

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112018\  
 Data File : VW006971.D  
 Acq On : 20 Nov 2018 03:47  
 Operator : SY/AP  
 Sample : J5993-06  
 Misc : 5.02G/5ML/MSVOA W/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 20180930-AMENDED-WCC-3-COMP

Quant Time: Nov 20 06:51:40 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 17 04:45:18 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 98345    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 163439   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 136133   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 53816    | 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   | 52859    | 48.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.46% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 266      | 0.28  | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 0.56%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 196831   | 47.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.72% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 69304    | 43.22 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.44% |          |

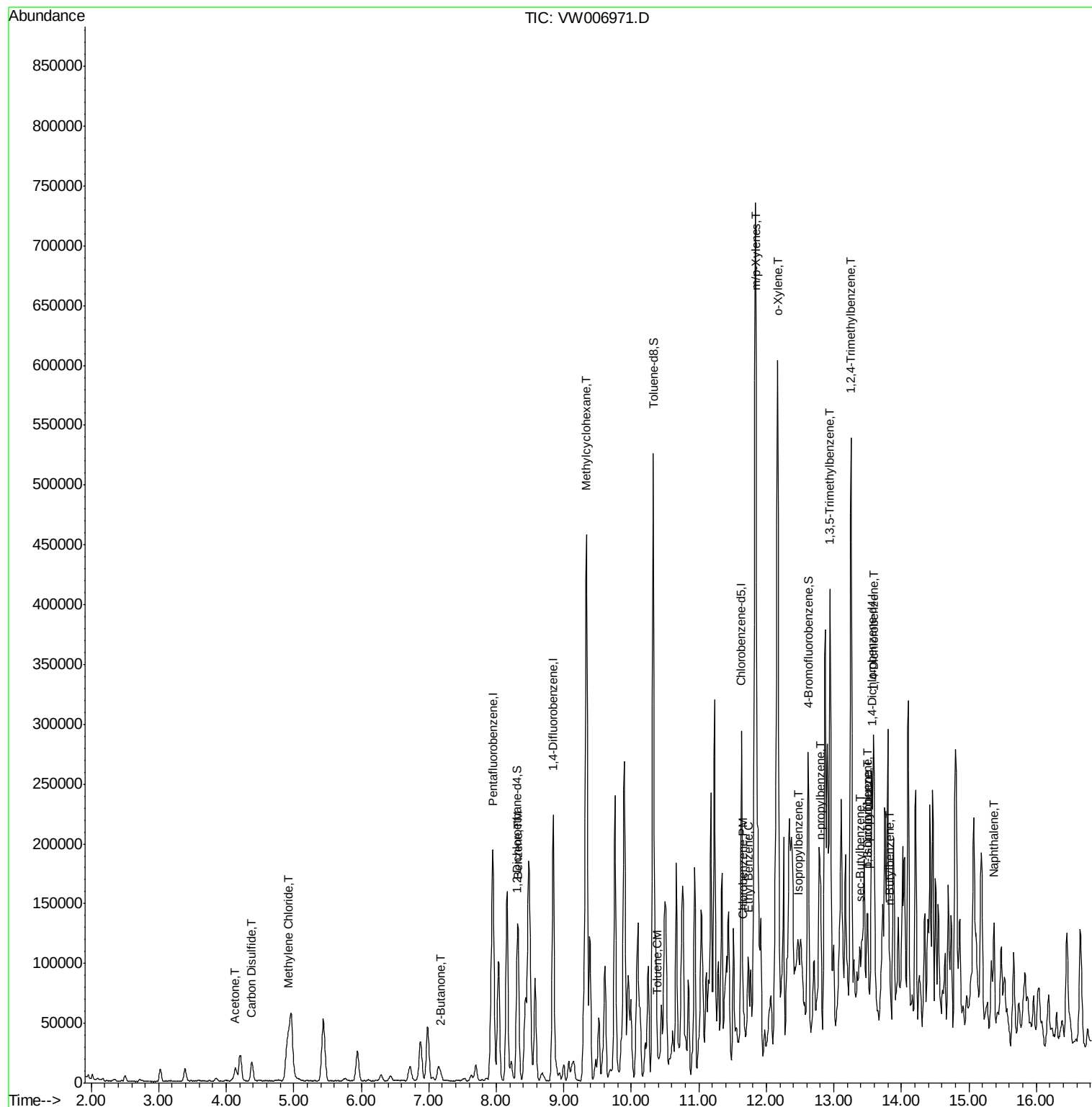
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 4.14  | 43   | 20829    | 124.247 | ug/l   | 97     |
| 17) Carbon Disulfide       | 4.38  | 76   | 31790    | 11.090  | ug/l   | 99     |
| 20) Methylene Chloride     | 4.92  | 84   | 17554    | 12.686  | ug/l   | 98     |
| 25) 2-Butanone             | 7.18  | 43   | 7135     | 25.627  | ug/l # | 86     |
| 39) Methylcyclohexane      | 9.34  | 83   | 164415   | 85.086  | ug/l   | 94     |
| 40) Benzene                | 8.32  | 78   | 92058    | 20.920  | ug/l   | 100    |
| 52) Toluene                | 10.39 | 92   | 6504     | 2.209   | ug/l   | 97     |
| 65) Chlorobenzene          | 11.66 | 112  | 8442     | 2.937   | ug/l   | 96     |
| 67) Ethyl Benzene          | 11.73 | 91   | 28412    | 5.482   | ug/l   | 100    |
| 68) m/p-Xylenes            | 11.84 | 106  | 223665   | 110.828 | ug/l   | 99     |
| 69) o-Xylene               | 12.17 | 106  | 145847   | 76.144  | ug/l   | 99     |
| 73) Isopropylbenzene       | 12.47 | 105  | 27108    | 6.360   | ug/l   | 98     |
| 78) n-propylbenzene        | 12.81 | 91   | 73062    | 14.267  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 12.94 | 105  | 124606   | 33.954  | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene | 13.26 | 105  | 270933   | 73.488  | ug/l   | 98     |
| 85) sec-Butylbenzene       | 13.39 | 105  | 24051    | 5.409   | ug/l # | 61     |
| 86) p-Isopropyltoluene     | 13.50 | 119  | 33365    | 8.585   | ug/l   | 98     |
| 87) 1,3-Dichlorobenzene    | 13.51 | 146  | 2410     | 1.305   | ug/l # | 72     |
| 88) 1,4-Dichlorobenzene    | 13.58 | 146  | 12680    | 6.888   | ug/l # | 81     |
| 89) n-Butylbenzene         | 13.83 | 91   | 24071    | 6.543   | ug/l # | 71     |
| 95) Naphthalene            | 15.38 | 128  | 72332    | 36.124  | ug/l   | 99     |

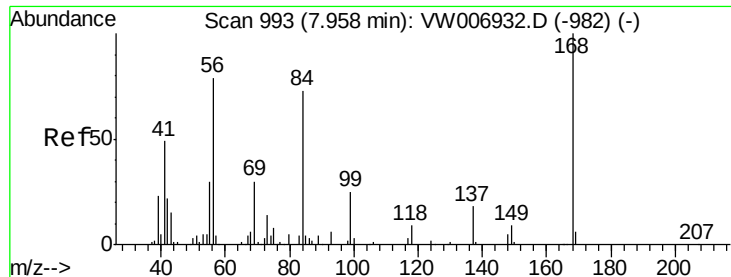
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW112018\  
Data File : VW006971.D  
Acq On : 20 Nov 2018 03:47  
Operator : SY/AP  
Sample : J5993-06  
Misc : 5.02G/5ML/MSVOA W/SOIL  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

Quant Time: Nov 20 06:51:40 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W111718S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 17 04:45:18 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

Instrument :

MSVOA\_W

ClientSampleId :

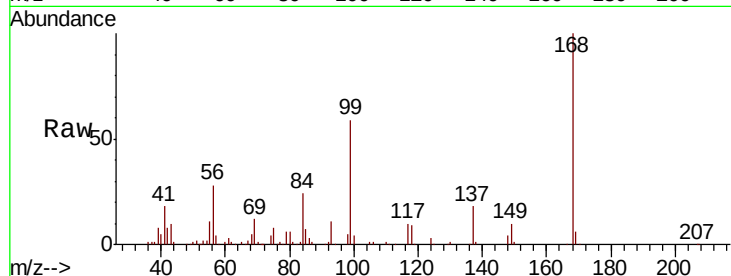
20180930-AMENDED-WCC-3-COMP

Tot Ion:168 Resp: 98345

Ion Ratio Lower Upper

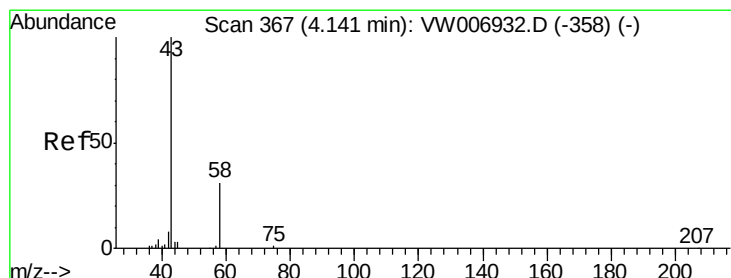
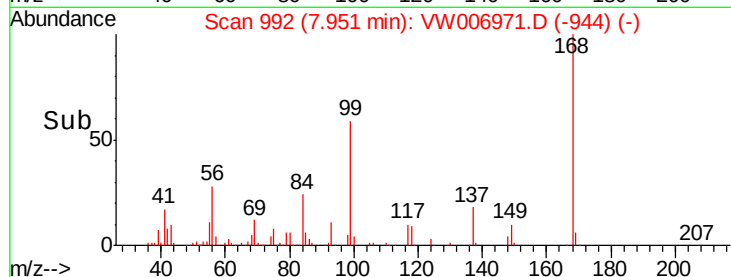
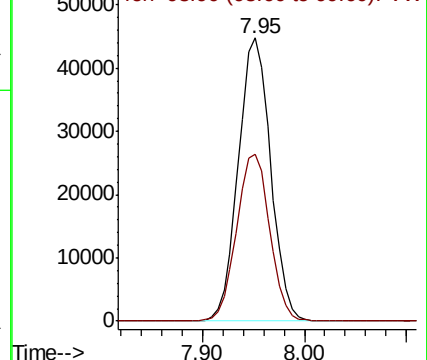
168 100

99 59.1 49.3 73.9



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 124.247 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW006971.D

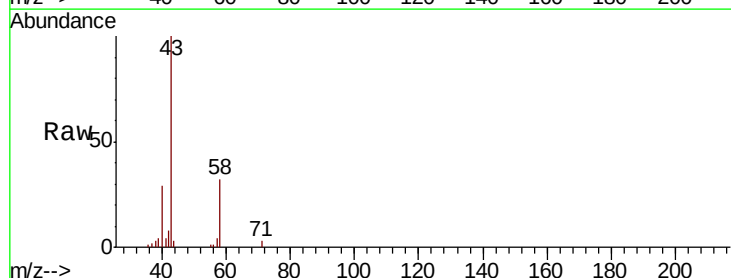
Acq: 20 Nov 2018 03:47

Tgt Ion: 43 Resp: 20829

Ion Ratio Lower Upper

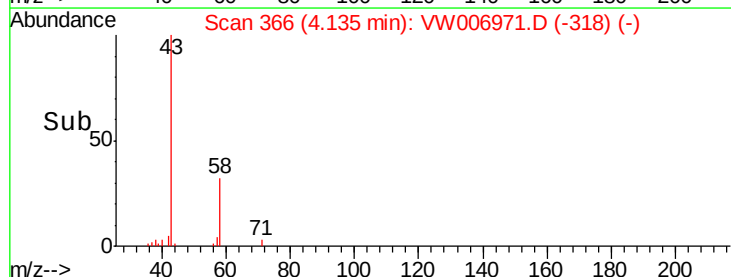
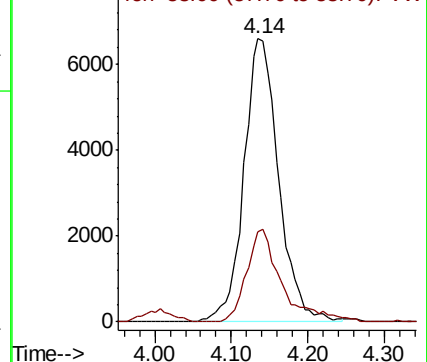
43 100

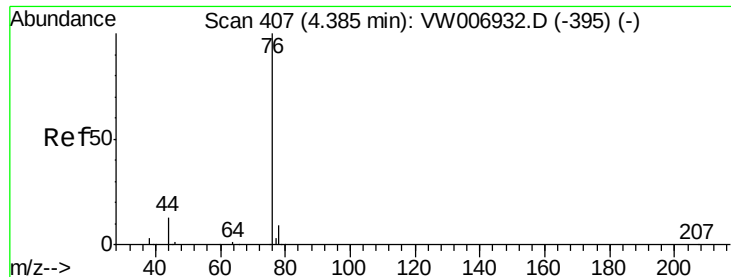
58 31.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 11.090 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

Instrument :

MSVOA\_W

ClientSampleId :

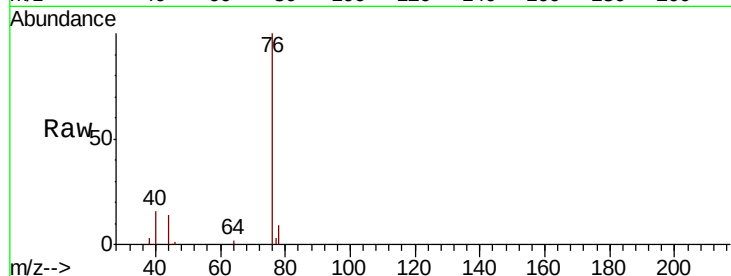
20180930-AMENDED-WCC-3-COMP

Tot Ion: 76 Resp: 31790

Ion Ratio Lower Upper

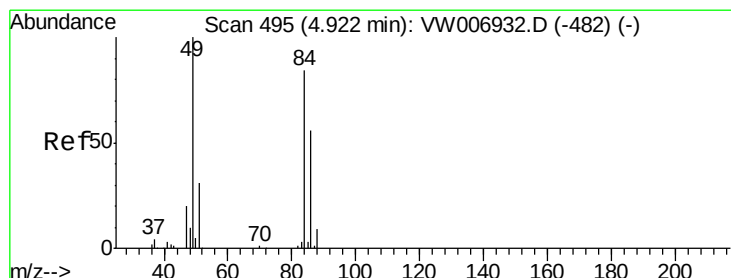
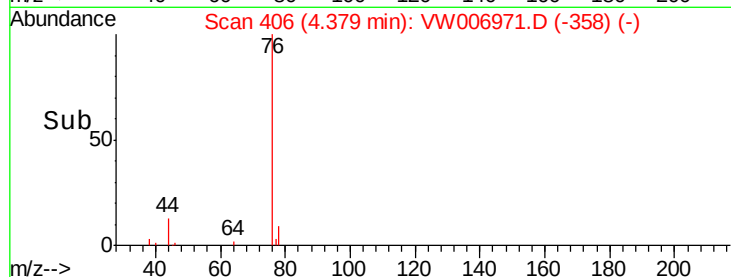
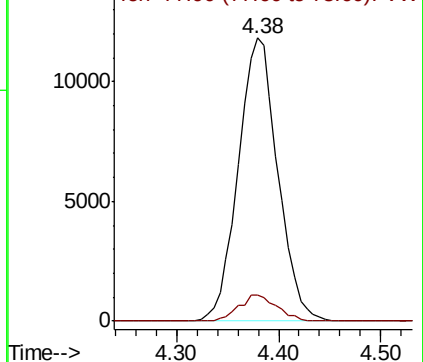
76 100

78 9.4 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 12.686 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

Tgt Ion: 84 Resp: 17554

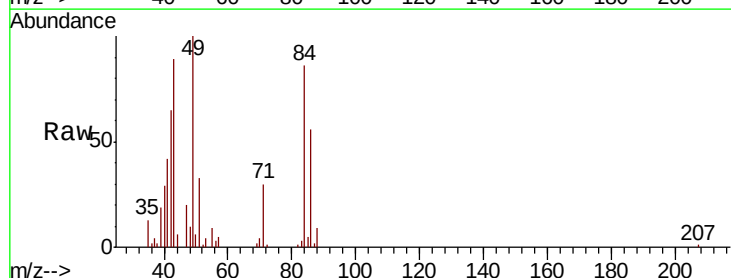
Ion Ratio Lower Upper

84 100

49 116.9 95.4 143.2

51 38.2 29.5 44.3

86 65.5 53.4 80.2

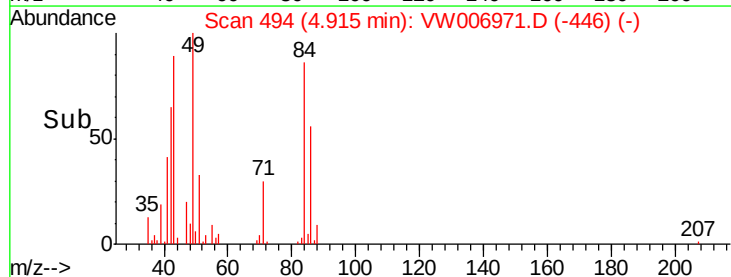
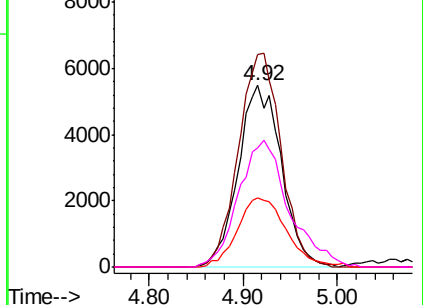


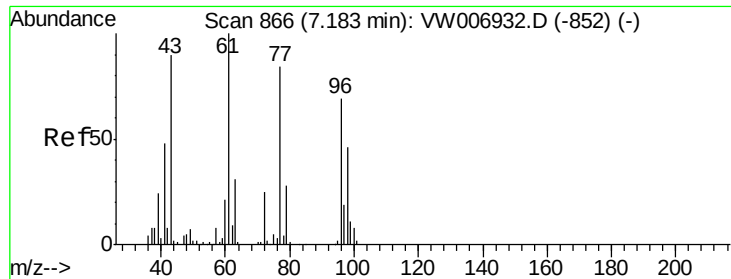
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 25.627 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.01 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

Instrument :

MSVOA\_W

ClientSampleId :

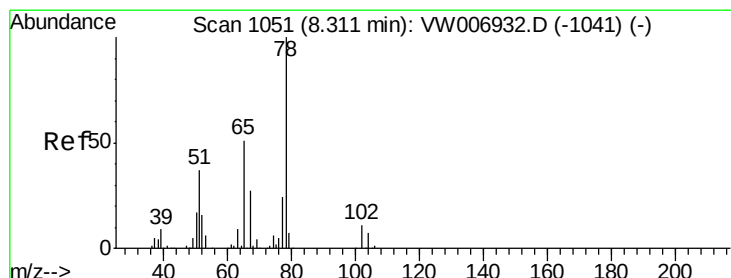
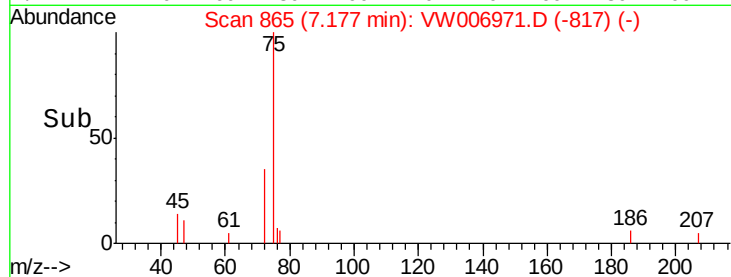
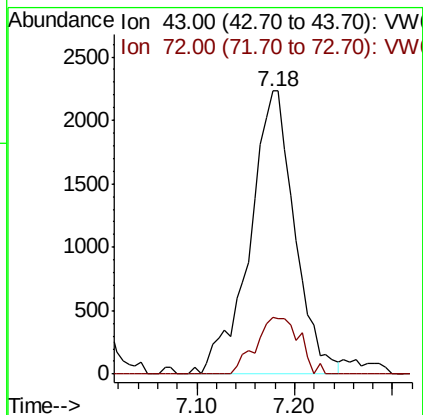
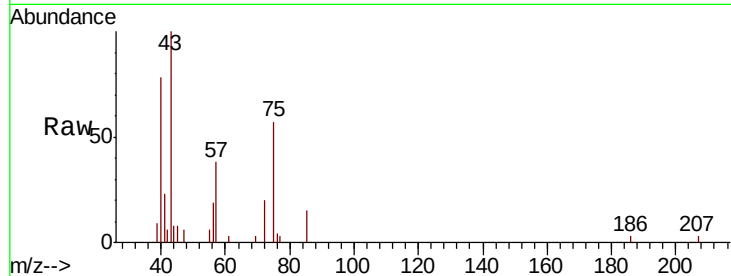
20180930-AMENDED-WCC-3-COMP

Tot Ion: 43 Resp: 7135

Ion Ratio Lower Upper

43 100

72 20.0 22.1 33.1#



#33

1,2-Dichloroethane-d4

Concen: 48.229 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW006971.D

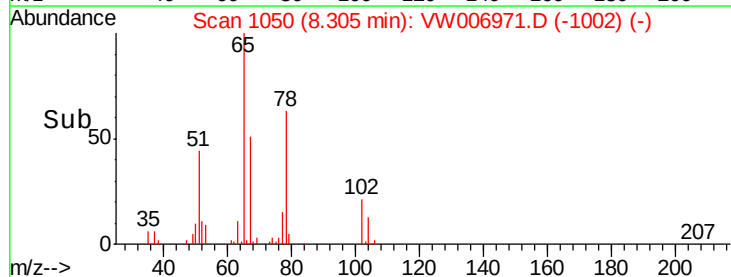
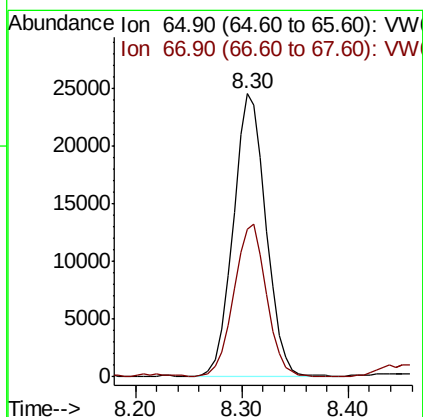
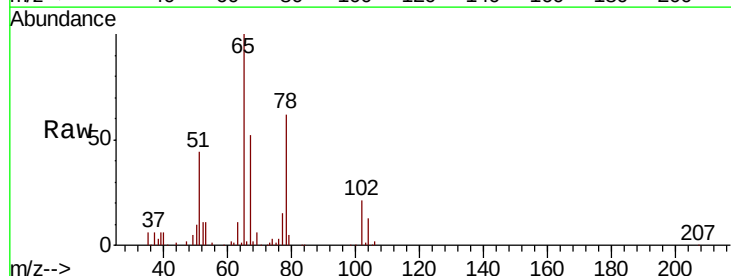
Acq: 20 Nov 2018 03:47

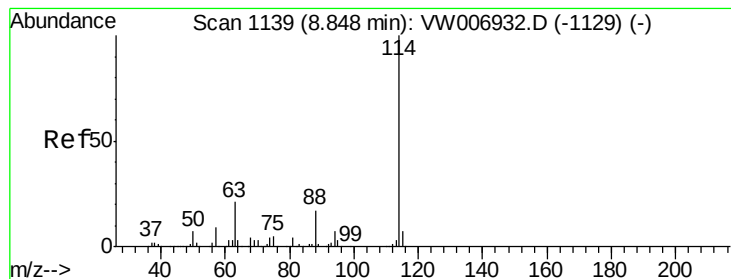
Tgt Ion: 65 Resp: 52859

Ion Ratio Lower Upper

65 100

67 54.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

Instrument :

MSVOA\_W

ClientSampleId :

20180930-AMENDED-WCC-3-COMP

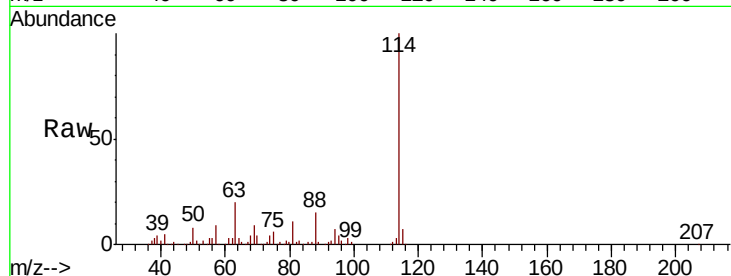
Tot Ion:114 Resp: 163439

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.2

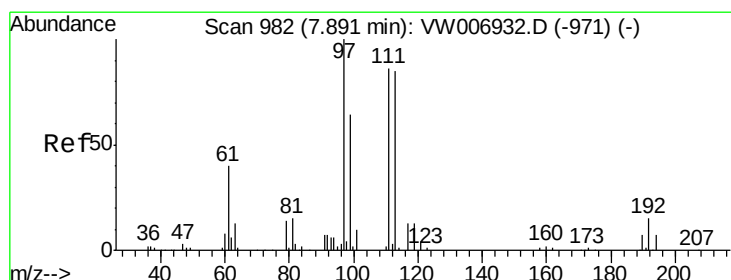
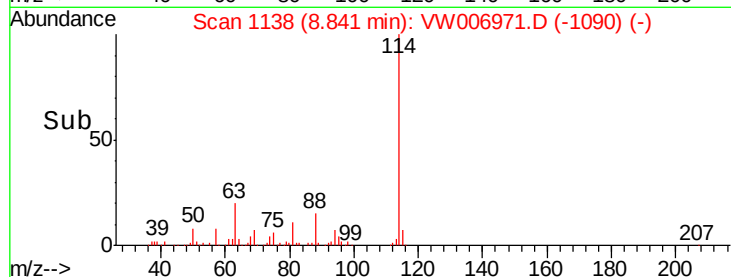
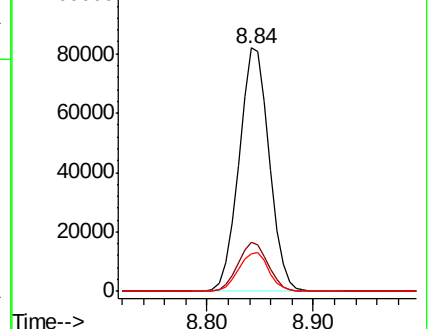
88 15.4 0.0 33.4



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: 0.278 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

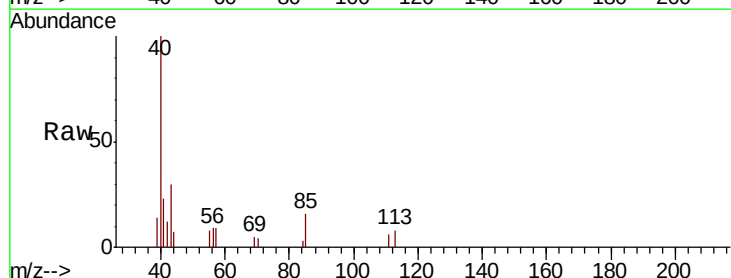
Tgt Ion:113 Resp: 266

Ion Ratio Lower Upper

113 100

111 106.0 81.7 122.5

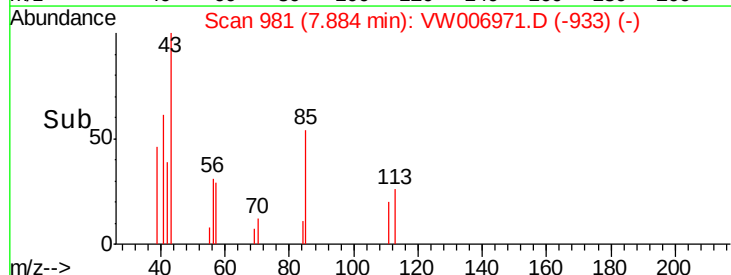
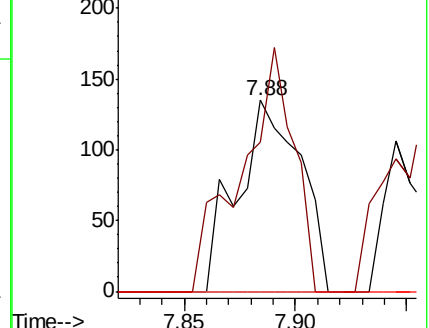
192 0.0 13.9 20.9#

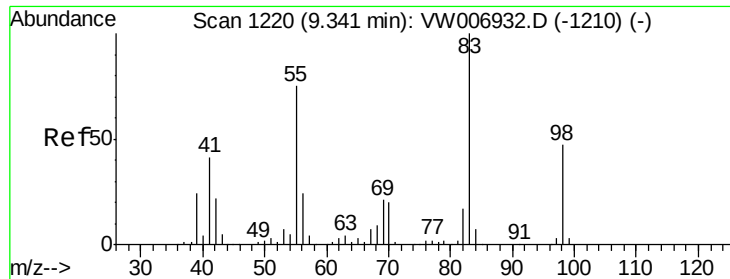


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

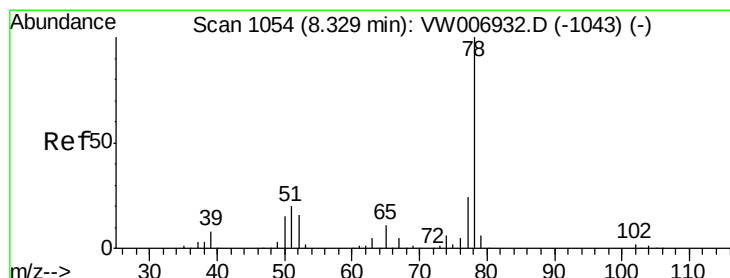
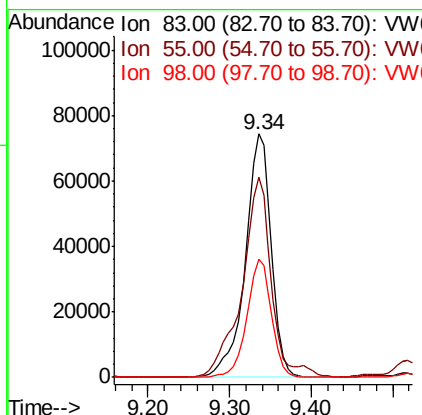
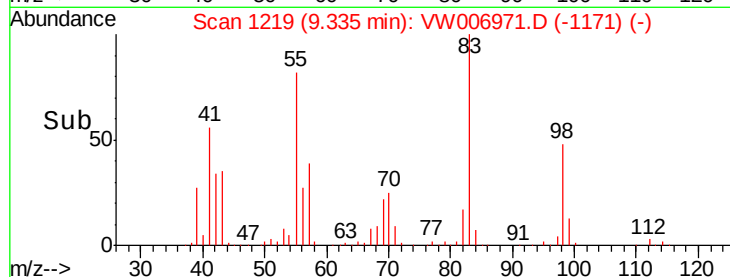
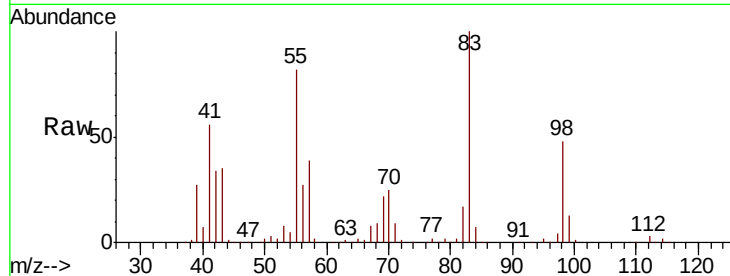




#39  
Methvlcvclohexane  
Concen: 85.086 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.01 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

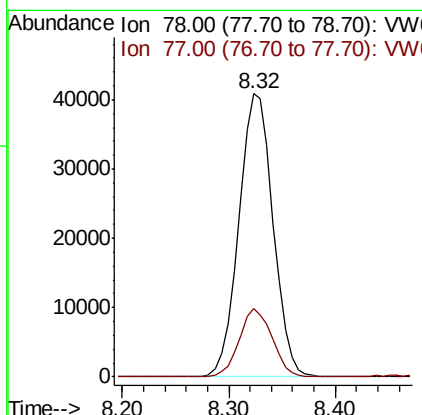
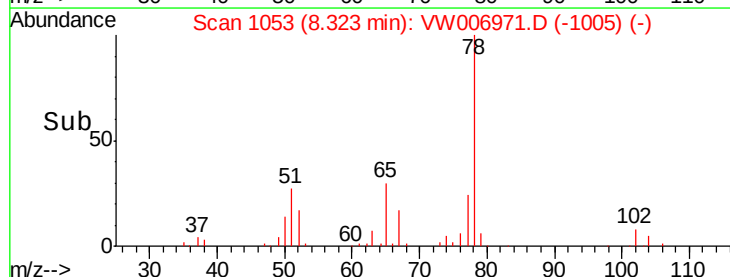
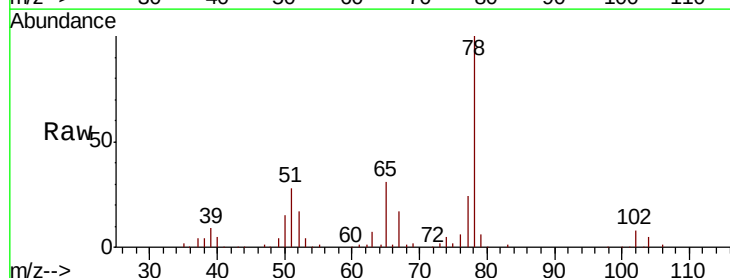
Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

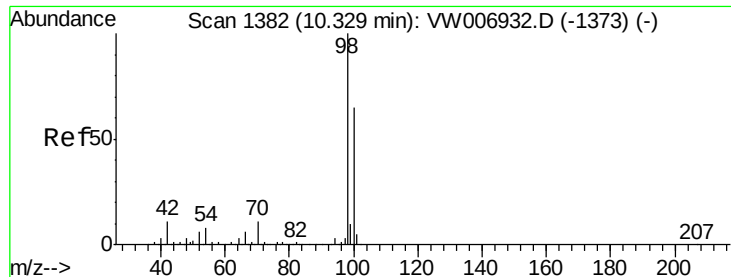
Tot Ion: 83 Resp: 164415  
Ion Ratio Lower Upper  
83 100  
55 82.0 60.2 90.4  
98 48.3 37.3 55.9



#40  
Benzene  
Concen: 20.920 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.01 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion: 78 Resp: 92058  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.3 28.9

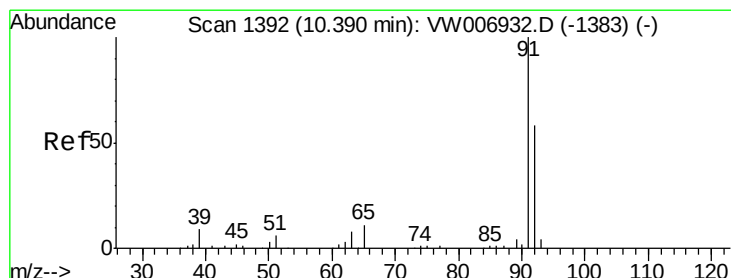
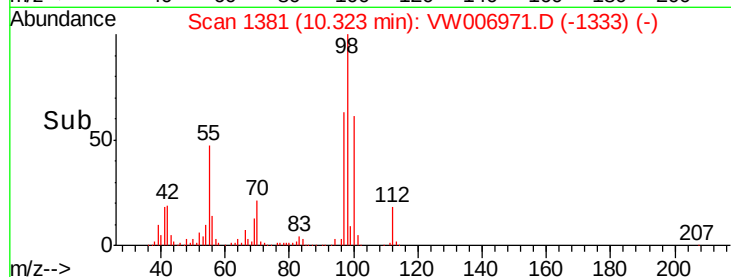
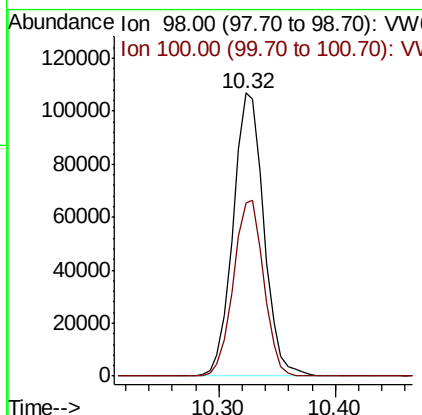
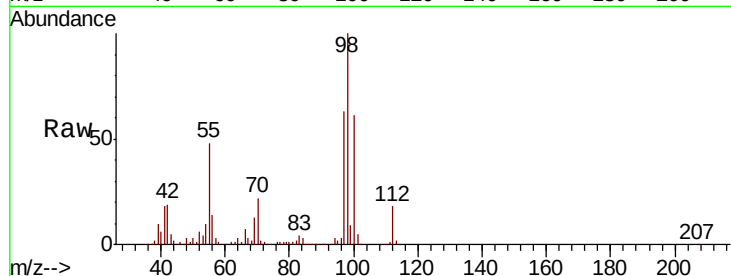




#50  
Toluene-d8  
Concen: 47.861 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.01 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

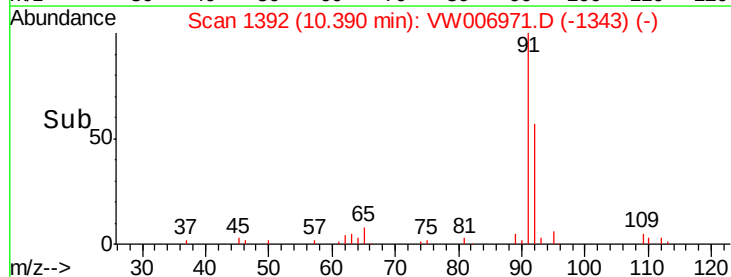
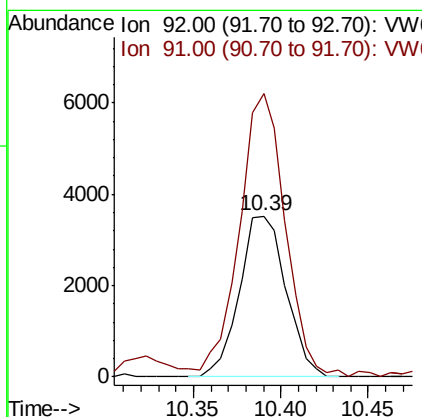
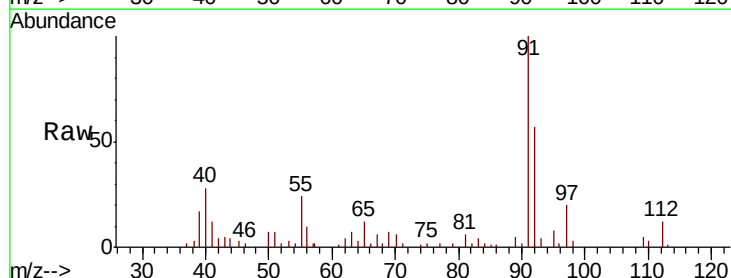
Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

Tot Ion: 98 Resp: 196831  
Ion Ratio Lower Upper  
98 100  
100 61.1 52.3 78.5

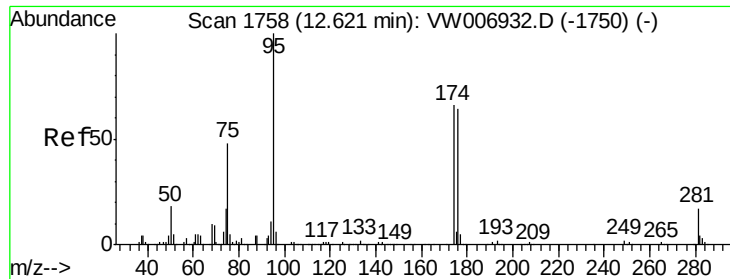


#52  
Toluene  
Concen: 2.209 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion: 92 Resp: 6504  
Ion Ratio Lower Upper  
92 100  
91 175.2 137.3 205.9



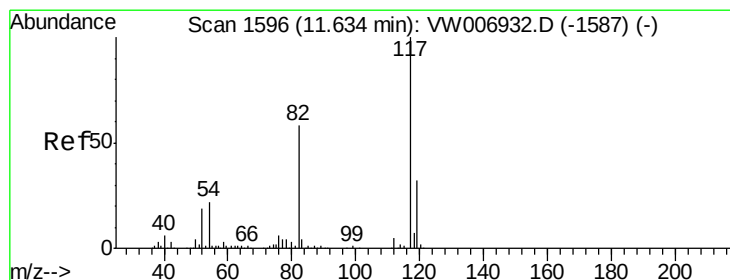
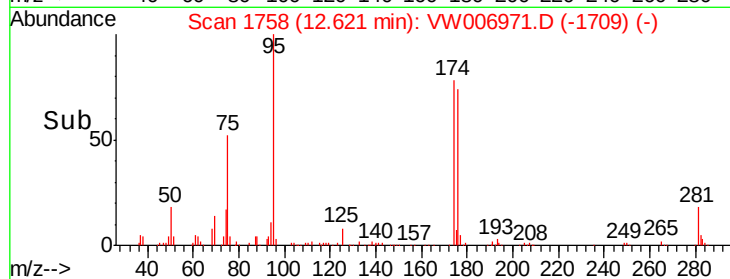
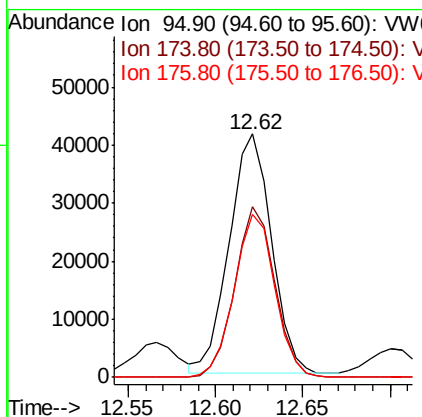
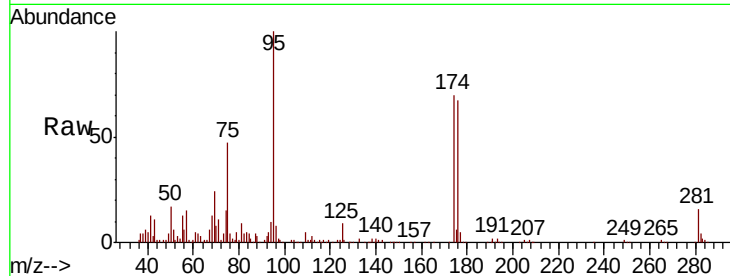




#62  
4-Bromofluorobenzene  
Concen: 43.218 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

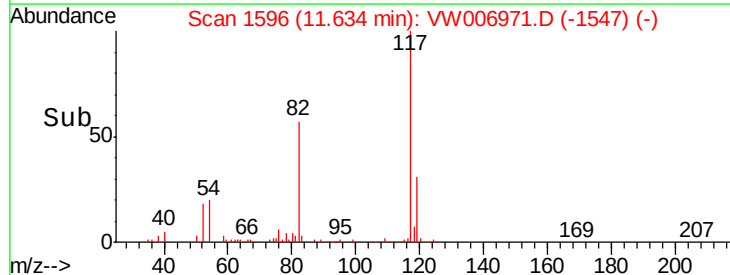
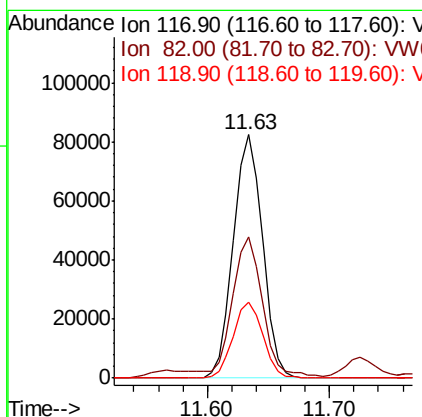
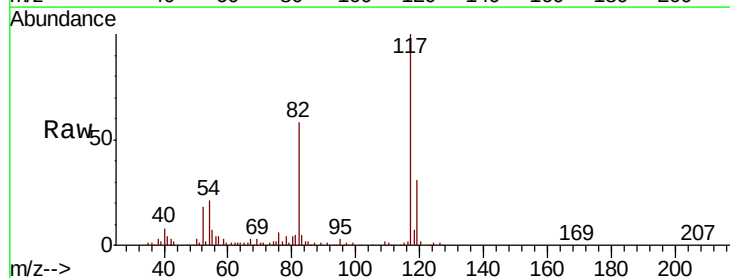
Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

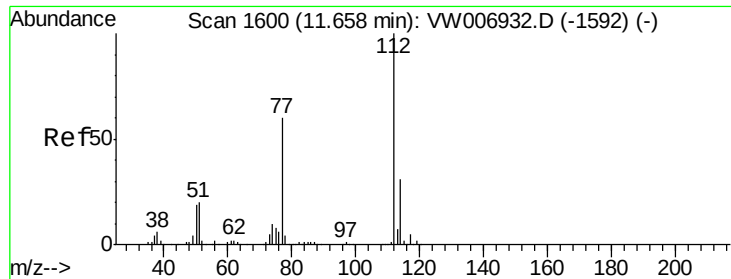
Tot Ion: 95 Resp: 69304  
Ion Ratio Lower Upper  
95 100  
174 67.2 0.0 138.4  
176 65.4 0.0 133.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion: 117 Resp: 136133  
Ion Ratio Lower Upper  
117 100  
82 55.2 46.2 69.2  
119 31.2 25.5 38.3

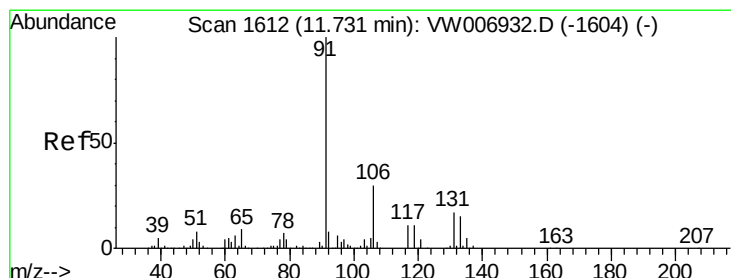
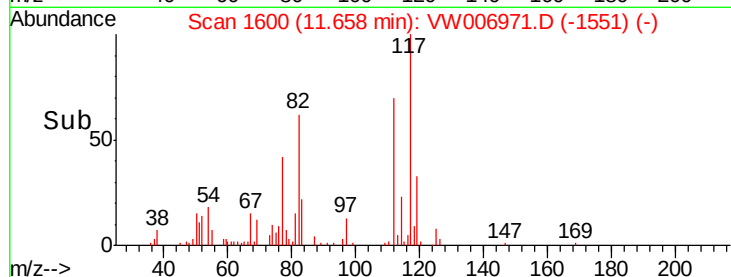
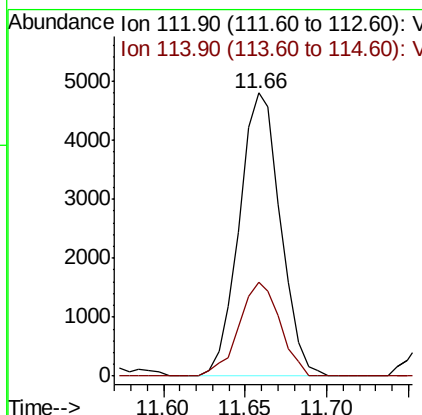
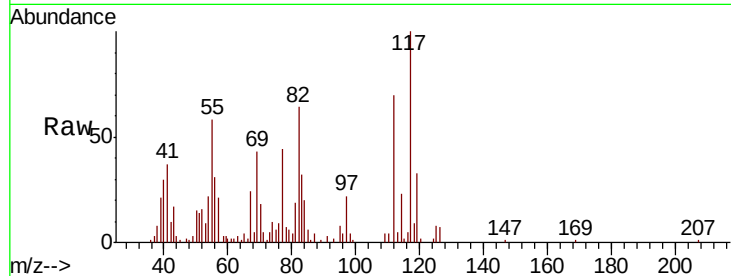




#65  
Chlorobenzene  
Concen: 2.937 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

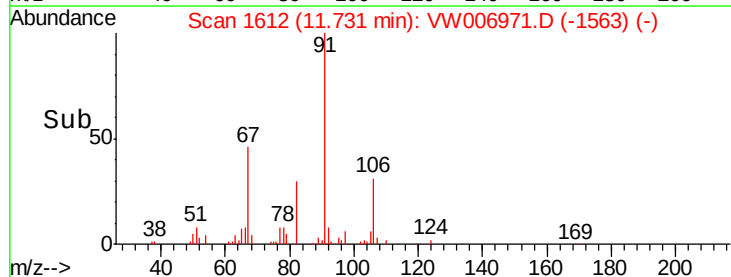
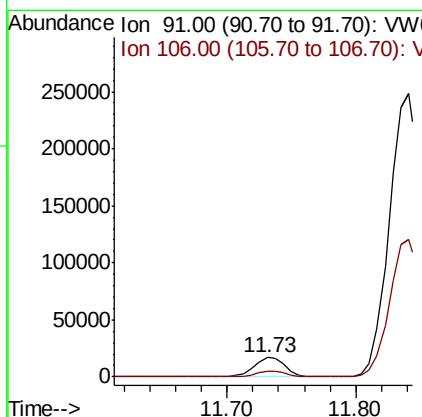
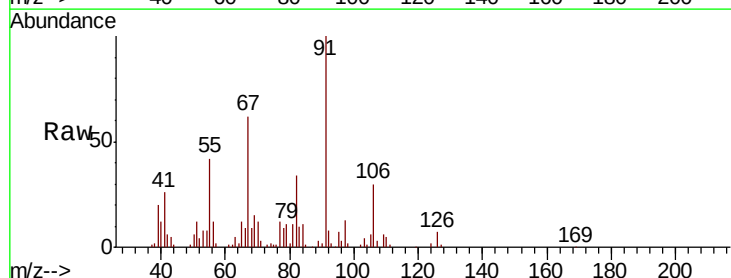
Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

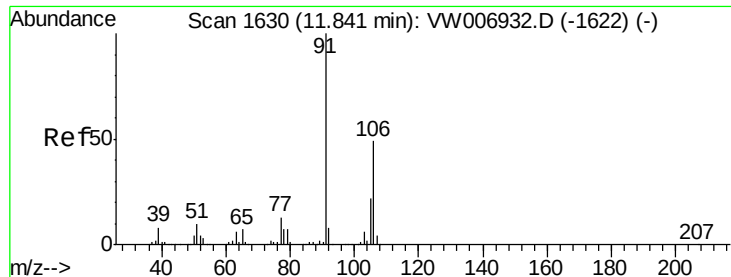
Tot Ion:112 Resp: 8442  
Ion Ratio Lower Upper  
112 100  
114 33.3 24.6 37.0



#67  
Ethyl Benzene  
Concen: 5.482 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion: 91 Resp: 28412  
Ion Ratio Lower Upper  
91 100  
106 30.0 24.0 36.0

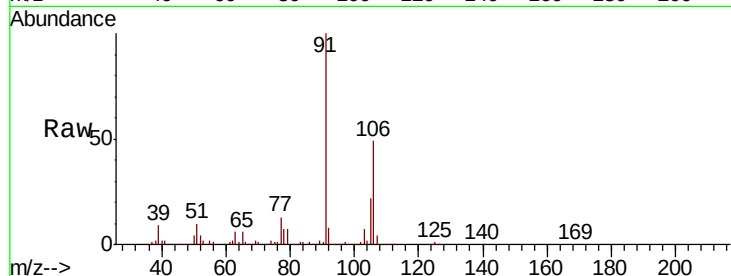




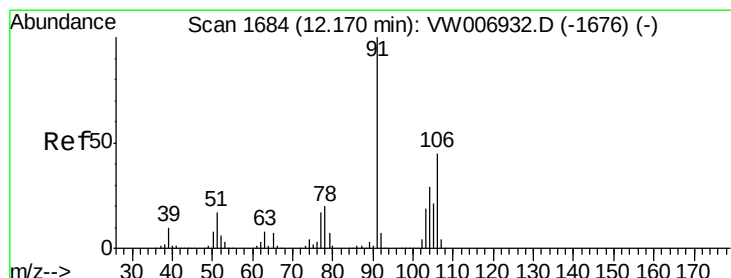
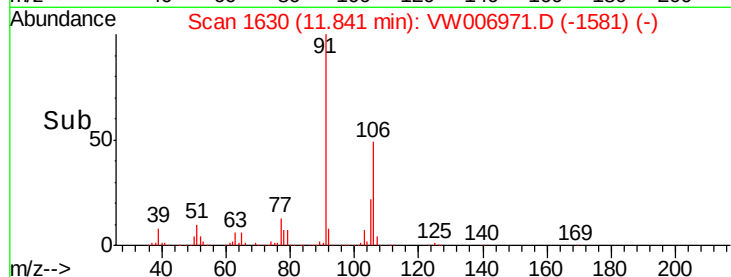
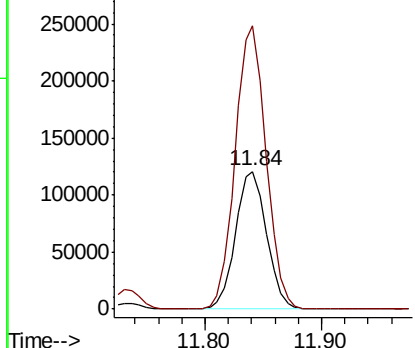
#68  
m/p-Xylenes  
Concen: 110.828 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

Tot Ion:106 Resp: 223665  
Ion Ratio Lower Upper  
106 100  
91 204.5 165.0 247.4

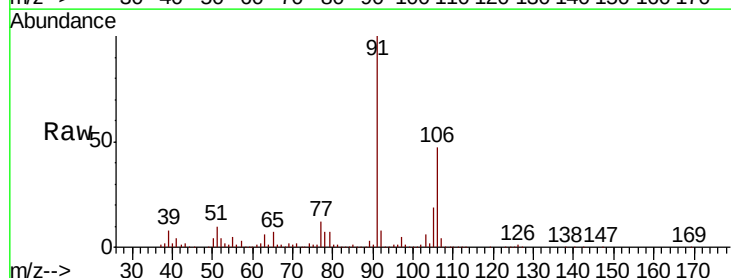


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

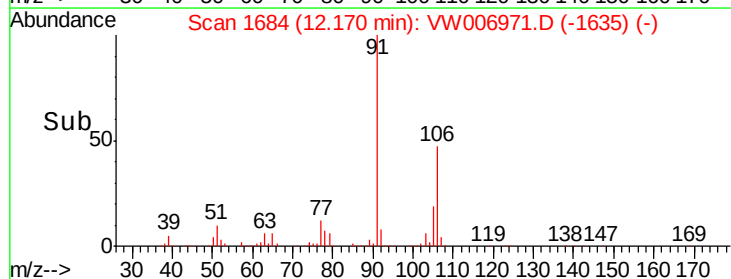
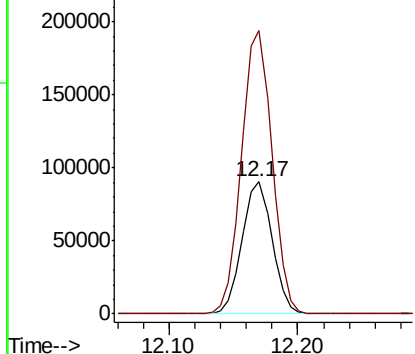


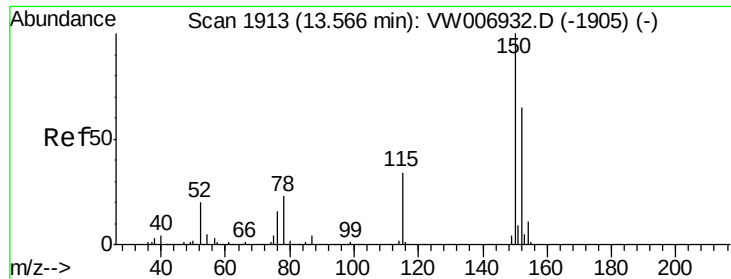
#69  
o-Xylene  
Concen: 76.144 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion:106 Resp: 145847  
Ion Ratio Lower Upper  
106 100  
91 217.2 109.2 327.6



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



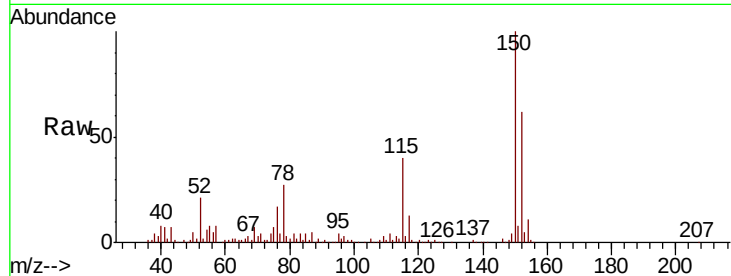


#72

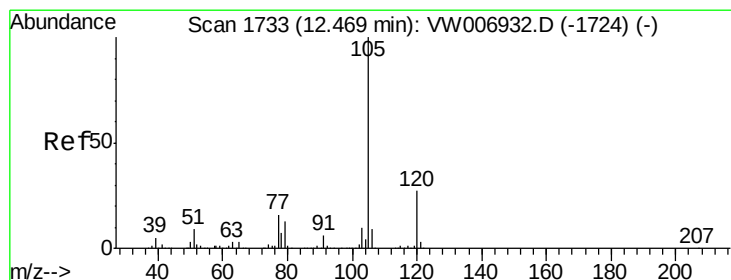
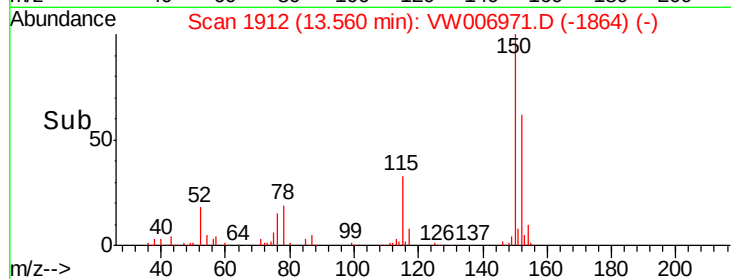
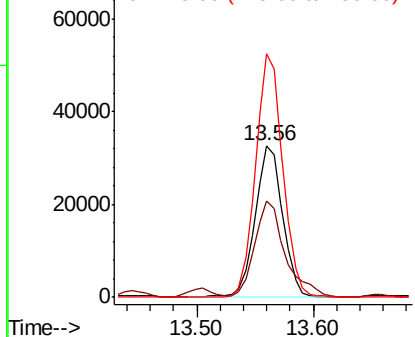
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.01 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

Tot Ion:152 Resp: 53816  
Ion Ratio Lower Upper  
152 100  
115 69.3 31.6 94.7  
150 157.3 0.0 350.0



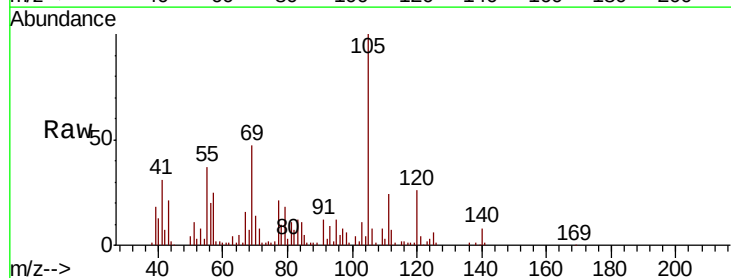
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



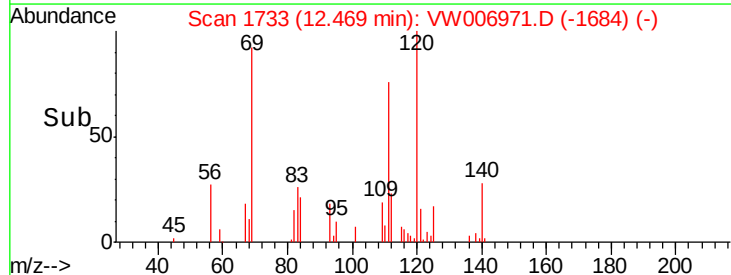
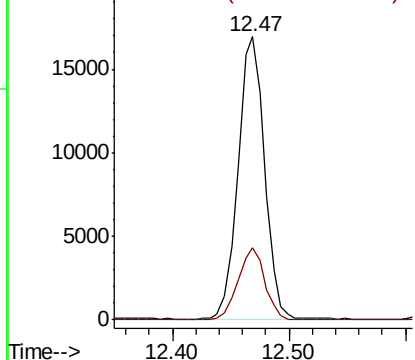
#73

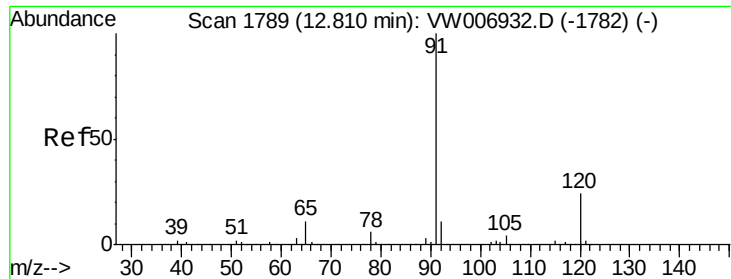
Isopropylbenzene  
Concen: 6.360 ug/l  
RT: 12.47 min Scan# 1733  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion:105 Resp: 27108  
Ion Ratio Lower Upper  
105 100  
120 25.4 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

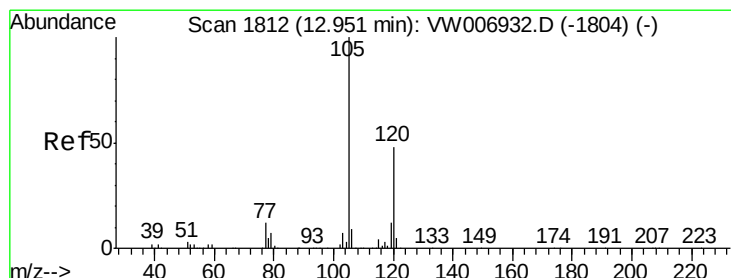
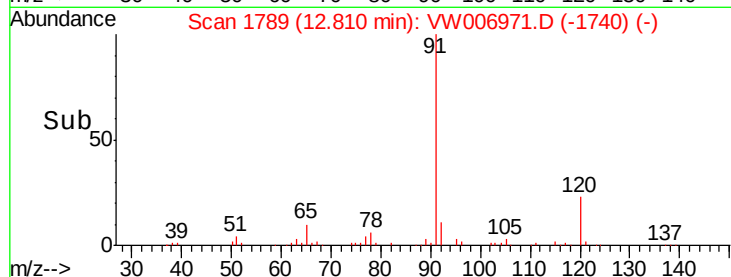
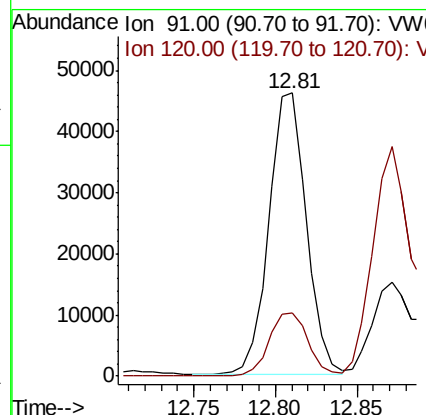
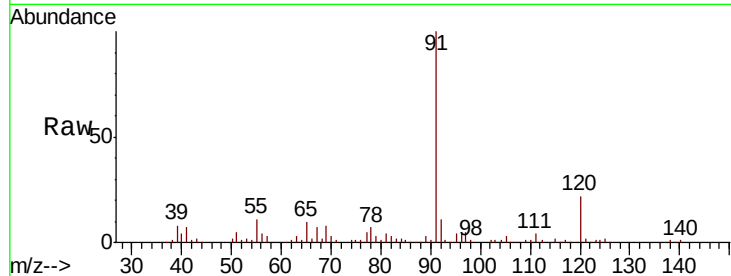




#78  
n-propylbenzene  
Concen: 14.267 ug/l  
RT: 12.81 min Scan# 1789  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

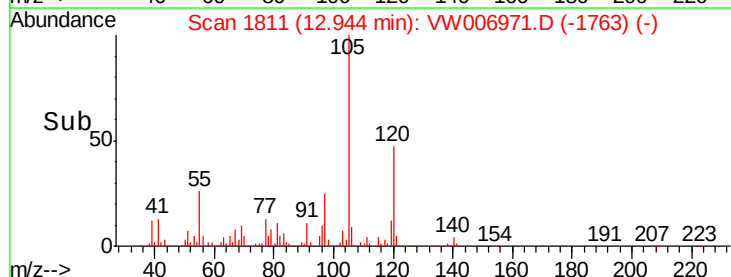
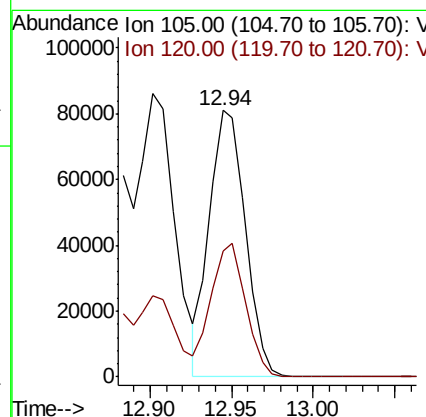
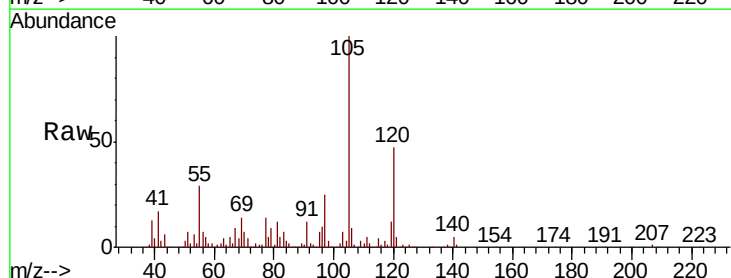
Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

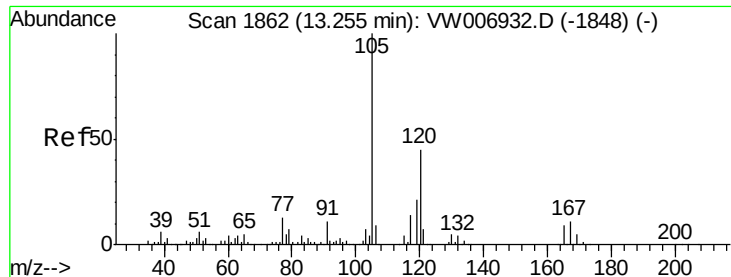
Tot Ion: 91 Resp: 73062  
Ion Ratio Lower Upper  
91 100  
120 23.6 11.5 34.5



#80  
1,3,5-Trimethylbenzene  
Concen: 33.954 ug/l  
RT: 12.94 min Scan# 1811  
Delta R.T. -0.01 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion: 105 Resp: 124606  
Ion Ratio Lower Upper  
105 100  
120 48.4 23.5 70.5

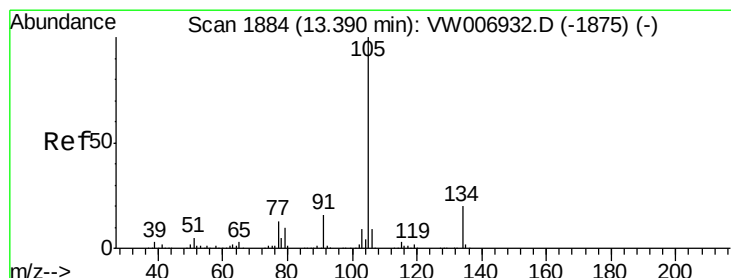
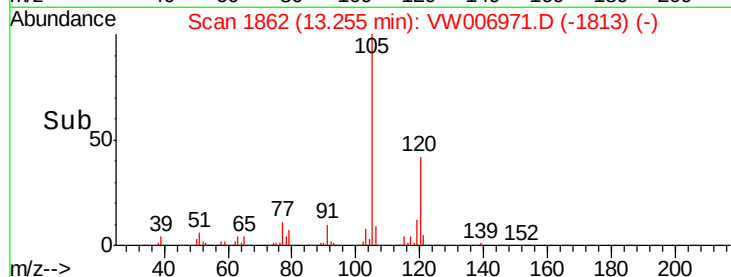
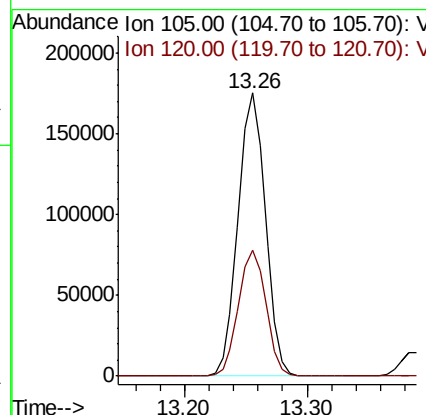
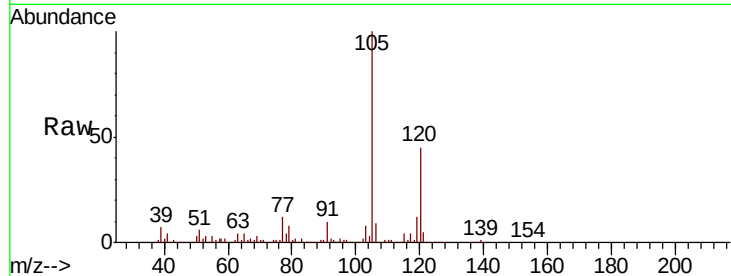




#84  
 1,2,4-Trimethylbenzene  
 Concen: 73.488 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. -0.00 min  
 Lab File: VW006971.D  
 Acq: 20 Nov 2018 03:47

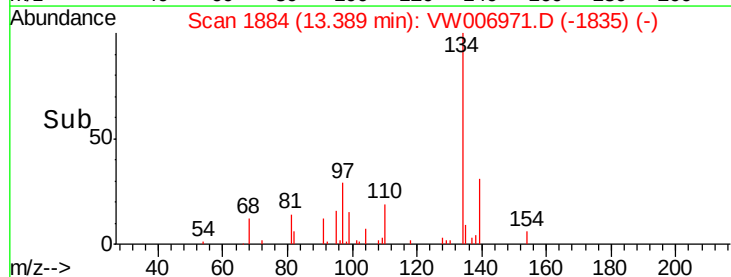
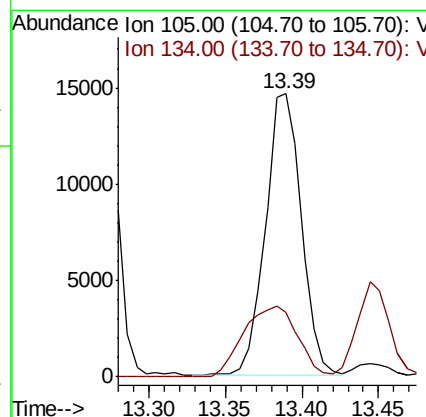
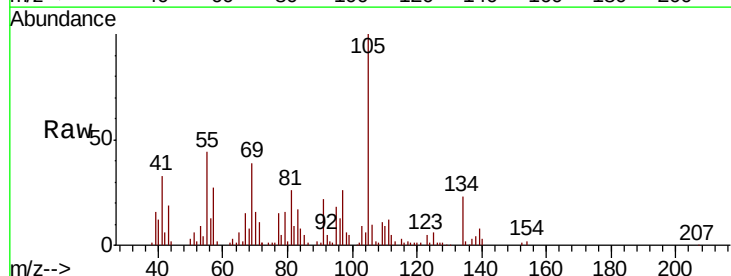
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 20180930-AMENDED-WCC-3-COMP

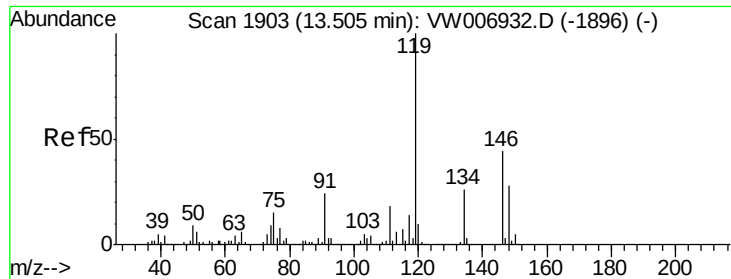
Tot Ion:105 Resp: 270933  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 21.9 65.8



#85  
 sec-Butylbenzene  
 Concen: 5.409 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. -0.00 min  
 Lab File: VW006971.D  
 Acq: 20 Nov 2018 03:47

Tgt Ion:105 Resp: 24051  
 Ion Ratio Lower Upper  
 105 100  
 134 37.4 9.8 29.4#

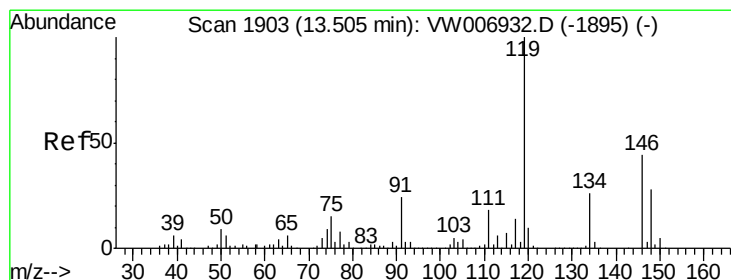
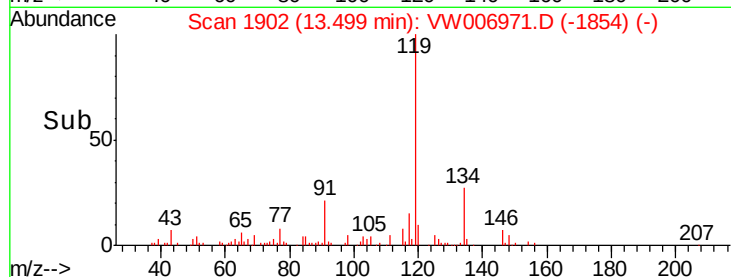
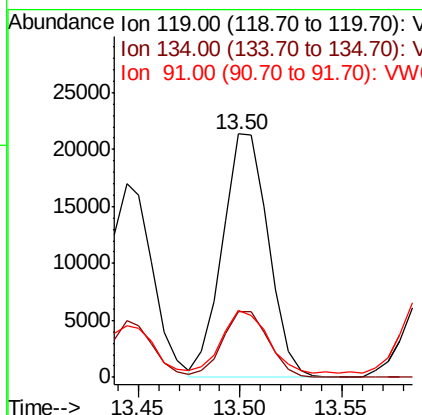
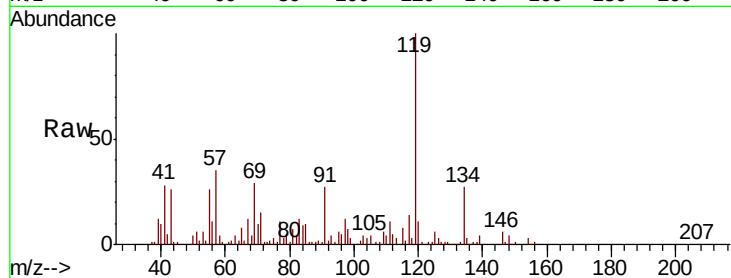




#86  
p-Isopropyltoluene  
Concen: 8.585 ug/l  
RT: 13.50 min Scan# 1902  
Delta R.T. -0.01 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

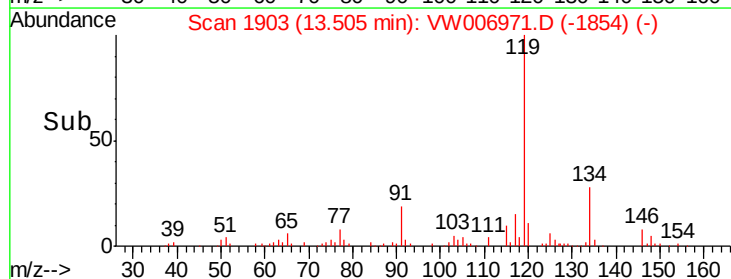
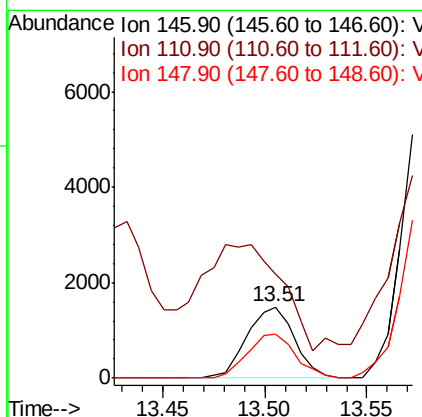
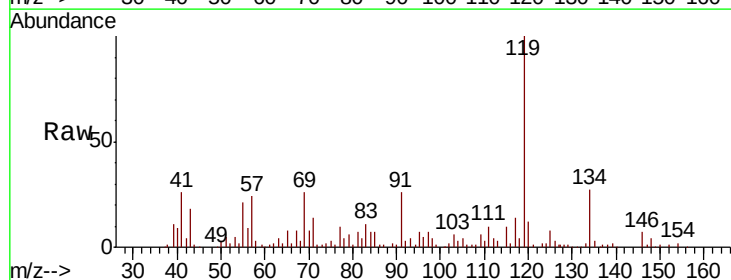
Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

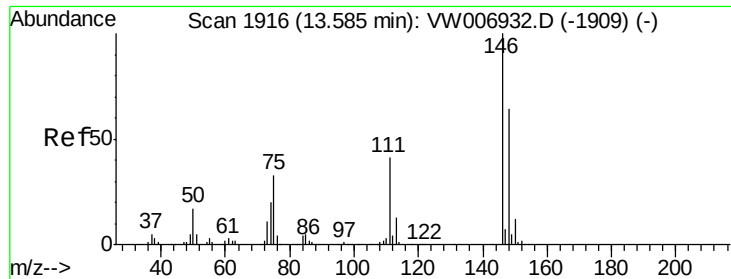
Tot Ion:119 Resp: 33365  
Ion Ratio Lower Upper  
119 100  
134 27.1 12.7 38.1  
91 25.5 12.4 37.2



#87  
1,3-Dichlorobenzene  
Concen: 1.305 ug/l  
RT: 13.51 min Scan# 1903  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Tgt Ion:146 Resp: 2410  
Ion Ratio Lower Upper  
146 100  
111 0.0 21.3 63.9#  
148 62.0 31.9 95.9





#88

1,4-Dichlorobenzene

Concen: 6.888 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

Instrument :

MSVOA\_W

ClientSampleId :

20180930-AMENDED-WCC-3-COMP

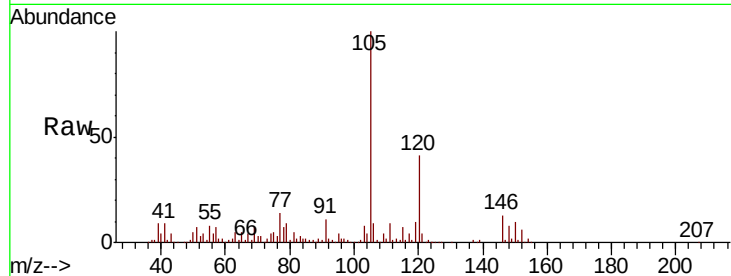
Tot Ion:146 Resp: 12680

Ion Ratio Lower Upper

146 100

111 69.7 20.7 62.1#

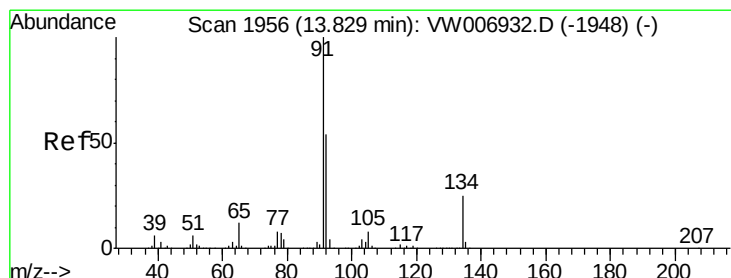
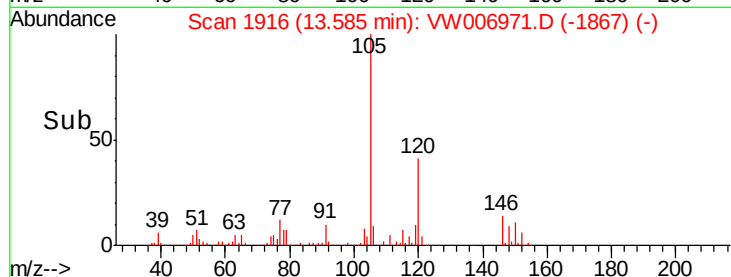
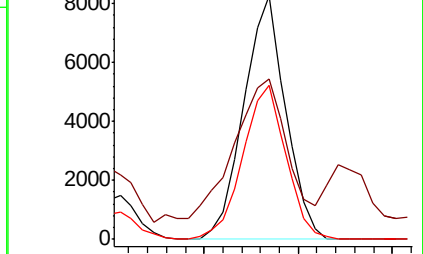
148 65.5 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 6.543 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW006971.D

Acq: 20 Nov 2018 03:47

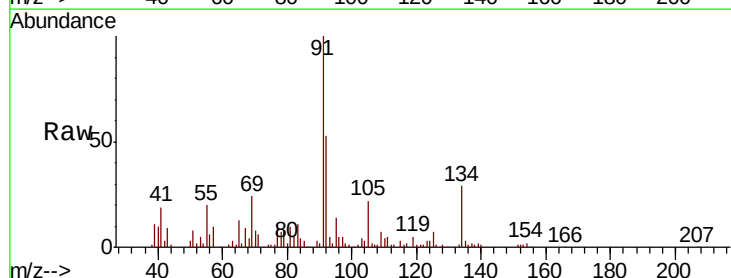
Tgt Ion: 91 Resp: 24071

Ion Ratio Lower Upper

91 100

92 66.3 26.4 79.2

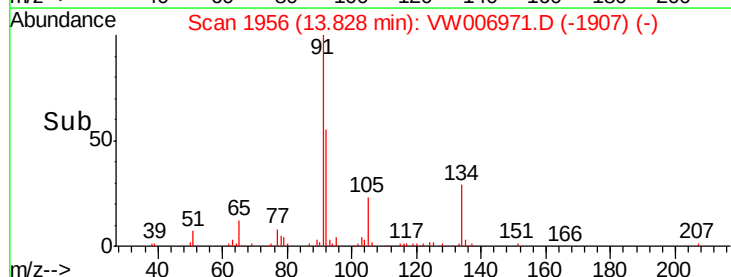
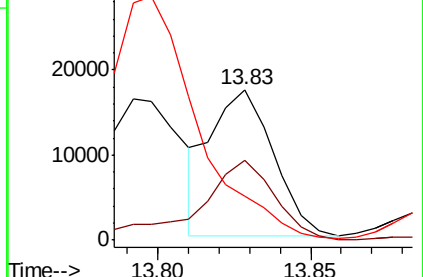
134 0.0 12.9 38.6#



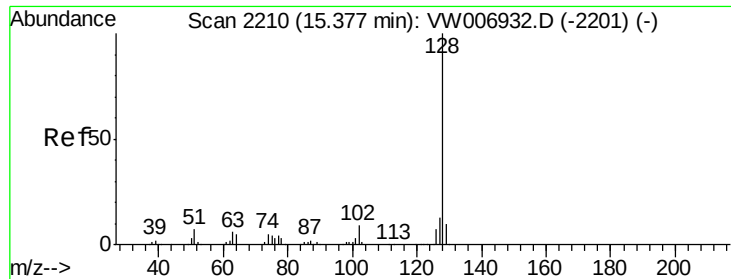
Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



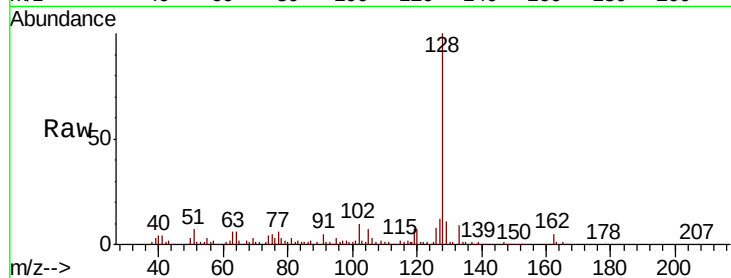




#95  
Naphthalene  
Concen: 36.124 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW006971.D  
Acq: 20 Nov 2018 03:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
20180930-AMENDED-WCC-3-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.9  | 10.6  | 15.8  |
| 129     | 10.6  | 8.5   | 12.7  |



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

