

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW011119\
 Data File : VW008223.D
 Acq On : 12 Jan 2019 06:15
 Operator : SY/VA
 Sample : K1011-01RE
 Misc : 6.27G/5ML/MSVOA_W/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-011019-A

Quant Time: Jan 14 10:15:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 04:40:48 2019
 Response via : Initial Calibration

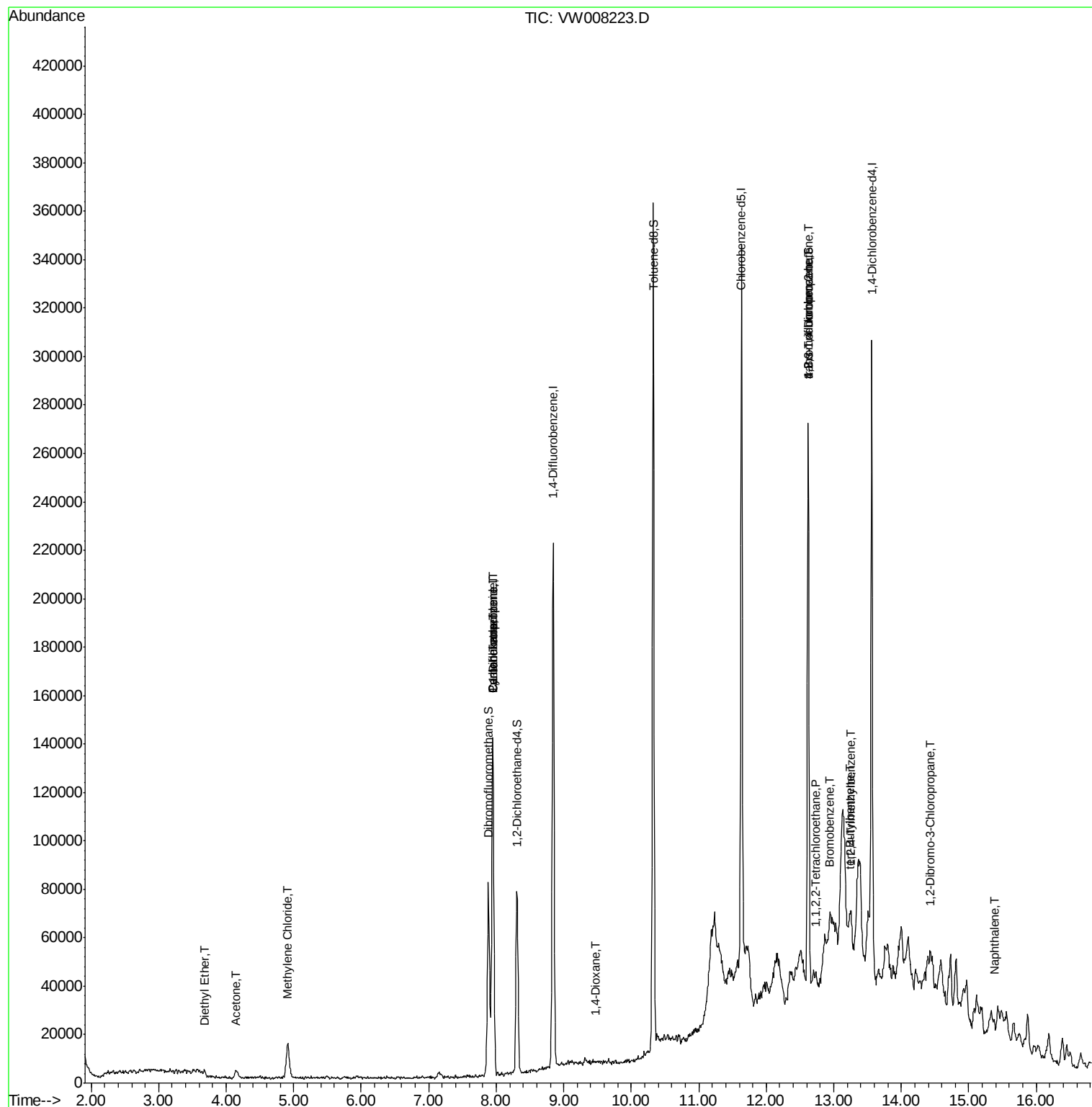
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	108571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	187652	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	165945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	67171	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	57709	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	
35) Dibromofluoromethane	7.88	113	56660	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
50) Toluene-d8	10.32	98	232329	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.62	95	76175	46.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.52%	
Target Compounds						
8) Diethyl Ether	3.69	74	1627	2.360	ug/l	82
11) Tert butyl alcohol	5.23	59	115	Below Cal	#	100
13) Acrolein	3.91	56	70	Below Cal	#	1
16) Acetone	4.14	43	7490	14.199	ug/l	97
20) Methylene Chloride	4.91	84	10974	4.786	ug/l	91
31) Cyclohexane	7.95	56	2737	1.066	ug/l #	19
36) 1,1-Dichloropropene	7.95	75	8361	4.325	ug/l #	53
38) Carbon Tetrachloride	7.95	117	10902	6.162	ug/l #	17
49) 1,4-Dioxane	9.47	88	20	1.948	ug/l #	11
75) 1,1,2,2-Tetrachloroethane	12.74	83	943	1.117	ug/l #	39
76) 1,2,3-Trichloropropane	12.62	75	37248	60.829	ug/l #	1
77) Bromobenzene	12.94	156	24483	21.972	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	37248	141.653	ug/l #	10
83) tert-Butylbenzene	13.24	119	8864	2.312	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.26	105	4814	1.077	ug/l	85
92) 1,2-Dibromo-3-Chloropropan	14.41	75	199	1.465	ug/l	74
95) Naphthalene	15.38	128	2631	1.068	ug/l #	79

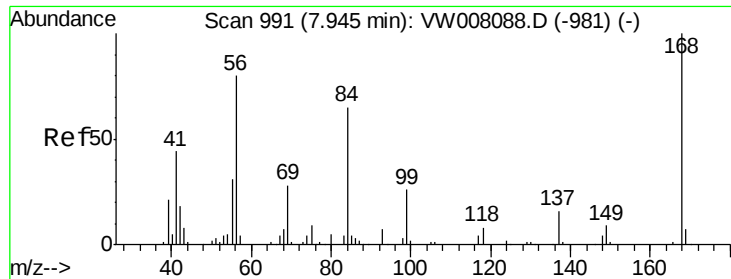
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

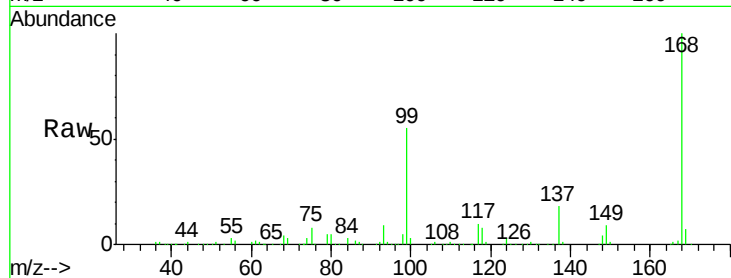
OR-02-011019-A

Tgt Ion:168 Resp: 108571

Ion Ratio Lower Upper

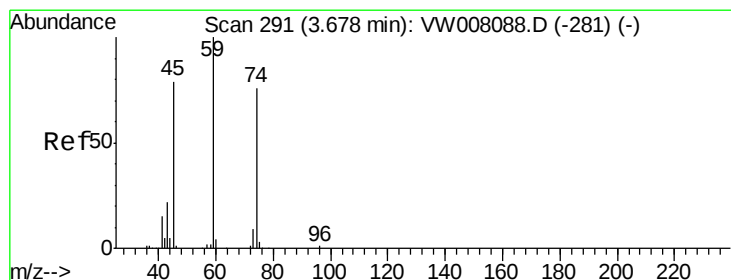
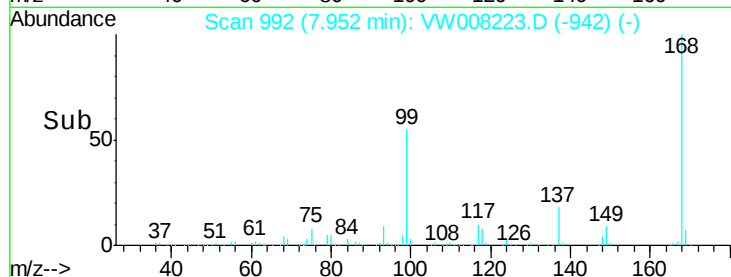
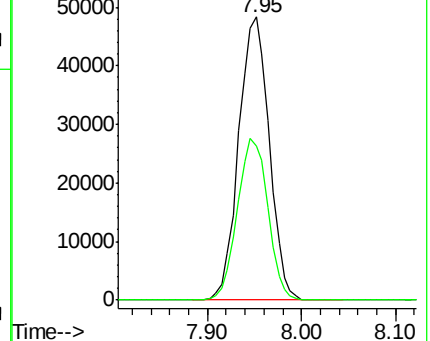
168 100

99 54.6 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.360 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW008223.D

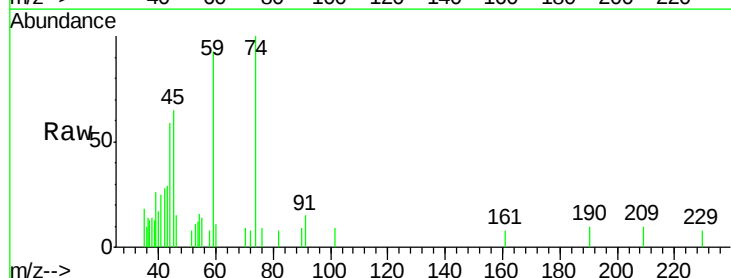
Acq: 12 Jan 2019 06:15

Tgt Ion: 74 Resp: 1627

Ion Ratio Lower Upper

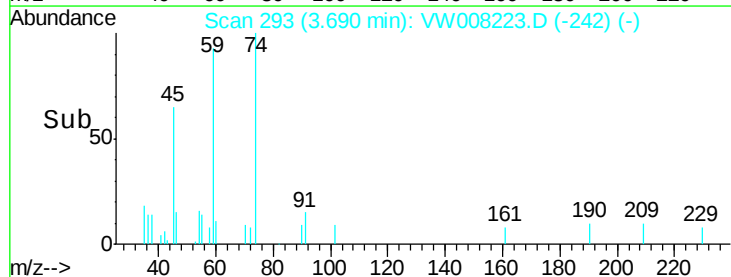
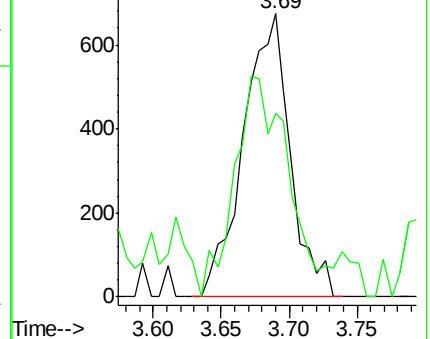
74 100

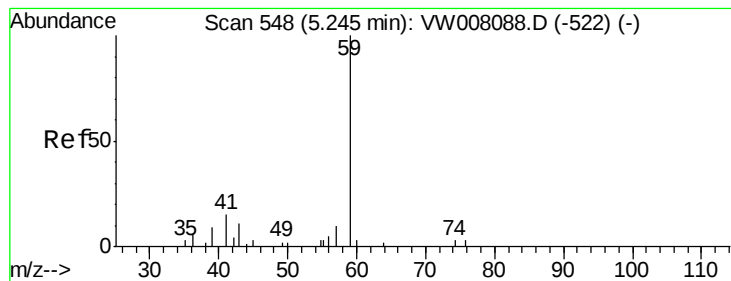
45 86.9 52.4 157.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



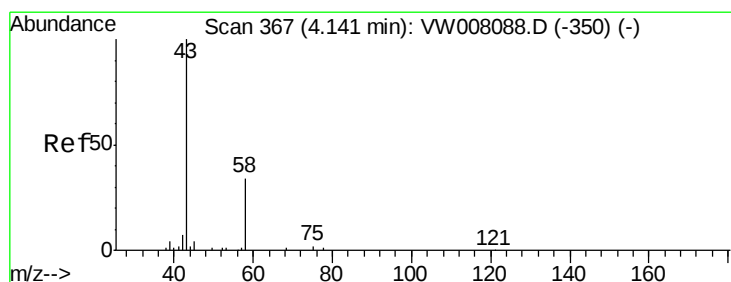
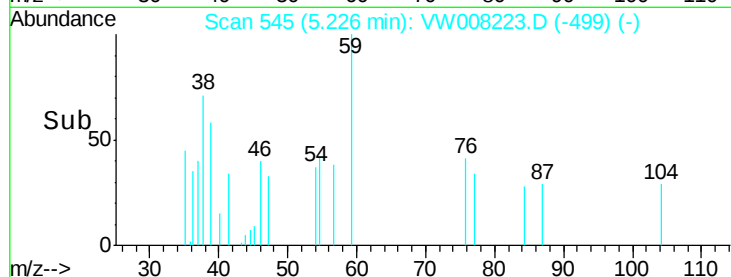
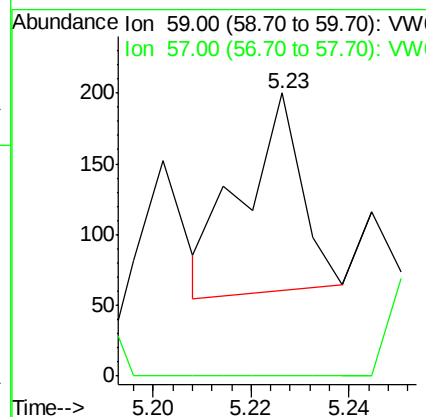
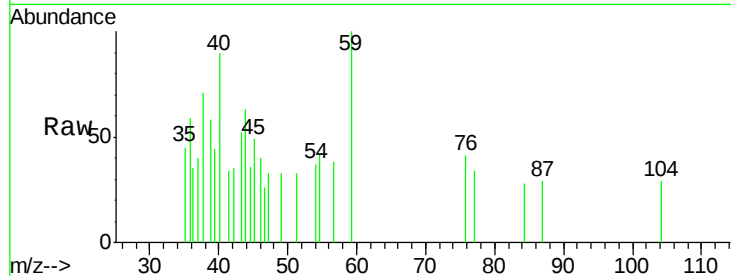


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 545
 Delta R.T. -0.02 min
 Lab File: VW008223.D
 Acq: 12 Jan 2019 06:15

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-011019-A

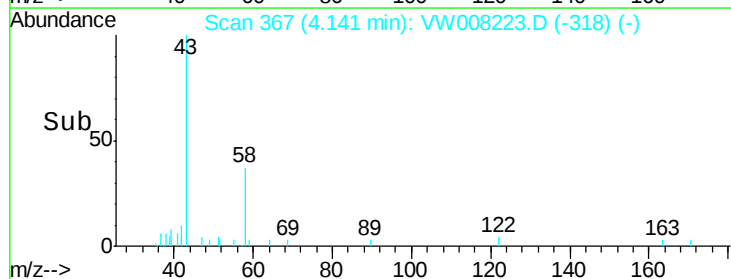
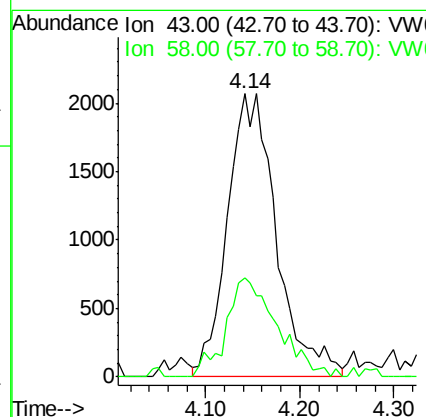
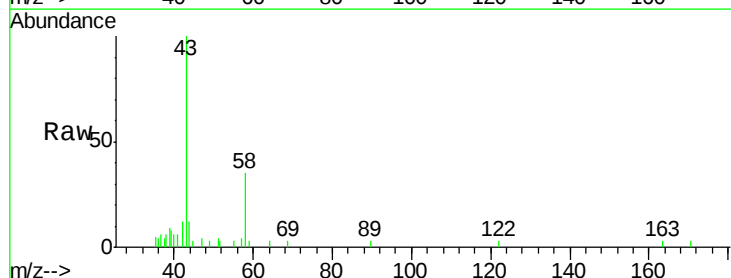
Tgt Ion: 59 Resp: 115
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.0 0.0

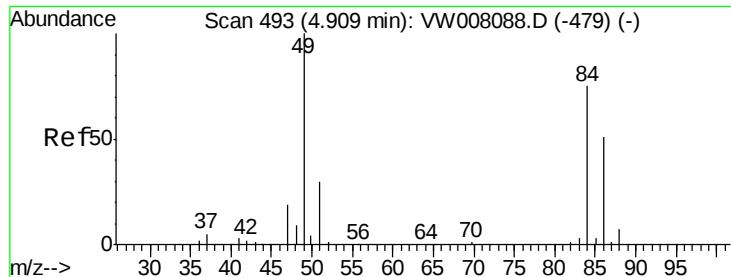


#16

Acetone
 Concen: 14.199 ug/l
 RT: 4.14 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VW008223.D
 Acq: 12 Jan 2019 06:15

Tgt Ion: 43 Resp: 7490
 Ion Ratio Lower Upper
 43 100
 58 36.0 27.5 41.3





#20

Methylene Chloride

Concen: 4.786 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

OR-02-011019-A

Tgt Ion: 84 Resp: 10974

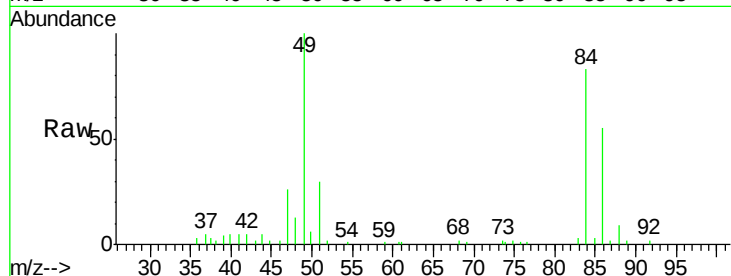
Ion Ratio Lower Upper

84 100

49 118.7 107.1 160.7

51 35.0 32.4 48.6

86 66.4 54.2 81.4

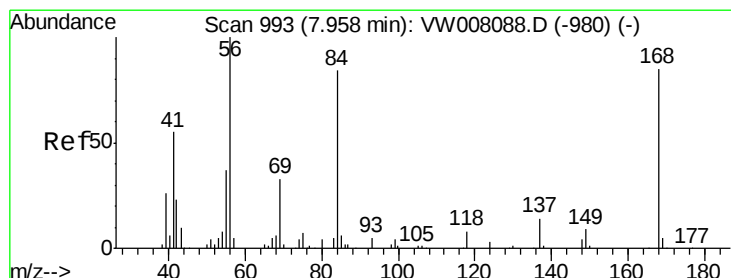
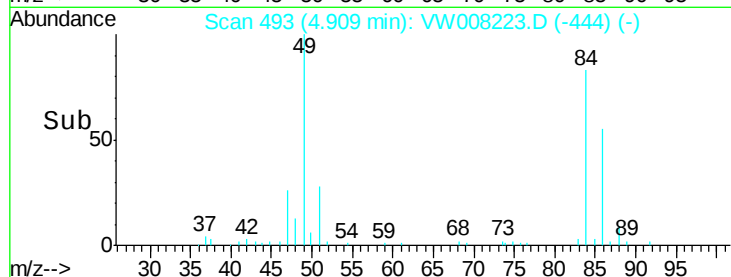
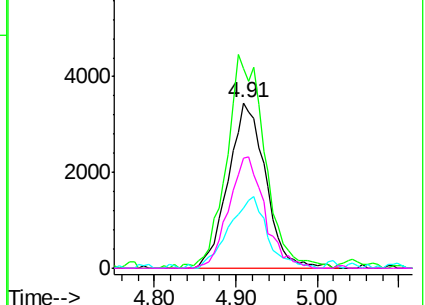


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#31

Cyclohexane

Concen: 1.066 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

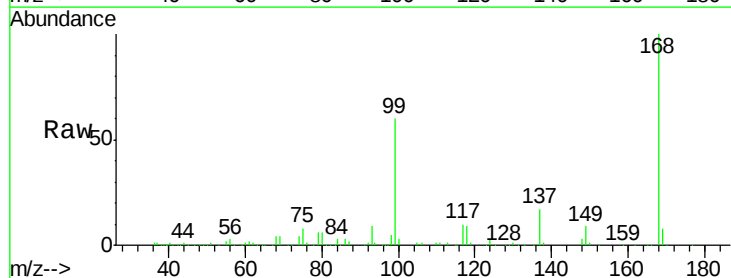
Tgt Ion: 56 Resp: 2737

Ion Ratio Lower Upper

56 100

69 141.7 26.2 39.4#

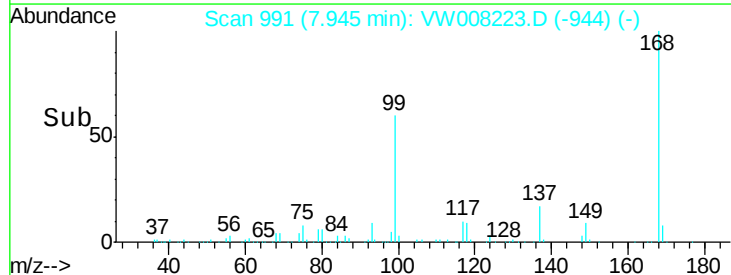
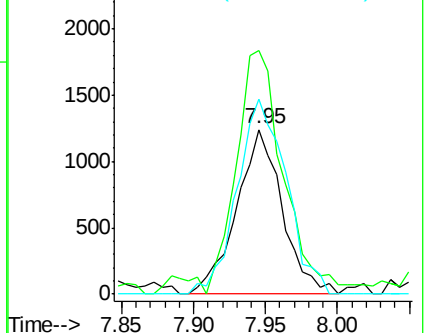
84 118.1 67.4 101.2#

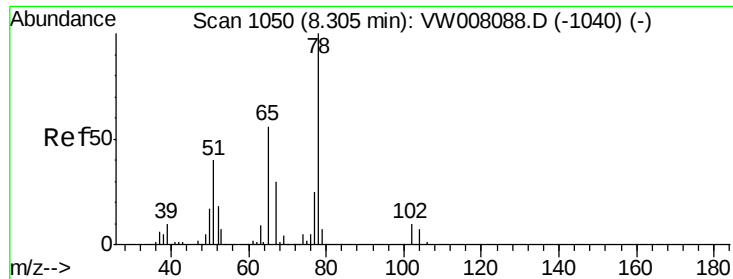


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

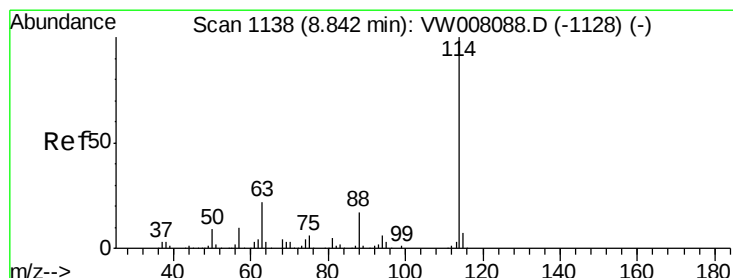
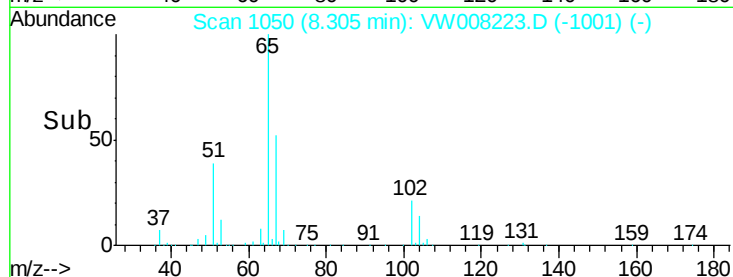
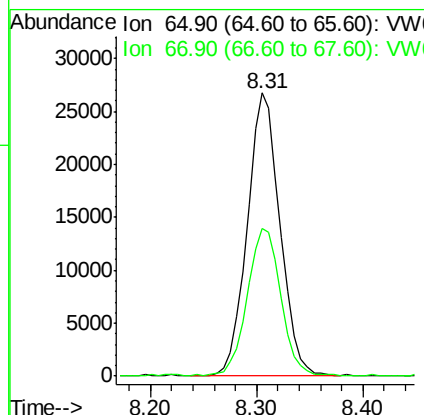
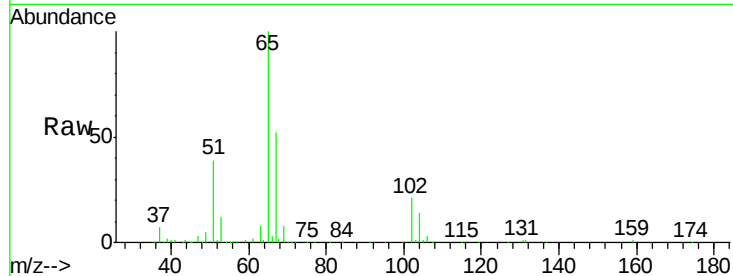




#33
 1,2-Dichloroethane-d4
 Concen: 47.293 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008223.D
 Acq: 12 Jan 2019 06:15

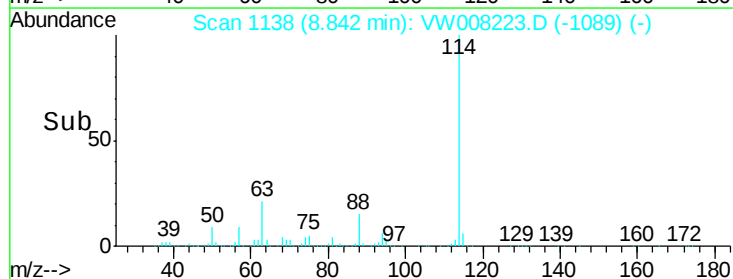
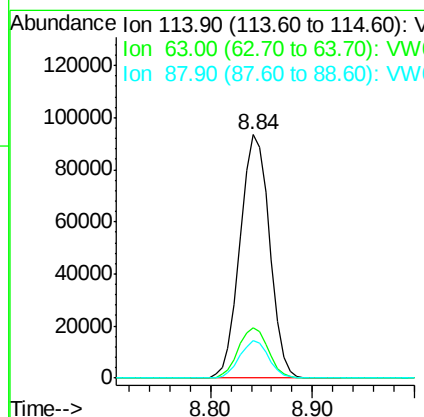
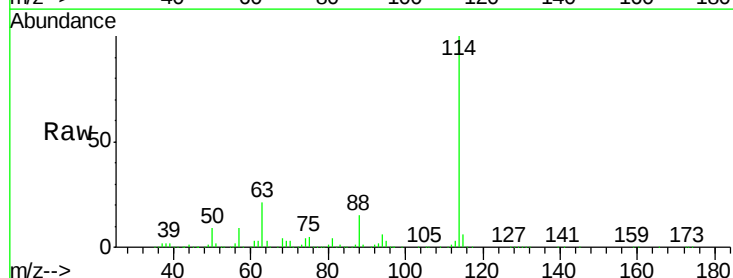
Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-011019-A

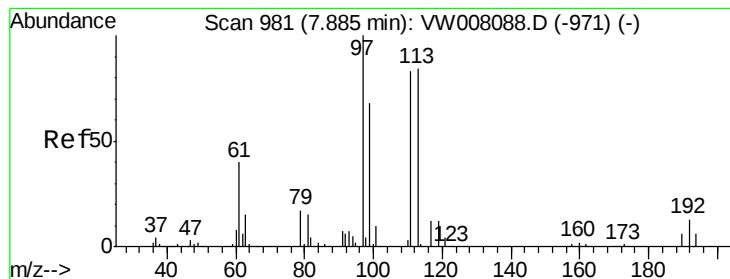
Tgt Ion: 65 Resp: 57709
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008223.D
 Acq: 12 Jan 2019 06:15

Tgt Ion: 114 Resp: 187652
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 43.4
 88 15.5 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.770 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

OR-02-011019-A

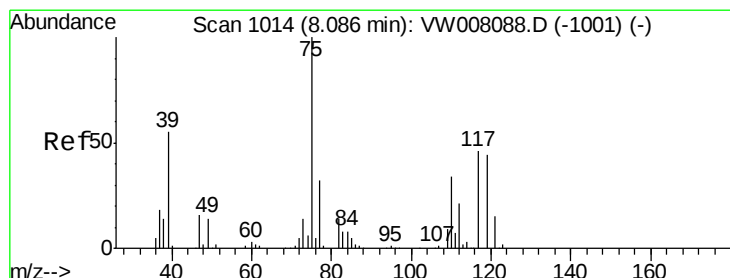
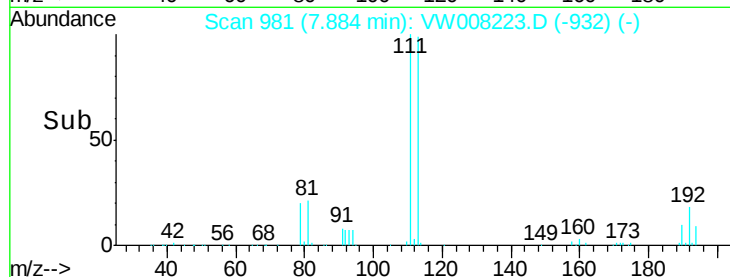
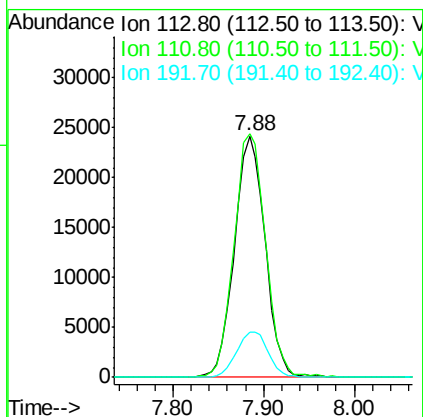
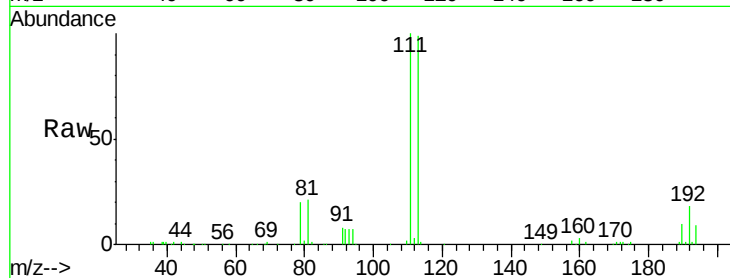
Tgt Ion:113 Resp: 56660

Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.8

192 19.3 12.8 19.2#



#36

1,1-Dichloropropene

Concen: 4.325 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

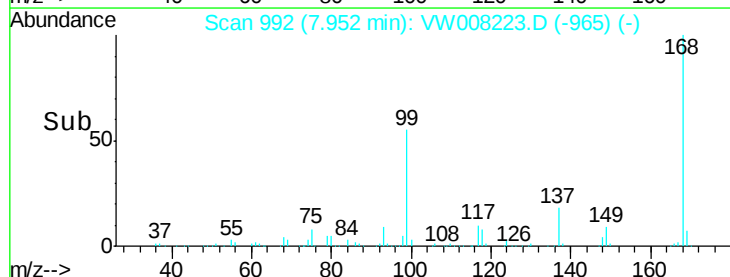
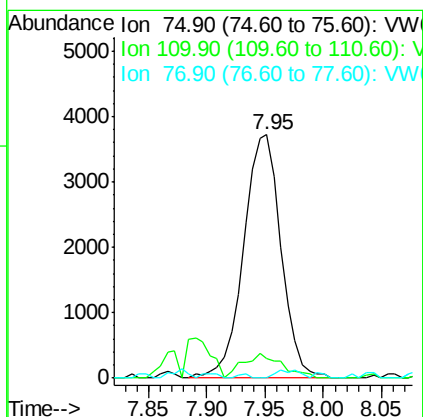
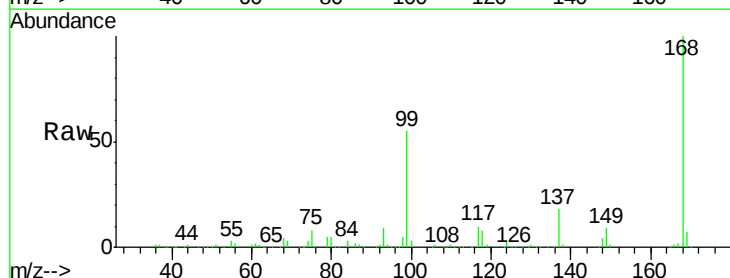
Tgt Ion: 75 Resp: 8361

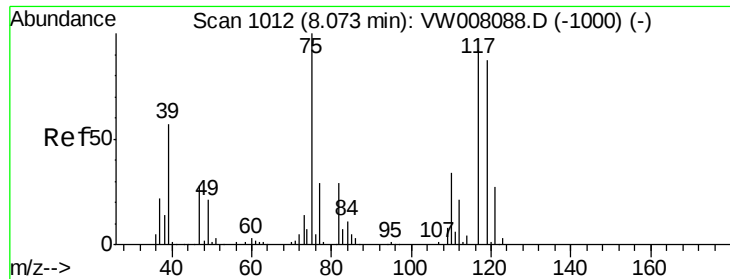
Ion Ratio Lower Upper

75 100

110 10.6 17.1 51.3#

77 2.1 25.5 38.3#

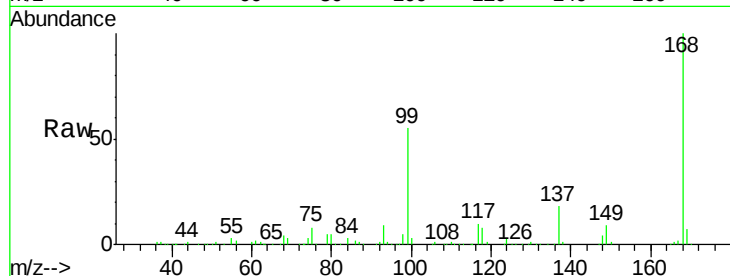




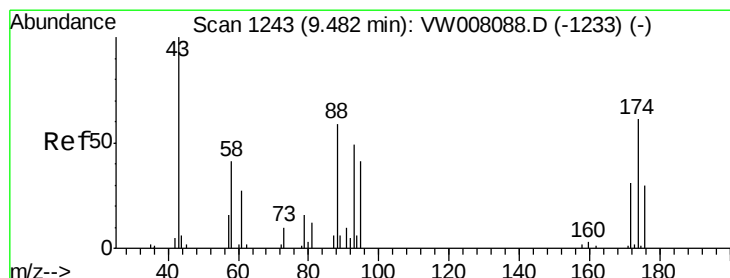
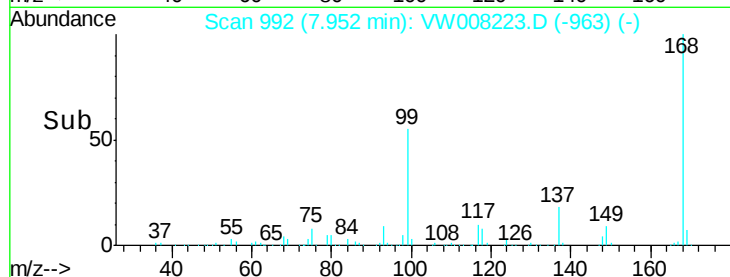
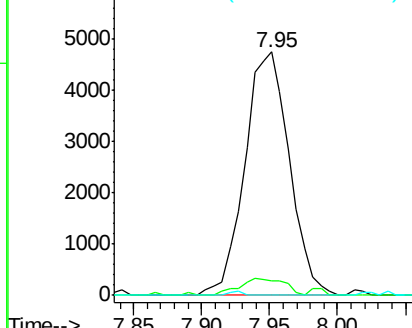
#38
Carbon Tetrachloride
Concen: 6.162 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW008223.D
Acq: 12 Jan 2019 06:15

Instrument :
MSVOA_W
ClientSampleId :
OR-02-011019-A

Tgt Ion: 117 Resp: 10902
Ion Ratio Lower Upper
117 100
119 6.2 75.8 113.8#
121 0.0 23.7 35.5#

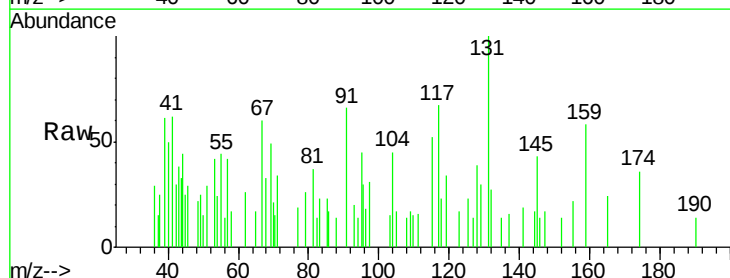


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

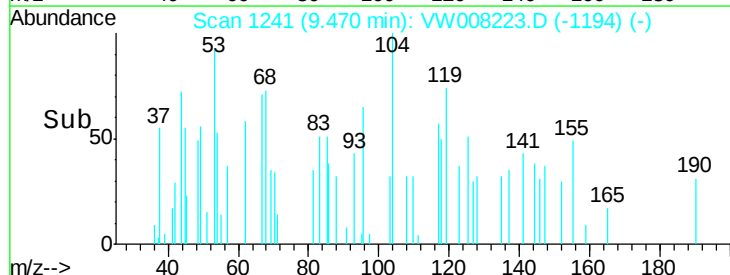
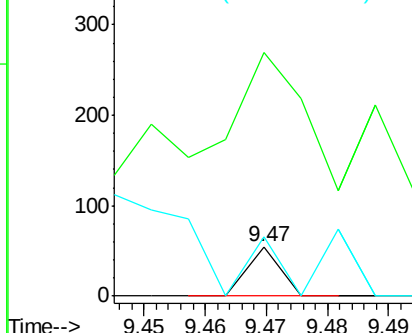


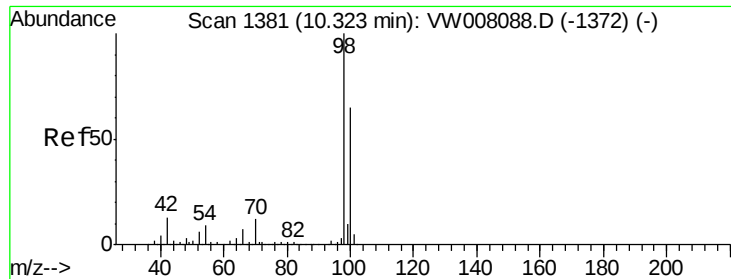
#49
1,4-Dioxane
Concen: 1.948 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VW008223.D
Acq: 12 Jan 2019 06:15

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 1295.0 0.0 0.0#
58 0.0 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 50.586 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

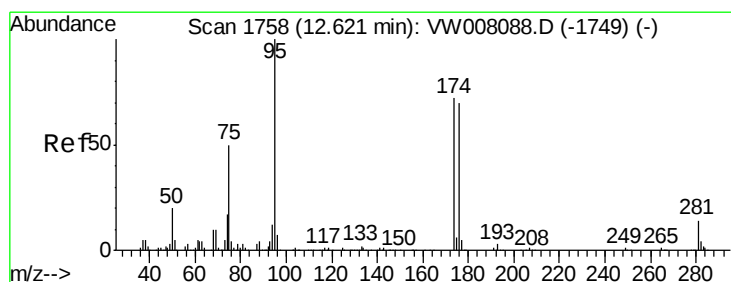
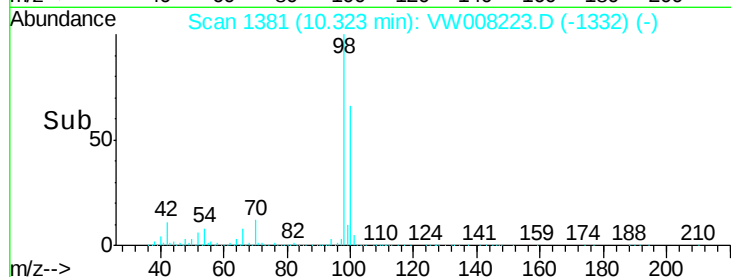
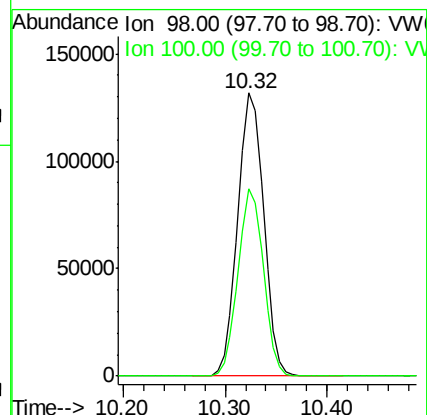
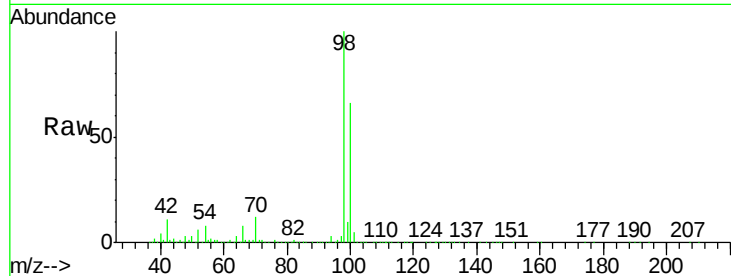
OR-02-011019-A

Tgt Ion: 98 Resp: 232329

Ion Ratio Lower Upper

98 100

100 64.8 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 46.265 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

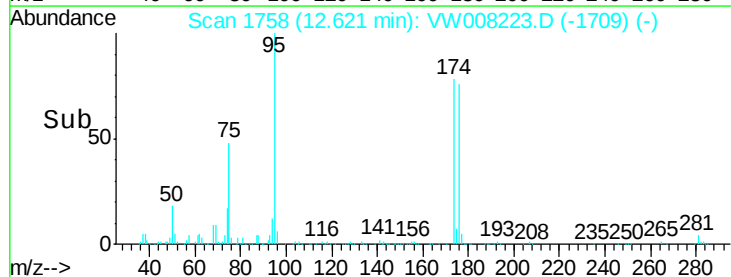
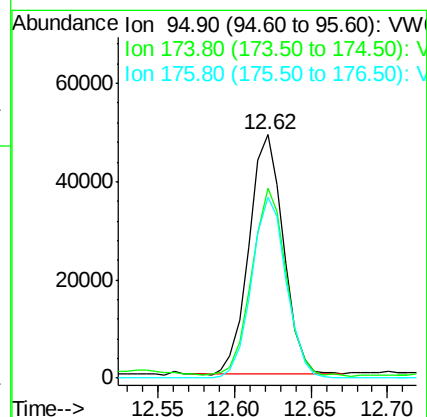
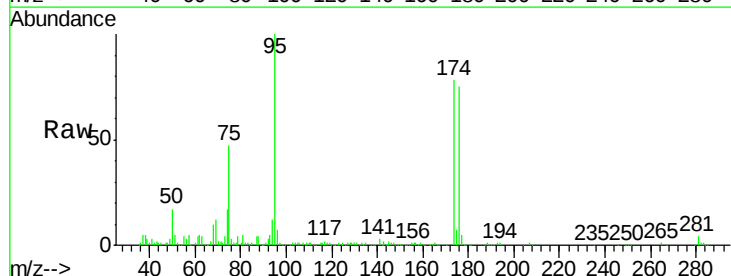
Tgt Ion: 95 Resp: 76175

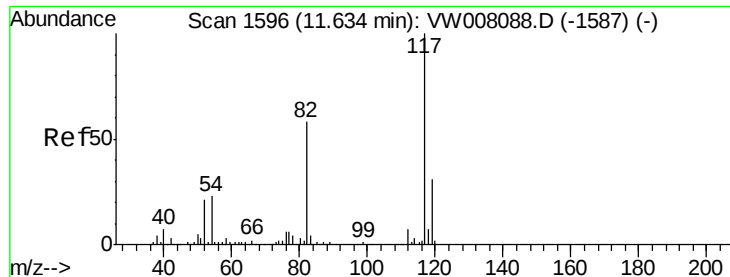
Ion Ratio Lower Upper

95 100

174 78.6 0.0 143.0

176 76.2 0.0 140.2

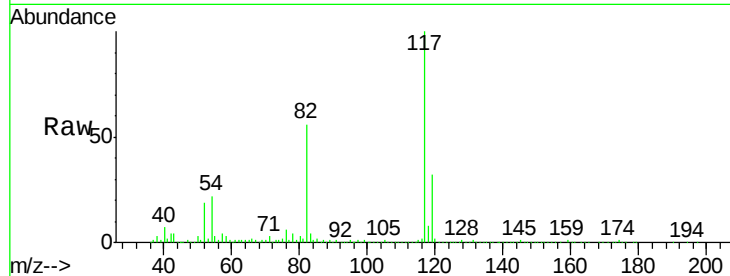




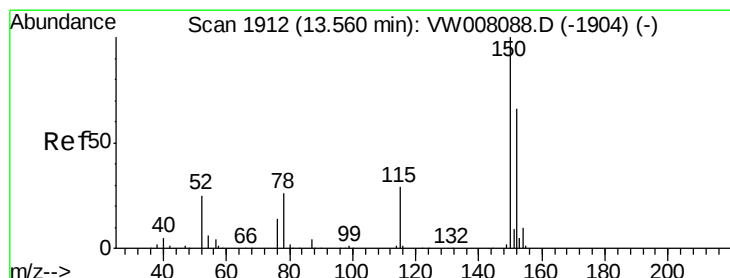
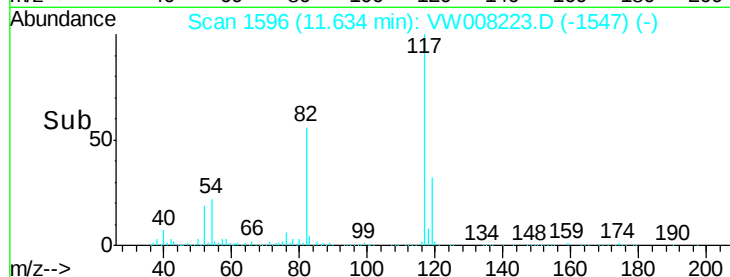
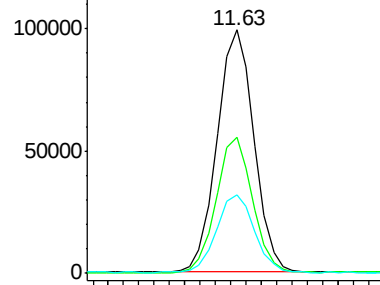
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008223.D
Acq: 12 Jan 2019 06:15

Instrument :
MSVOA_W
ClientSampleId :
OR-02-011019-A

Tgt Ion:117 Resp: 165945
Ion Ratio Lower Upper
117 100
82 56.1 46.4 69.6
119 32.2 24.7 37.1

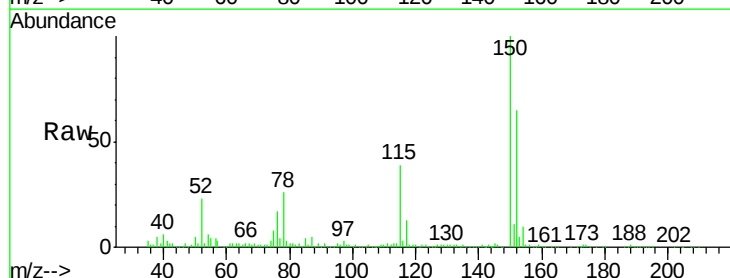


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

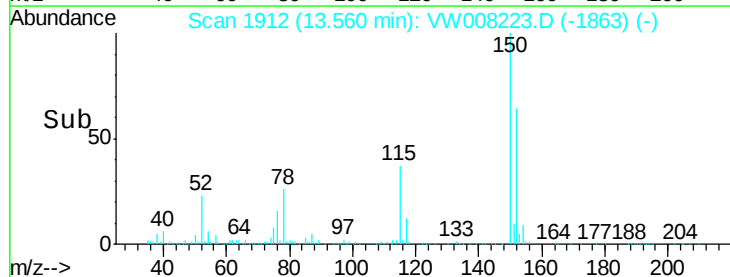
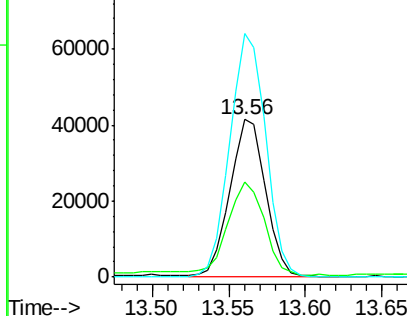


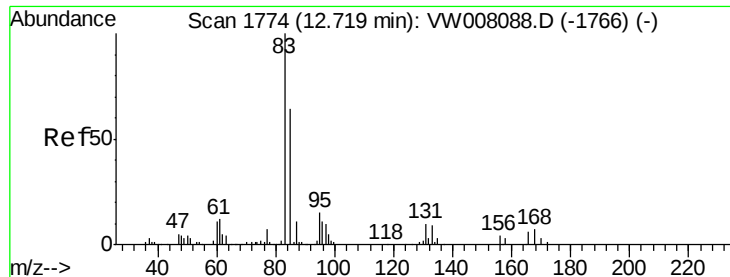
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008223.D
Acq: 12 Jan 2019 06:15

Tgt Ion:152 Resp: 67171
Ion Ratio Lower Upper
152 100
115 60.3 30.8 92.4
150 155.0 0.0 350.2



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

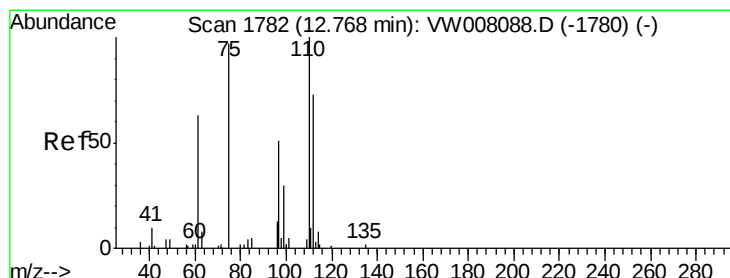
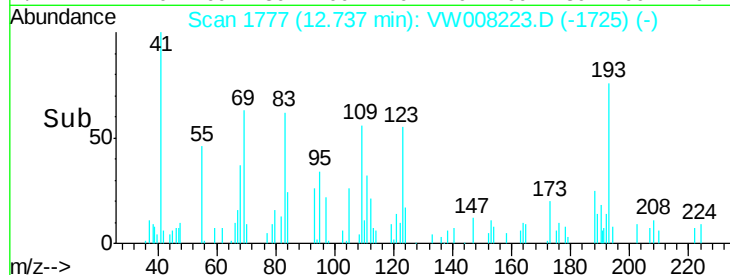
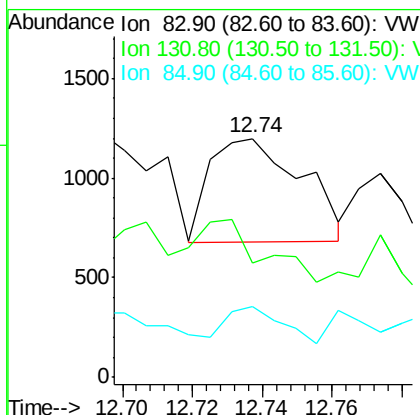
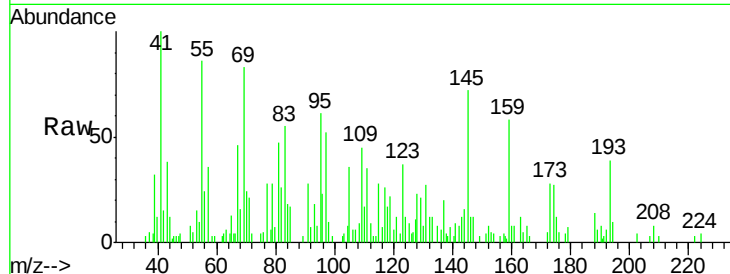




#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.117 ug/l
 RT: 12.74 min Scan# 1777
 Delta R.T. 0.02 min
 Lab File: VW008223.D
 Acq: 12 Jan 2019 06:15

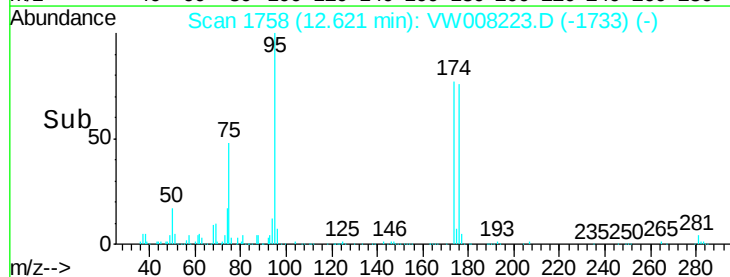
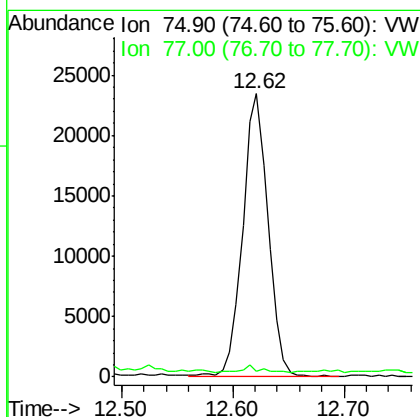
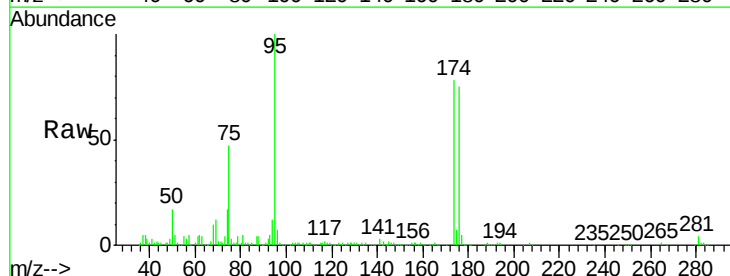
Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-011019-A

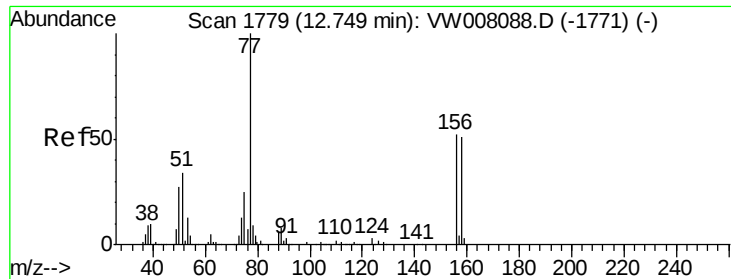
Tgt Ion: 83 Resp: 943
 Ion Ratio Lower Upper
 83 100
 131 45.1 5.3 16.1#
 85 20.7 32.4 97.2#



#76
 1,2,3-Trichloropropane
 Concen: 60.829 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008223.D
 Acq: 12 Jan 2019 06:15

Tgt Ion: 75 Resp: 37248
 Ion Ratio Lower Upper
 75 100
 77 1.4 179.4 538.2#





#77

Bromobenzene

Concen: 21.972 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.20 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

OR-02-011019-A

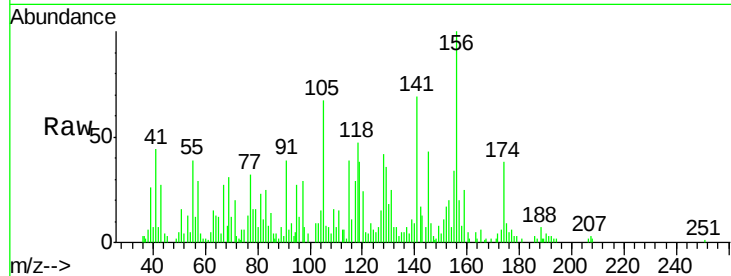
Tgt Ion:156 Resp: 24483

Ion Ratio Lower Upper

156 100

77 5.2 104.2 312.5#

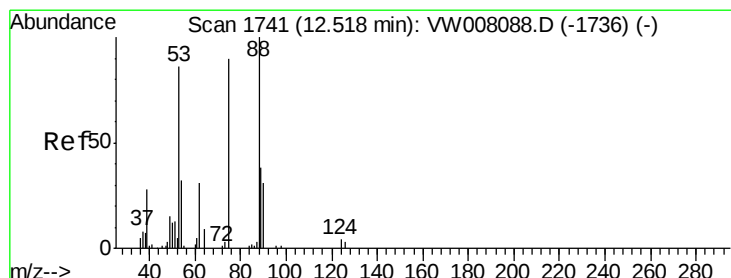
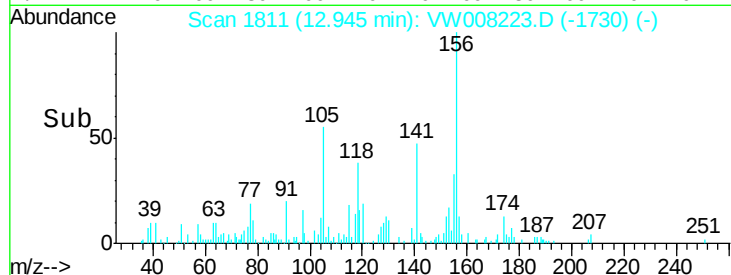
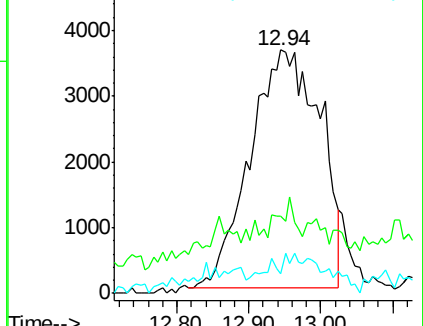
158 1.7 47.9 143.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 141.653 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

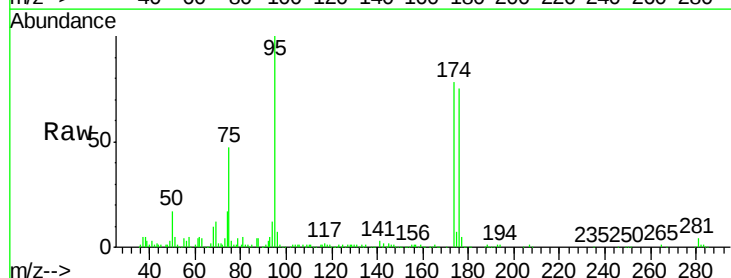
Tgt Ion: 75 Resp: 37248

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

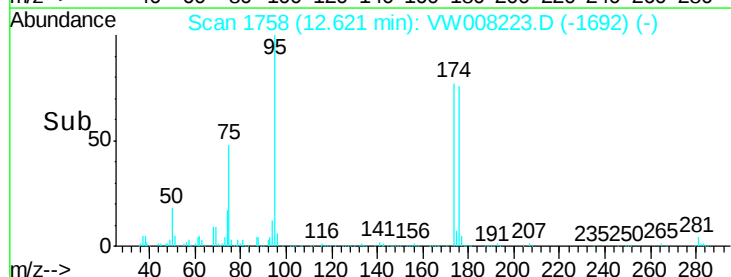
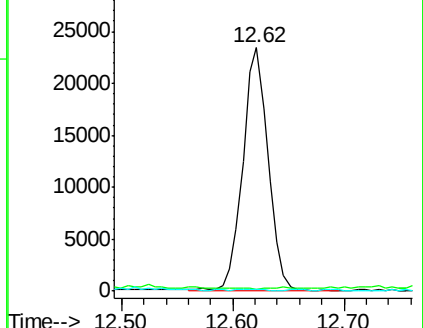
89 0.0 35.4 53.2#

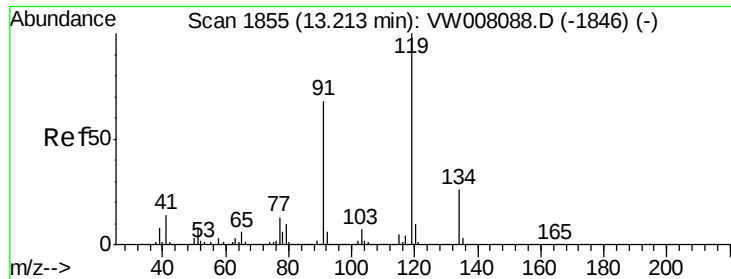


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

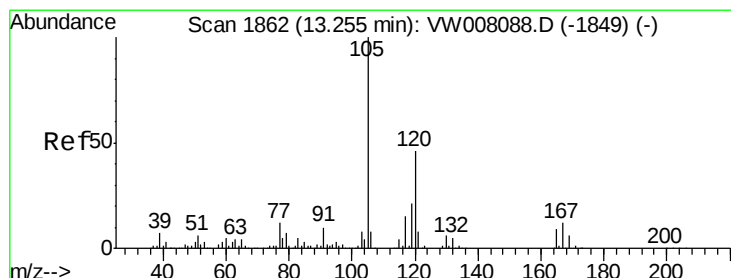
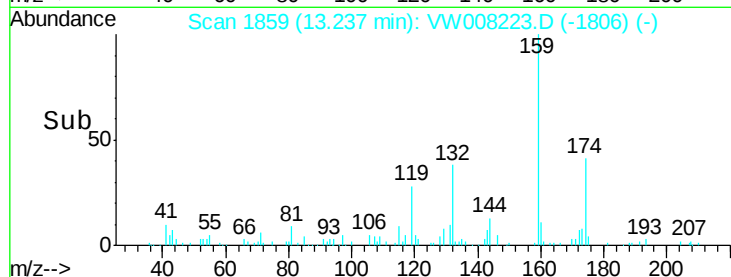
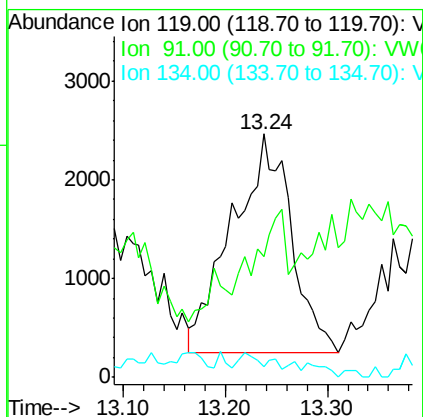
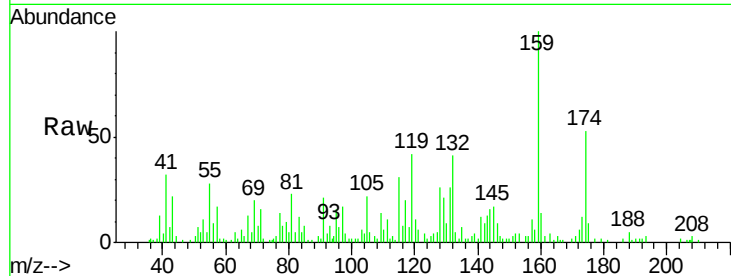




#83
tert-Butylbenzene
Concen: 2.312 ug/l
RT: 13.24 min Scan# 1859
Delta R.T. 0.02 min
Lab File: VW008223.D
Acq: 12 Jan 2019 06:15

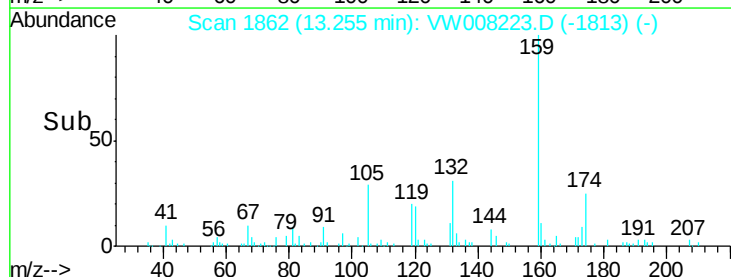
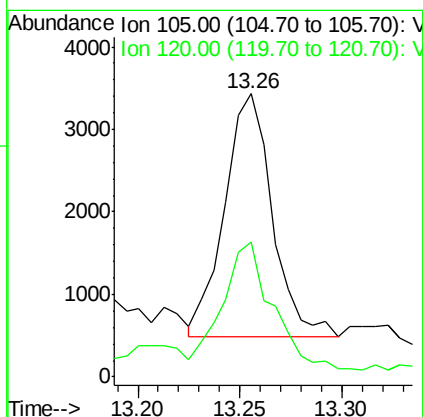
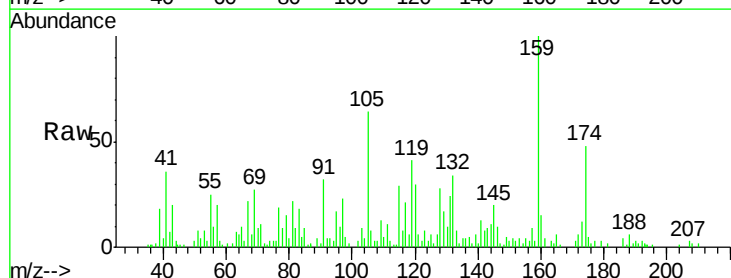
Instrument :
MSVOA_W
ClientSampleId :
OR-02-011019-A

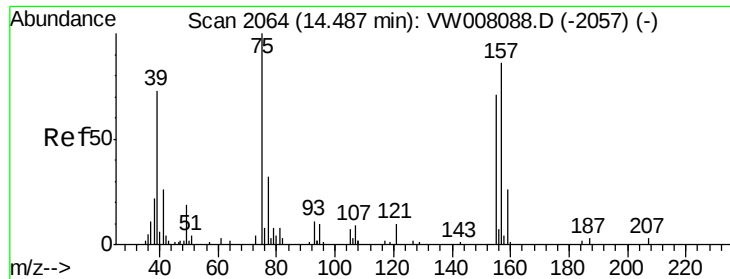
Tgt Ion:119 Resp: 8864
Ion Ratio Lower Upper
119 100
91 18.2 33.9 101.6#
134 0.0 13.6 40.8#



#84
1,2,4-Trimethylbenzene
Concen: 1.077 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW008223.D
Acq: 12 Jan 2019 06:15

Tgt Ion:105 Resp: 4814
Ion Ratio Lower Upper
105 100
120 55.2 22.7 68.1





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.465 ug/l

RT: 14.41 min Scan# 2052

Delta R.T. -0.07 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

OR-02-011019-A

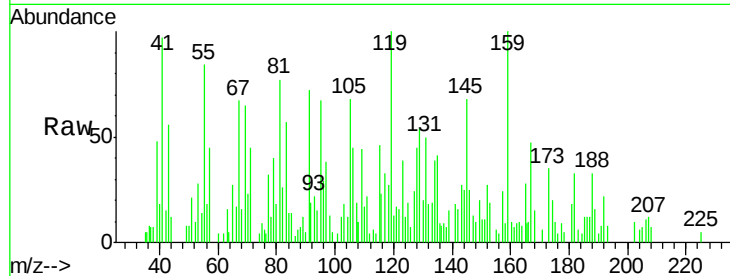
Tgt Ion: 75 Resp: 199

Ion Ratio Lower Upper

75 100

155 43.2 38.6 115.7

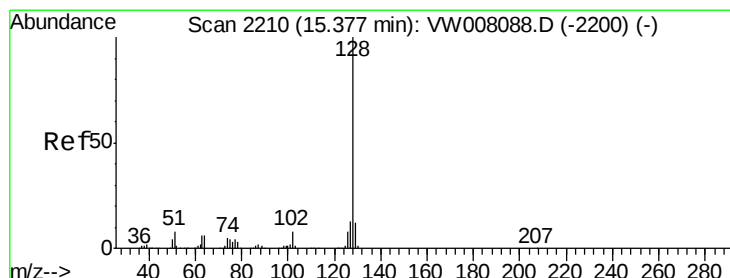
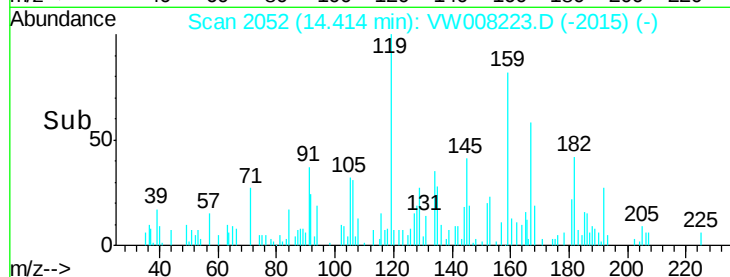
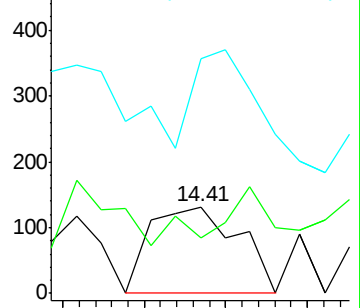
157 109.5 47.5 142.6



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: 1.068 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW008223.D

Acq: 12 Jan 2019 06:15

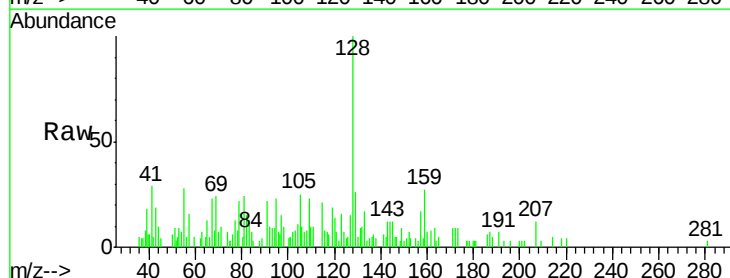
Tgt Ion: 128 Resp: 2631

Ion Ratio Lower Upper

128 100

127 19.1 11.0 16.4#

129 0.0 9.0 13.6#



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

