

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090119\
 Data File : VW012472.D
 Acq On : 02 Sep 2019 02:50
 Operator : SY/VA
 Sample : K4527-16
 Misc : 3.78G/5ML/MSVOA_W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

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

Quant Time: Sep 02 07:25:16 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	136760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	232882	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	130226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	27875	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	108663	66.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	133.68%	
35) Dibromofluoromethane	7.88	113	79950	57.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	115.02%	
50) Toluene-d8	10.32	98	235741	41.82	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	83.64%	
62) 4-Bromofluorobenzene	12.62	95	60190	30.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	60.58%	

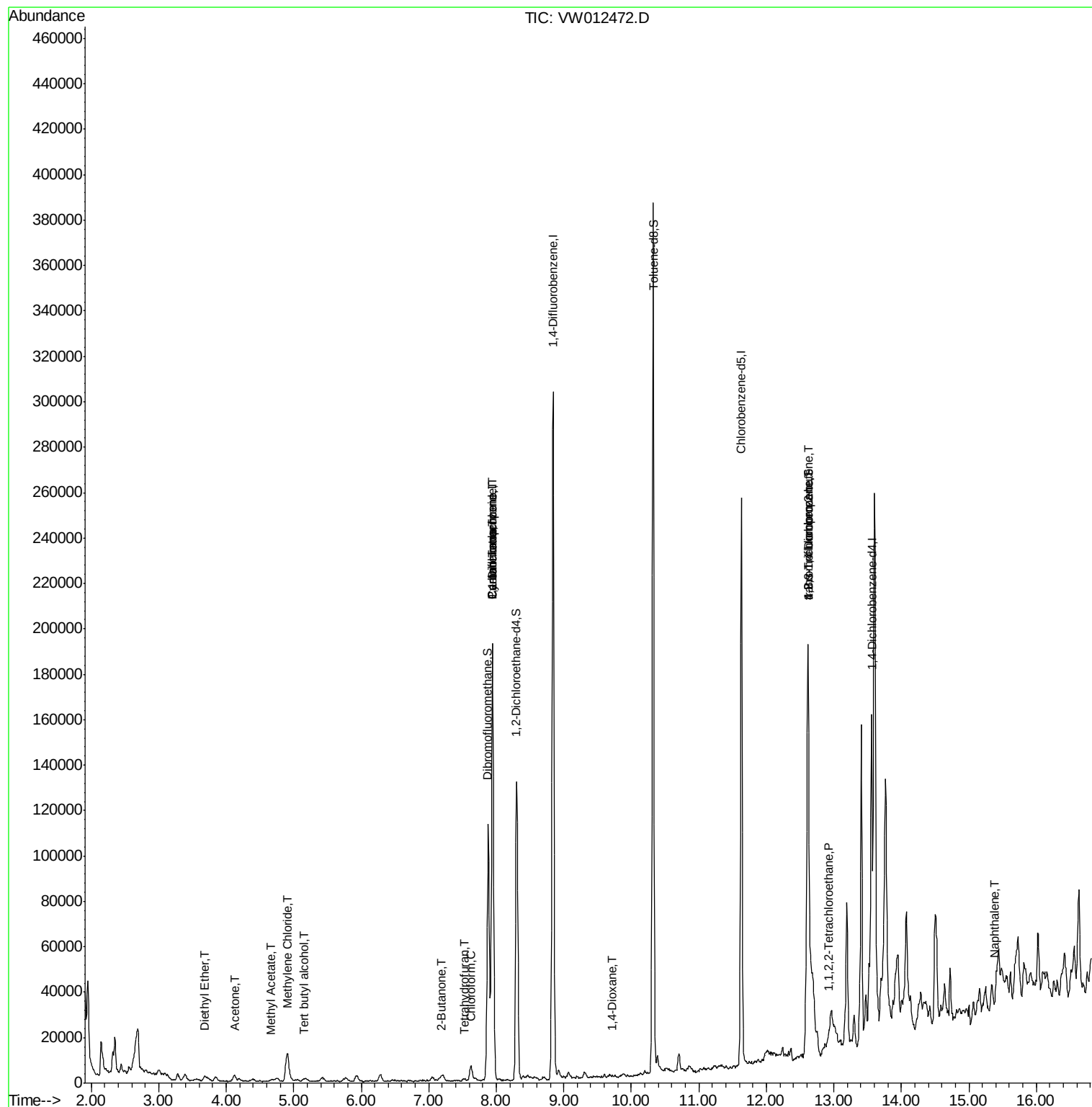
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	914	1.201	ug/l	97
11) Tert butyl alcohol	5.15	59	2040	20.851	ug/l #	82
16) Acetone	4.12	43	5234	12.595	ug/l #	77
18) Methyl Acetate	4.67	43	2094	2.034	ug/l	91
20) Methylene Chloride	4.90	84	9040	5.754	ug/l	93
25) 2-Butanone	7.18	43	1490	2.638	ug/l	100
29) Tetrahydrofuran	7.52	42	511	1.508	ug/l #	59
30) Chloroform	7.63	83	4013	1.482	ug/l #	19
31) Cyclohexane	7.95	56	3828	1.307	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	12222	5.079	ug/l #	52
38) Carbon Tetrachloride	7.95	117	14076	6.758	ug/l #	16
49) 1,4-Dioxane	9.72	88	19	1.577	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.91	83	477	1.246	ug/l	65
76) 1,2,3-Trichloropropane	12.62	75	26082	96.072	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	26082	210.642	ug/l #	6
95) Naphthalene	15.38	128	639	4.876	ug/l #	69

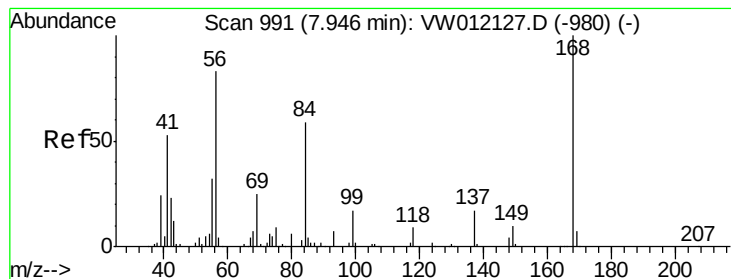
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012472.D

Acq: 02 Sep 2019 02:50

Instrument :

MSVOA_W

ClientSampled :

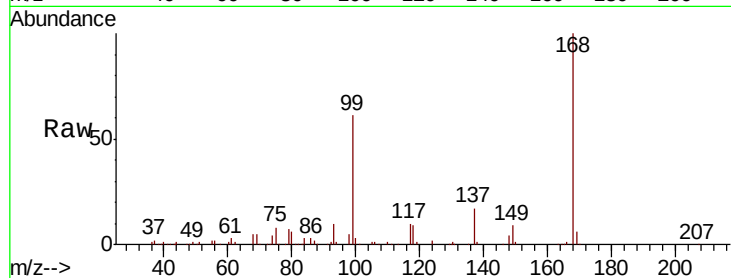
T9-12-13-O-(1.9)

Tgt Ion:168 Resp: 136760

Ion Ratio Lower Upper

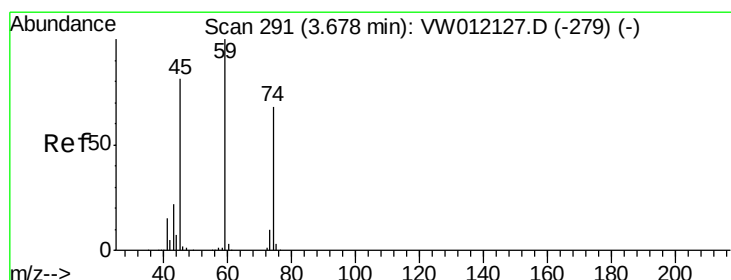
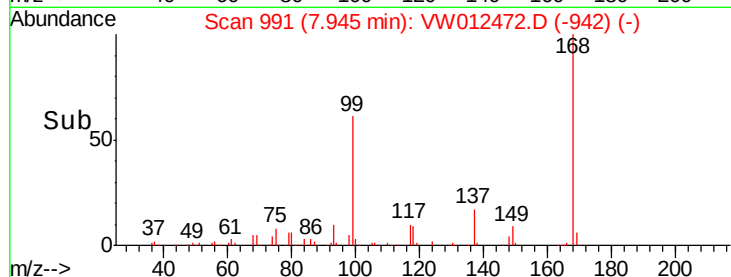
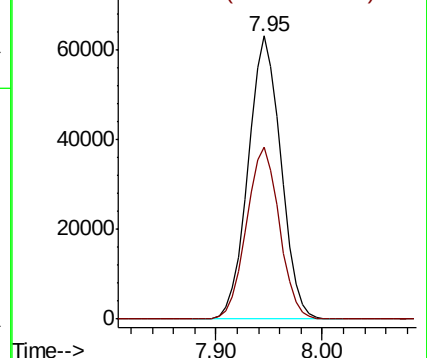
168 100

99 60.9 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.201 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012472.D

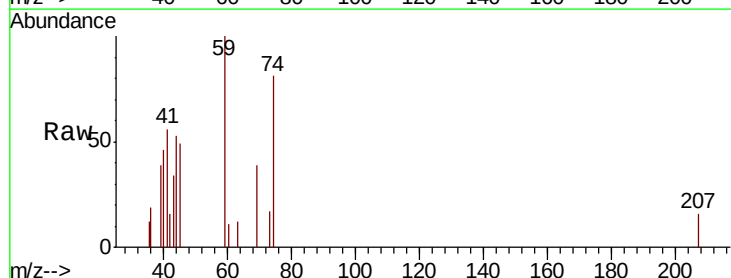
Acq: 02 Sep 2019 02:50

Tgt Ion: 74 Resp: 914

Ion Ratio Lower Upper

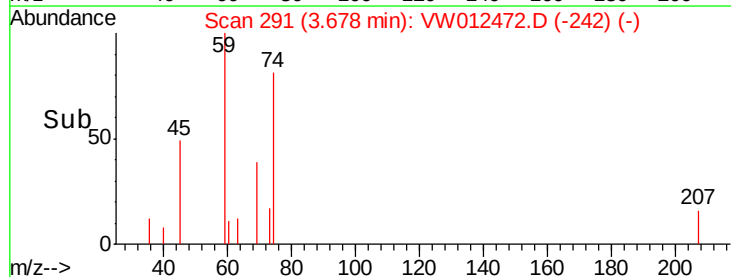
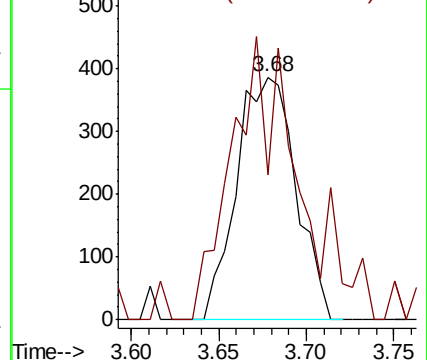
74 100

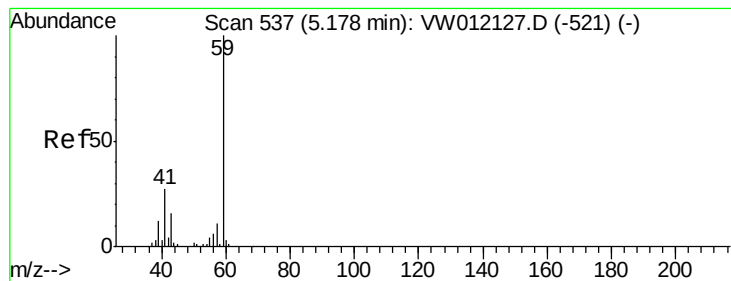
45 114.8 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



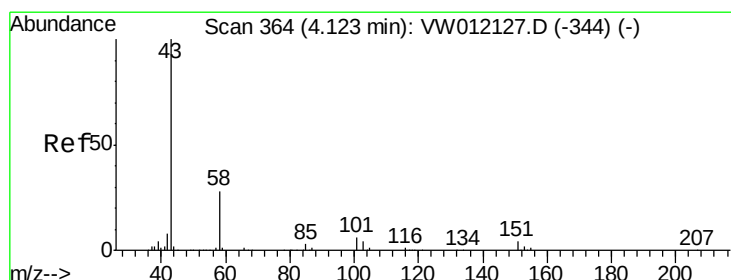
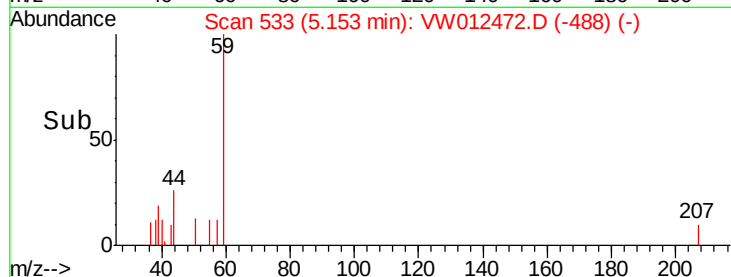
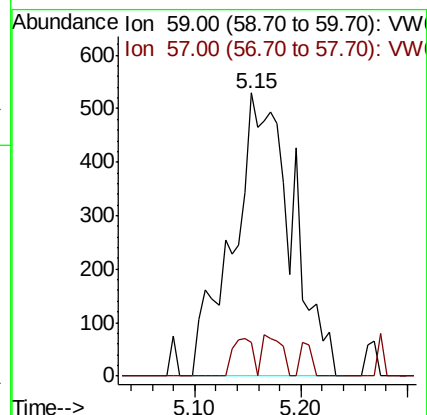
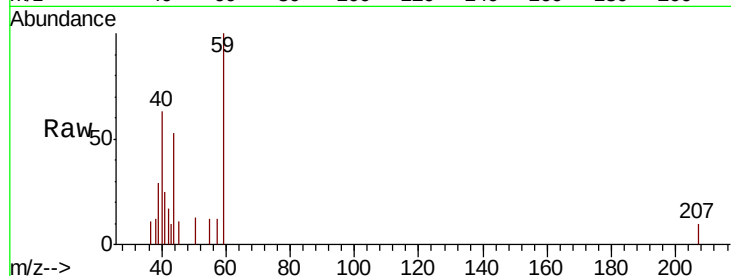


#11

Tert butyl alcohol
Concen: 20.851 ug/l
RT: 5.15 min Scan# 533
Delta R.T. -0.02 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

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

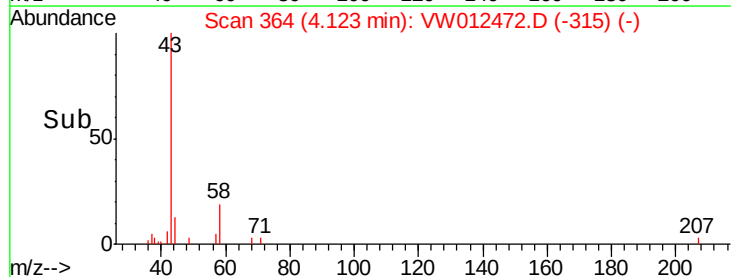
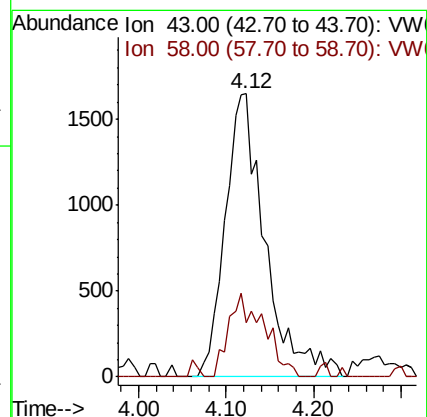
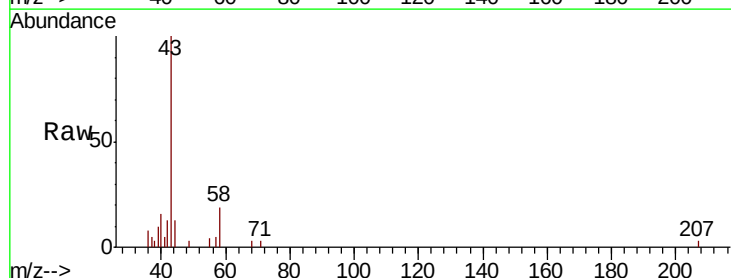
Tgt Ion: 59 Resp: 2040
Ion Ratio Lower Upper
59 100
57 4.5 9.0 13.4#

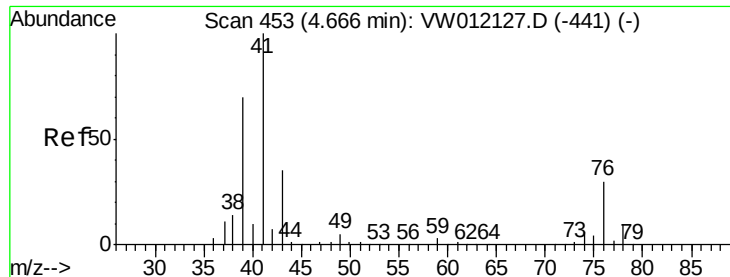


#16

Acetone
Concen: 12.595 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.00 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

Tgt Ion: 43 Resp: 5234
Ion Ratio Lower Upper
43 100
58 16.0 22.4 33.6#

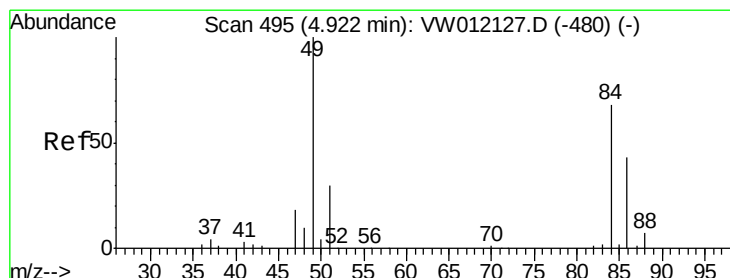
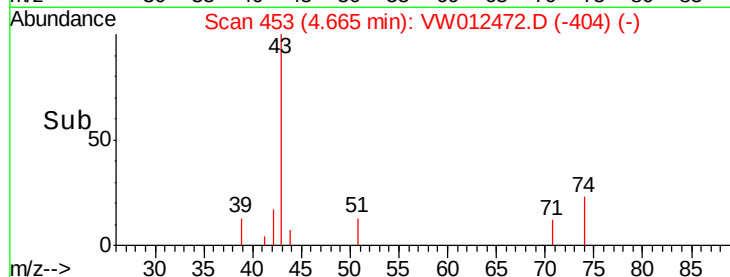
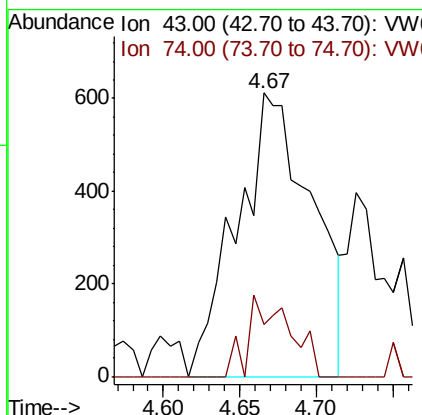
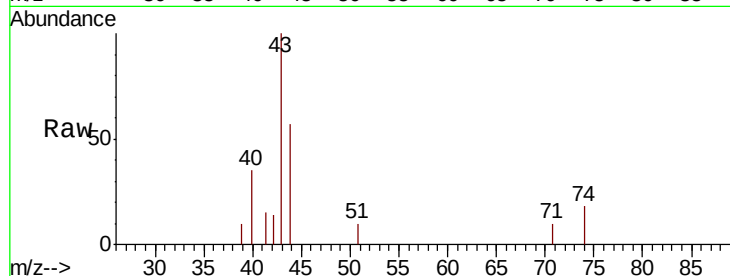




#18
Methyl Acetate
Concen: 2.034 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

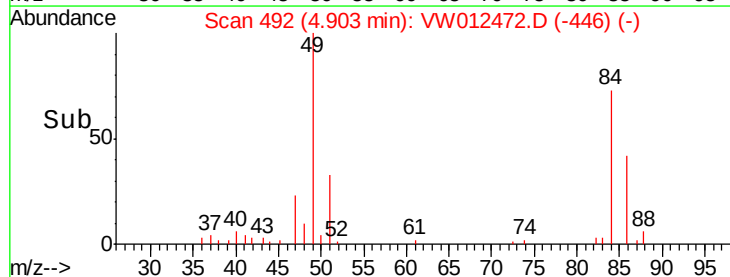
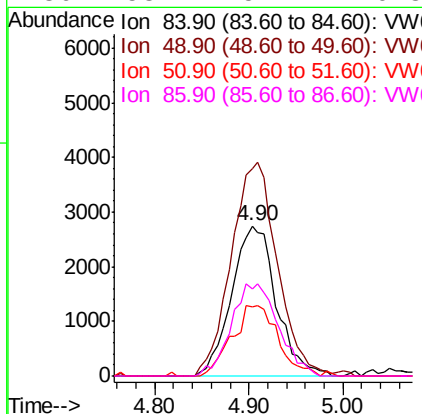
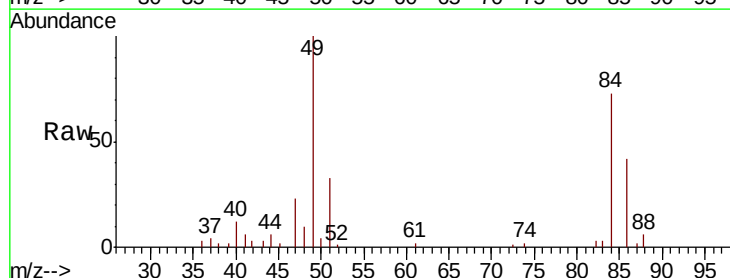
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)

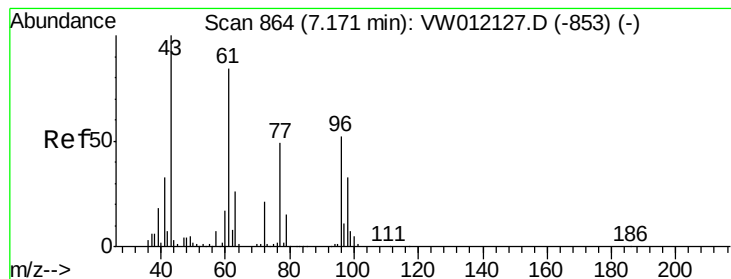
Tgt Ion: 43 Resp: 2094
Ion Ratio Lower Upper
43 100
74 15.7 15.7 23.5



#20
Methylene Chloride
Concen: 5.754 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.02 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

Tgt Ion: 84 Resp: 9040
Ion Ratio Lower Upper
84 100
49 137.6 117.8 176.8
51 45.7 35.6 53.4
86 58.2 51.2 76.8





#25

2-Butanone

Concen: 2.638 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

Instrument :

MSVOA_W

ClientSampleId :

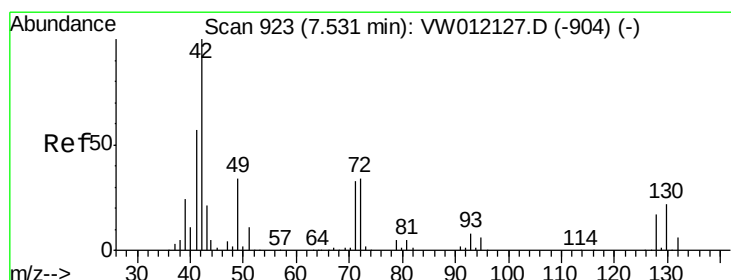
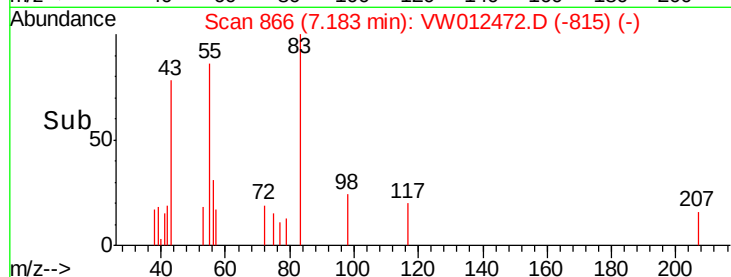
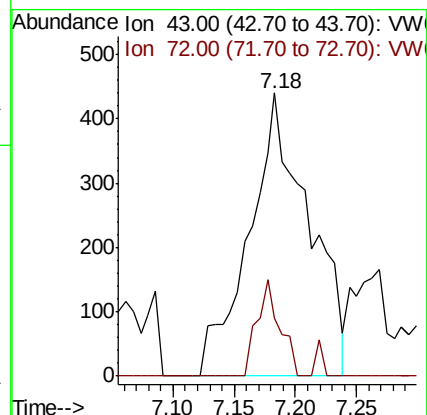
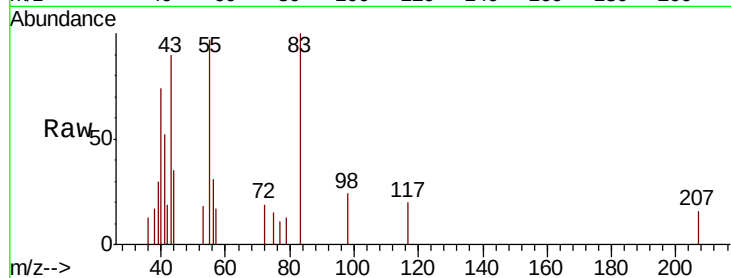
T9-12-13-O-(1.9)

Tgt Ion: 43 Resp: 1490

Ion Ratio Lower Upper

43 100

72 20.7 16.6 24.8



#29

Tetrahydrofuran

Concen: 1.508 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

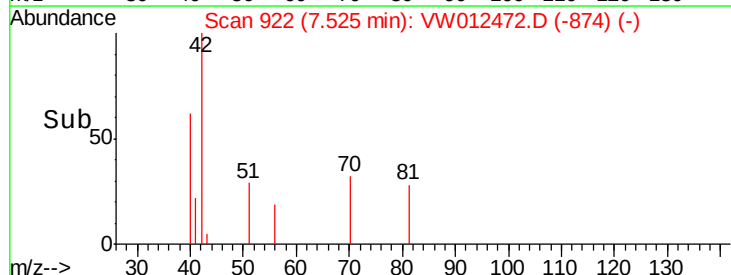
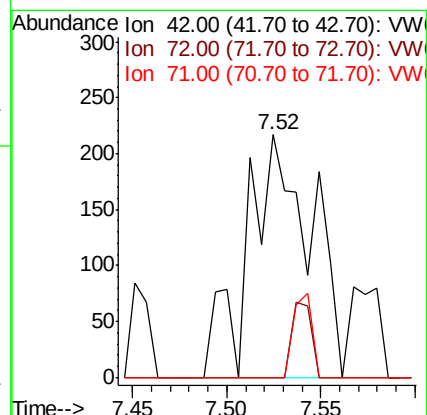
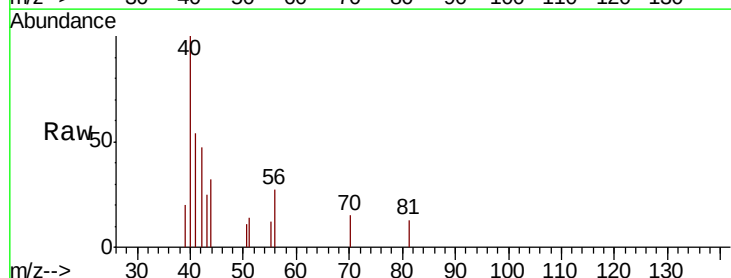
Tgt Ion: 42 Resp: 511

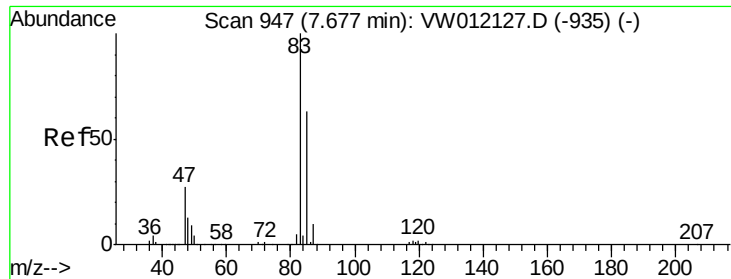
Ion Ratio Lower Upper

42 100

72 9.4 27.3 40.9#

71 10.0 25.5 38.3#

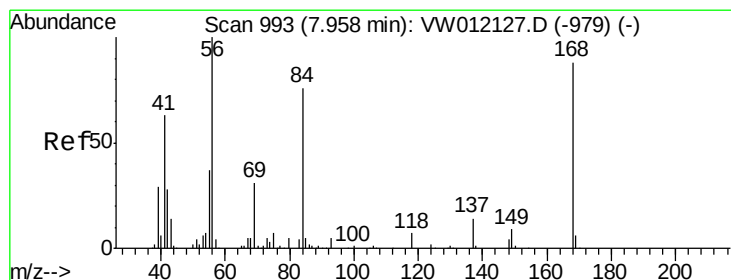
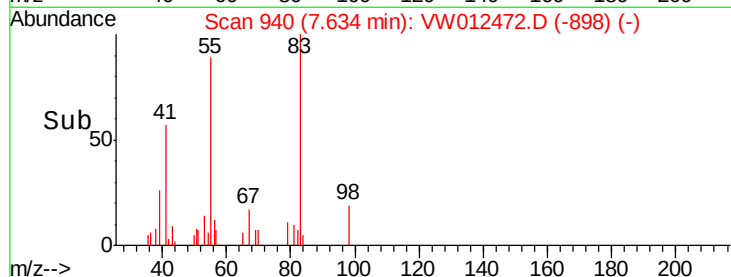
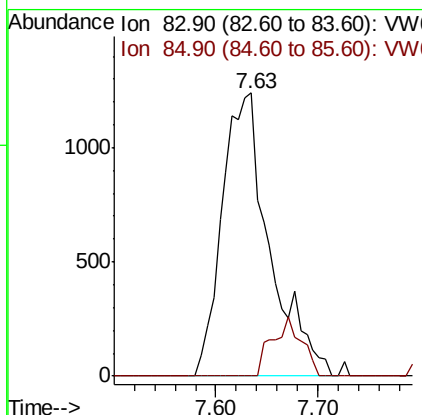
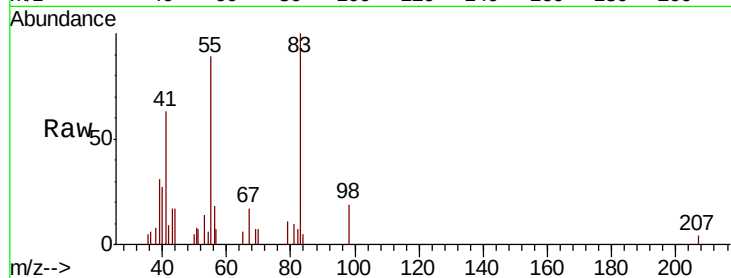




#30
Chloroform
Concen: 1.482 ug/l
RT: 7.63 min Scan# 940
Delta R.T. -0.04 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

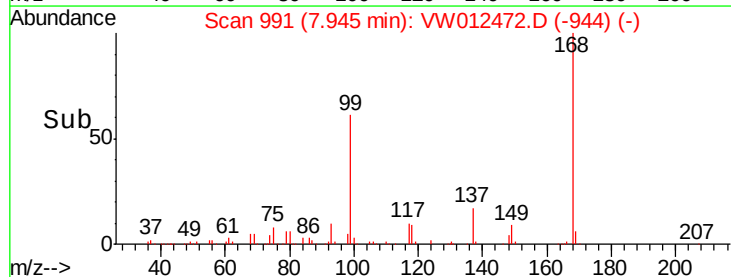
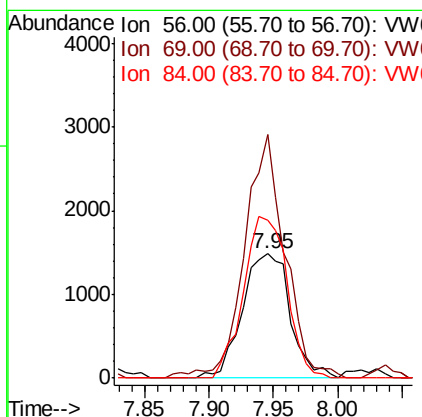
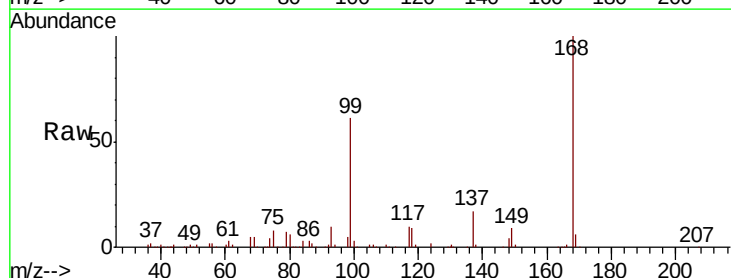
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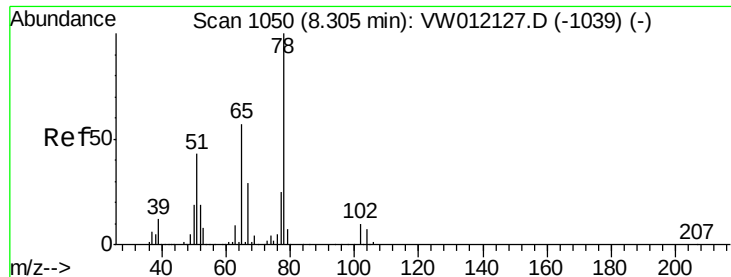
Tgt Ion: 83 Resp: 4013
Ion Ratio Lower Upper
83 100
85 0.0 50.6 76.0#



#31
Cyclohexane
Concen: 1.307 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

Tgt Ion: 56 Resp: 3828
Ion Ratio Lower Upper
56 100
69 192.3 24.9 37.3#
84 127.0 60.6 90.8#

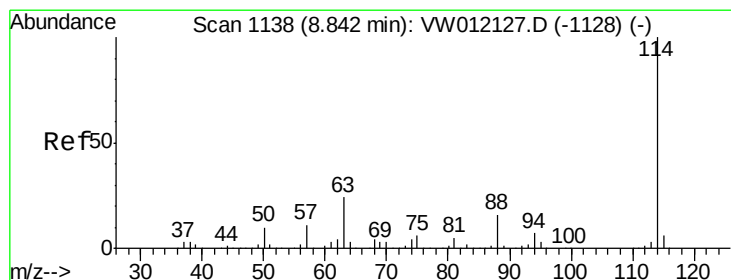
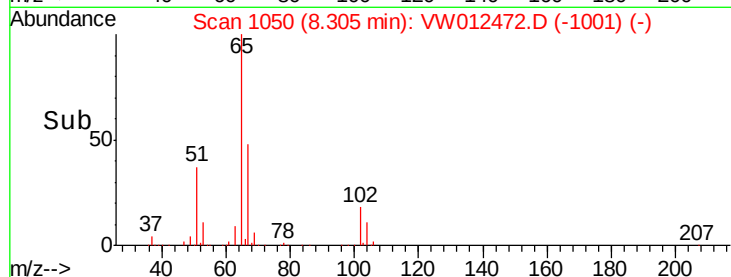
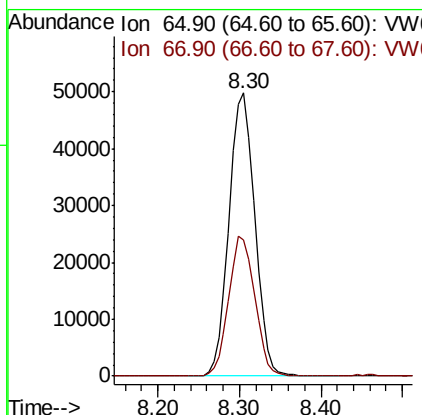
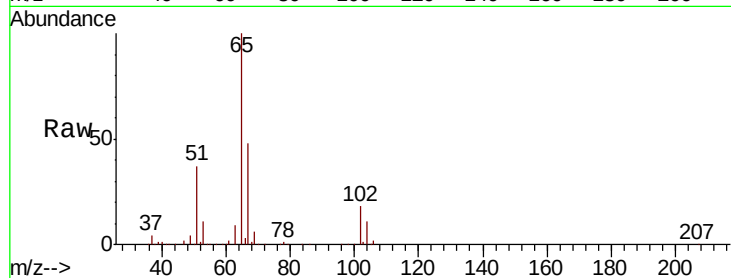




#33
 1,2-Dichloroethane-d4
 Concen: 66.839 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012472.D
 Acq: 02 Sep 2019 02:50

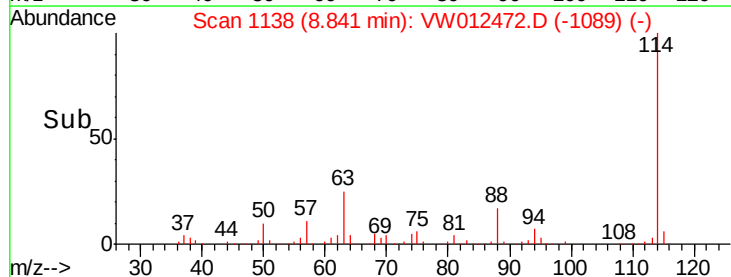
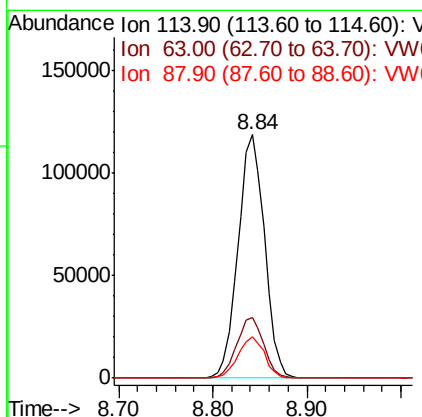
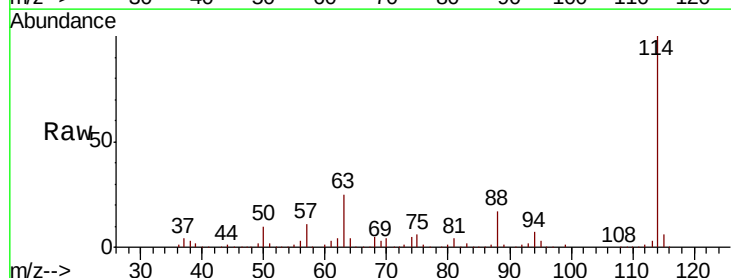
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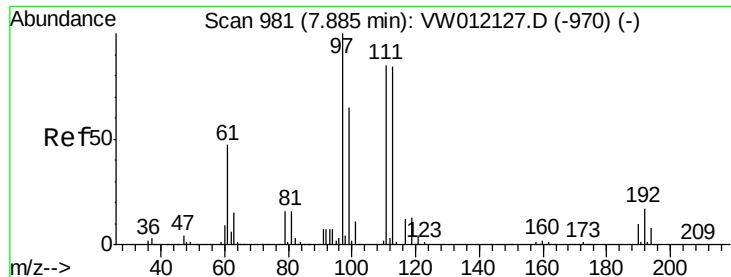
Tgt Ion: 65 Resp: 108663
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012472.D
 Acq: 02 Sep 2019 02:50

Tgt Ion: 114 Resp: 232882
 Ion Ratio Lower Upper
 114 100
 63 25.1 0.0 48.6
 88 17.1 0.0 32.2

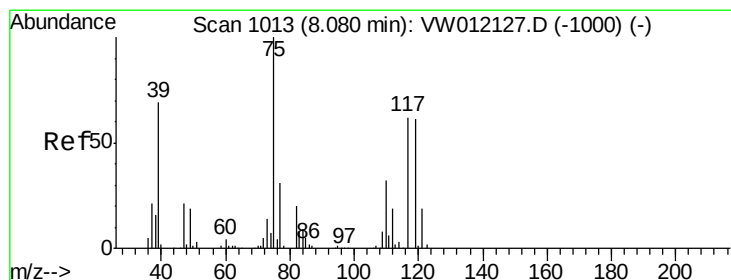
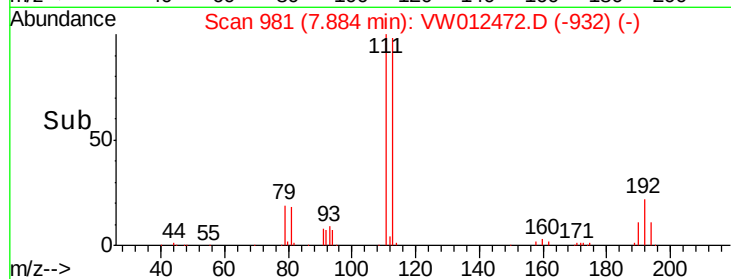
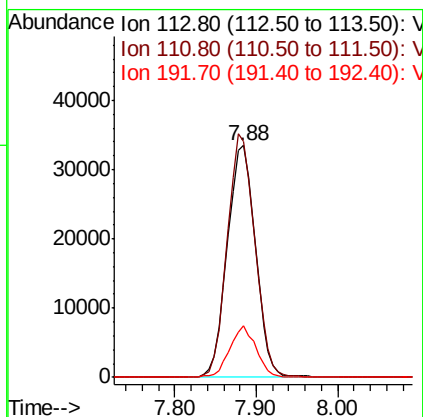
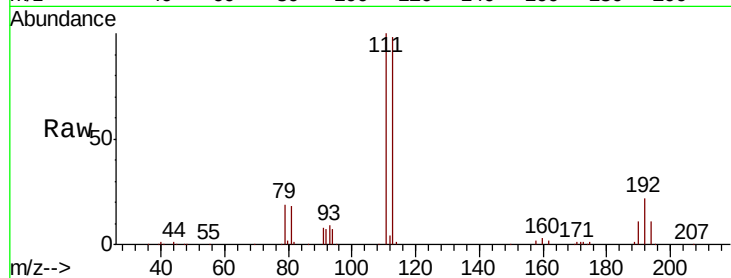




#35
 Dibromofluoromethane
 Concen: 57.515 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012472.D
 Acq: 02 Sep 2019 02:50

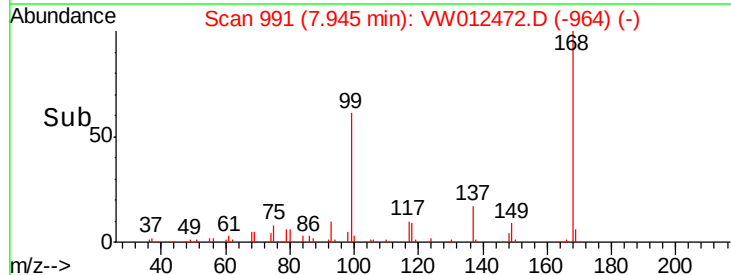
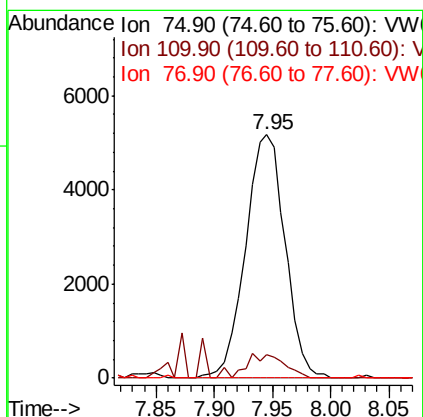
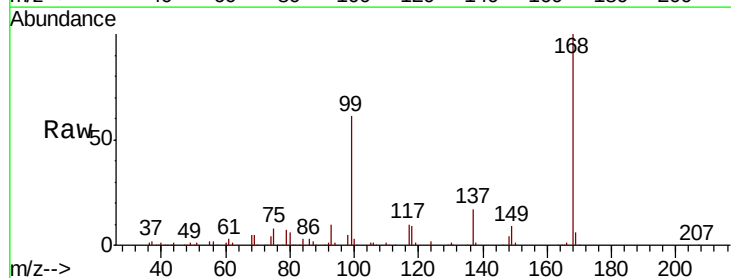
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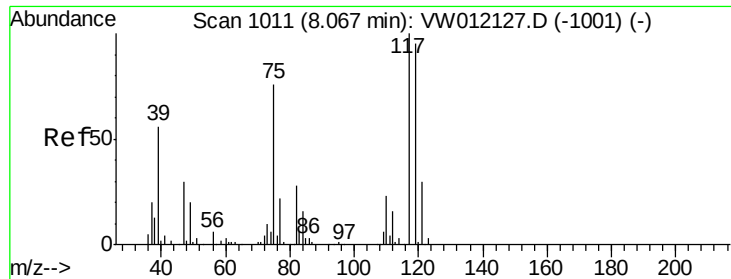
Tgt Ion: 113 Resp: 79950
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.7 124.1
 192 20.5 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.079 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012472.D
 Acq: 02 Sep 2019 02:50

Tgt Ion: 75 Resp: 12222
 Ion Ratio Lower Upper
 75 100
 110 9.2 15.6 46.8#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.758 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-O-(1.9)

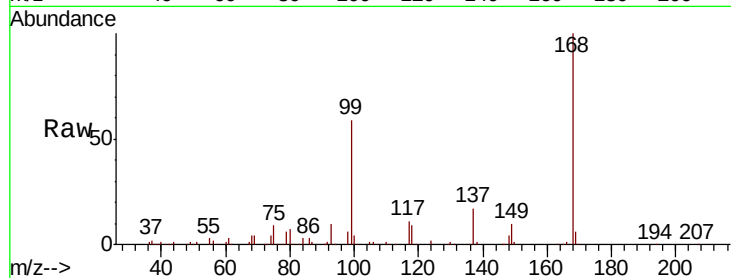
Tgt Ion:117 Resp: 14076

Ion Ratio Lower Upper

117 100

119 4.1 76.2 114.2#

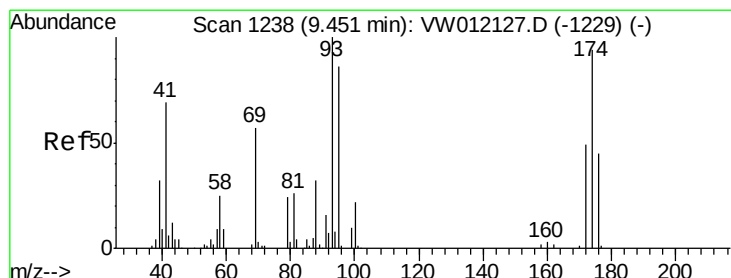
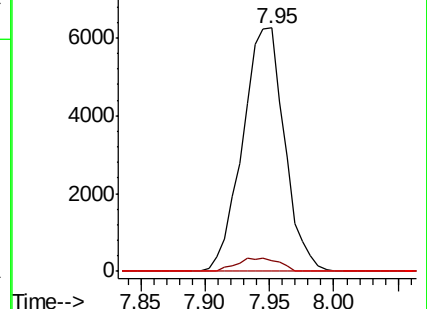
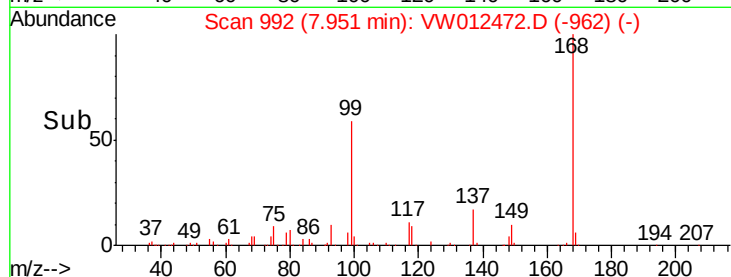
121 0.0 23.8 35.8#



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



#49

1,4-Dioxane

Concen: 1.577 ug/l

RT: 9.72 min Scan# 1282

Delta R.T. 0.27 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

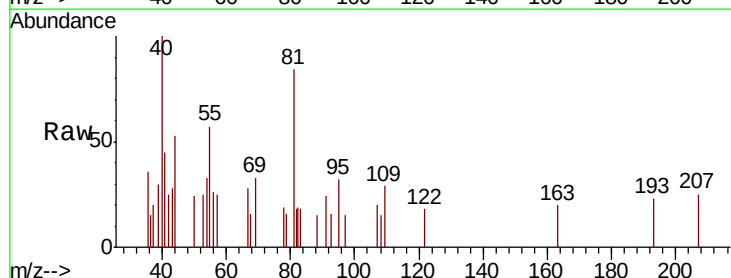
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 568.4 32.9 49.3#

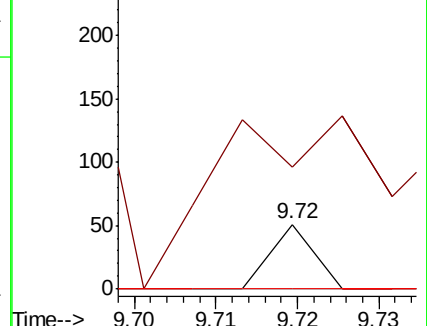
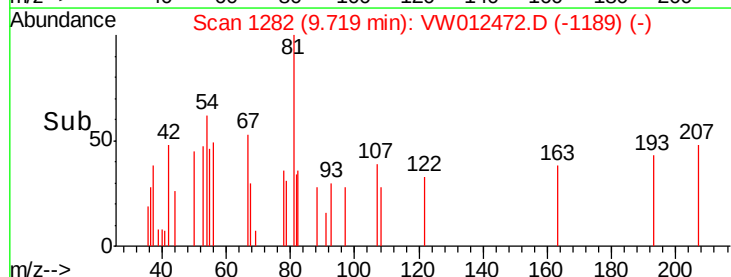
58 0.0 71.0 106.4#

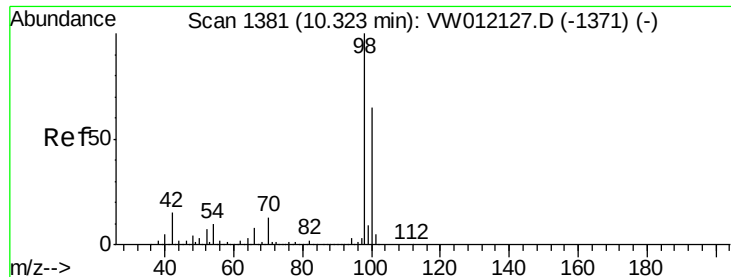


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 41.825 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

Instrument :

MSVOA_W

ClientSampleId :

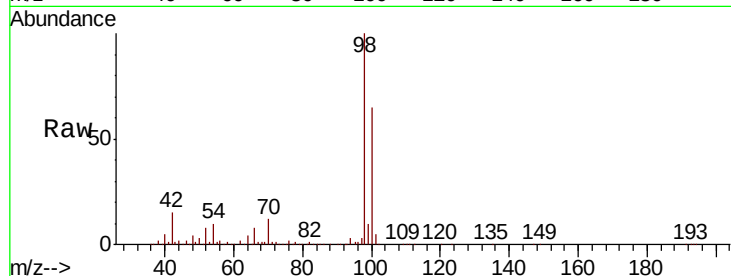
T9-12-13-O-(1.9)

Tgt Ion: 98 Resp: 235741

Ion Ratio Lower Upper

98 100

100 65.6 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

150000

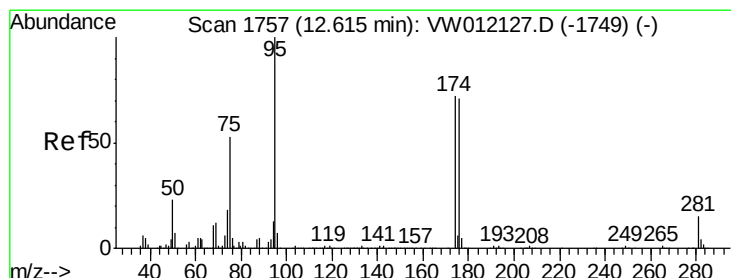
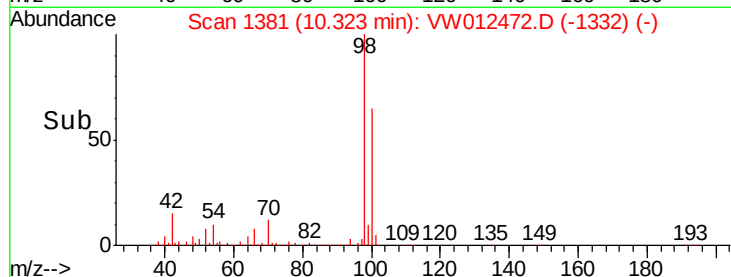
100000

50000

0

10.30 10.40

Time-->



#62

4-Bromofluorobenzene

Concen: 30.295 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

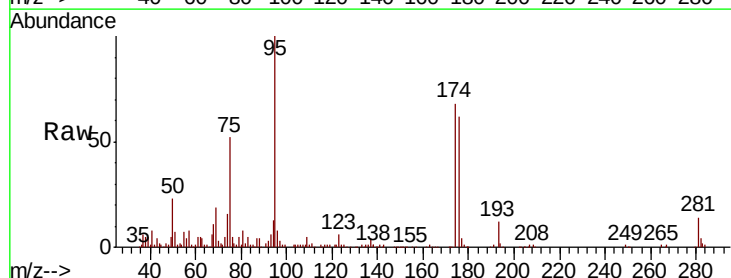
Tgt Ion: 95 Resp: 60190

Ion Ratio Lower Upper

95 100

174 59.9 0.0 150.8

176 56.8 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

40000

30000

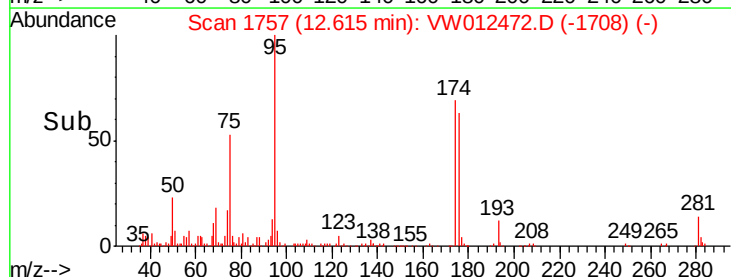
20000

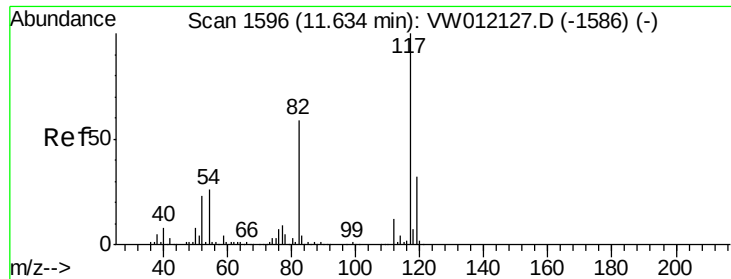
10000

0

12.50 12.60 12.70 12.80

Time-->

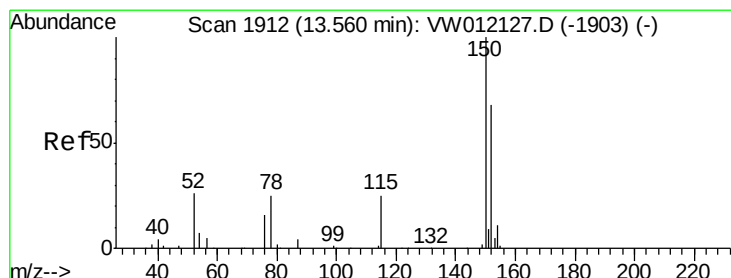
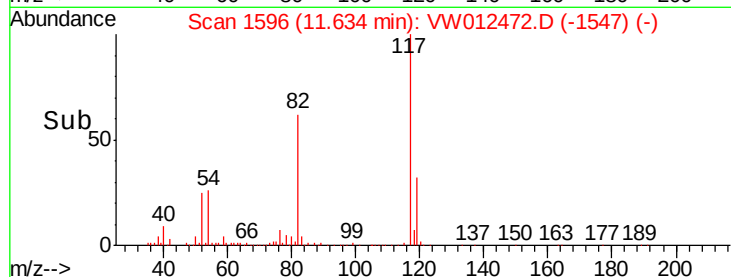
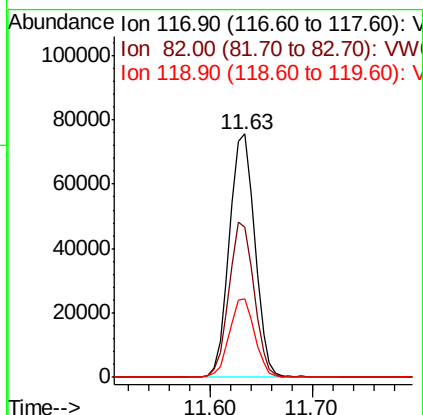
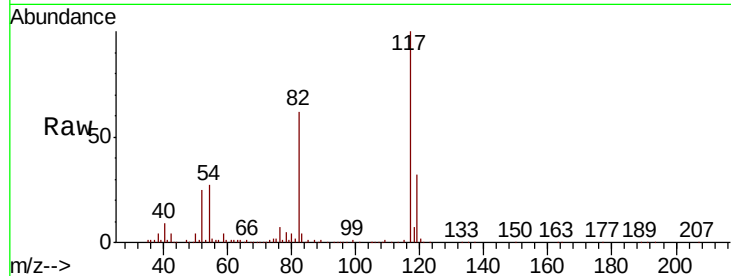




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

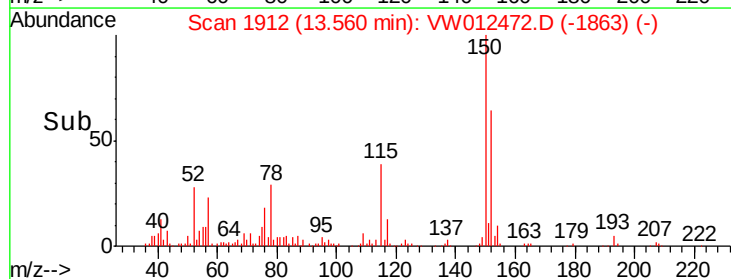
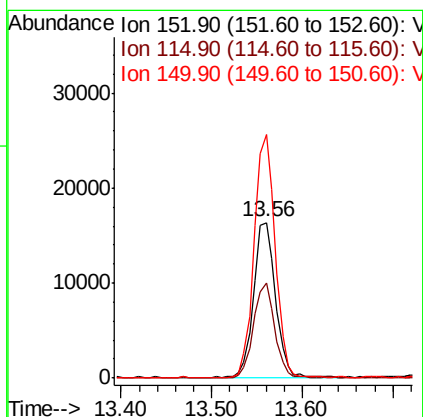
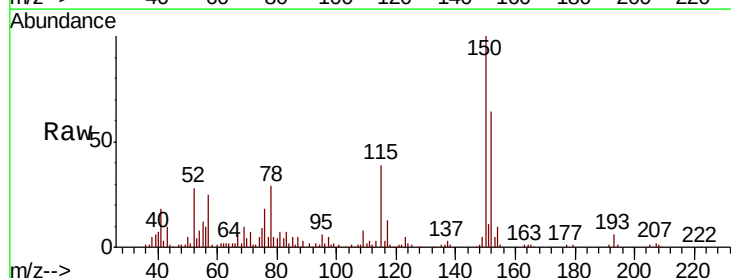
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-O-(1.9)

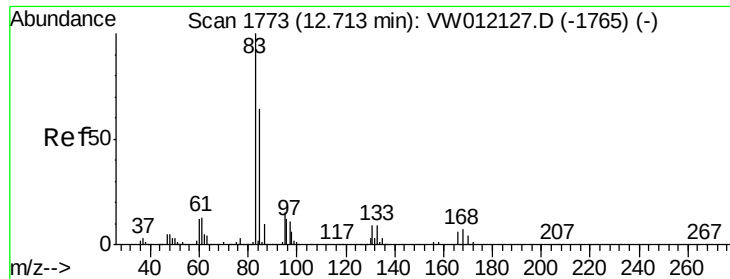
Tgt Ion:117 Resp: 130226
Ion Ratio Lower Upper
117 100
82 61.7 47.4 71.2
119 32.2 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012472.D
Acq: 02 Sep 2019 02:50

Tgt Ion:152 Resp: 27875
Ion Ratio Lower Upper
152 100
115 58.7 30.1 90.3
150 148.4 0.0 345.8

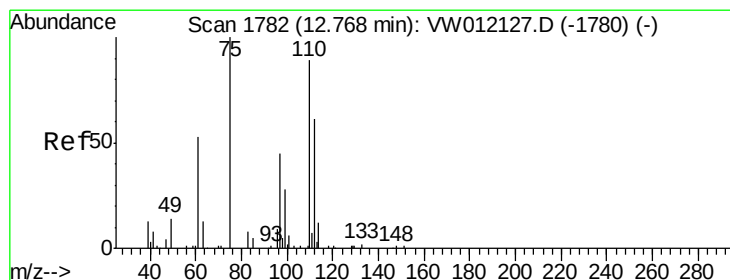
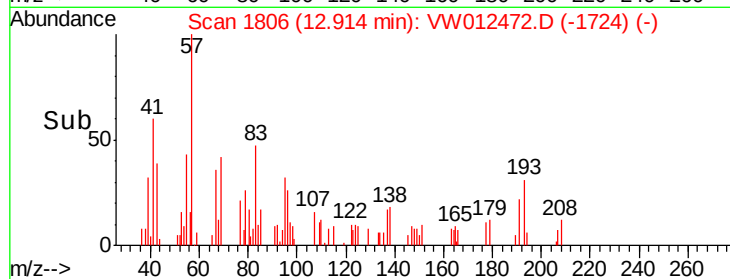
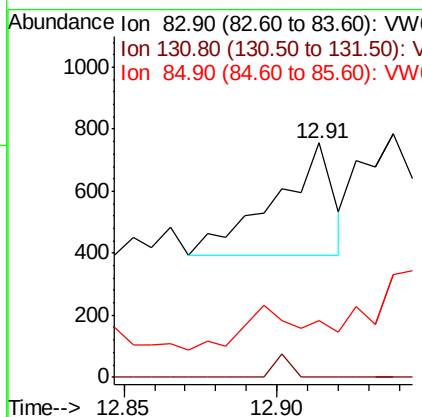
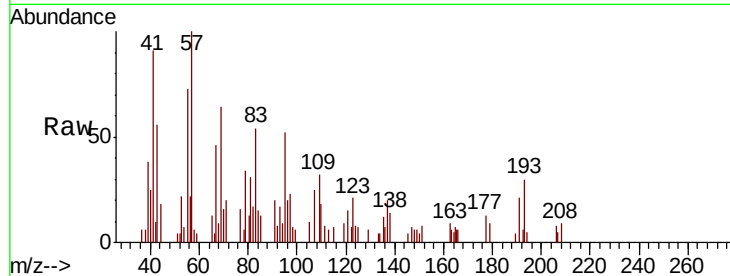




#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.246 ug/l
 RT: 12.91 min Scan# 1806
 Delta R.T. 0.20 min
 Lab File: VW012472.D
 Acq: 02 Sep 2019 02:50

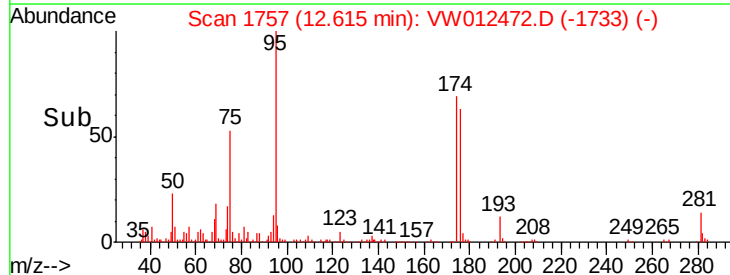
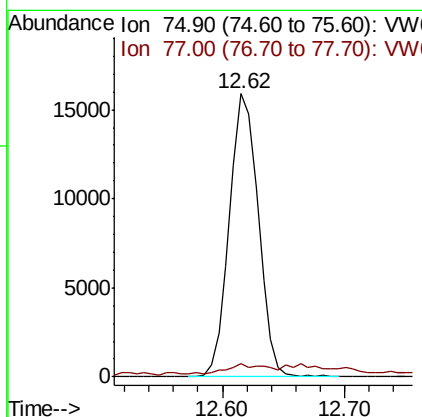
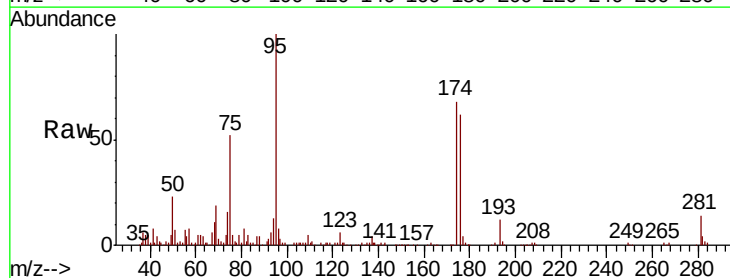
Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-O-(1.9)

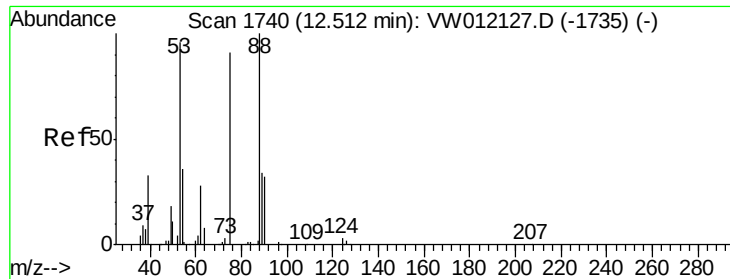
Tgt Ion: 83 Resp: 477
 Ion Ratio Lower Upper
 83 100
 131 5.9 4.9 14.7
 85 34.0 31.9 95.7



#76
 1,2,3-Trichloropropane
 Concen: 96.072 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012472.D
 Acq: 02 Sep 2019 02:50

Tgt Ion: 75 Resp: 26082
 Ion Ratio Lower Upper
 75 100
 77 4.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 210.642 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-O-(1.9)

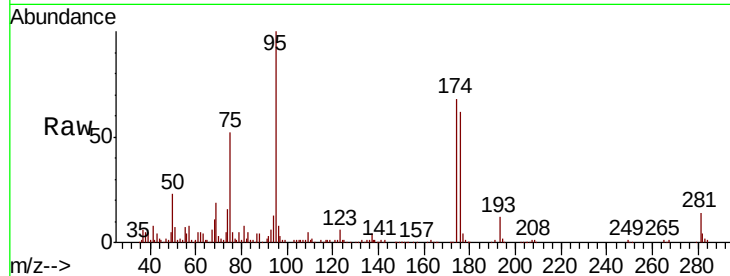
Tgt Ion: 75 Resp: 26082

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

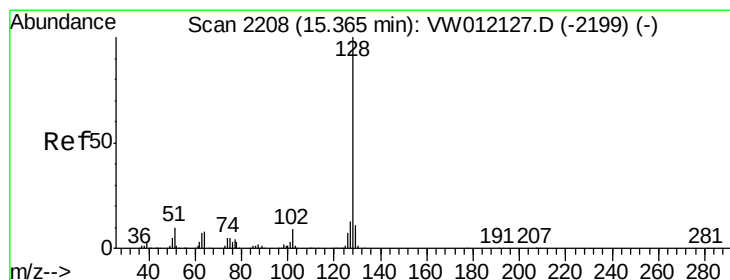
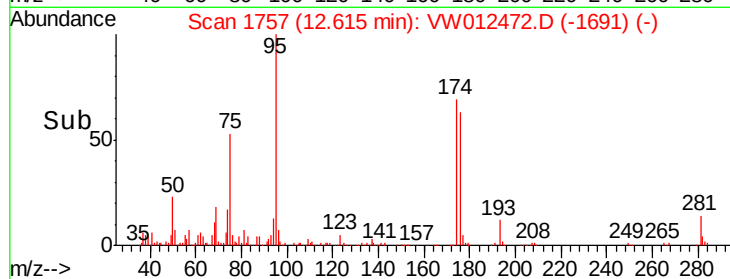
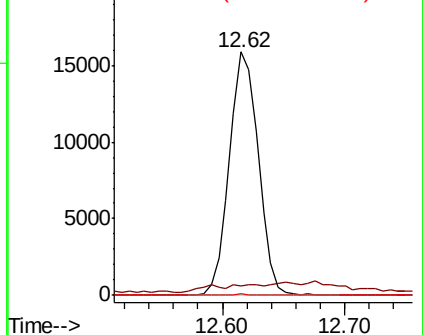
89 0.2 34.5 51.7#



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



#95

Naphthalene

Concen: 4.876 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW012472.D

Acq: 02 Sep 2019 02:50

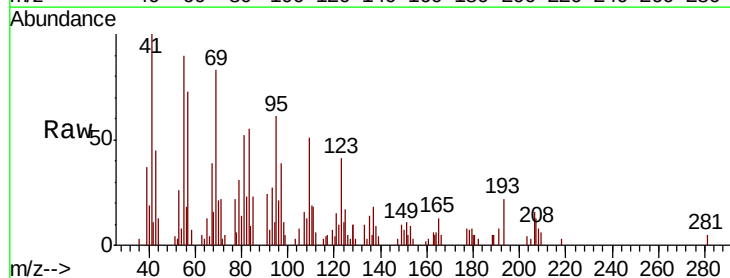
Tgt Ion: 128 Resp: 639

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 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

