

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW010319\
 Data File : VW008030.D
 Acq On : 03 Jan 2019 19:24
 Operator : SY/AP
 Sample : K1016-01RE
 Misc : 8.72G/5ML/MSVOA_W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TR-04-010219RE

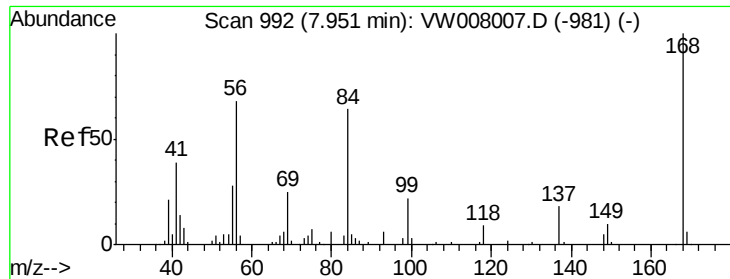
Quant Time: Jan 04 00:33:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010219S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 03 05:03:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	55594	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	100063	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	68551	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	23149	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	38703	62.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.88%	
35) Dibromofluoromethane	7.88	113	32366	51.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.62%	
50) Toluene-d8	10.32	98	109095	46.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.20%	
62) 4-Bromofluorobenzene	12.62	95	27400	30.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	60.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.12	43	4174	43.852	ug/l	98
25) 2-Butanone	7.18	43	390	3.478	ug/l	93
31) Cyclohexane	7.94	56	1357	1.444	ug/l #	9
36) 1,1-Dichloropropene	7.95	75	4589	4.649	ug/l #	48
37) Ethyl Acetate	7.18	43	390	1.315	ug/l #	67
38) Carbon Tetrachloride	7.95	117	6089	5.147	ug/l #	16
52) Toluene	10.39	92	7660	4.456	ug/l	99
67) Ethyl Benzene	11.73	91	4496	1.729	ug/l	99
68) m/p-Xylenes	11.84	106	8410	8.365	ug/l	98
69) o-Xylene	12.16	106	5601	5.987	ug/l	94
73) Isopropylbenzene	12.46	105	2414	1.311	ug/l	99
74) N-amyl acetate	12.25	43	2555	8.917	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.69	83	332	1.418	ug/l #	26
76) 1,2,3-Trichloropropane	12.87	75	494	2.682	ug/l #	1
78) n-propylbenzene	12.80	91	10318	4.835	ug/l	96
79) 2-Chlorotoluene	12.87	91	4012	3.253	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.94	105	15182	9.582	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	15296	196.418	ug/l #	6
82) 4-Chlorotoluene	12.94	91	1783	1.359	ug/l #	41
83) tert-Butylbenzene	13.25	119	8405	6.063	ug/l #	68
84) 1,2,4-Trimethylbenzene	13.26	105	71044	44.267	ug/l	96
85) sec-Butylbenzene	13.39	105	5269	2.763	ug/l	80
86) p-Isopropyltoluene	13.50	119	4517	2.626	ug/l	90
89) n-Butylbenzene	13.83	91	12084	7.680	ug/l #	67
90) Hexachloroethane	14.10	117	2025	6.785	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.51	75	123	2.587	ug/l #	2
95) Naphthalene	15.37	128	4595	5.476	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008030.D

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MSVOA_W

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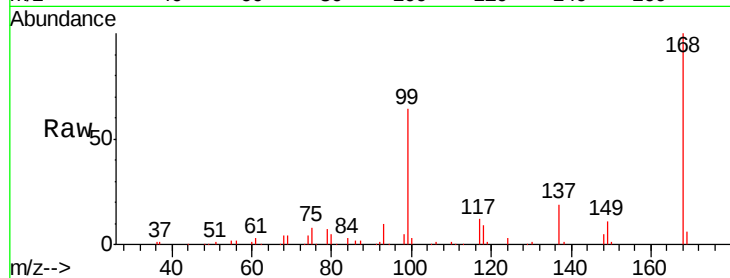
TR-04-010219RE

Tgt Ion:168 Resp: 55594

Ion Ratio Lower Upper

168 100

99 64.2 51.6 77.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

25000

20000

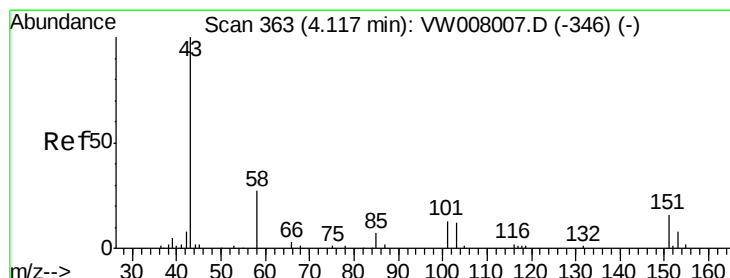
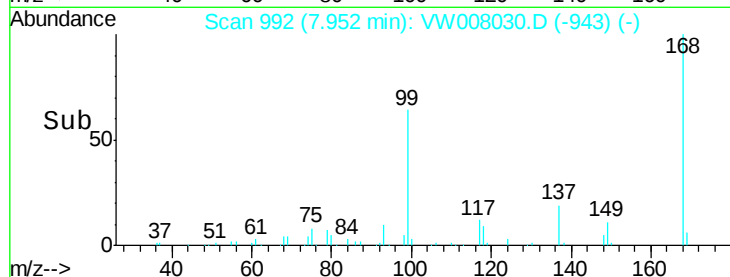
15000

10000

5000

0

Time-->



#16

Acetone

Concen: 43.852 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW008030.D

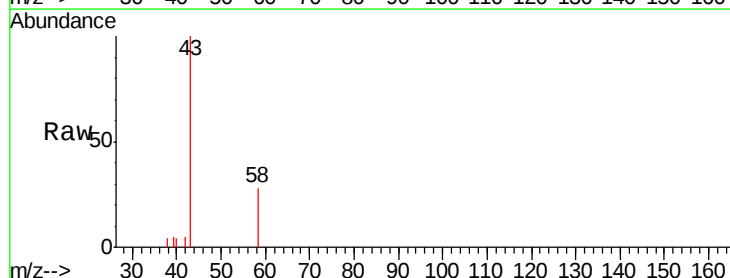
Acq: 03 Jan 2019 19:24

Tgt Ion: 43 Resp: 4174

Ion Ratio Lower Upper

43 100

58 28.2 21.7 32.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

2000

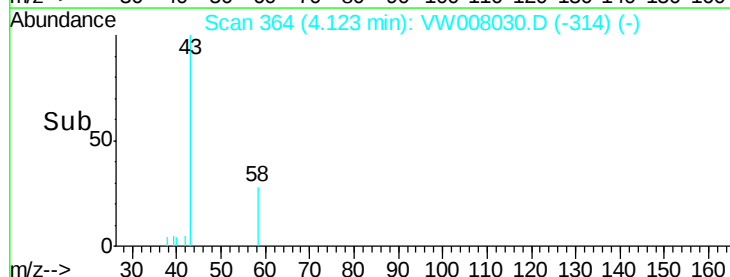
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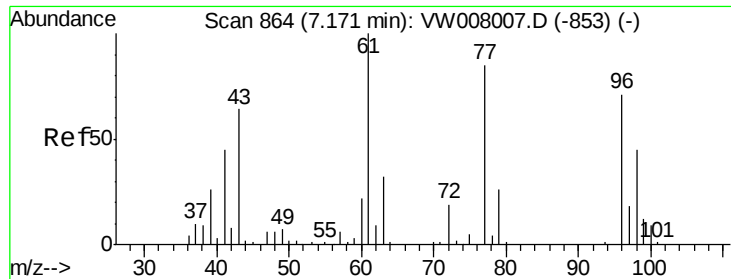
1000

500

0

Time-->

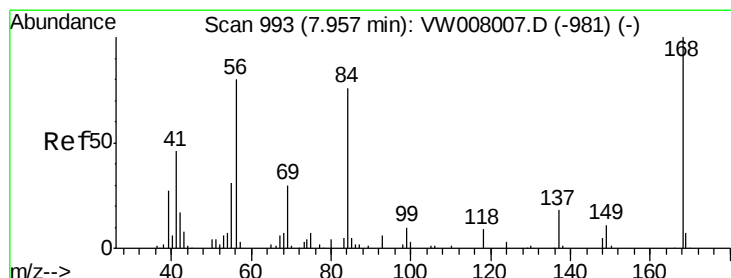
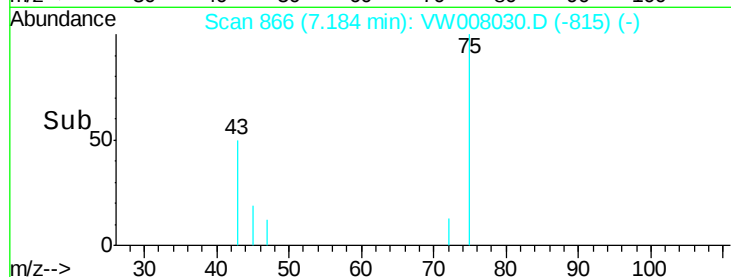
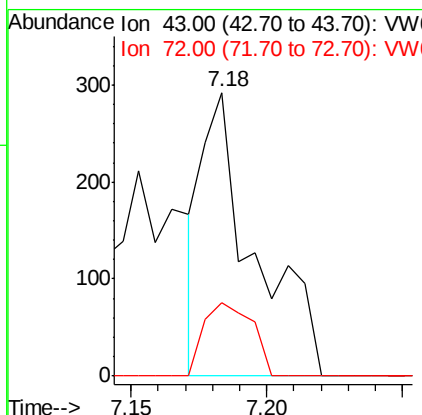
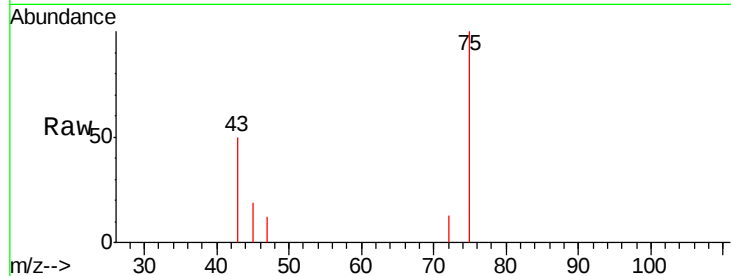




#25
2-Butanone
Concen: 3.478 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

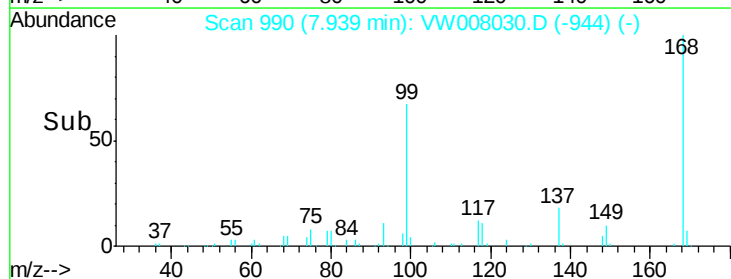
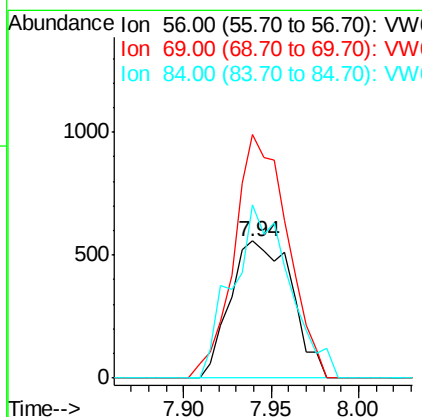
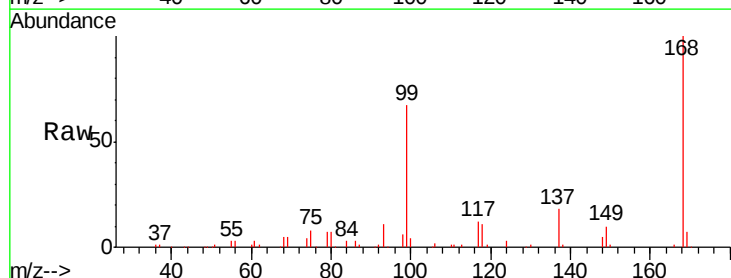
Instrument :
MSVOA_W
ClientSampleId :
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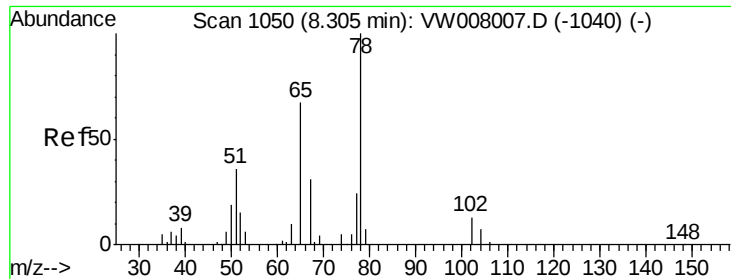
Tgt Ion: 43 Resp: 390
Ion Ratio Lower Upper
43 100
72 26.0 23.8 35.8



#31
Cyclohexane
Concen: 1.444 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Tgt Ion: 56 Resp: 1357
Ion Ratio Lower Upper
56 100
69 177.7 29.8 44.6#
84 126.4 75.2 112.8#





#33

1,2-Dichloroethane-d4

Concen: 62.942 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Instrument :

MSVOA_W

ClientSampleId :

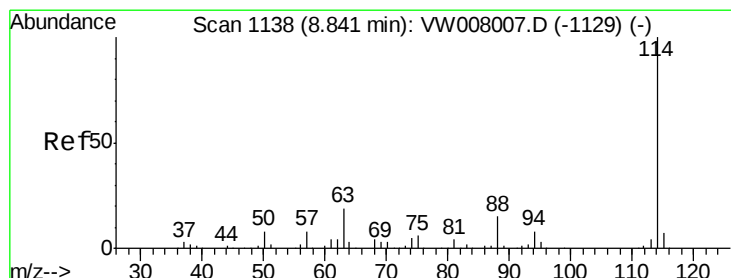
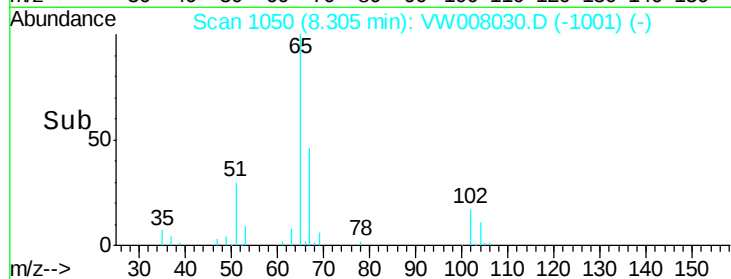
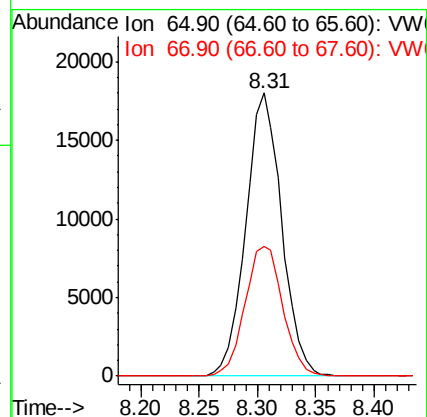
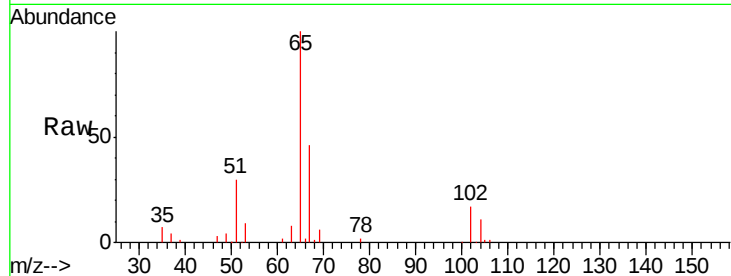
TR-04-010219RE

Tgt Ion: 65 Resp: 38703

Ion Ratio Lower Upper

65 100

67 48.2 0.0 94.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

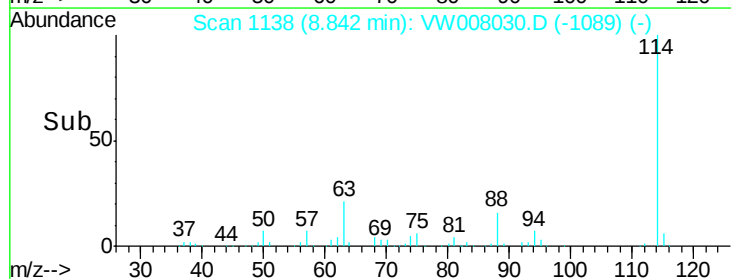
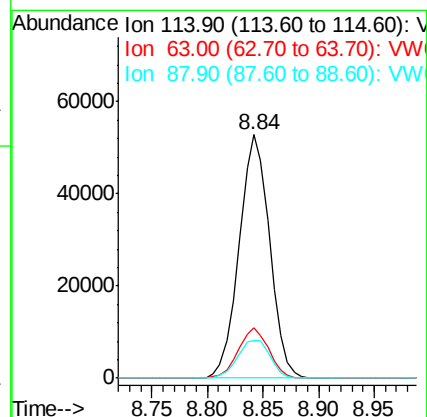
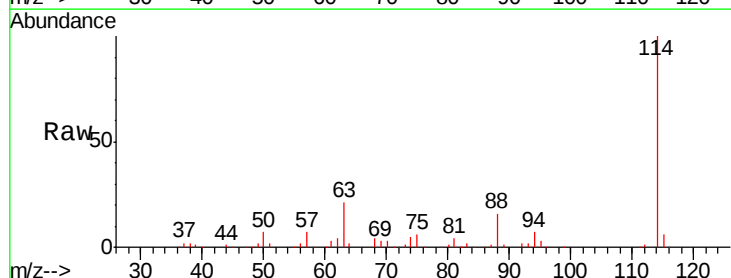
Tgt Ion: 114 Resp: 100063

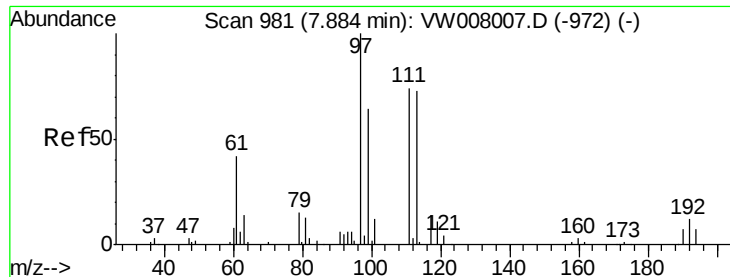
Ion Ratio Lower Upper

114 100

63 20.7 0.0 37.8

88 15.6 0.0 31.0





#35

Dibromofluoromethane

Concen: 51.309 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Instrument :

MSVOA_W

ClientSampleId :

TR-04-010219RE

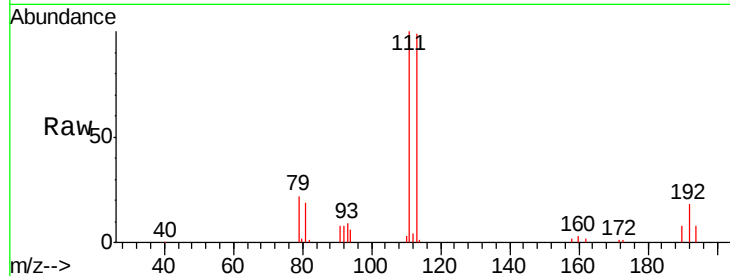
Tgt Ion:113 Resp: 32366

Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.0

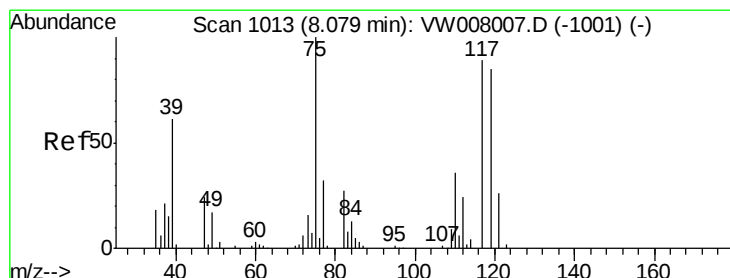
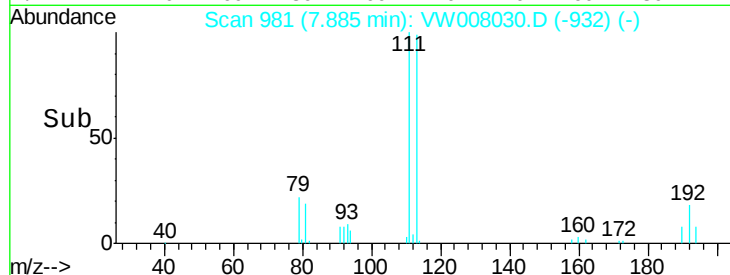
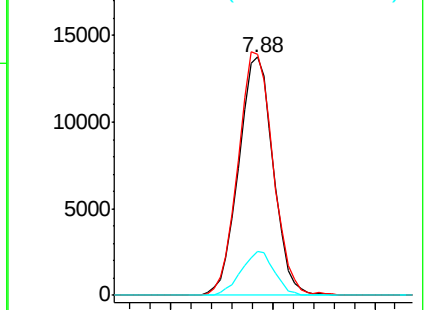
192 17.5 14.8 22.2



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: 4.649 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

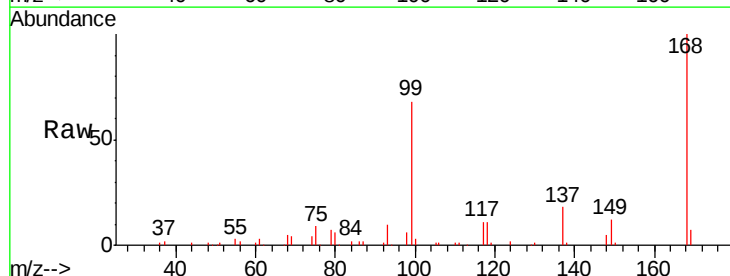
Tgt Ion: 75 Resp: 4589

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.3#

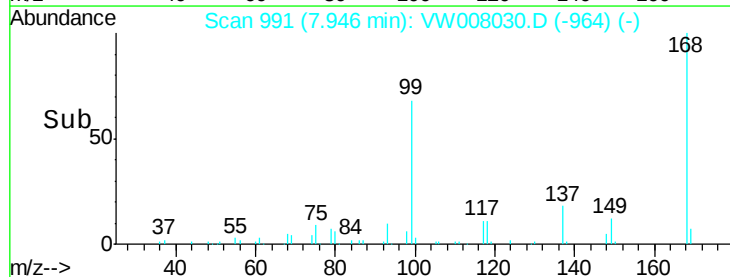
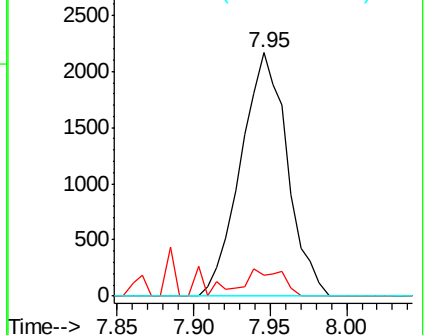
77 0.0 25.3 37.9#

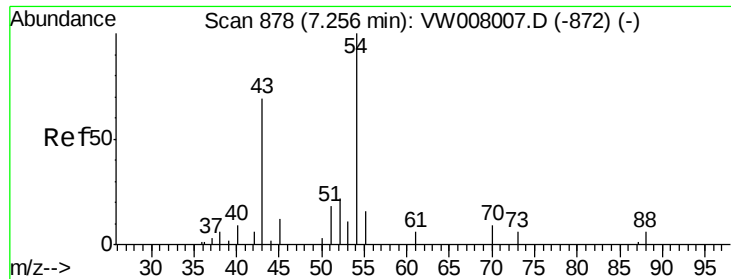


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

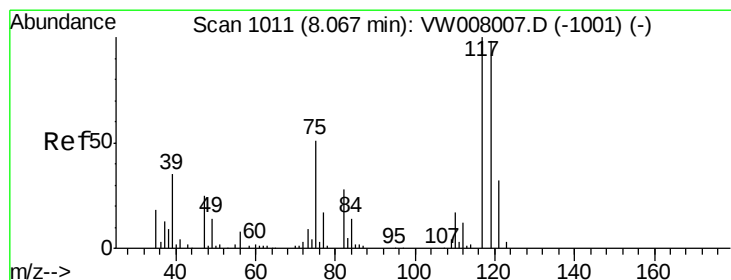
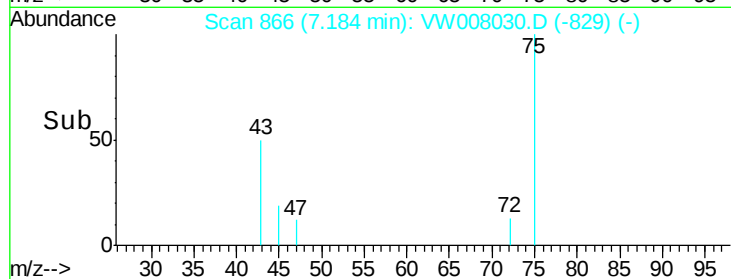
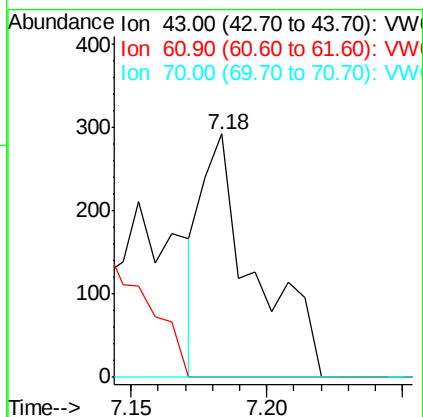
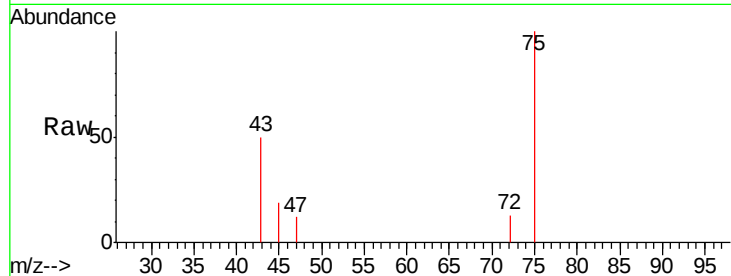




#37
 Ethyl Acetate
 Concen: 1.315 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.07 min
 Lab File: VW008030.D
 Acq: 03 Jan 2019 19:24

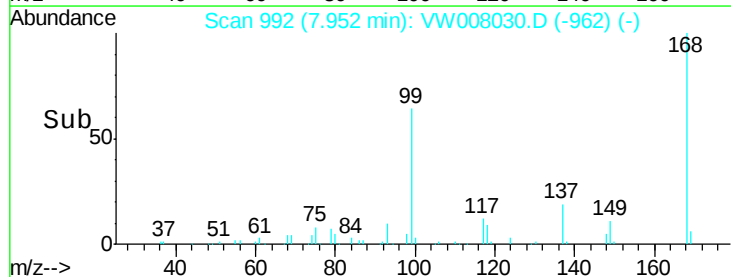
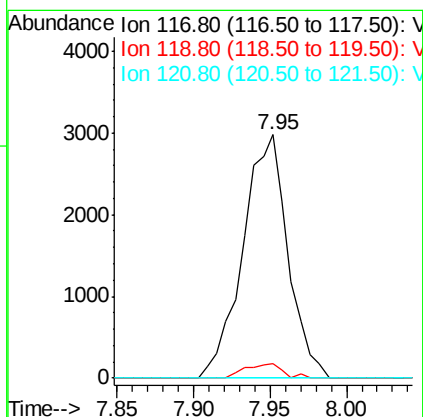
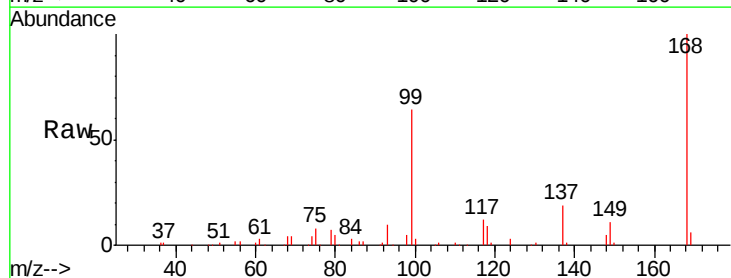
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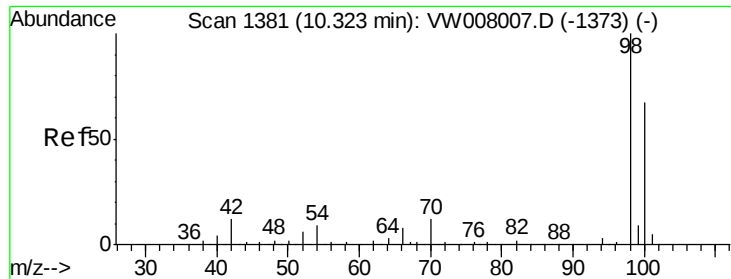
Tgt Ion: 43 Resp: 390
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.2#
 70 0.0 9.4 14.0#



#38
 Carbon Tetrachloride
 Concen: 5.147 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW008030.D
 Acq: 03 Jan 2019 19:24

Tgt Ion: 117 Resp: 6089
 Ion Ratio Lower Upper
 117 100
 119 6.1 78.7 118.1#
 121 0.0 25.8 38.8#

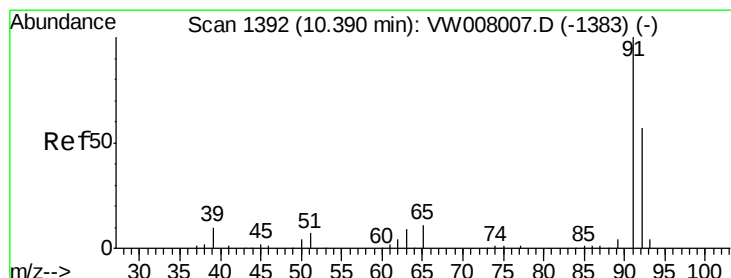
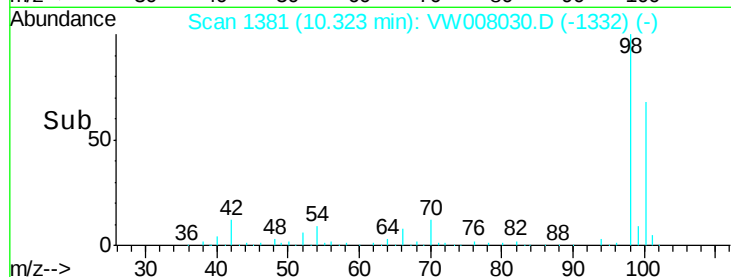
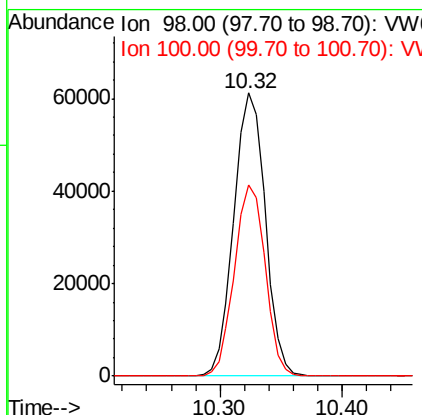
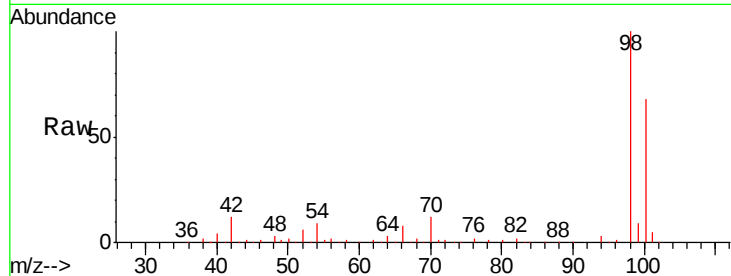




#50
Toluene-d8
Concen: 46.104 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

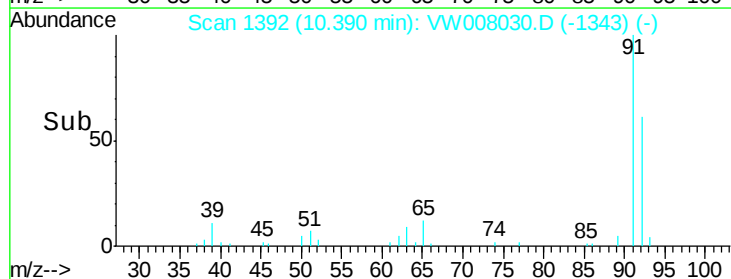
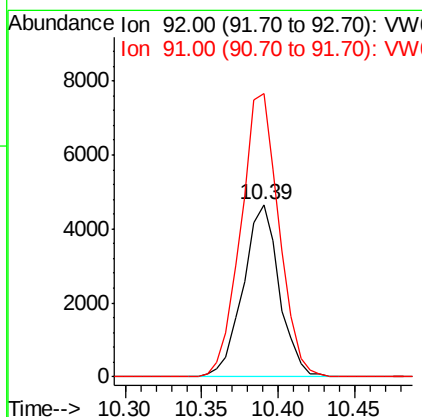
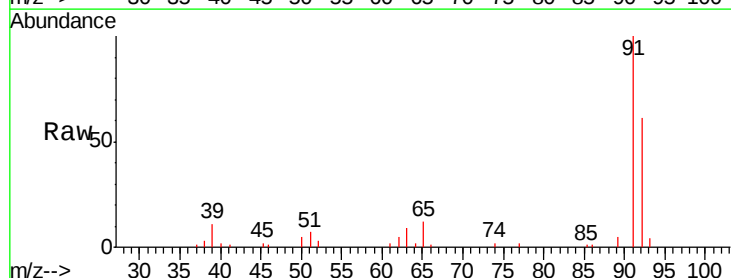
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TR-04-010219RE

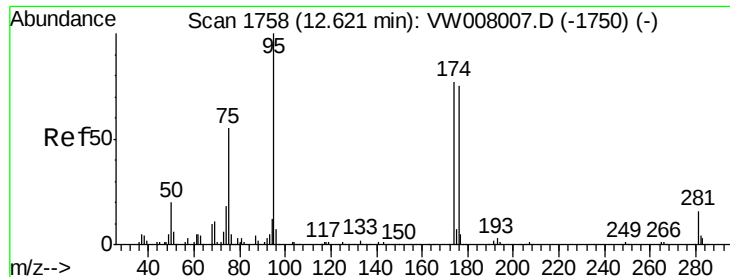
Tgt Ion: 98 Resp: 109095
Ion Ratio Lower Upper
98 100
100 66.3 52.9 79.3



#52
Toluene
Concen: 4.456 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Tgt Ion: 92 Resp: 7660
Ion Ratio Lower Upper
92 100
91 172.5 136.9 205.3





#62

4-Bromofluorobenzene

Concen: 30.193 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Instrument :

MSVOA_W

ClientSampleId :

TR-04-010219RE

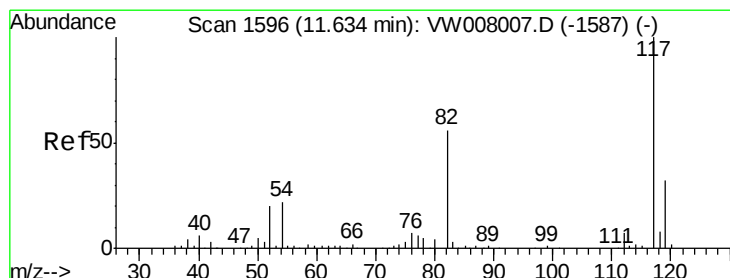
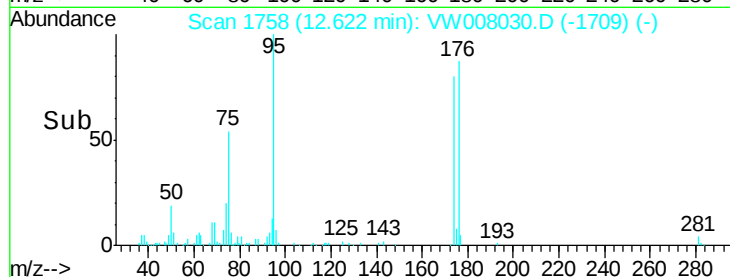
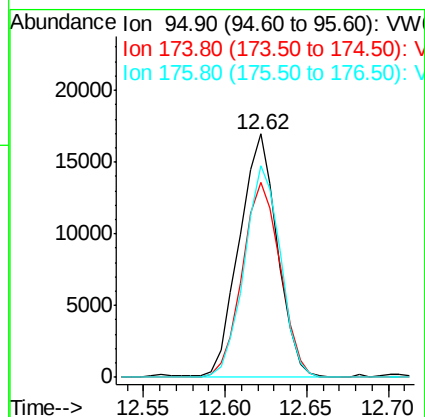
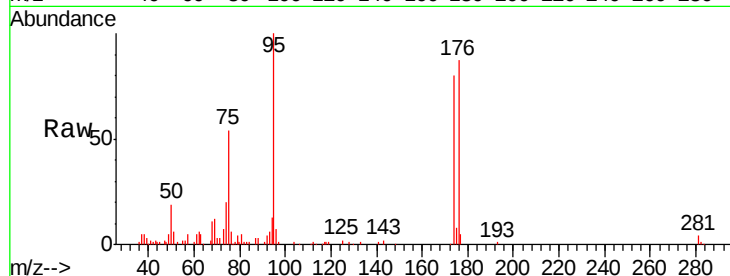
Tgt Ion: 95 Resp: 27400

Ion Ratio Lower Upper

95 100

174 80.7 0.0 149.6

176 82.9 0.0 145.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

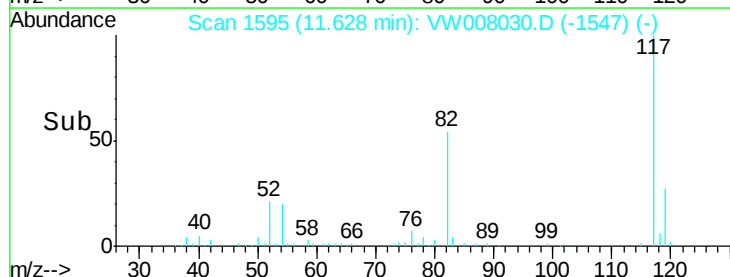
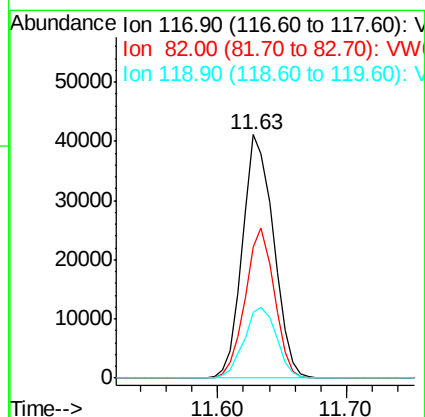
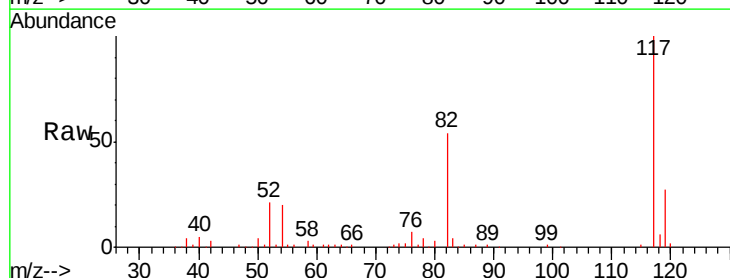
Tgt Ion: 117 Resp: 68551

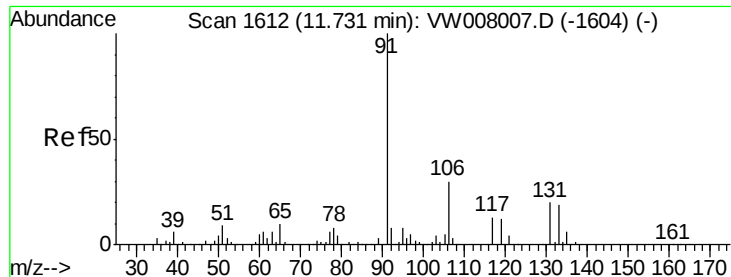
Ion Ratio Lower Upper

117 100

82 54.0 44.8 67.2

119 27.1 25.6 38.4

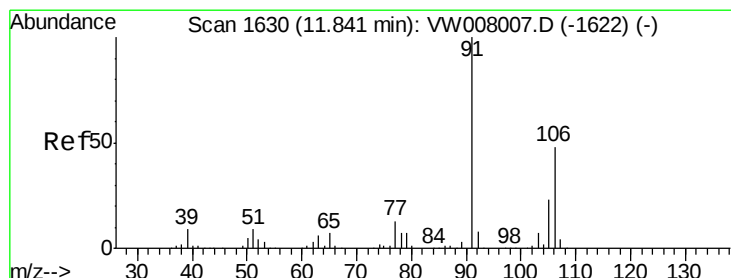
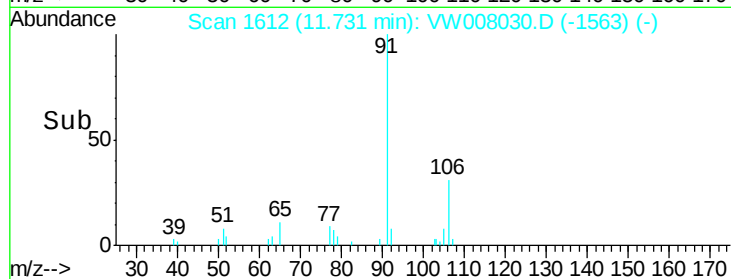
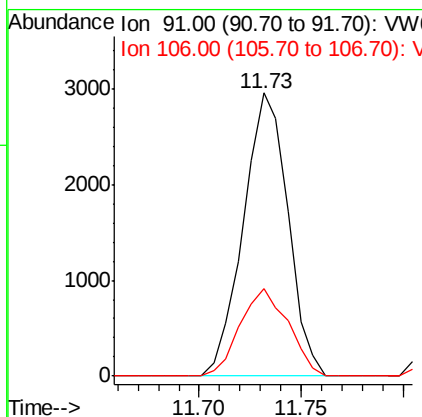
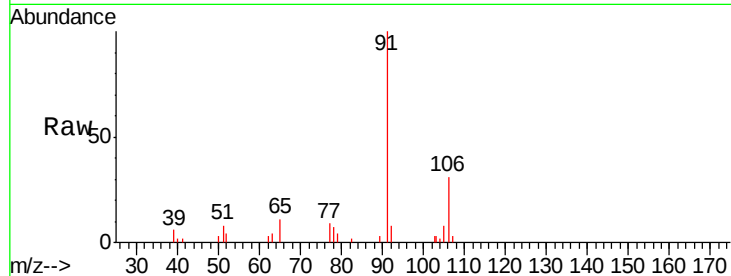




#67
Ethyl Benzene
Concen: 1.729 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

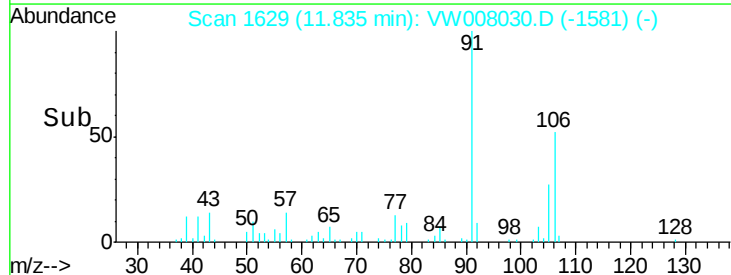
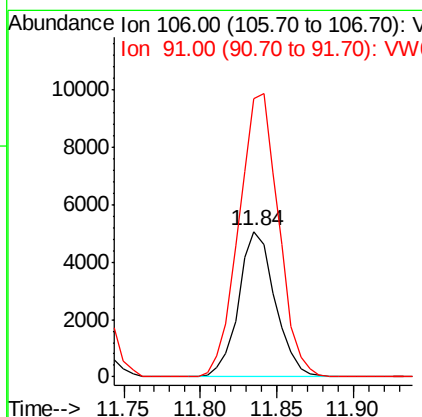
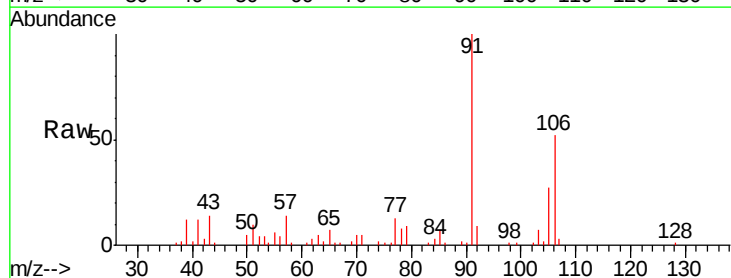
Instrument :
MSVOA_W
ClientSampleId :
TR-04-010219RE

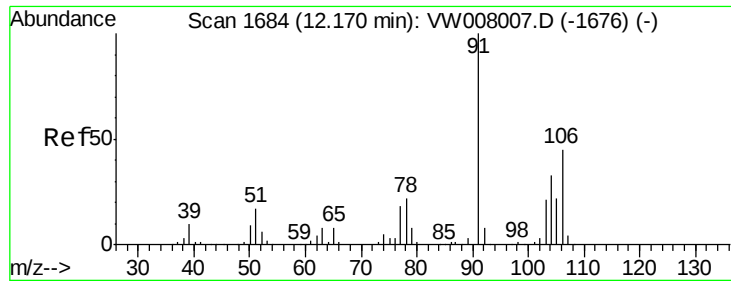
Tgt Ion: 91 Resp: 4496
Ion Ratio Lower Upper
91 100
106 30.9 24.3 36.5



#68
m/p-Xylenes
Concen: 8.365 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Tgt Ion: 106 Resp: 8410
Ion Ratio Lower Upper
106 100
91 211.0 165.8 248.8

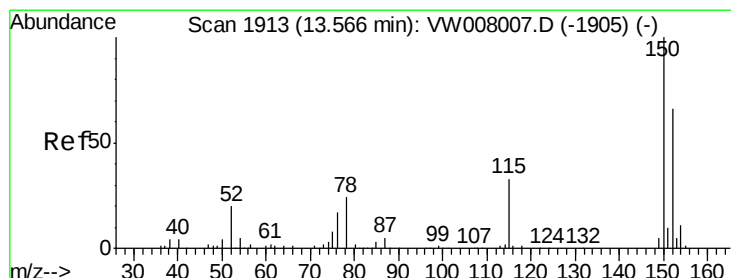
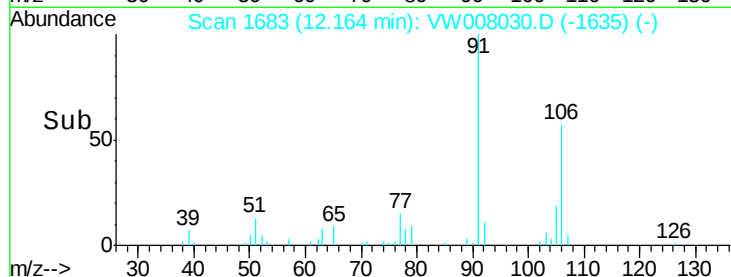
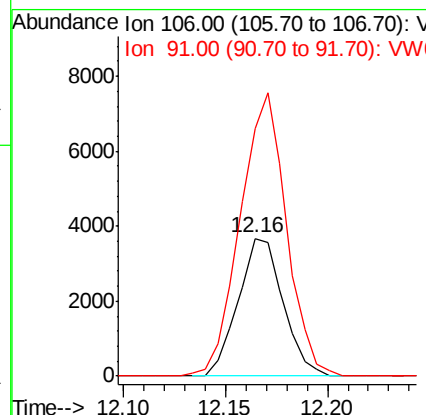
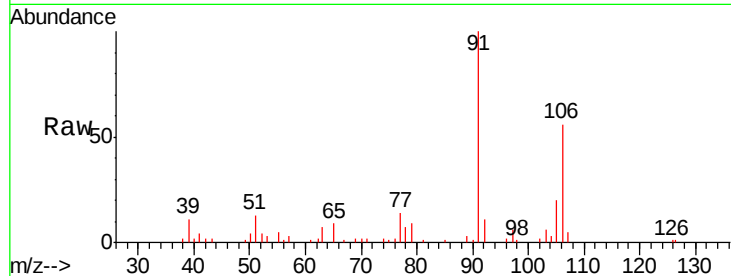




#69
o-Xylene
Concen: 5.987 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

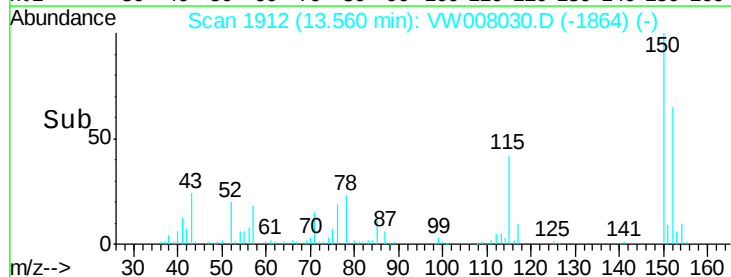
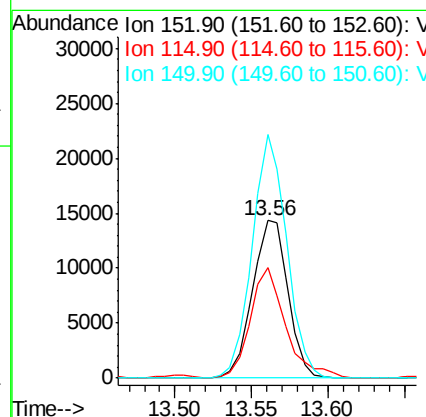
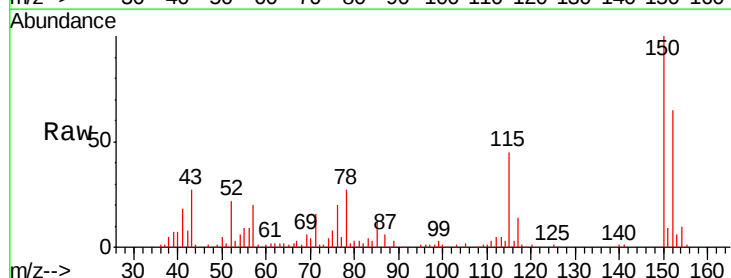
Instrument :
MSVOA_W
ClientSampleId :
TR-04-010219RE

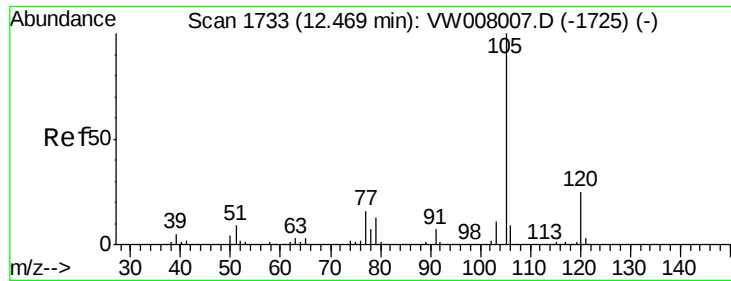
Tgt Ion:106 Resp: 5601
Ion Ratio Lower Upper
106 100
91 211.8 110.6 331.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.01 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Tgt Ion:152 Resp: 23149
Ion Ratio Lower Upper
152 100
115 69.3 32.1 96.5
150 150.2 0.0 345.0





#73

Isopropylbenzene

Concen: 1.311 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Instrument :

MSVOA_W

ClientSampleId :

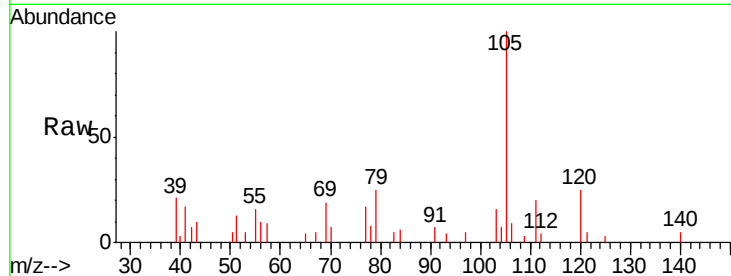
TR-04-010219RE

Tgt Ion:105 Resp: 2414

Ion Ratio Lower Upper

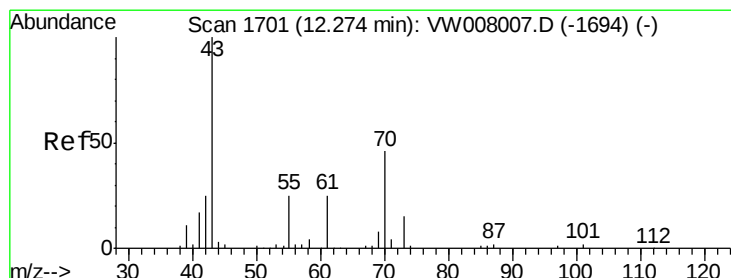
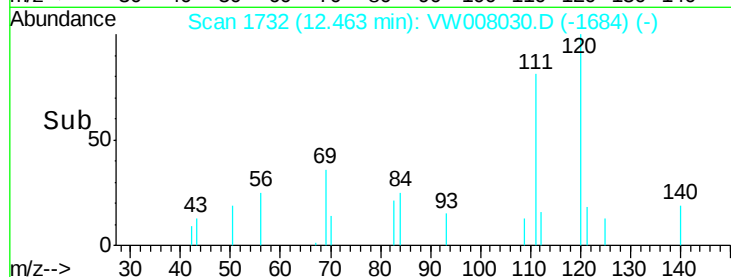
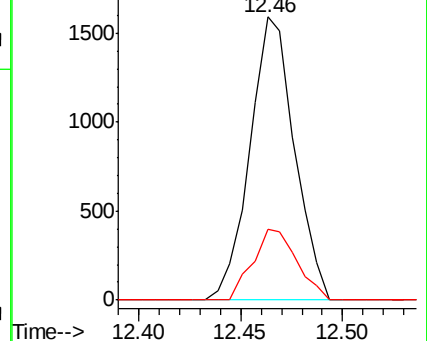
105 100

120 24.8 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 8.917 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Tgt Ion: 43 Resp: 2555

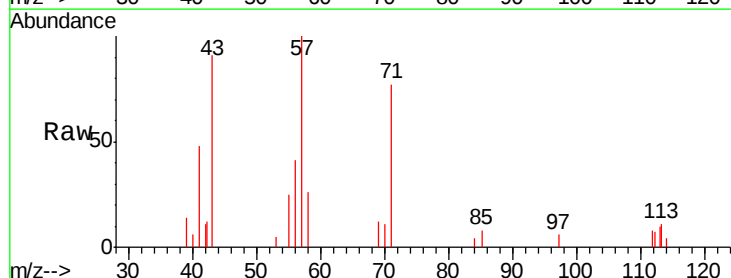
Ion Ratio Lower Upper

43 100

70 15.3 35.2 52.8#

55 17.9 21.4 32.0#

61 0.0 19.4 29.0#

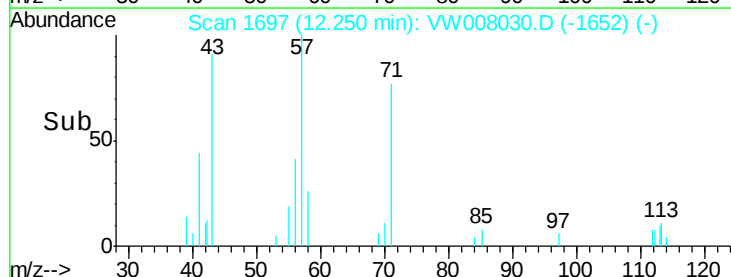
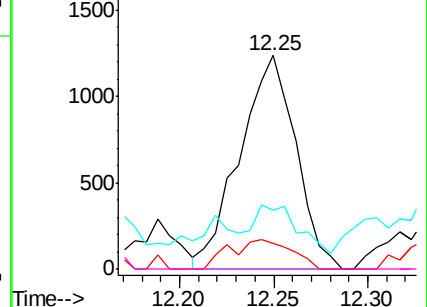


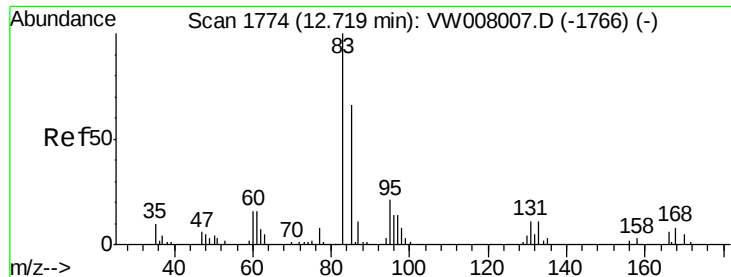
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 1.418 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Instrument :

MSVOA_W

ClientSampled :

TR-04-010219RE

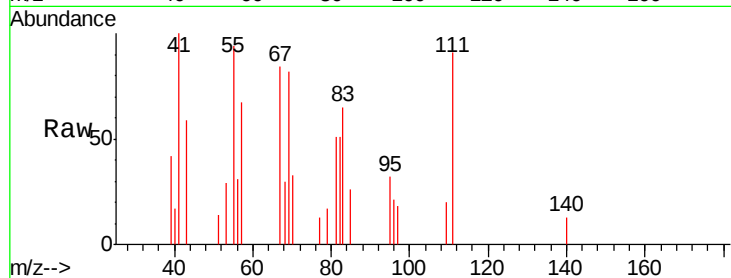
Tgt Ion: 83 Resp: 332

Ion Ratio Lower Upper

83 100

131 0.0 6.5 19.5#

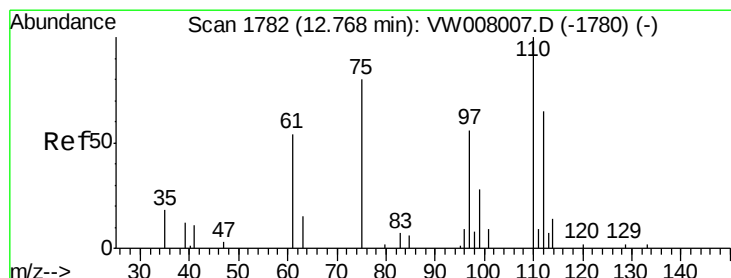
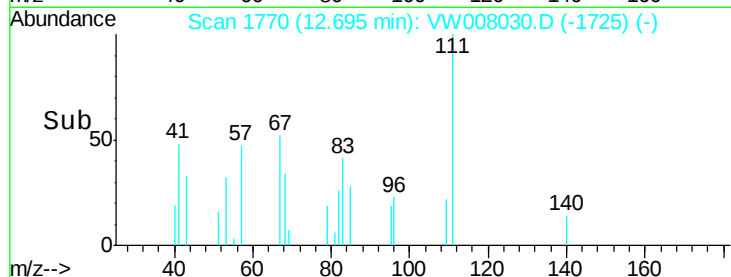
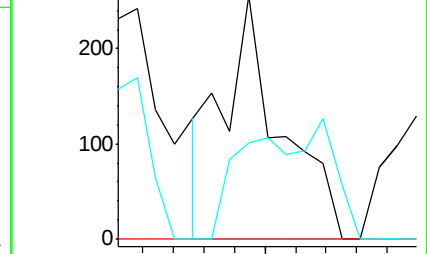
85 0.0 32.8 98.3#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 2.682 ug/l

RT: 12.87 min Scan# 1798

Delta R.T. 0.10 min

Lab File: VW008030.D

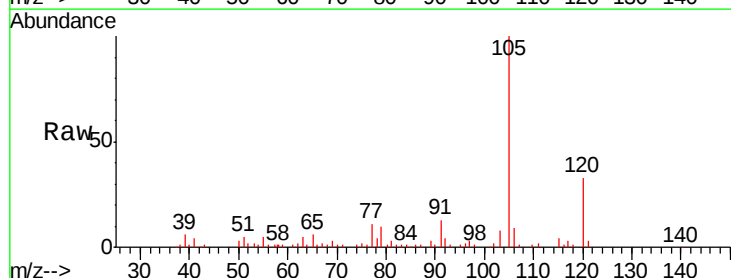
Acq: 03 Jan 2019 19:24

Tgt Ion: 75 Resp: 494

Ion Ratio Lower Upper

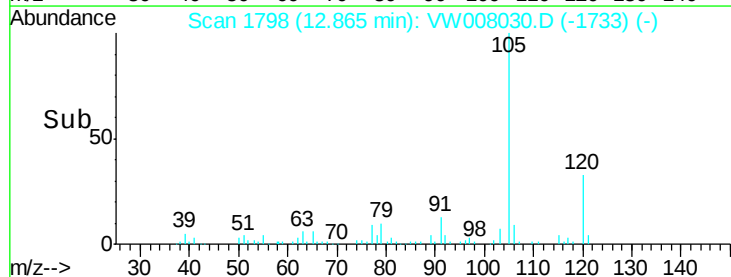
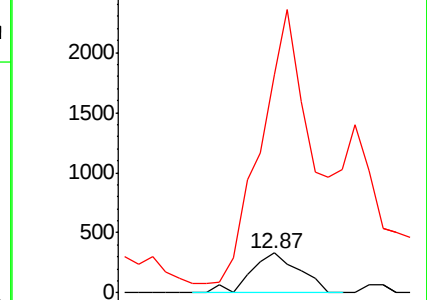
75 100

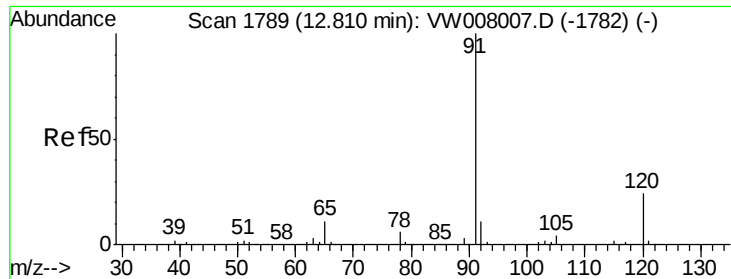
77 756.7 186.2 558.6#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 4.835 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Instrument :

MSVOA_W

ClientSampleId :

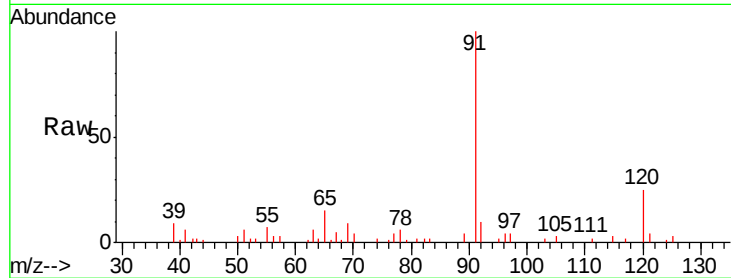
TR-04-010219RE

Tgt Ion: 91 Resp: 10318

Ion Ratio Lower Upper

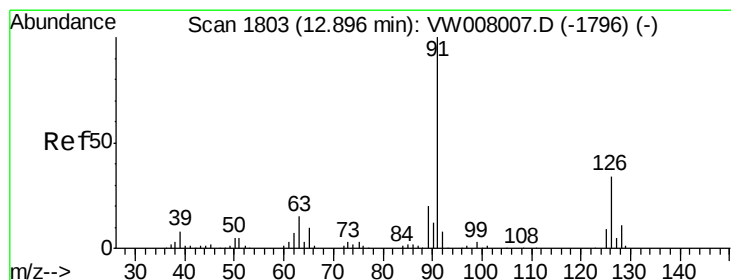
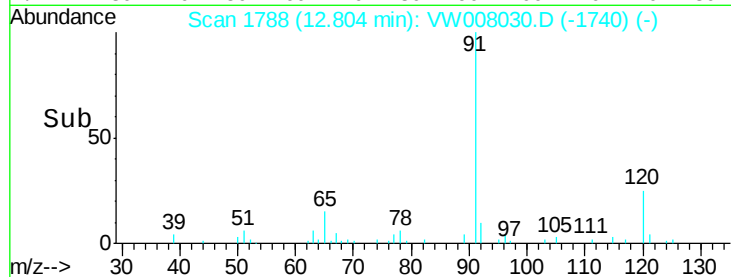
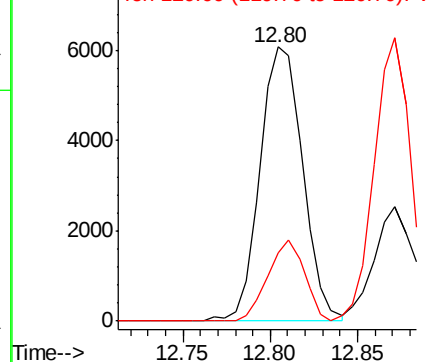
91 100

120 25.2 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 3.253 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.02 min

Lab File: VW008030.D

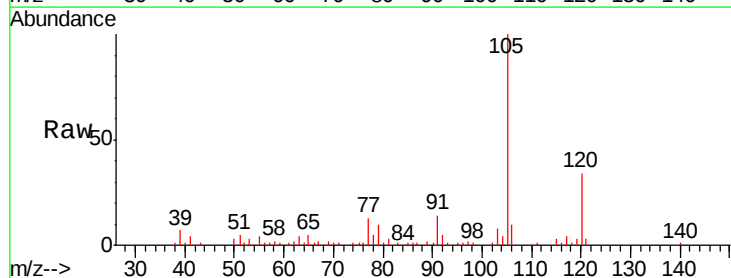
Acq: 03 Jan 2019 19:24

Tgt Ion: 91 Resp: 4012

Ion Ratio Lower Upper

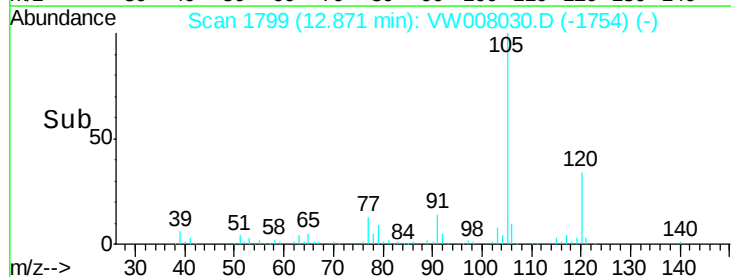
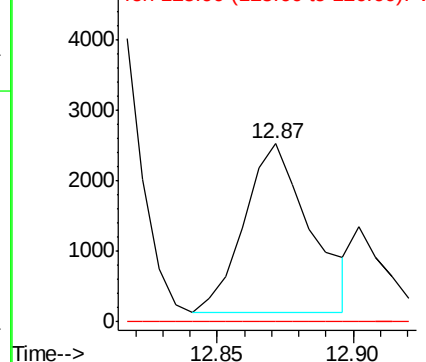
91 100

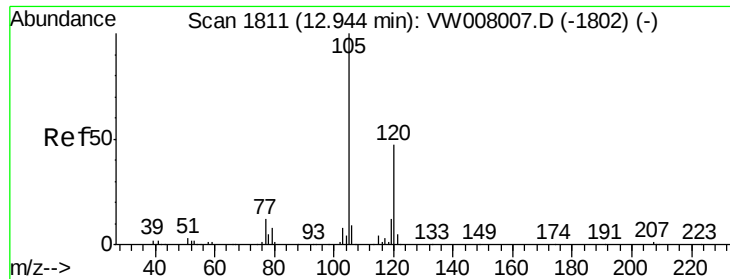
126 0.0 17.1 51.2#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

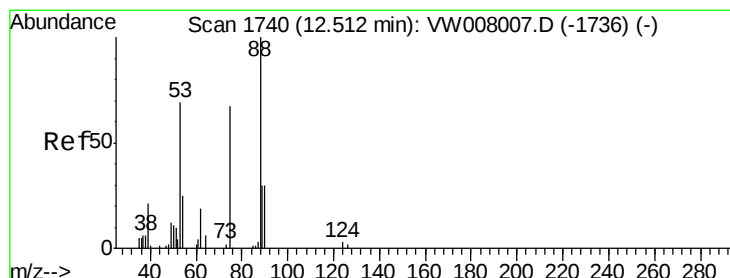
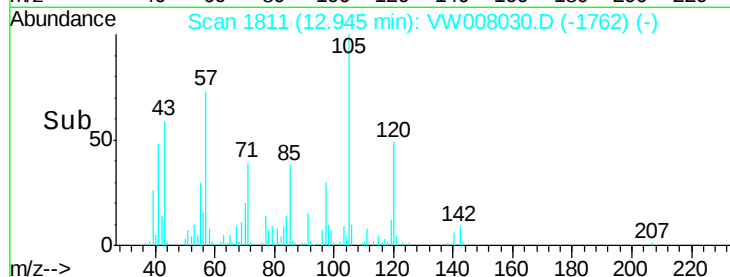
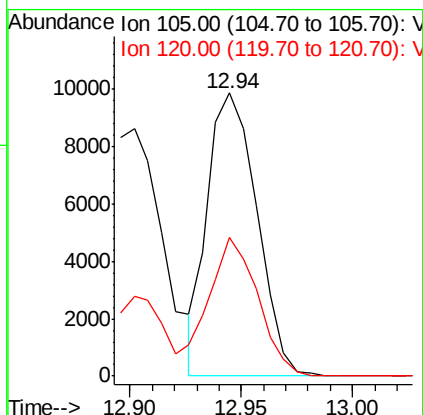
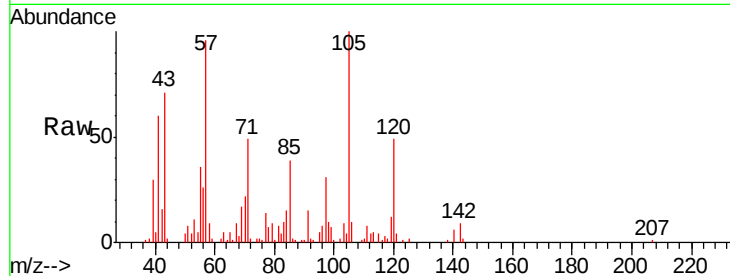




#80
 1,3,5-Trimethylbenzene
 Concen: 9.582 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW008030.D
 Acq: 03 Jan 2019 19:24

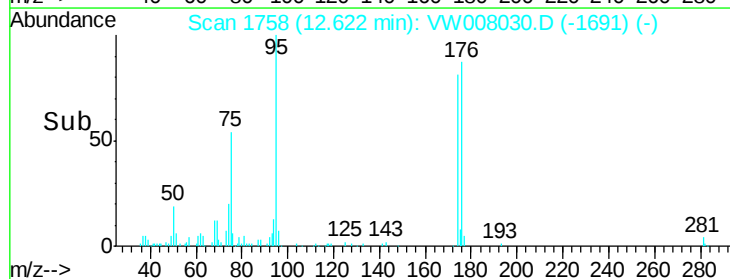
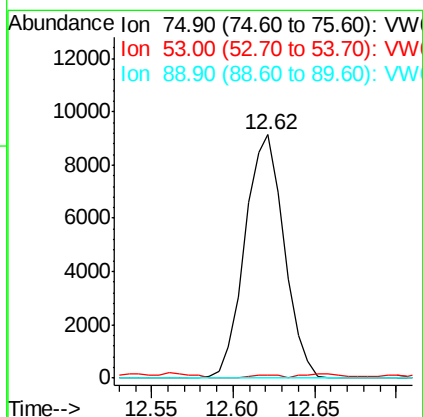
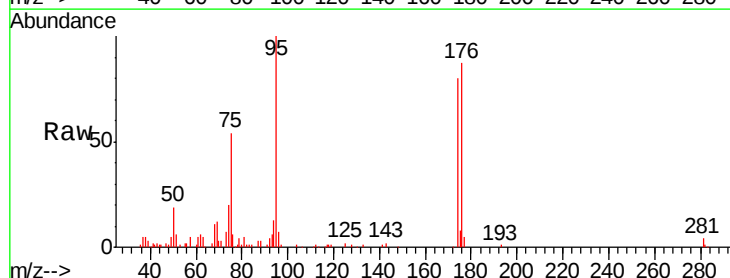
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-04-010219RE

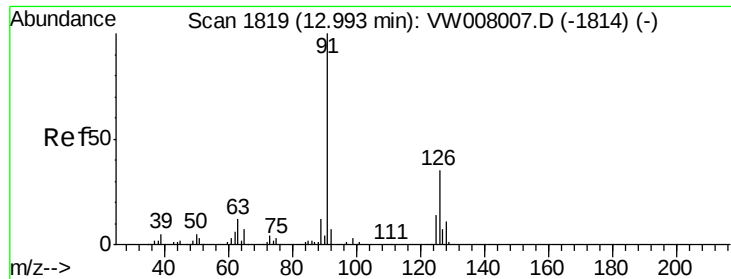
Tgt Ion: 105 Resp: 15182
 Ion Ratio Lower Upper
 105 100
 120 49.7 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 196.418 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW008030.D
 Acq: 03 Jan 2019 19:24

Tgt Ion: 75 Resp: 15296
 Ion Ratio Lower Upper
 75 100
 53 0.8 87.6 131.4#
 89 0.0 42.2 63.2#





#82

4-Chlorotoluene

Concen: 1.359 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.05 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

Instrument :

MSVOA_W

ClientSampleId :

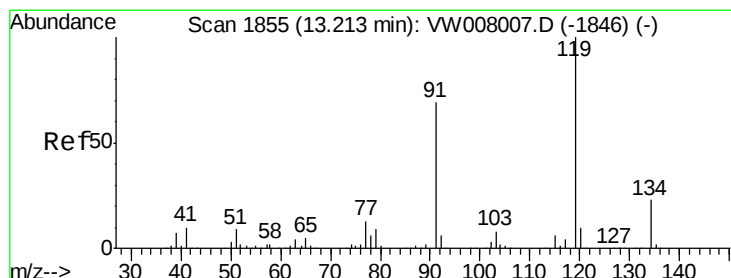
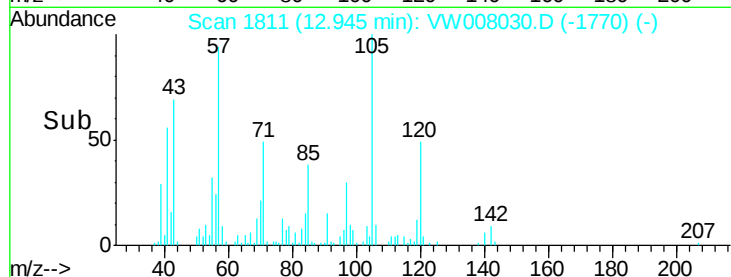
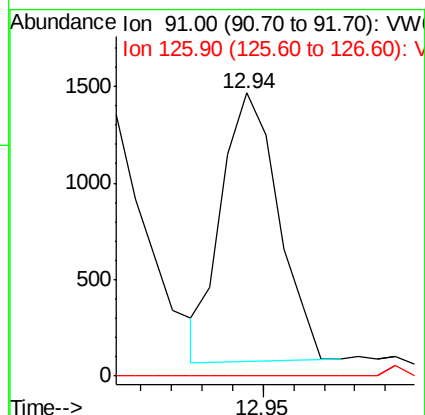
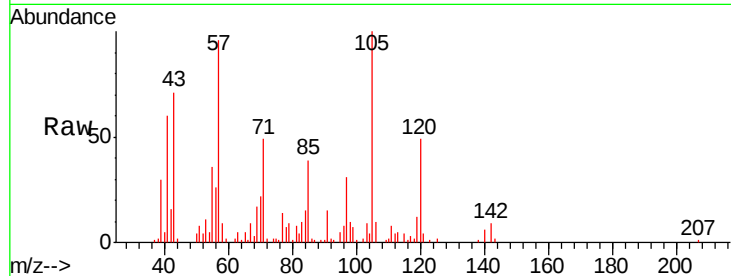
TR-04-010219RE

Tgt Ion: 91 Resp: 1783

Ion Ratio Lower Upper

91 100

126 0.0 16.7 50.1#



#83

tert-Butylbenzene

Concen: 6.063 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. 0.04 min

Lab File: VW008030.D

Acq: 03 Jan 2019 19:24

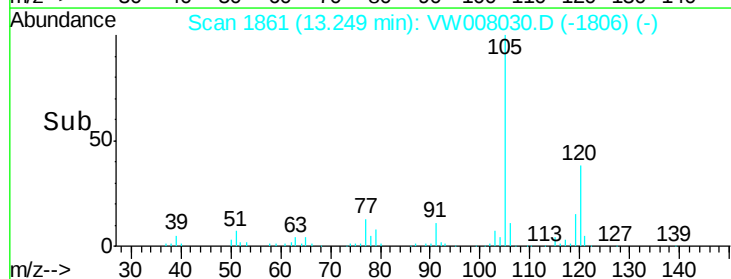
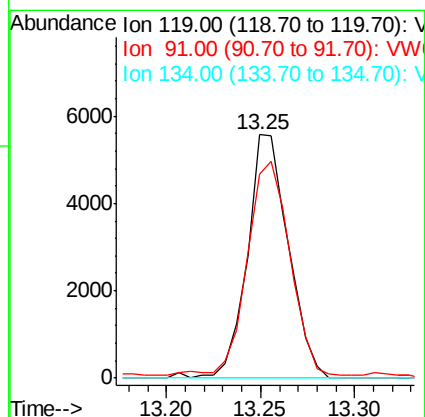
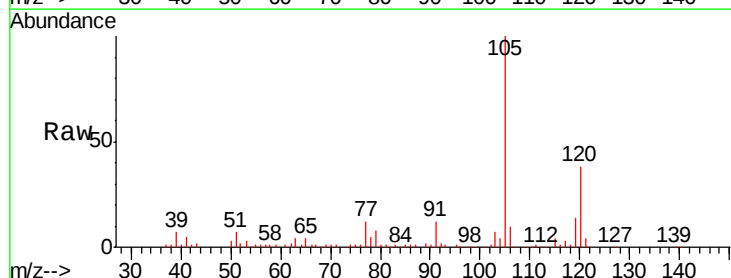
Tgt Ion: 119 Resp: 8405

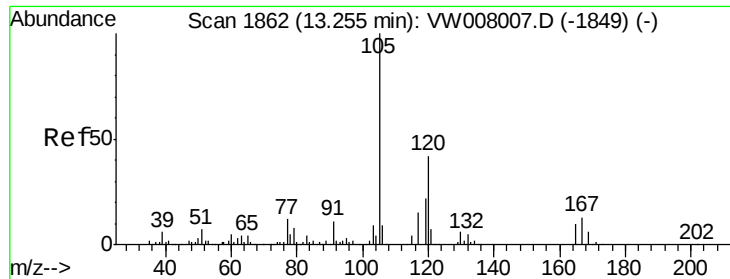
Ion Ratio Lower Upper

119 100

91 91.3 34.7 104.1

134 0.0 11.5 34.4#

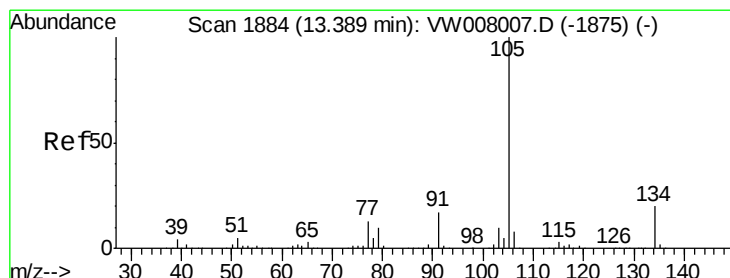
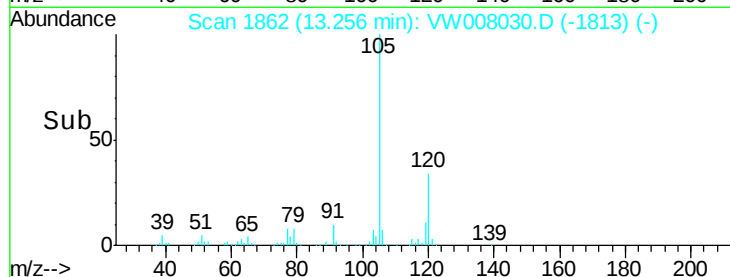
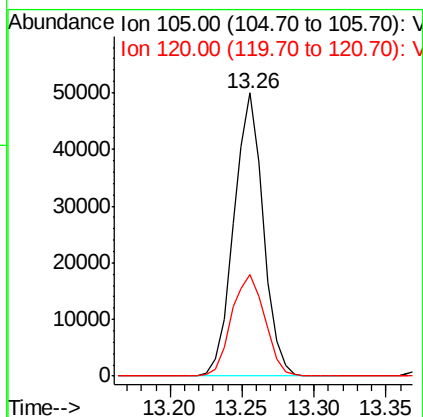
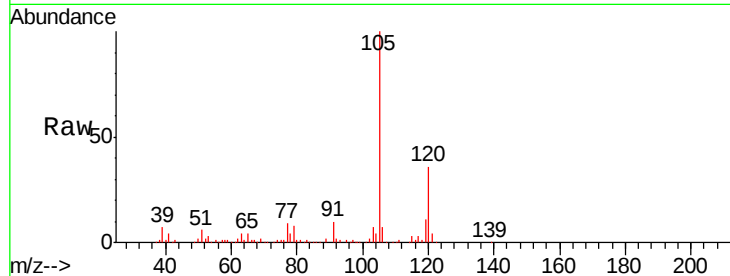




#84
1,2,4-Trimethylbenzene
Concen: 44.267 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

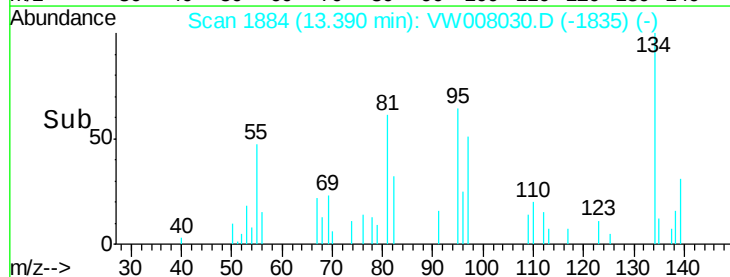
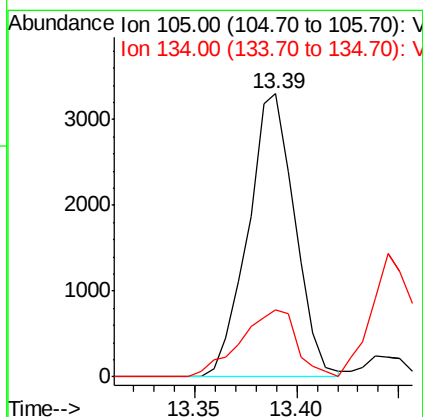
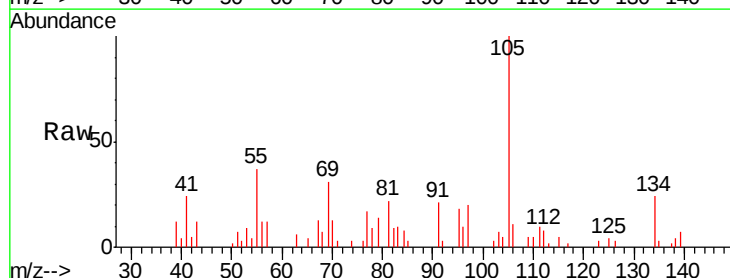
Instrument :
MSVOA_W
ClientSampleId :
TR-04-010219RE

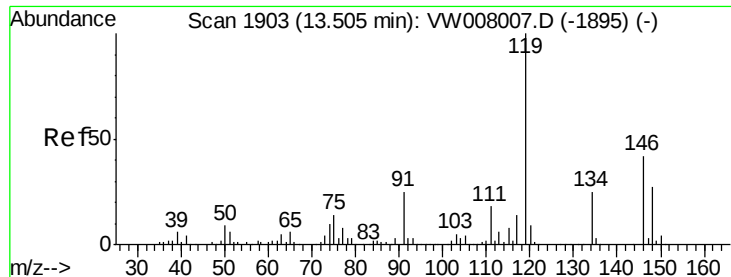
Tgt Ion:105 Resp: 71044
Ion Ratio Lower Upper
105 100
120 40.7 21.5 64.5



#85
sec-Butylbenzene
Concen: 2.763 ug/l
RT: 13.39 min Scan# 1884
Delta R.T. 0.00 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Tgt Ion:105 Resp: 5269
Ion Ratio Lower Upper
105 100
134 28.4 9.7 28.9

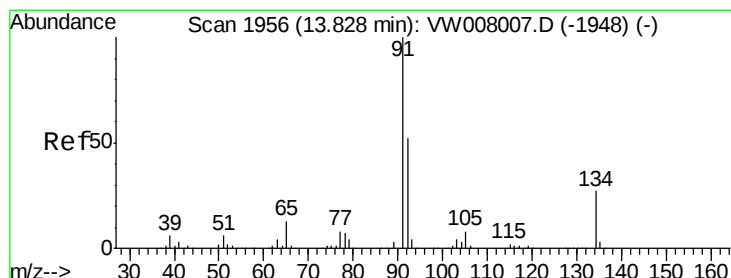
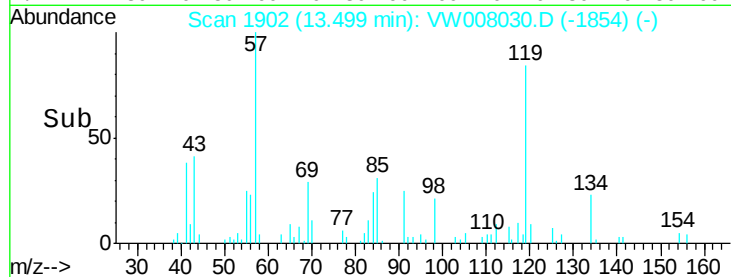
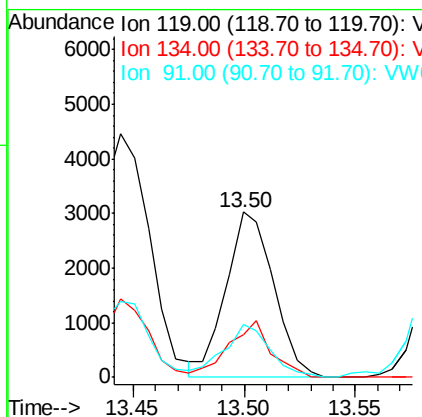
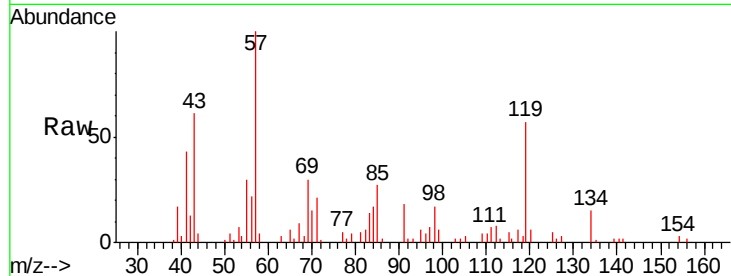




#86
p-Isopropyltoluene
Concen: 2.626 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.01 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

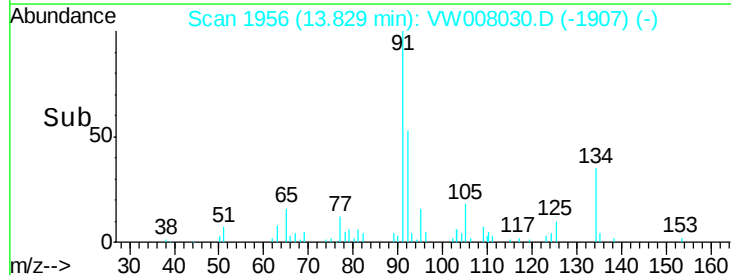
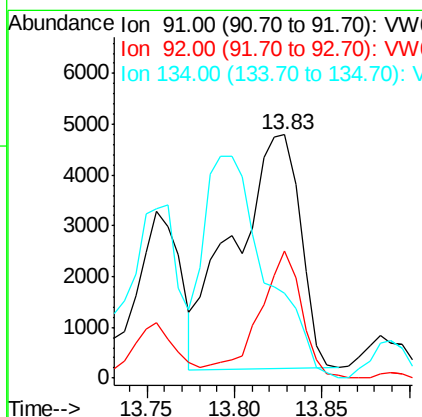
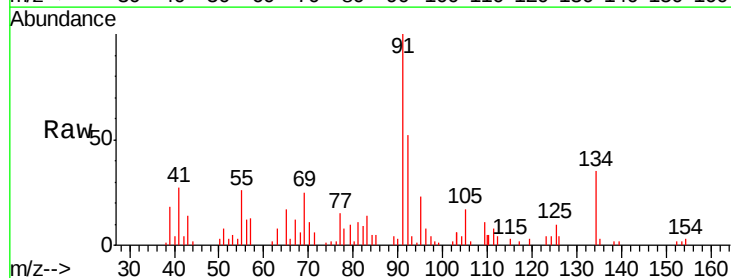
Instrument :
MSVOA_W
ClientSampleId :
TR-04-010219RE

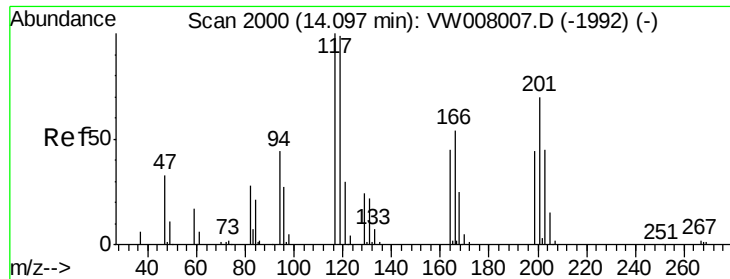
Tgt Ion: 119 Resp: 4517
Ion Ratio Lower Upper
119 100
134 30.4 12.5 37.5
91 31.0 13.1 39.3



#89
n-Butylbenzene
Concen: 7.680 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Tgt Ion: 91 Resp: 12084
Ion Ratio Lower Upper
91 100
92 35.8 26.4 79.2
134 0.0 13.4 40.2#

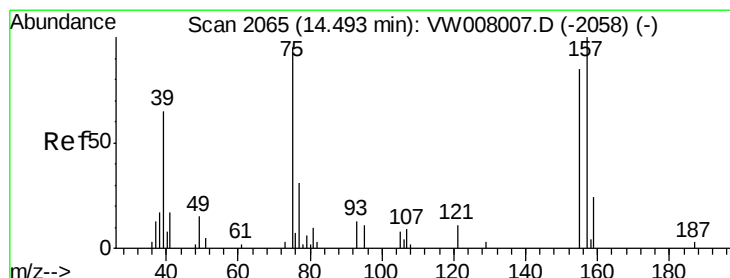
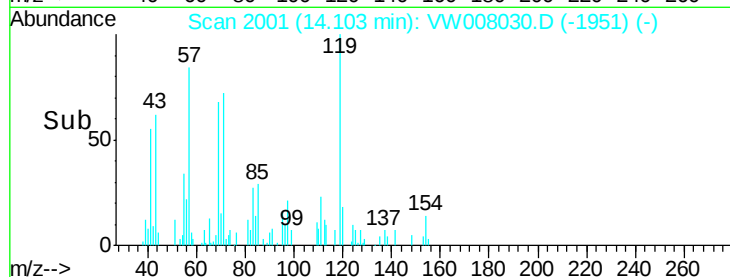
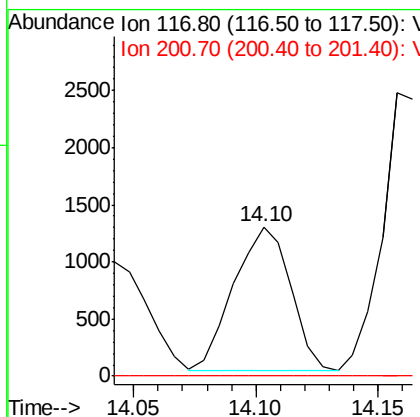
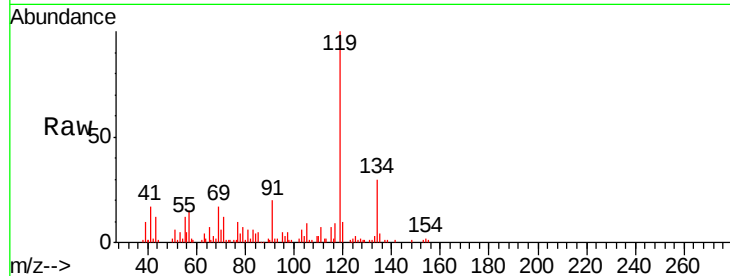




#90
Hexachloroethane
Concen: 6.785 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

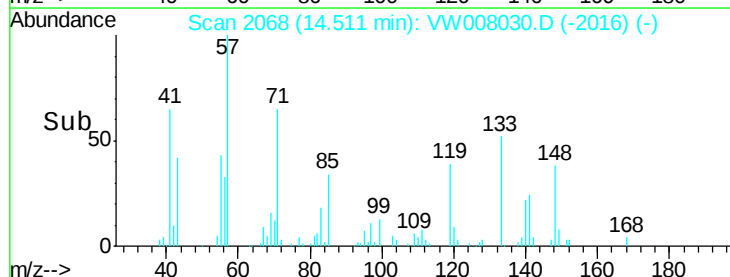
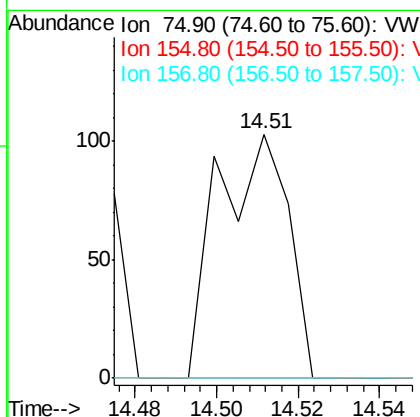
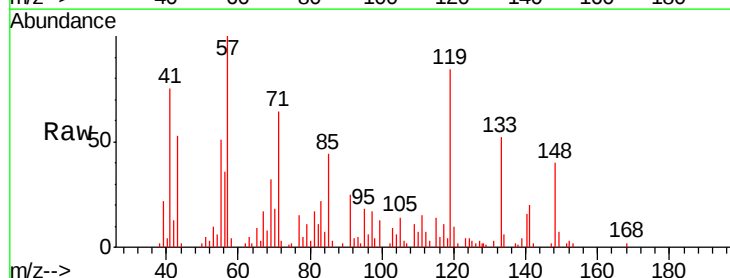
Instrument :
MSVOA_W
ClientSampleId :
TR-04-010219RE

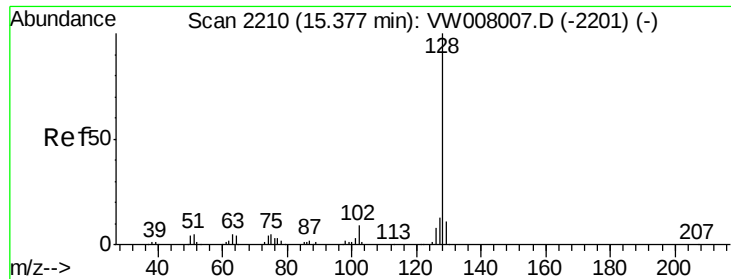
Tgt Ion: 117 Resp: 2025
Ion Ratio Lower Upper
117 100
201 0.0 37.1 111.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.587 ug/l
RT: 14.51 min Scan# 2068
Delta R.T. 0.02 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Tgt Ion: 75 Resp: 123
Ion Ratio Lower Upper
75 100
155 0.0 42.4 127.1#
157 0.0 52.3 156.8#

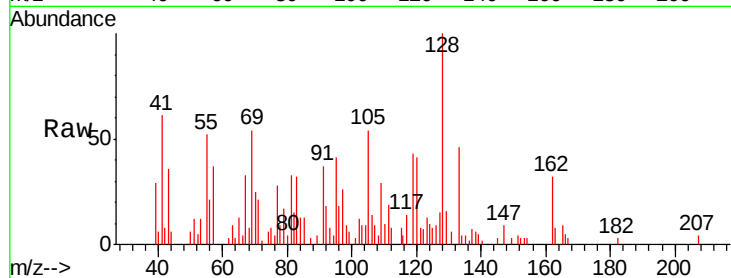




#95
Naphthalene
Concen: 5.476 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.01 min
Lab File: VW008030.D
Acq: 03 Jan 2019 19:24

Instrument :
MSVOA_W
ClientSampleId :
TR-04-010219RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.8	16.2
129	12.0	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

