

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082719\
 Data File : VW012204.D
 Acq On : 27 Aug 2019 11:32
 Operator : SY/VA
 Sample : K4506-01
 Misc : 5.18G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RO-COMP

Quant Time: Aug 28 05:22:03 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

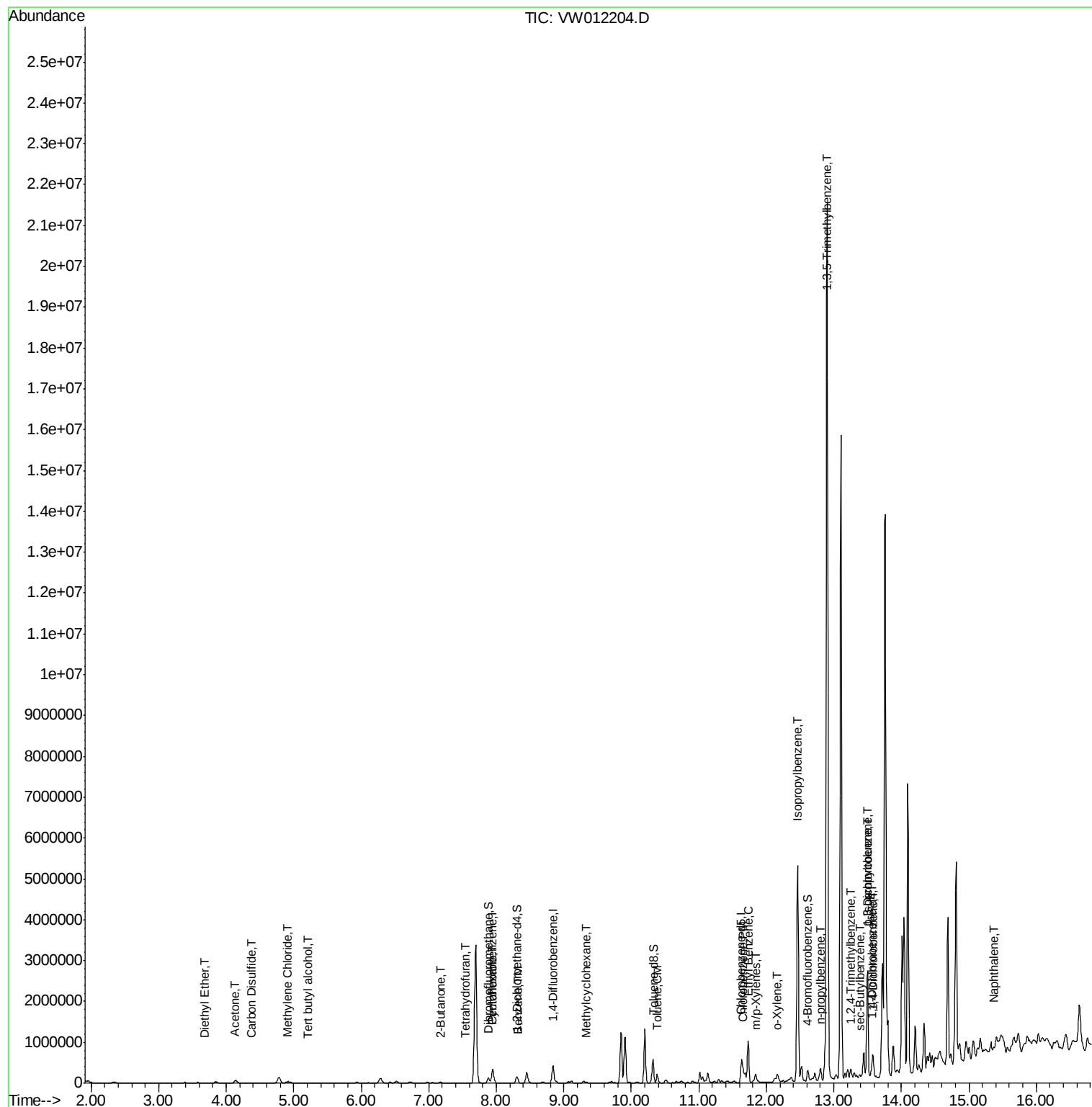
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	185445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	307060	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	198963	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	47082	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	115844	52.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.10%	
35) Dibromofluoromethane	7.88	113	93019	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
50) Toluene-d8	10.32	98	343098	46.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.34%	
62) 4-Bromofluorobenzene	12.62	95	89748	34.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.52%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	3286	3.184	ug/l	74
11) Tert butyl alcohol	5.21	59	7451	56.164	ug/l #	91
16) Acetone	4.14	43	147906	262.471	ug/l	98
17) Carbon Disulfide	4.38	76	15343	2.729	ug/l	99
20) Methylene Chloride	4.91	84	25982	12.196	ug/l	95
25) 2-Butanone	7.18	43	28289	36.943	ug/l	95
29) Tetrahydrofuran	7.54	42	6294	13.700	ug/l #	83
31) Cyclohexane	7.95	56	58196	14.656	ug/l	94
39) Methylcyclohexane	9.34	83	7474	2.097	ug/l	90
40) Benzene	8.32	78	20741	2.394	ug/l	93
52) Toluene	10.38	92	93079	17.882	ug/l	98
65) Chlorobenzene	11.66	112	147195	37.571	ug/l	99
67) Ethyl Benzene	11.73	91	647218	85.760	ug/l	99
68) m/p-Xylenes	11.84	106	37447	13.775	ug/l	98
69) o-Xylene	12.16	106	43092	17.127	ug/l	91
73) Isopropylbenzene	12.46	105	3112515	882.252	ug/l	98
78) n-propylbenzene	12.80	91	243693	56.582	ug/l #	55
80) 1,3,5-Trimethylbenzene	12.90	105	12749996	4325.075	ug/l	76
84) 1,2,4-Trimethylbenzene	13.25	105	142043m	47.967	ug/l	
85) sec-Butylbenzene	13.38	105	43533m	12.168	ug/l	
86) p-Isopropyltoluene	13.50	119	1327858	415.605	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	73528	49.254	ug/l	93
88) 1,4-Dichlorobenzene	13.58	146	132411	89.329	ug/l	96
95) Naphthalene	15.36	128	178558	96.176	ug/l	96

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

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Quant Time: Aug 28 05:22:03 2019
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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: VW012204.D

Acq: 27 Aug 2019 11:32

Instrument :

MSVOA_W

ClientSampleId :

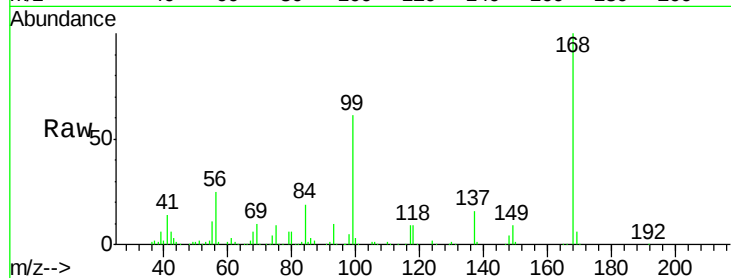
RO-COMP

Tot Ion:168 Resp: 185445

Ion Ratio Lower Upper

168 100

99 61.0 49.2 73.8

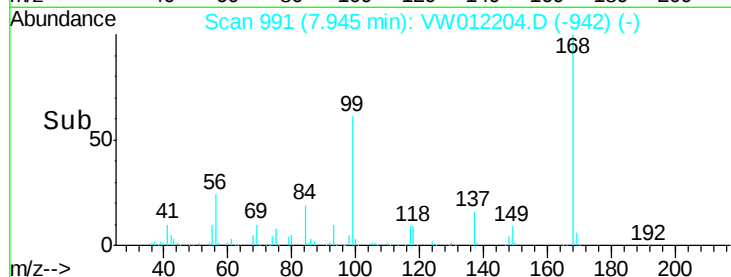


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

Time-->



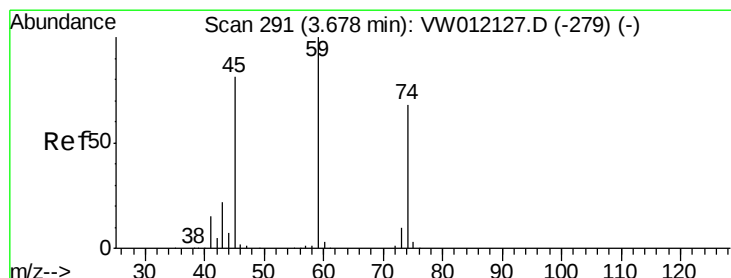
Abundance

Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

Time-->



#8

Diethyl Ether

Concen: 3.184 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012204.D

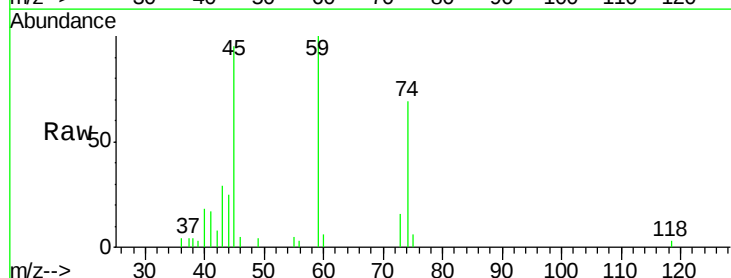
Acq: 27 Aug 2019 11:32

Tgt Ion: 74 Resp: 3286

Ion Ratio Lower Upper

74 100

45 146.7 59.2 177.6

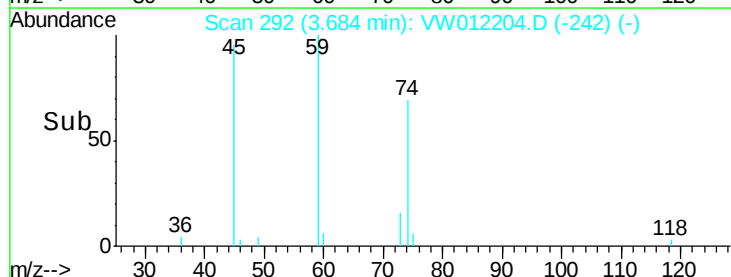


Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

Time-->



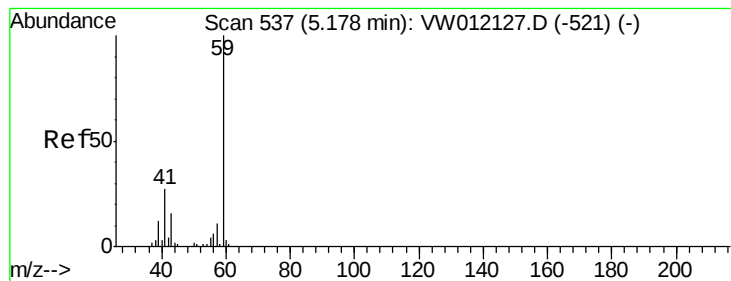
Abundance

Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

Time-->

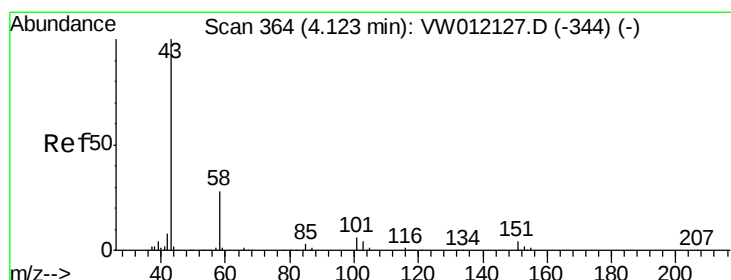
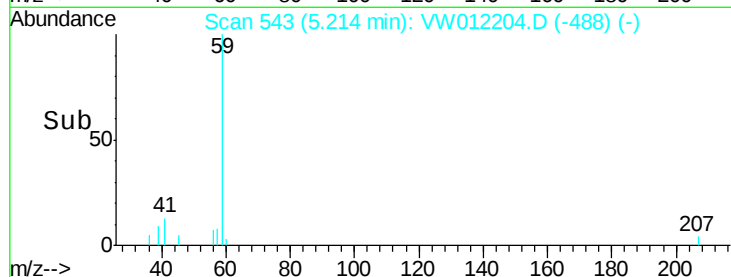
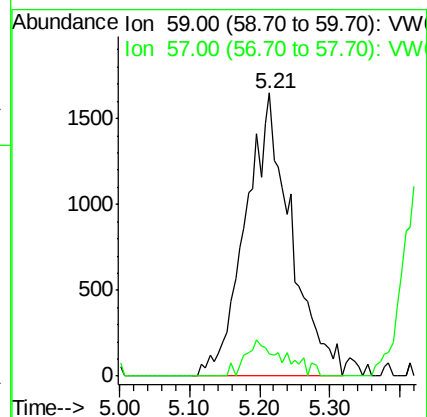
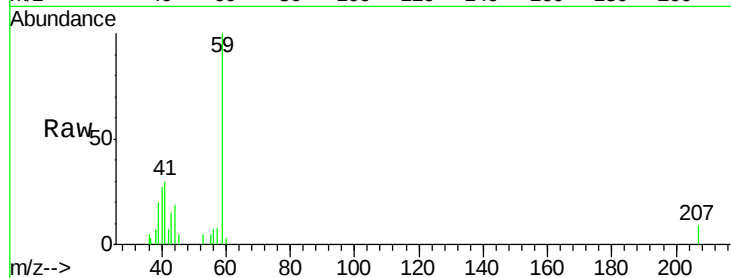


#11

Tert butyl alcohol
Concen: 56.164 ug/l
RT: 5.21 min Scan# 543
Delta R.T. 0.04 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Instrument :
MSVOA_W
ClientSampleId :
RO-COMP

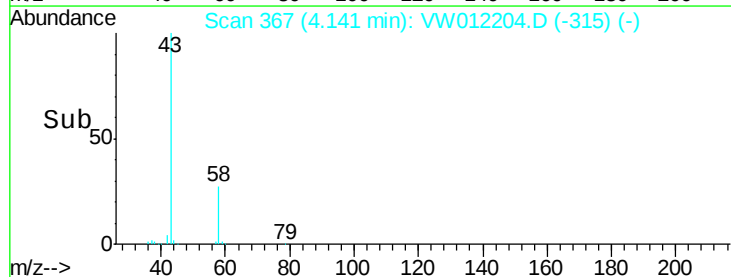
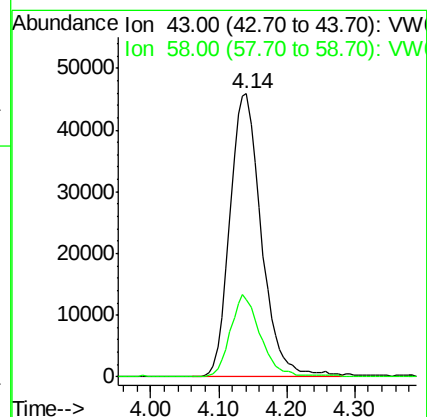
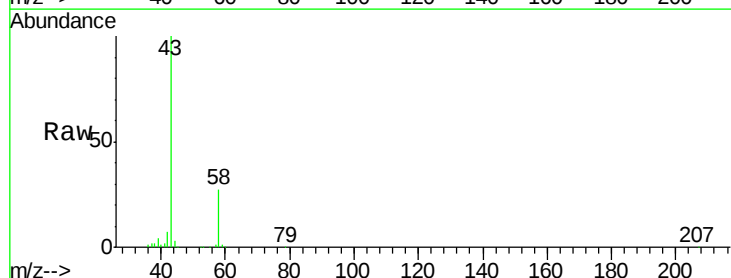
Tot Ion: 59 Resp: 7451
Ion Ratio Lower Upper
59 100
57 7.7 9.0 13.4#

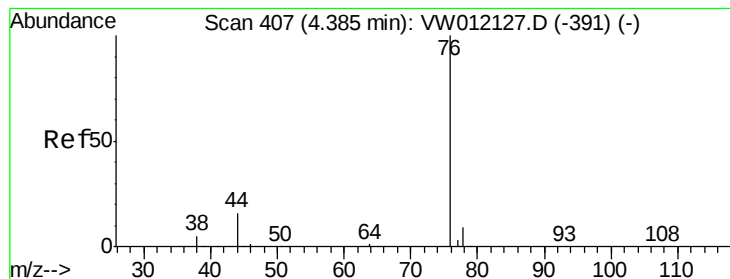


#16

Acetone
Concen: 262.471 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.02 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Tgt Ion: 43 Resp: 147906
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6





#17

Carbon Disulfide

Concen: 2.729 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

Instrument :

MSVOA_W

ClientSampleId :

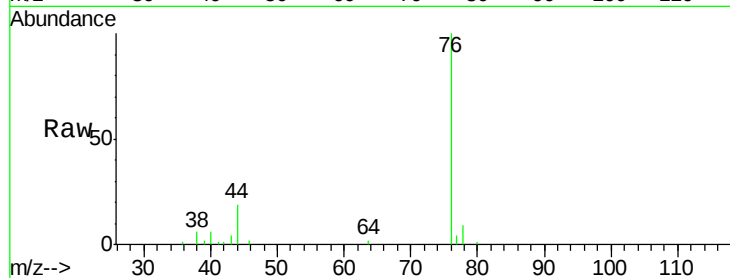
RO-COMP

Tot Ion: 76 Resp: 15343

Ion Ratio Lower Upper

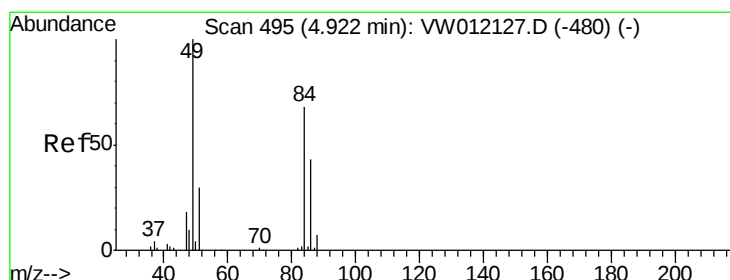
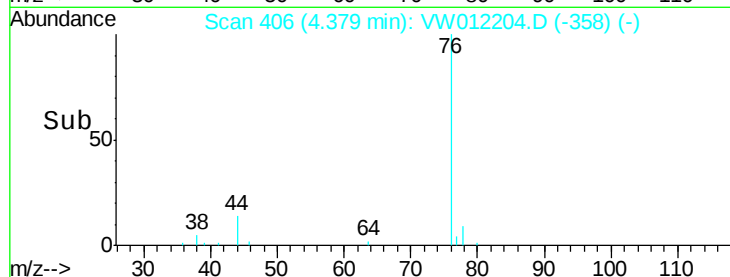
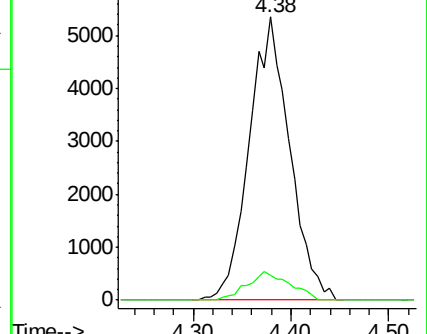
76 100

78 8.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 12.196 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

Tgt Ion: 84 Resp: 25982

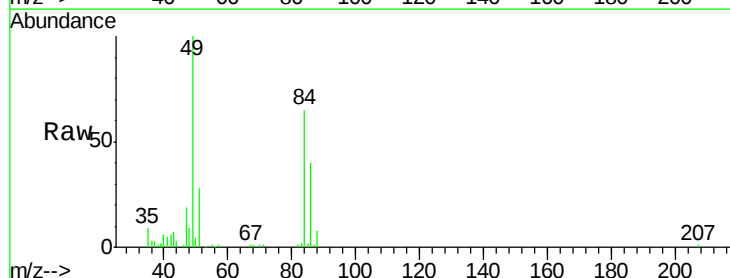
Ion Ratio Lower Upper

84 100

49 154.6 117.8 176.8

51 42.1 35.6 53.4

86 62.4 51.2 76.8

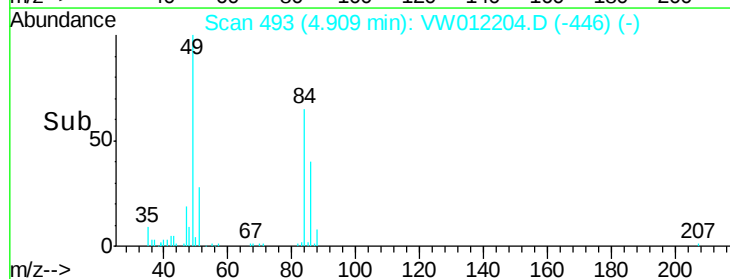
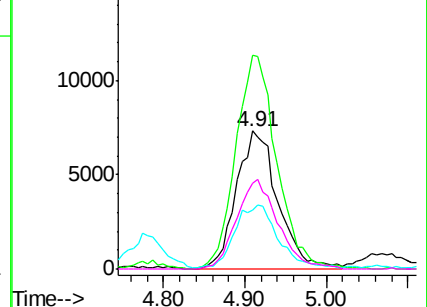


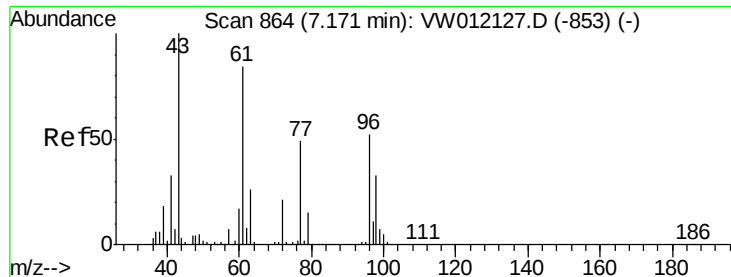
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 36.943 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

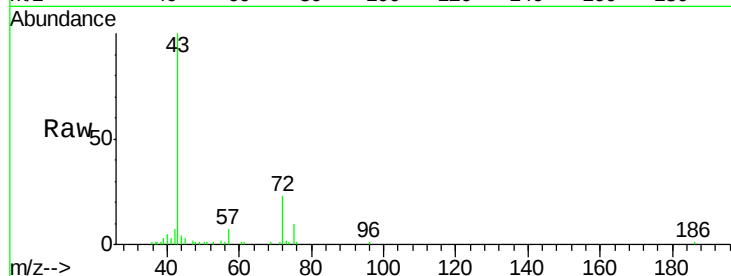
Instrument :
MSVOA_W
ClientSampled :
RO-COMP

Tot Ion: 43 Resp: 28289

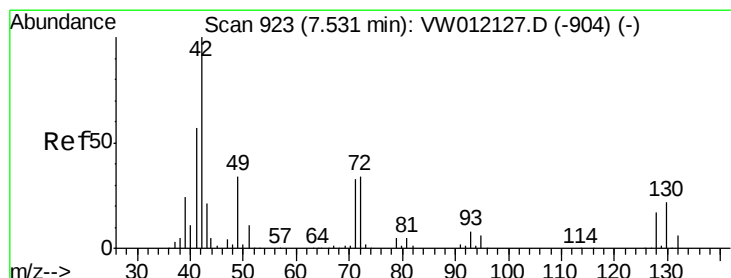
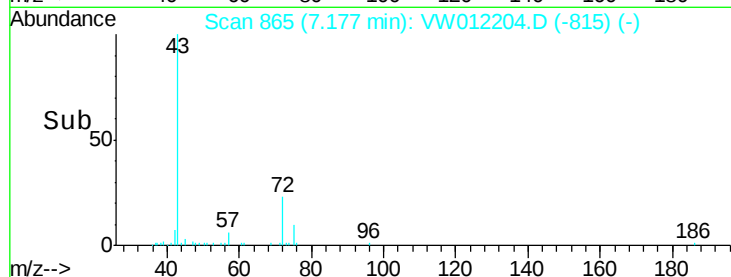
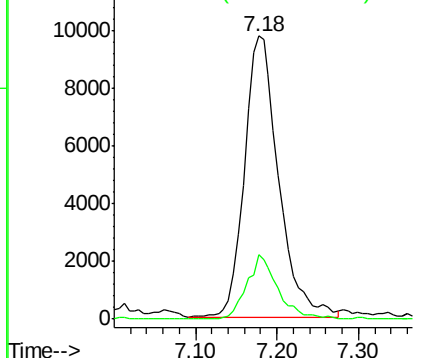
Ion Ratio Lower Upper

43 100

72 23.1 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 13.700 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

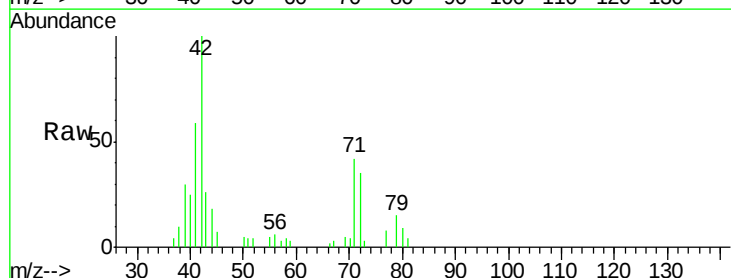
Tgt Ion: 42 Resp: 6294

Ion Ratio Lower Upper

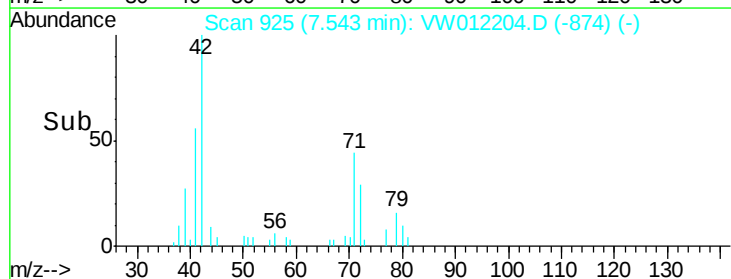
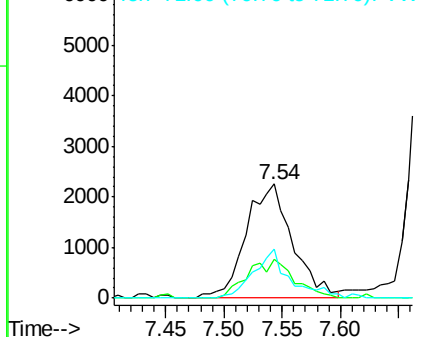
42 100

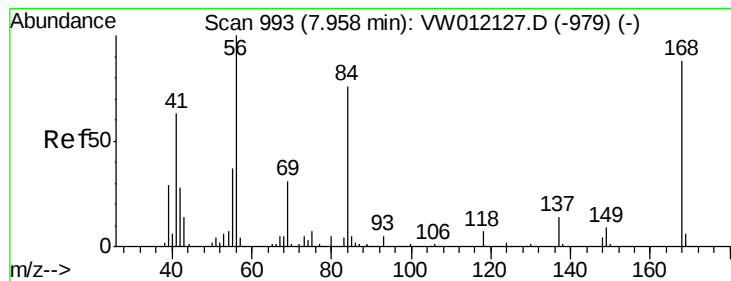
72 16.3 27.3 40.9#

71 33.2 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 14.656 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

Instrument :

MSVOA_W

ClientSampleId :

RO-COMP

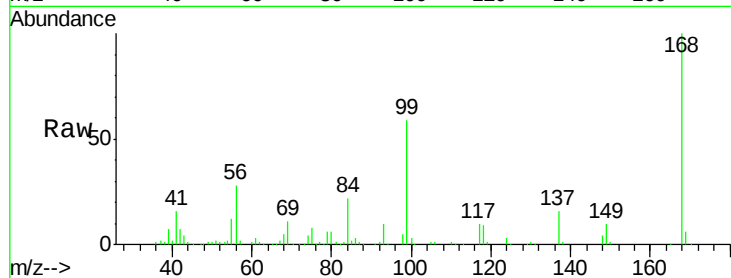
Tot Ion: 56 Resp: 58196

Ion Ratio Lower Upper

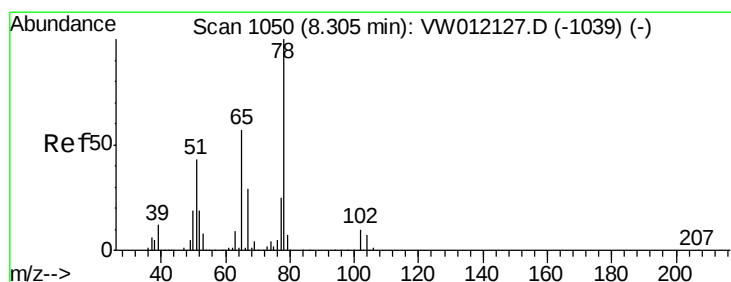
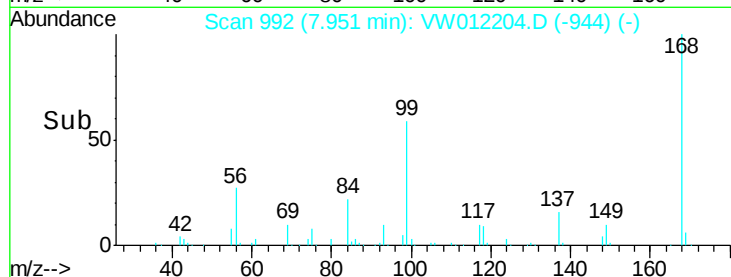
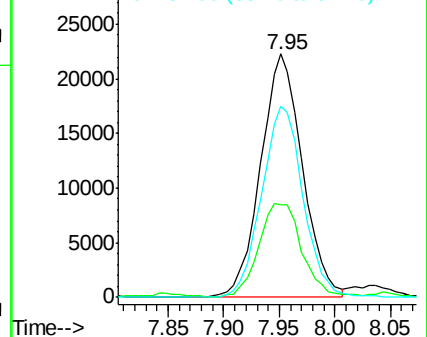
56 100

69 37.2 24.9 37.3

84 78.5 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: 52.549 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012204.D

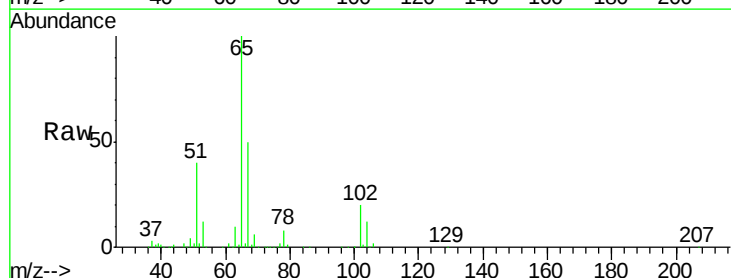
Acq: 27 Aug 2019 11:32

Tgt Ion: 65 Resp: 115844

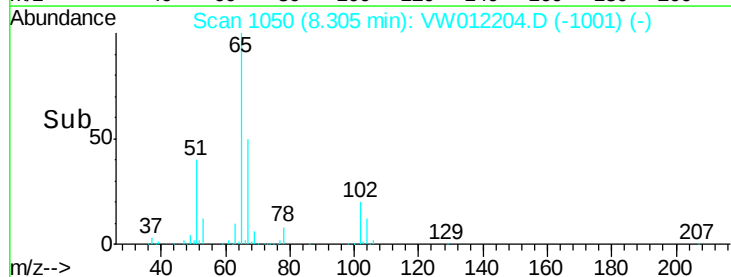
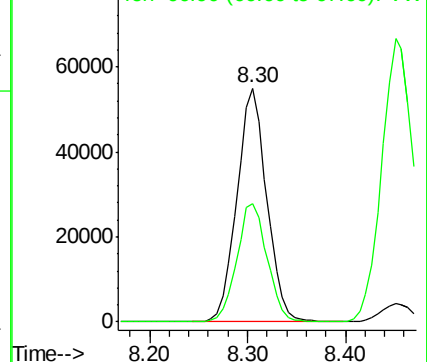
Ion Ratio Lower Upper

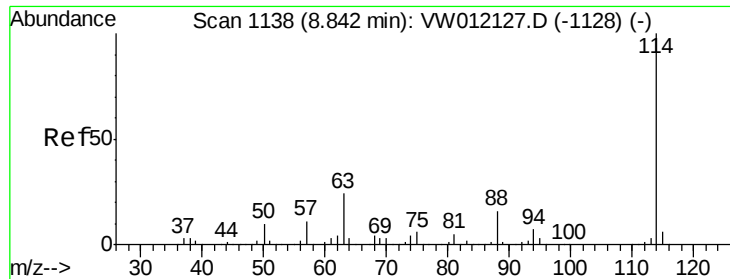
65 100

67 51.7 0.0 102.6



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

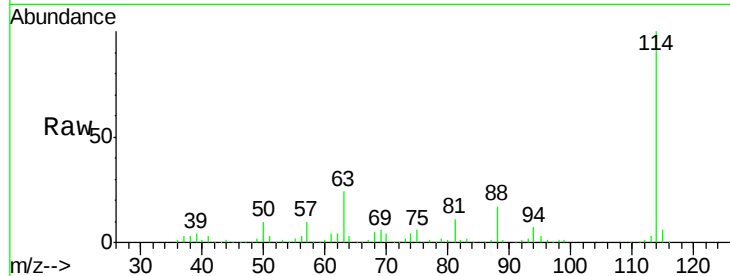




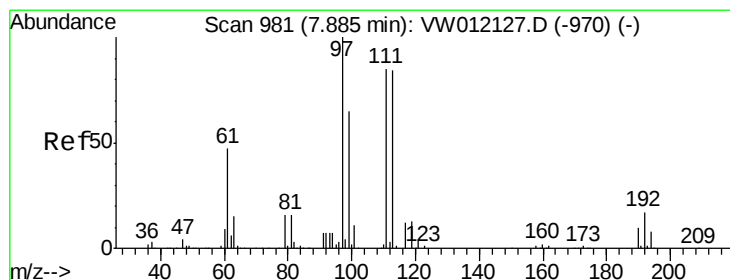
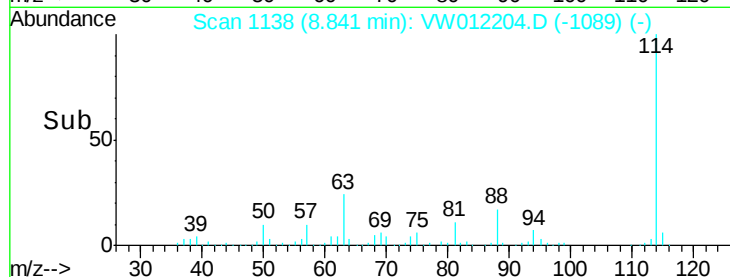
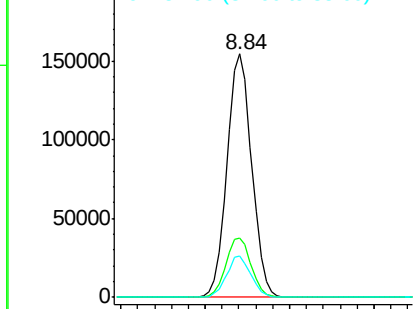
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012204.D
 Acq: 27 Aug 2019 11:32

Instrument :
 MSVOA_W
 ClientSampleId :
 RO-COMP

Tot Ion:114 Resp: 307060
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 48.6
 88 17.2 0.0 32.2

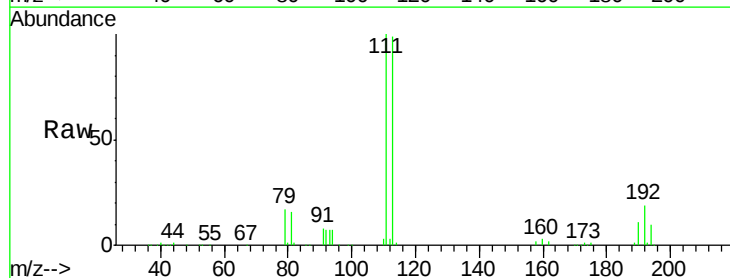


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

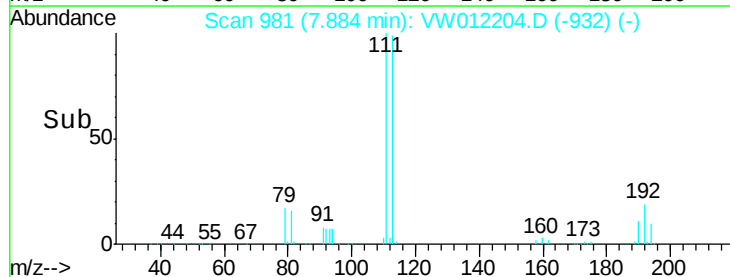
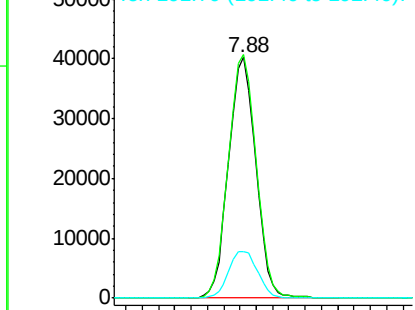


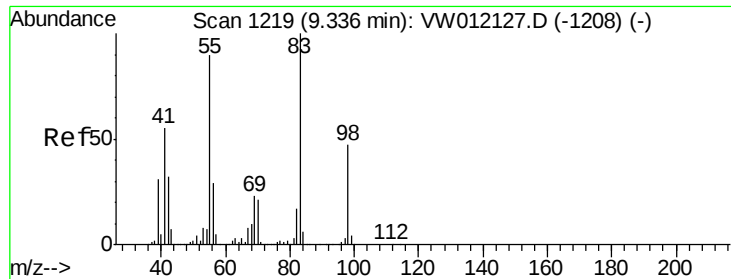
#35
 Dibromofluoromethane
 Concen: 50.751 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012204.D
 Acq: 27 Aug 2019 11:32

Tgt Ion:113 Resp: 93019
 Ion Ratio Lower Upper
 113 100
 111 103.1 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

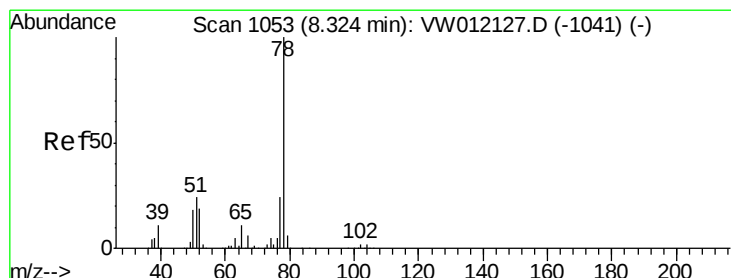
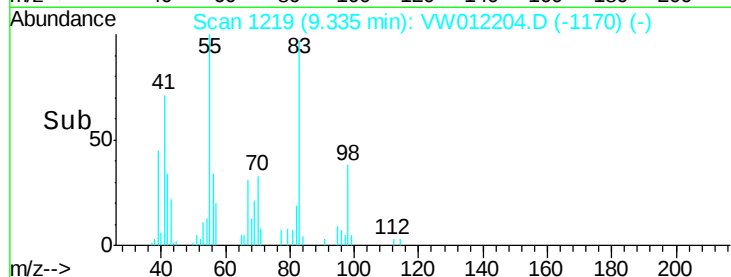
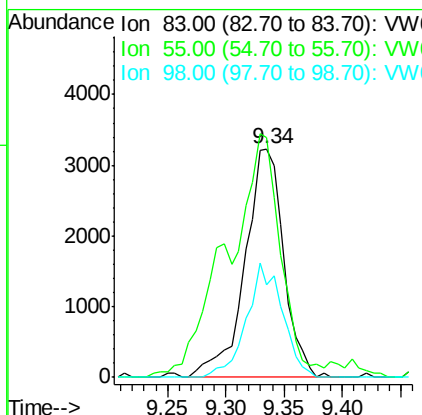
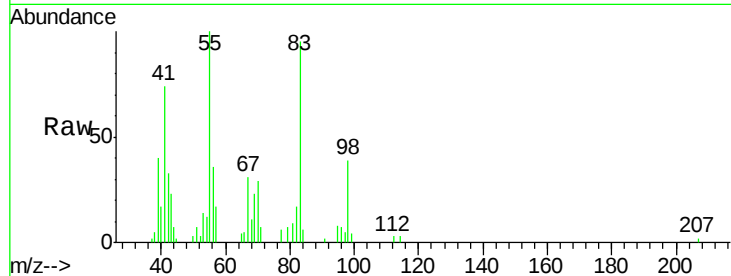




#39
Methvlcvclohexane
Concen: 2.097 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

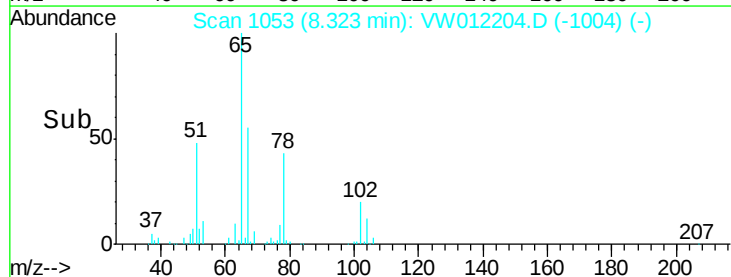
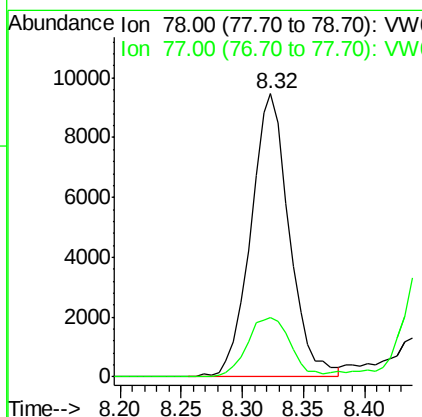
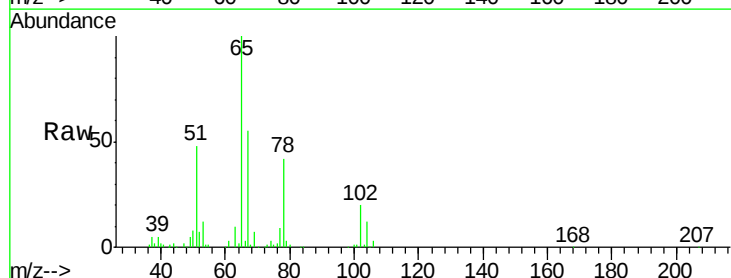
Instrument :
MSVOA_W
ClientSampleId :
RO-COMP

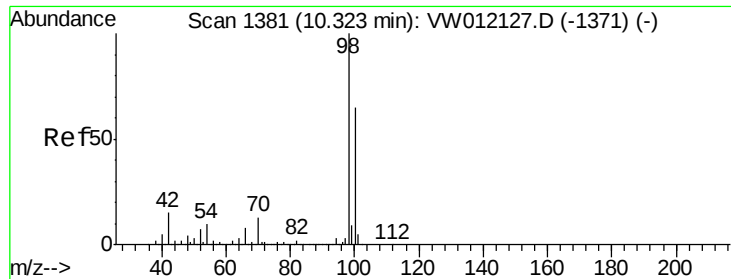
Tot Ion: 83 Resp: 7474
Ion Ratio Lower Upper
83 100
55 99.5 71.8 107.8
98 40.6 37.8 56.8



#40
Benzene
Concen: 2.394 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Tgt Ion: 78 Resp: 20741
Ion Ratio Lower Upper
78 100
77 20.9 19.5 29.3

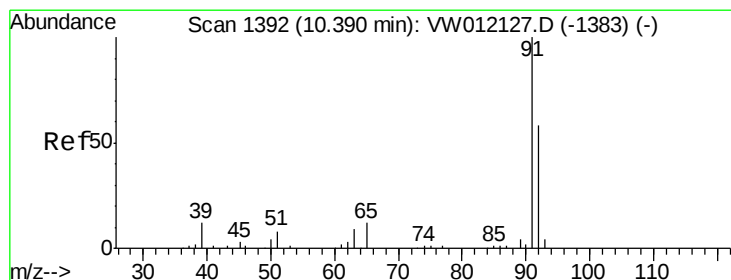
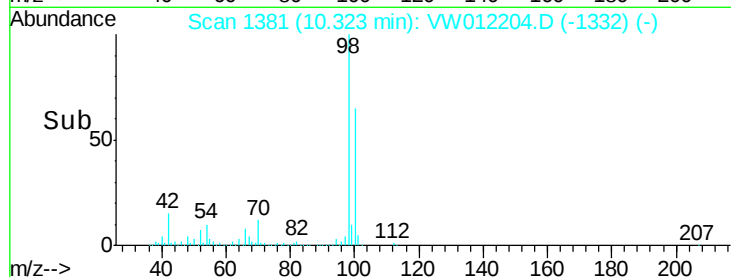
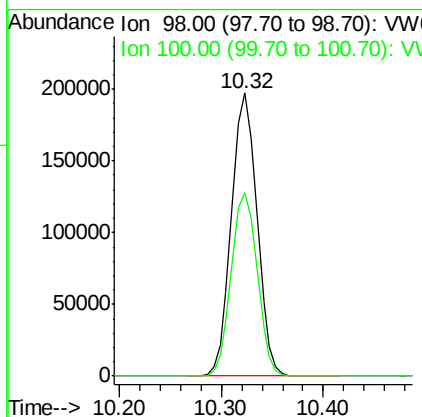
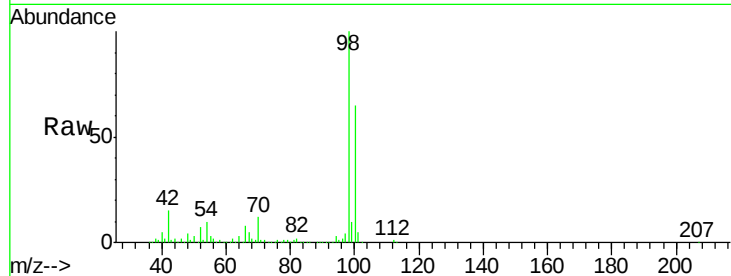




#50
Toluene-d8
Concen: 46.167 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

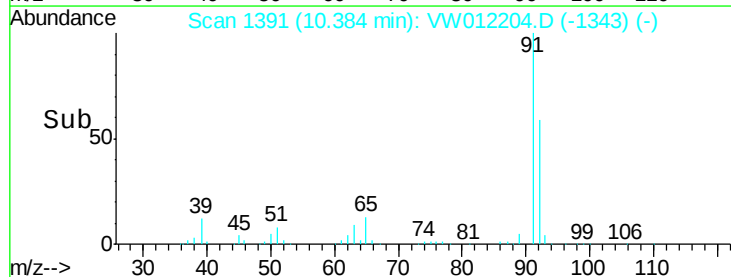
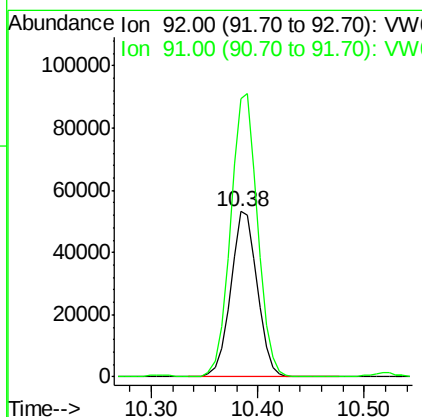
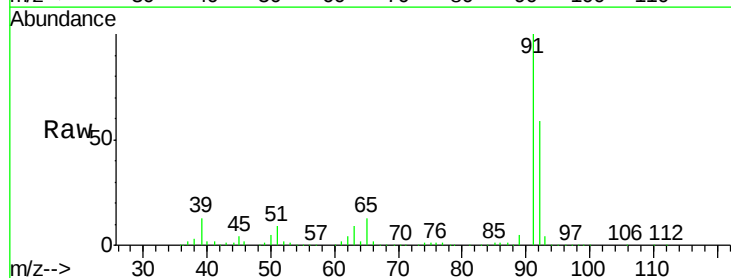
Instrument :
MSVOA_W
ClientSampleId :
RO-COMP

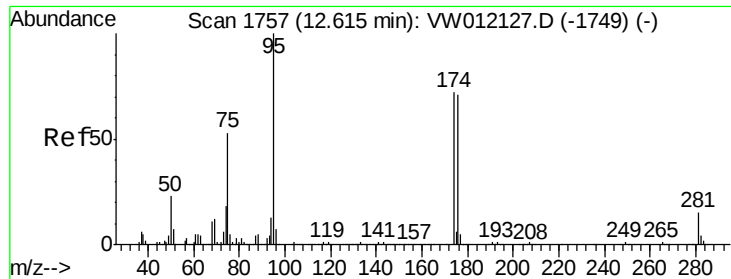
Tot Ion: 98 Resp: 343098
Ion Ratio Lower Upper
98 100
100 65.7 52.4 78.6



#52
Toluene
Concen: 17.882 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. -0.01 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Tgt Ion: 92 Resp: 93079
Ion Ratio Lower Upper
92 100
91 173.2 136.6 204.8





#62

4-Bromofluorobenzene

Concen: 34.259 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

Instrument :

MSVOA_W

ClientSampleId :

RO-COMP

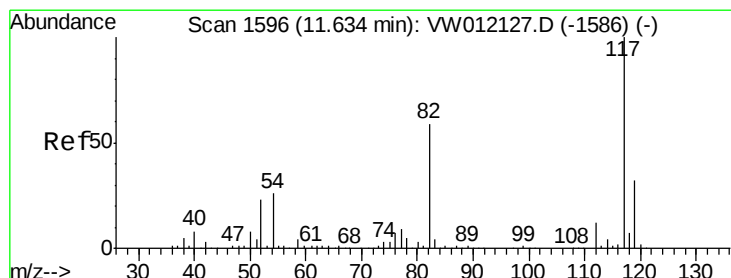
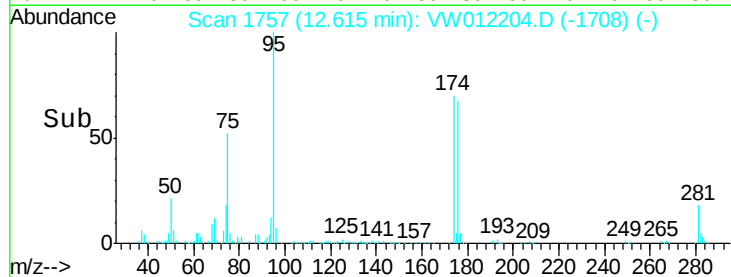
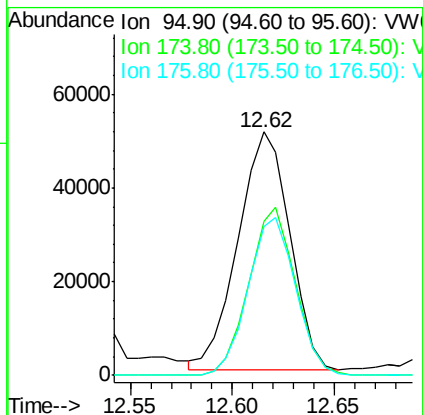
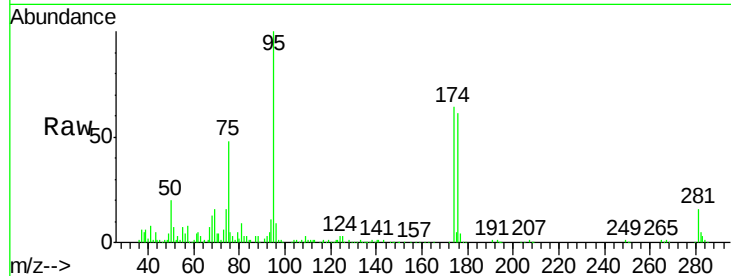
Tot Ion: 95 Resp: 89748

Ion Ratio Lower Upper

95 100

174 63.4 0.0 150.8

176 61.0 0.0 148.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

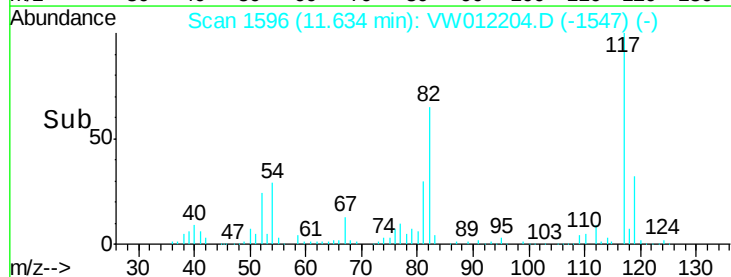
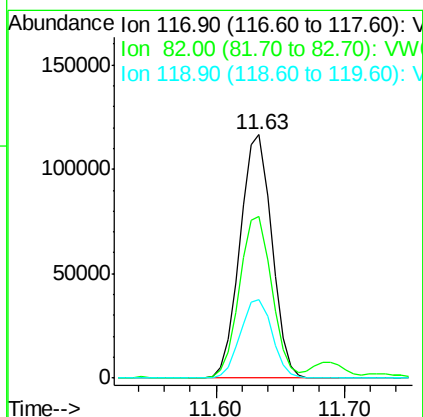
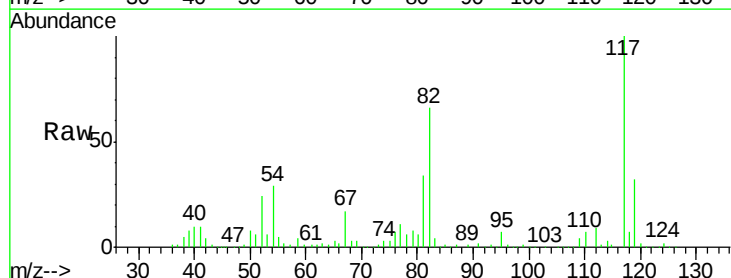
Tgt Ion: 117 Resp: 198963

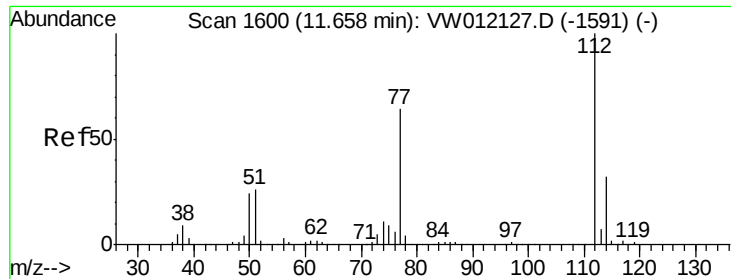
Ion Ratio Lower Upper

117 100

82 66.2 47.4 71.2

119 32.0 25.4 38.2

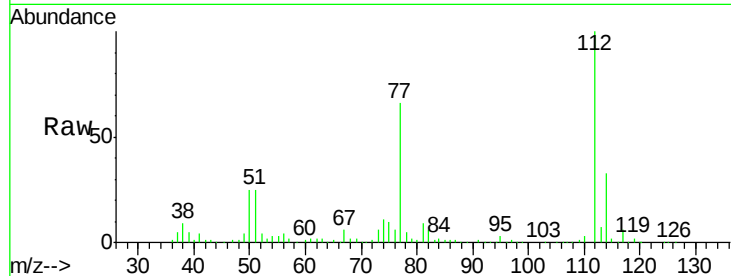




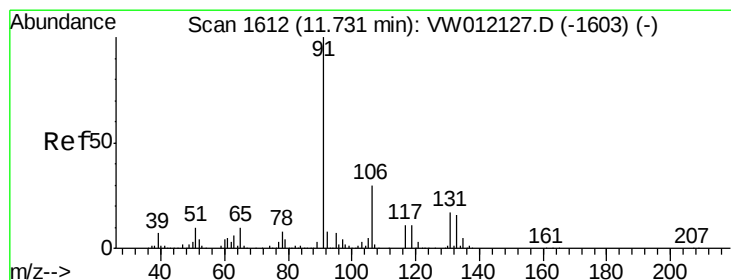
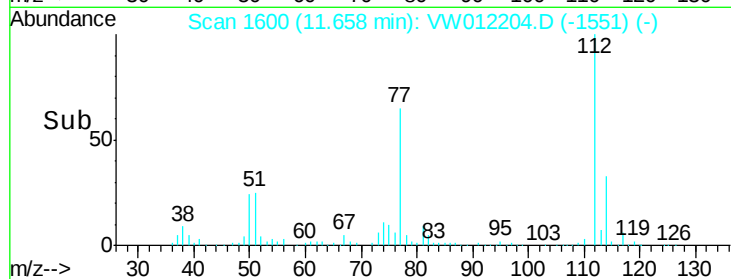
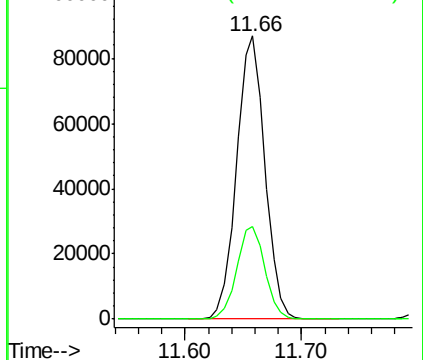
#65
Chlorobenzene
Concen: 37.571 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Instrument :
MSVOA_W
ClientSampleId :
RO-COMP

Tot Ion:112 Resp: 147195
Ion Ratio Lower Upper
112 100
114 32.7 25.8 38.6

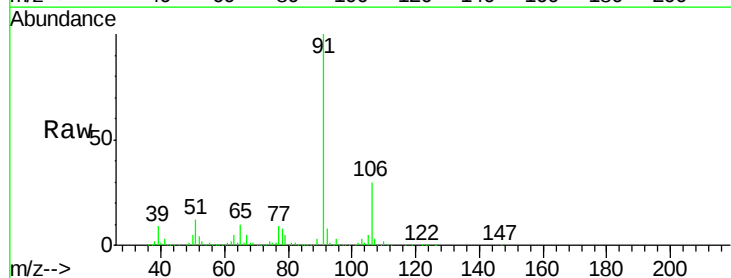


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

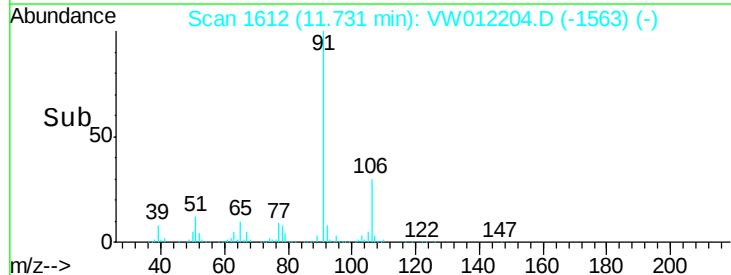
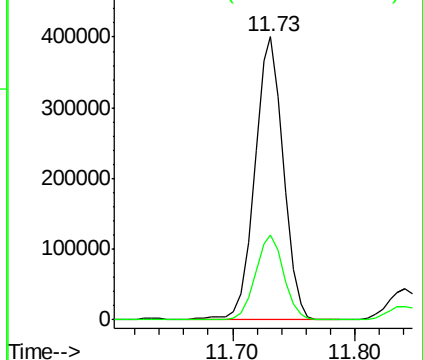


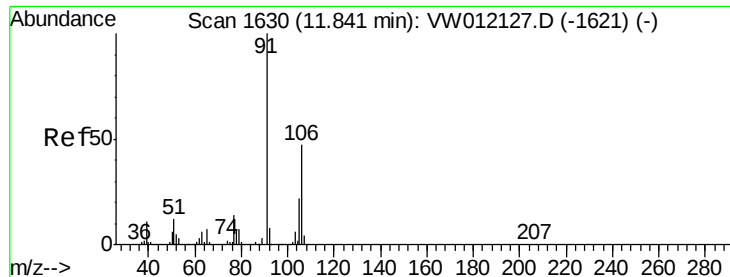
#67
Ethyl Benzene
Concen: 85.760 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Tgt Ion: 91 Resp: 647218
Ion Ratio Lower Upper
91 100
106 29.9 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 106.00 (105.70 to 106.70): V

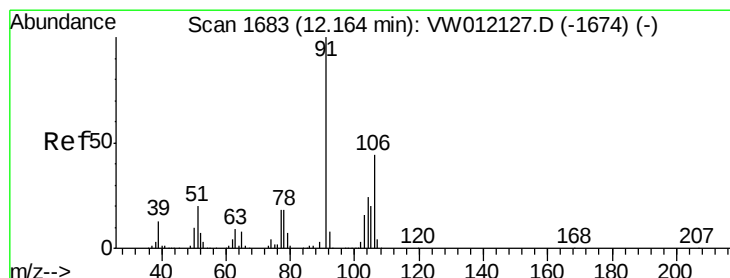
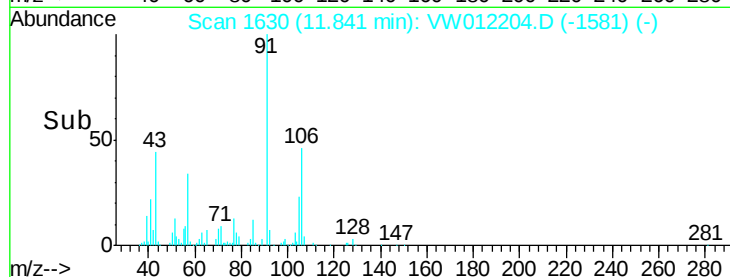
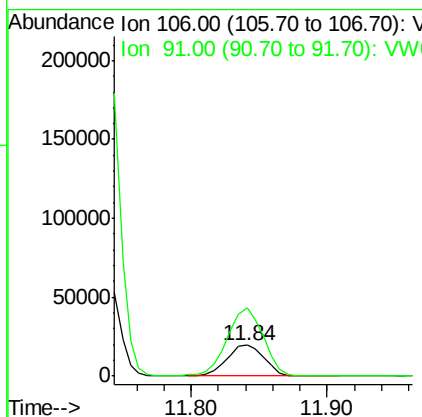
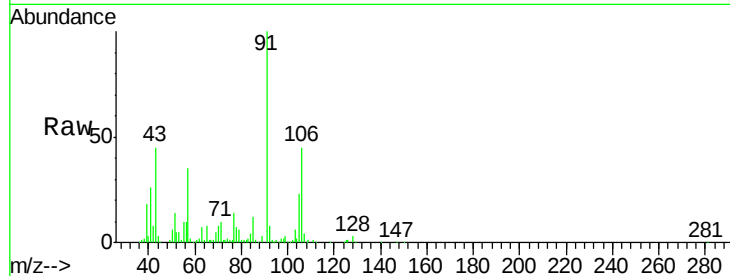




#68
m/p-Xylenes
Concen: 13.775 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

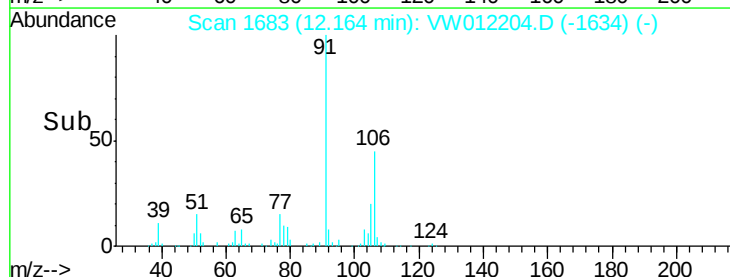
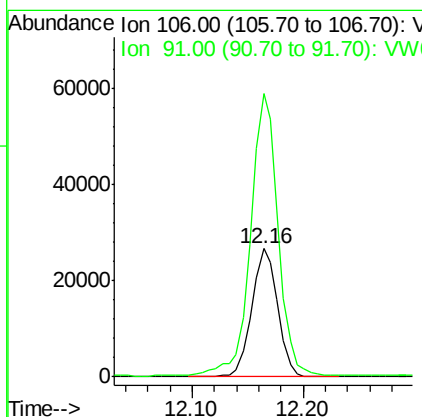
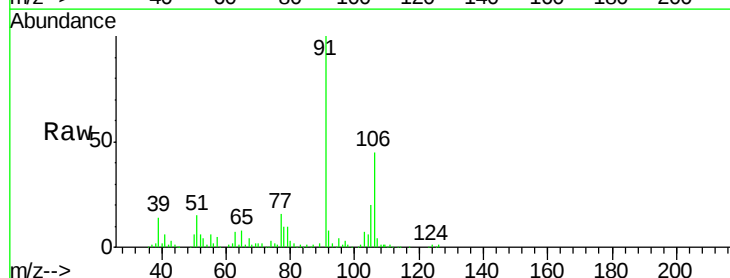
Instrument :
MSVOA_W
ClientSampleId :
RO-COMP

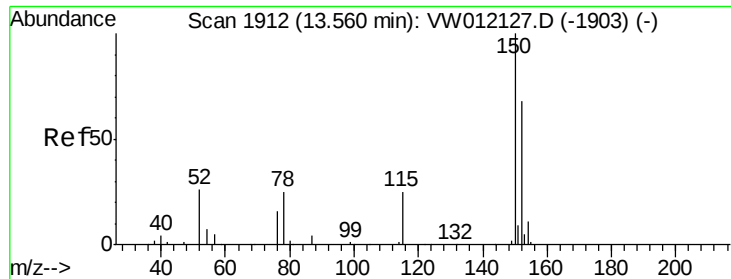
Tot Ion:106 Resp: 37447
Ion Ratio Lower Upper
106 100
91 209.1 169.5 254.3



#69
o-Xylene
Concen: 17.127 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Tgt Ion:106 Resp: 43092
Ion Ratio Lower Upper
106 100
91 237.1 111.6 334.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

Instrument :

MSVOA_W

ClientSampleId :

RO-COMP

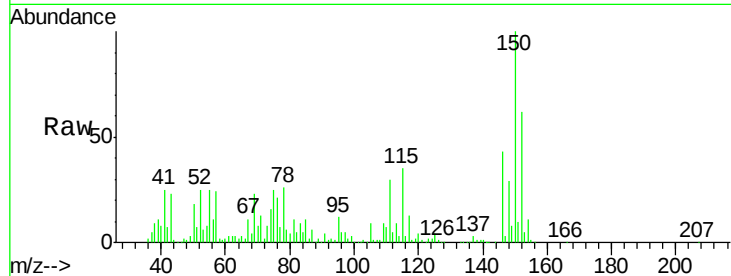
Tot Ion:152 Resp: 47082

Ion Ratio Lower Upper

152 100

115 0.0 30.1 90.3#

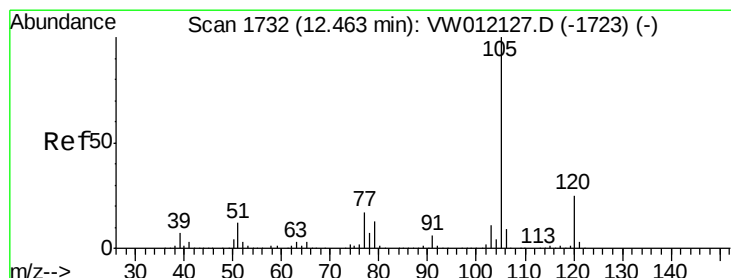
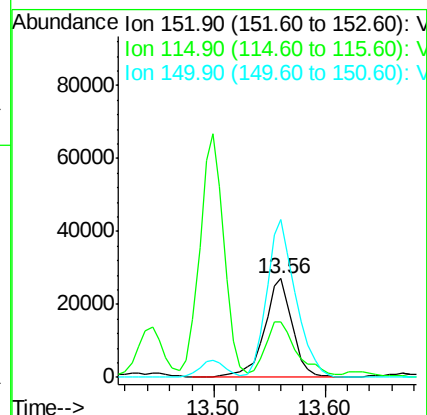
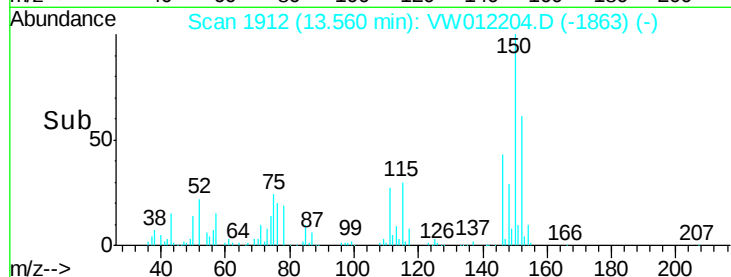
150 166.4 0.0 345.8



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



#73

Isopropylbenzene

Concen: 882.252 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012204.D

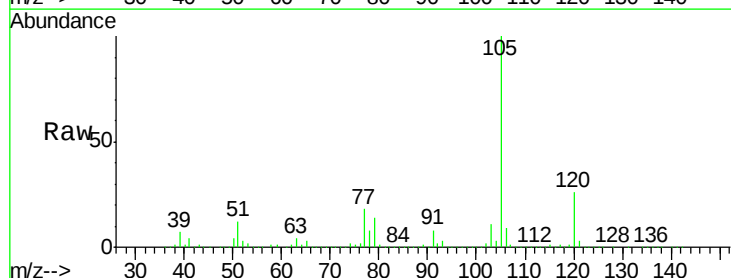
Acq: 27 Aug 2019 11:32

Tgt Ion:105 Resp: 3112515

Ion Ratio Lower Upper

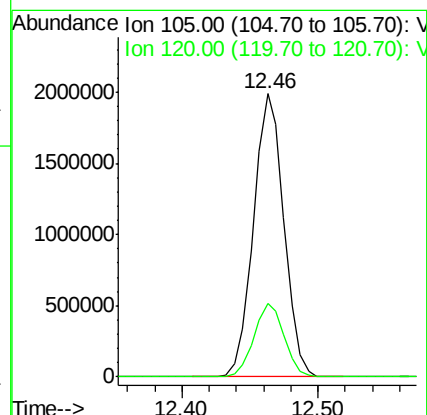
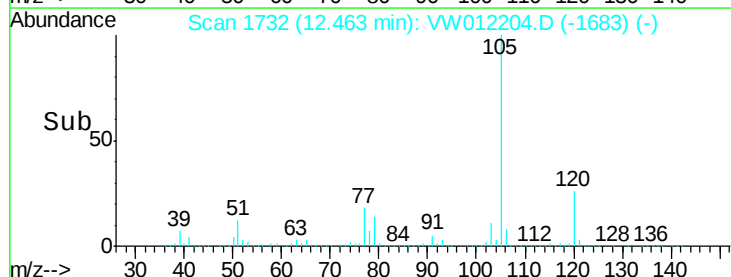
105 100

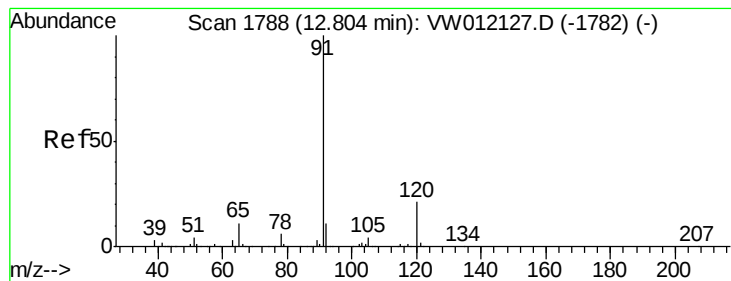
120 25.8 12.5 37.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 56.582 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW012204.D

Acq: 27 Aug 2019 11:32

Instrument :

MSVOA_W

ClientSampleId :

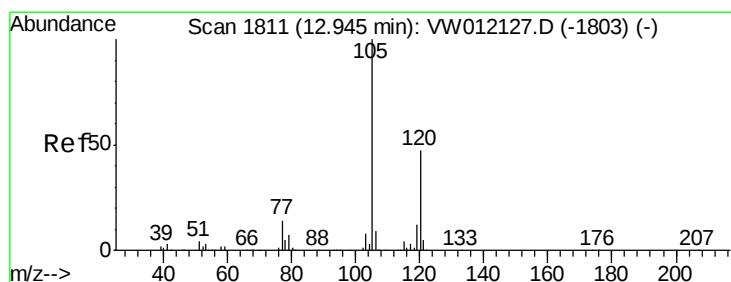
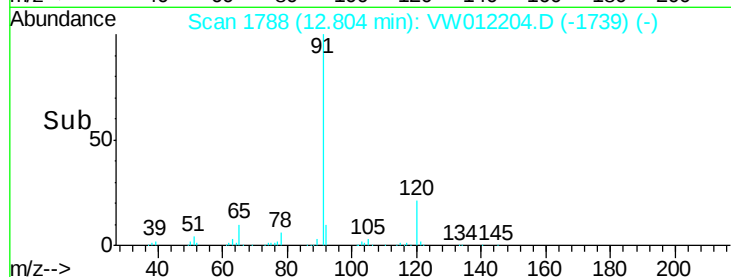
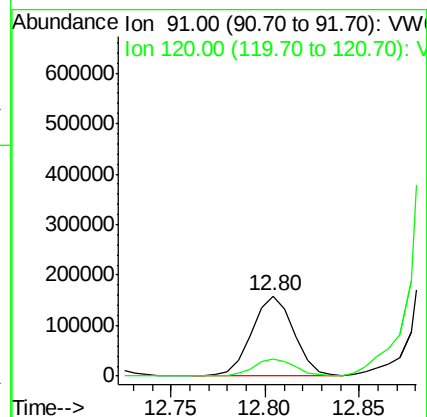
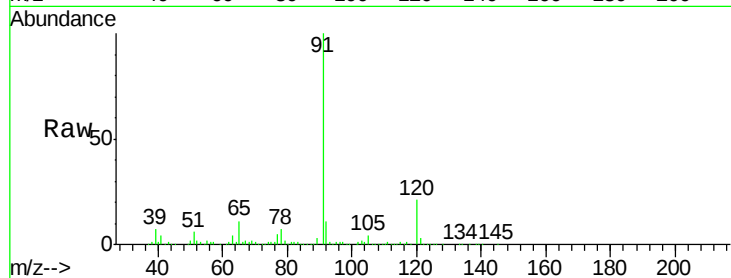
RO-COMP

Tot Ion: 91 Resp: 243693

Ion Ratio Lower Upper

91 100

120 0.0 10.5 31.6#



#80

1,3,5-Trimethylbenzene

Concen: 4325.075 ug/l

RT: 12.90 min Scan# 1804

Delta R.T. -0.04 min

Lab File: VW012204.D

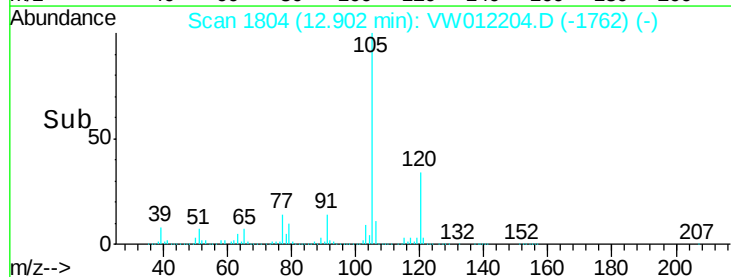
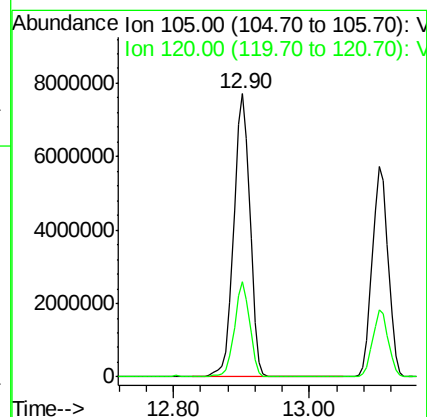
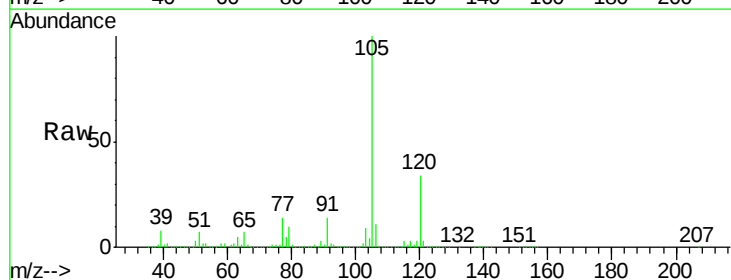
Acq: 27 Aug 2019 11:32

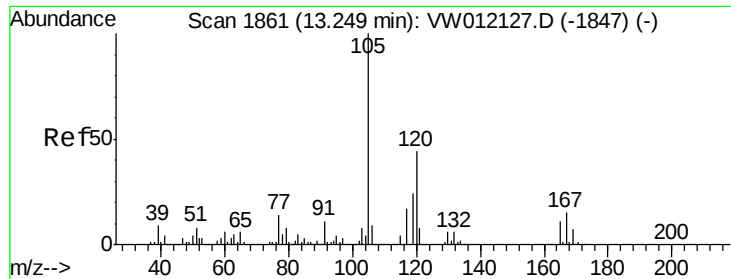
Tgt Ion:105 Resp:12749996

Ion Ratio Lower Upper

105 100

120 31.6 24.0 72.0

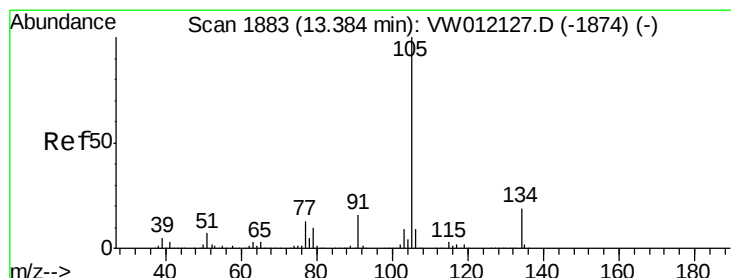
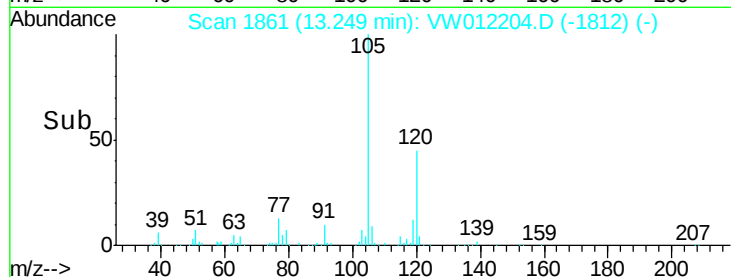
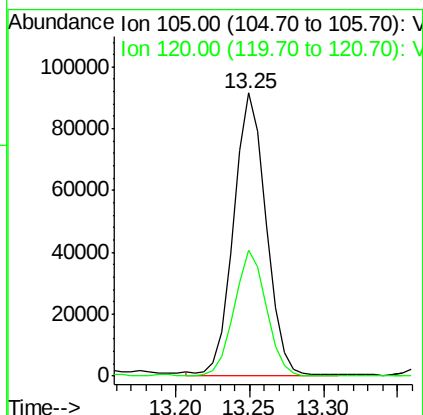
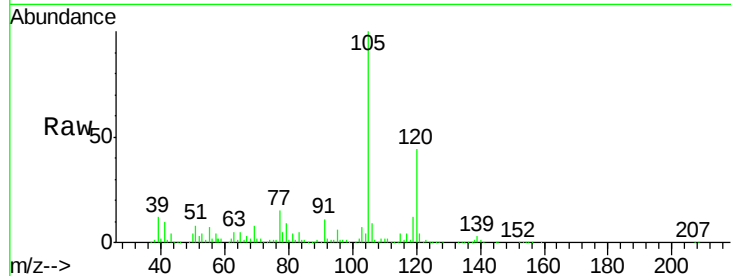




#84
 1,2,4-Trimethylbenzene
 Concen: 47.967 ug/l m
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW012204.D
 Acq: 27 Aug 2019 11:32

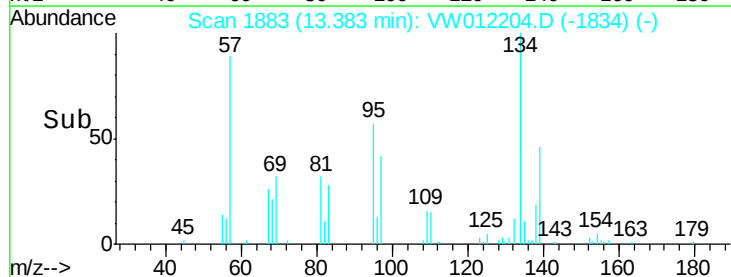
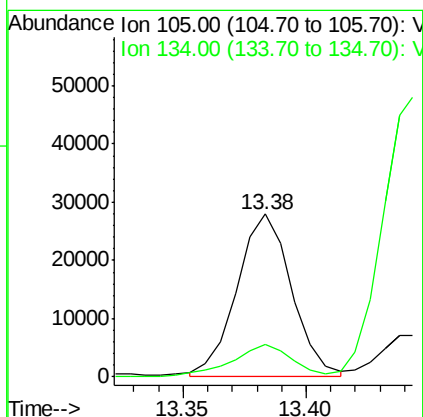
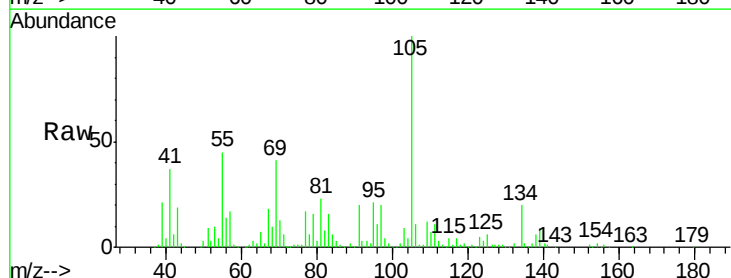
Instrument :
 MSVOA_W
 ClientSampleId :
 RO-COMP

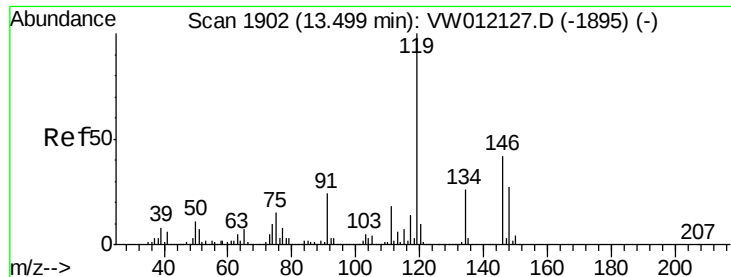
Tot Ion:105 Resp: 142043
 Ion Ratio Lower Upper
 105 100
 120 2038.6 21.9 65.7#



#85
 sec-Butylbenzene
 Concen: 12.168 ug/l m
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW012204.D
 Acq: 27 Aug 2019 11:32

Tgt Ion:105 Resp: 43533
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#

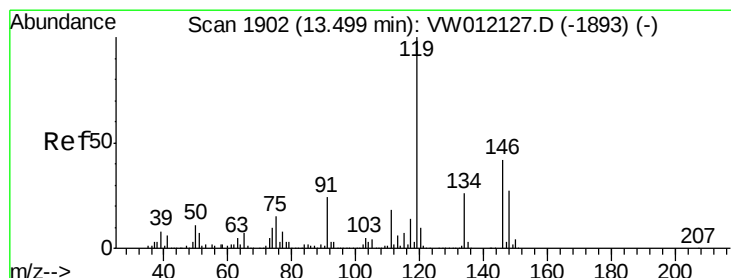
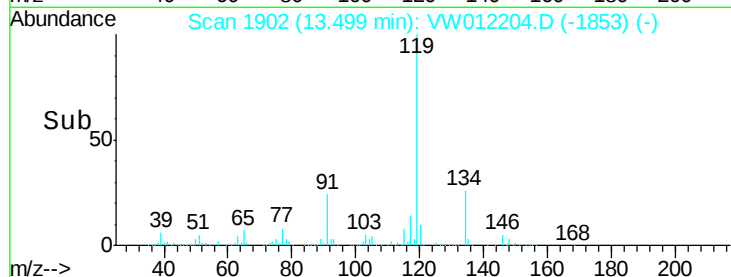
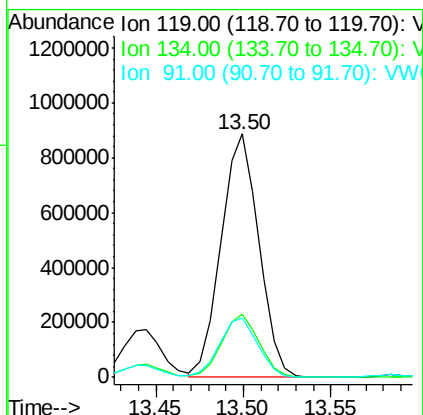
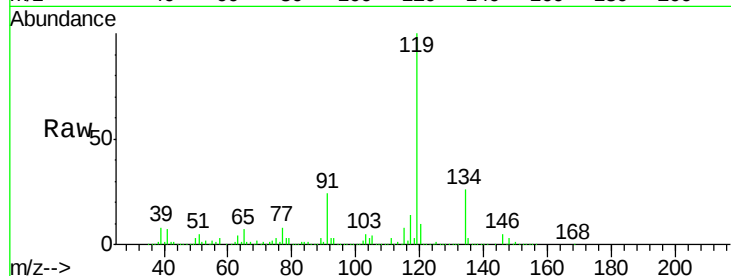




#86
p-Isopropyltoluene
Concen: 415.605 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

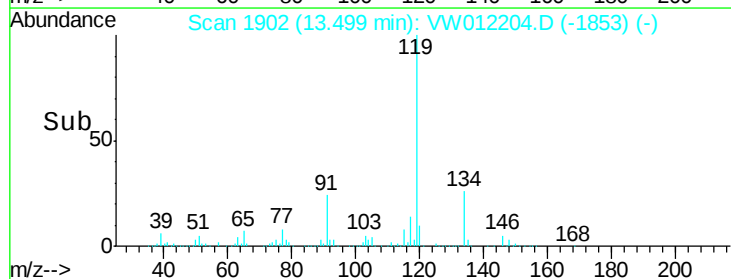
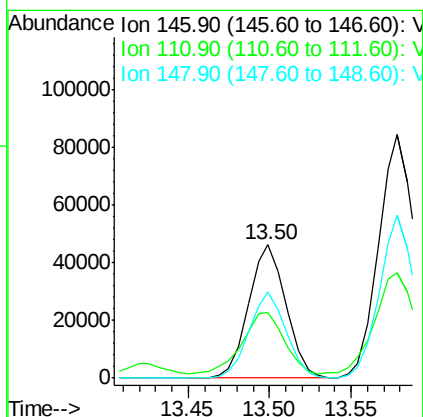
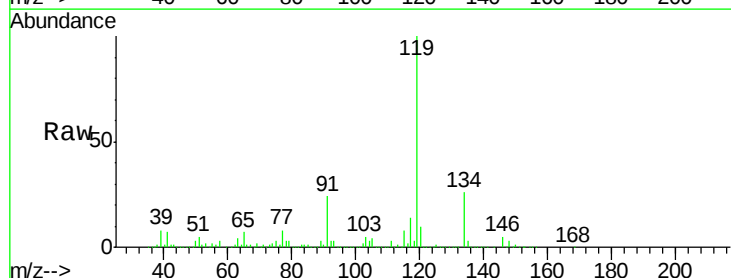
Instrument :
MSVOA_W
ClientSampleId :
RO-COMP

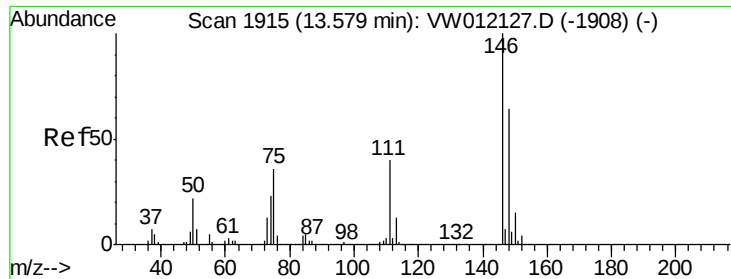
Tot Ion:119 Resp: 1327858
Ion Ratio Lower Upper
119 100
134 25.7 12.8 38.3
91 24.4 12.3 36.9



#87
1,3-Dichlorobenzene
Concen: 49.254 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW012204.D
Acq: 27 Aug 2019 11:32

Tgt Ion:146 Resp: 73528
Ion Ratio Lower Upper
146 100
111 52.5 20.9 62.7
148 63.5 32.2 96.6

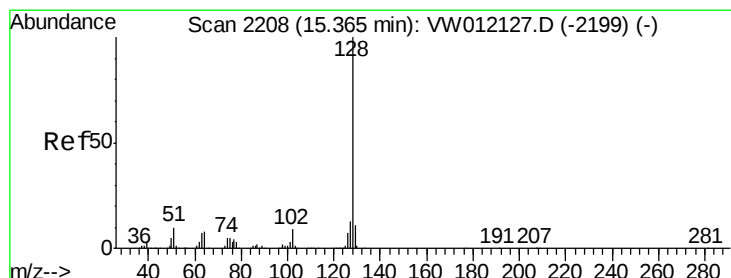
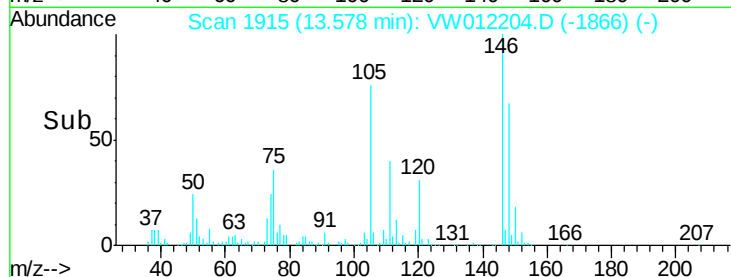
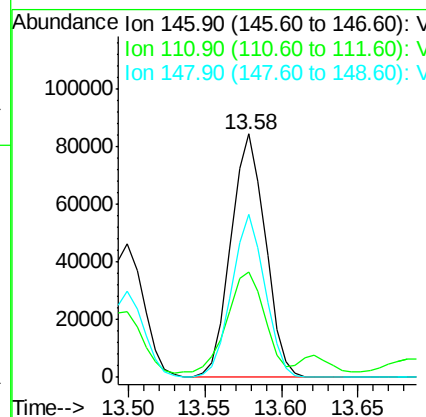
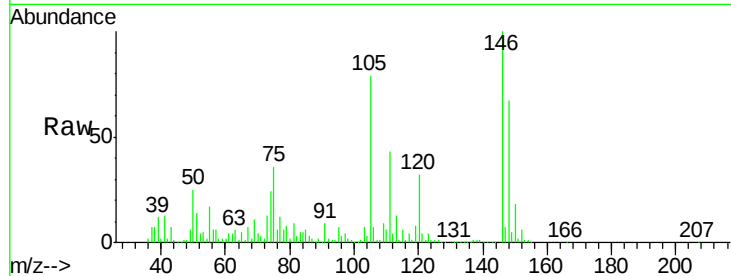




#88
 1,4-Dichlorobenzene
 Concen: 89.329 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW012204.D
 Acq: 27 Aug 2019 11:32

Instrument :
 MSVOA_W
 ClientSampleId :
 RO-COMP

Tot Ion:146 Resp: 132411
 Ion Ratio Lower Upper
 146 100
 111 45.1 20.0 60.0
 148 65.1 32.1 96.3



#95
 Naphthalene
 Concen: 96.176 ug/l
 RT: 15.36 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VW012204.D
 Acq: 27 Aug 2019 11:32

Tgt Ion:128 Resp: 178558
 Ion Ratio Lower Upper
 128 100
 127 15.6 10.7 16.1
 129 11.8 8.7 13.1

