

Data File : VW012693.D
Acq On : 06 Sep 2019 15:59
Operator : SY/VA
Sample : K4580-07RE
Misc : 2.08G/5ML/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T12-B4-(0)

Quant Time: Sep 07 04:40:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	254168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	397269	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	283126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	82803	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	150289	49.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.48%	
35) Dibromofluoromethane	7.88	113	115222	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
50) Toluene-d8	10.32	98	450133	46.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.64%	
62) 4-Bromofluorobenzene	12.62	95	157137	46.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.72%	

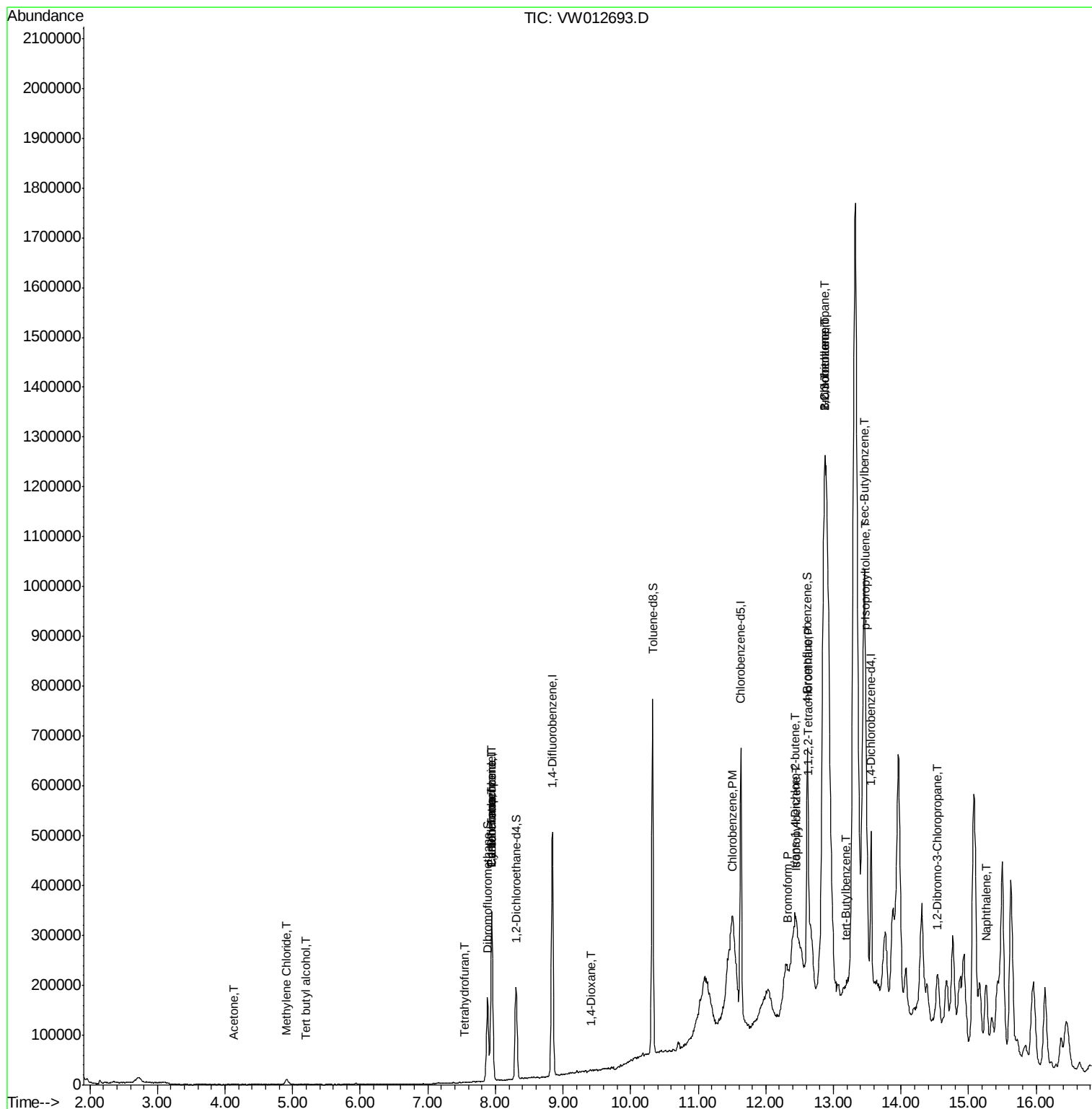
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.18	59	453	2.491	ug/l #	71
16) Acetone	4.12	43	2274	2.944	ug/l #	83
20) Methylene Chloride	4.92	84	8022	2.747	ug/l	88
29) Tetrahydrofuran	7.54	42	733	1.164	ug/l #	54
31) Cyclohexane	7.95	56	6215	1.142	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20936	5.100	ug/l #	55
38) Carbon Tetrachloride	7.95	117	25342	7.132	ug/l #	16
49) 1,4-Dioxane	9.43	88	22	1.071	ug/l #	1
65) Chlorobenzene	11.51	112	14137	2.536	ug/l #	64
71) Bromoform	12.33	173	7693	7.939	ug/l #	28
73) Isopropylbenzene	12.44	105	13431	2.165	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.63	83	65512	57.594	ug/l #	26
76) 1,2,3-Trichloropropane	12.87	75	63556	78.810	ug/l #	100
77) Bromobenzene	12.87	156	1804839	1344.600	ug/l #	1
79) 2-Chlorotoluene	12.88	91	8899	2.069	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.43	75	8928	24.273	ug/l #	20
83) tert-Butylbenzene	13.18	119	20873	4.753	ug/l #	27
85) sec-Butylbenzene	13.46	105	33472	5.320	ug/l #	74
86) p-Isopropyltoluene	13.48	119	22159	3.944	ug/l #	50
92) 1,2-Dibromo-3-Chloropropan	14.54	75	1481	7.723	ug/l #	1
95) Naphthalene	15.26	128	16017	9.006	ug/l #	1

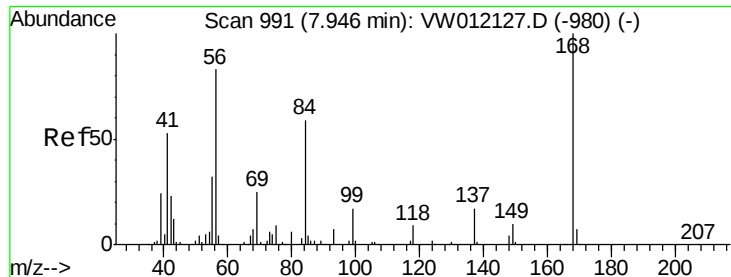
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

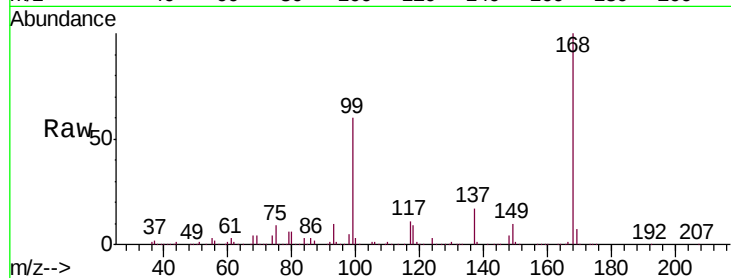
T12-B4-(0)

Tgt Ion:168 Resp: 254168

Ion Ratio Lower Upper

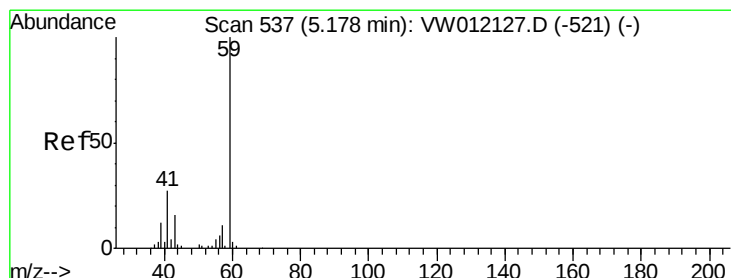
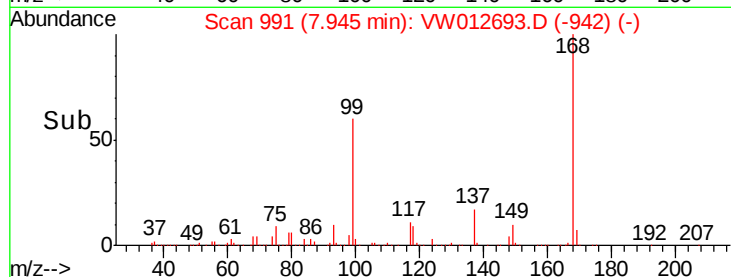
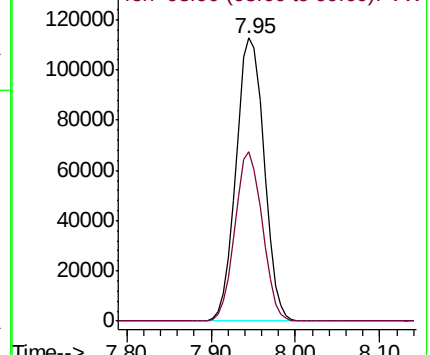
168 100

99 59.9 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.491 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW012693.D

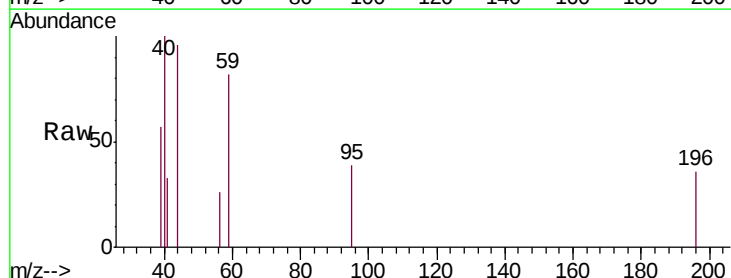
Acq: 06 Sep 2019 15:59

Tgt Ion: 59 Resp: 453

Ion Ratio Lower Upper

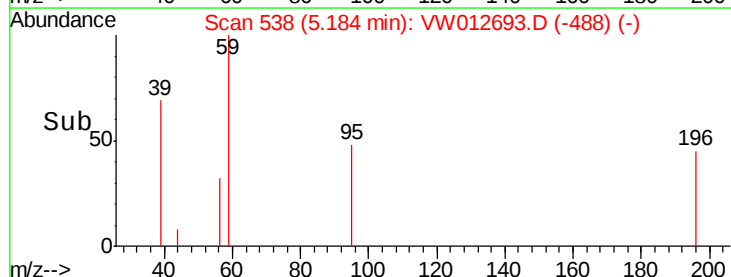
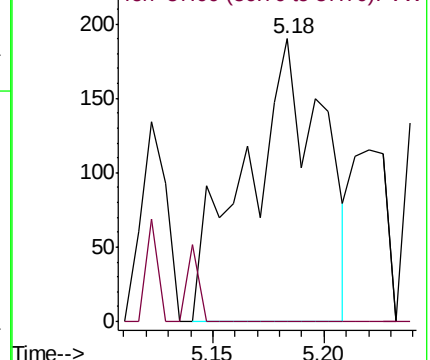
59 100

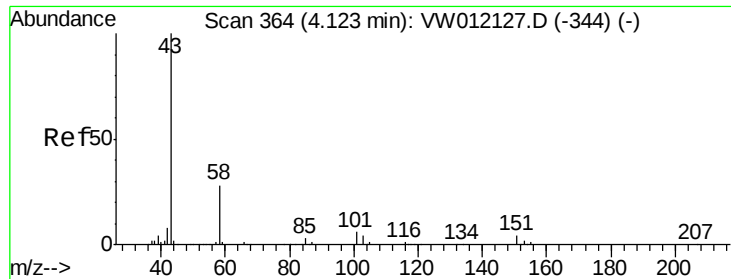
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 2.944 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

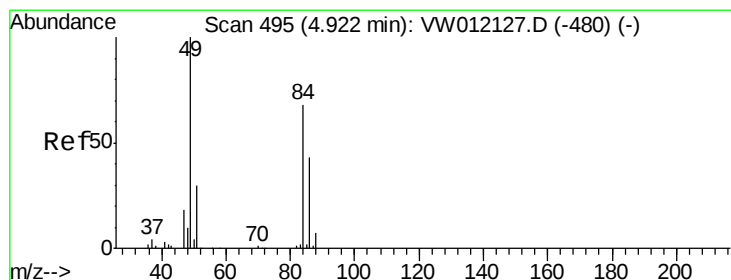
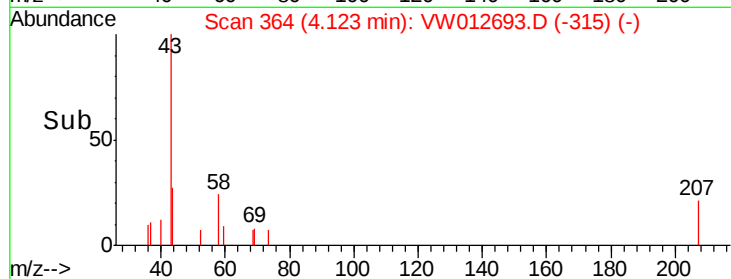
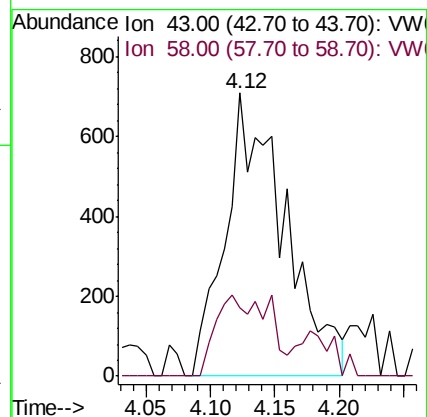
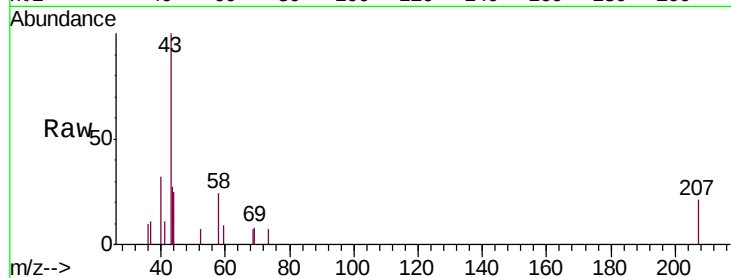
T12-B4-(0)

Tgt Ion: 43 Resp: 2274

Ion Ratio Lower Upper

43 100

58 19.0 22.4 33.6#



#20

Methylene Chloride

Concen: 2.747 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Tgt Ion: 84 Resp: 8022

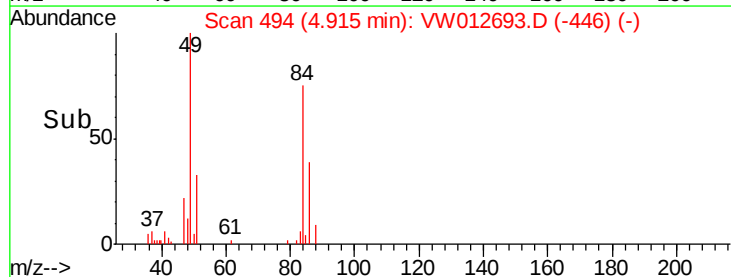
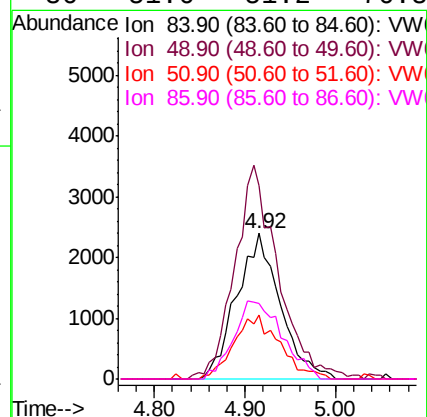
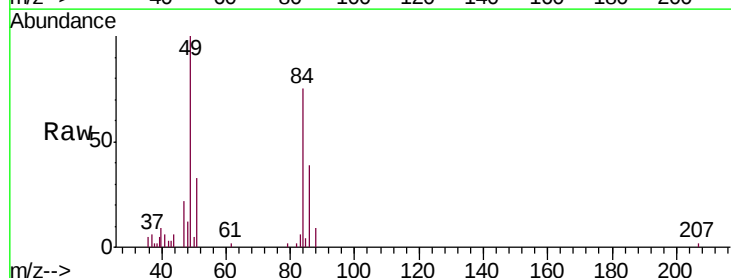
Ion Ratio Lower Upper

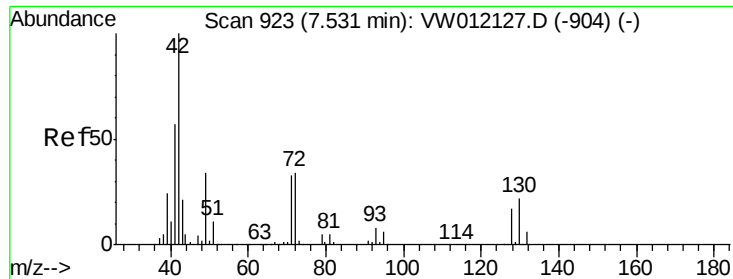
84 100

49 130.6 117.8 176.8

51 43.8 35.6 53.4

86 51.6 51.2 76.8





#29

Tetrahydrofuran

Concen: 1.164 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

T12-B4-(0)

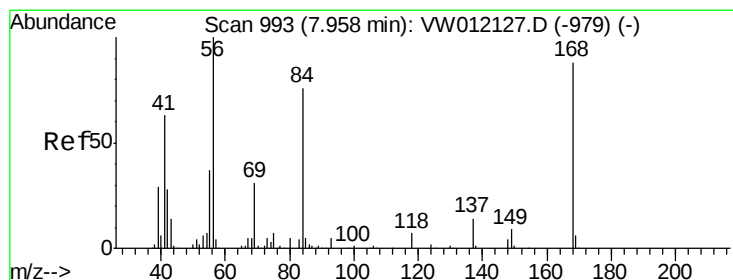
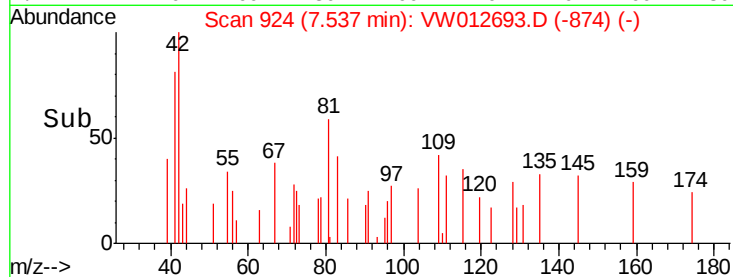
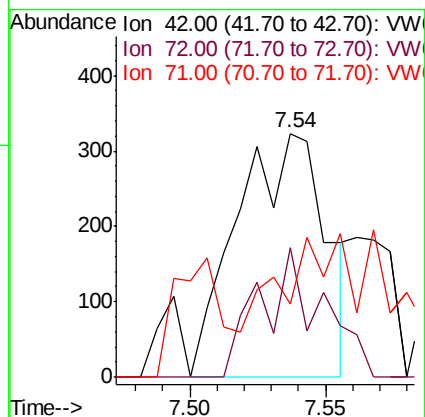
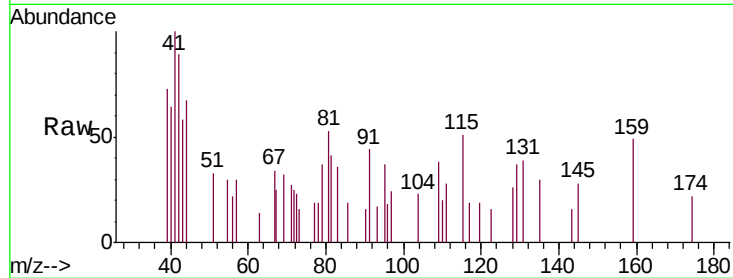
Tgt Ion: 42 Resp: 733

Ion Ratio Lower Upper

42 100

72 13.2 27.3 40.9#

71 0.0 25.5 38.3#



#31

Cyclohexane

Concen: 1.142 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

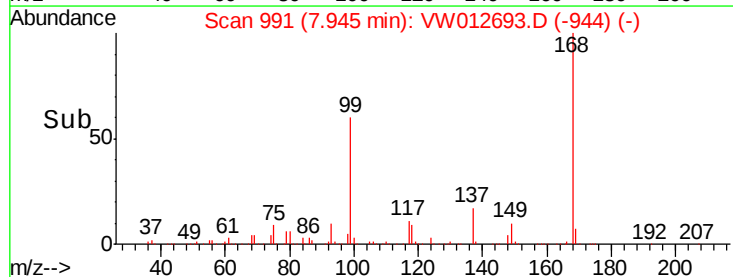
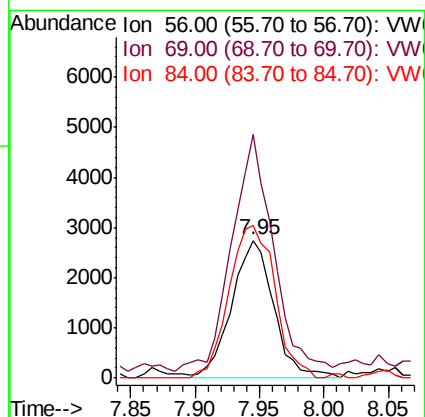
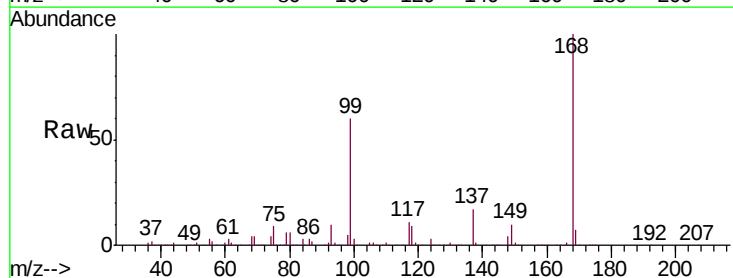
Tgt Ion: 56 Resp: 6215

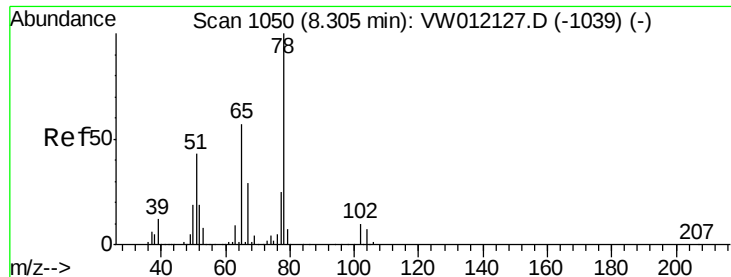
Ion Ratio Lower Upper

56 100

69 166.7 24.9 37.3#

84 119.0 60.6 90.8#

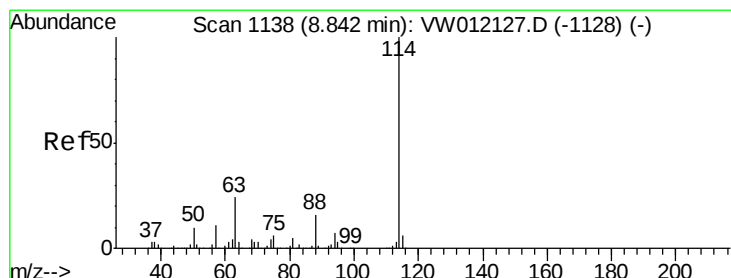
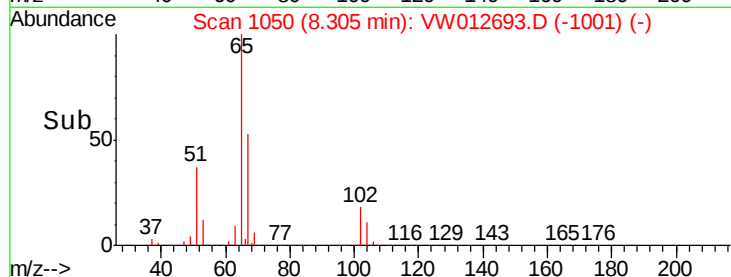
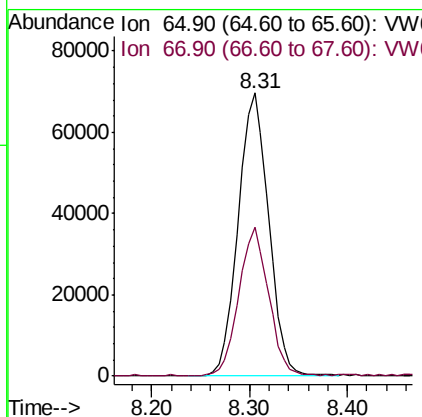
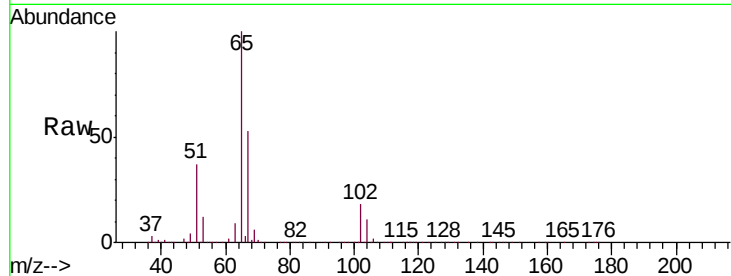




#33
 1,2-Dichloroethane-d4
 Concen: 49.741 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012693.D
 Acq: 06 Sep 2019 15:59

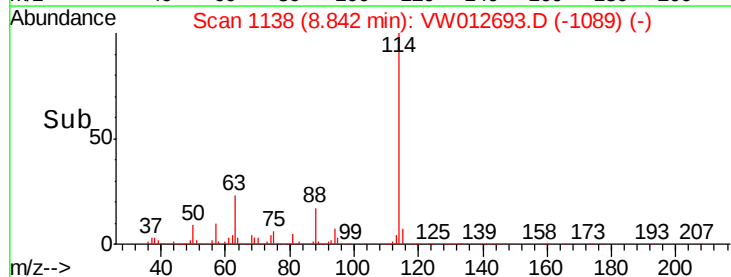
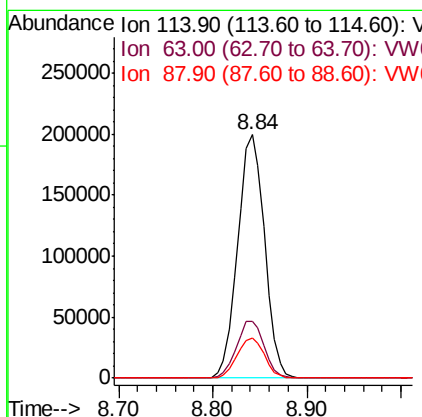
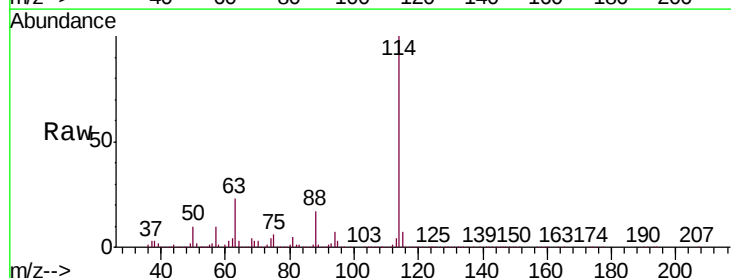
Instrument :
 MSVOA_W
 ClientSampleId :
 T12-B4-(0)

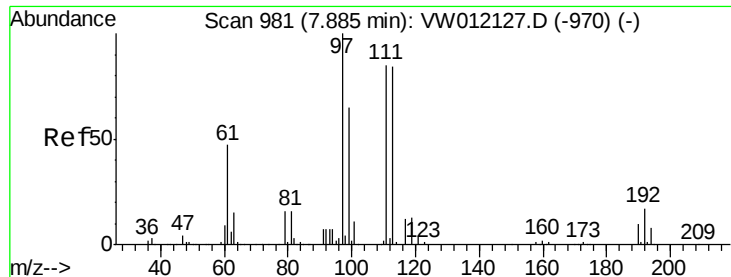
Tgt Ion: 65 Resp: 150289
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012693.D
 Acq: 06 Sep 2019 15:59

Tgt Ion: 114 Resp: 397269
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 48.6
 88 16.6 0.0 32.2

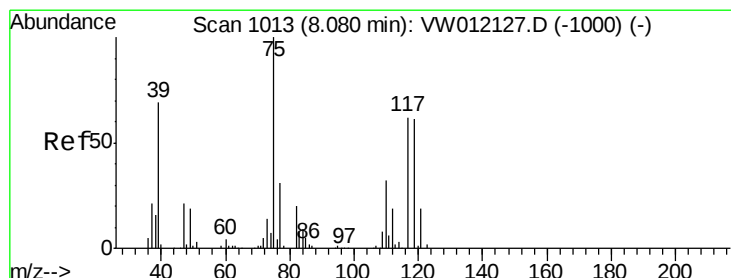
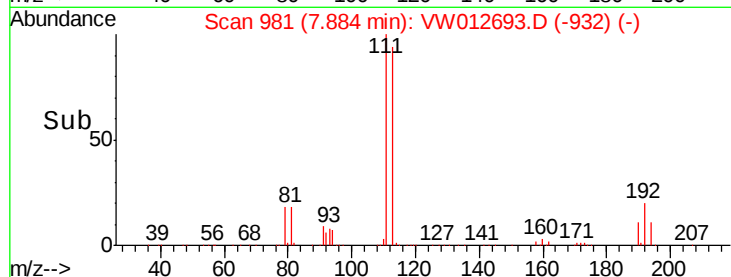
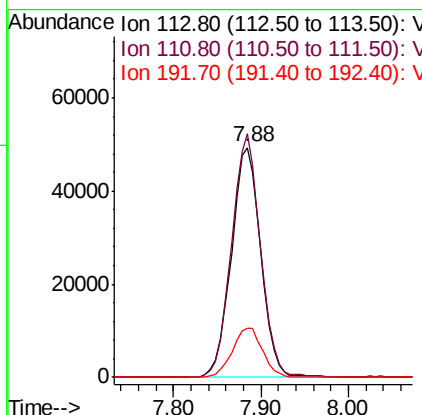
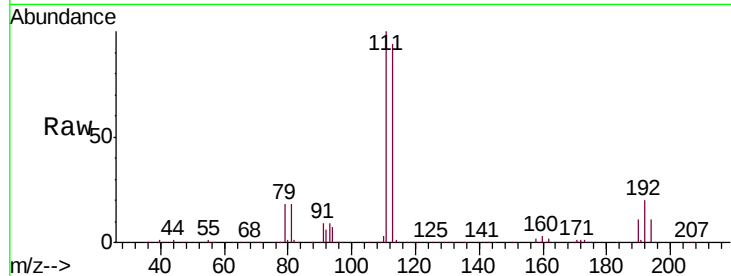




#35
 Dibromofluoromethane
 Concen: 48.590 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012693.D
 Acq: 06 Sep 2019 15:59

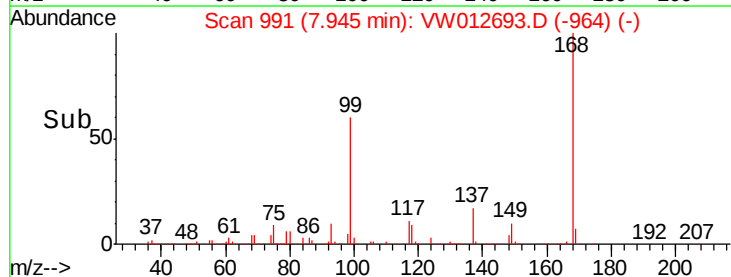
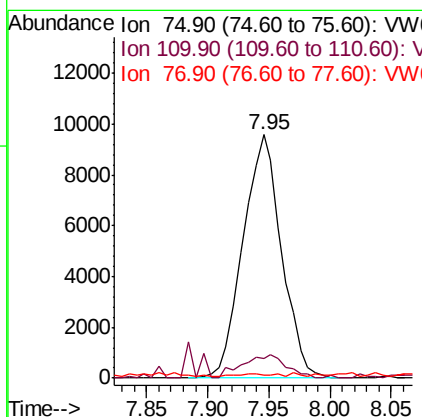
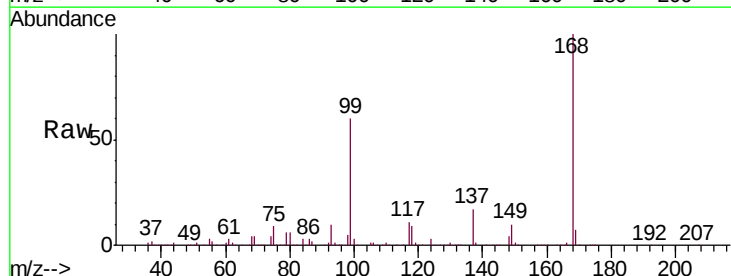
Instrument :
 MSVOA_W
 ClientSampleId :
 T12-B4-(0)

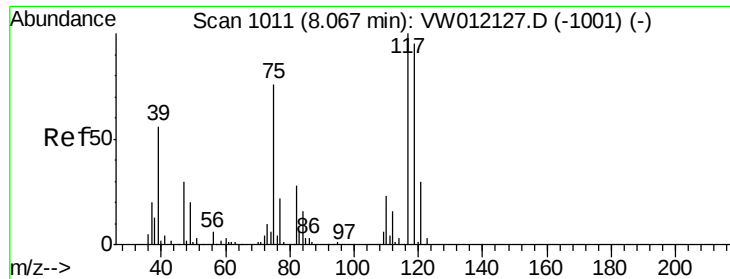
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.7	124.1
192	22.0	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.100 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012693.D
 Acq: 06 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	15.6	46.8#
77	1.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 7.132 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

T12-B4-(0)

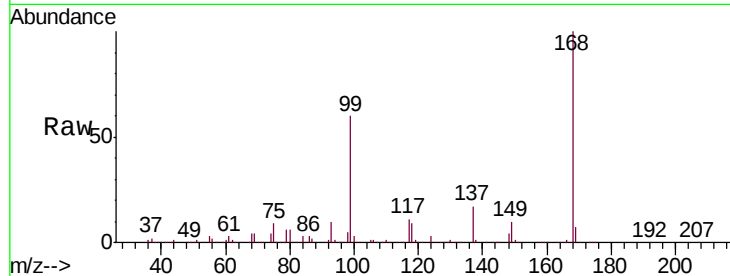
Tgt Ion:117 Resp: 25342

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

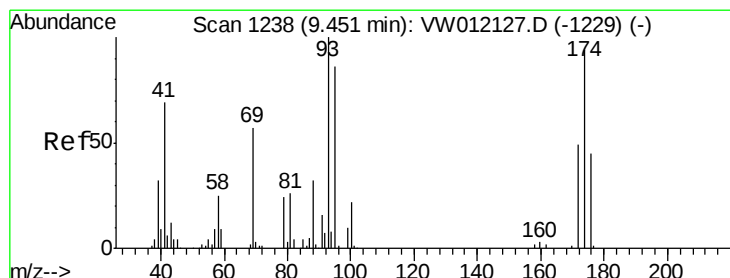
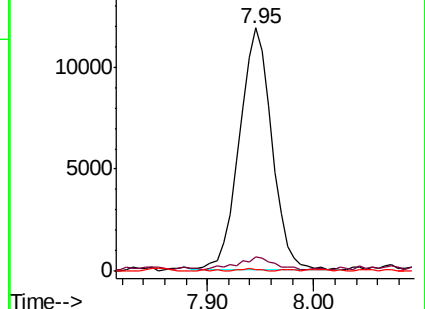
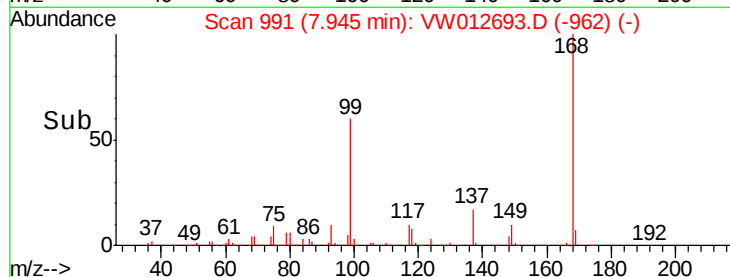
121 0.8 23.8 35.8#



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: 1.071 ug/l

RT: 9.43 min Scan# 1234

Delta R.T. -0.02 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

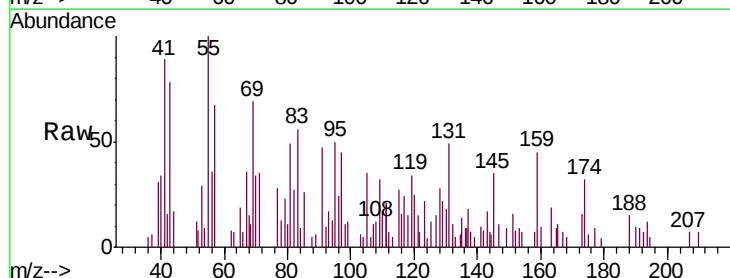
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 1331.8 32.9 49.3#

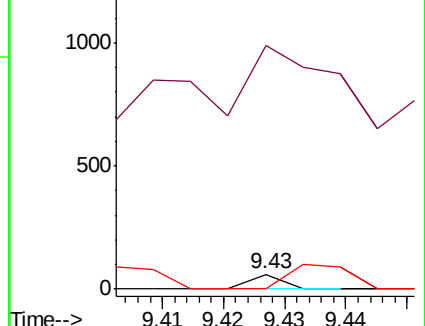
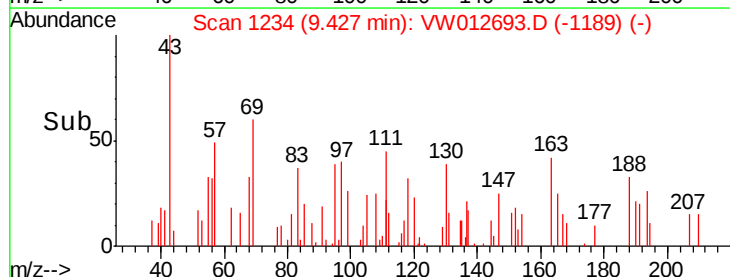
58 313.6 71.0 106.4#

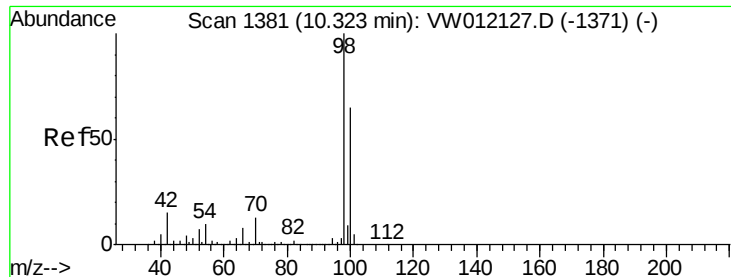


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 46.816 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

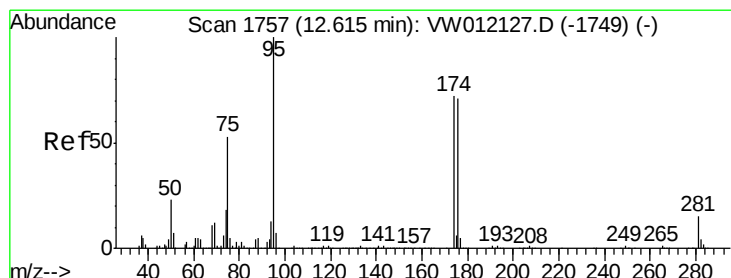
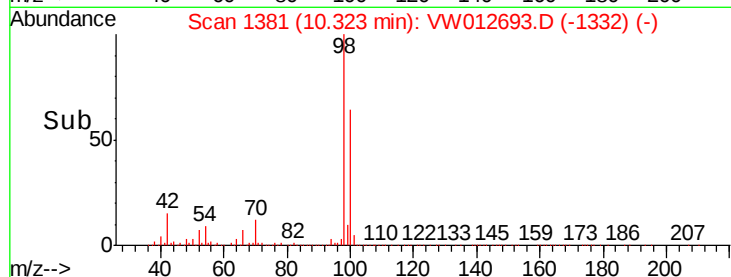
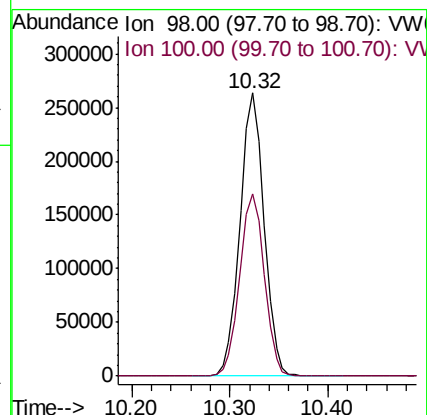
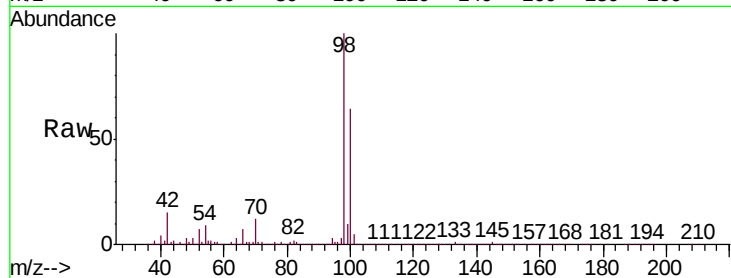
T12-B4-(0)

Tgt Ion: 98 Resp: 450133

Ion Ratio Lower Upper

98 100

100 66.1 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 46.363 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

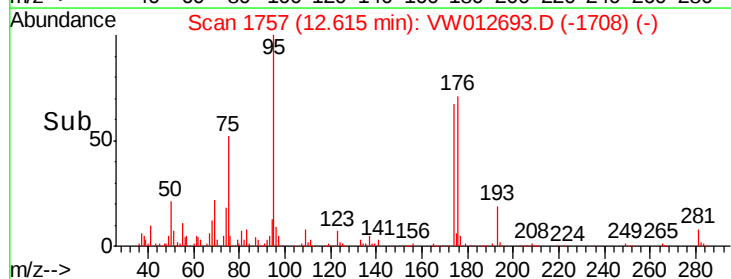
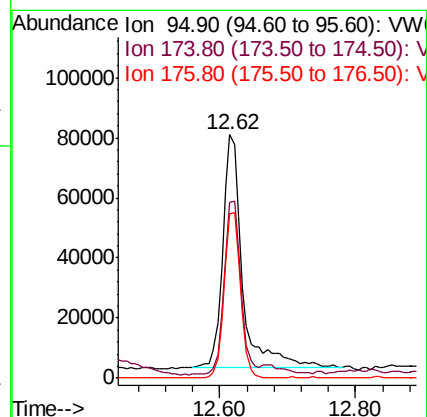
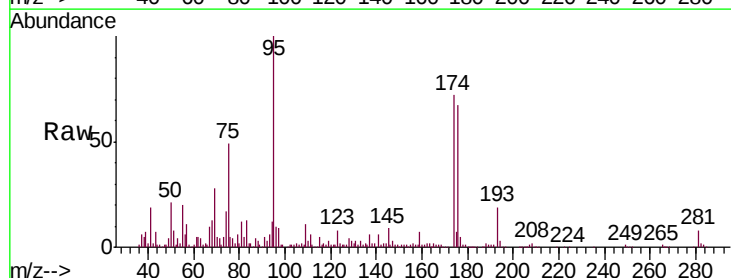
Tgt Ion: 95 Resp: 157137

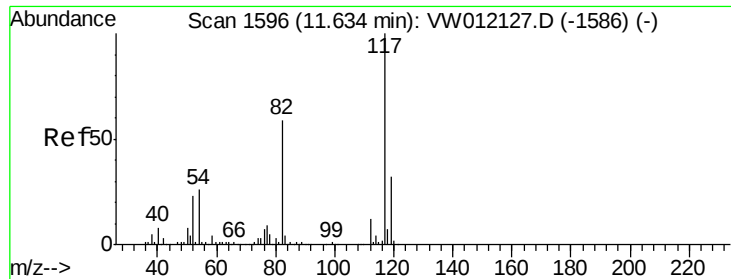
Ion Ratio Lower Upper

95 100

174 62.3 0.0 150.8

176 58.1 0.0 148.6

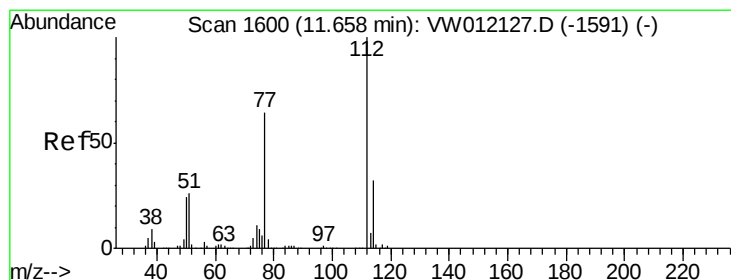
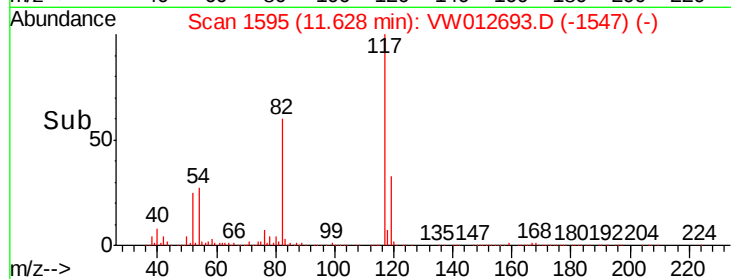
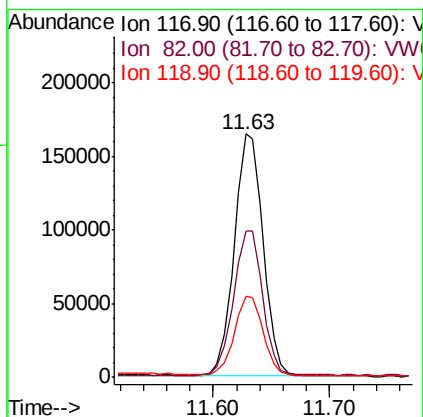
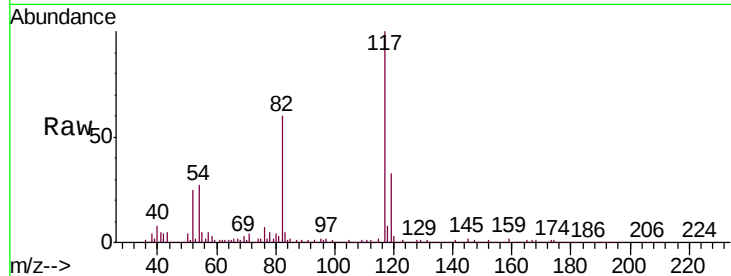




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012693.D
Acq: 06 Sep 2019 15:59

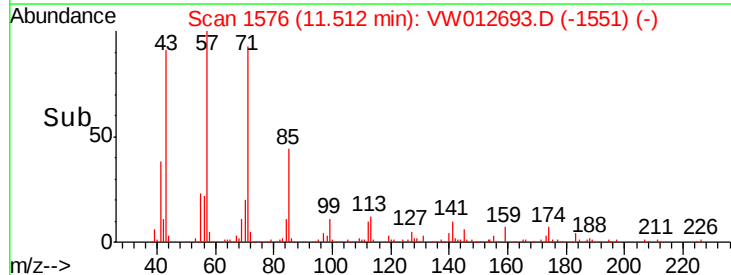
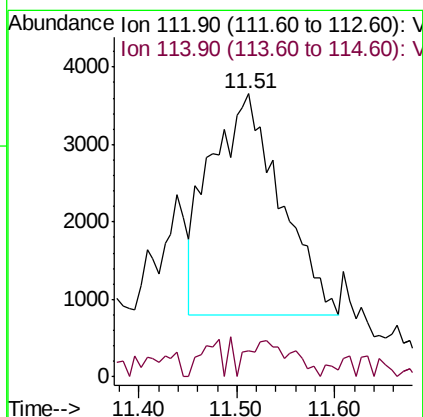
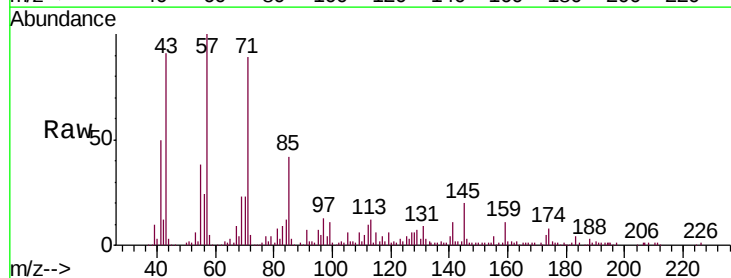
Instrument :
MSVOA_W
ClientSampleId :
T12-B4-(0)

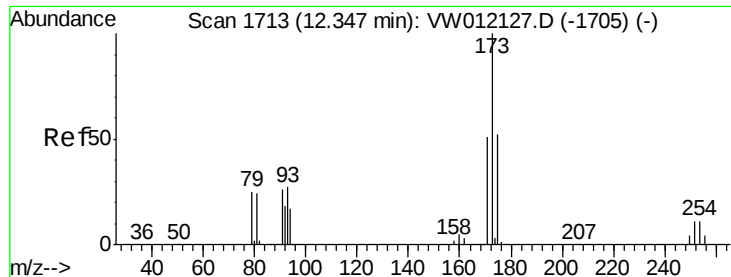
Tgt Ion:117 Resp: 283126
Ion Ratio Lower Upper
117 100
82 59.7 47.4 71.2
119 32.8 25.4 38.2



#65
Chlorobenzene
Concen: 2.536 ug/l
RT: 11.51 min Scan# 1576
Delta R.T. -0.15 min
Lab File: VW012693.D
Acq: 06 Sep 2019 15:59

Tgt Ion:112 Resp: 14137
Ion Ratio Lower Upper
112 100
114 12.0 25.8 38.6#





#71

Bromoform

Concen: 7.939 ug/l

RT: 12.33 min Scan# 1710

Delta R.T. -0.02 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

T12-B4-(0)

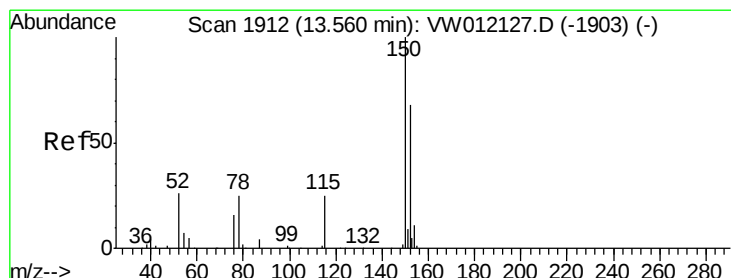
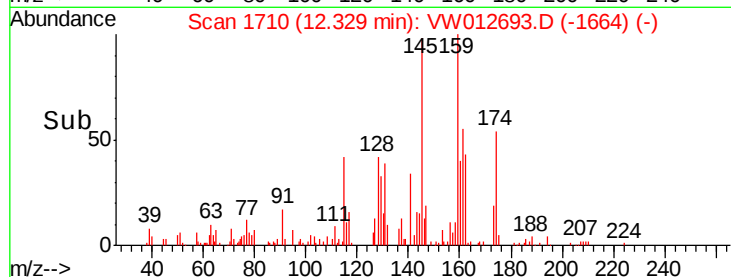
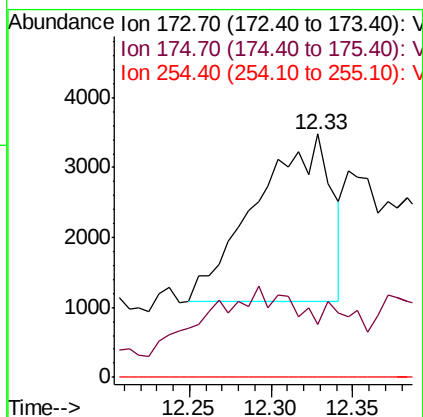
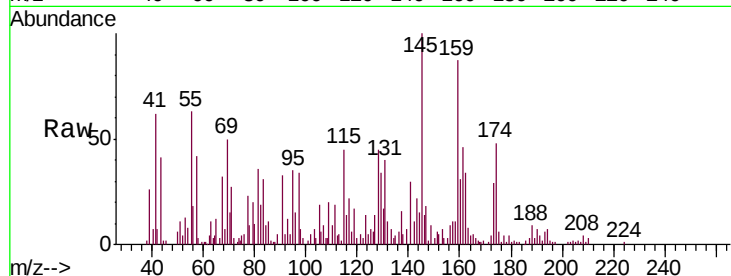
Tgt Ion:173 Resp: 7693

Ion Ratio Lower Upper

173 100

175 0.0 24.6 74.0#

254 0.0 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

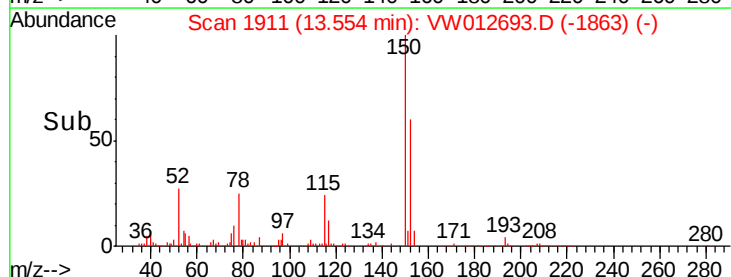
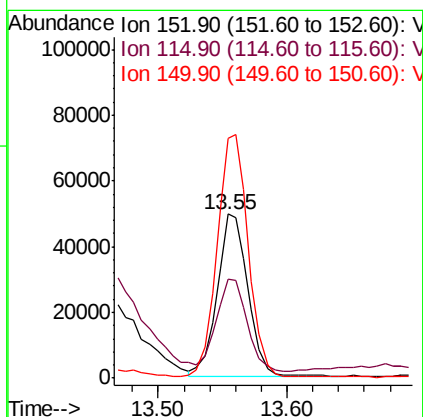
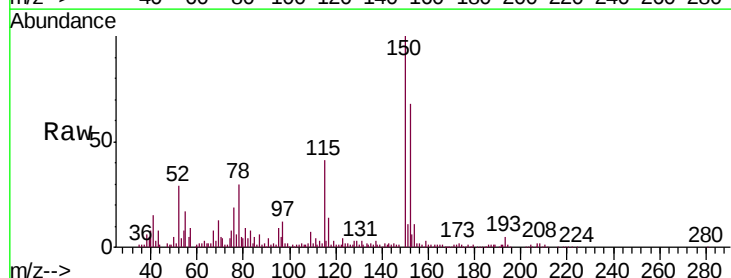
Tgt Ion:152 Resp: 82803

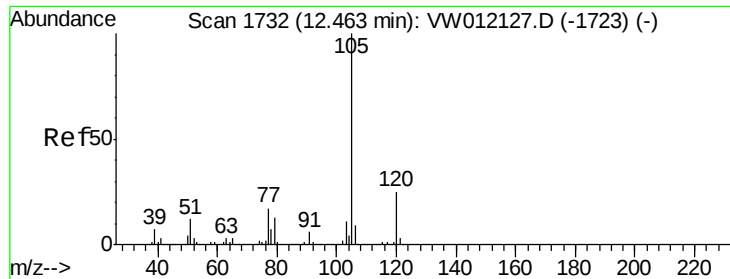
Ion Ratio Lower Upper

152 100

115 56.7 30.1 90.3

150 148.8 0.0 345.8





#73

Isopropylbenzene

Concen: 2.165 ug/l

RT: 12.44 min Scan# 1729

Delta R.T. -0.02 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

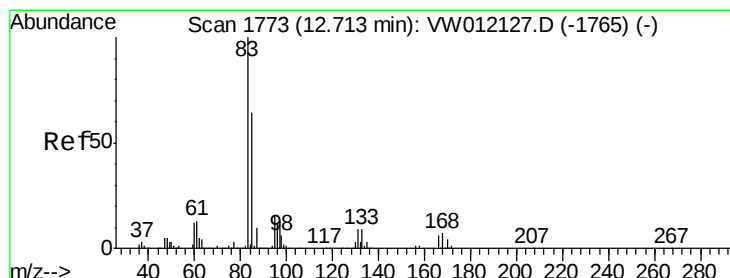
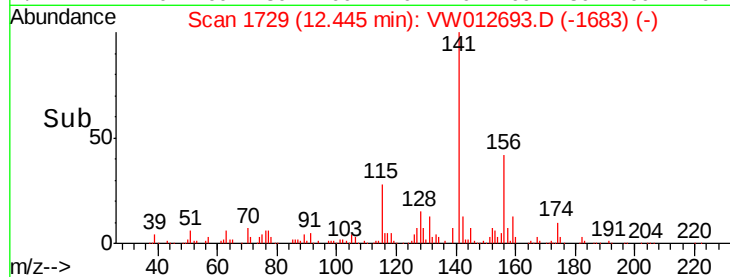
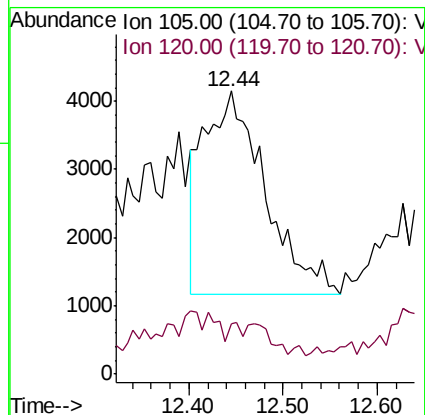
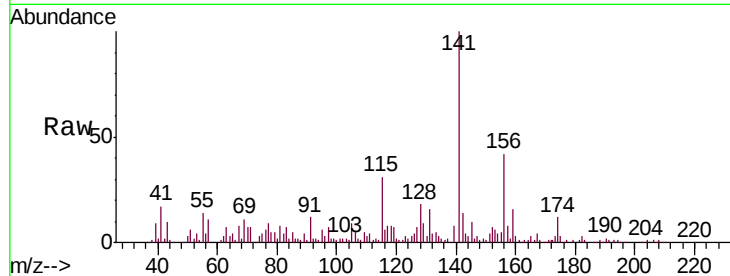
T12-B4-(0)

Tgt Ion: 105 Resp: 13431

Ion Ratio Lower Upper

105 100

120 1.7 12.5 37.5#



#75

1,1,2,2-Tetrachloroethane

Concen: 57.594 ug/l

RT: 12.63 min Scan# 1760

Delta R.T. -0.08 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

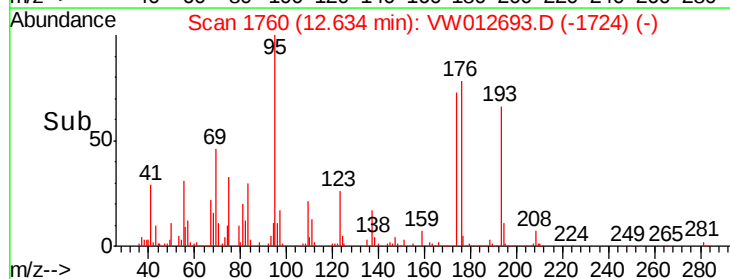
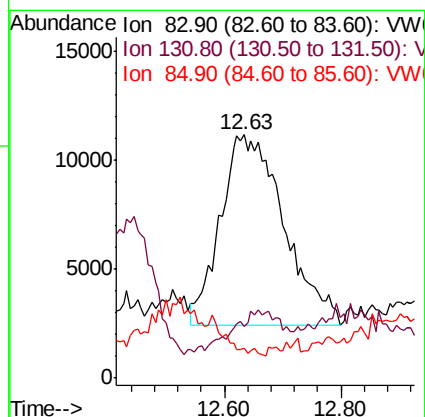
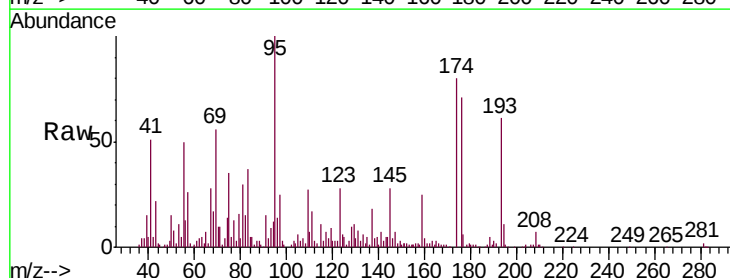
Tgt Ion: 83 Resp: 65512

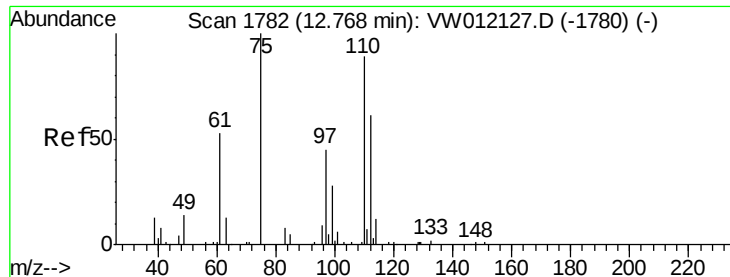
Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 78.810 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.10 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

Instrument :

MSVOA_W

ClientSampleId :

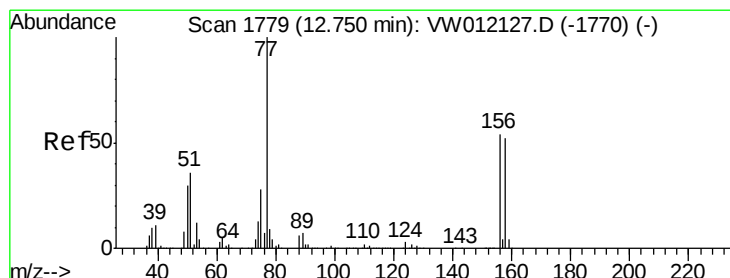
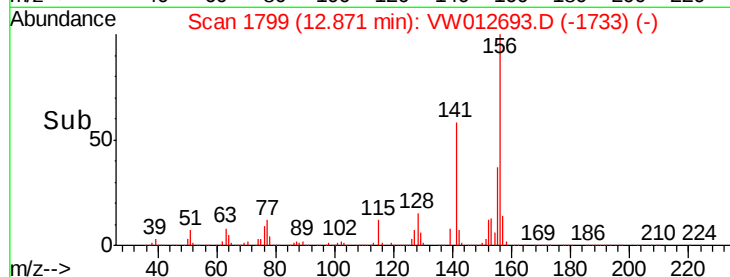
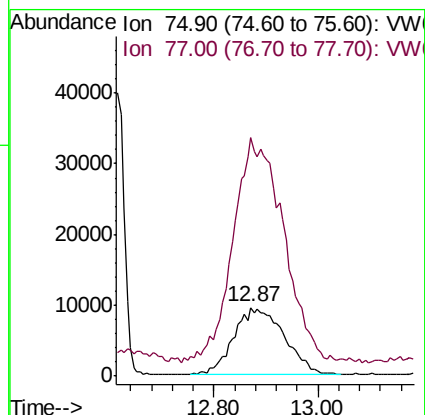
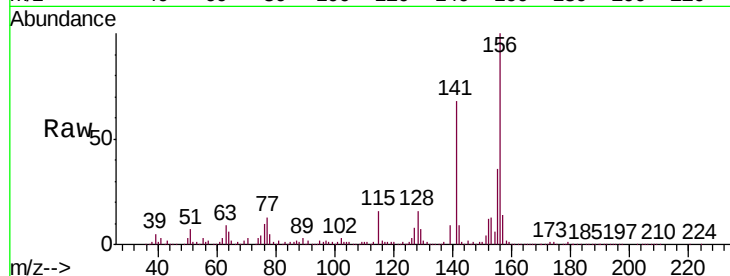
T12-B4-(0)

Tgt Ion: 75 Resp: 63556

Ion Ratio Lower Upper

75 100

77 166.9 0.0 0.0#



#77

Bromobenzene

Concen: 1344.600 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.12 min

Lab File: VW012693.D

Acq: 06 Sep 2019 15:59

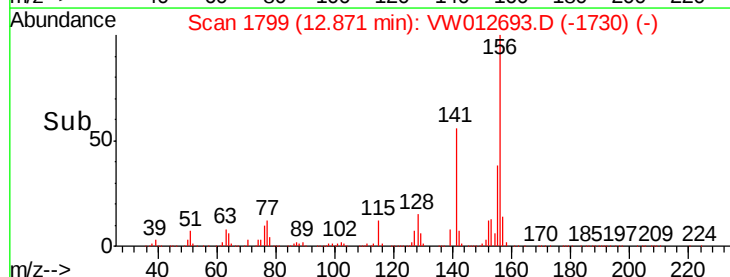
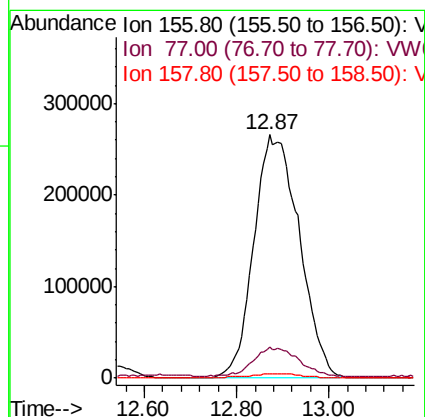
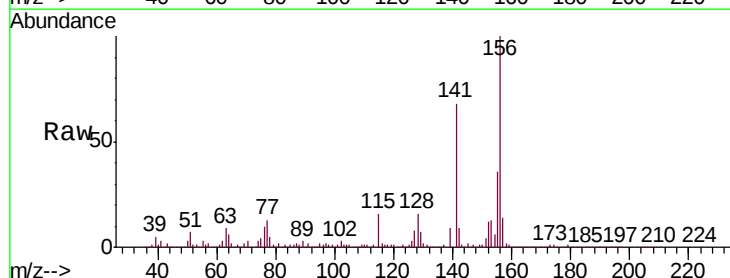
Tgt Ion: 156 Resp: 1804839

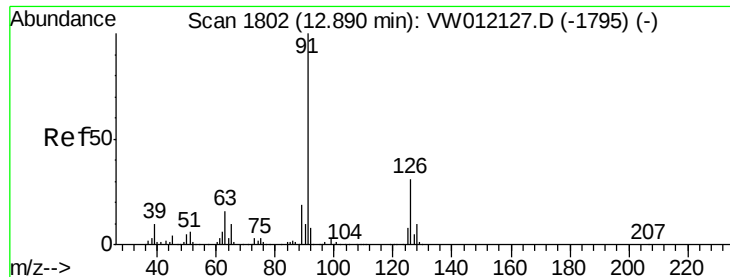
Ion Ratio Lower Upper

156 100

77 5.9 107.3 321.8#

158 0.0 49.0 147.0#

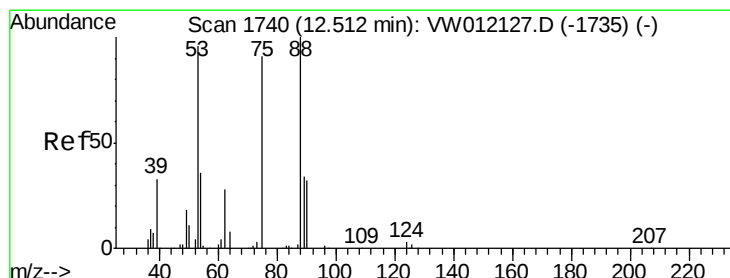
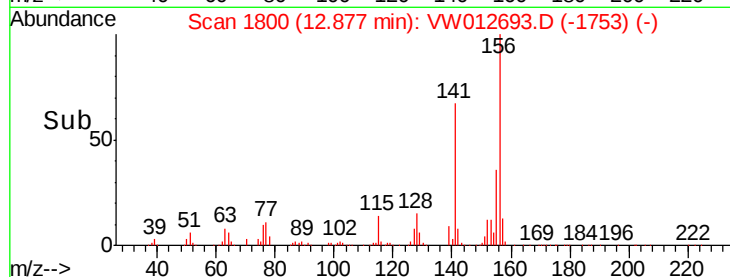
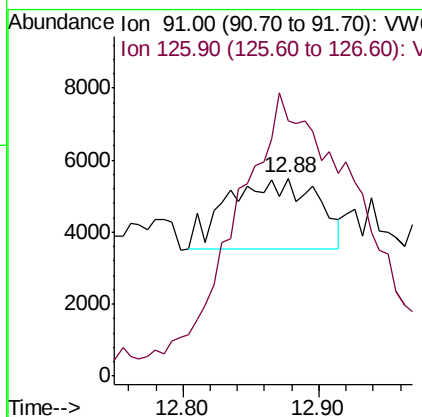
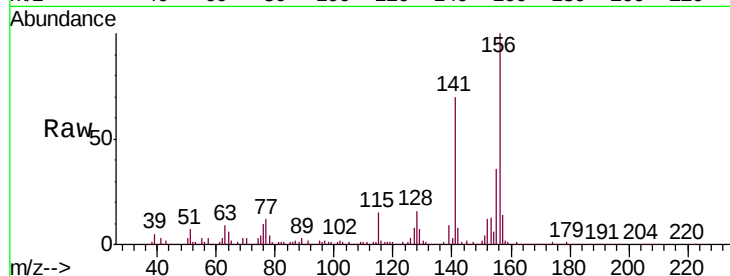




#79
 2-Chlorotoluene
 Concen: 2.069 ug/l
 RT: 12.88 min Scan# 1800
 Delta R.T. -0.01 min
 Lab File: VW012693.D
 Acq: 06 Sep 2019 15:59

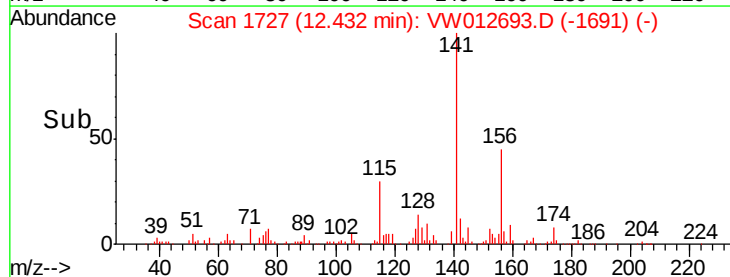
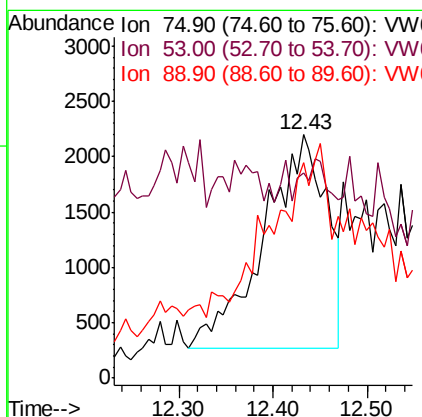
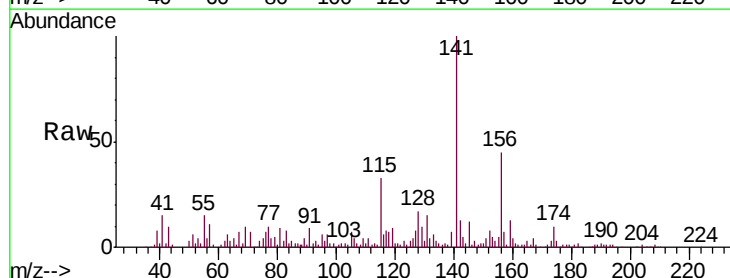
Instrument :
 MSVOA_W
 ClientSampleId :
 T12-B4-(0)

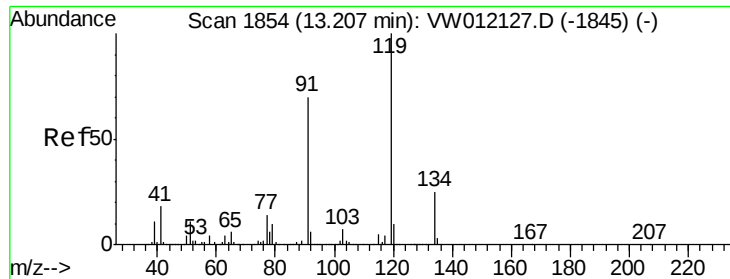
Tgt Ion: 91 Resp: 8899
 Ion Ratio Lower Upper
 91 100
 126 520.3 15.7 47.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 24.273 ug/l
 RT: 12.43 min Scan# 1727
 Delta R.T. -0.08 min
 Lab File: VW012693.D
 Acq: 06 Sep 2019 15:59

Tgt Ion: 75 Resp: 8928
 Ion Ratio Lower Upper
 75 100
 53 5.3 89.4 134.0#
 89 62.3 34.5 51.7#

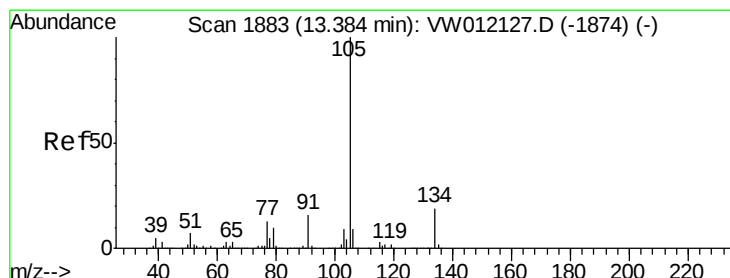
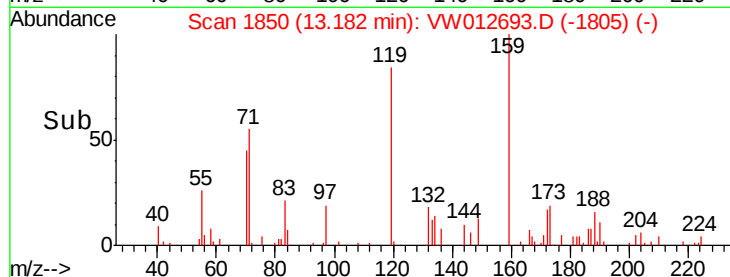
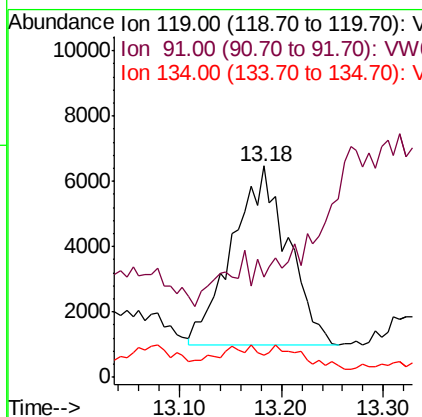
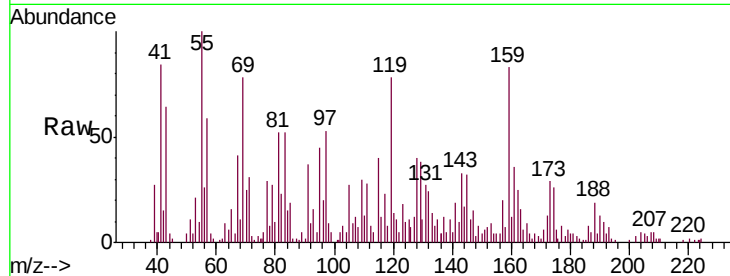




#83
tert-Butylbenzene
Concen: 4.753 ug/l
RT: 13.18 min Scan# 1850
Delta R.T. -0.02 min
Lab File: VW012693.D
Acq: 06 Sep 2019 15:59

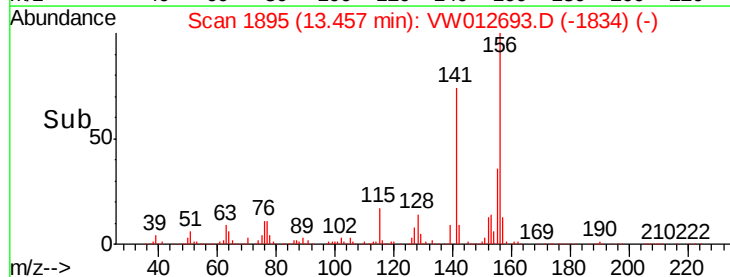
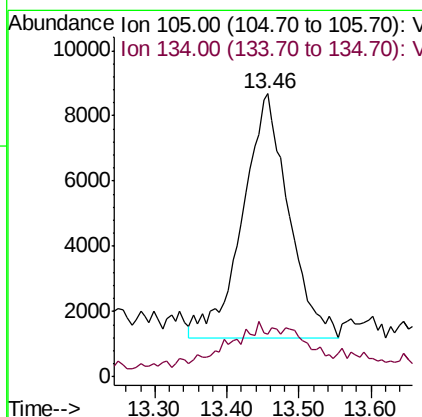
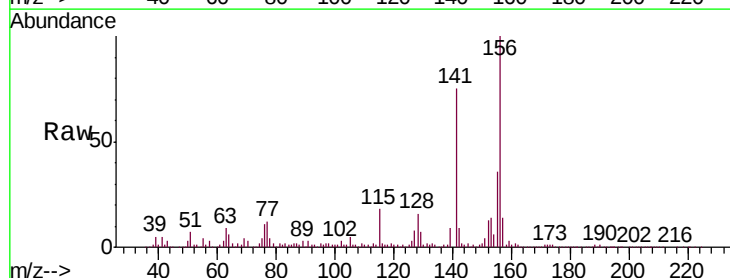
Instrument :
MSVOA_W
ClientSampleId :
T12-B4-(0)

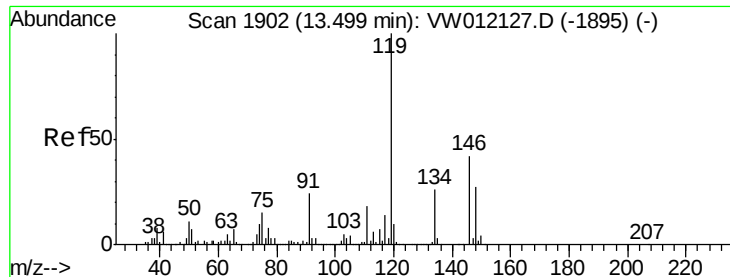
Tgt Ion:119 Resp: 20873
Ion Ratio Lower Upper
119 100
91 0.0 34.8 104.3#
134 4.5 13.3 39.8#



#85
sec-Butylbenzene
Concen: 5.320 ug/l
RT: 13.46 min Scan# 1895
Delta R.T. 0.07 min
Lab File: VW012693.D
Acq: 06 Sep 2019 15:59

Tgt Ion:105 Resp: 33472
Ion Ratio Lower Upper
105 100
134 8.0 9.8 29.4#

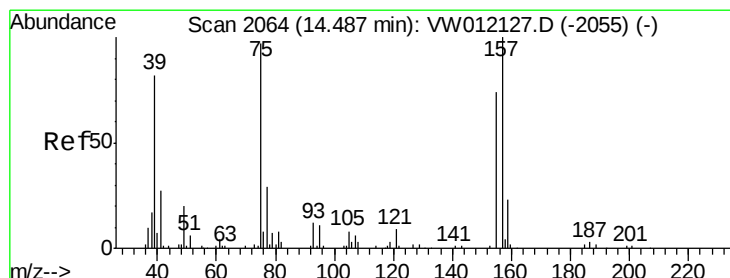
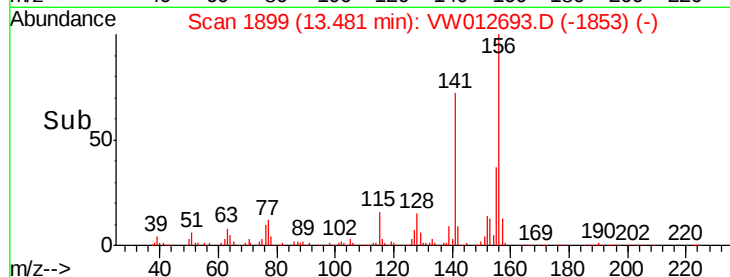
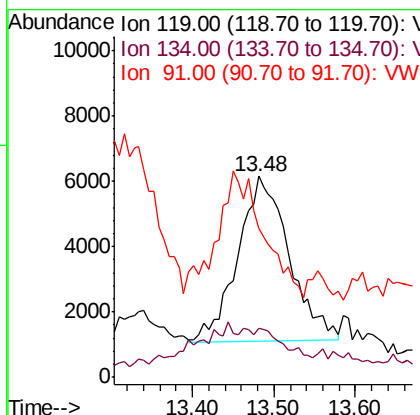
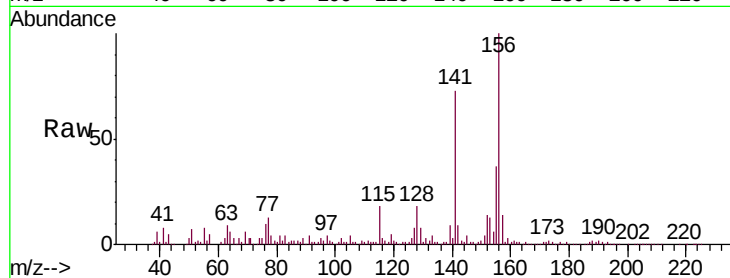




#86
p-Isopropyltoluene
Concen: 3.944 ug/l
RT: 13.48 min Scan# 1899
Delta R.T. -0.02 min
Lab File: VW012693.D
Acq: 06 Sep 2019 15:59

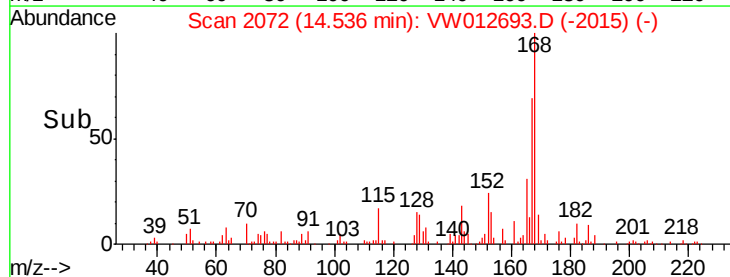
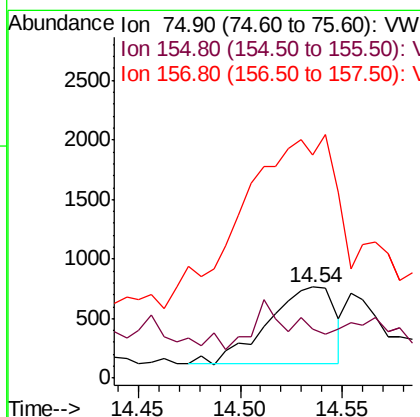
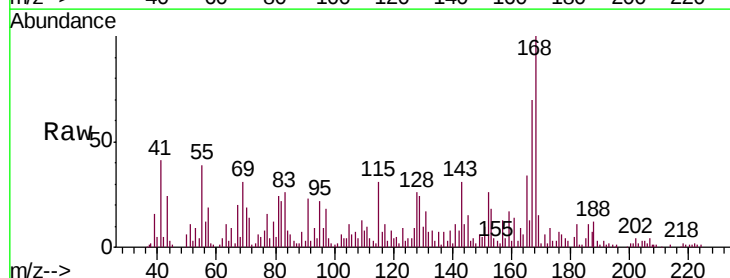
Instrument :
MSVOA_W
ClientSampleId :
T12-B4-(0)

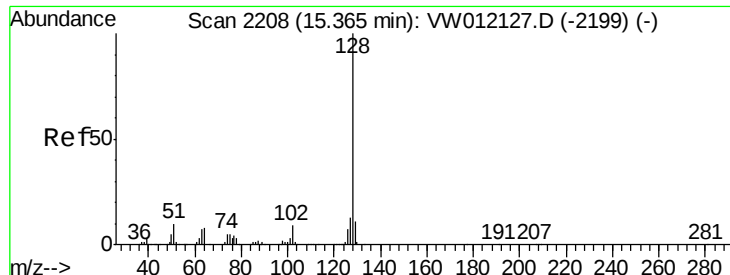
Tgt Ion: 119 Resp: 22159
Ion Ratio Lower Upper
119 100
134 0.0 12.8 38.3#
91 0.0 12.3 36.9#



#92
1,2-Dibromo-3-Chloropropane
Concen: 7.723 ug/l
RT: 14.54 min Scan# 2072
Delta R.T. 0.05 min
Lab File: VW012693.D
Acq: 06 Sep 2019 15:59

Tgt Ion: 75 Resp: 1481
Ion Ratio Lower Upper
75 100
155 0.0 37.5 112.3#
157 366.7 50.5 151.5#





#95
Naphthalene
Concen: 9.006 ug/l
RT: 15.26 min Scan# 2191
Delta R.T. -0.10 min
Lab File: VW012693.D
Acq: 06 Sep 2019 15:59

Instrument :
MSVOA_W
ClientSampleId :
T12-B4-(0)

Tgt Ion:128 Resp: 16017
Ion Ratio Lower Upper
128 100
127 47.5 10.7 16.1#
129 60.8 8.7 13.1#

