

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042121\  
 Data File : VW018722.D  
 Acq On : 21 Apr 2021 19:09  
 Operator : SY/VA  
 Sample : M2129-09  
 Misc : 4.29G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 E0AC5

Quant Time: Apr 22 14:50:06 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Thu Apr 22 01:20:40 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.842  | 114   | 518136   | 25.00    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.628 | 117   | 410227   | 25.00    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.560 | 152   | 151525   | 25.00    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.355  | 65    | 103374   | 13.13    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 52.52%   |
| 7) Chloroethane-d5            | 2.892  | 69    | 102317   | 14.66    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 58.64%   |
| 11) 1,1-Dichloroethene-d2     | 4.019  | 63    | 132811   | 9.71     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 38.84%#  |
| 21) 2-Butanone-d5             | 7.080  | 46    | 38474    | 21.47    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 42.94%   |
| 24) Chloroform-d              | 7.647  | 84    | 270962   | 19.06    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 76.24%   |
| 26) 1,2-Dichloroethane-d4     | 8.305  | 65    | 148097   | 18.52    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 74.08%   |
| 32) Benzene-d6                | 8.275  | 84    | 466459   | 19.38    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 77.52%   |
| 36) 1,2-Dichloropropane-d6    | 9.275  | 67    | 158327   | 21.83    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 87.32%   |
| 41) Toluene-d8                | 10.323 | 98    | 375795   | 17.07    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 68.28%   |
| 43) trans-1,3-Dichloroprop... | 10.579 | 79    | 55082    | 17.84    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 71.36%   |
| 47) 2-Hexanone-d5             | 10.927 | 63    | 42063    | 33.35    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 66.70%   |
| 56) 1,1,2,2-Tetrachloroeth... | 12.689 | 84    | 115996   | 19.15    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 76.60%   |
| 66) 1,2-Dichlorobenzene-d4    | 13.853 | 152   | 104566   | 19.64    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 78.56%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 8) Chloroethane               | 2.928  | 64    | 3650027  | 589.05   | ug/L   | 99       |
| 13) Acetone                   | 4.123  | 43    | 183402   | 140.97   | ug/L   | 88       |
| 16) Methylene chloride        | 4.922  | 84    | 62109    | 7.31     | ug/L   | 87       |
| 19) 1,1-Dichloroethane        | 6.220  | 63    | 167492   | 12.43    | ug/L   | 98       |
| 22) 2-Butanone                | 7.171  | 43    | 68279    | 34.54    | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 8.403  | 62    | 6415     | 0.69     | ug/L # | 90       |
| 29) Cyclohexane               | 7.958  | 56    | 6857     | 0.68     | ug/L   | 98       |
| 33) Benzene                   | 8.324  | 78    | 252887   | 9.82     | ug/L   | 100      |
| 35) Methylcyclohexane         | 9.336  | 83    | 3405     | 0.30     | ug/L # | 70       |
| 40) 4-Methyl-2-pentanone      | 10.213 | 43    | 13825    | 3.45     | ug/L   | 91       |
| 42) Toluene                   | 10.390 | 91    | 142676   | 5.16     | ug/L   | 99       |
| 51) Chlorobenzene             | 11.658 | 112   | 17665    | 1.04     | ug/L   | 97       |
| 52) Ethylbenzene              | 11.731 | 91    | 2339445  | 76.59    | ug/L   | 98       |
| 53) m,p-Xylene                | 11.841 | 106   | 583185   | 52.04    | ug/L   | 94       |
| 54) o-Xylene                  | 12.164 | 106   | 439233   | 40.83    | ug/L   | 97       |
| 60) Isopropylbenzene          | 12.463 | 105   | 262360   | 11.77    | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.945 | 105   | 249486   | 13.51    | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.249 | 105   | 707664   | 38.41    | ug/L   | 100      |
| 65) 1,4-Dichlorobenzene       | 13.579 | 146   | 52021    | 5.45     | ug/L   | 92       |

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Sample : M2129-09  
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ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
E0AC5

Quant Time: Apr 22 14:50:06 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Apr 22 01:20:40 2021  
Response via : Initial Calibration

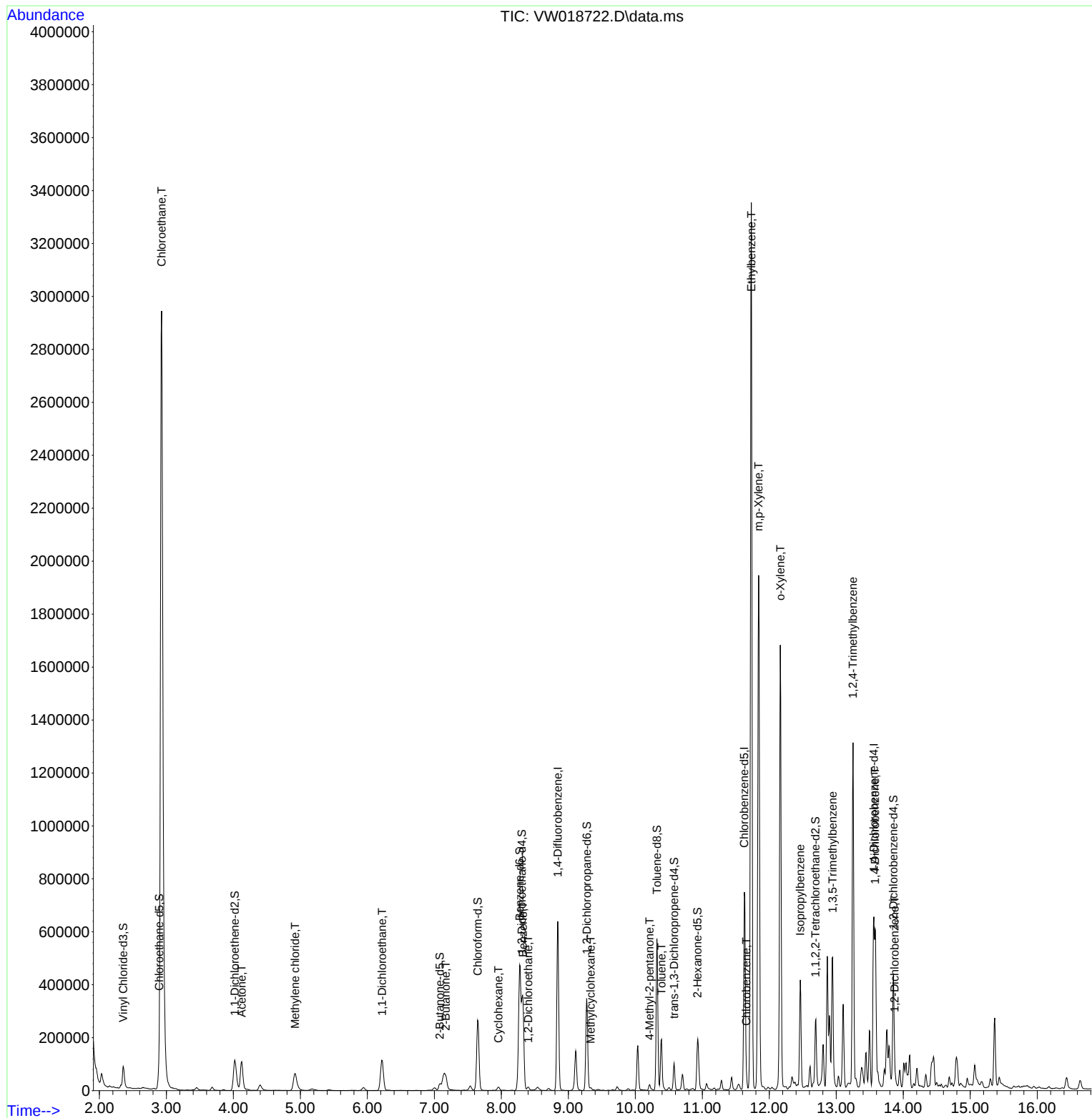
| Compound                | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------|--------|------|----------|------|--------|----------|
| 67) 1,2-Dichlorobenzene | 13.871 | 146  | 3719     | 0.43 | ug/L # | 85       |

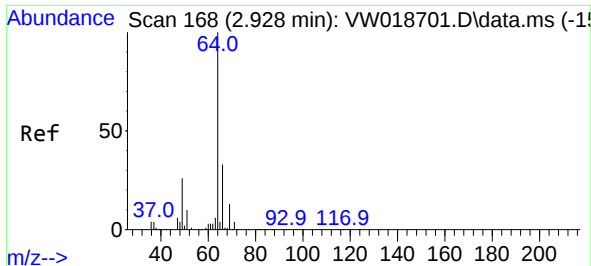
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0  
QLast Update : Thu Apr 22 01:20:40 2021  
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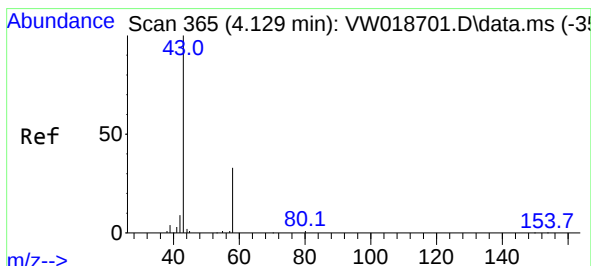
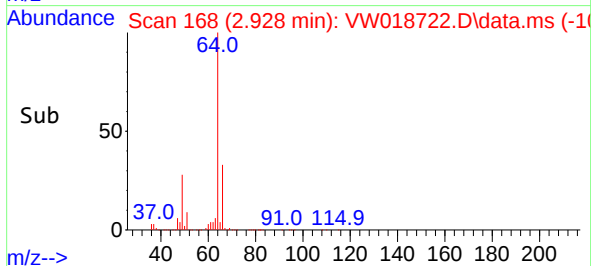
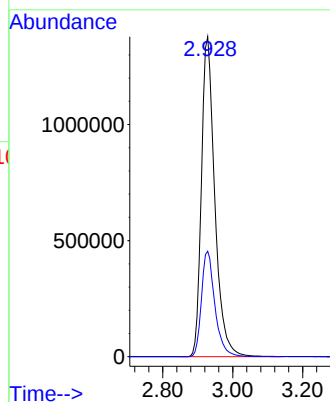
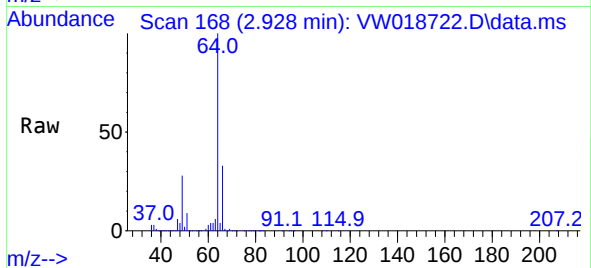




#8  
Chloroethane  
Concen: 589.05 ug/L  
RT: 2.928 min Scan# 168  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

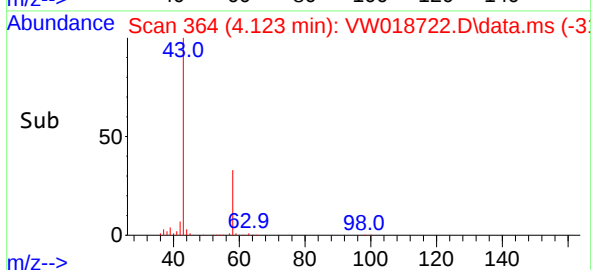
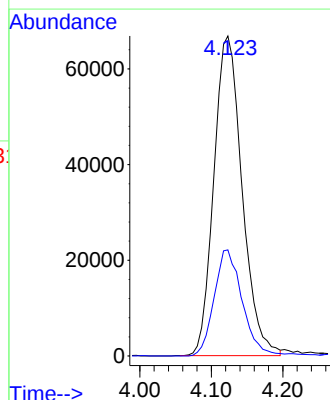
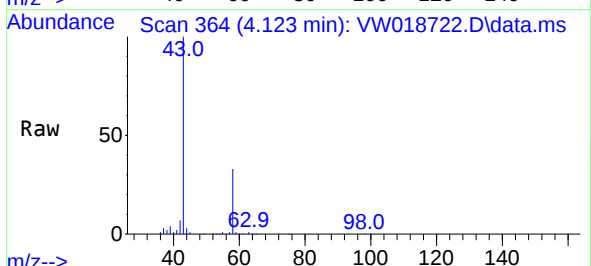
Instrument :  
MSVOA\_W  
ClientSampleId :  
E0AC5

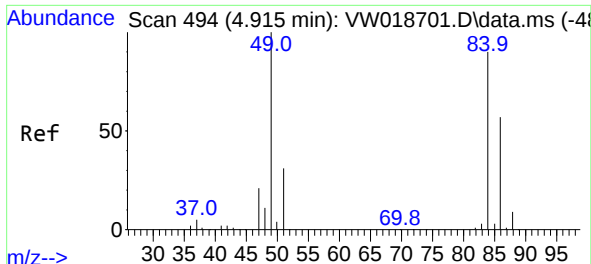
Tgt Ion: 64 Resp: 3650027  
Ion Ratio Lower Upper  
64 100  
66 33.0 23.4 43.6



#13  
Acetone  
Concen: 140.97 ug/L  
RT: 4.123 min Scan# 364  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion: 43 Resp: 183402  
Ion Ratio Lower Upper  
43 100  
58 32.9 0.0 53.8

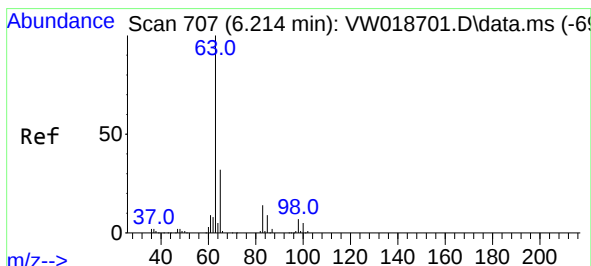
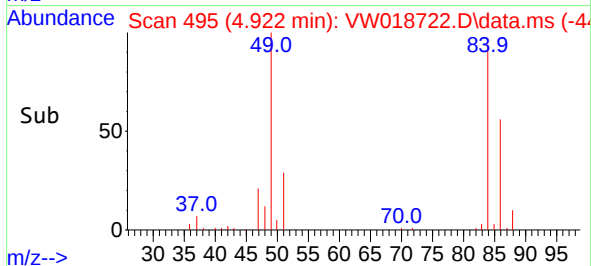
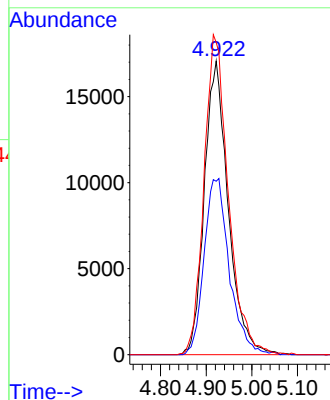
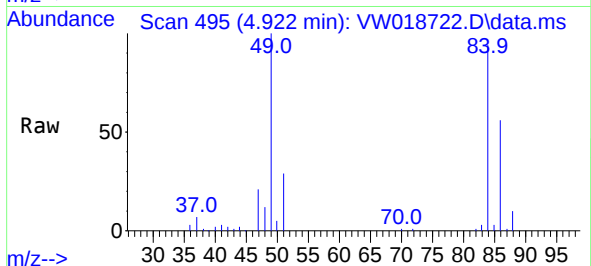




#16  
Methylene chloride  
Concen: 7.31 ug/L  
RT: 4.922 min Scan# 495  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

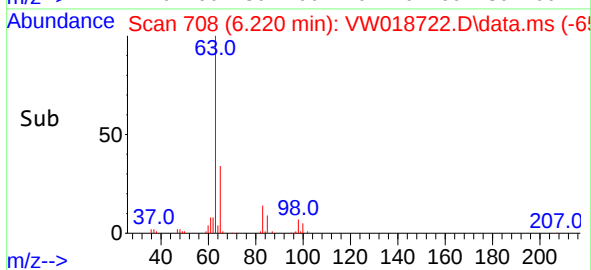
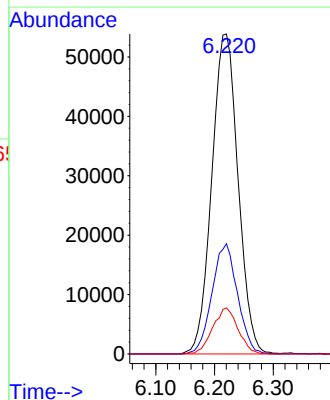
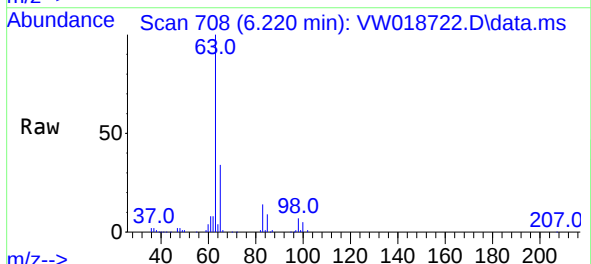
Instrument :  
MSVOA\_W  
ClientSampled :  
E0AC5

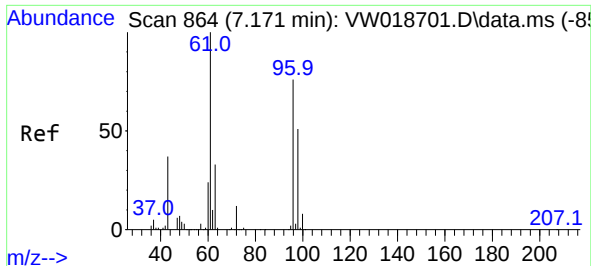
Tgt Ion: 84 Resp: 62109  
Ion Ratio Lower Upper  
84 100  
86 59.1 45.3 84.1  
49 106.3 86.6 160.8



#19  
1,1-Dichloroethane  
Concen: 12.43 ug/L  
RT: 6.220 min Scan# 708  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

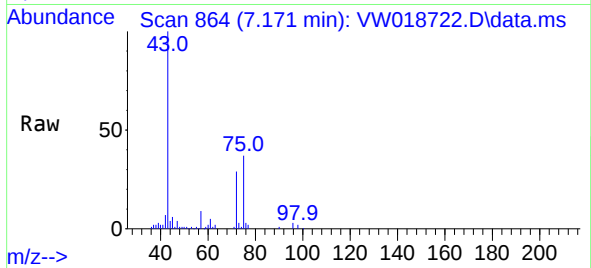
Tgt Ion: 63 Resp: 167492  
Ion Ratio Lower Upper  
63 100  
65 34.4 22.9 42.5  
83 14.4 10.2 19.0



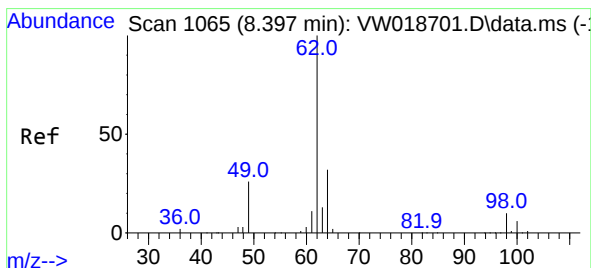
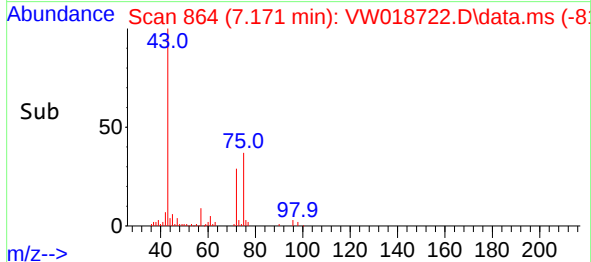
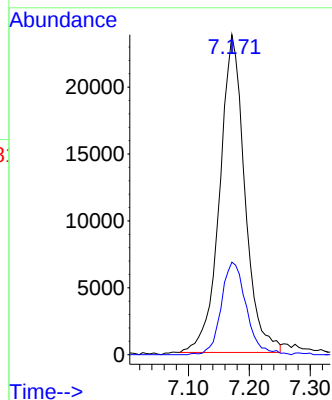


#22  
2-Butanone  
Concen: 34.54 ug/L  
RT: 7.171 min Scan# 864  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Instrument :  
MSVOA\_W  
ClientSampled :  
E0AC5

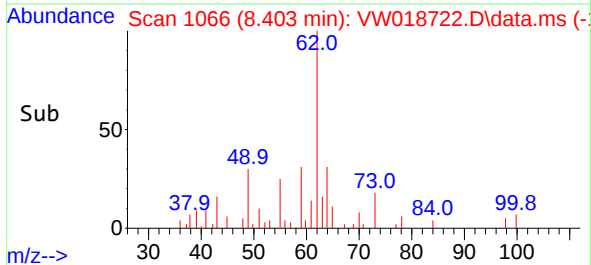
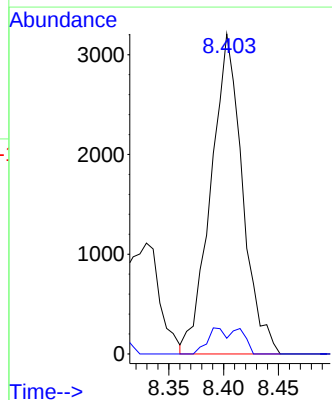
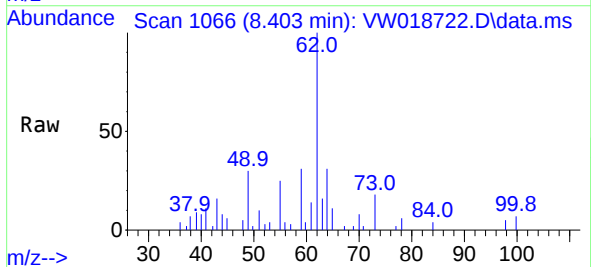


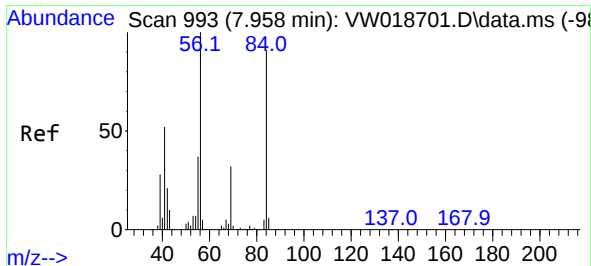
Tgt Ion: 43 Resp: 68279  
Ion Ratio Lower Upper  
43 100  
72 28.4 14.9 44.7



#27  
1,2-Dichloroethane  
Concen: 0.69 ug/L  
RT: 8.403 min Scan# 1066  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion: 62 Resp: 6415  
Ion Ratio Lower Upper  
62 100  
98 4.9 6.9 10.3#

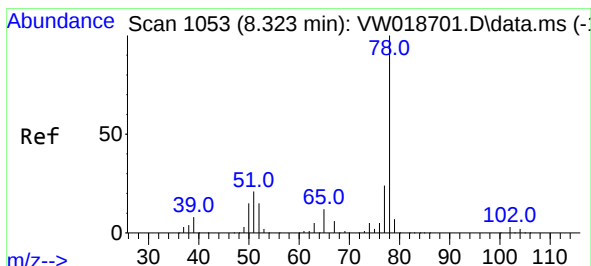
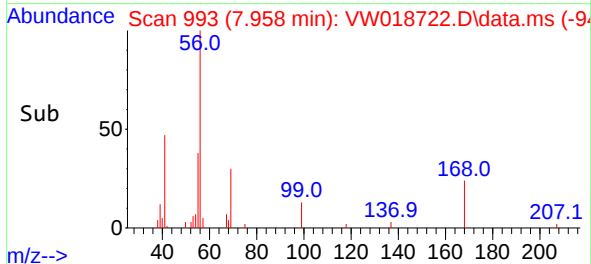
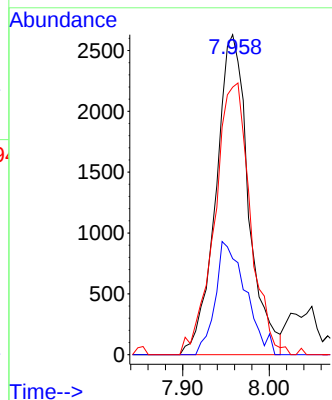
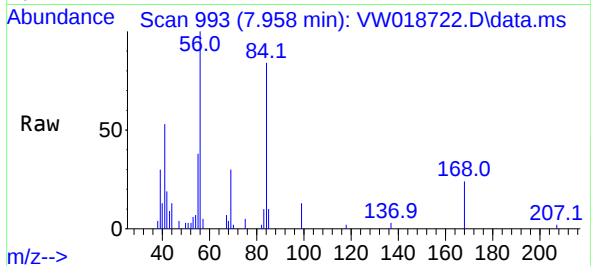




#29  
Cyclohexane  
Concen: 0.68 ug/L  
RT: 7.958 min Scan# 993  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

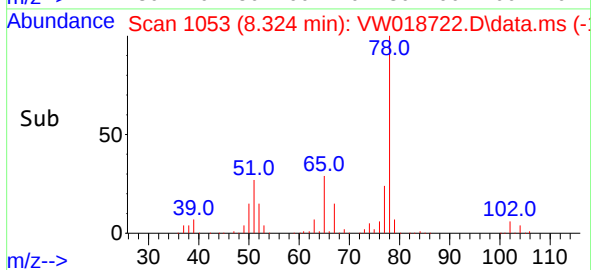
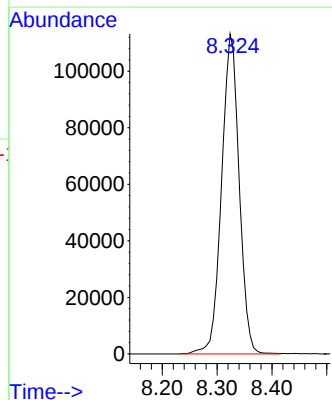
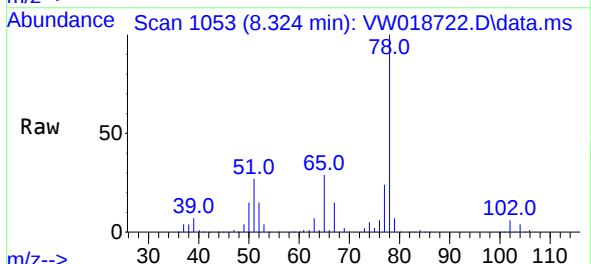
Instrument :  
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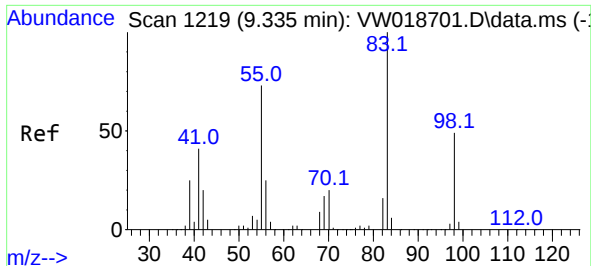
Tgt Ion: 56 Resp: 6857  
Ion Ratio Lower Upper  
56 100  
69 32.1 24.5 36.7  
84 92.3 75.0 112.4



#33  
Benzene  
Concen: 9.82 ug/L  
RT: 8.324 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion: 78 Resp: 252887

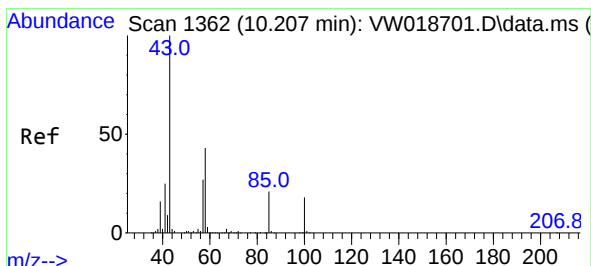
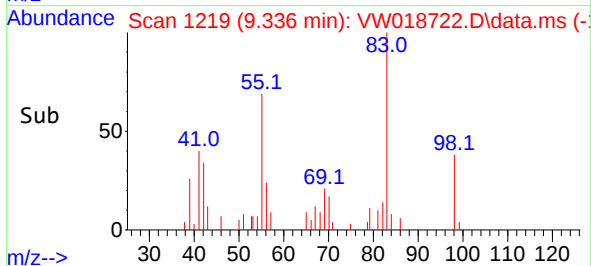
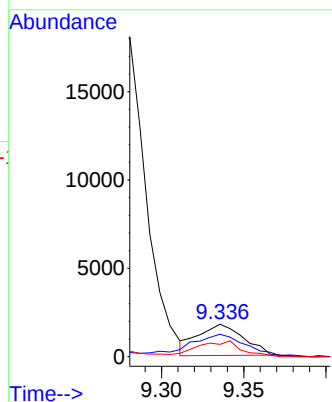
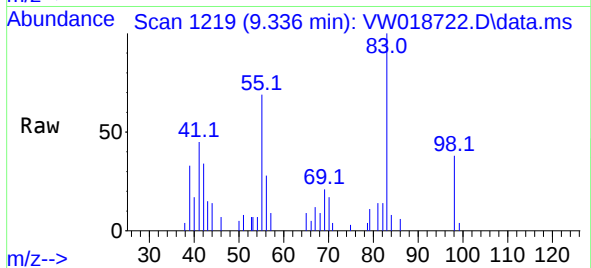




#35  
Methylcyclohexane  
Concen: 0.30 ug/L  
RT: 9.336 min Scan# 1219  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

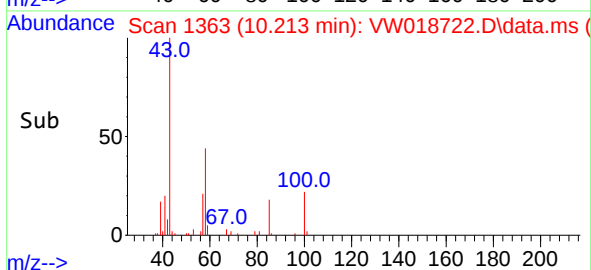
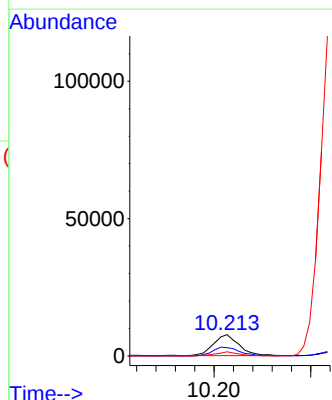
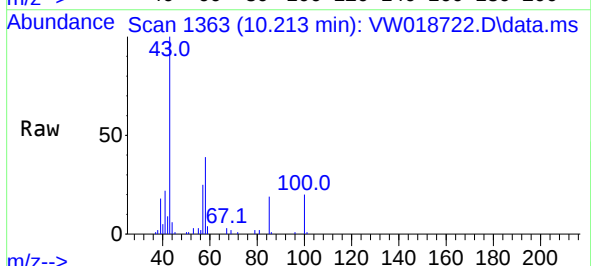
Instrument :  
MSVOA\_W  
ClientSampled :  
E0AC5

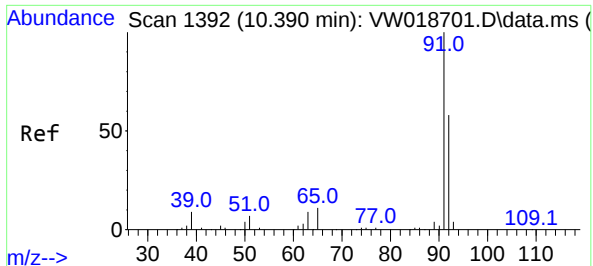
Tgt Ion: 83 Resp: 3405  
Ion Ratio Lower Upper  
83 100  
55 90.2 58.9 88.3#  
98 19.2 40.1 60.1#



#40  
4-Methyl-2-pentanone  
Concen: 3.45 ug/L  
RT: 10.213 min Scan# 1363  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion: 43 Resp: 13825  
Ion Ratio Lower Upper  
43 100  
58 45.3 31.0 46.4  
100 18.4 13.0 19.6

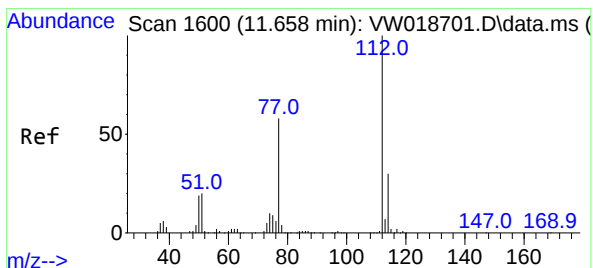
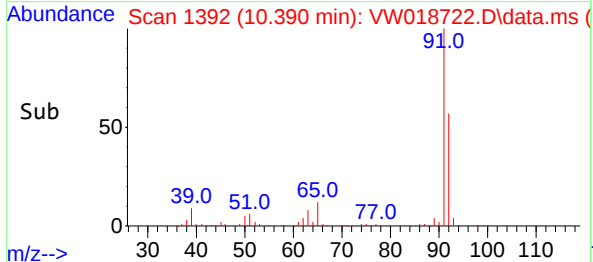
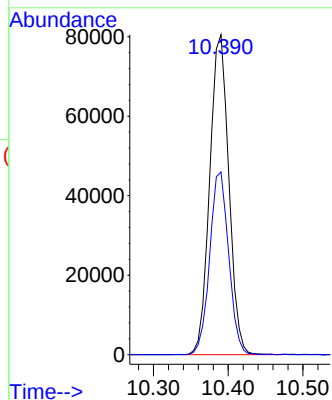
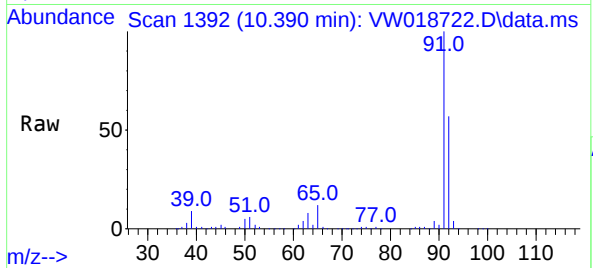




#42  
Toluene  
Concen: 5.16 ug/L  
RT: 10.390 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

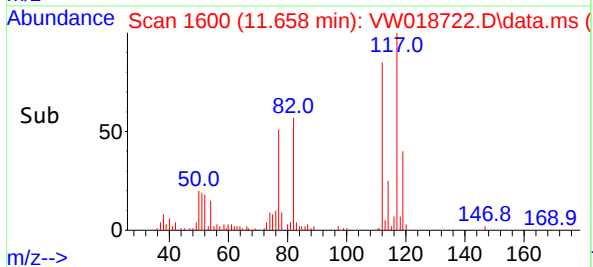
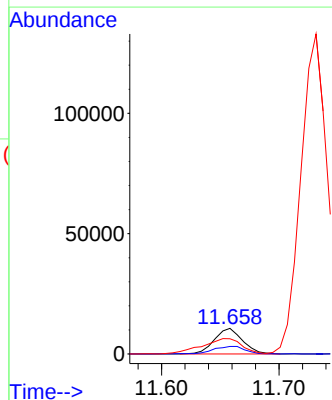
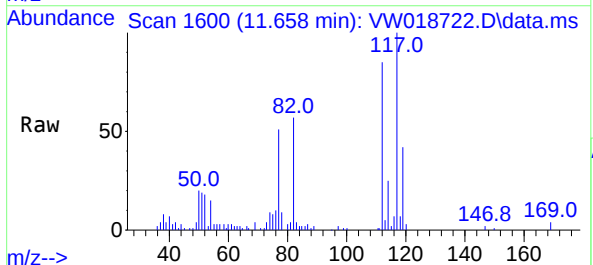
Instrument :  
MSVOA\_W  
ClientSampled :  
E0AC5

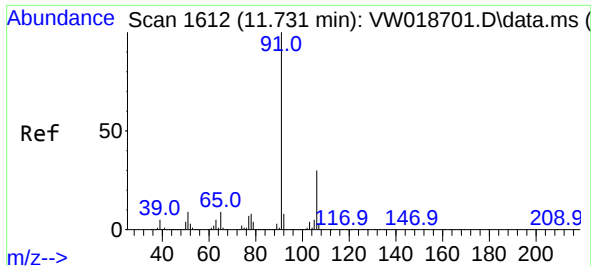
Tgt Ion: 91 Resp: 142676  
Ion Ratio Lower Upper  
91 100  
92 57.1 39.5 73.3



#51  
Chlorobenzene  
Concen: 1.04 ug/L  
RT: 11.658 min Scan# 1600  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion: 112 Resp: 17665  
Ion Ratio Lower Upper  
112 100  
114 29.4 23.4 43.6  
77 59.6 47.6 71.4

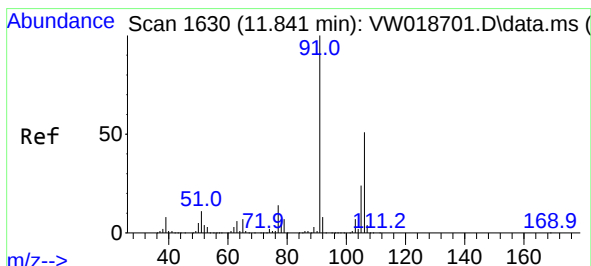
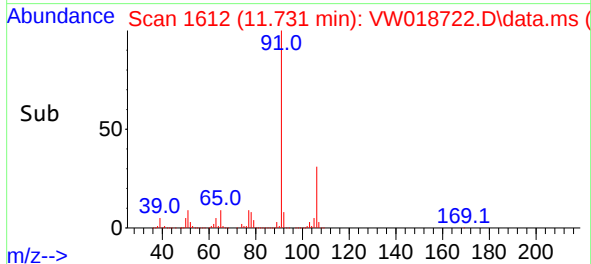
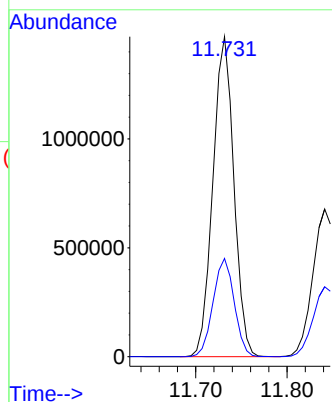
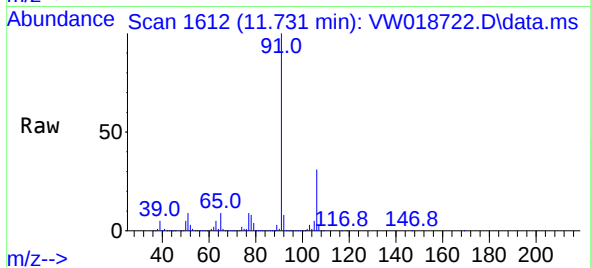




#52  
Ethylbenzene  
Concen: 76.59 ug/L  
RT: 11.731 min Scan# 1612  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

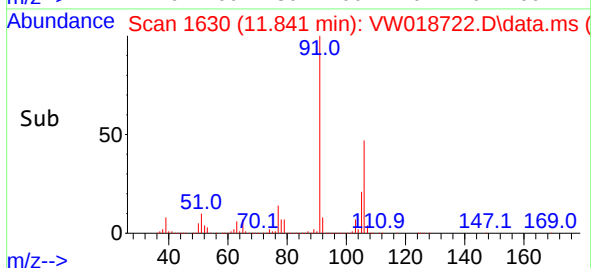
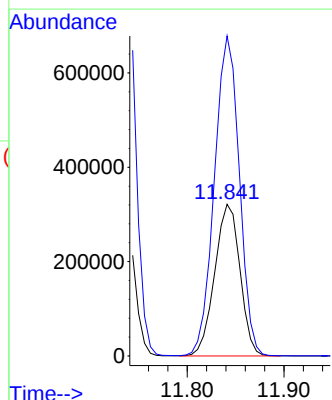
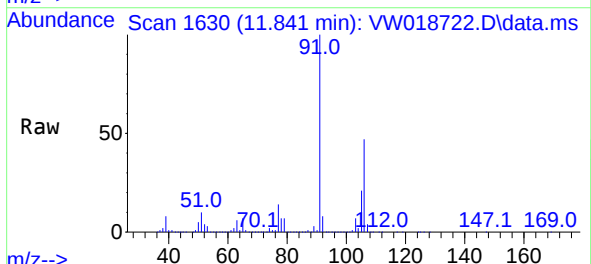
Instrument :  
MSVOA\_W  
ClientSampled :  
E0AC5

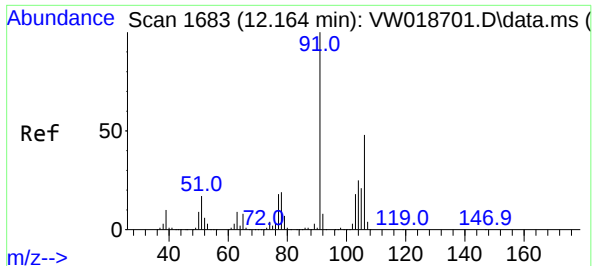
Tgt Ion: 91 Resp: 2339445  
Ion Ratio Lower Upper  
91 100  
106 30.7 22.5 41.7



#53  
m,p-Xylene  
Concen: 52.04 ug/L  
RT: 11.841 min Scan# 1630  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion:106 Resp: 583185  
Ion Ratio Lower Upper  
106 100  
91 211.0 141.3 262.3

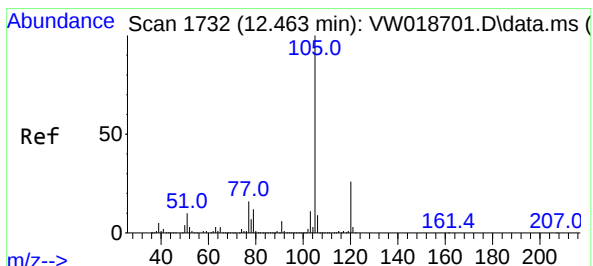
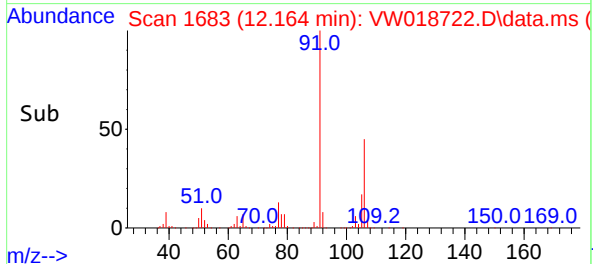
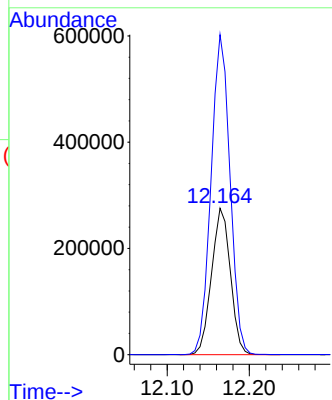
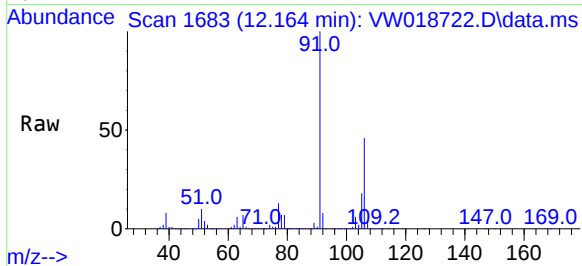




#54  
o-Xylene  
Concen: 40.83 ug/L  
RT: 12.164 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

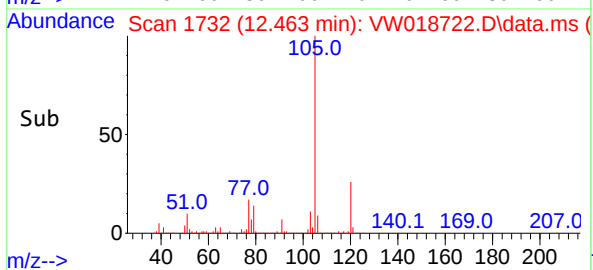
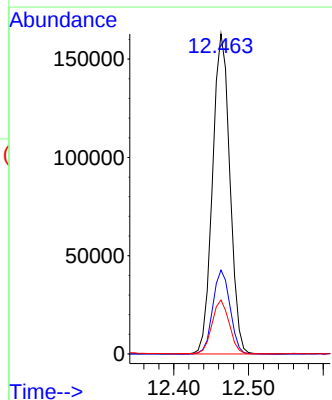
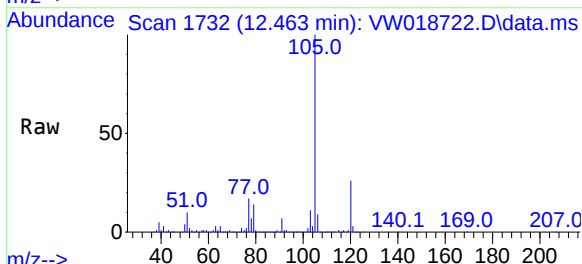
Instrument :  
MSVOA\_W  
ClientSampled :  
E0AC5

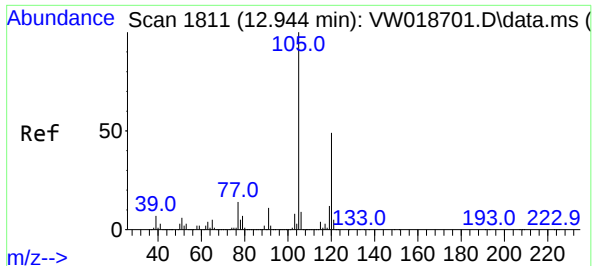
Tgt Ion:106 Resp: 439233  
Ion Ratio Lower Upper  
106 100  
91 218.5 150.0 278.6



#60  
Isopropylbenzene  
Concen: 11.77 ug/L  
RT: 12.463 min Scan# 1732  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion:105 Resp: 262360  
Ion Ratio Lower Upper  
105 100  
120 26.0 21.1 31.7  
77 16.6 13.2 19.8

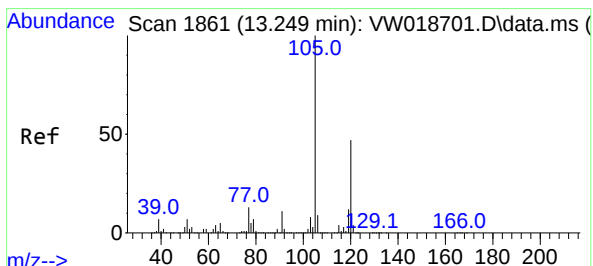
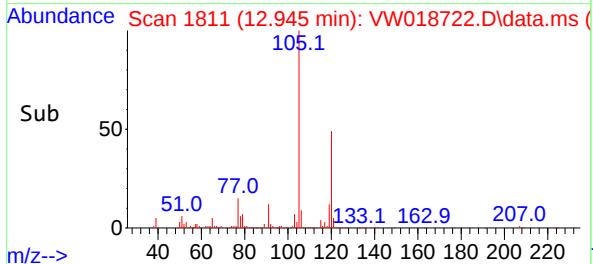
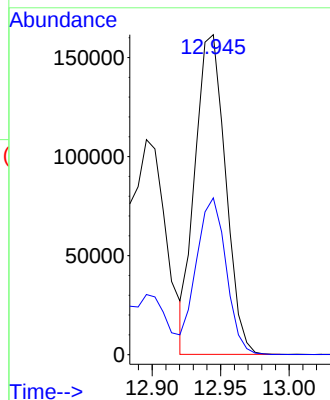
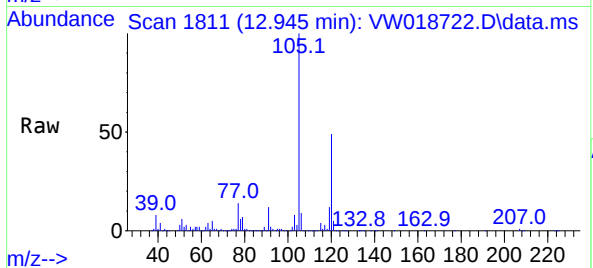




#62  
1,3,5-Trimethylbenzene  
Concen: 13.51 ug/L  
RT: 12.945 min Scan# 1811  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

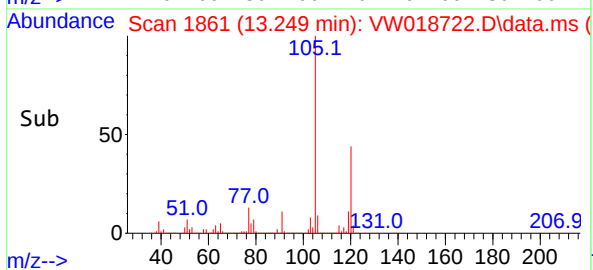
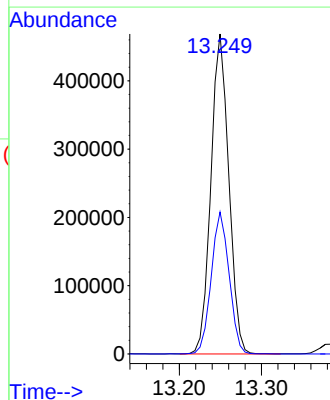
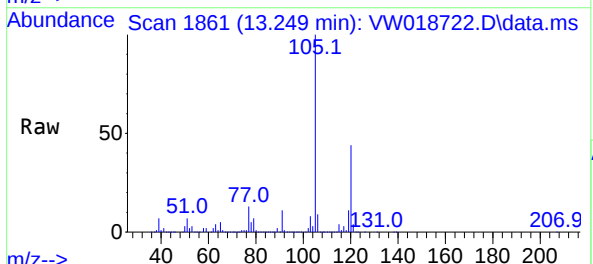
Instrument :  
MSVOA\_W  
ClientSampleId :  
E0AC5

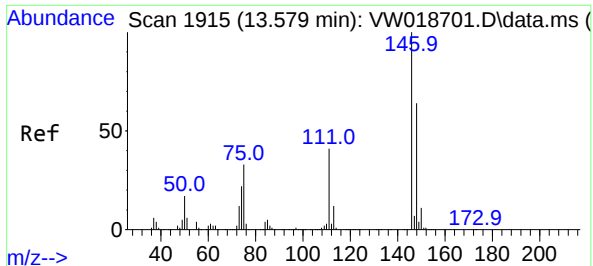
Tgt Ion:105 Resp: 249486  
Ion Ratio Lower Upper  
105 100  
120 48.0 39.0 58.6



#63  
1,2,4-Trimethylbenzene  
Concen: 38.41 ug/L  
RT: 13.249 min Scan# 1861  
Delta R.T. 0.000 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Tgt Ion:105 Resp: 707664  
Ion Ratio Lower Upper  
105 100  
120 44.3 35.6 53.4

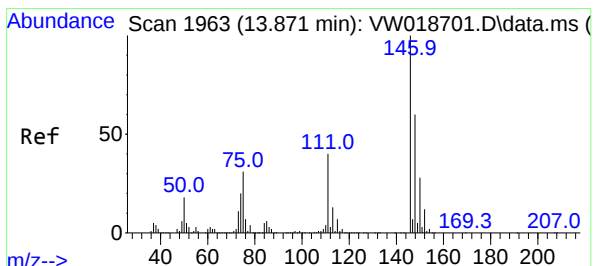
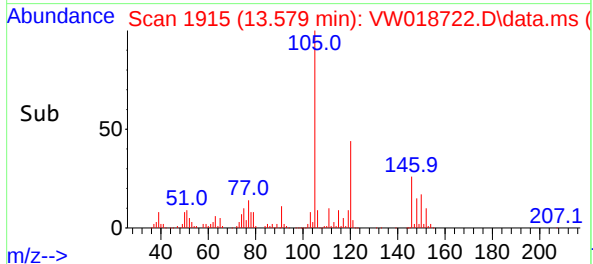
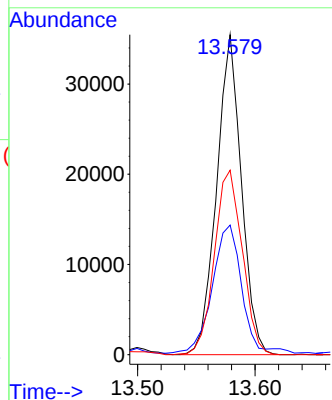
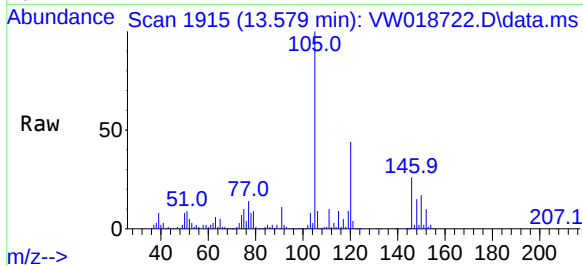




#65  
1,4-Dichlorobenzene  
Concen: 5.45 ug/L  
RT: 13.579 min Scan# 1915  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
E0AC5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 52021 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 40.5  | 28.8  | 53.4  |
| 148       | 57.6  | 46.8  | 87.0  |



#67  
1,2-Dichlorobenzene  
Concen: 0.43 ug/L  
RT: 13.871 min Scan# 1963  
Delta R.T. 0.007 min  
Lab File: VW018722.D  
Acq: 21 Apr 2021 19:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 3719  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 61.6  | 33.2  | 49.8# |
| 148       | 60.1  | 50.4  | 75.6  |

