

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041522\  
 Data File : VY008358.D  
 Acq On : 15 Apr 2022 17:59  
 Operator : KP/MD  
 Sample : N2431-03  
 Misc : 4.62g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-15-1-1-GR

Quant Time: Apr 16 05:00:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y040822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 08 16:02:50 2022  
 Response via : Initial Calibration

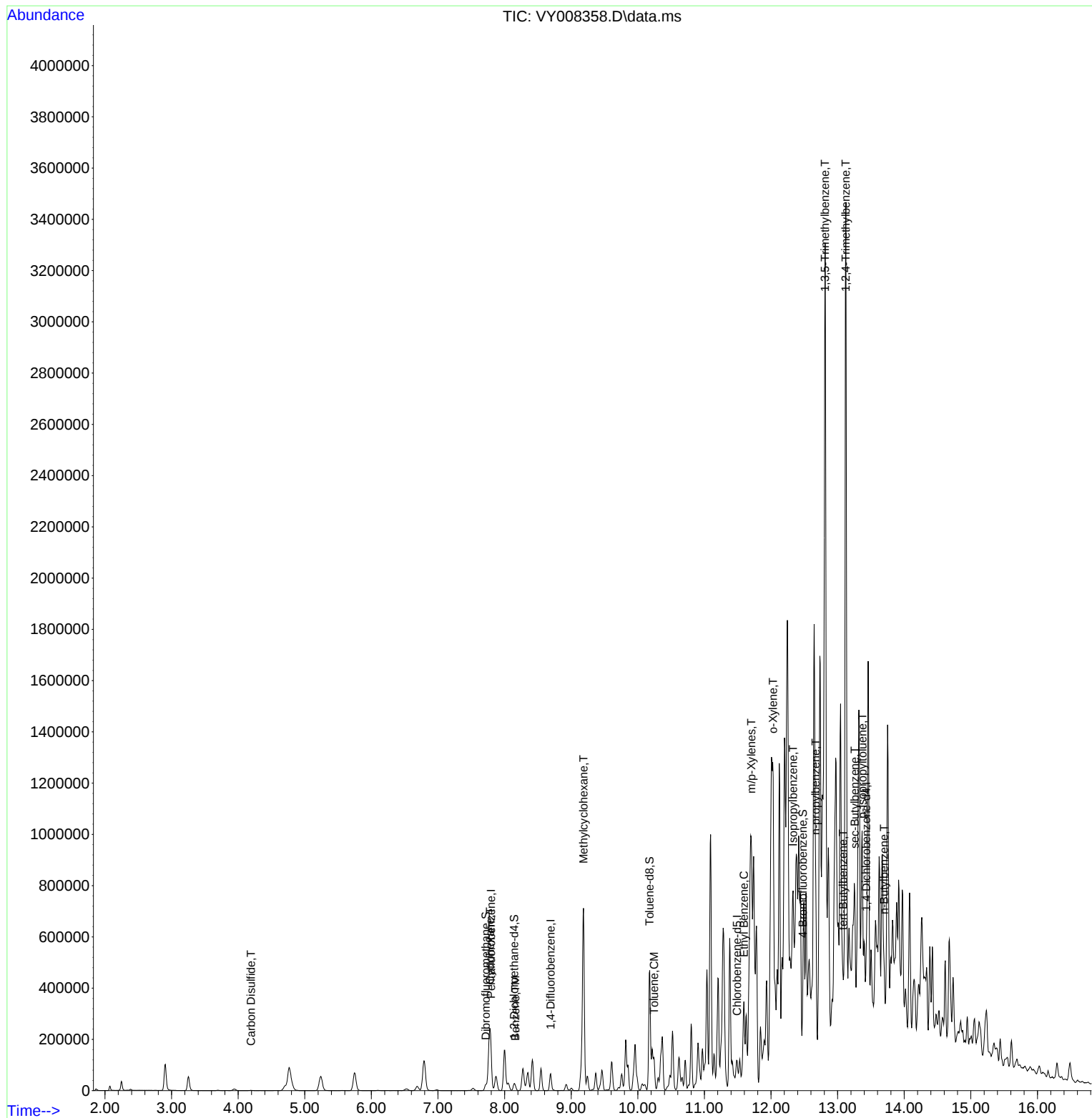
| Compound                    | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------------|----------|
| -----                       |        |       |          |          |             |          |
| Internal Standards          |        |       |          |          |             |          |
| 1) Pentafluorobenzene       | 7.795  | 168   | 33850    | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.691  | 114   | 54802    | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5        | 11.489 | 117   | 39528    | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.428 | 152   | 22459    | 50.000   | ug/l        | # 0.00   |
|                             |        |       |          |          |             |          |
| System Monitoring Compounds |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4   | 8.142  | 65    | 15906    | 50.025   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 100.060%  |          |
| 35) Dibromofluoromethane    | 7.715  | 113   | 16451    | 51.973   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 103.940%  |          |
| 50) Toluene-d8              | 10.178 | 98    | 80406    | 74.238   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 148.480%# |          |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 41095    | 100.877  | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 201.760%# |          |
|                             |        |       |          |          |             |          |
| Target Compounds            |        |       |          |          |             | Qvalue   |
| 17) Carbon Disulfide        | 4.192  | 76    | 2496     | 2.834    | ug/l        | 98       |
| 31) Cyclohexane             | 7.783  | 56    | 109194   | 189.913  | ug/l        | 91       |
| 39) Methylcyclohexane       | 9.185  | 83    | 317331   | 487.948  | ug/l #      | 84       |
| 40) Benzene                 | 8.161  | 78    | 13233    | 8.792    | ug/l        | 96       |
| 52) Toluene                 | 10.246 | 92    | 49265    | 49.679   | ug/l        | 97       |
| 67) Ethyl Benzene           | 11.593 | 91    | 186273   | 127.780  | ug/l        | 97       |
| 68) m/p-Xylenes             | 11.703 | 106   | 213523   | 368.294  | ug/l        | 91       |
| 69) o-Xylene                | 12.032 | 106   | 227858   | 404.998  | ug/l        | 90       |
| 73) Isopropylbenzene        | 12.331 | 105   | 217511   | 130.263  | ug/l        | 97       |
| 78) n-propylbenzene         | 12.672 | 91    | 410767   | 208.474  | ug/l        | 94       |
| 80) 1,3,5-Trimethylbenzene  | 12.812 | 105   | 806902   | 589.320  | ug/l        | 95       |
| 83) tert-Butylbenzene       | 13.080 | 119   | 14985    | 12.199   | ug/l        | 90       |
| 84) 1,2,4-Trimethylbenzene  | 13.123 | 105   | 1656827  | 1222.737 | ug/l        | 94       |
| 85) sec-Butylbenzene        | 13.257 | 105   | 186268   | 102.286  | ug/l #      | 66       |
| 86) p-Isopropyltoluene      | 13.373 | 119   | 176415   | 116.090  | ug/l        | 96       |
| 89) n-Butylbenzene          | 13.696 | 91    | 96938    | 70.604   | ug/l #      | 76       |
| -----                       |        |       |          |          |             |          |

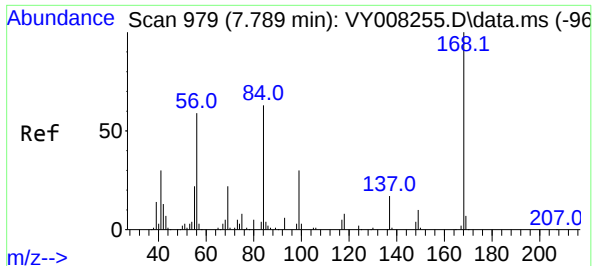
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041522\  
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ClientSampleId :  
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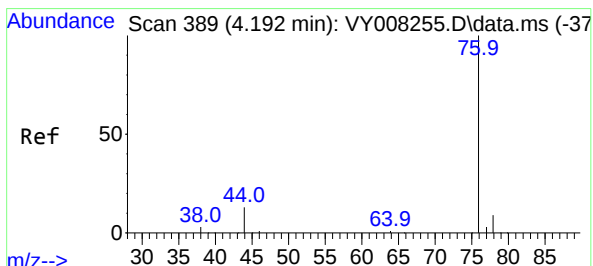
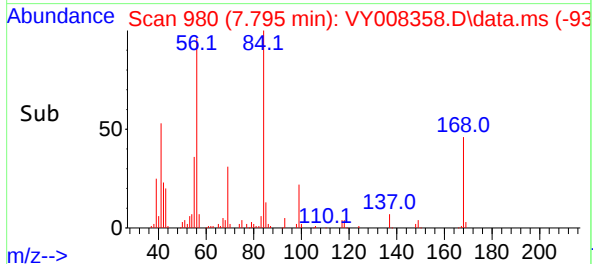
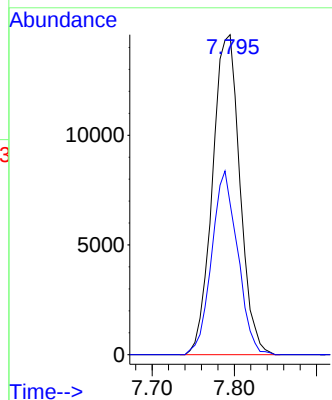
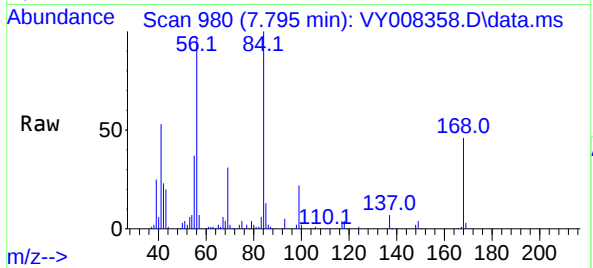




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

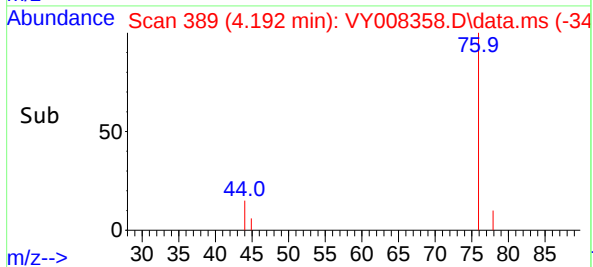
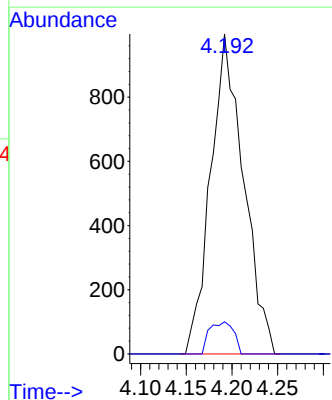
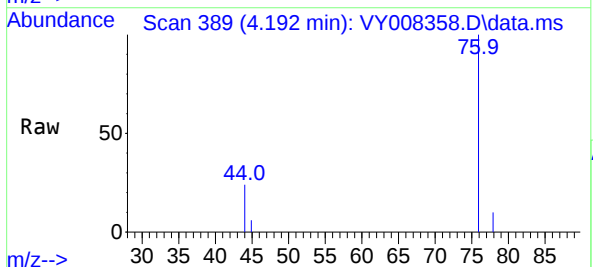
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

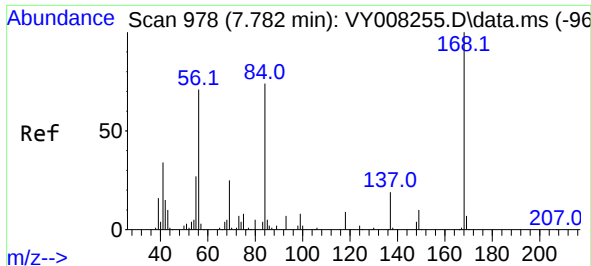
Tgt Ion:168 Resp: 33850  
Ion Ratio Lower Upper  
168 100  
99 47.2 46.9 70.3



#17  
Carbon Disulfide  
Concen: 2.834 ug/l  
RT: 4.192 min Scan# 389  
Delta R.T. -0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion: 76 Resp: 2496  
Ion Ratio Lower Upper  
76 100  
78 10.0 7.4 11.0

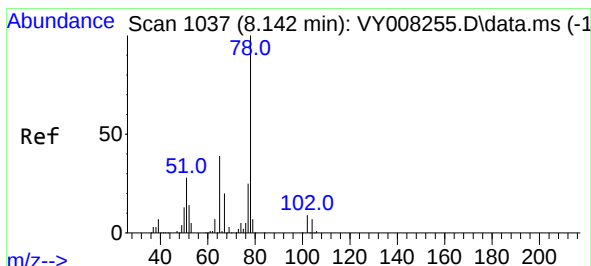
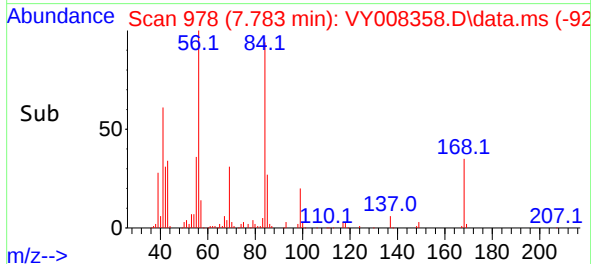
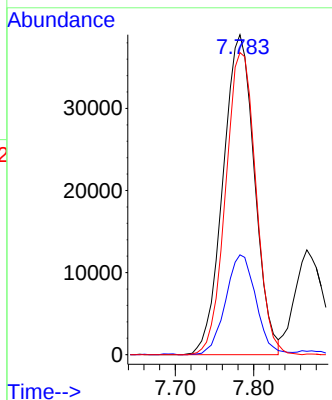
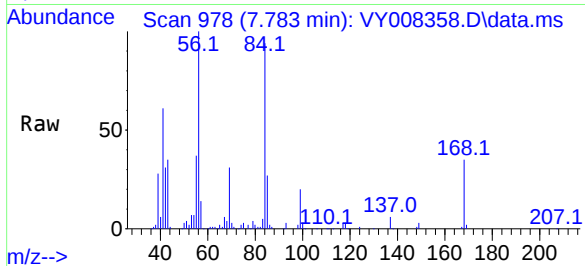




#31  
Cyclohexane  
Concen: 189.913 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. 0.001 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

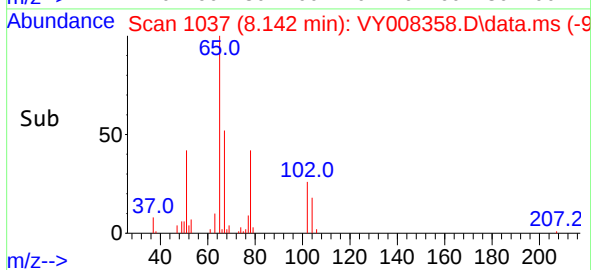
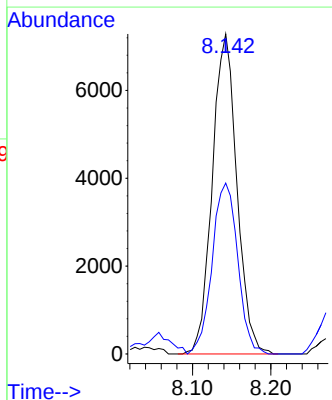
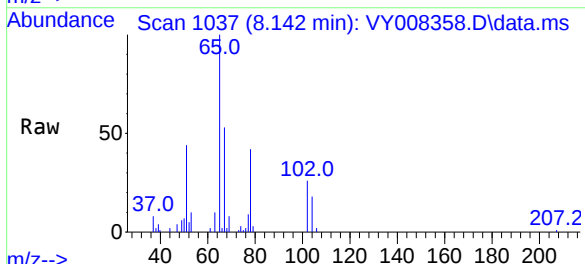
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MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

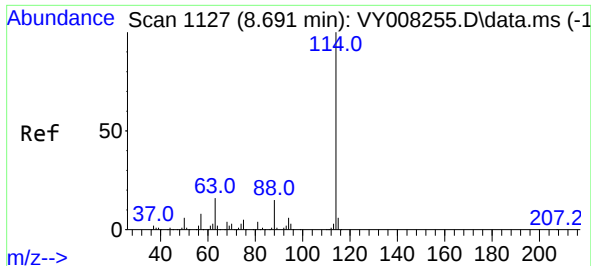
Tgt Ion: 56 Resp: 109194  
Ion Ratio Lower Upper  
56 100  
69 31.2 26.7 40.1  
84 94.4 67.2 100.8



#33  
1,2-Dichloroethane-d4  
Concen: 50.025 ug/l  
RT: 8.142 min Scan# 1037  
Delta R.T. 0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion: 65 Resp: 15906  
Ion Ratio Lower Upper  
65 100  
67 55.5 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY008358.D

Acq: 15 Apr 2022 17:59

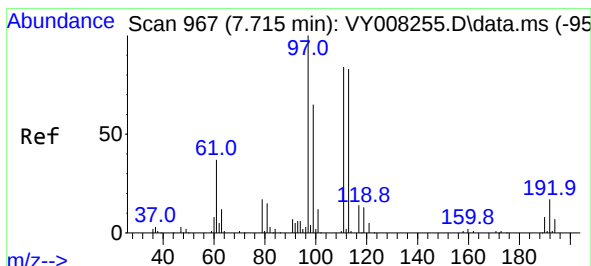
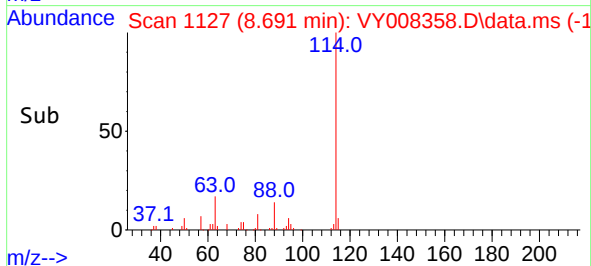
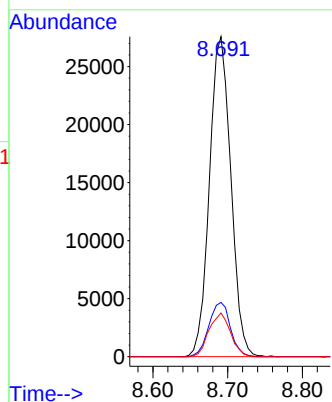
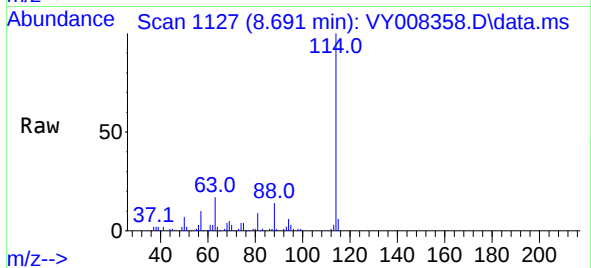
Instrument :

MSVOA\_Y

ClientSampleId :

WC-15-1-1-GR

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 54802 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 17.0  | 0.0   | 43.2  |
| 88        | 13.6  | 0.0   | 31.8  |



#35

Dibromofluoromethane

Concen: 51.973 ug/l

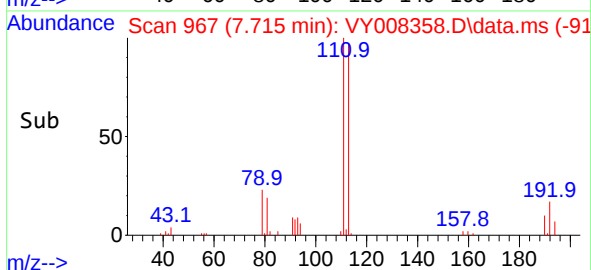
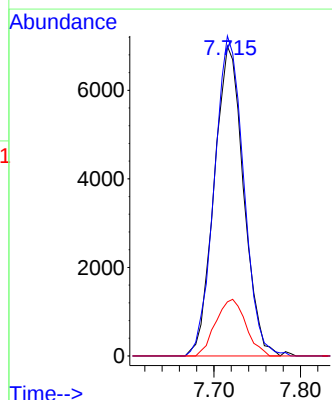
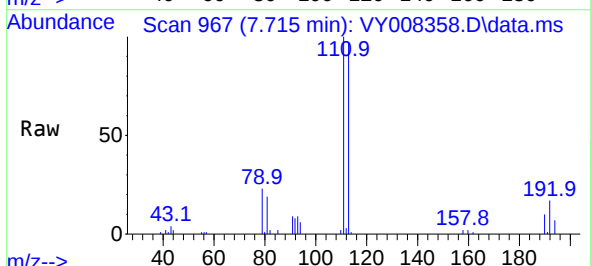
RT: 7.715 min Scan# 967

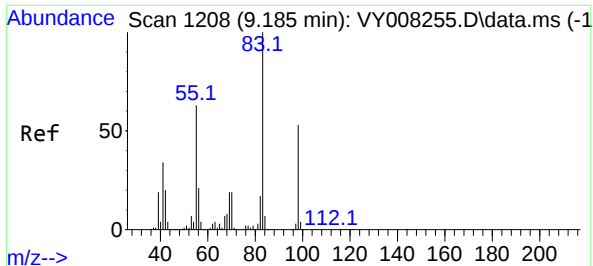
Delta R.T. 0.000 min

Lab File: VY008358.D

Acq: 15 Apr 2022 17:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 16451 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 103.1 | 82.6  | 124.0 |
| 192       | 18.8  | 17.6  | 26.4  |





#39

Methylcyclohexane

Concen: 487.948 ug/l

RT: 9.185 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY008358.D

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Instrument :

MSVOA\_Y

ClientSampleId :

WC-15-1-1-GR

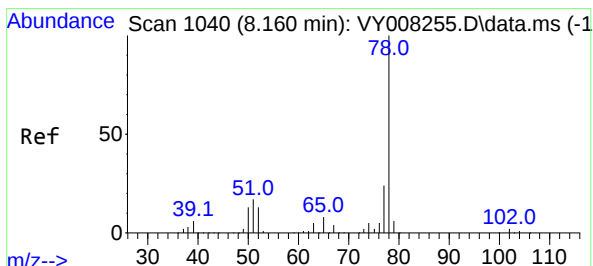
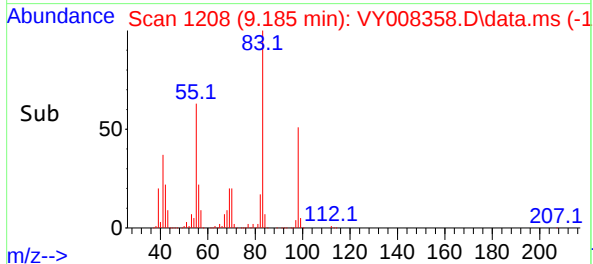
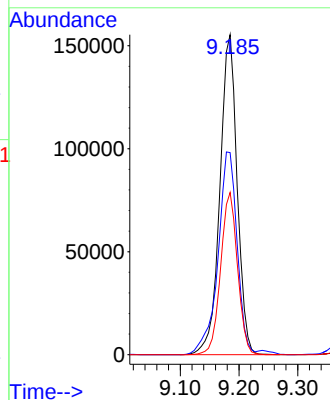
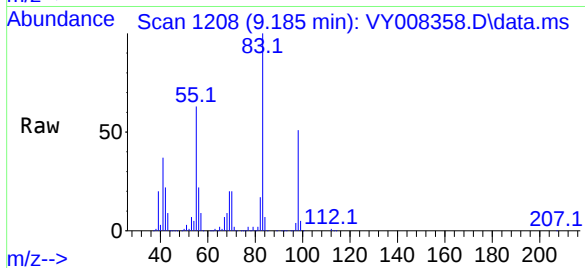
Tgt Ion: 83 Resp: 317331

Ion Ratio Lower Upper

83 100

55 63.2 66.5 99.7#

98 50.7 37.9 56.9



#40

Benzene

Concen: 8.792 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. 0.001 min

Lab File: VY008358.D

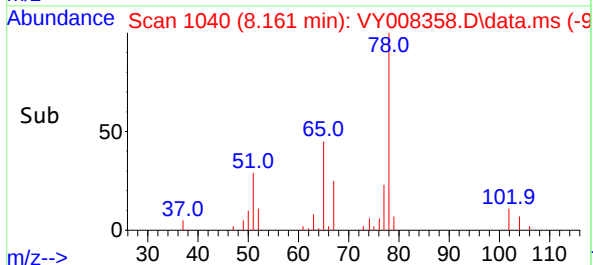
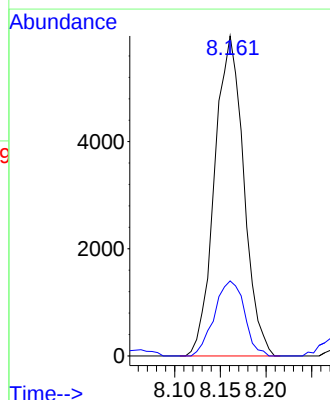
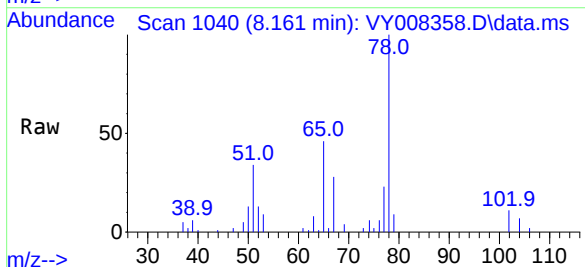
Acq: 15 Apr 2022 17:59

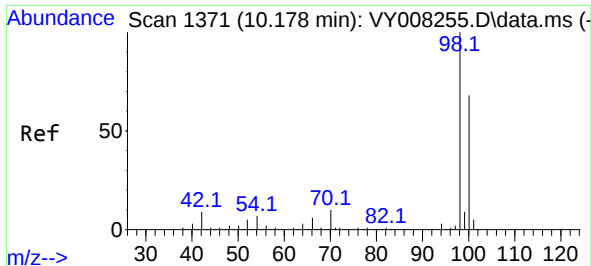
Tgt Ion: 78 Resp: 13233

Ion Ratio Lower Upper

78 100

77 23.5 20.4 30.6

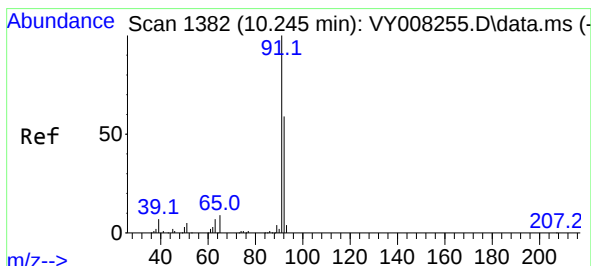
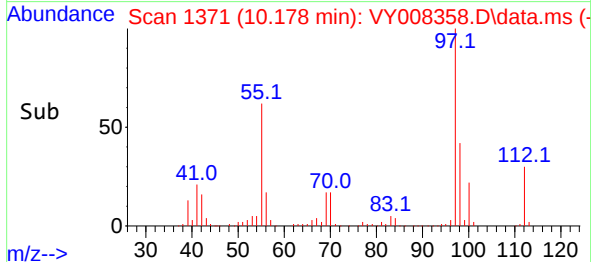
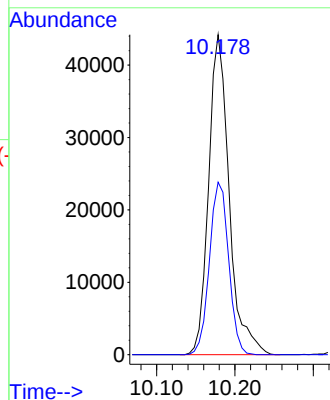
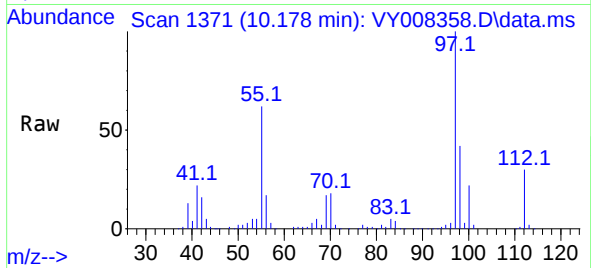




#50  
Toluene-d8  
Concen: 74.238 ug/l  
RT: 10.178 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

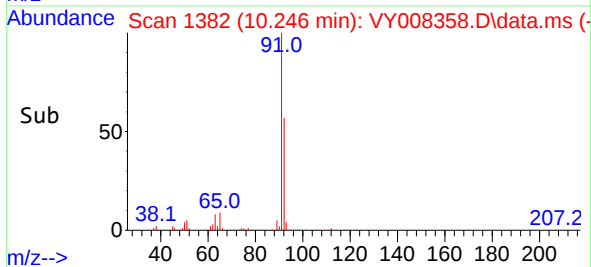
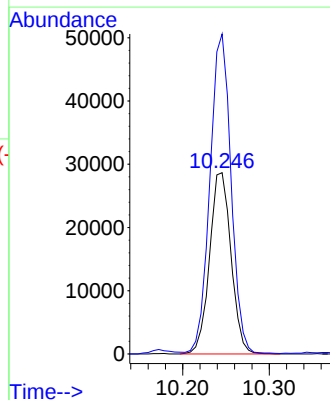
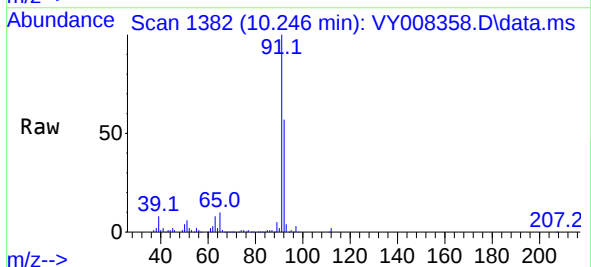
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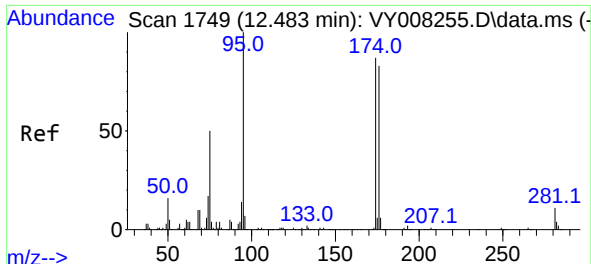
Tgt Ion: 98 Resp: 80406  
Ion Ratio Lower Upper  
98 100  
100 50.4 50.2 75.2



#52  
Toluene  
Concen: 49.679 ug/l  
RT: 10.246 min Scan# 1382  
Delta R.T. 0.001 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion: 92 Resp: 49265  
Ion Ratio Lower Upper  
92 100  
91 173.3 142.6 213.8

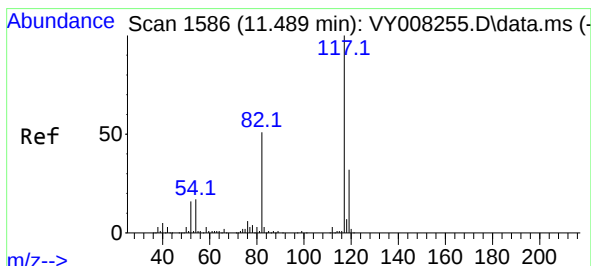
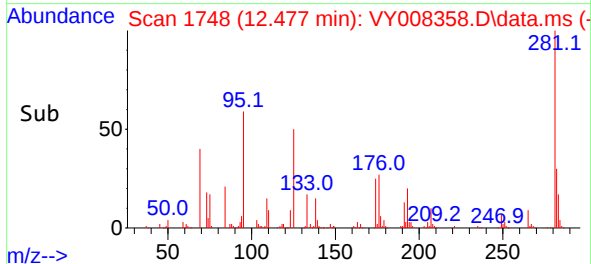
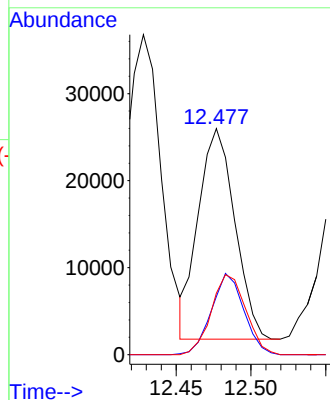
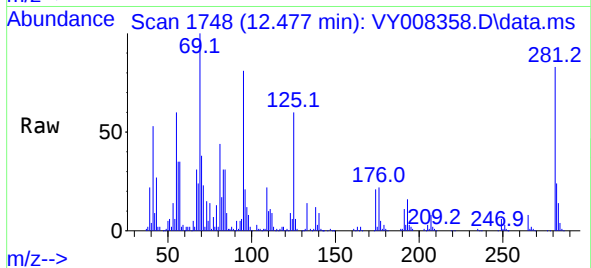




#62  
4-Bromofluorobenzene  
Concen: 100.877 ug/l  
RT: 12.477 min Scan# 1749  
Delta R.T. -0.006 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

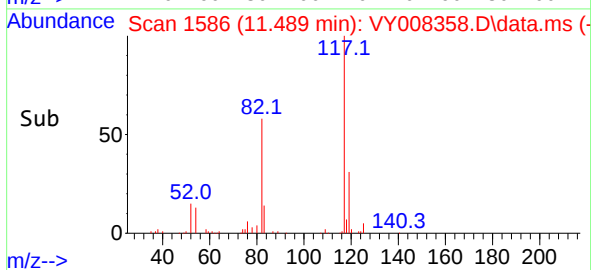
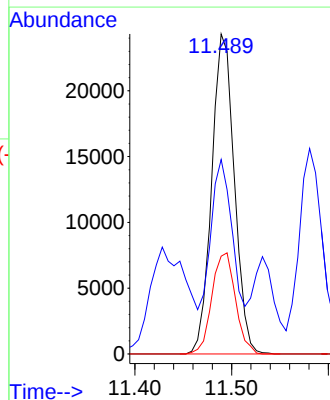
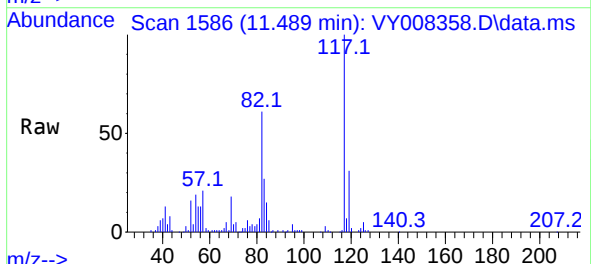
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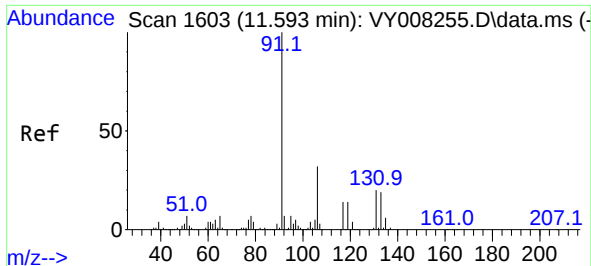
Tgt Ion: 95 Resp: 41095  
Ion Ratio Lower Upper  
95 100  
174 34.3 0.0 177.0  
176 35.8 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion: 117 Resp: 39528  
Ion Ratio Lower Upper  
117 100  
82 50.7 43.0 64.4  
119 30.5 25.4 38.0

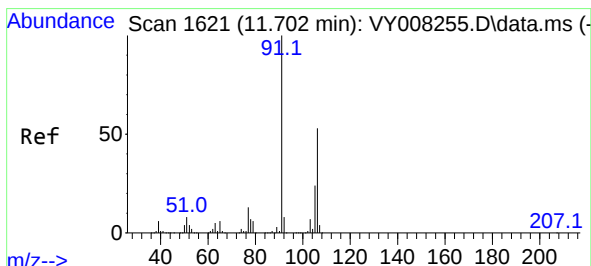
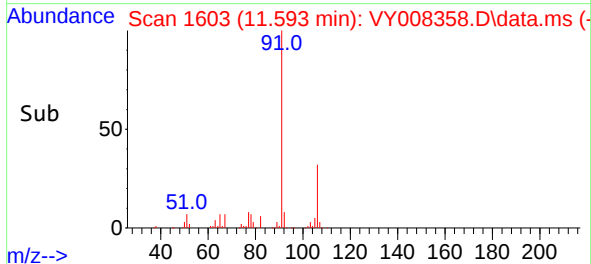
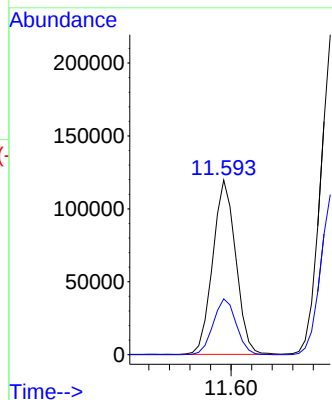
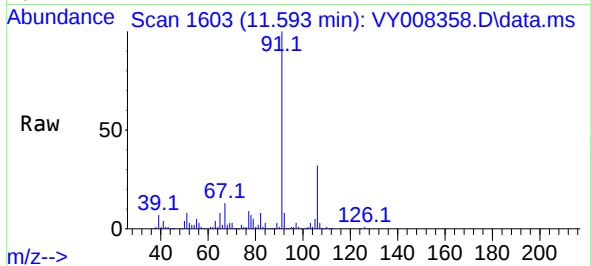




#67  
Ethyl Benzene  
Concen: 127.780 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. -0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

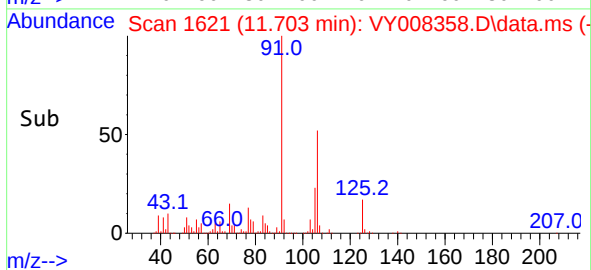
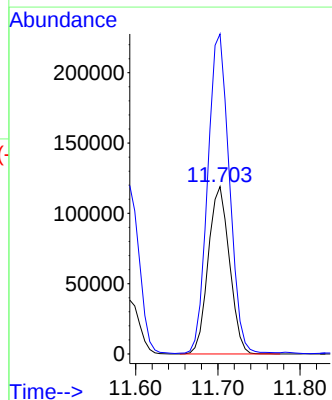
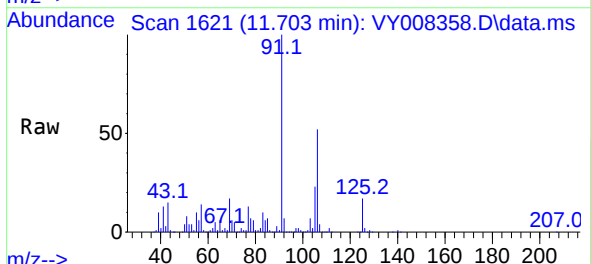
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

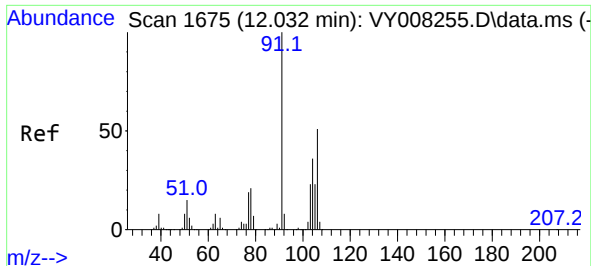
Tgt Ion: 91 Resp: 186273  
Ion Ratio Lower Upper  
91 100  
106 32.0 24.5 36.7



#68  
m/p-Xylenes  
Concen: 368.294 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. 0.001 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion: 106 Resp: 213523  
Ion Ratio Lower Upper  
106 100  
91 194.7 166.6 249.8

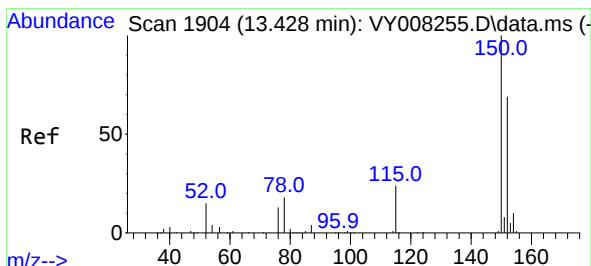
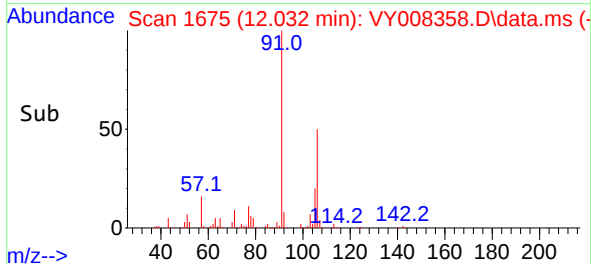
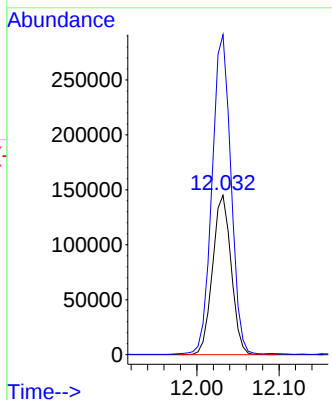
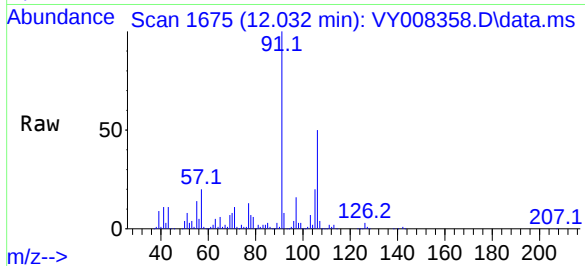




#69  
o-Xylene  
Concen: 404.998 ug/l  
RT: 12.032 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

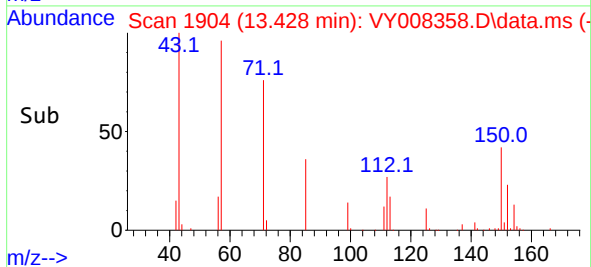
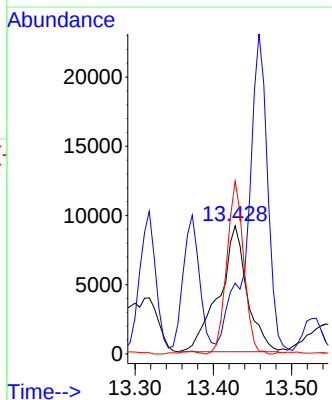
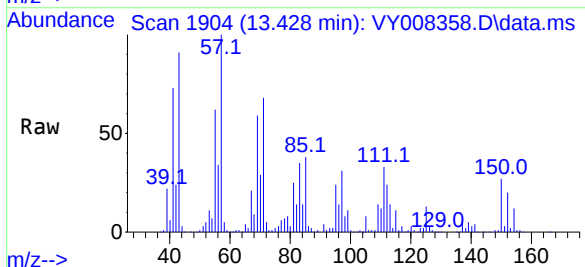
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

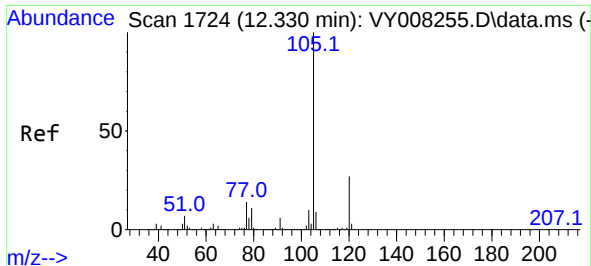
Tgt Ion:106 Resp: 227858  
Ion Ratio Lower Upper  
106 100  
91 204.1 110.3 331.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion:152 Resp: 22459  
Ion Ratio Lower Upper  
152 100  
115 0.0 28.2 84.7#  
150 83.7 0.0 347.6

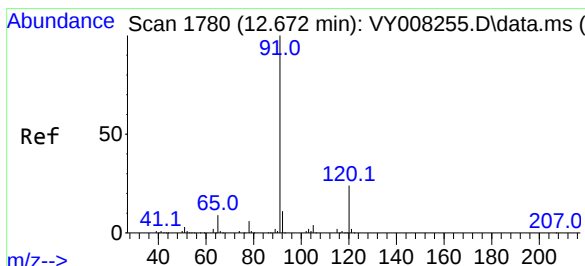
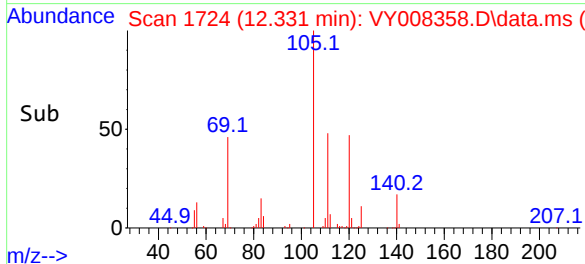
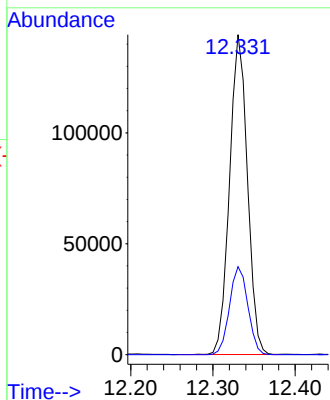
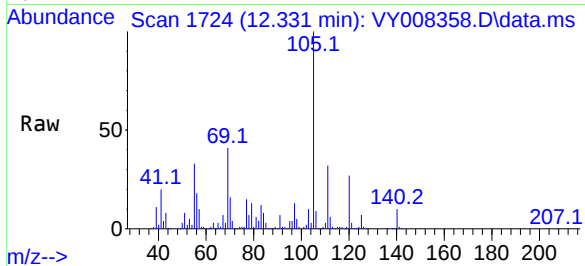




#73  
Isopropylbenzene  
Concen: 130.263 ug/l  
RT: 12.331 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

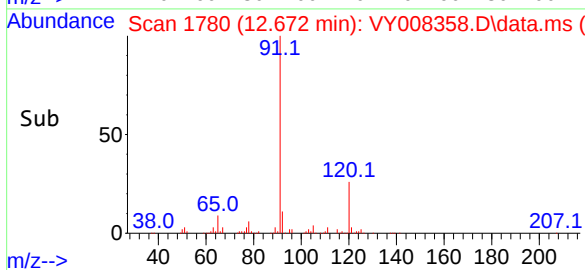
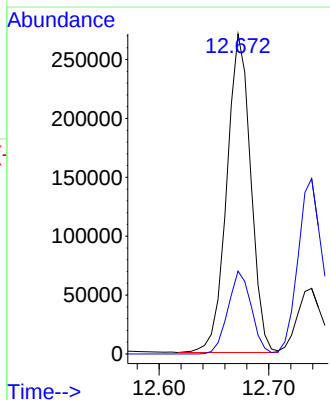
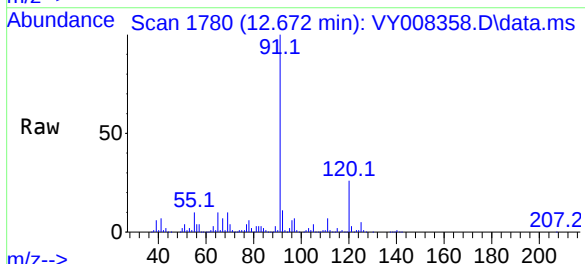
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

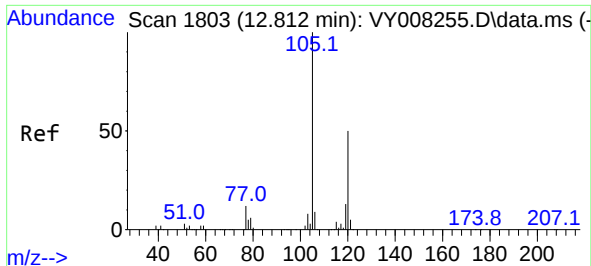
Tgt Ion:105 Resp: 217511  
Ion Ratio Lower Upper  
105 100  
120 28.2 13.4 40.2



#78  
n-propylbenzene  
Concen: 208.474 ug/l  
RT: 12.672 min Scan# 1780  
Delta R.T. -0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion: 91 Resp: 410767  
Ion Ratio Lower Upper  
91 100  
120 25.3 11.3 33.9

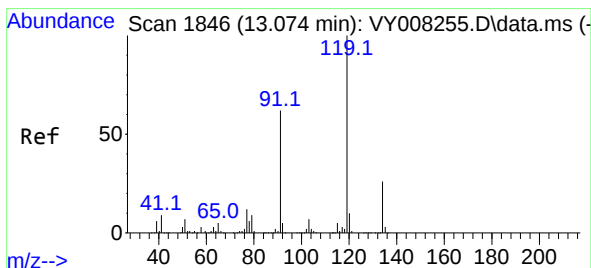
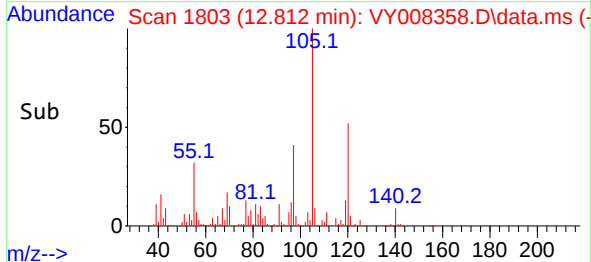
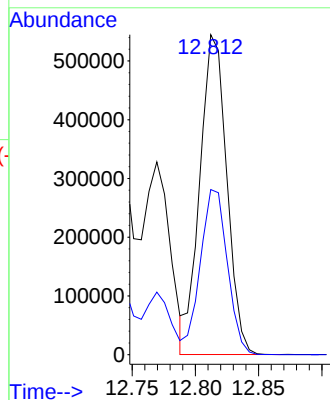
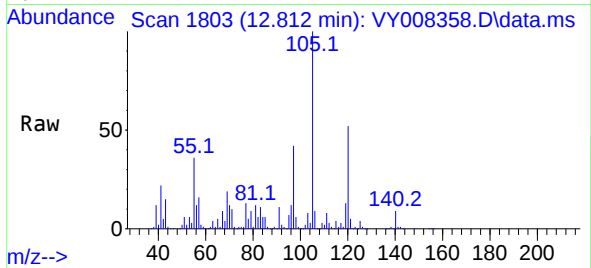




#80  
1,3,5-Trimethylbenzene  
Concen: 589.320 ug/l  
RT: 12.812 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

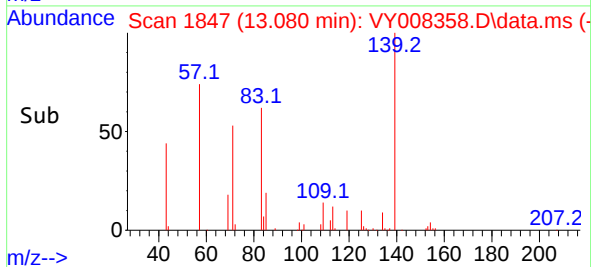
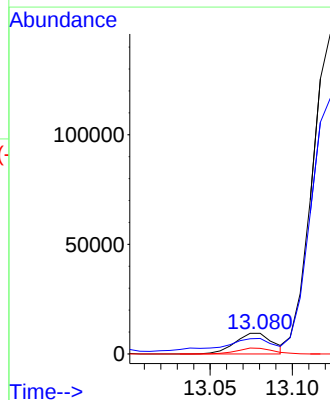
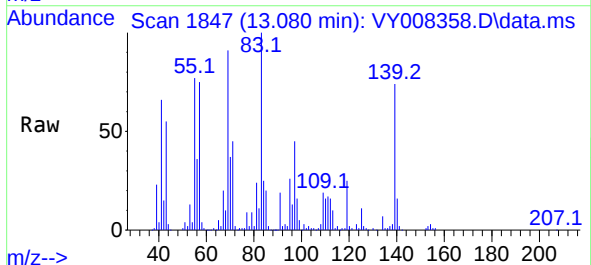
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

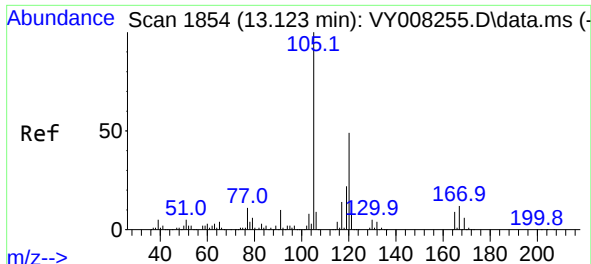
Tgt Ion:105 Resp: 806902  
Ion Ratio Lower Upper  
105 100  
120 52.1 24.4 73.4



#83  
tert-Butylbenzene  
Concen: 12.199 ug/l  
RT: 13.080 min Scan# 1847  
Delta R.T. 0.006 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion:119 Resp: 14985  
Ion Ratio Lower Upper  
119 100  
91 80.9 34.8 104.4  
134 27.0 13.3 39.9

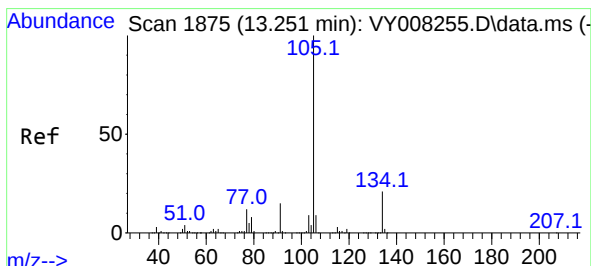
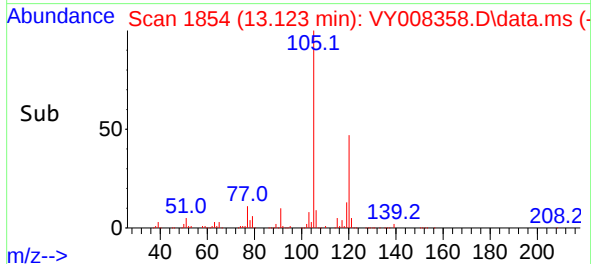
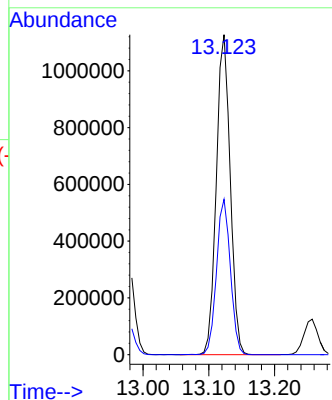
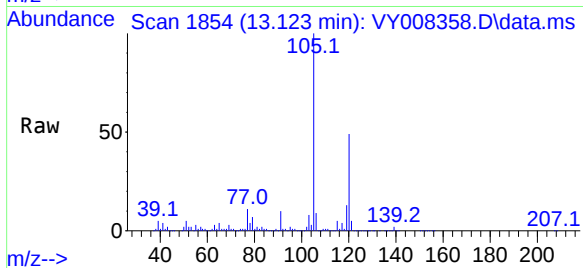




#84  
1,2,4-Trimethylbenzene  
Concen: 1222.737 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. 0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

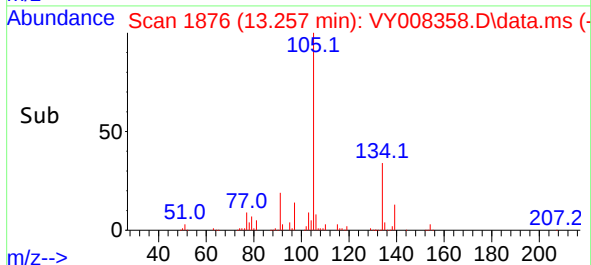
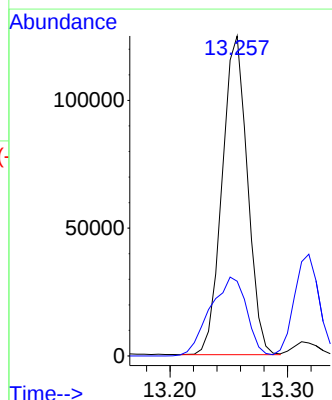
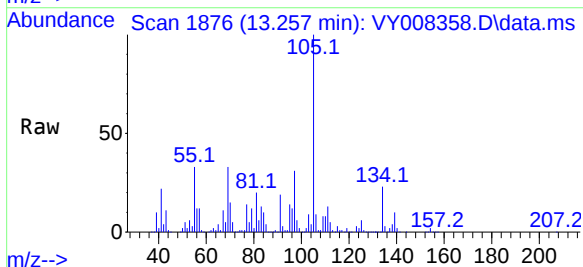
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

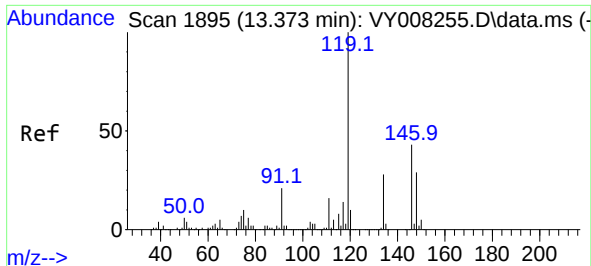
Tgt Ion:105 Resp: 1656827  
Ion Ratio Lower Upper  
105 100  
120 48.6 22.3 66.9



#85  
sec-Butylbenzene  
Concen: 102.286 ug/l  
RT: 13.257 min Scan# 1876  
Delta R.T. 0.006 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion:105 Resp: 186268  
Ion Ratio Lower Upper  
105 100  
134 35.8 10.2 30.4#



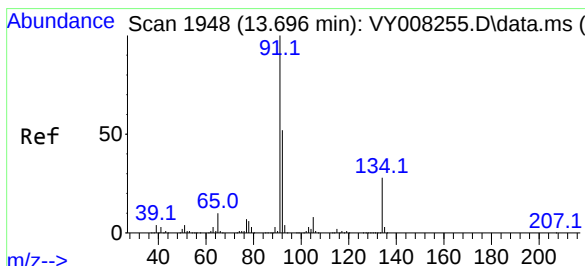
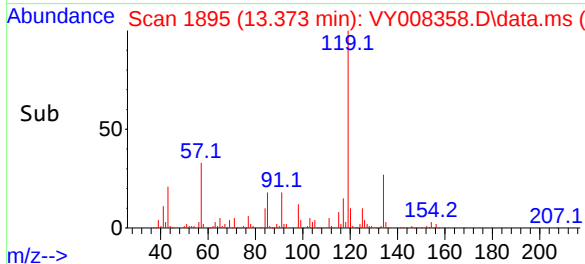
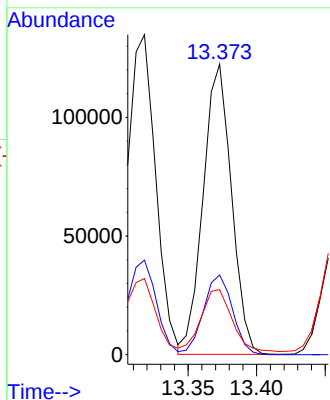
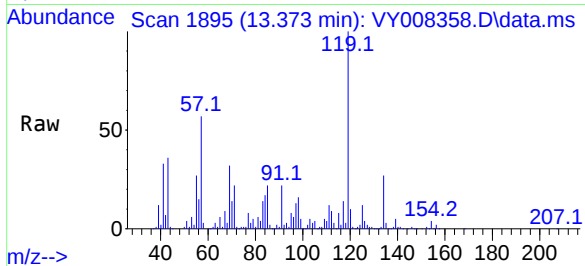


#86  
p-Isopropyltoluene  
Concen: 116.090 ug/l  
RT: 13.373 min Scan# 1895  
Delta R.T. 0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-15-1-1-GR

Tgt Ion:119 Resp: 176415

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 28.1  | 13.2  | 39.5  |
| 91  | 22.8  | 12.4  | 37.2  |



#89  
n-Butylbenzene  
Concen: 70.604 ug/l  
RT: 13.696 min Scan# 1948  
Delta R.T. 0.000 min  
Lab File: VY008358.D  
Acq: 15 Apr 2022 17:59

Tgt Ion: 91 Resp: 96938

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 59.7  | 26.3  | 78.9  |
| 134 | 0.0   | 13.0  | 38.9# |

