

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082819\
 Data File : VW012281.D
 Acq On : 29 Aug 2019 04:37
 Operator : SY/VA
 Sample : K4498-04
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BOTTOM-3

Quant Time: Aug 29 06:54:34 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	260489	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	437173	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	378840	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	153882	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	159327	51.45	ug/l	0.00
Spiked Amount						
			Recovery	=	102.90%	
35) Dibromofluoromethane	7.88	113	129251	49.53	ug/l	0.00
Spiked Amount						
			Recovery	=	99.06%	
50) Toluene-d8	10.32	98	551467	52.12	ug/l	0.00
Spiked Amount						
			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	12.62	95	221223	59.31	ug/l	0.00
Spiked Amount						
			Recovery	=	118.62%	

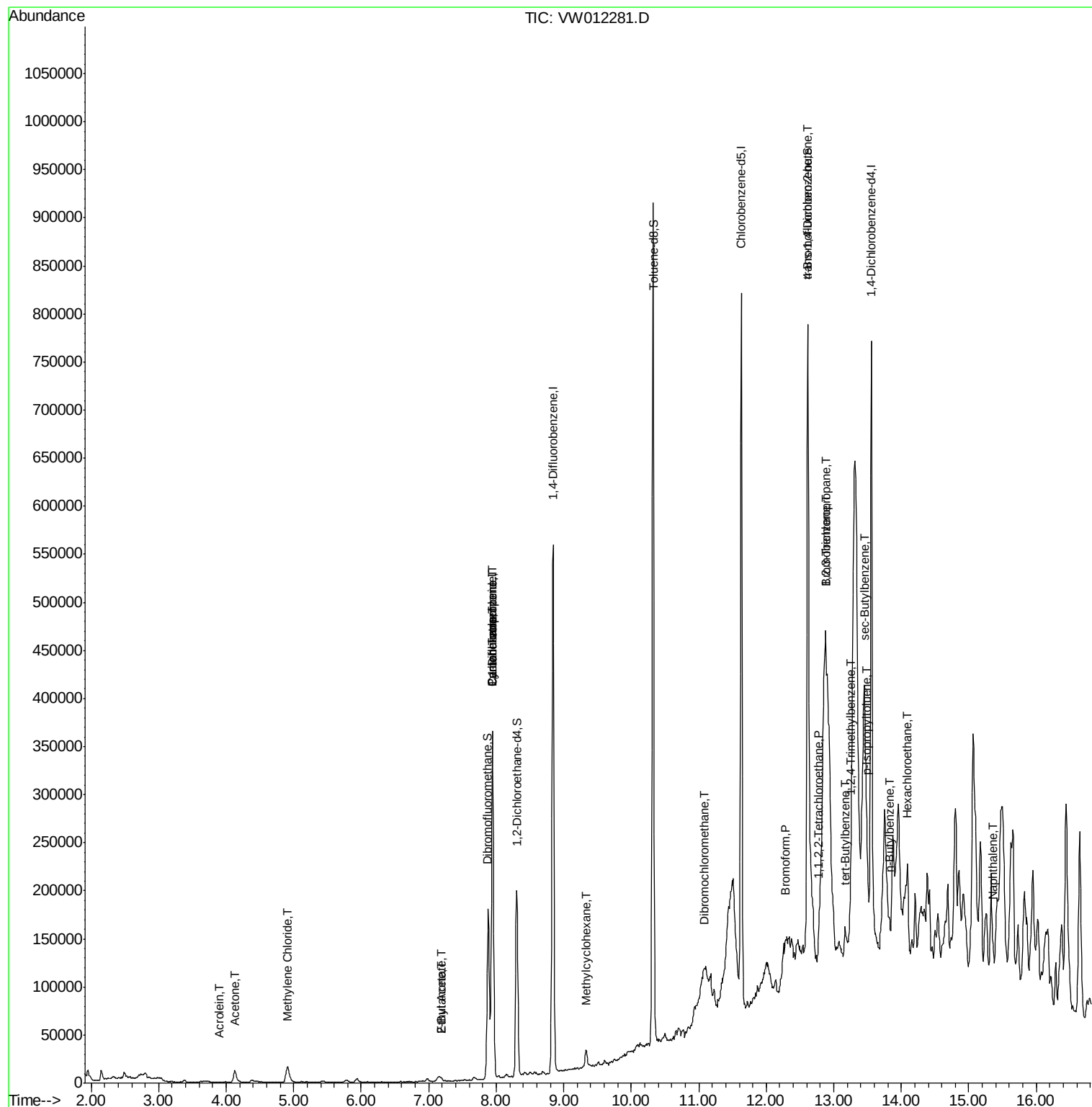
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.90	56	259	1.476	ug/l #	15
16) Acetone	4.13	43	24446	30.884	ug/l	100
20) Methylene Chloride	4.91	84	11643	3.891	ug/l	92
25) 2-Butanone	7.19	43	4959	4.610	ug/l #	85
31) Cyclohexane	7.95	56	7709	1.382	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	22042	4.879	ug/l #	53
37) Ethyl Acetate	7.19	43	4959	2.003	ug/l #	90
38) Carbon Tetrachloride	7.95	117	26903	6.880	ug/l #	15
39) Methylcyclohexane	9.33	83	7308	1.440	ug/l	90
60) Dibromochloromethane	11.08	129	20879	8.969	ug/l #	17
71) Bromoform	12.29	173	2326	1.794	ug/l #	96
75) 1,1,2,2-Tetrachloroethane	12.77	83	2192	1.037	ug/l #	43
76) 1,2,3-Trichloropropane	12.88	75	20185	13.468	ug/l #	100
77) Bromobenzene	12.88	156	537398	215.431	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	98272	143.768	ug/l #	9
83) tert-Butylbenzene	13.18	119	9942	1.218	ug/l #	35
84) 1,2,4-Trimethylbenzene	13.25	105	10770	1.113	ug/l	98
85) sec-Butylbenzene	13.44	105	13445	1.150	ug/l	85
86) p-Isopropyltoluene	13.49	119	13834	1.325	ug/l #	62
89) n-Butylbenzene	13.82	91	18430	1.775	ug/l #	85
90) Hexachloroethane	14.10	117	4028	2.199	ug/l #	13
95) Naphthalene	15.36	128	5076	5.120	ug/l #	83

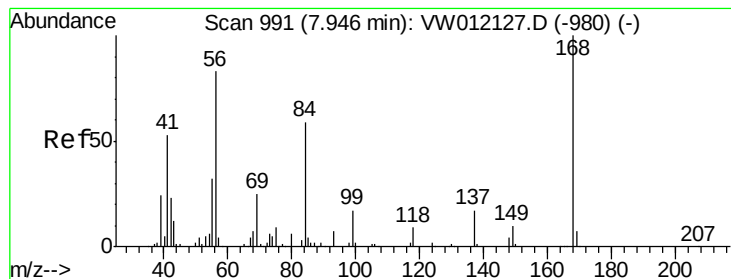
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

Instrument :

MSVOA_W

ClientSampleId :

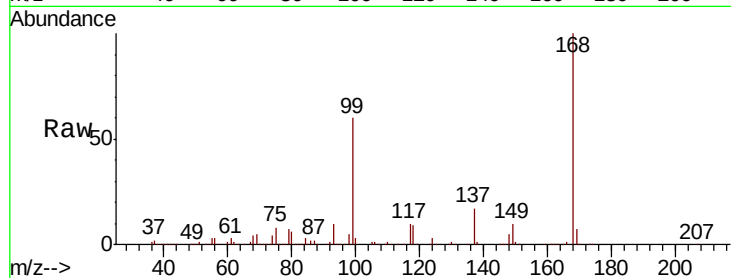
BOTTOM-3

Tgt Ion:168 Resp: 260489

Ion Ratio Lower Upper

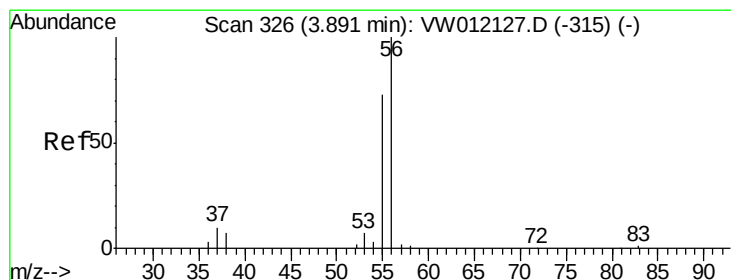
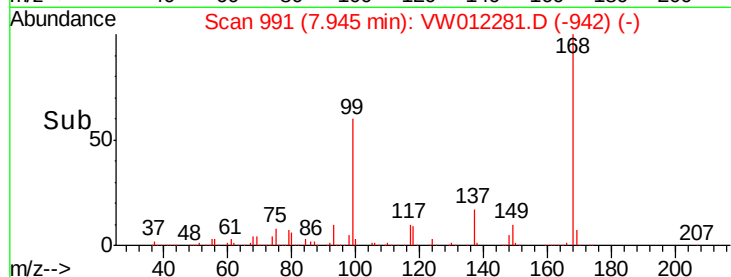
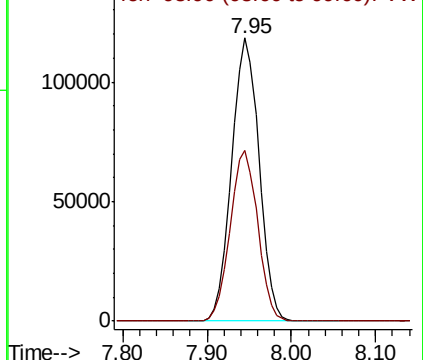
168 100

99 60.1 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#13

Acrolein

Concen: 1.476 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW012281.D

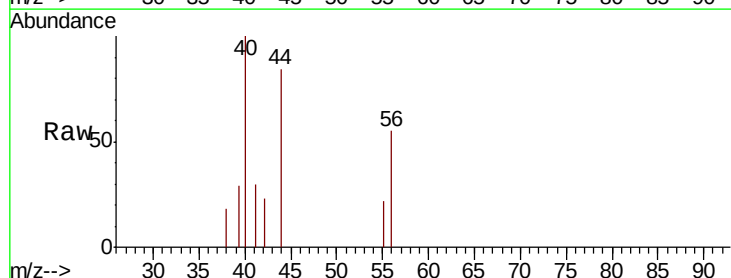
Acq: 29 Aug 2019 04:37

Tgt Ion: 56 Resp: 259

Ion Ratio Lower Upper

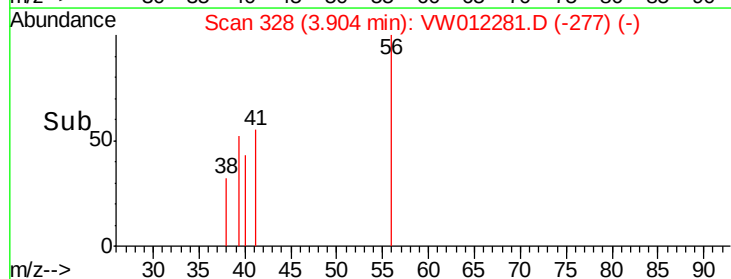
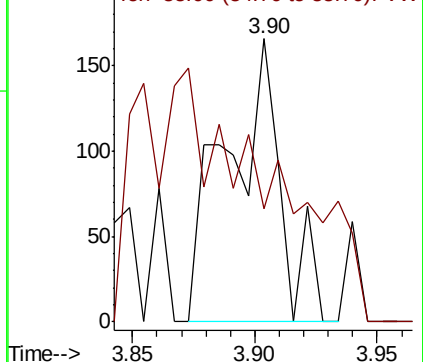
56 100

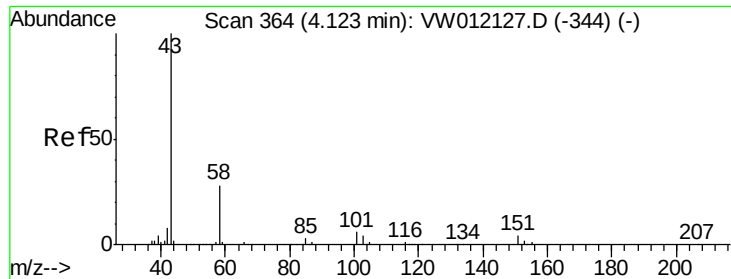
55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

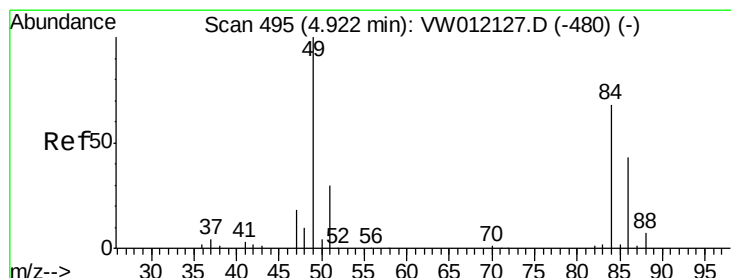
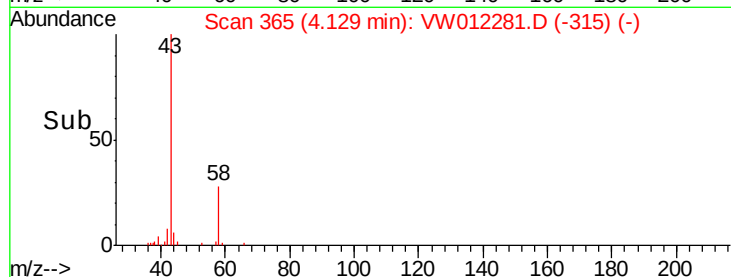
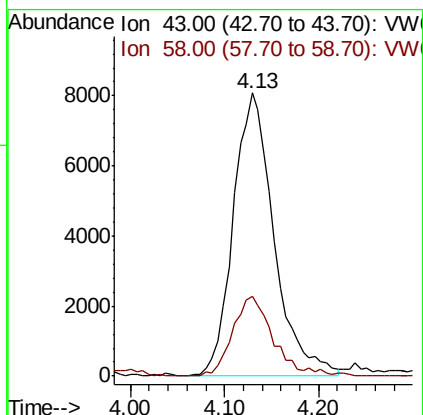
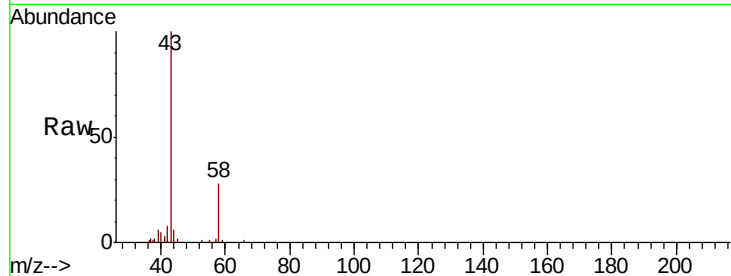




#16
Acetone
Concen: 30.884 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

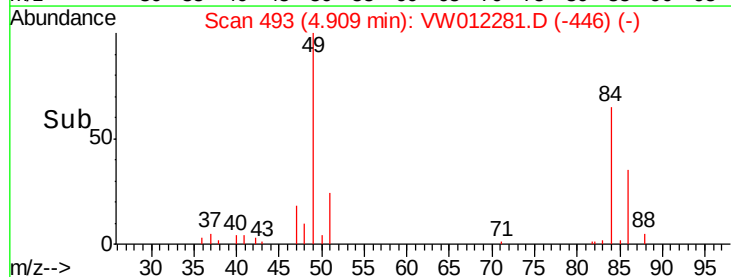
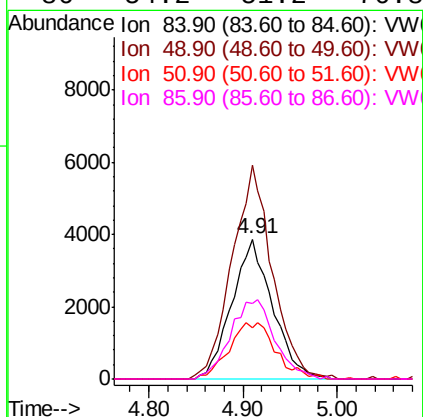
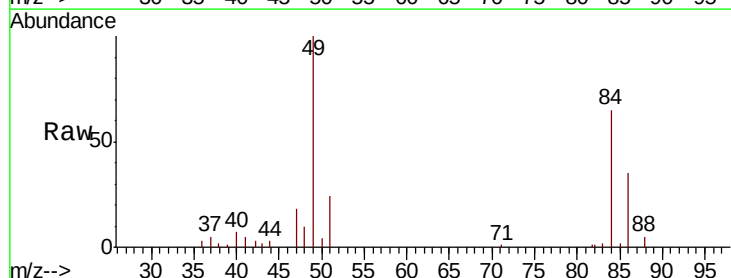
Instrument :
MSVOA_W
ClientSampleId :
BOTTOM-3

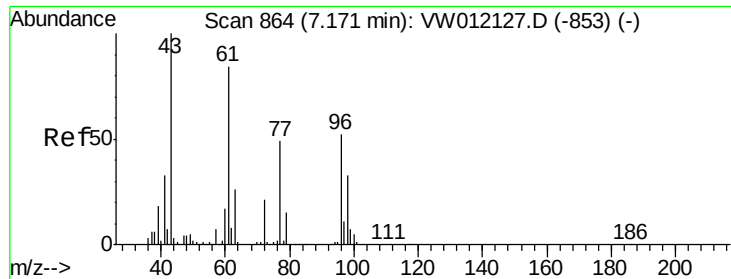
Tgt Ion: 43 Resp: 24446
Ion Ratio Lower Upper
43 100
58 28.2 22.4 33.6



#20
Methylene Chloride
Concen: 3.891 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

Tgt Ion: 84 Resp: 11643
Ion Ratio Lower Upper
84 100
49 152.9 117.8 176.8
51 36.5 35.6 53.4
86 54.2 51.2 76.8

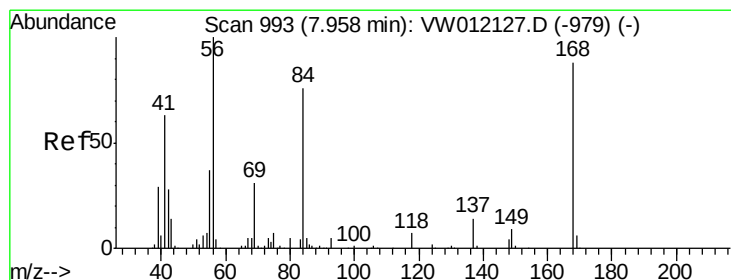
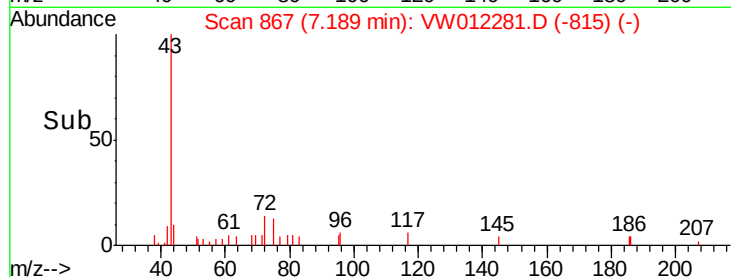
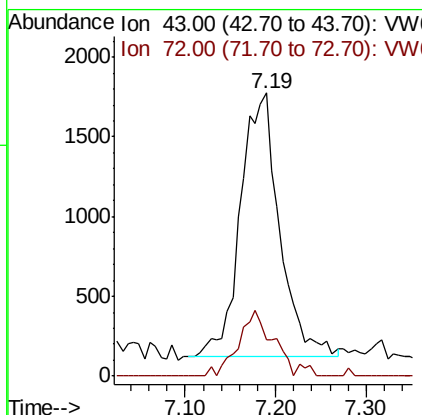
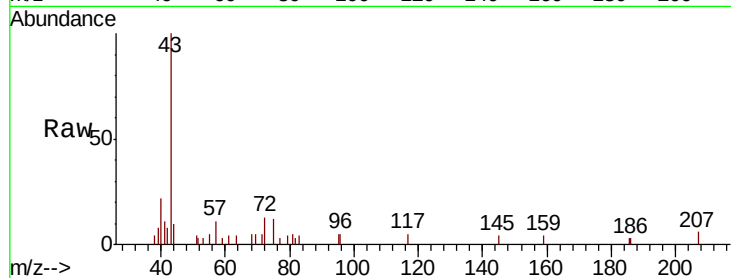




#25
2-Butanone
Concen: 4.610 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.02 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

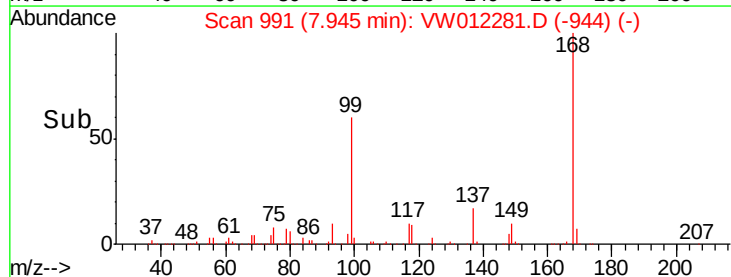
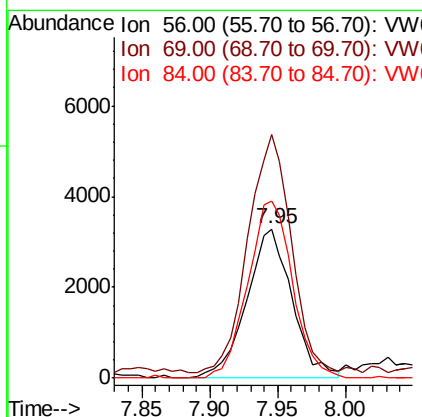
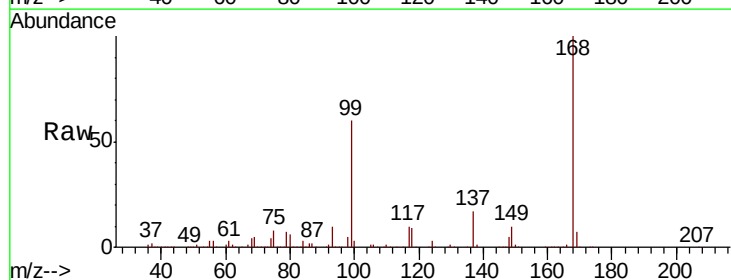
Instrument :
MSVOA_W
ClientSampleId :
BOTTOM-3

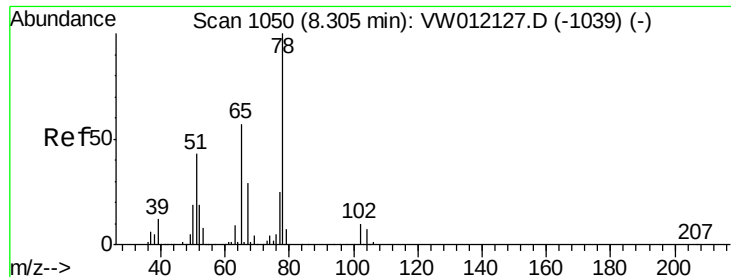
Tgt Ion: 43 Resp: 4959
Ion Ratio Lower Upper
43 100
72 13.8 16.6 24.8#



#31
Cyclohexane
Concen: 1.382 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

Tgt Ion: 56 Resp: 7709
Ion Ratio Lower Upper
56 100
69 159.3 24.9 37.3#
84 118.9 60.6 90.8#

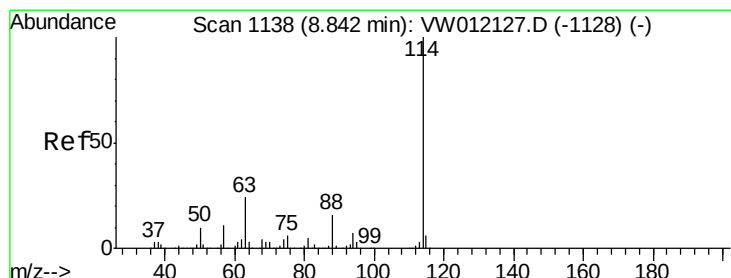
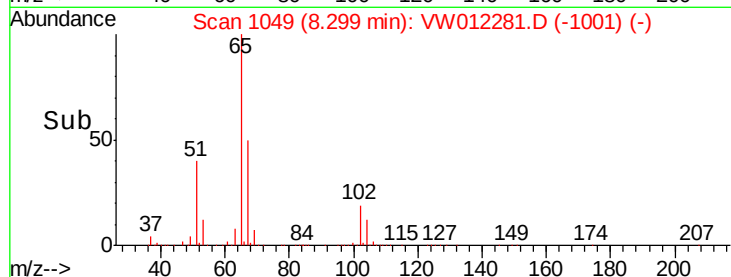
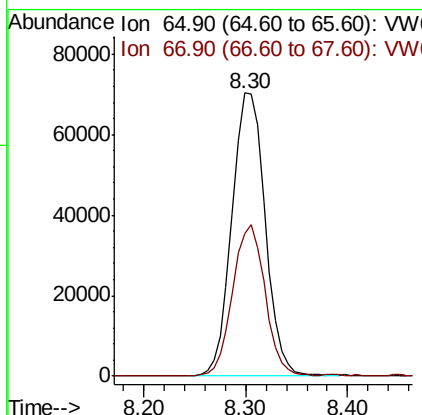
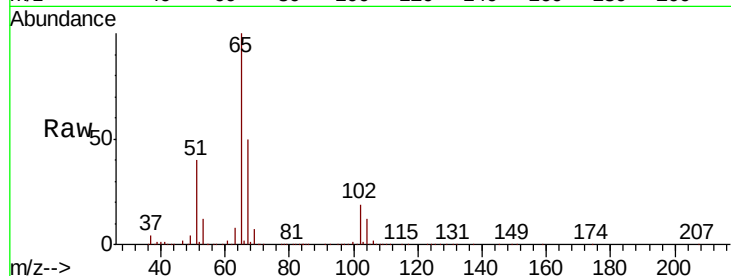




#33
 1,2-Dichloroethane-d4
 Concen: 51.453 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

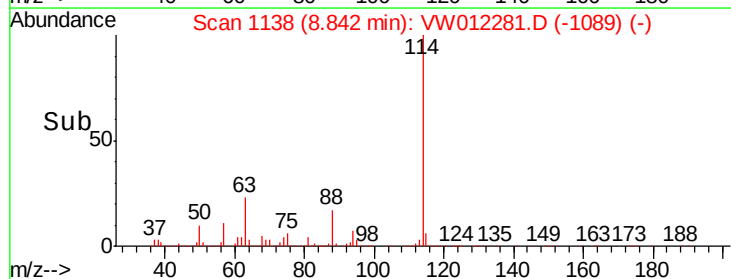
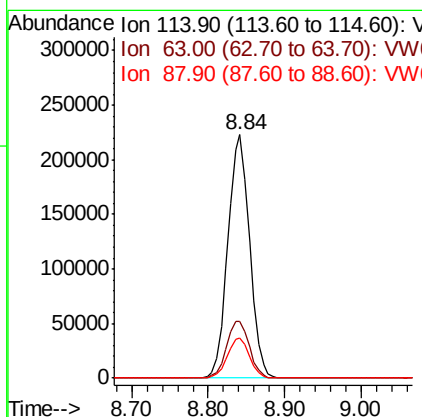
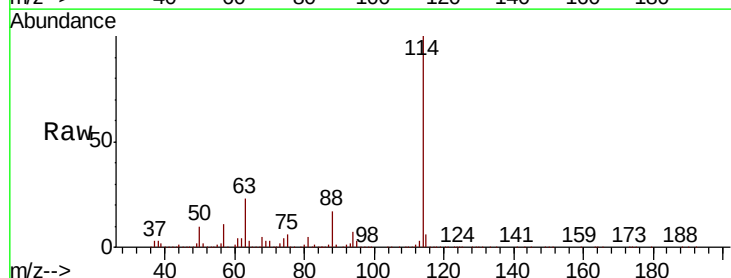
Instrument :
 MSVOA_W
 ClientSampleId :
 BOTTOM-3

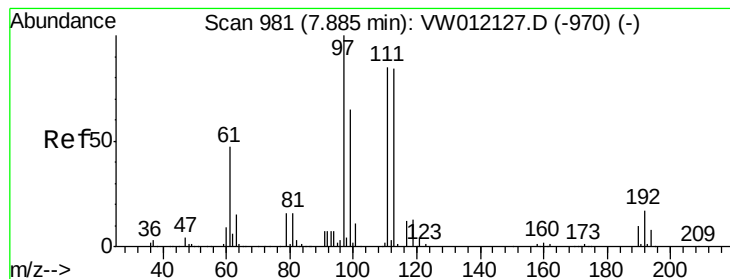
Tgt Ion: 65 Resp: 159327
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

Tgt Ion: 114 Resp: 437173
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 48.6
 88 16.7 0.0 32.2





#35

Dibromofluoromethane

Concen: 49.531 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

Instrument :

MSVOA_W

ClientSampleId :

BOTTOM-3

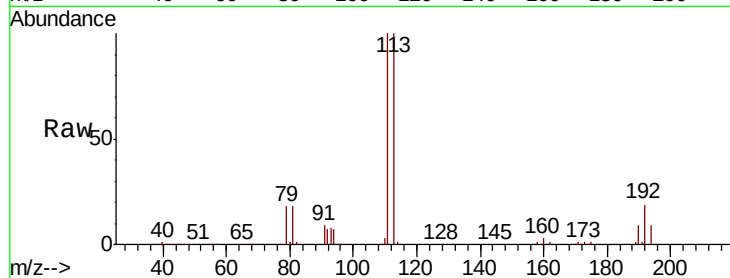
Tgt Ion:113 Resp: 129251

Ion Ratio Lower Upper

113 100

111 103.7 82.7 124.1

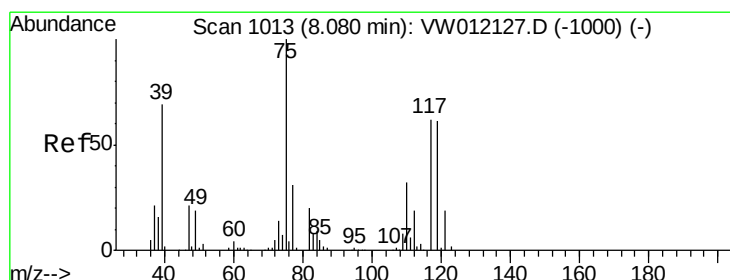
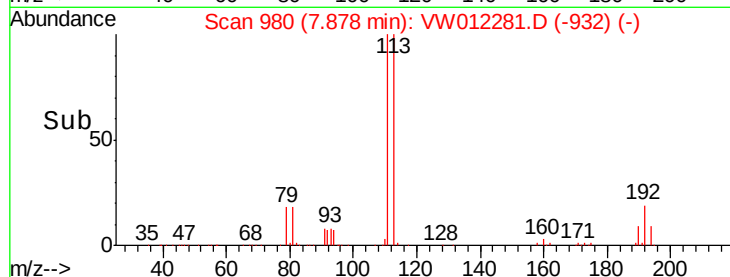
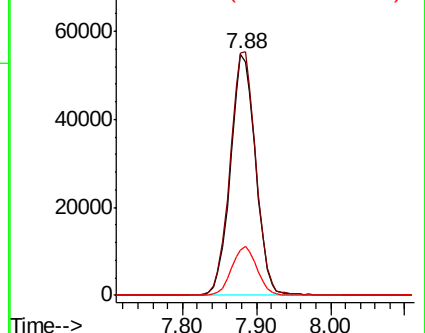
192 20.6 16.2 24.2



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: 4.879 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

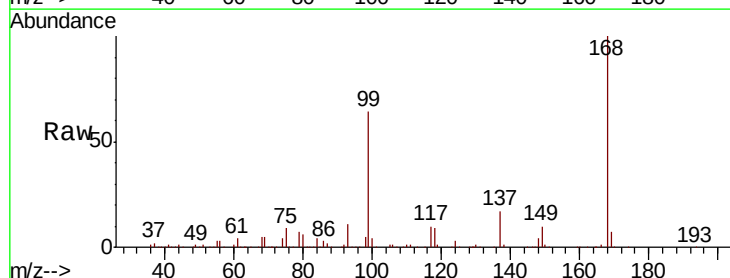
Tgt Ion: 75 Resp: 22042

Ion Ratio Lower Upper

75 100

110 9.4 15.6 46.8#

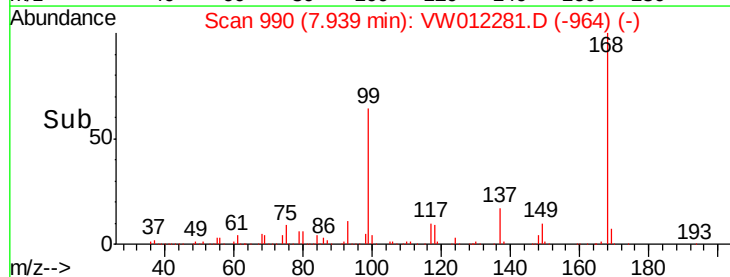
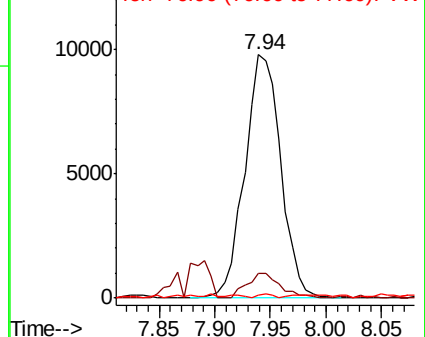
77 0.7 24.6 36.8#

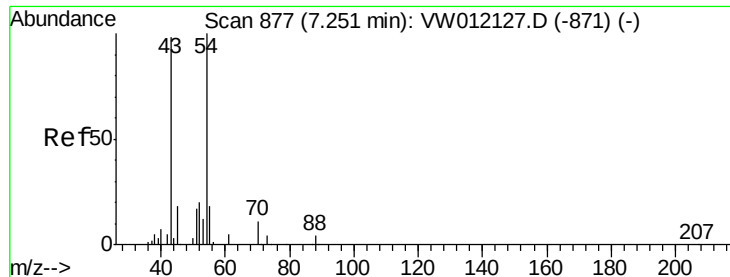


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 2.003 ug/l

RT: 7.19 min Scan# 867

Delta R.T. -0.06 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

Instrument :

MSVOA_W

ClientSampleId :

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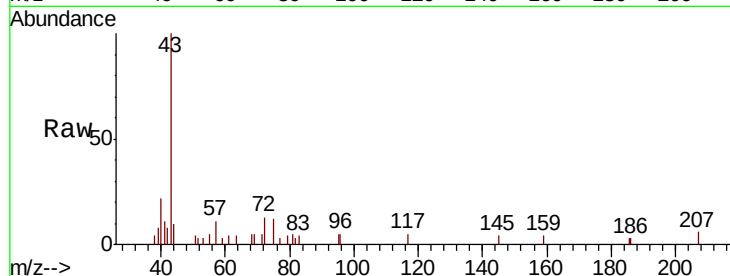
Tgt Ion: 43 Resp: 4959

Ion Ratio Lower Upper

43 100

61 11.8 9.2 13.8

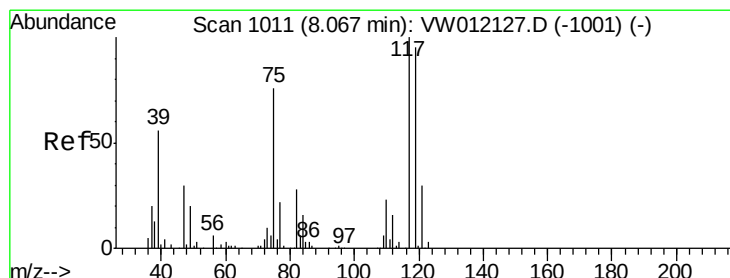
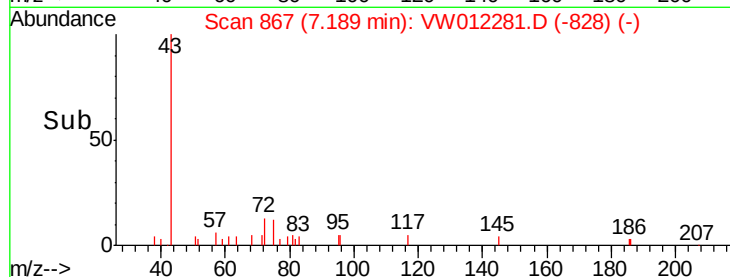
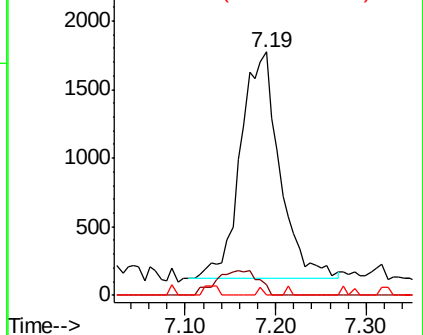
70 0.4 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.880 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

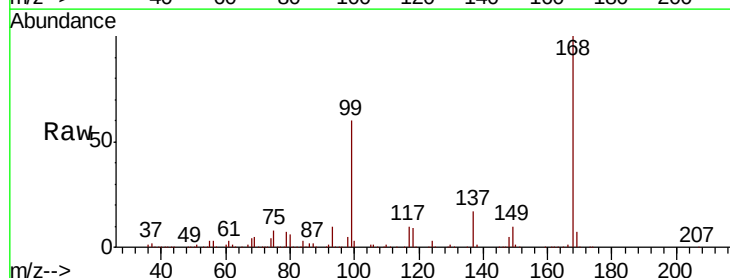
Tgt Ion: 117 Resp: 26903

Ion Ratio Lower Upper

117 100

119 4.0 76.2 114.2#

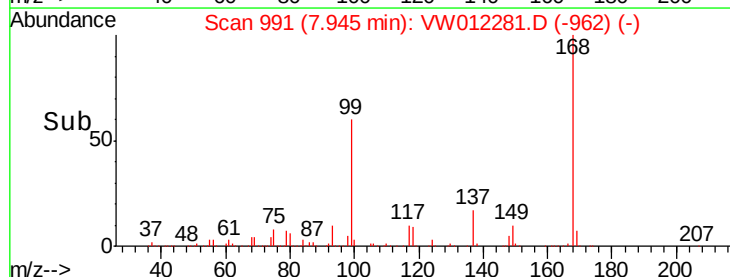
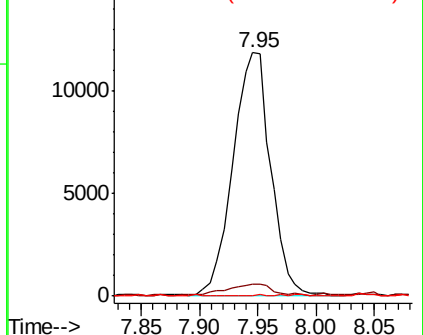
121 0.0 23.8 35.8#

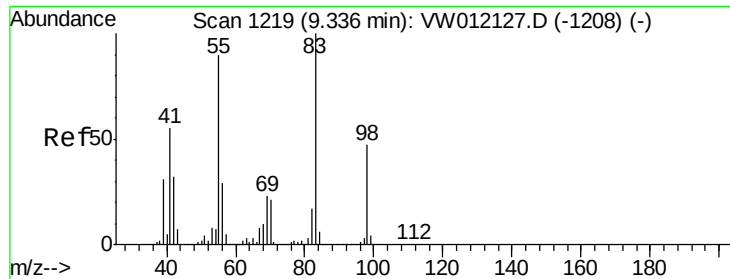


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

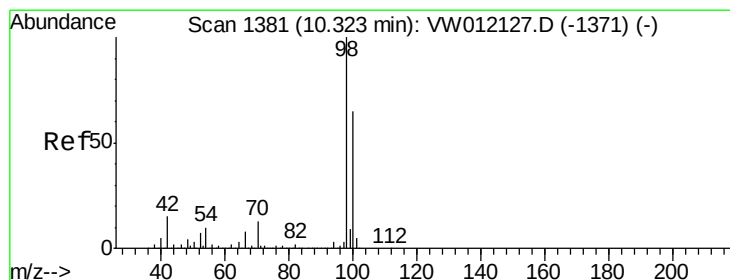
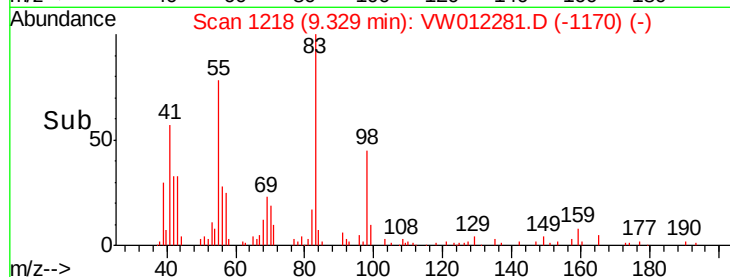
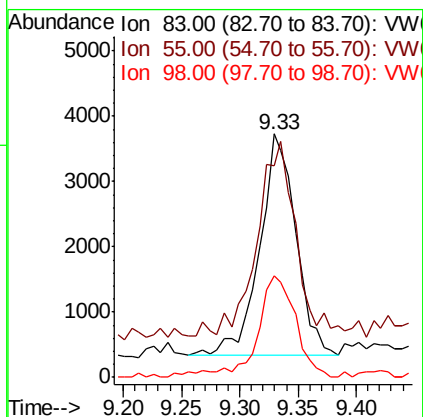
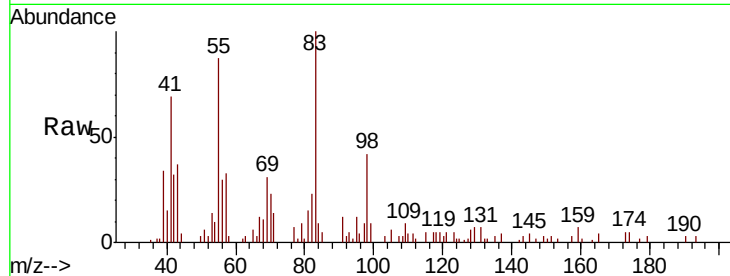




#39
Methylcyclohexane
Concen: 1.440 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

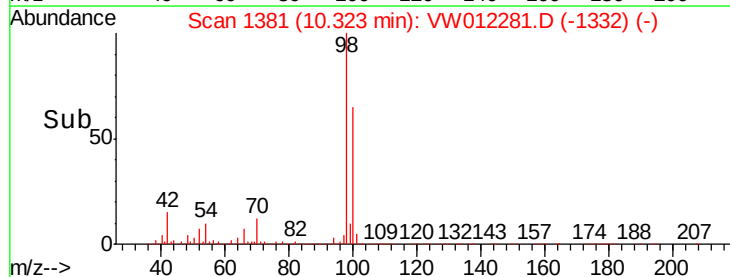
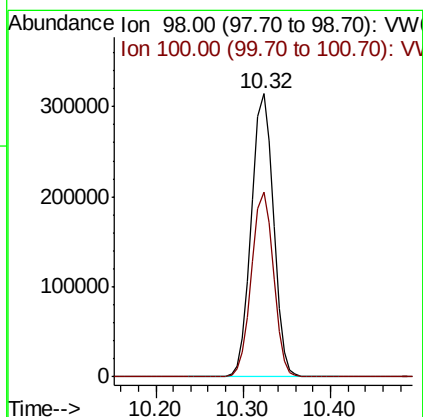
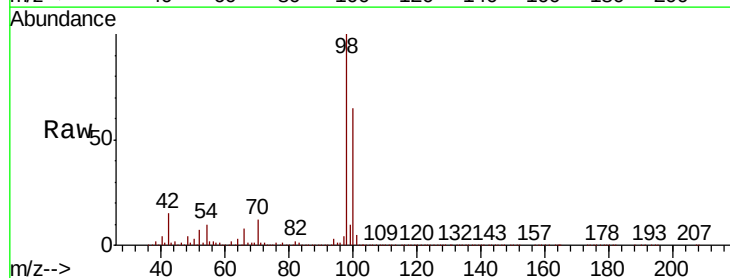
Instrument :
MSVOA_W
ClientSampleId :
BOTTOM-3

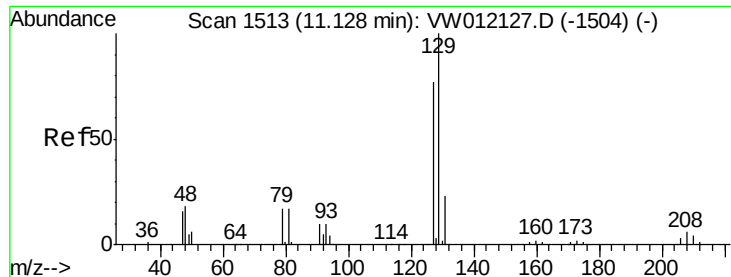
Tgt Ion: 83 Resp: 7308
Ion Ratio Lower Upper
83 100
55 76.7 71.8 107.8
98 45.8 37.8 56.8



#50
Toluene-d8
Concen: 52.120 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

Tgt Ion: 98 Resp: 551467
Ion Ratio Lower Upper
98 100
100 65.0 52.4 78.6





#60

Dibromochloromethane

Concen: 8.969 ug/l

RT: 11.08 min Scan# 1505

Delta R.T. -0.05 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

Instrument :

MSVOA_W

ClientSampled :

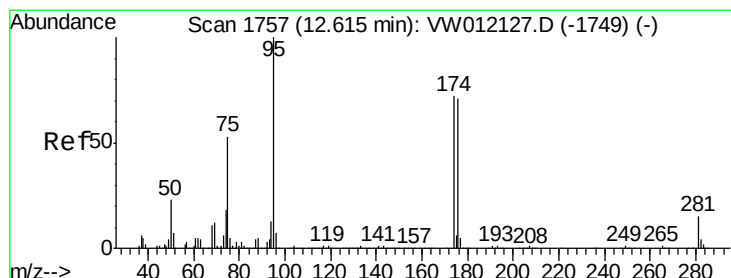
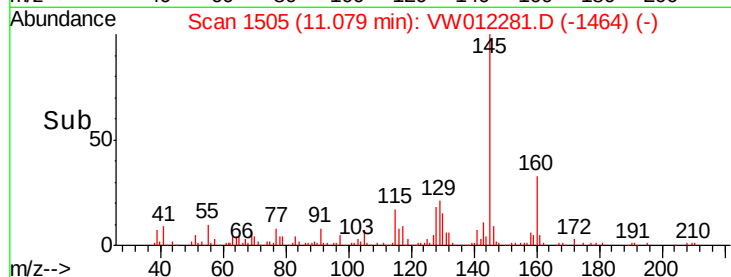
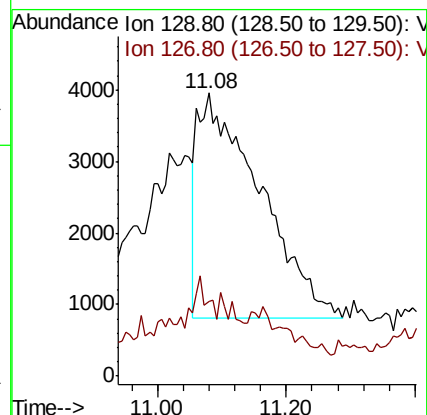
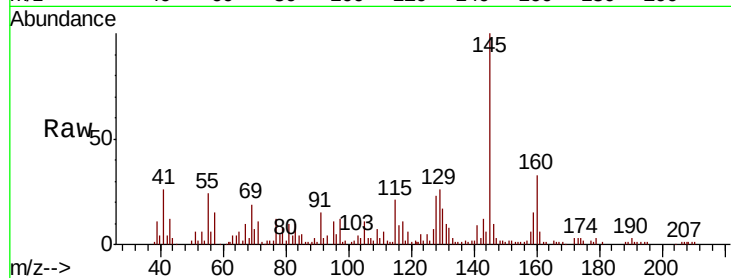
BOTTOM-3

Tgt Ion: 129 Resp: 20879

Ion Ratio Lower Upper

129 100

127 5.1 38.6 115.8#



#62

4-Bromofluorobenzene

Concen: 59.314 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

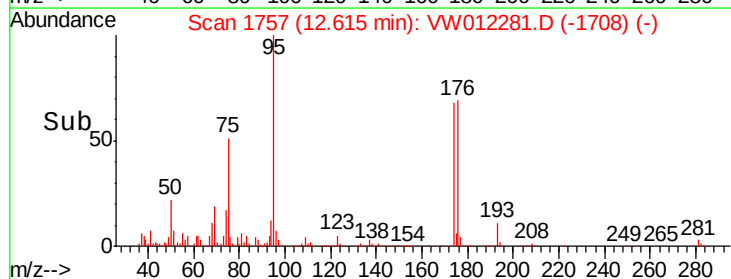
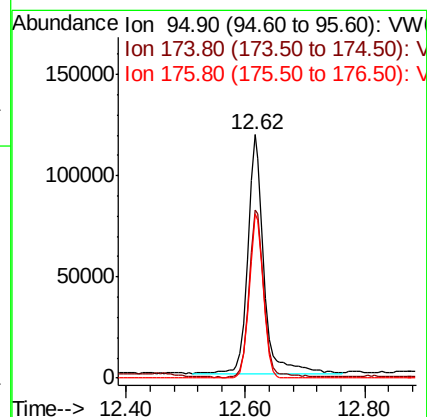
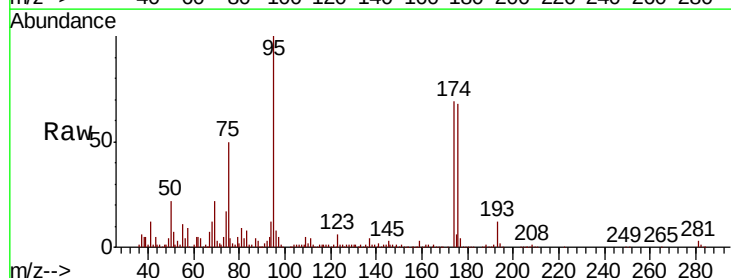
Tgt Ion: 95 Resp: 221223

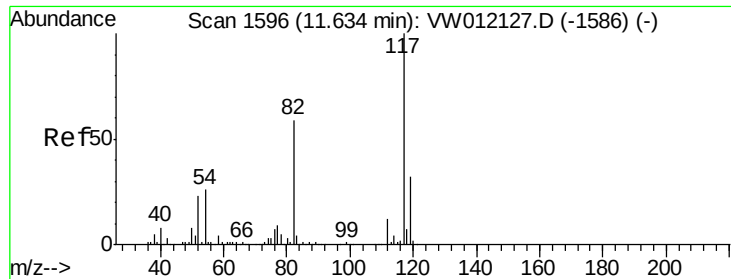
Ion Ratio Lower Upper

95 100

174 65.6 0.0 150.8

176 61.0 0.0 148.6

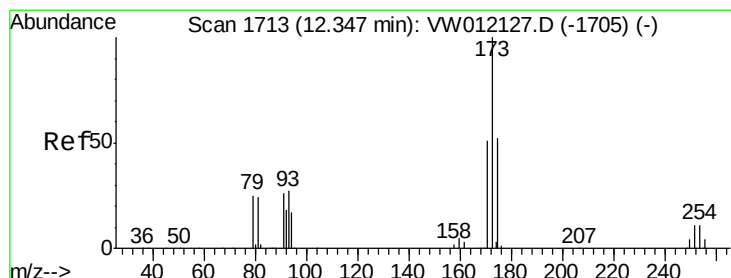
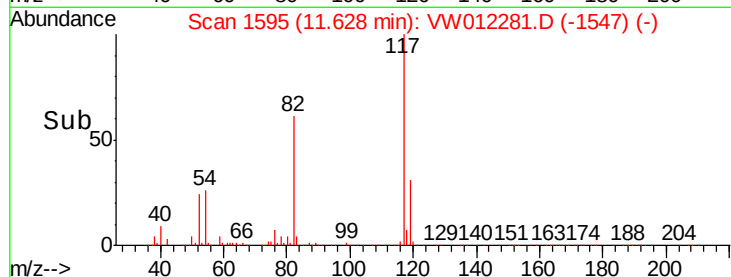
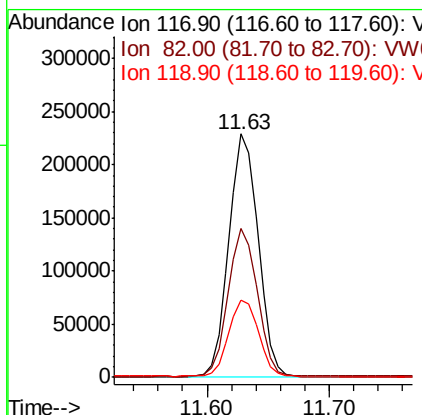
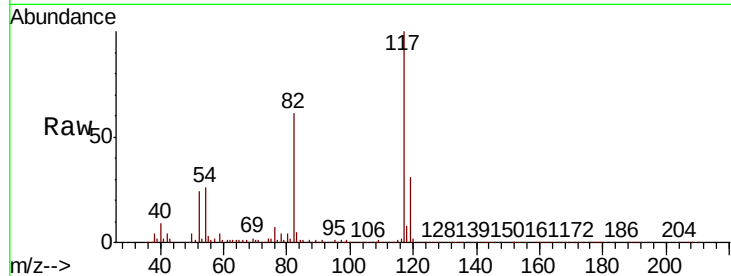




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

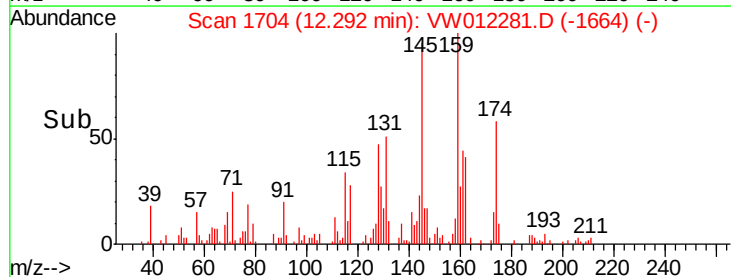
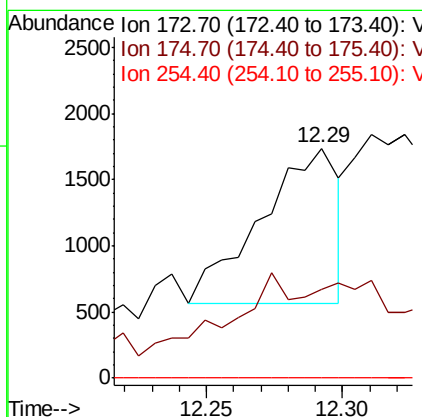
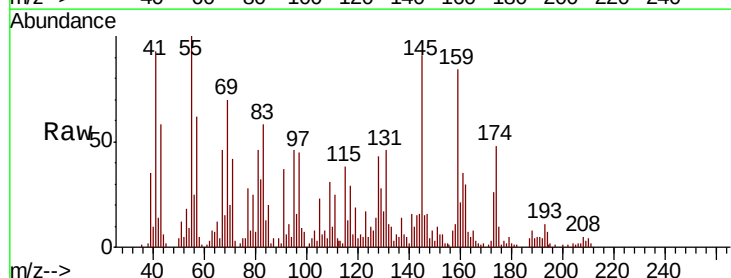
Instrument :
MSVOA_W
ClientSampleId :
BOTTOM-3

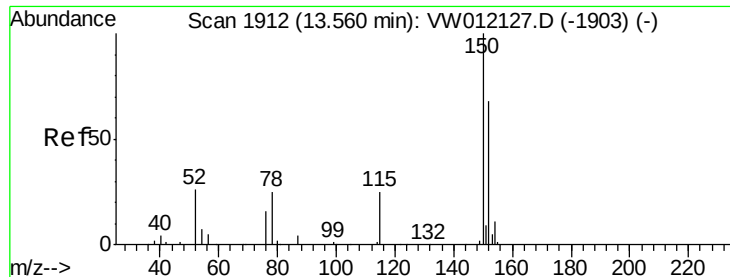
Tgt Ion:117 Resp: 378840
Ion Ratio Lower Upper
117 100
82 60.5 47.4 71.2
119 31.3 25.4 38.2



#71
Bromoform
Concen: 1.794 ug/l
RT: 12.29 min Scan# 1704
Delta R.T. -0.05 min
Lab File: VW012281.D
Acq: 29 Aug 2019 04:37

Tgt Ion:173 Resp: 2326
Ion Ratio Lower Upper
173 100
175 46.6 24.6 74.0
254 0.0 0.2 0.2#

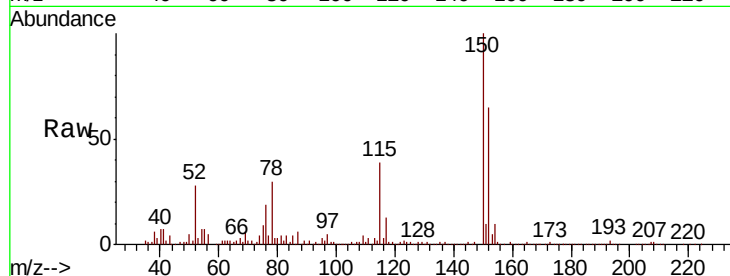




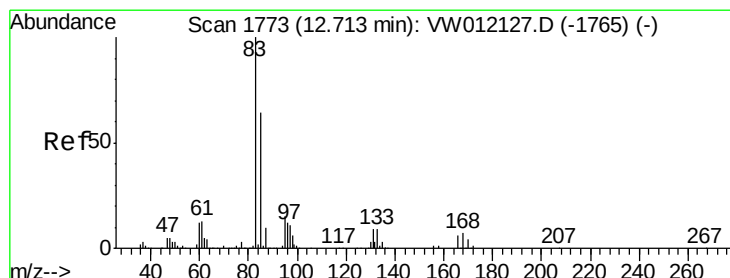
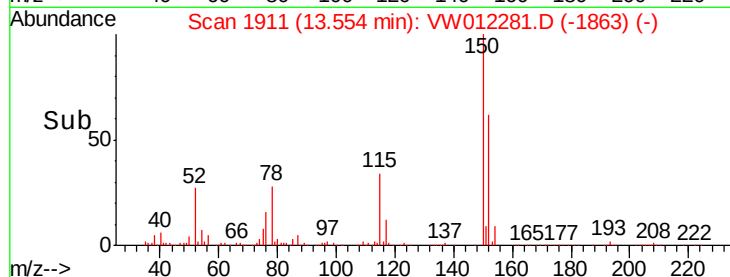
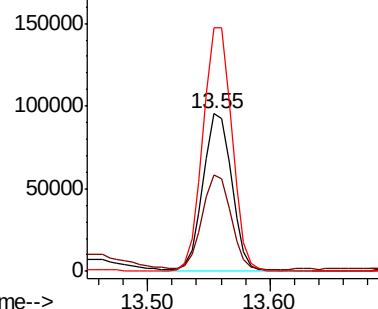
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.55 min Scan# 1911
 Delta R.T. -0.01 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

Instrument :
 MSVOA_W
 ClientSampleId :
 BOTTOM-3

Tgt Ion: 152 Resp: 153882
 Ion Ratio Lower Upper
 152 100
 115 59.5 30.1 90.3
 150 155.9 0.0 345.8

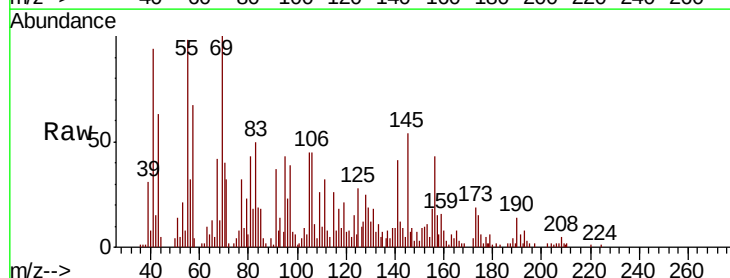


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

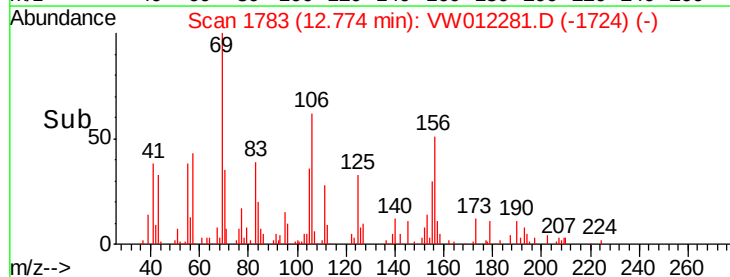
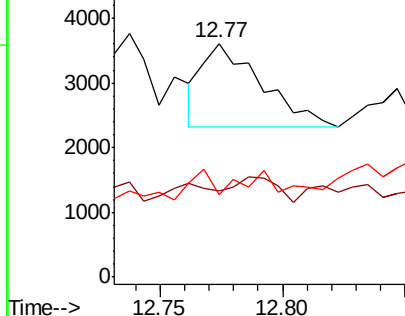


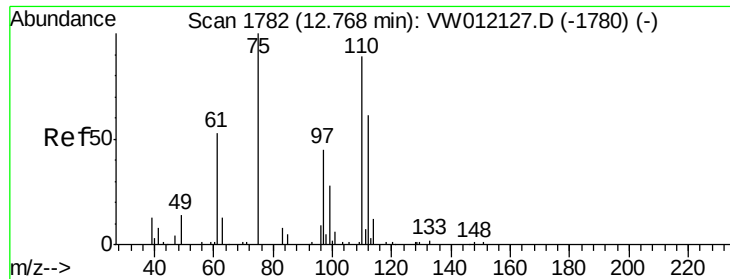
#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.037 ug/l
 RT: 12.77 min Scan# 1783
 Delta R.T. 0.06 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

Tgt Ion: 83 Resp: 2192
 Ion Ratio Lower Upper
 83 100
 131 8.5 4.9 14.7
 85 13.3 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VW
 Ion 130.80 (130.50 to 131.50): V
 Ion 84.90 (84.60 to 85.60): VW

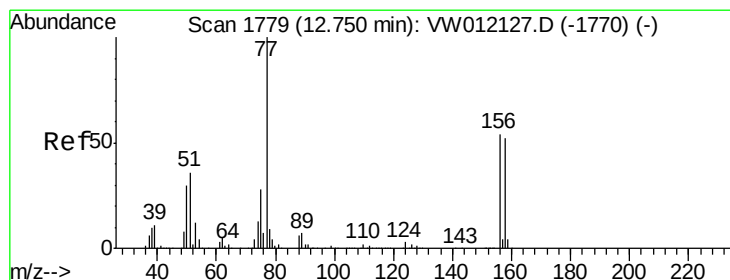
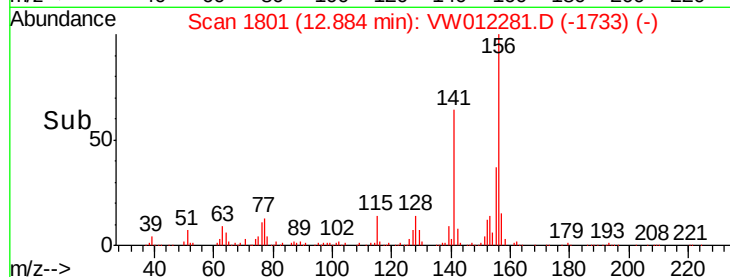
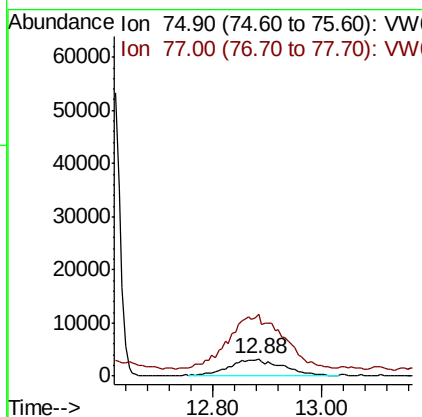
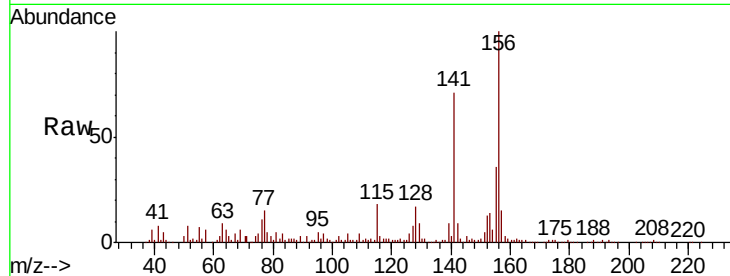




#76
 1,2,3-Trichloropropane
 Concen: 13.468 ug/l
 RT: 12.88 min Scan# 1801
 Delta R.T. 0.12 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

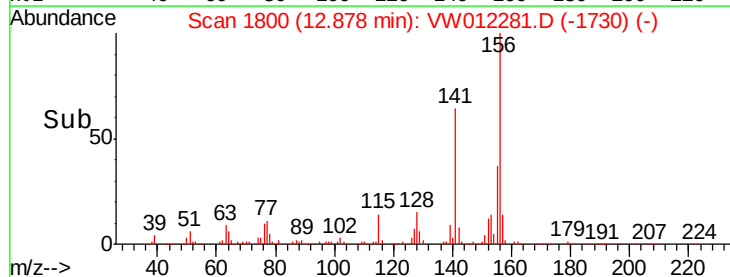
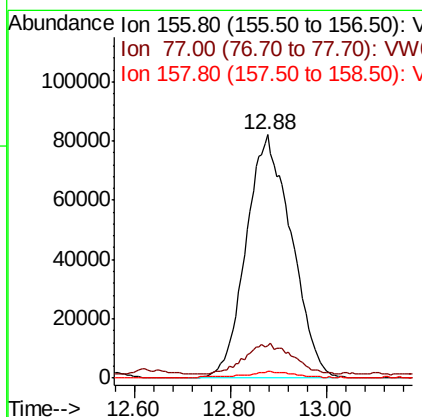
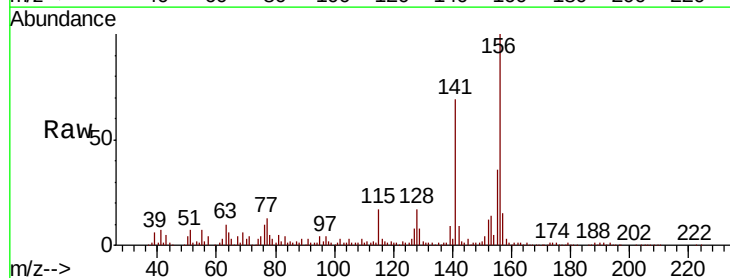
Instrument :
 MSVOA_W
 ClientSampleId :
 BOTTOM-3

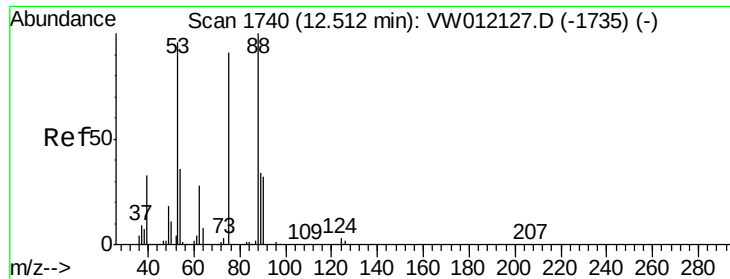
Tgt Ion: 75 Resp: 20185
 Ion Ratio Lower Upper
 75 100
 77 357.3 0.0 0.0#



#77
 Bromobenzene
 Concen: 215.431 ug/l
 RT: 12.88 min Scan# 1800
 Delta R.T. 0.13 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

Tgt Ion: 156 Resp: 537398
 Ion Ratio Lower Upper
 156 100
 77 13.4 107.3 321.8#
 158 1.2 49.0 147.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 143.768 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

Instrument :

MSVOA_W

ClientSampleId :

BOTTOM-3

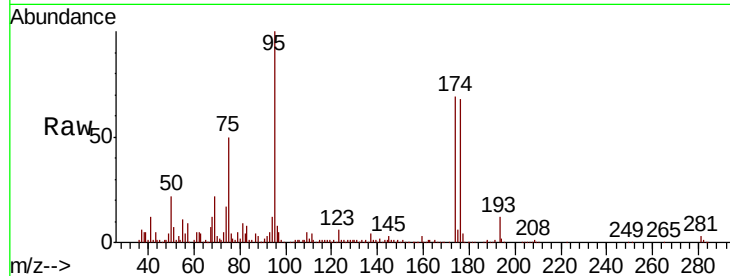
Tgt Ion: 75 Resp: 98272

Ion Ratio Lower Upper

75 100

53 5.3 89.4 134.0#

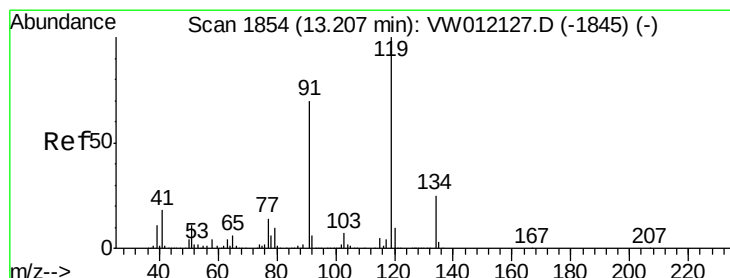
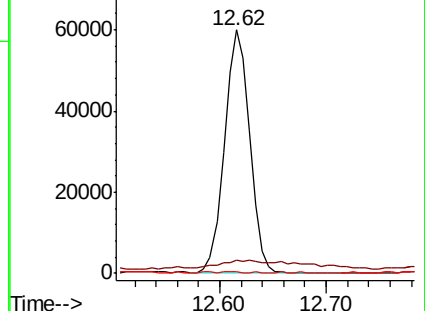
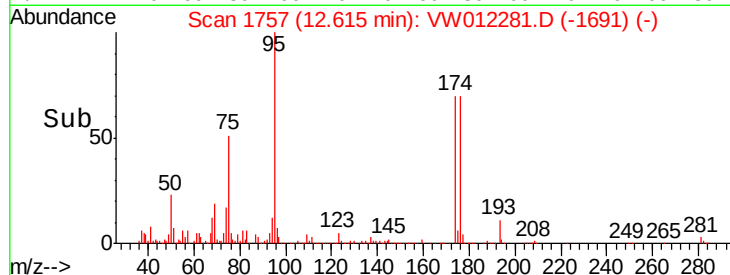
89 0.5 34.5 51.7#



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: 1.218 ug/l

RT: 13.18 min Scan# 1849

Delta R.T. -0.03 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

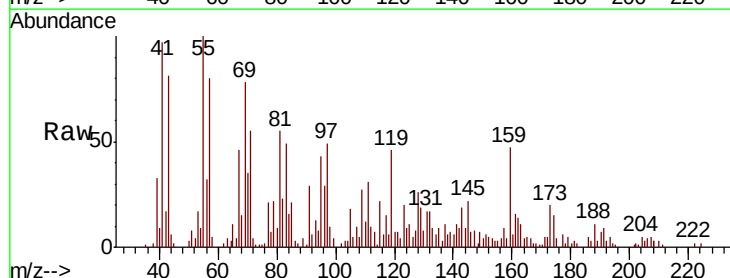
Tgt Ion: 119 Resp: 9942

Ion Ratio Lower Upper

119 100

91 11.8 34.8 104.3#

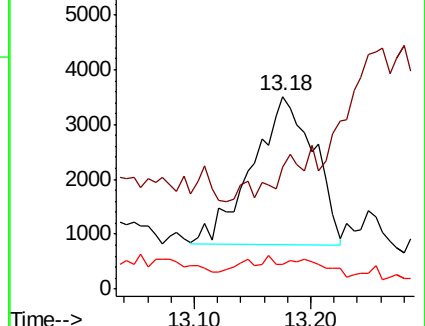
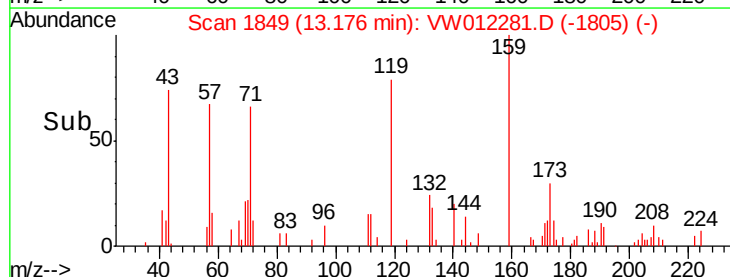
134 0.0 13.3 39.8#

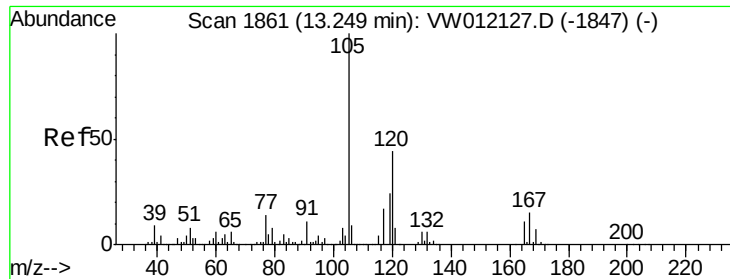


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V

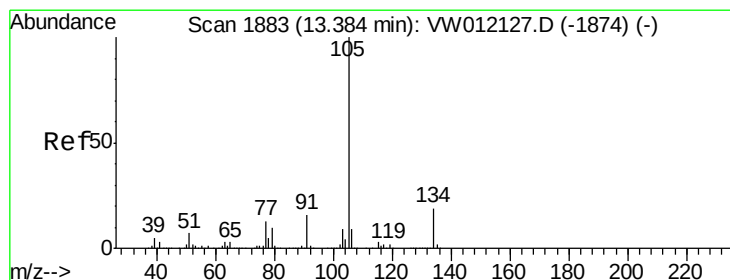
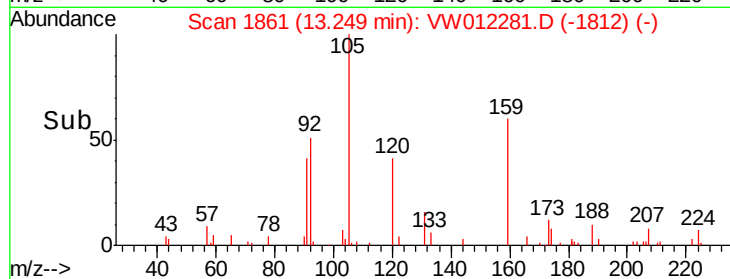
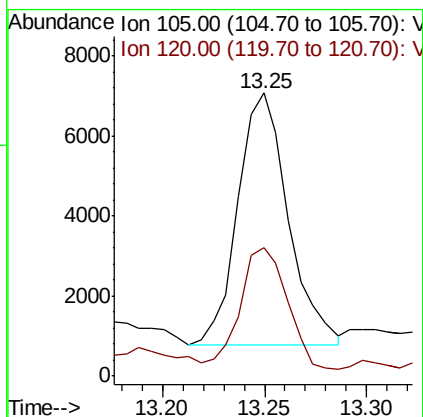
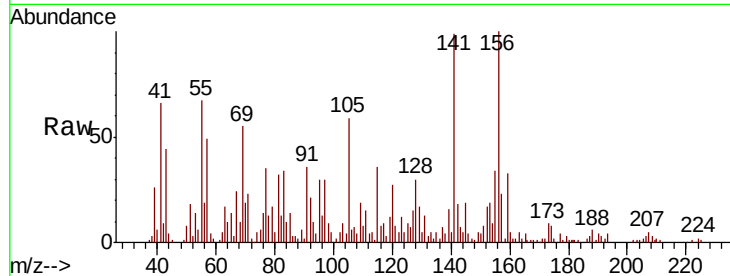




#84
 1,2,4-Trimethylbenzene
 Concen: 1.113 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

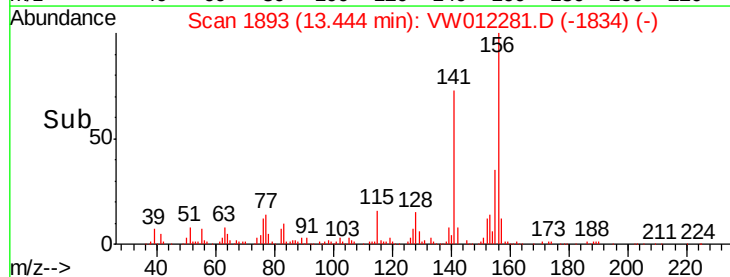
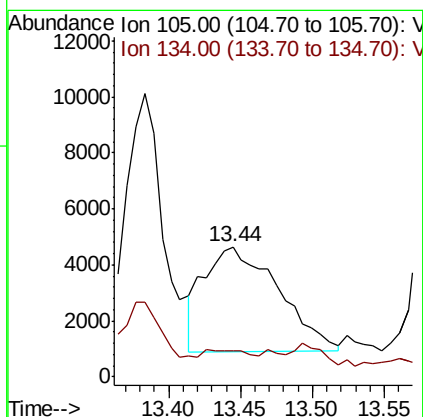
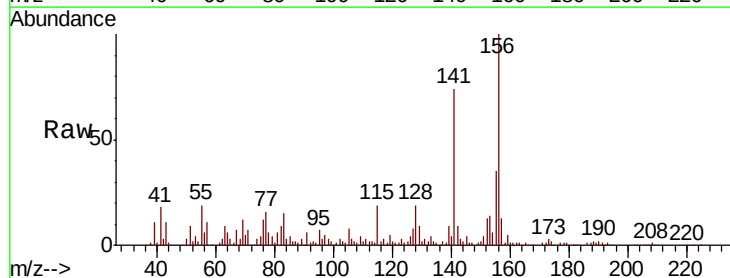
Instrument :
 MSVOA_W
 ClientSampleId :
 BOTTOM-3

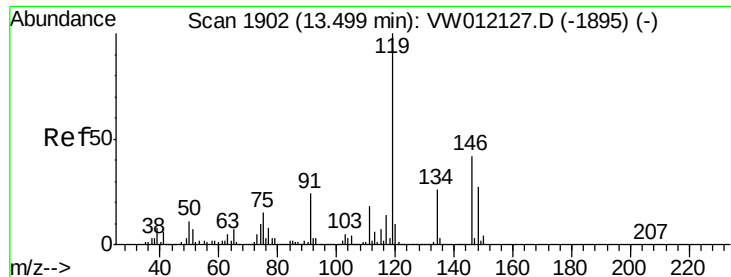
Tgt Ion:105 Resp: 10770
 Ion Ratio Lower Upper
 105 100
 120 45.2 21.9 65.7



#85
 sec-Butylbenzene
 Concen: 1.150 ug/l
 RT: 13.44 min Scan# 1893
 Delta R.T. 0.06 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

Tgt Ion:105 Resp: 13445
 Ion Ratio Lower Upper
 105 100
 134 12.7 9.8 29.4

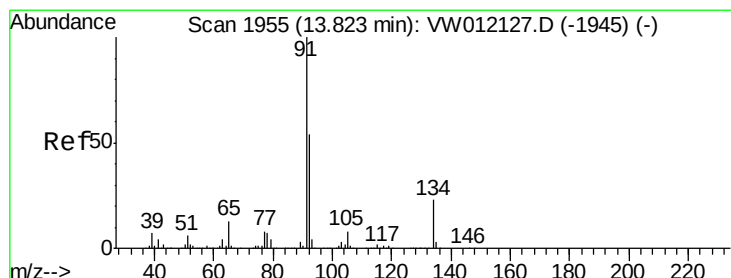
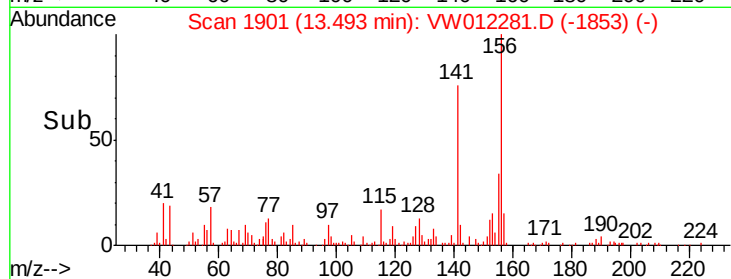
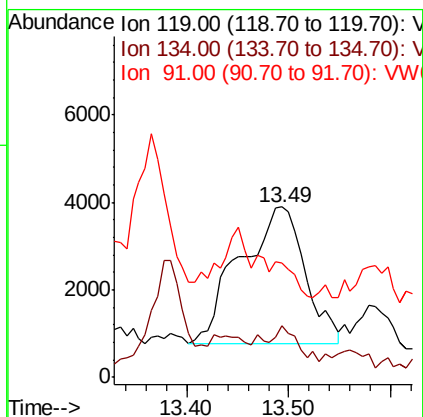
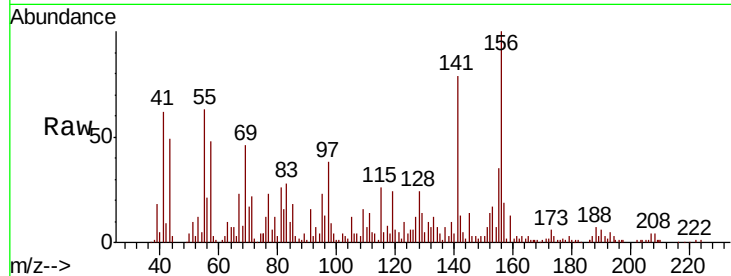




#86
 p-Isopropyltoluene
 Concen: 1.325 ug/l
 RT: 13.49 min Scan# 1901
 Delta R.T. -0.01 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

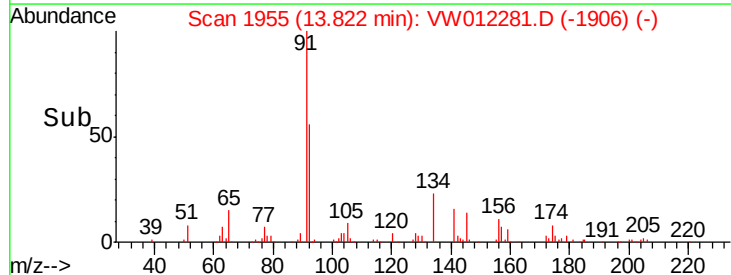
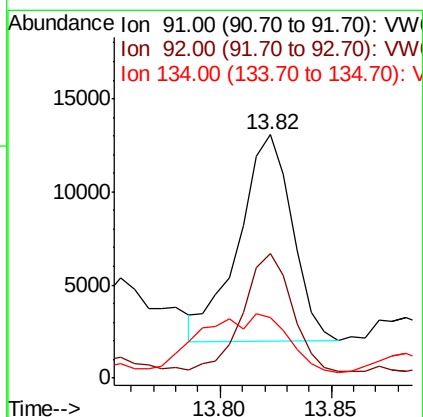
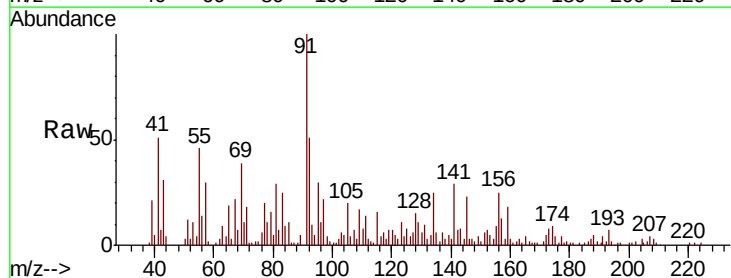
Instrument :
 MSVOA_W
 ClientSampleId :
 BOTTOM-3

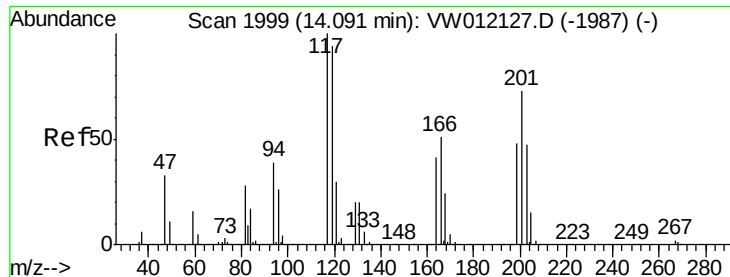
Tgt Ion: 119 Resp: 13834
 Ion Ratio Lower Upper
 119 100
 134 11.4 12.8 38.3#
 91 0.0 12.3 36.9#



#89
 n-Butylbenzene
 Concen: 1.775 ug/l
 RT: 13.82 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW012281.D
 Acq: 29 Aug 2019 04:37

Tgt Ion: 91 Resp: 18430
 Ion Ratio Lower Upper
 91 100
 92 52.5 27.1 81.2
 134 46.3 12.2 36.4#





#90

Hexachloroethane

Concen: 2.199 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

Instrument :

MSVOA_W

ClientSampled :

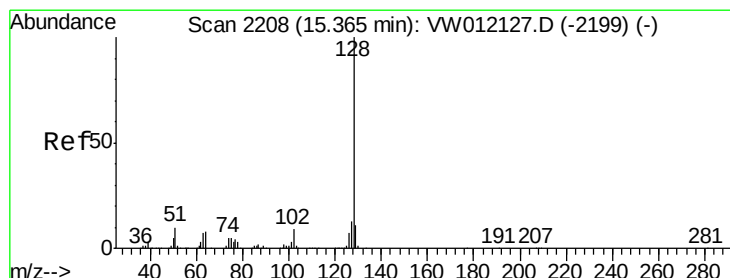
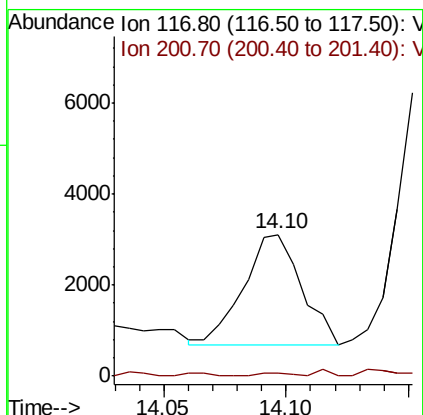
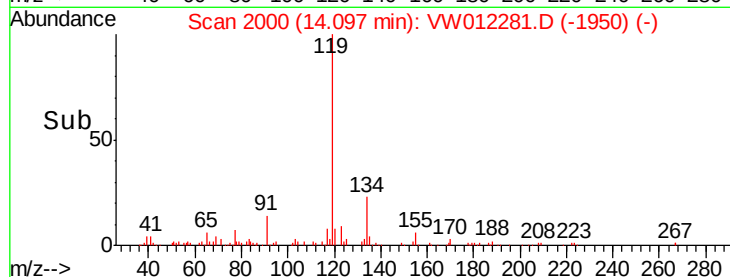
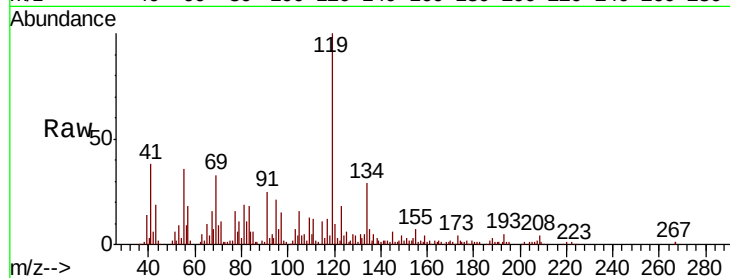
BOTTOM-3

Tgt Ion:117 Resp: 4028

Ion Ratio Lower Upper

117 100

201 1.6 38.6 115.7#



#95

Naphthalene

Concen: 5.120 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012281.D

Acq: 29 Aug 2019 04:37

Tgt Ion:128 Resp: 5076

Ion Ratio Lower Upper

128 100

127 10.6 10.7 16.1#

129 0.0 8.7 13.1#

