

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090219\
 Data File : VW012493.D
 Acq On : 02 Sep 2019 12:44
 Operator : SY/VA
 Sample : K4527-16RE
 Misc : 4.99G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-O-(1.9)RE

Quant Time: Sep 03 07:37:45 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	165070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	269113	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	159586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	33447	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	116122	59.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.36%	
35) Dibromofluoromethane	7.88	113	87299	54.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.70%	
50) Toluene-d8	10.32	98	283231	43.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.98%	
62) 4-Bromofluorobenzene	12.62	95	71214	31.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.04%	

Target Compounds

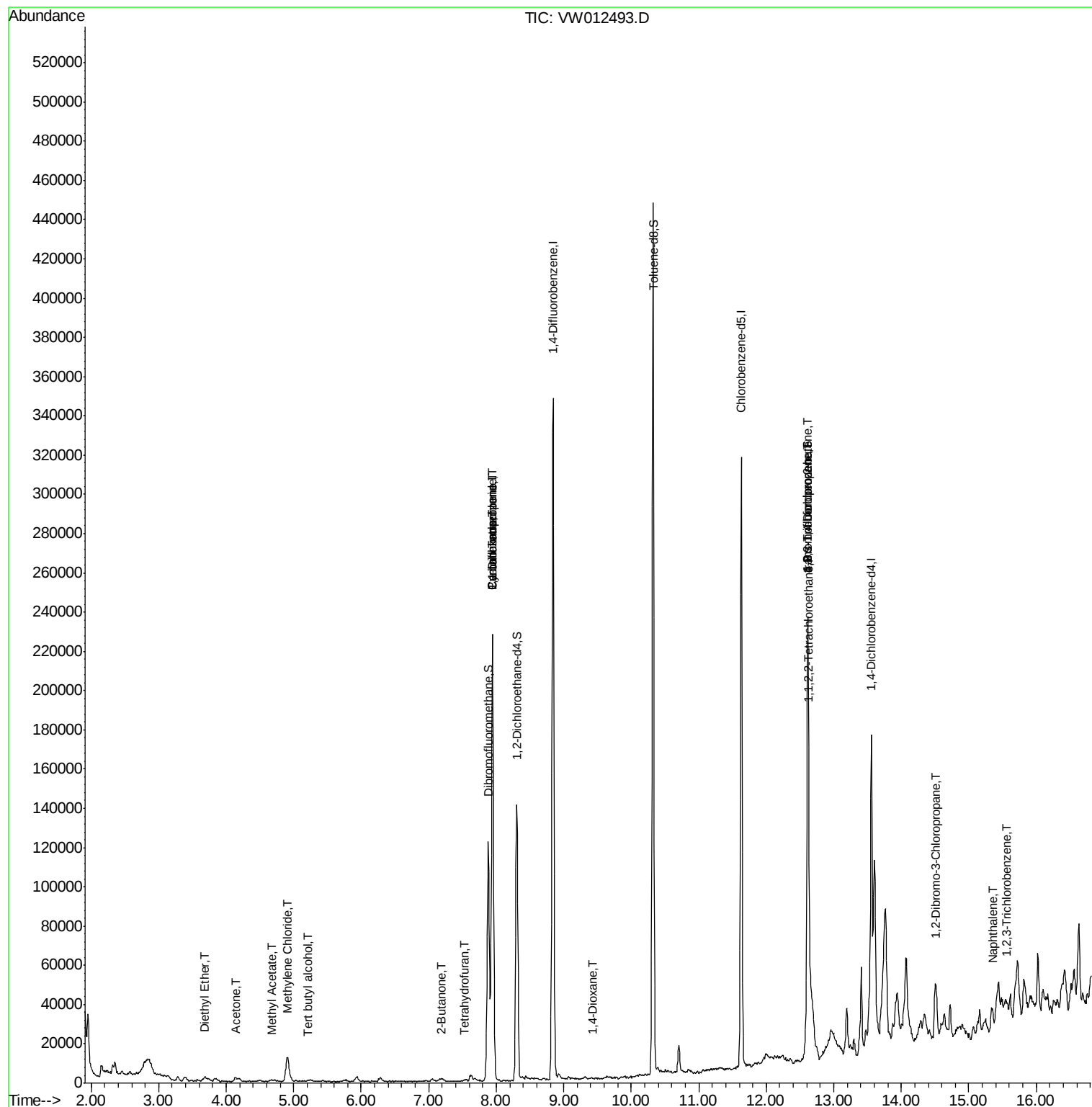
						Qvalue
8) Diethyl Ether	3.67	74	990	1.078	ug/l	72
11) Tert butyl alcohol	5.21	59	900	7.621	ug/l	96
16) Acetone	4.15	43	4205	8.383	ug/l	94
18) Methyl Acetate	4.67	43	2382	1.917	ug/l	91
20) Methylene Chloride	4.91	84	8767	4.623	ug/l	95
25) 2-Butanone	7.19	43	957	1.404	ug/l #	56
29) Tetrahydrofuran	7.54	42	851	2.081	ug/l #	51
31) Cyclohexane	7.95	56	3996	1.131	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	14207	5.109	ug/l #	52
38) Carbon Tetrachloride	7.95	117	16458	6.838	ug/l #	16
49) 1,4-Dioxane	9.43	88	23	1.652	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.63	83	13955	30.372	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	31625	97.084	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	31625	212.860	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.51	75	92	1.188	ug/l #	5
95) Naphthalene	15.35	128	417	4.623	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.56	180	931	1.660	ug/l #	58

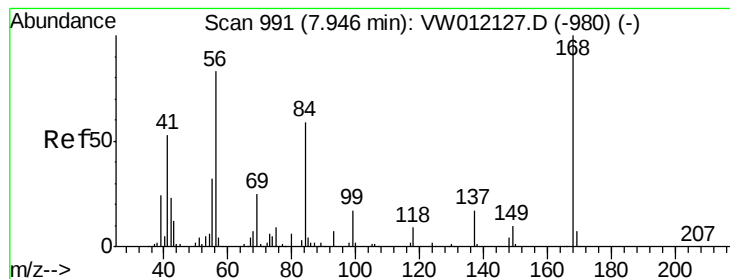
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012493.D

Acq: 02 Sep 2019 12:44

Instrument :

MSVOA_W

ClientSampleId :

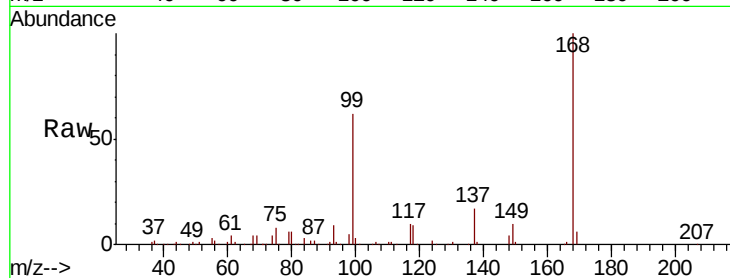
T9-12-13-O-(1.9)RE

Tgt Ion:168 Resp: 165070

Ion Ratio Lower Upper

168 100

99 62.0 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

40000

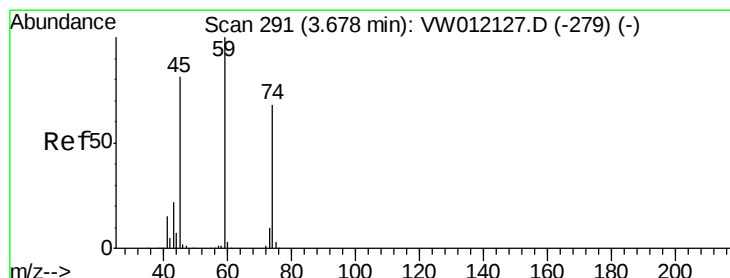
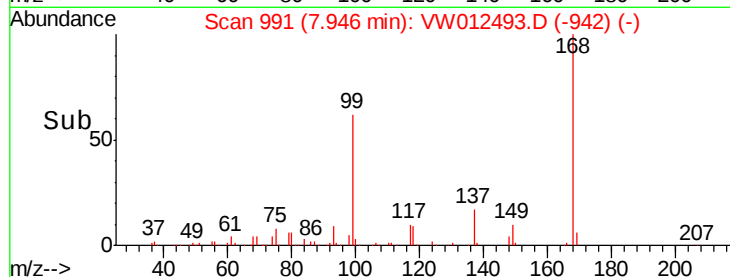
20000

0

7.90

8.00

Time-->



#8

Diethyl Ether

Concen: 1.078 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012493.D

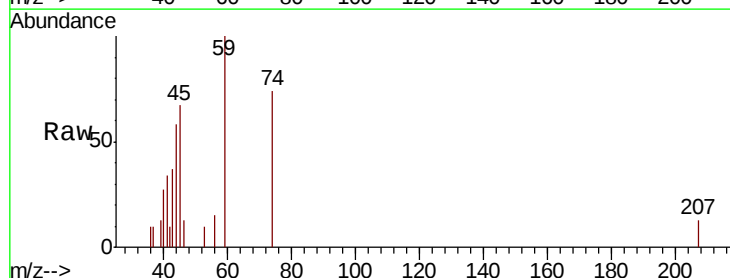
Acq: 02 Sep 2019 12:44

Tgt Ion: 74 Resp: 990

Ion Ratio Lower Upper

74 100

45 149.3 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

600

500

400

300

200

100

0

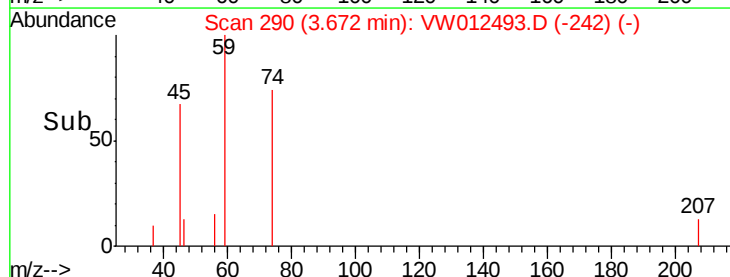
3.60

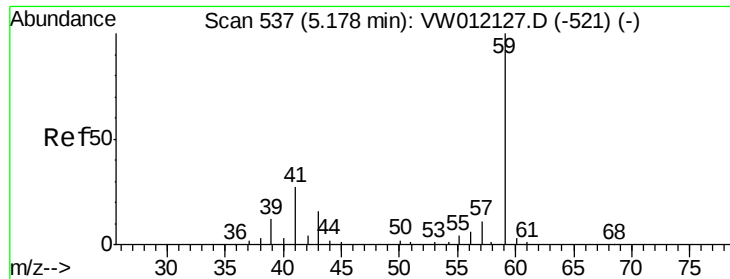
3.65

3.70

3.75

Time-->

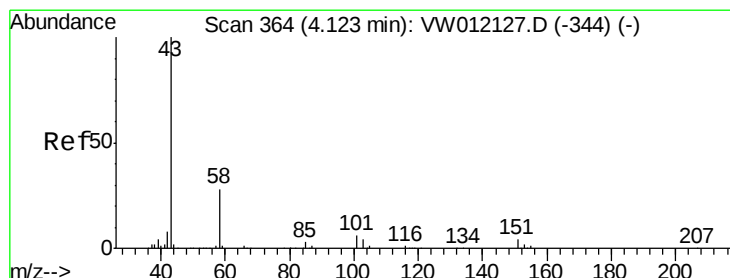
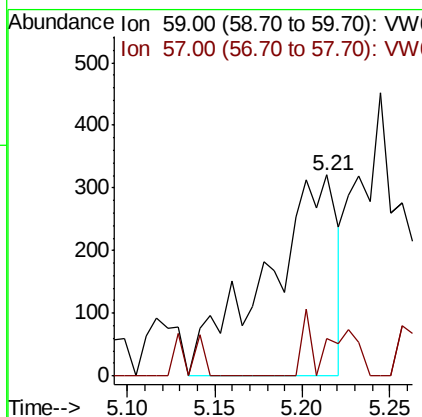
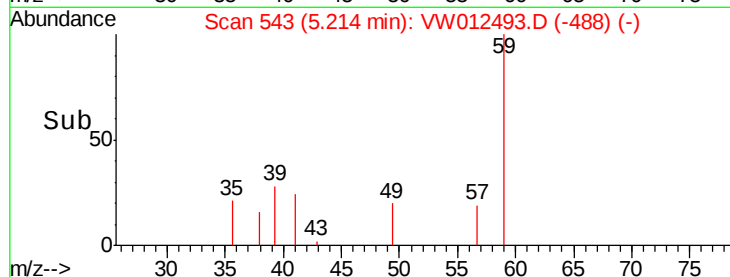
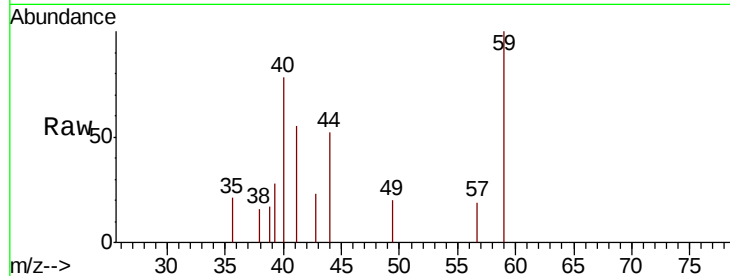




#11
Tert butyl alcohol
Concen: 7.621 ug/l
RT: 5.21 min Scan# 543
Delta R.T. 0.04 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

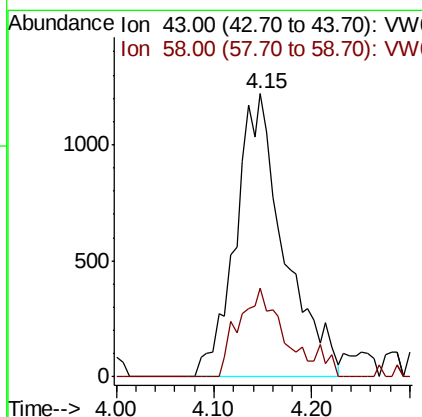
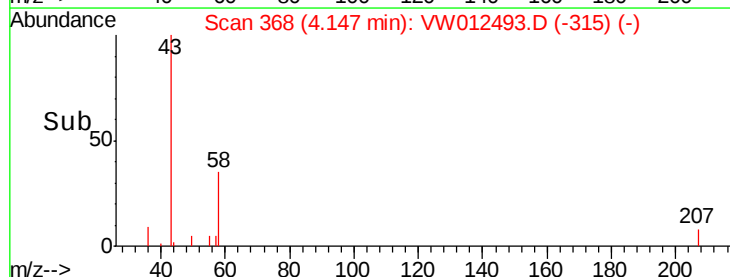
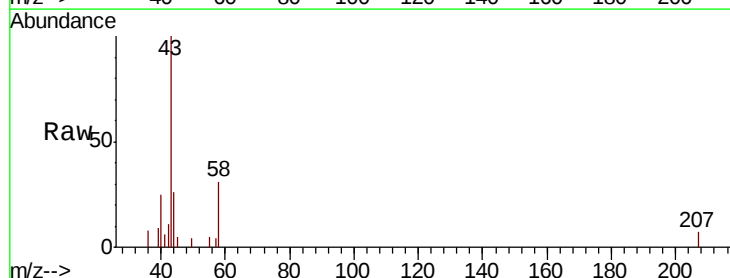
Instrument :
MSVOA_W
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T9-12-13-O-(1.9)RE

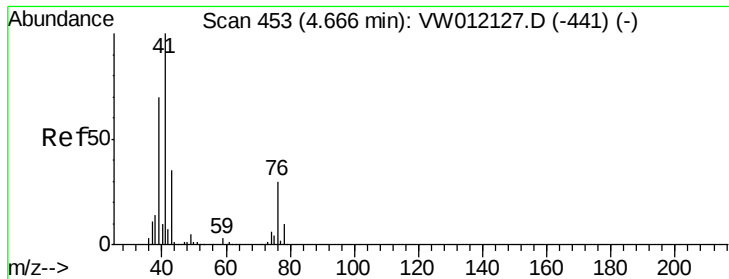
Tgt Ion: 59 Resp: 900
Ion Ratio Lower Upper
59 100
57 9.7 9.0 13.4



#16
Acetone
Concen: 8.383 ug/l
RT: 4.15 min Scan# 368
Delta R.T. 0.02 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

Tgt Ion: 43 Resp: 4205
Ion Ratio Lower Upper
43 100
58 31.3 22.4 33.6

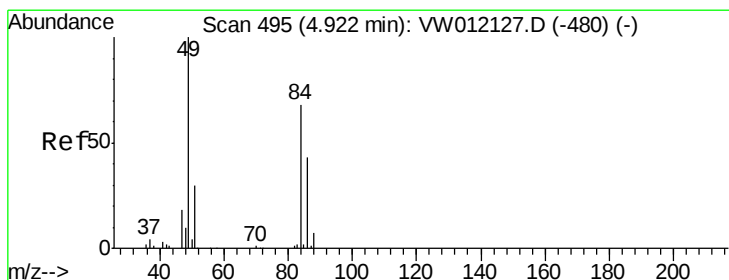
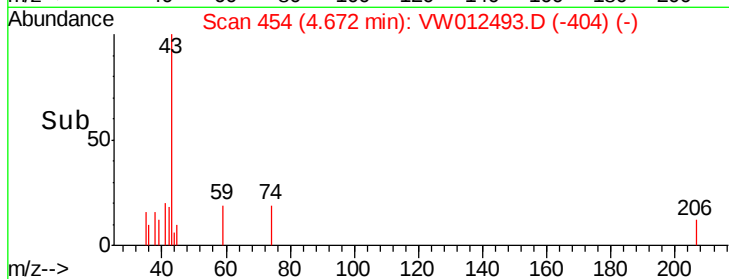
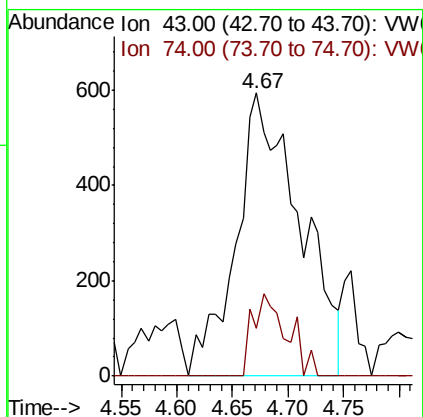
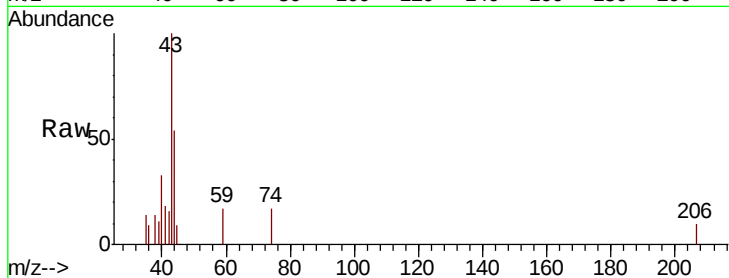




#18
Methyl Acetate
Concen: 1.917 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

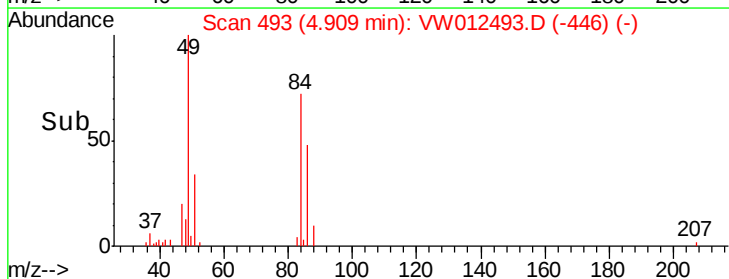
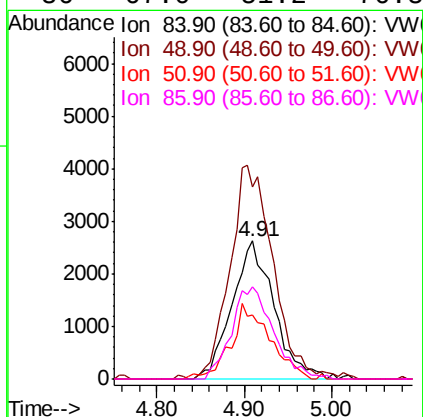
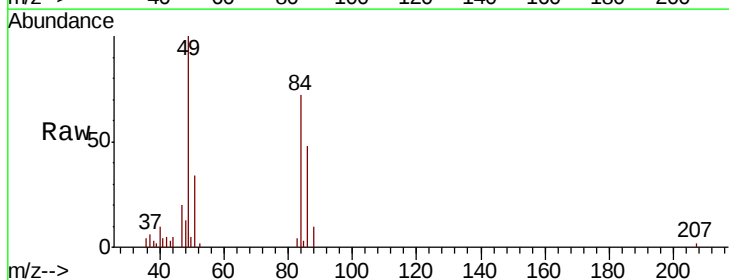
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)RE

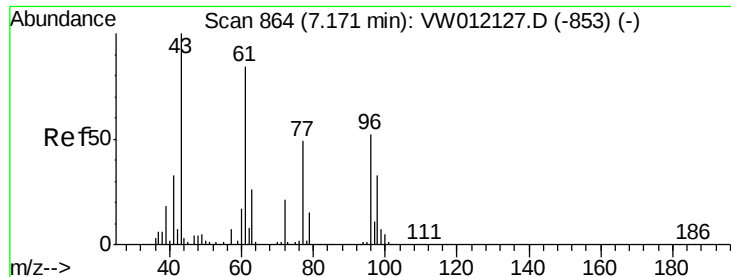
Tgt Ion: 43 Resp: 2382
Ion Ratio Lower Upper
43 100
74 15.7 15.7 23.5



#20
Methylene Chloride
Concen: 4.623 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

Tgt Ion: 84 Resp: 8767
Ion Ratio Lower Upper
84 100
49 139.8 117.8 176.8
51 46.9 35.6 53.4
86 67.0 51.2 76.8

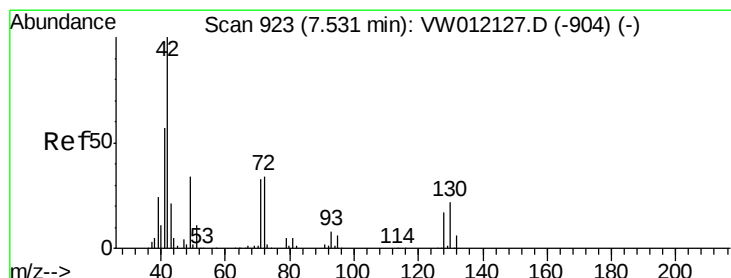
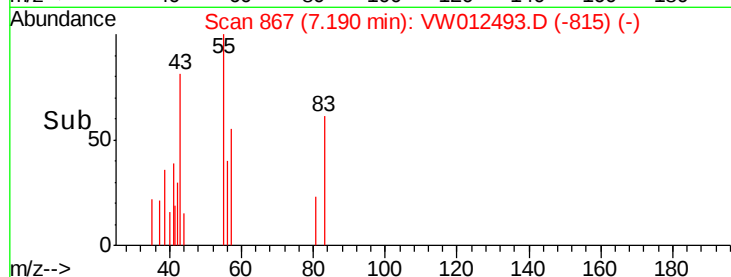
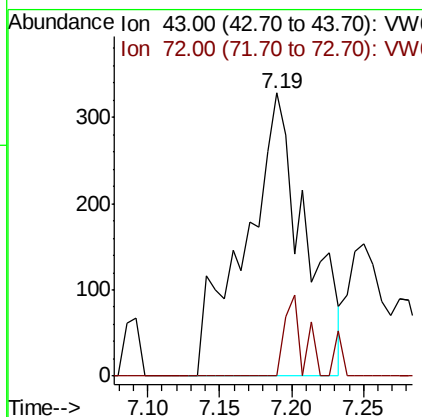
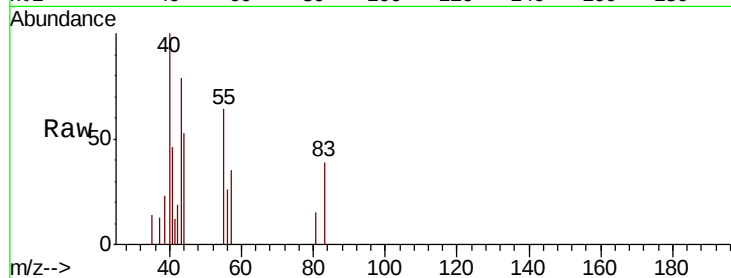




#25
2-Butanone
Concen: 1.404 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.02 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

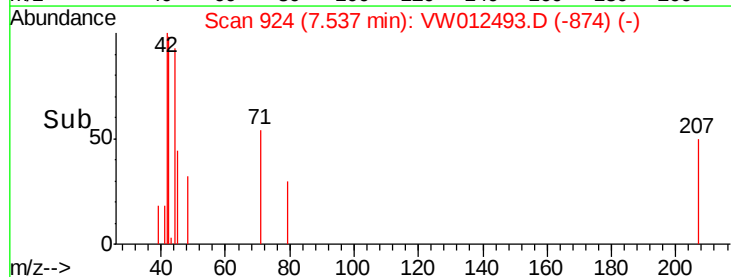
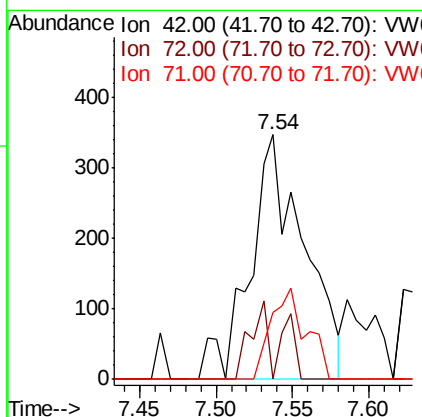
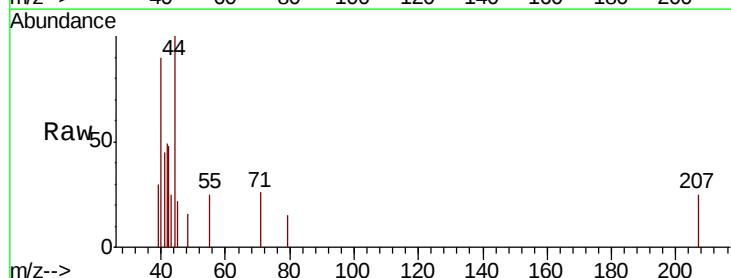
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)RE

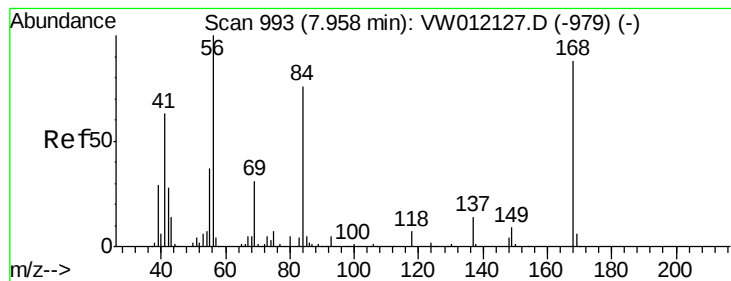
Tgt Ion: 43 Resp: 957
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#



#29
Tetrahydrofuran
Concen: 2.081 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

Tgt Ion: 42 Resp: 851
Ion Ratio Lower Upper
42 100
72 10.0 27.3 40.9#
71 0.0 25.5 38.3#





#31

Cyclohexane

Concen: 1.131 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012493.D

Acq: 02 Sep 2019 12:44

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)RE

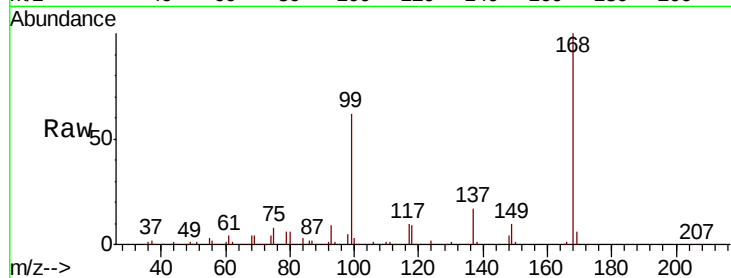
Tgt Ion: 56 Resp: 3996

Ion Ratio Lower Upper

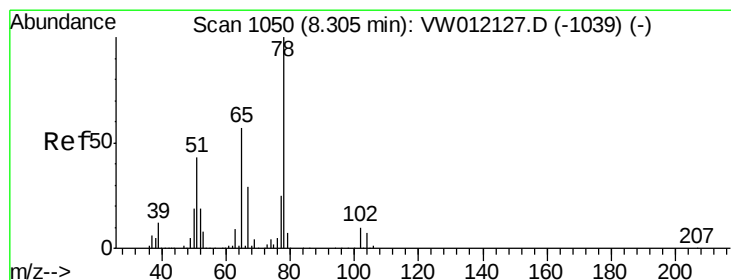
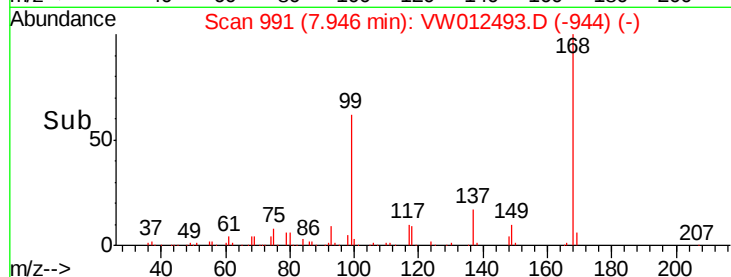
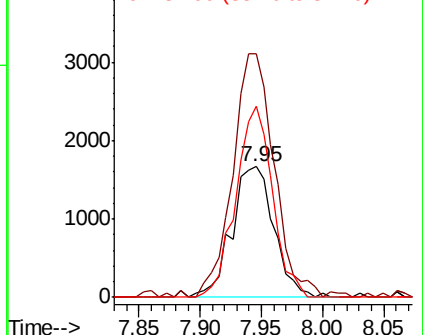
56 100

69 186.0 24.9 37.3#

84 146.3 60.6 90.8#



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



#33

1,2-Dichloroethane-d4

Concen: 59.177 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012493.D

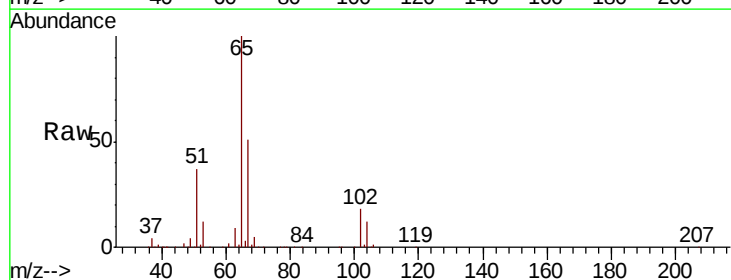
Acq: 02 Sep 2019 12:44

Tgt Ion: 65 Resp: 116122

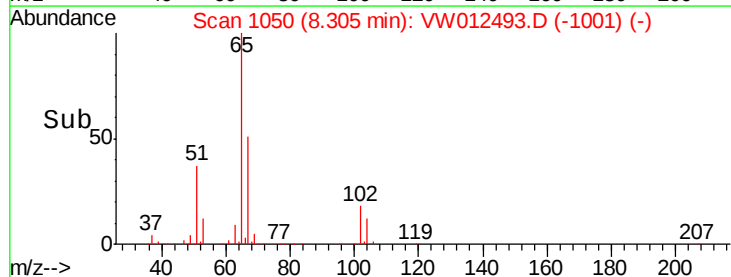
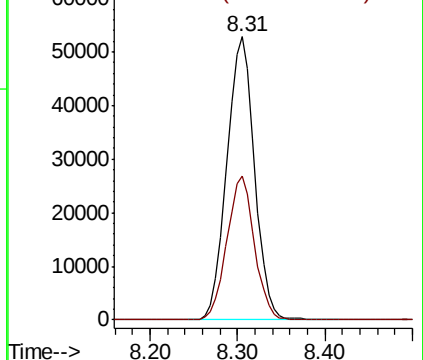
Ion Ratio Lower Upper

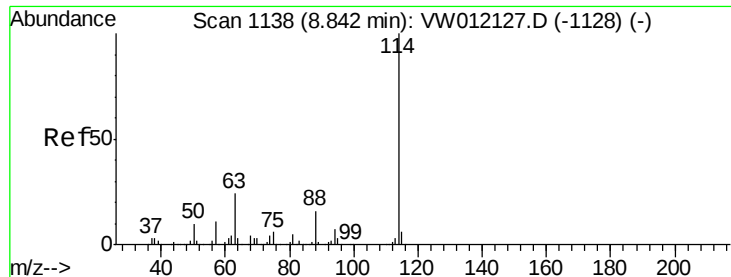
65 100

67 50.7 0.0 102.6



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

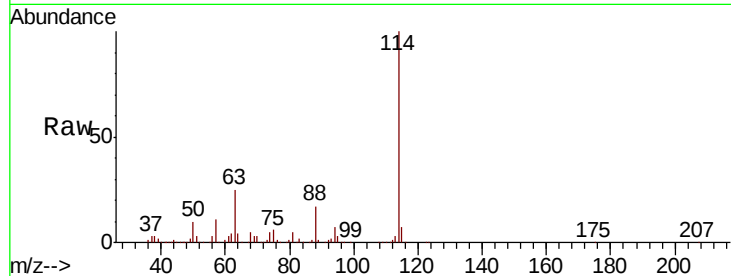




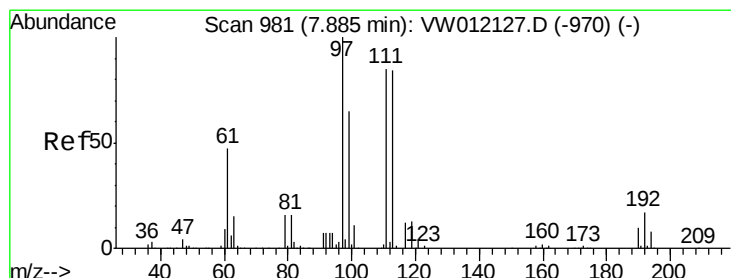
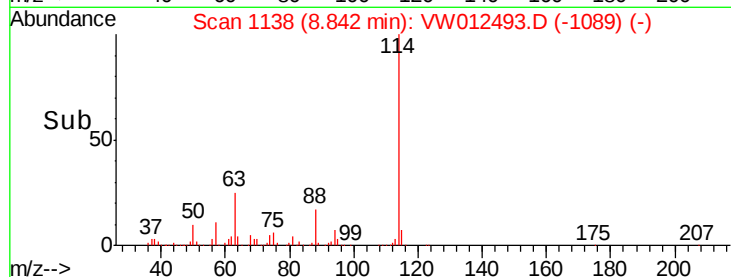
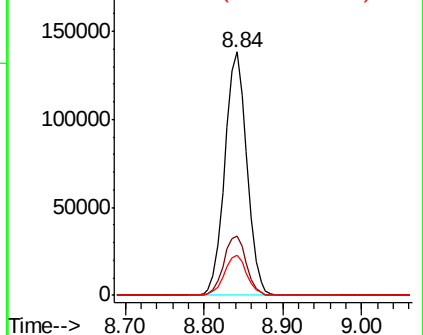
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012493.D
 Acq: 02 Sep 2019 12:44

Instrument :
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Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	48.6
88	16.6	0.0	32.2

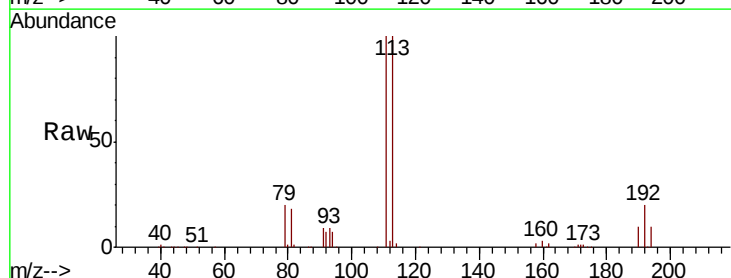


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

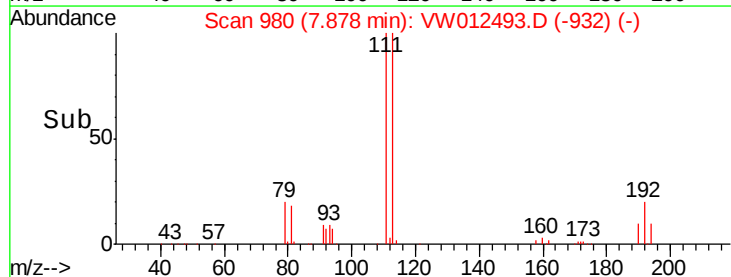
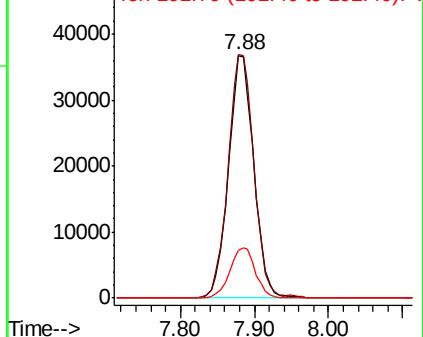


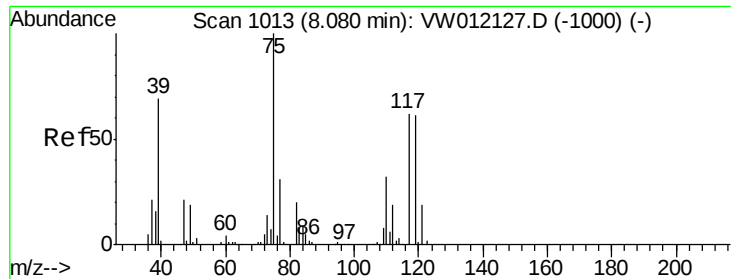
#35
 Dibromofluoromethane
 Concen: 54.346 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012493.D
 Acq: 02 Sep 2019 12:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.7	124.1
192	20.8	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

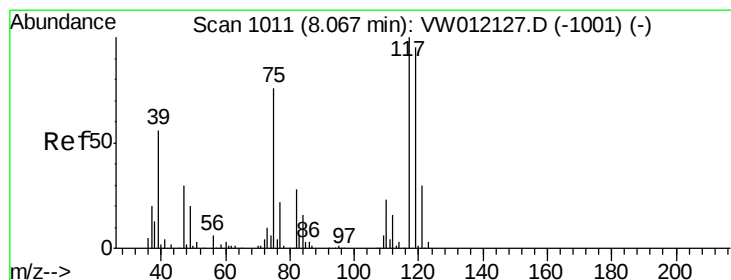
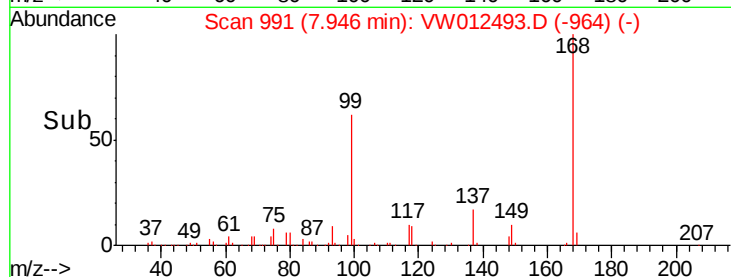
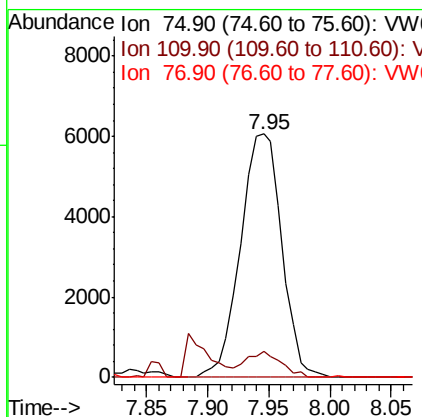
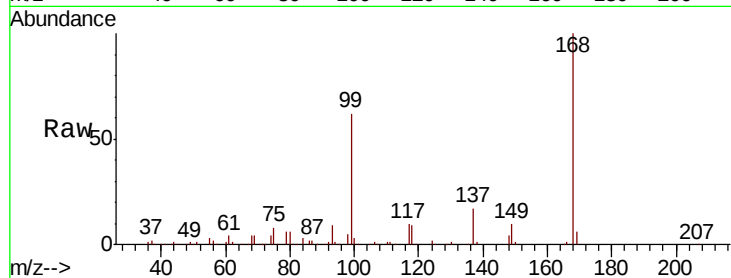




#36
 1,1-Dichloropropene
 Concen: 5.109 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012493.D
 Acq: 02 Sep 2019 12:44

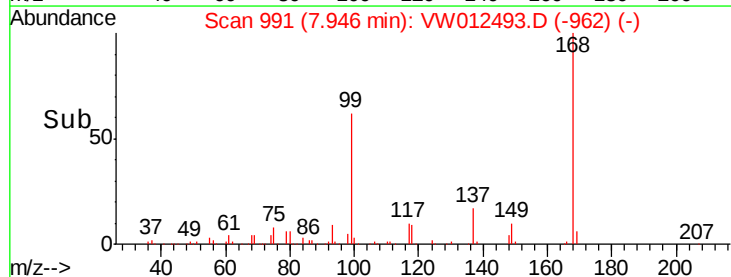
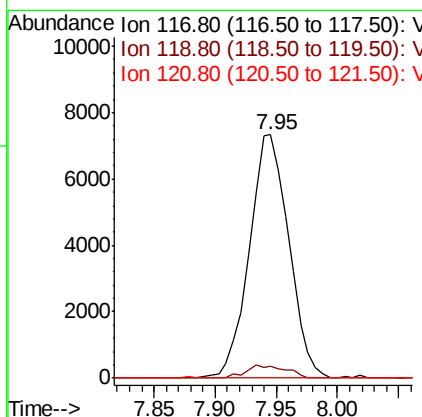
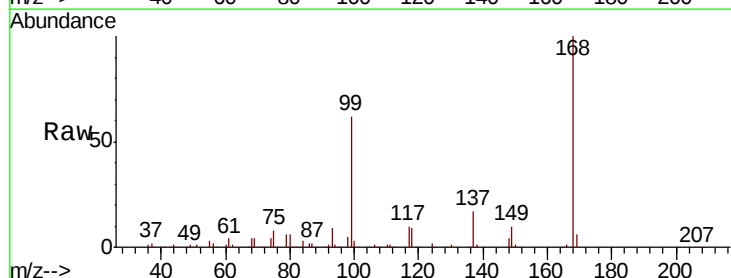
Instrument :
 MSVOA_W
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 T9-12-13-O-(1.9)RE

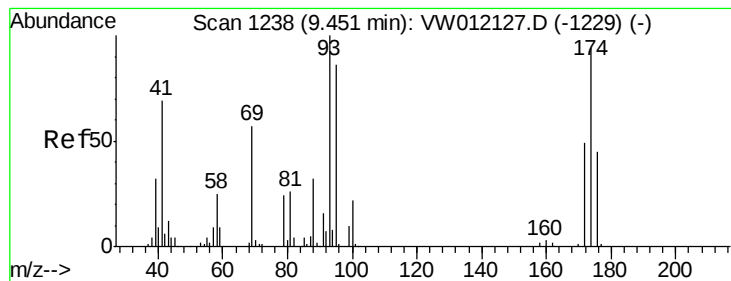
Tgt Ion: 75 Resp: 14207
 Ion Ratio Lower Upper
 75 100
 110 9.1 15.6 46.8#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.838 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012493.D
 Acq: 02 Sep 2019 12:44

Tgt Ion: 117 Resp: 16458
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.2 114.2#
 121 0.0 23.8 35.8#





#49

1,4-Dioxane

Concen: 1.652 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.02 min

Lab File: VW012493.D

Acq: 02 Sep 2019 12:44

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)RE

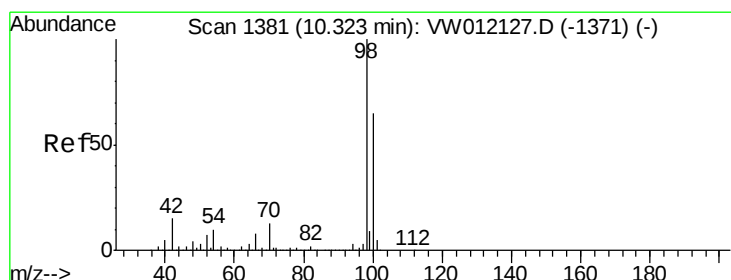
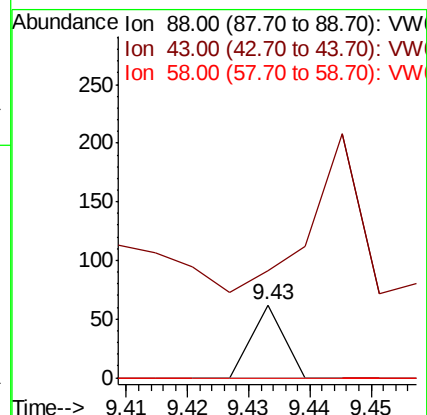
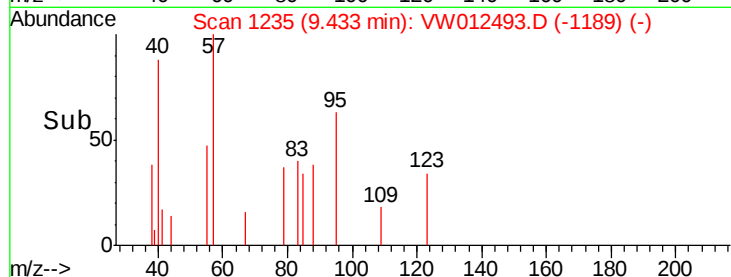
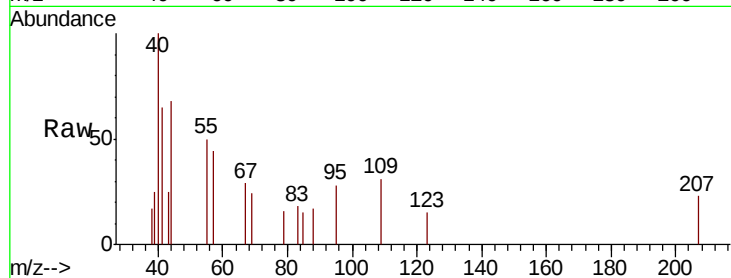
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 360.9 32.9 49.3#

58 0.0 71.0 106.4#



#50

Toluene-d8

Concen: 43.485 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012493.D

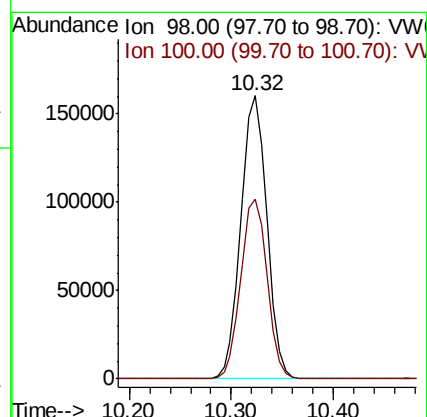
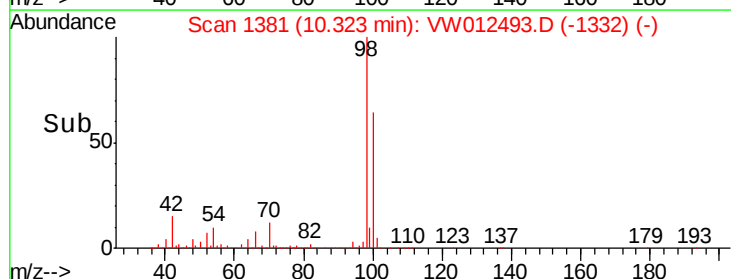
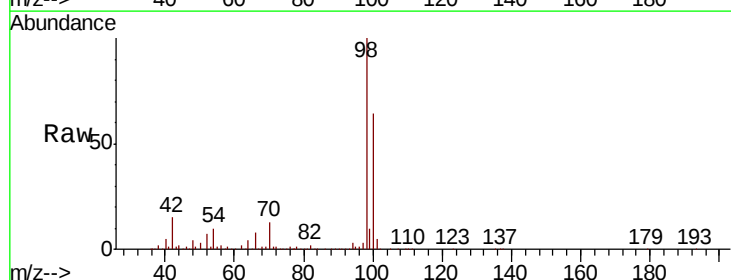
Acq: 02 Sep 2019 12:44

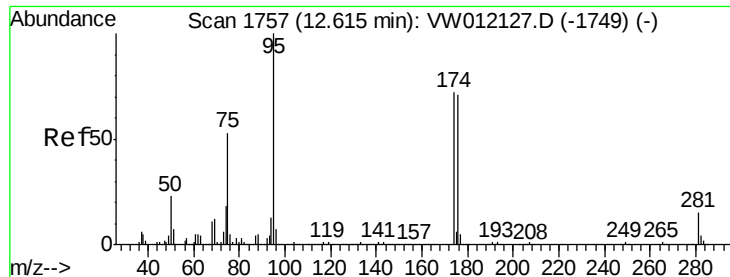
Tgt Ion: 98 Resp: 283231

Ion Ratio Lower Upper

98 100

100 64.4 52.4 78.6

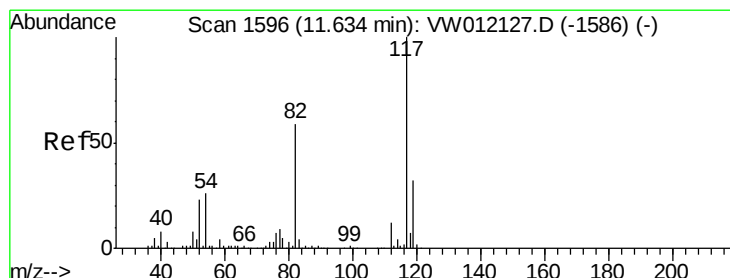
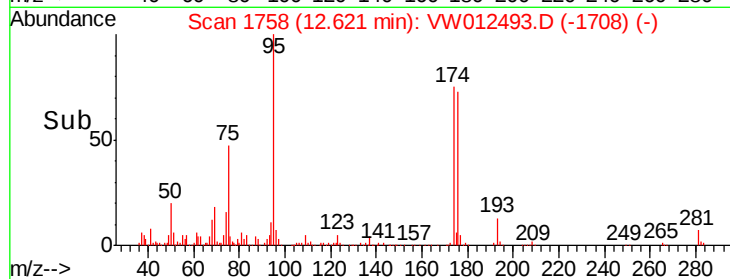
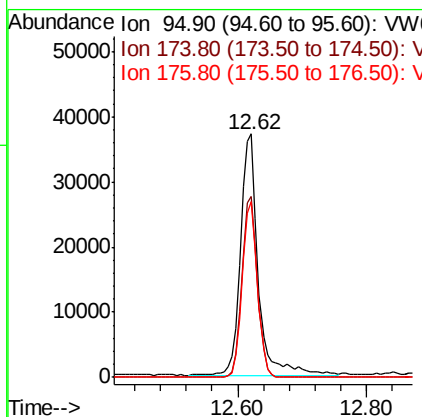
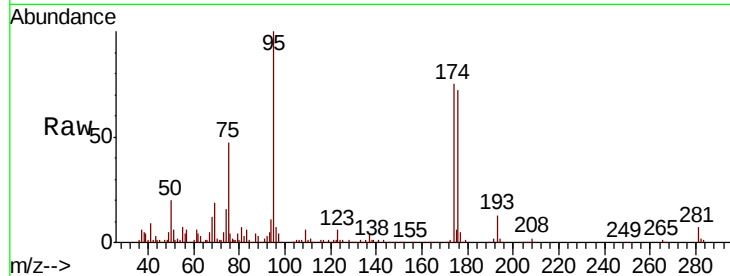




#62
4-Bromofluorobenzene
Concen: 31.018 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

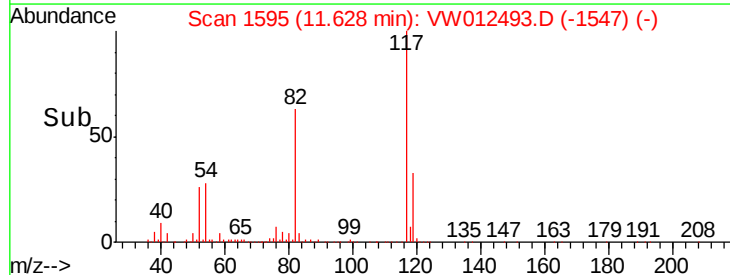
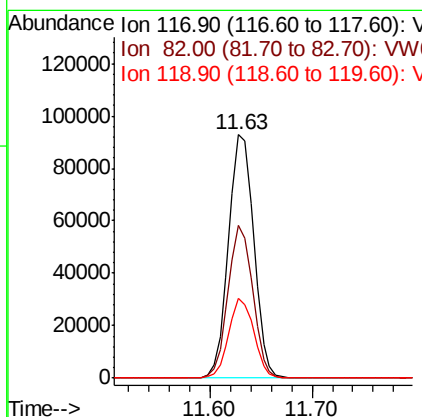
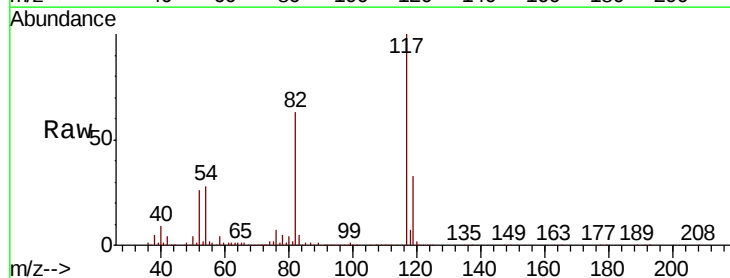
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)RE

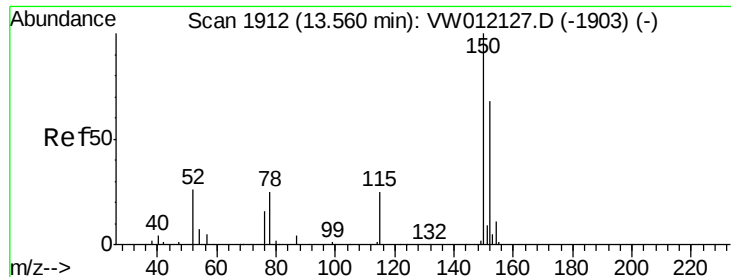
Tgt Ion: 95 Resp: 71214
Ion Ratio Lower Upper
95 100
174 64.1 0.0 150.8
176 62.0 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

Tgt Ion: 117 Resp: 159586
Ion Ratio Lower Upper
117 100
82 62.6 47.4 71.2
119 32.5 25.4 38.2



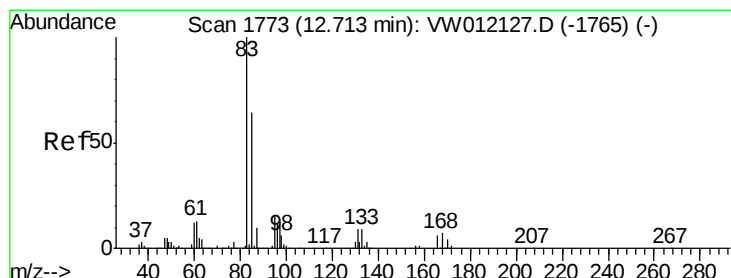
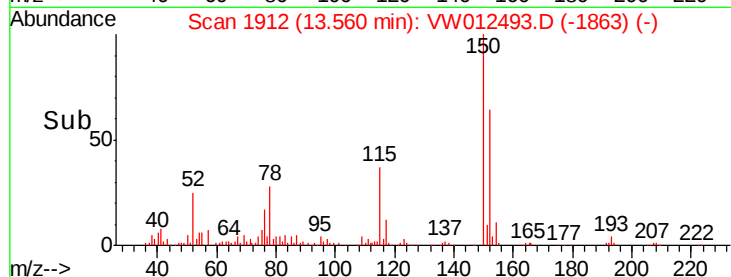
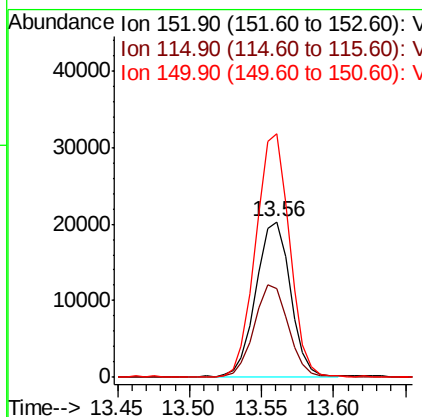
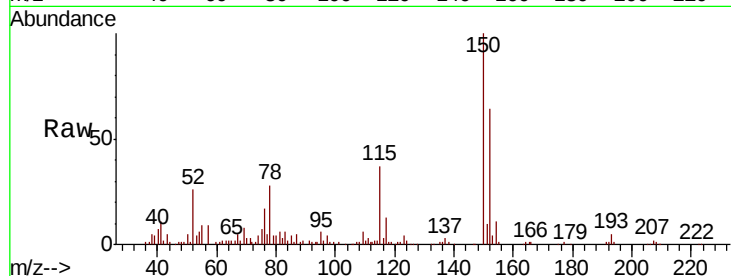


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)RE

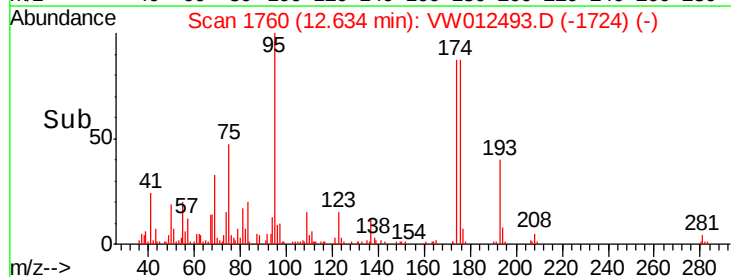
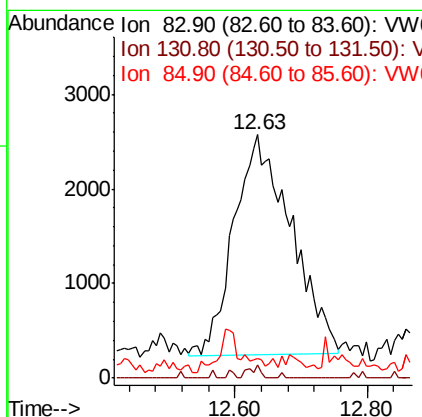
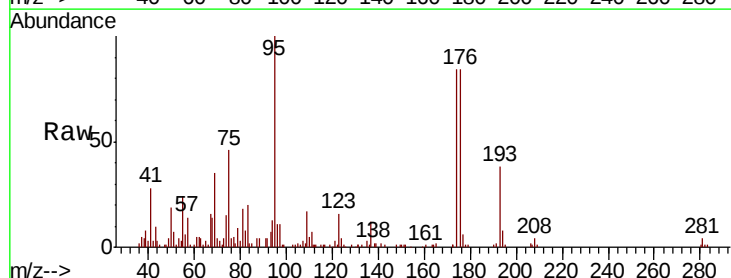
Tgt Ion:152 Resp: 33447
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.3
150 154.3 0.0 345.8

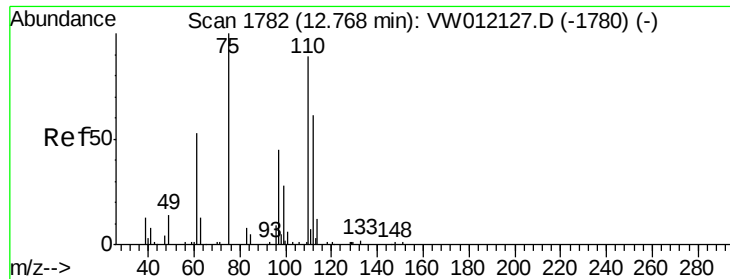


#75

1,1,2,2-Tetrachloroethane
Concen: 30.372 ug/l
RT: 12.63 min Scan# 1760
Delta R.T. -0.08 min
Lab File: VW012493.D
Acq: 02 Sep 2019 12:44

Tgt Ion: 83 Resp: 13955
Ion Ratio Lower Upper
83 100
131 1.2 4.9 14.7#
85 0.0 31.9 95.7#

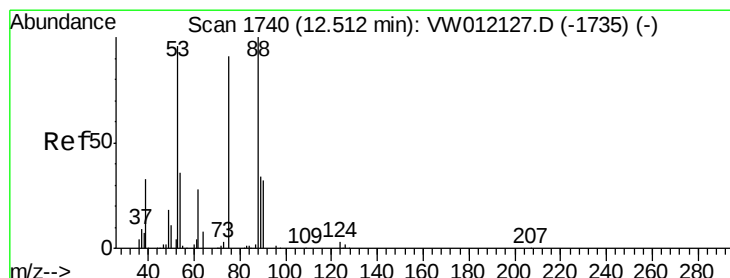
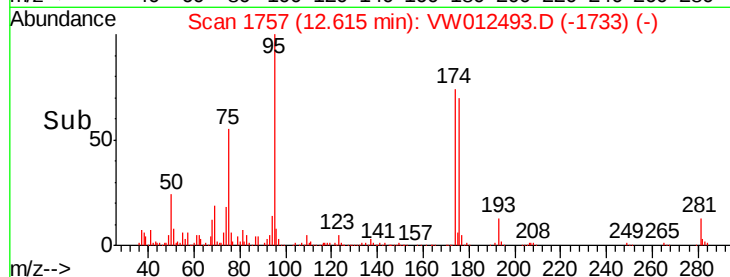
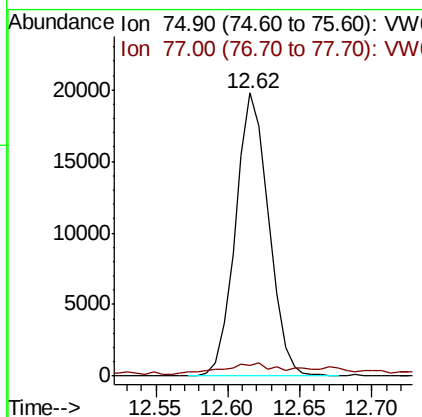
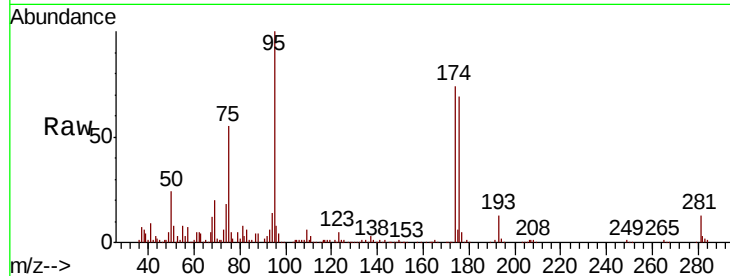




#76
 1,2,3-Trichloropropane
 Concen: 97.084 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012493.D
 Acq: 02 Sep 2019 12:44

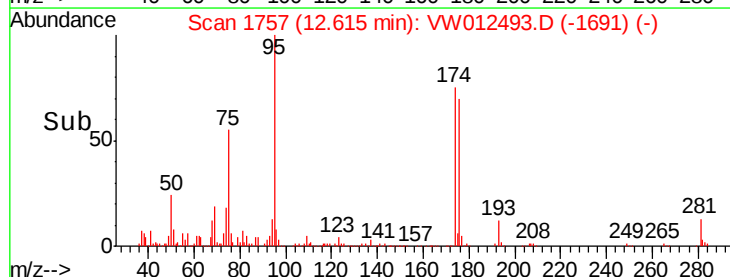
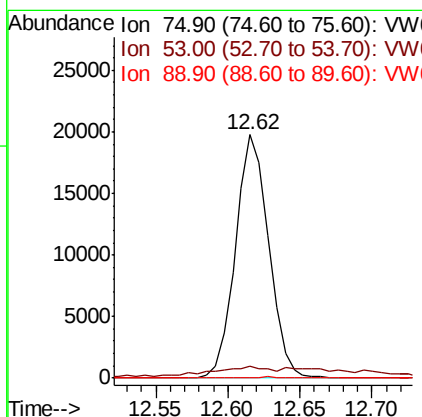
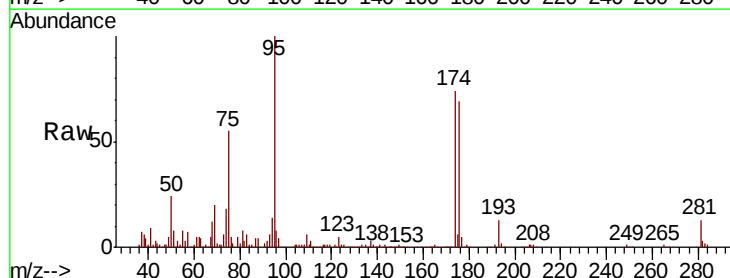
Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-O-(1.9)RE

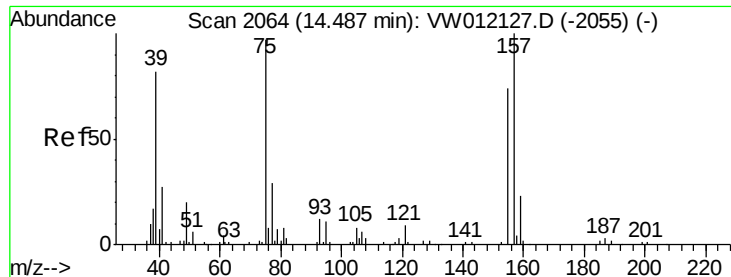
Tgt Ion: 75 Resp: 31625
 Ion Ratio Lower Upper
 75 100
 77 5.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 212.860 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012493.D
 Acq: 02 Sep 2019 12:44

Tgt Ion: 75 Resp: 31625
 Ion Ratio Lower Upper
 75 100
 53 7.9 89.4 134.0#
 89 0.3 34.5 51.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.188 ug/l

RT: 14.51 min Scan# 2068

Delta R.T. 0.02 min

Lab File: VW012493.D

Acq: 02 Sep 2019 12:44

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-O-(1.9)RE

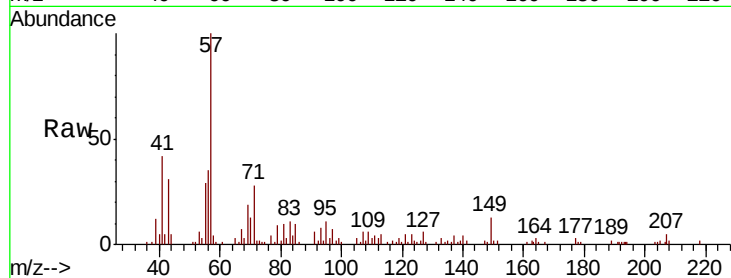
Tgt Ion: 75 Resp: 92

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

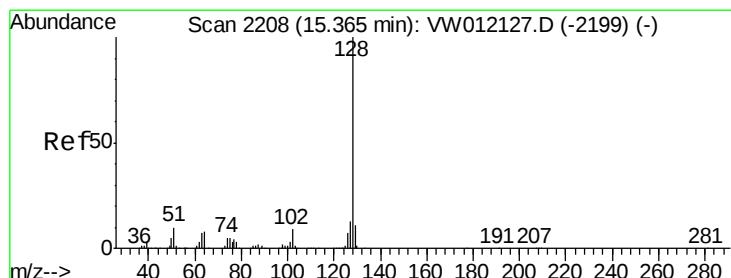
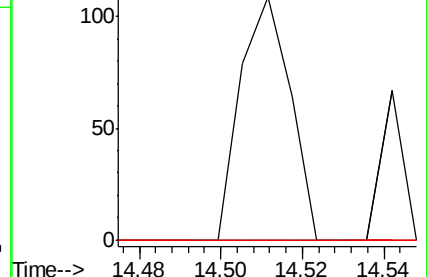
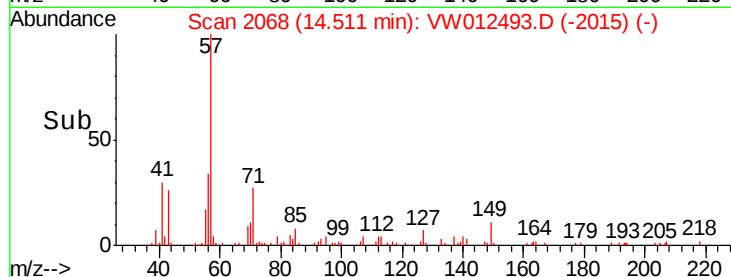
157 0.0 50.5 151.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 4.623 ug/l

RT: 15.35 min Scan# 2206

Delta R.T. -0.01 min

Lab File: VW012493.D

Acq: 02 Sep 2019 12:44

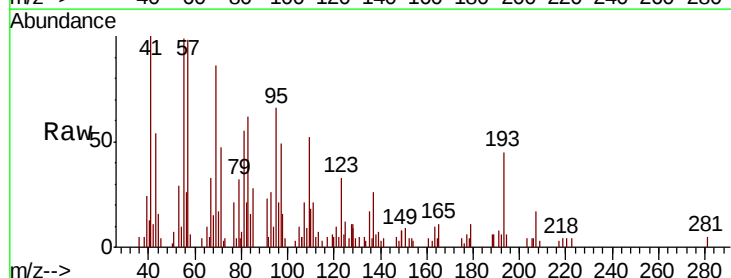
Tgt Ion: 128 Resp: 417

Ion Ratio Lower Upper

128 100

127 51.6 10.7 16.1#

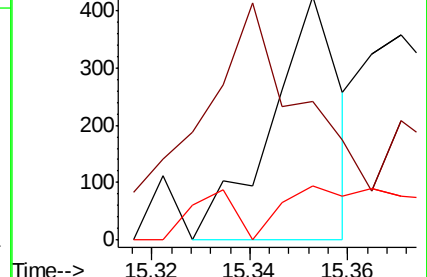
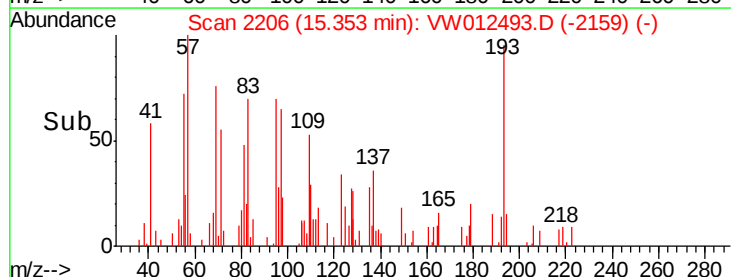
129 51.6 8.7 13.1#

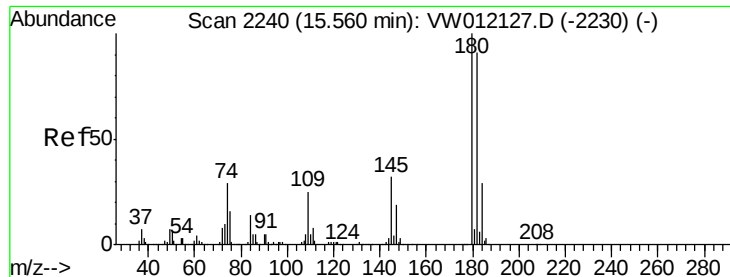


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.660 ug/l
 RT: 15.56 min Scan# 2240
 Delta R.T. -0.00 min
 Lab File: VW012493.D
 Acq: 02 Sep 2019 12:44

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-O-(1.9)RE

Tgt Ion	Ratio	Lower	Upper
180	100		
182	52.5	47.1	141.3
145	10.4	16.2	48.5#

