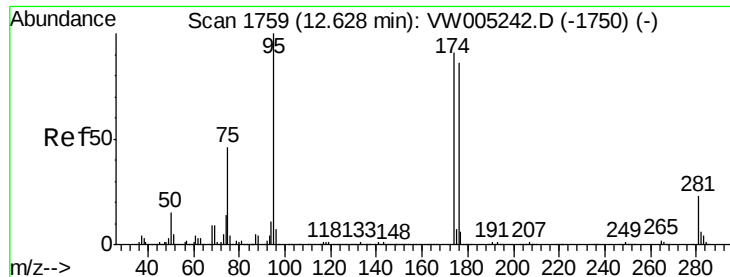
Tgt Ion: 92 Resp: 6513

Ion Ratio Lower Upper

92 100

91 175.5 137.4 206.0

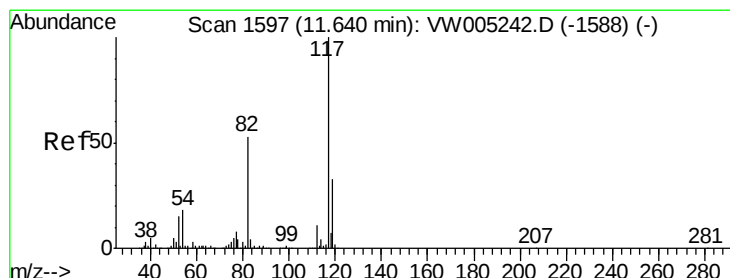
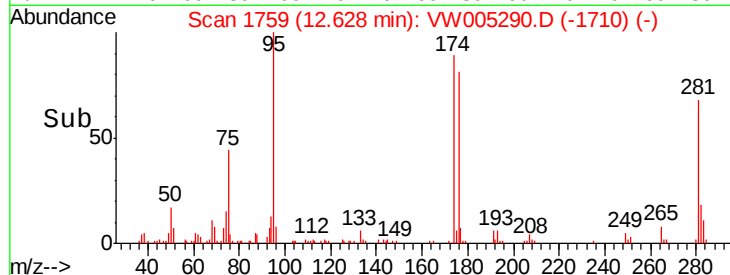
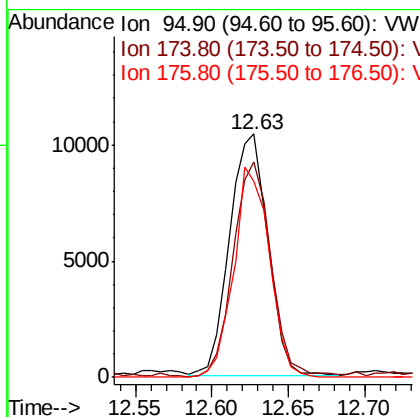
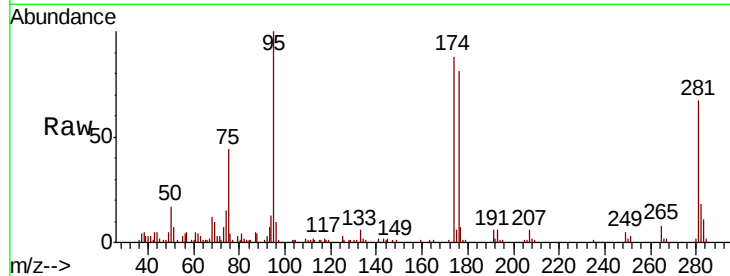




#62
4-Bromofluorobenzene
Concen: 21.405 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. -0.00 min
Lab File: VW005290.D
Acq: 11 Sep 2018 21:25

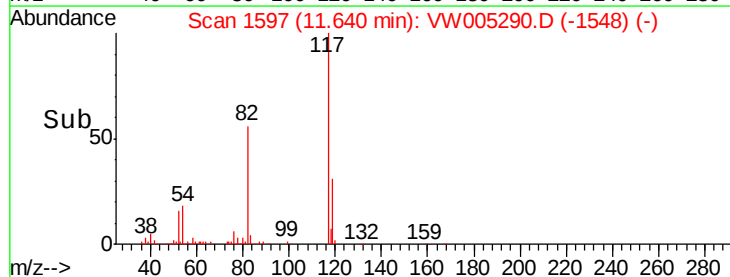
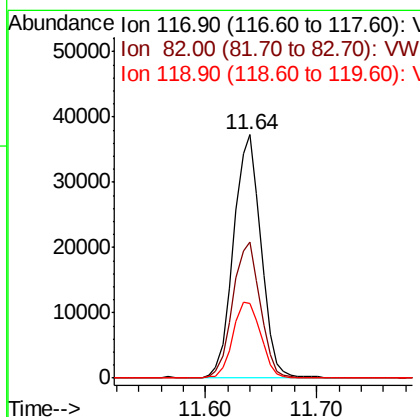
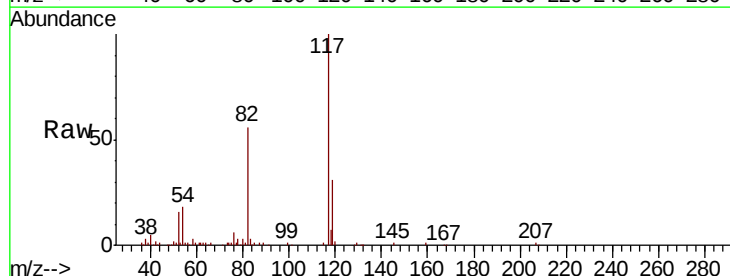
Instrument :
MSVOA_W
ClientSampleId :
HR-05-090718-C

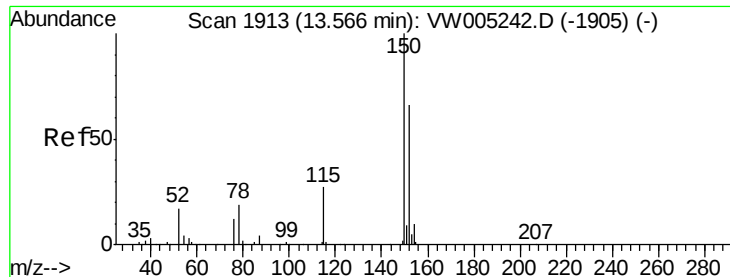
Tgt Ion: 95 Resp: 17935
Ion Ratio Lower Upper
95 100
174 88.8 0.0 174.6
176 81.7 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005290.D
Acq: 11 Sep 2018 21:25

Tgt Ion: 117 Resp: 63765
Ion Ratio Lower Upper
117 100
82 55.7 42.6 63.8
119 30.5 26.2 39.4

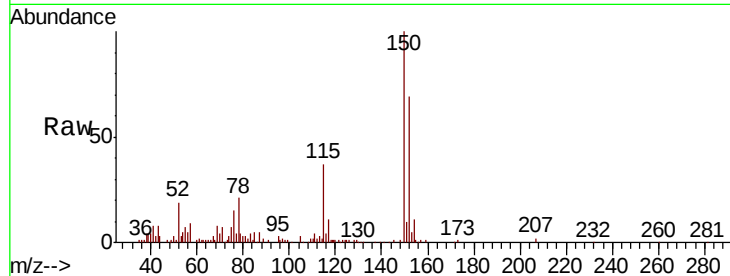




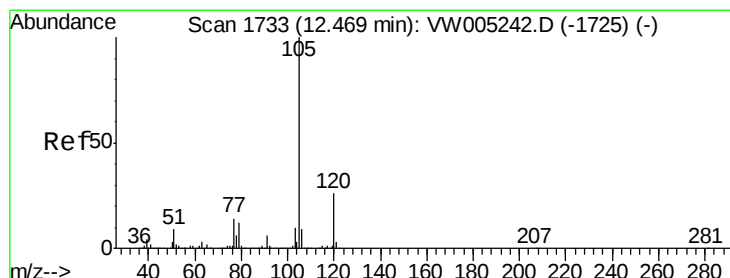
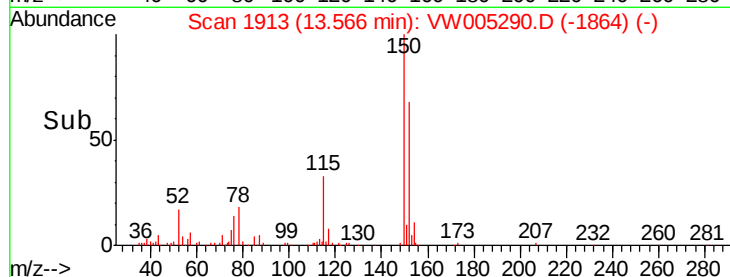
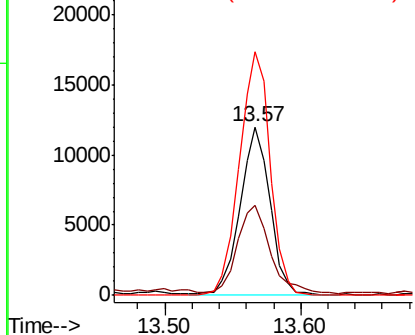
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.57 min Scan# 1913
 Delta R.T. -0.00 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-090718-C

Tgt Ion:152 Resp: 18252
 Ion Ratio Lower Upper
 152 100
 115 58.6 27.5 82.4
 150 149.3 0.0 347.4

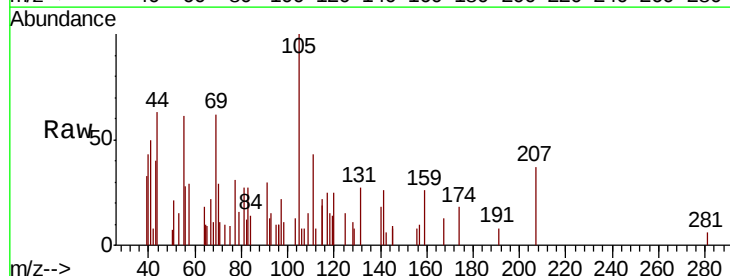


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

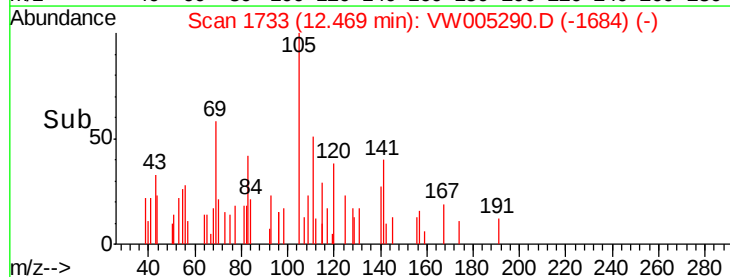
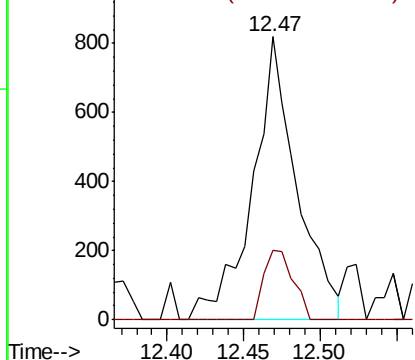


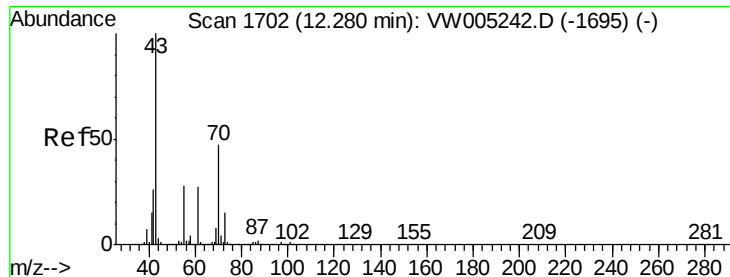
#73
 Isopropylbenzene
 Concen: 1.283 ug/l
 RT: 12.47 min Scan# 1733
 Delta R.T. -0.00 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

Tgt Ion:105 Resp: 1654
 Ion Ratio Lower Upper
 105 100
 120 16.3 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

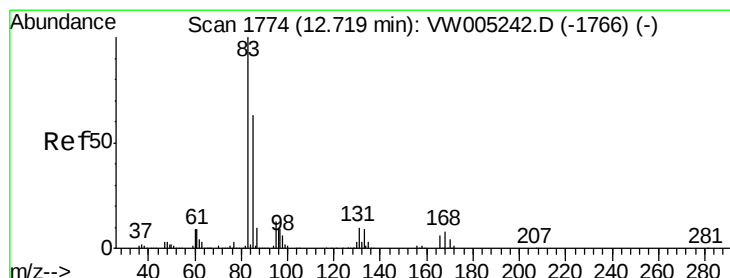
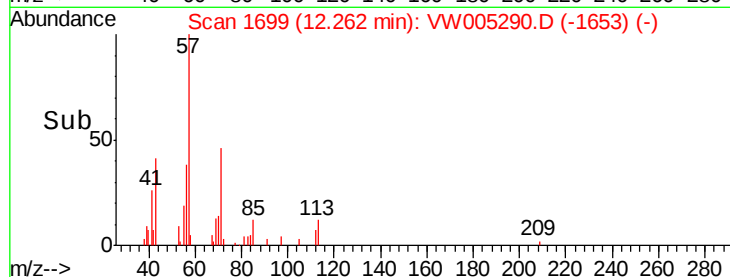
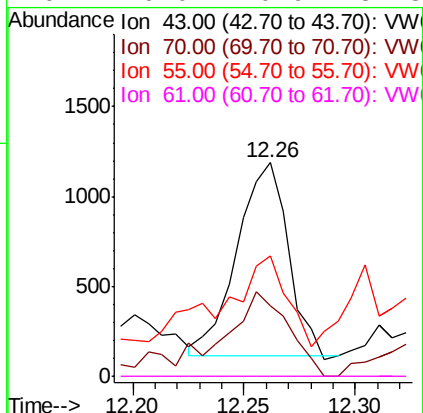
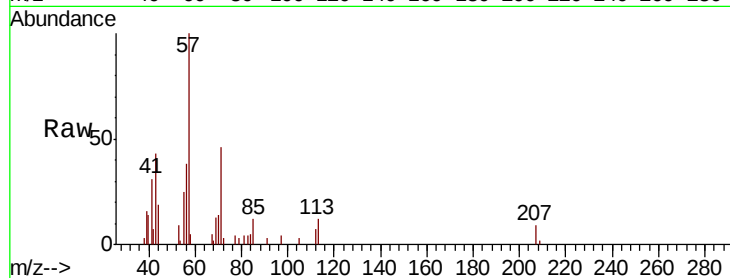




#74
N-ethyl acetate
Concen: 7.006 ug/l
RT: 12.26 min Scan# 1699
Delta R.T. -0.02 min
Lab File: VW005290.D
Acq: 11 Sep 2018 21:25

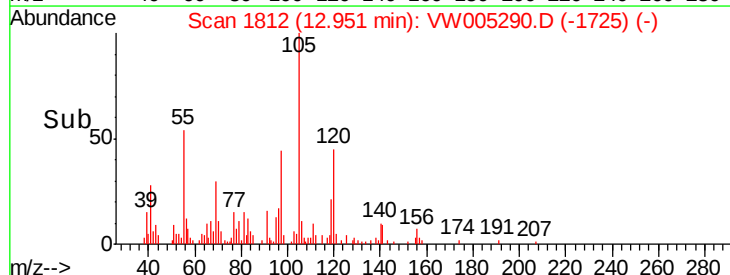
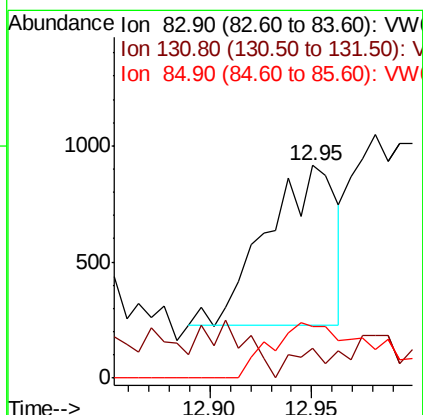
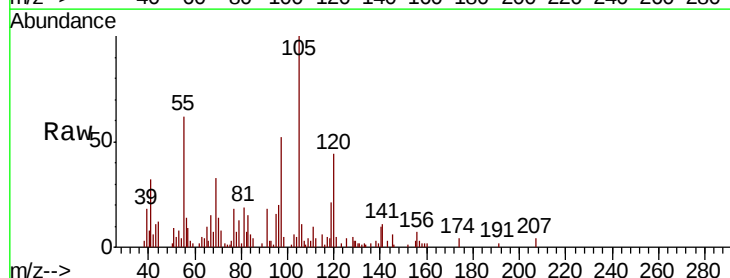
Instrument :
MSVOA_W
ClientSampleId :
HR-05-090718-C

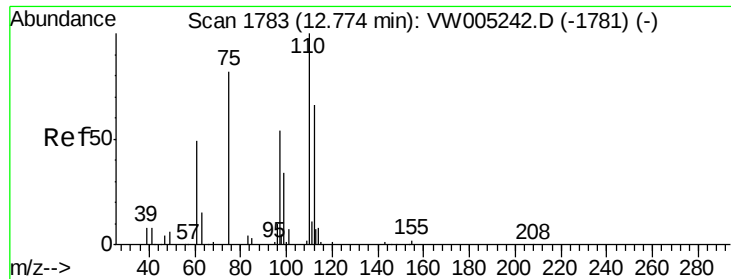
Tgt Ion:	43	Resp:	1719
Ion	Ratio	Lower	Upper
43	100		
70	53.8	37.9	56.9
55	42.2	22.6	33.8#
61	0.0	20.9	31.3#



#75
1,1,2,2-Tetrachloroethane
Concen: 8.359 ug/l
RT: 12.95 min Scan# 1812
Delta R.T. 0.23 min
Lab File: VW005290.D
Acq: 11 Sep 2018 21:25

Tgt Ion:	83	Resp:	1620
Ion	Ratio	Lower	Upper
83	100		
131	8.8	5.5	16.4
85	47.8	31.6	95.0





#76

1,2,3-Trichloropropane

Concen: 59.408 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005290.D

Acq: 11 Sep 2018 21:25

Instrument :

MSVOA_W

ClientSampleId :

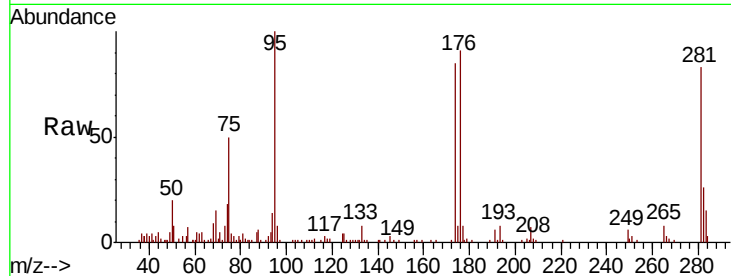
HR-05-090718-C

Tgt Ion: 75 Resp: 8340

Ion Ratio Lower Upper

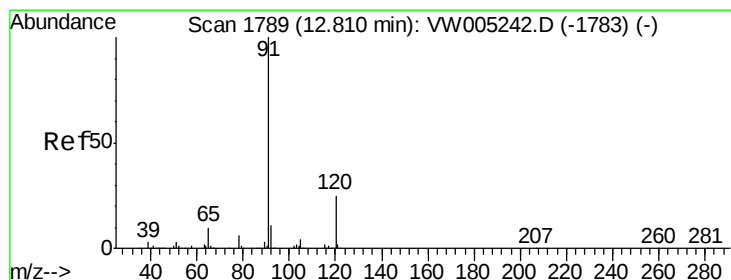
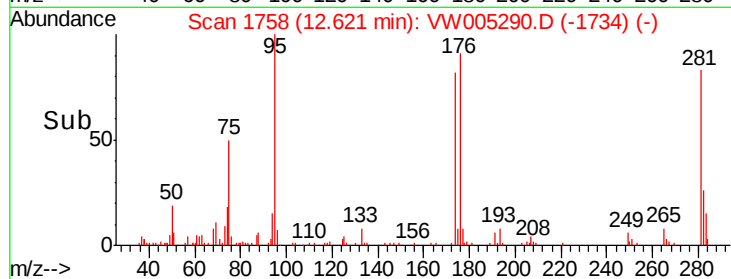
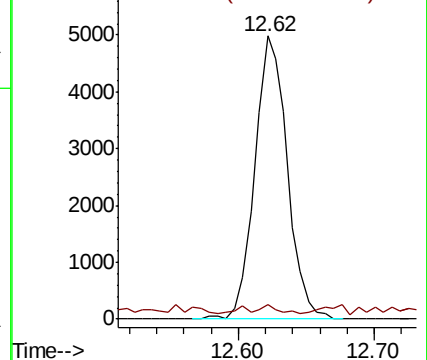
75 100

77 1.5 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: 2.193 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW005290.D

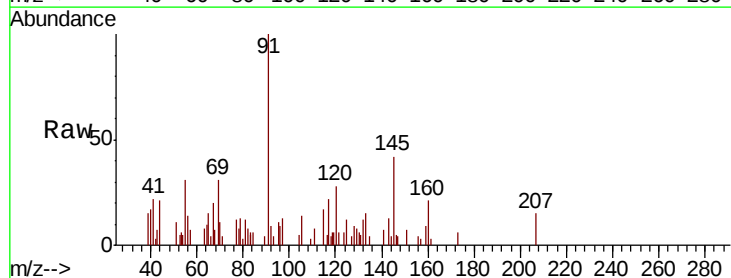
Acq: 11 Sep 2018 21:25

Tgt Ion: 91 Resp: 3396

Ion Ratio Lower Upper

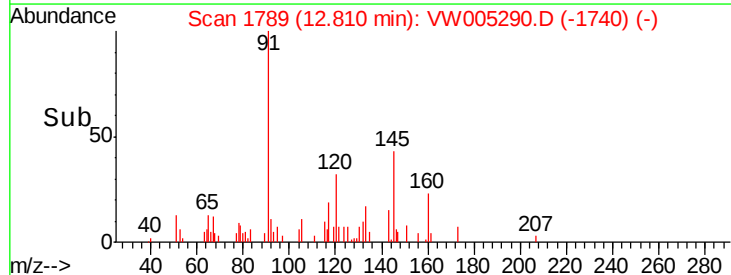
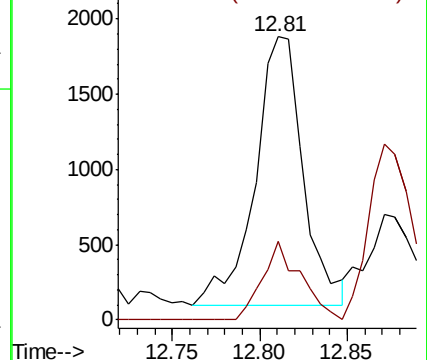
91 100

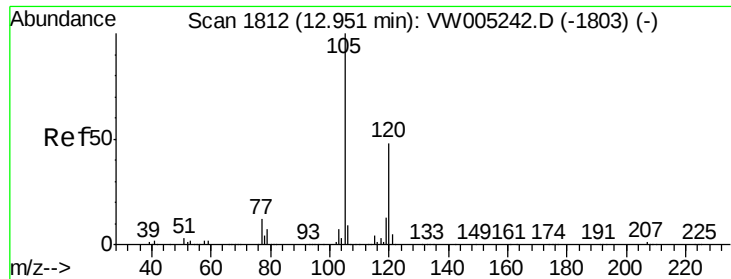
120 23.5 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

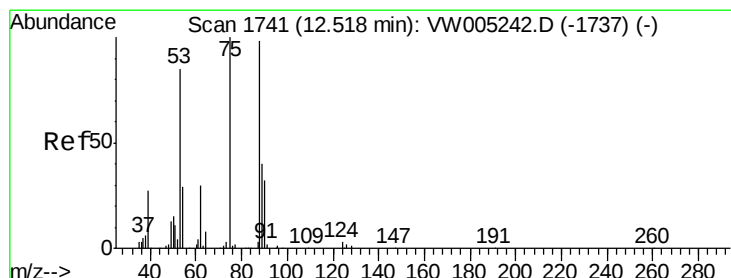
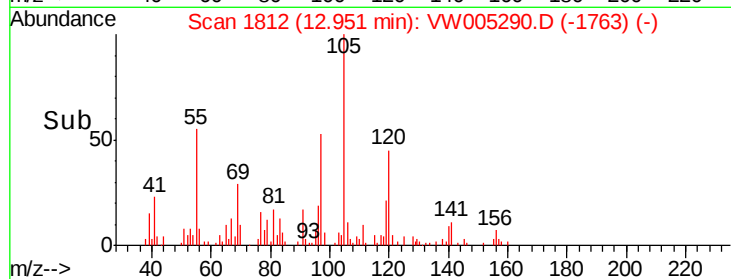
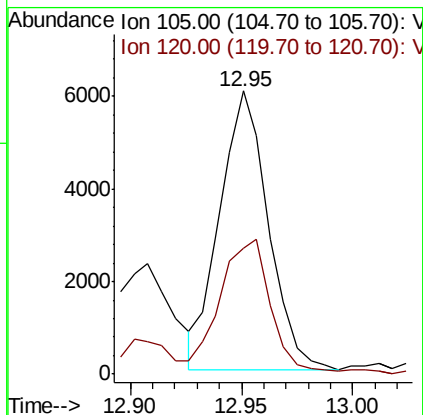
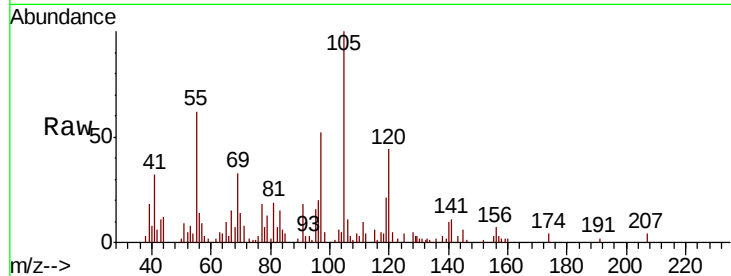




#80
 1,3,5-Trimethylbenzene
 Concen: 8.275 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

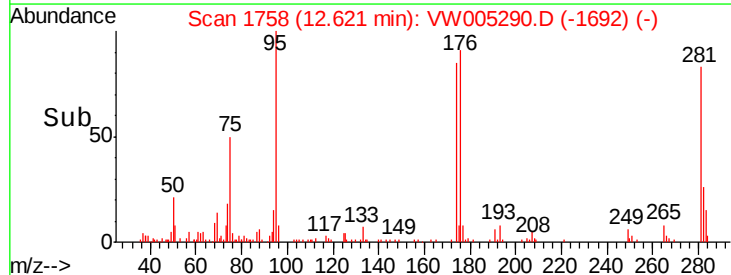
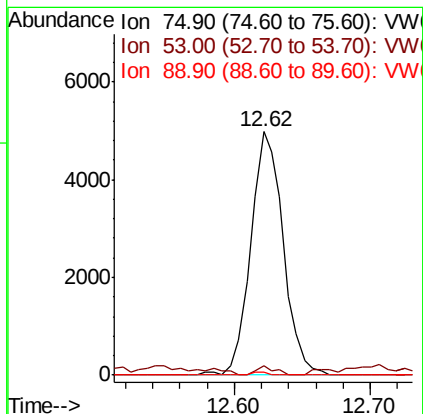
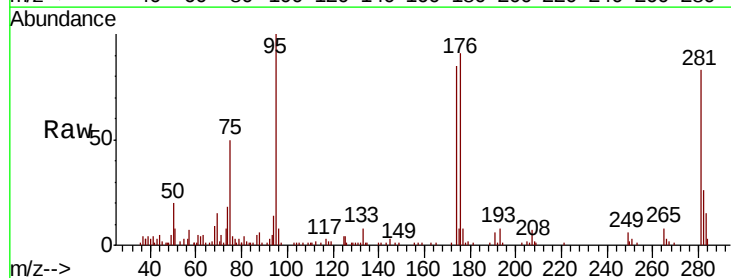
Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-090718-C

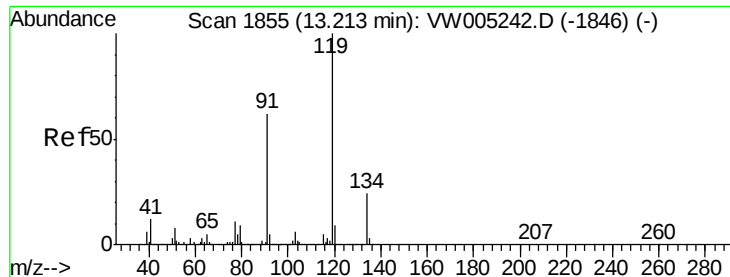
Tgt Ion: 105 Resp: 9087
 Ion Ratio Lower Upper
 105 100
 120 49.2 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.325 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

Tgt Ion: 75 Resp: 8340
 Ion Ratio Lower Upper
 75 100
 53 2.1 67.0 100.6#
 89 0.5 37.0 55.4#





#83

tert-Butylbenzene

Concen: 1.263 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW005290.D

Acq: 11 Sep 2018 21:25

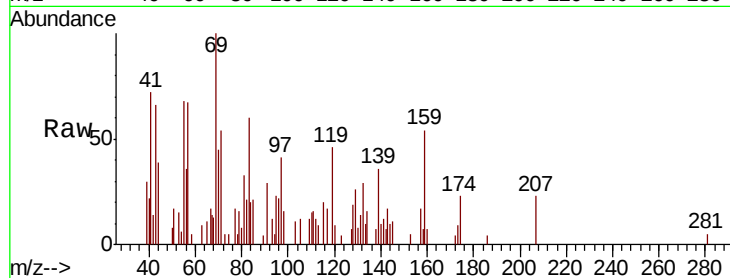
Instrument :

MSVOA_W

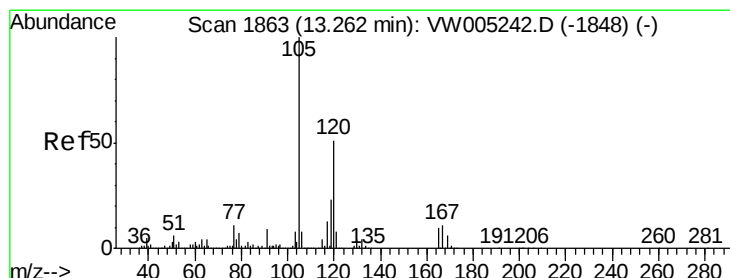
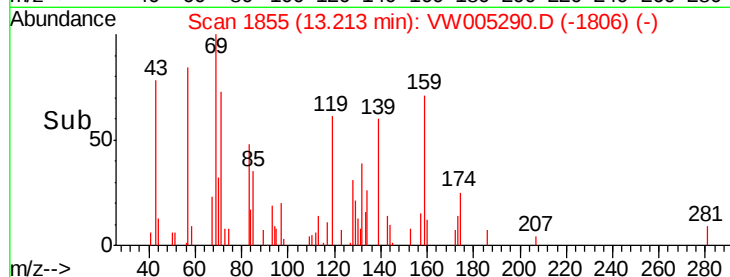
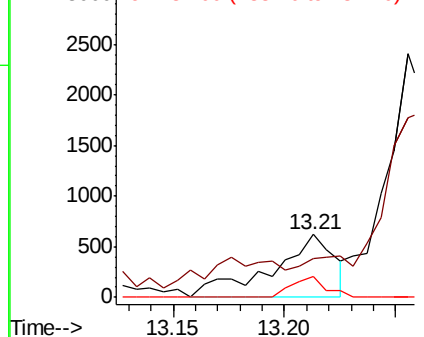
ClientSampleId :

HR-05-090718-C

Tgt Ion:	119	Resp:	1213
Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.7	95.1#
134	17.9	13.0	38.9



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 24.742 ug/l

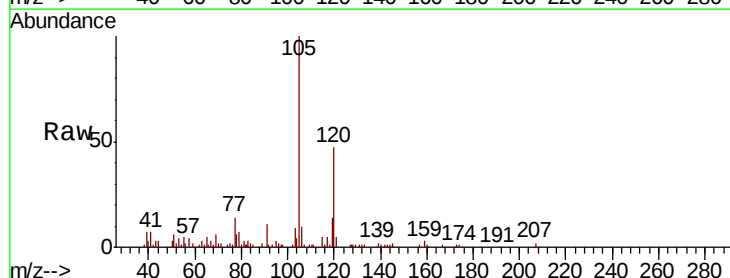
RT: 13.26 min Scan# 1862

Delta R.T. -0.01 min

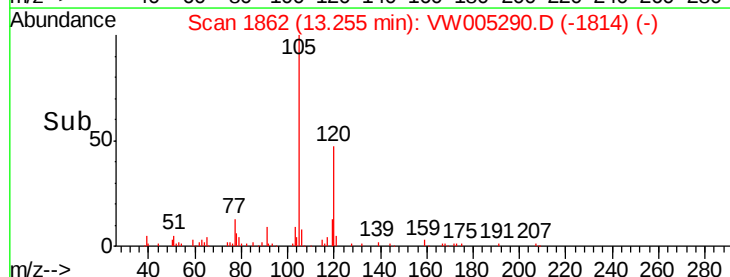
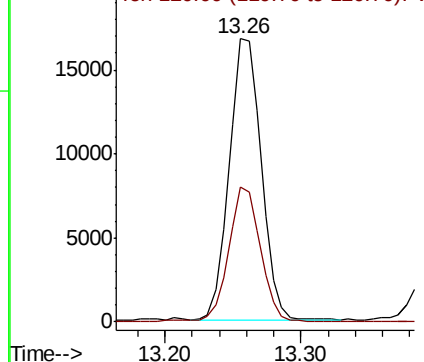
Lab File: VW005290.D

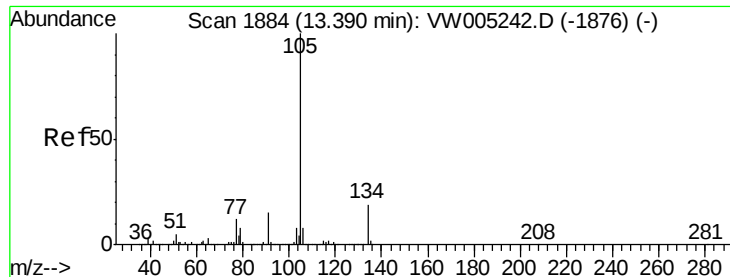
Acq: 11 Sep 2018 21:25

Tgt Ion:	105	Resp:	27302
Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.4	70.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

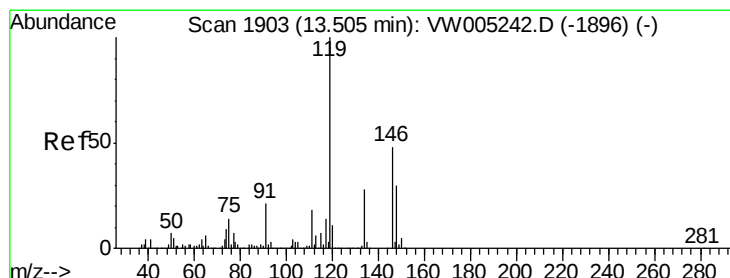
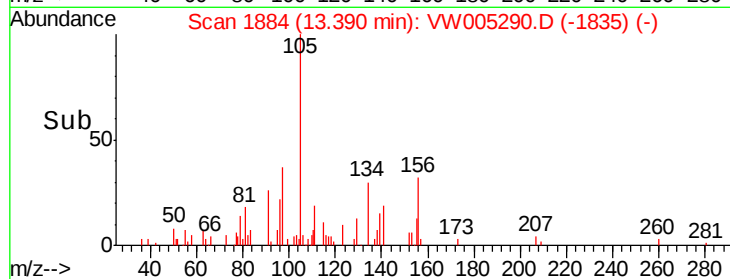
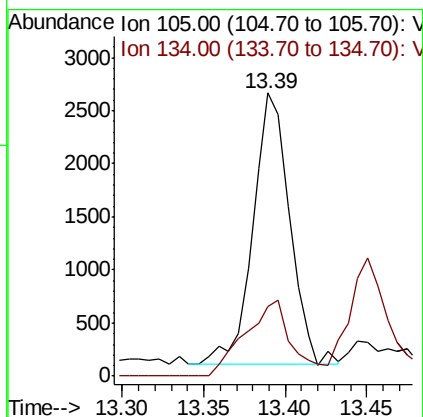
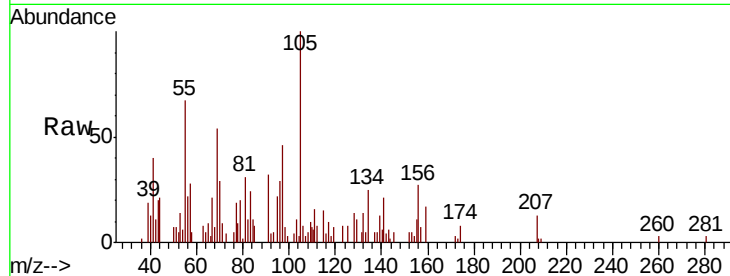




#85
 sec-Butylbenzene
 Concen: 2.894 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

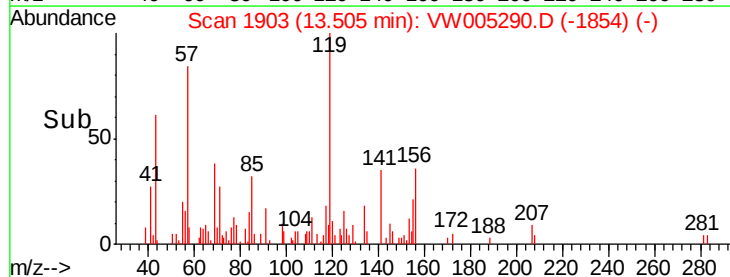
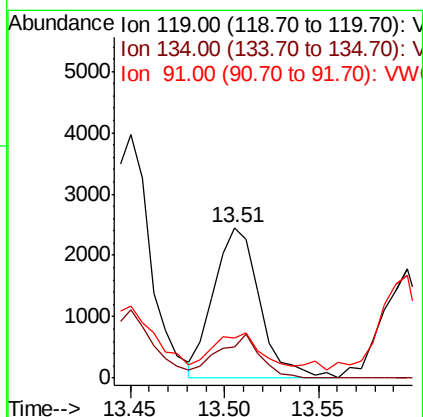
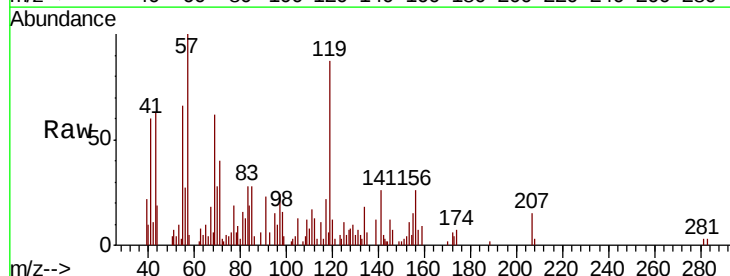
Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-090718-C

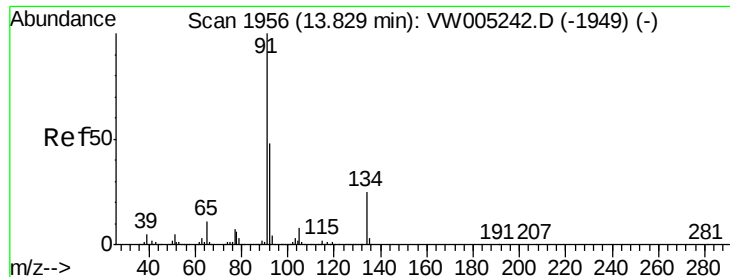
Tgt Ion:105 Resp: 3995
 Ion Ratio Lower Upper
 105 100
 134 35.7 9.9 29.7#



#86
 p-Isopropyltoluene
 Concen: 3.402 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

Tgt Ion:119 Resp: 4157
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.2 39.5
 91 19.5 10.7 32.1





#89

n-Butylbenzene

Concen: 2.798 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW005290.D

Acq: 11 Sep 2018 21:25

Instrument :

MSVOA_W

ClientSampleId :

HR-05-090718-C

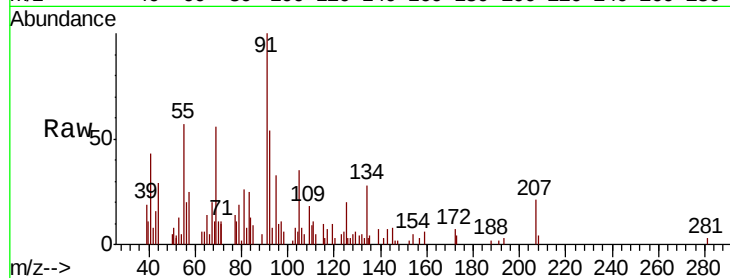
Tgt Ion: 91 Resp: 3214

Ion Ratio Lower Upper

91 100

92 68.7 25.8 77.3

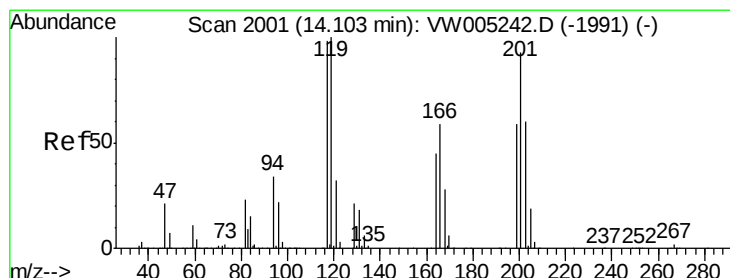
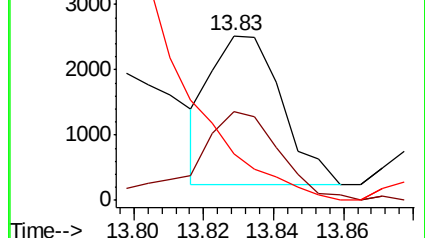
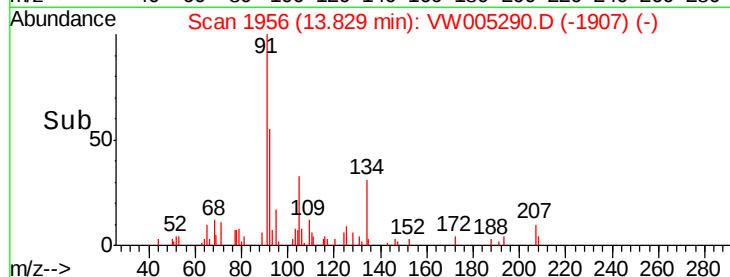
134 0.0 13.6 40.8#



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: 9.486 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW005290.D

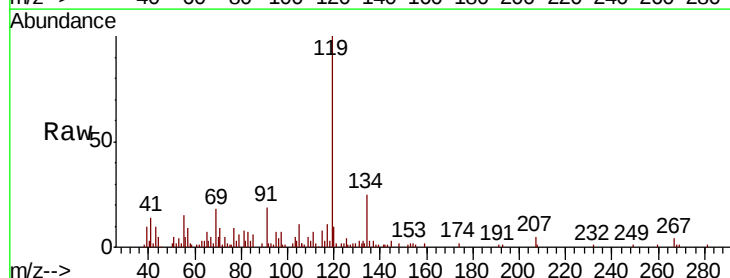
Acq: 11 Sep 2018 21:25

Tgt Ion: 117 Resp: 1857

Ion Ratio Lower Upper

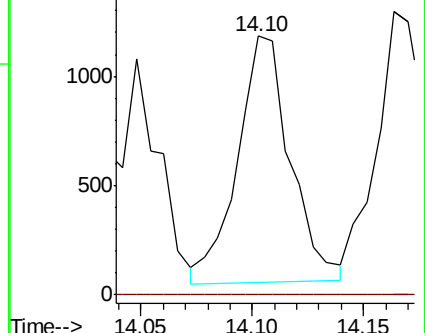
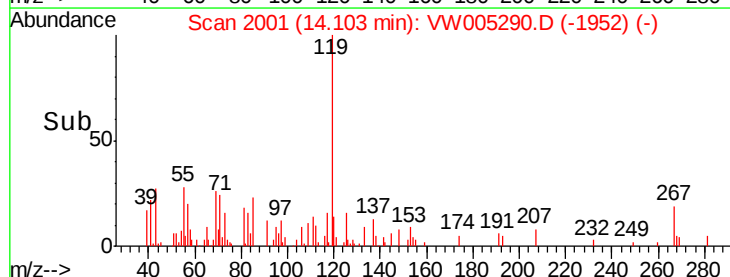
117 100

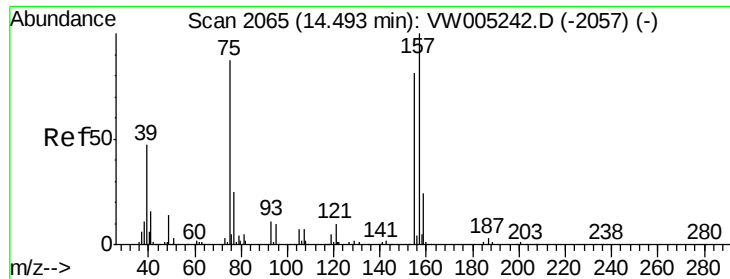
201 0.0 44.0 132.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

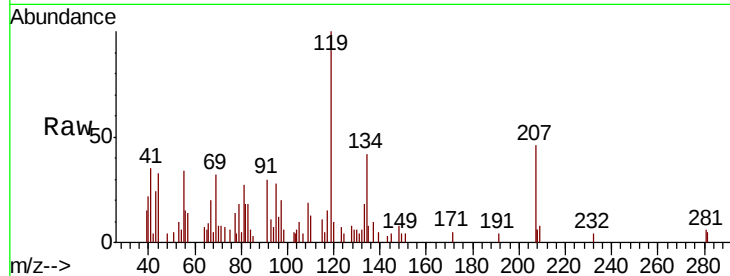




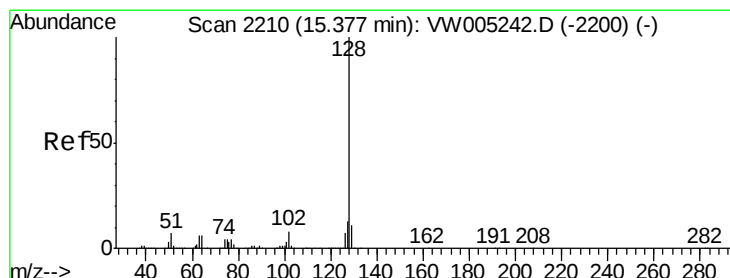
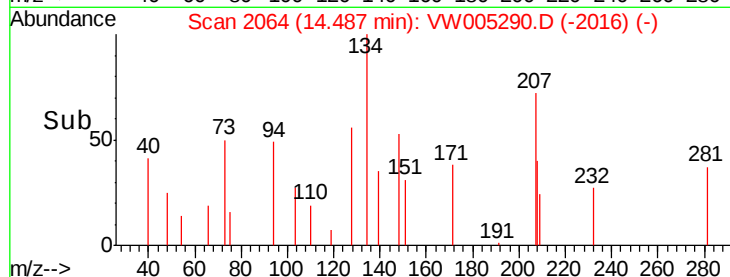
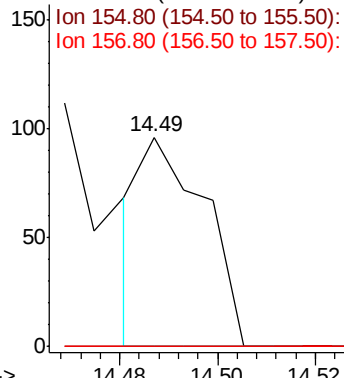
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.668 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.01 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-090718-C

Tgt Ion: 75 Resp: 86
 Ion Ratio Lower Upper
 75 100
 155 0.0 47.4 142.2#
 157 0.0 59.4 178.2#

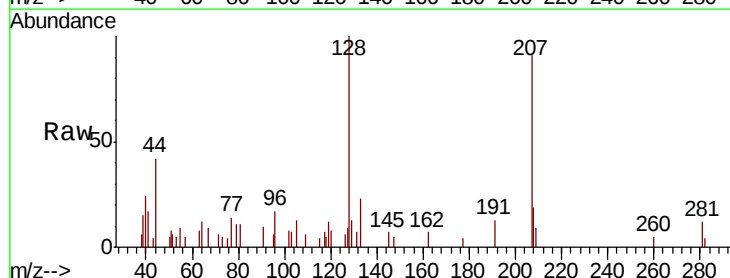


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



#95
 Naphthalene
 Concen: 4.069 ug/l
 RT: 15.38 min Scan# 2211
 Delta R.T. 0.01 min
 Lab File: VW005290.D
 Acq: 11 Sep 2018 21:25

Tgt Ion: 128 Resp: 2617
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.3 15.5
 129 15.4 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

