

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031121\  
 Data File : VY004079.D  
 Acq On : 11 Mar 2021 16:04  
 Operator : SY/MD  
 Sample : M1616-01  
 Misc : 6.86g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-19-A

Quant Time: Mar 12 01:19:10 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 08 12:28:55 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.801  | 168  | 198579   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.697  | 114  | 346841   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.495 | 117  | 315446   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 152617   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.154  | 65    | 114923   | 58.64    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 117.28% |
| 35) Dibromofluoromethane  | 7.734  | 113   | 106592   | 54.50    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 109.00% |
| 50) Toluene-d8            | 10.185 | 98    | 413848   | 53.97    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 107.94% |
| 62) 4-Bromofluorobenzene  | 12.483 | 95    | 166274   | 58.71    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 117.42% |

## Target Compounds

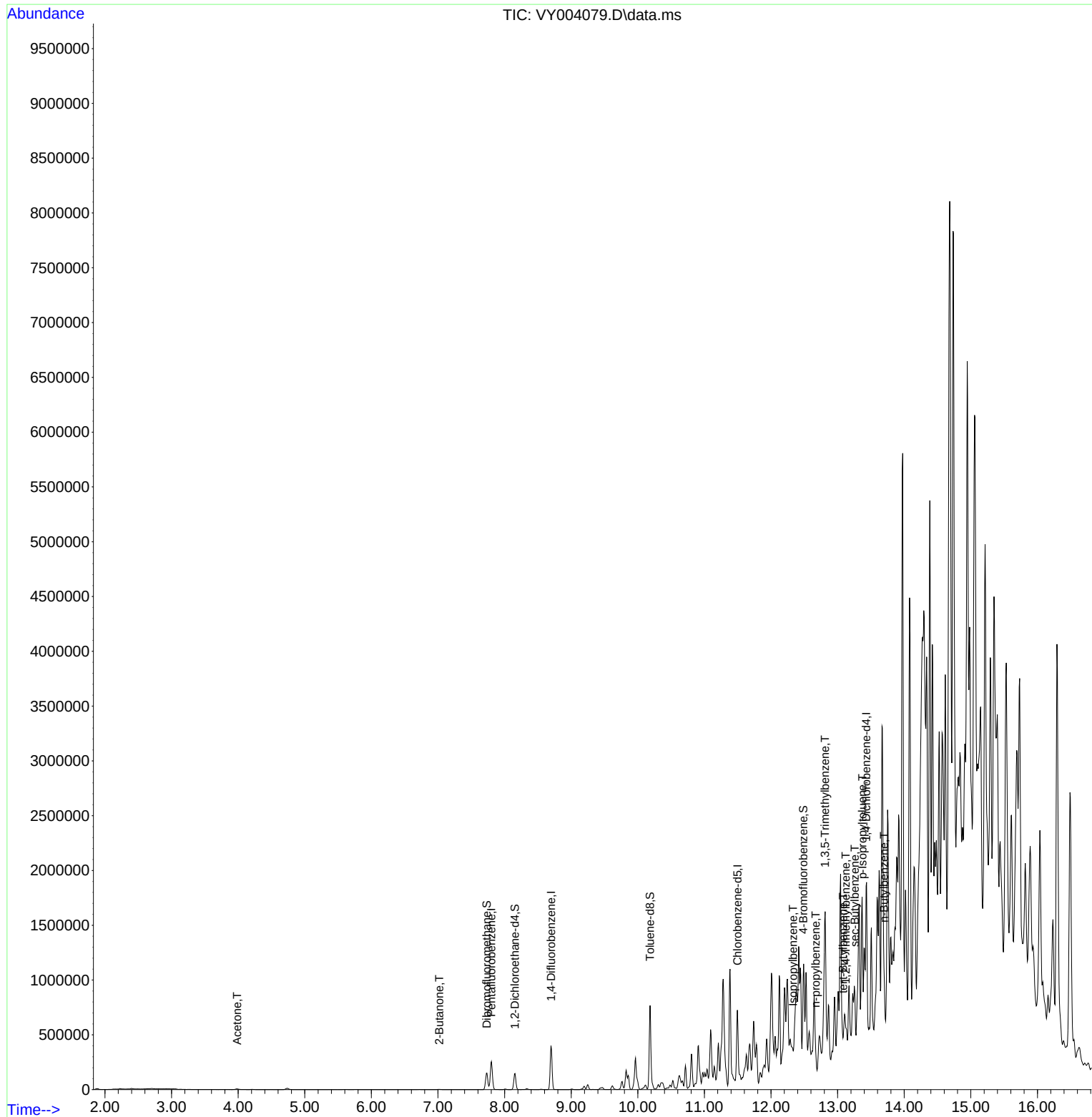
|                            |        |     |        |       |        | Qvalue |
|----------------------------|--------|-----|--------|-------|--------|--------|
| 16) Acetone                | 3.984  | 43  | 14930  | 31.56 | ug/l   | 95     |
| 25) 2-Butanone             | 7.020  | 43  | 4793   | 7.03  | ug/l   | 97     |
| 73) Isopropylbenzene       | 12.330 | 105 | 11600  | 1.09  | ug/l   | 93     |
| 78) n-propylbenzene        | 12.672 | 91  | 37313  | 2.99  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.812 | 105 | 188061 | 20.91 | ug/l   | 98     |
| 83) tert-Butylbenzene      | 13.080 | 119 | 23883  | 3.09  | ug/l   | 93     |
| 84) 1,2,4-Trimethylbenzene | 13.123 | 105 | 33396  | 3.71  | ug/l   | 96     |
| 85) sec-Butylbenzene       | 13.257 | 105 | 200796 | 18.81 | ug/l # | 78     |
| 86) p-Isopropyltoluene     | 13.373 | 119 | 147784 | 14.93 | ug/l   | 99     |
| 89) n-Butylbenzene         | 13.696 | 91  | 196720 | 20.89 | ug/l # | 62     |

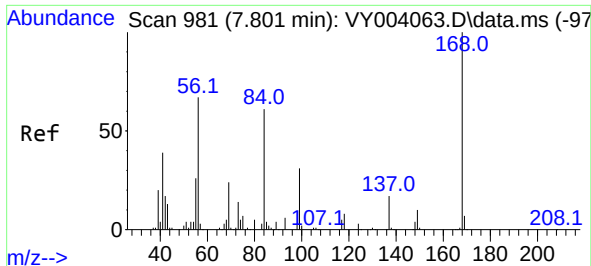
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031121\  
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Sample : M1616-01  
Misc : 6.86g/5mL/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-19-A

Quant Time: Mar 12 01:19:10 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 08 12:28:55 2021  
Response via : Initial Calibration

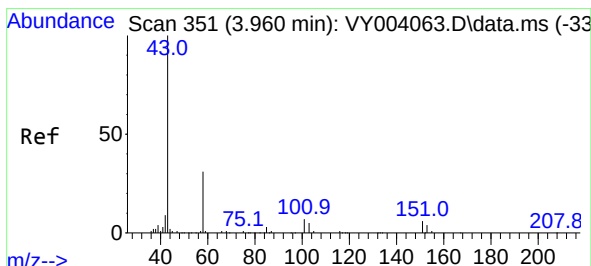
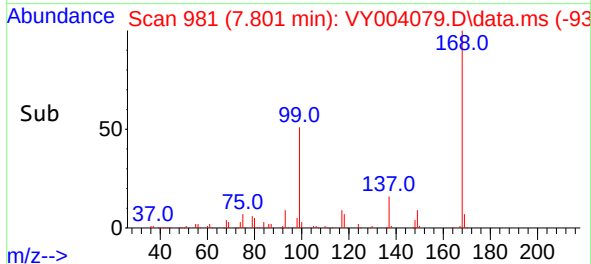
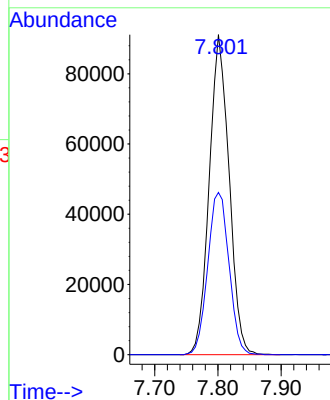
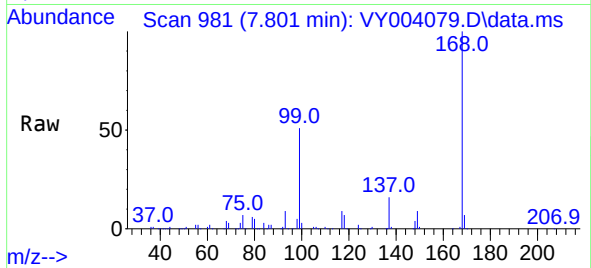




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

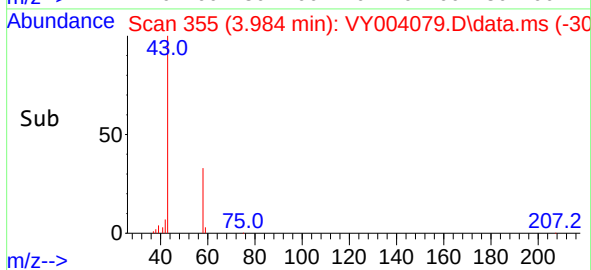
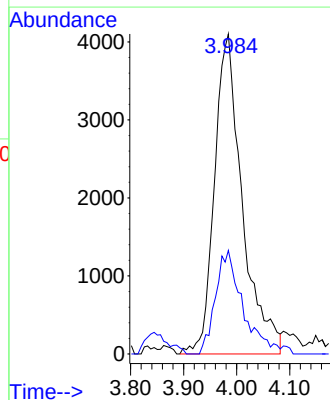
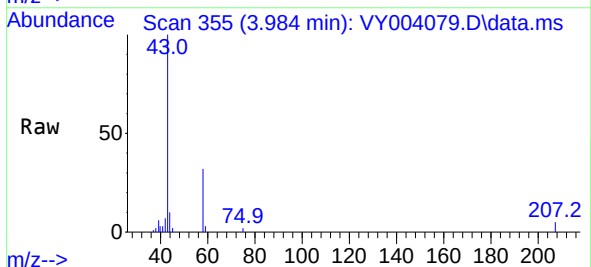
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-19-A

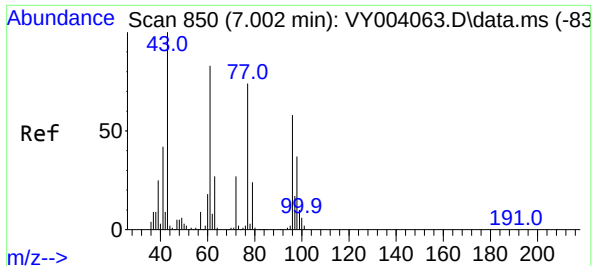
Tgt Ion:168 Resp: 198579  
Ion Ratio Lower Upper  
168 100  
99 50.7 41.2 61.8



#16  
Acetone  
Concen: 31.56 ug/l  
RT: 3.984 min Scan# 355  
Delta R.T. 0.024 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion: 43 Resp: 14930  
Ion Ratio Lower Upper  
43 100  
58 30.8 22.6 34.0

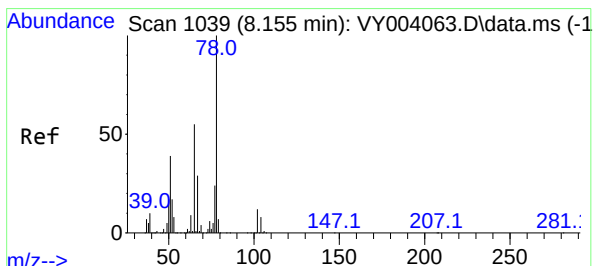
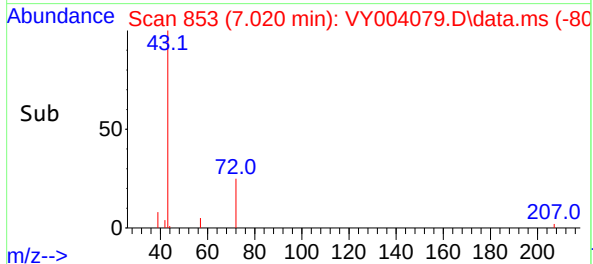
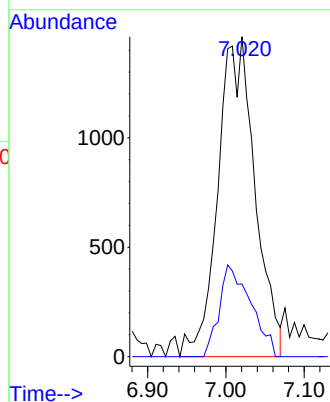
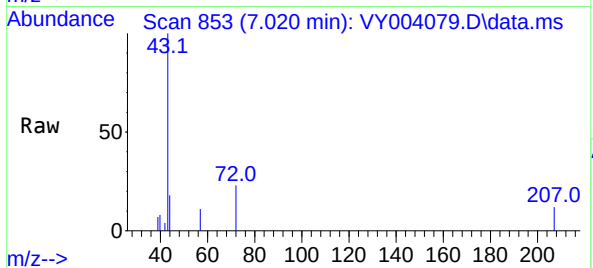




#25  
2-Butanone  
Concen: 7.03 ug/l  
RT: 7.020 min Scan# 853  
Delta R.T. 0.018 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

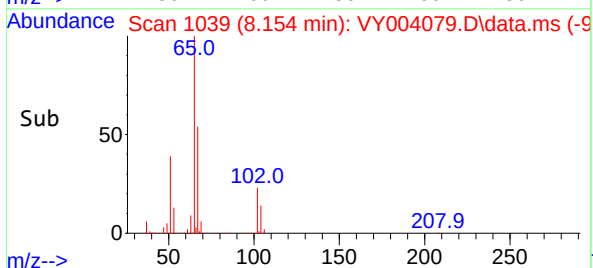
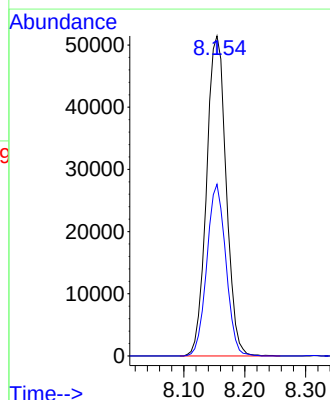
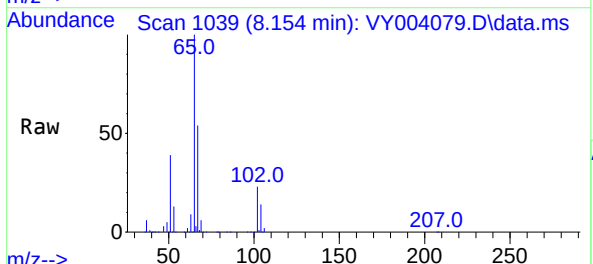
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-19-A

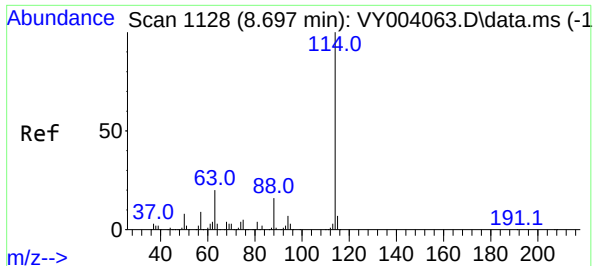
Tgt Ion: 43 Resp: 4793  
Ion Ratio Lower Upper  
43 100  
72 22.7 19.4 29.0



#33  
1,2-Dichloroethane-d4  
Concen: 58.64 ug/l  
RT: 8.154 min Scan# 1039  
Delta R.T. -0.001 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion: 65 Resp: 114923  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VY004079.D

Acq: 11 Mar 2021 16:04

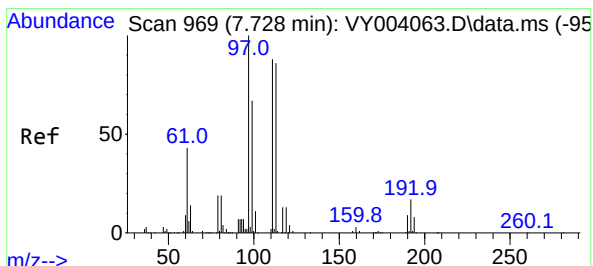
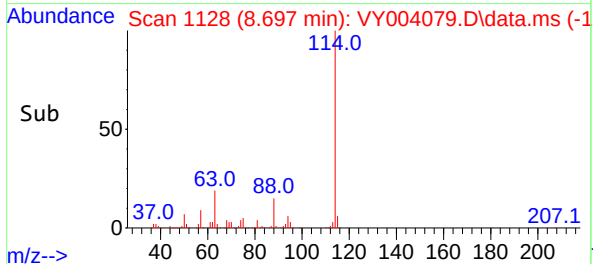
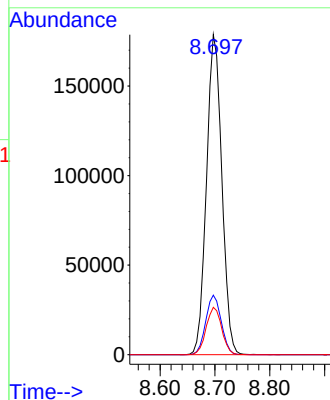
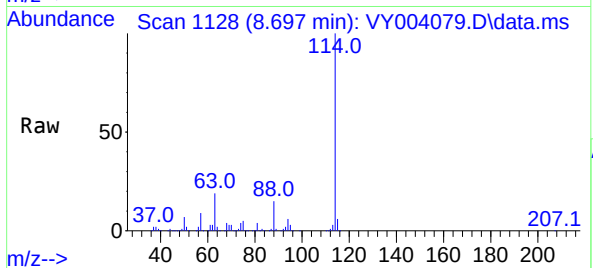
Tgt Ion:114 Resp: 346841

Ion Ratio Lower Upper

114 100

63 18.6 0.0 41.6

88 14.8 0.0 31.4



#35

Dibromofluoromethane

Concen: 54.50 ug/l

RT: 7.734 min Scan# 970

Delta R.T. 0.006 min

Lab File: VY004079.D

Acq: 11 Mar 2021 16:04

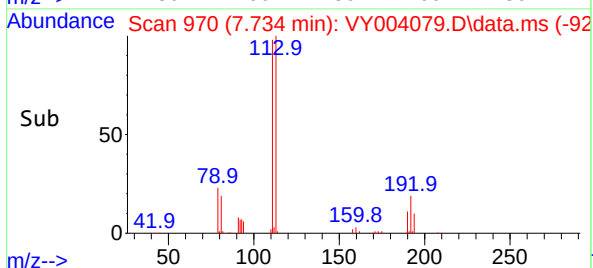
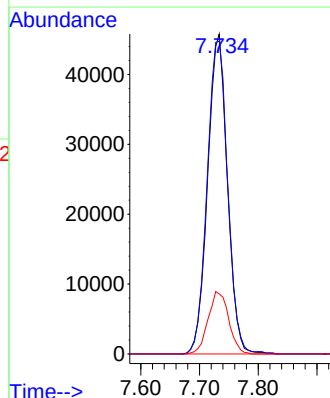
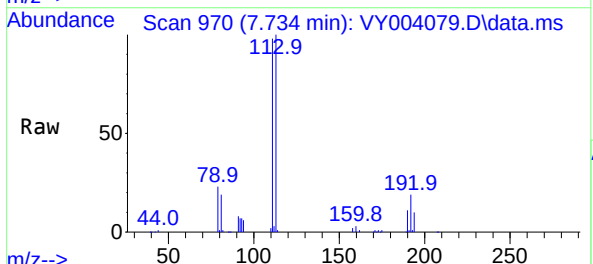
Tgt Ion:113 Resp: 106592

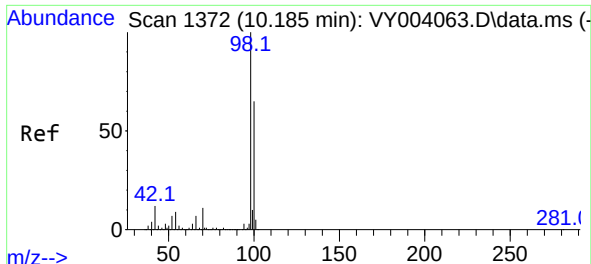
Ion Ratio Lower Upper

113 100

111 102.5 83.2 124.8

192 20.4 18.5 27.7

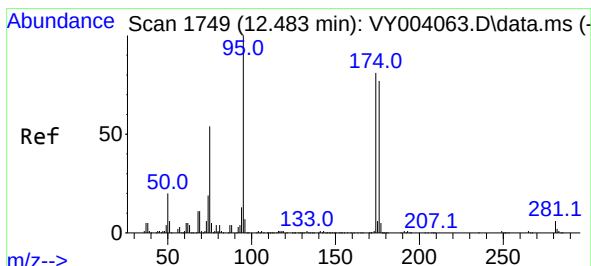
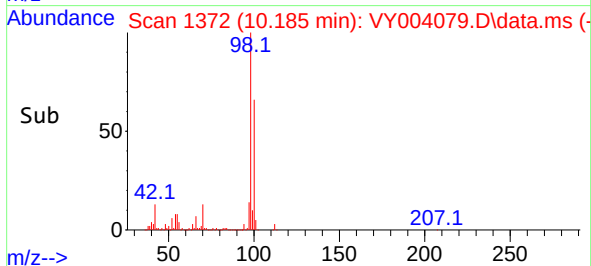
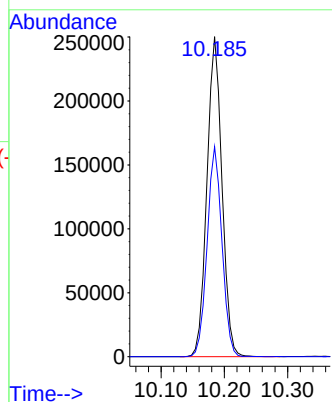
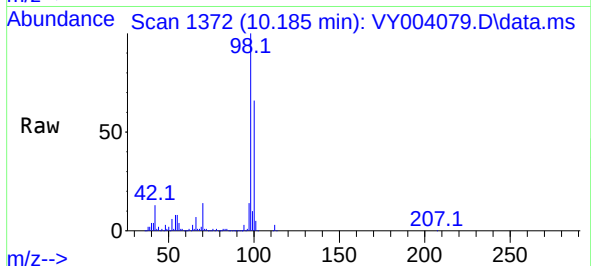




#50  
Toluene-d8  
Concen: 53.97 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

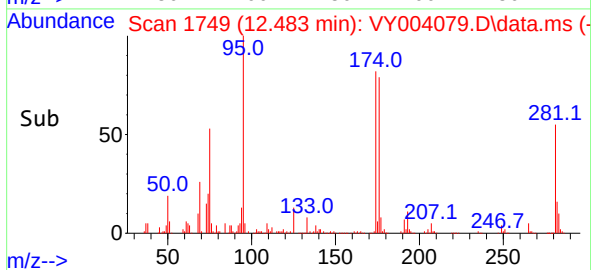
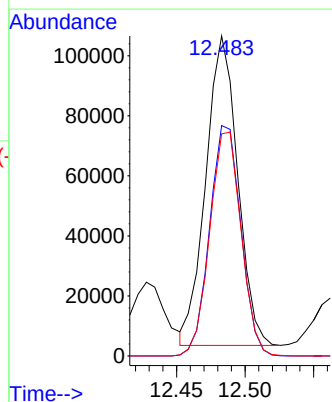
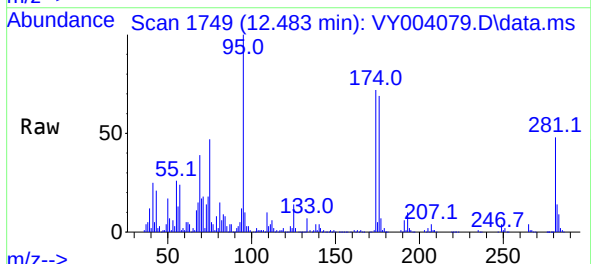
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-19-A

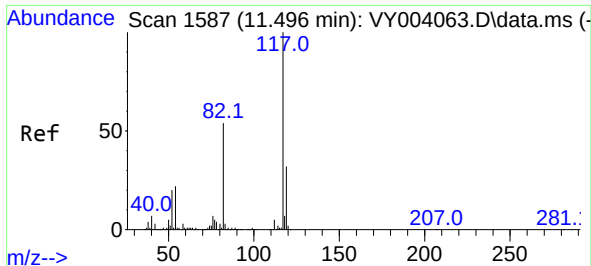
Tgt Ion: 98 Resp: 413848  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.8 77.6



#62  
4-Bromofluorobenzene  
Concen: 58.71 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion: 95 Resp: 166274  
Ion Ratio Lower Upper  
95 100  
174 73.3 0.0 179.0  
176 71.5 0.0 174.4



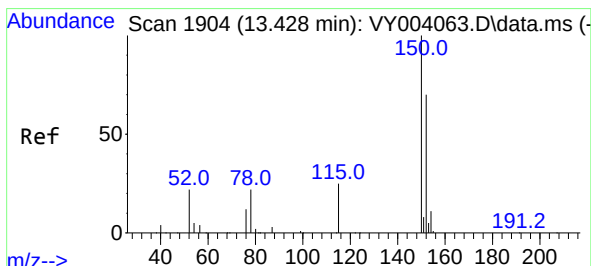
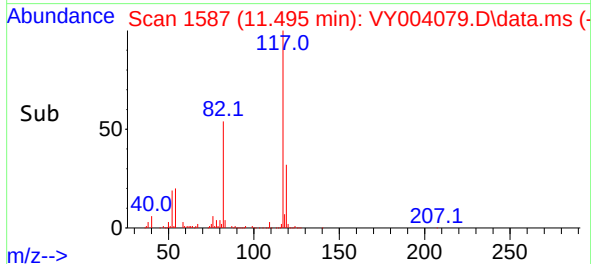
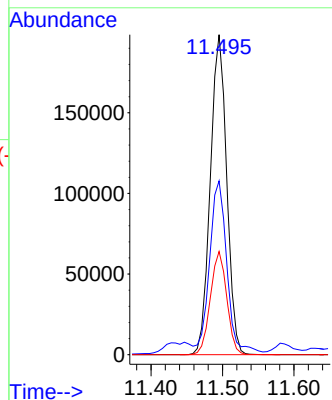
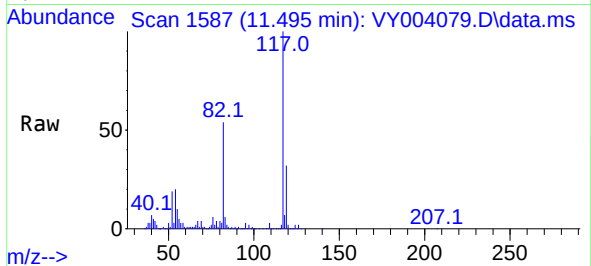


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.495 min Scan# 1587  
Delta R.T. -0.001 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-19-A

Tgt Ion:117 Resp: 315446

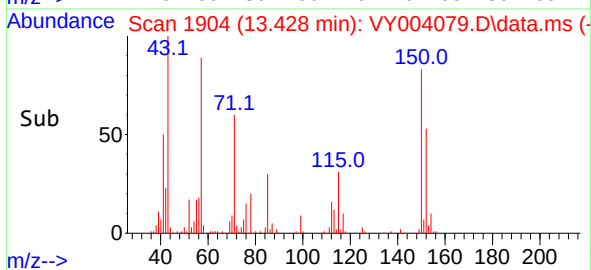
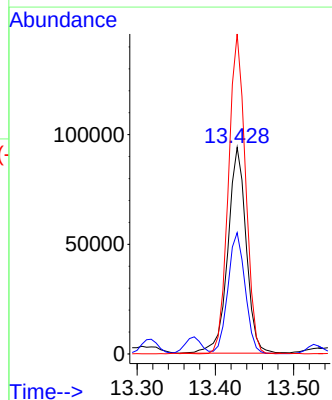
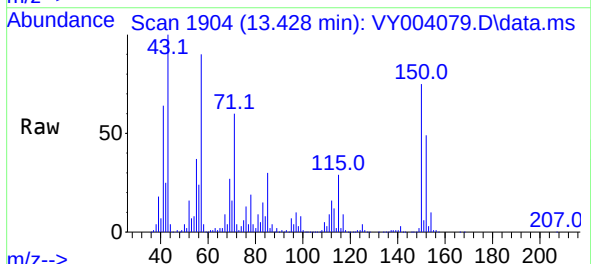
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 51.0  | 43.8  | 65.6  |
| 119 | 32.2  | 26.2  | 39.2  |

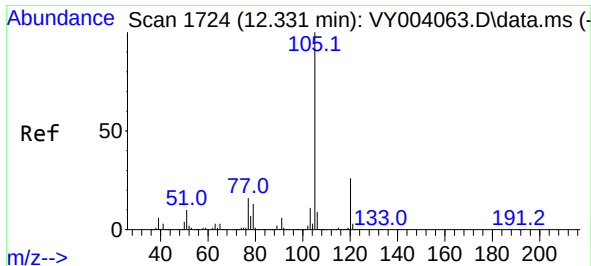


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion:152 Resp: 152617

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 55.2  | 28.2  | 84.6  |
| 150 | 144.5 | 0.0   | 347.2 |

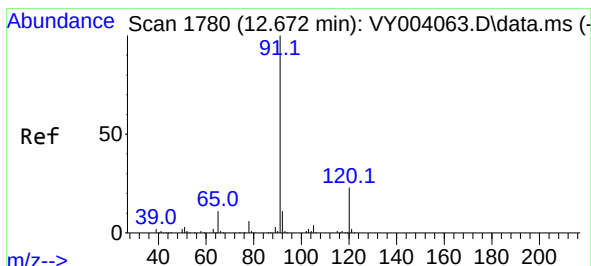
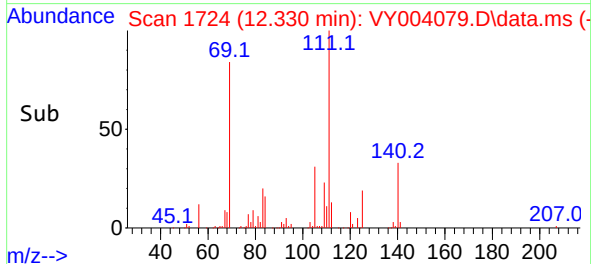
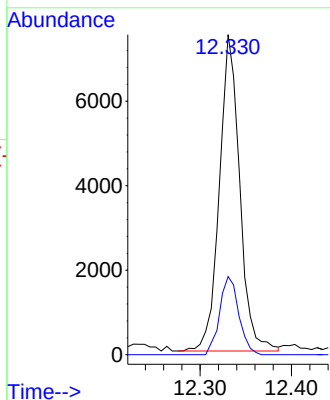
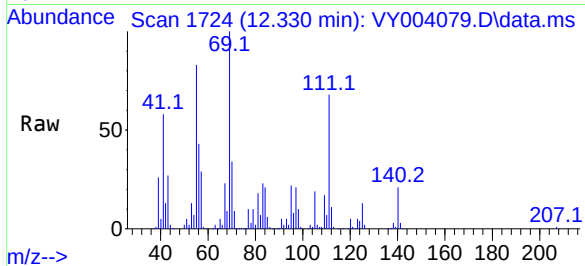




#73  
Isopropylbenzene  
Concen: 1.09 ug/l  
RT: 12.330 min Scan# 1724  
Delta R.T. -0.001 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

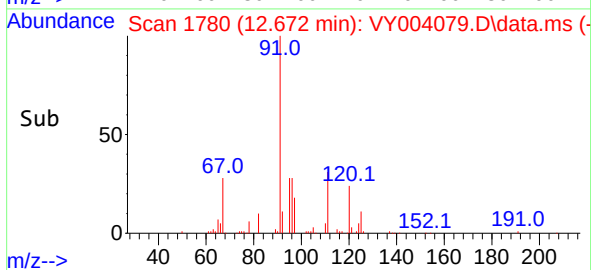
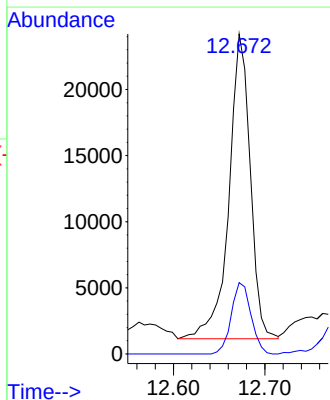
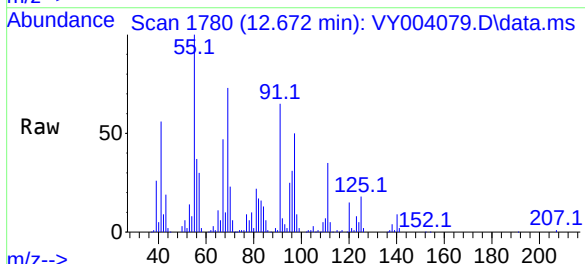
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-19-A

Tgt Ion:105 Resp: 11600  
Ion Ratio Lower Upper  
105 100  
120 23.2 13.3 39.9

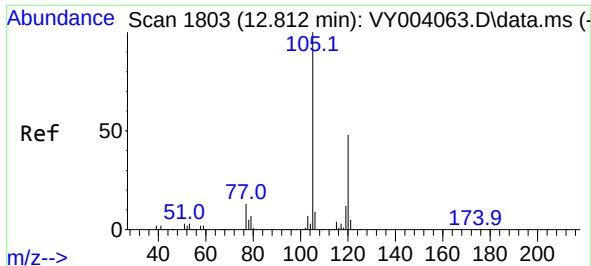


#78  
n-propylbenzene  
Concen: 2.99 ug/l  
RT: 12.672 min Scan# 1780  
Delta R.T. -0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion: 91 Resp: 37313  
Ion Ratio Lower Upper  
91 100  
120 21.6 11.3 33.9



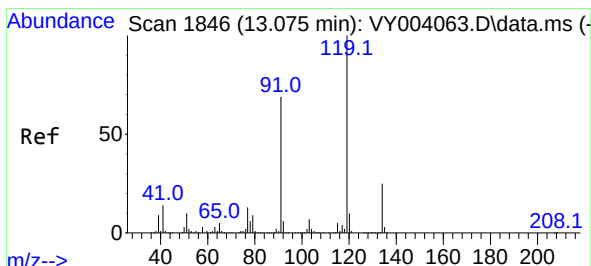
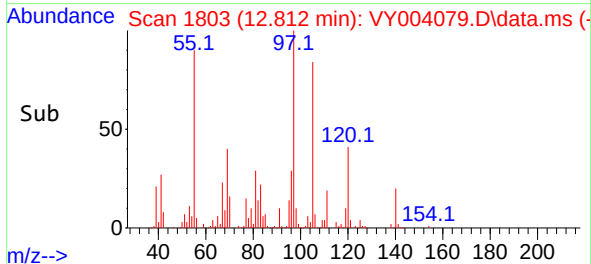
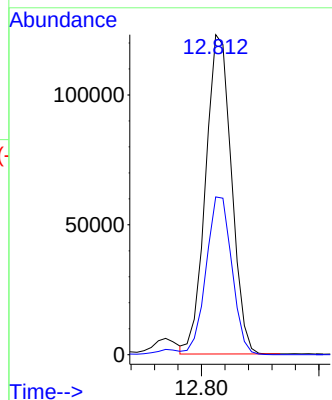
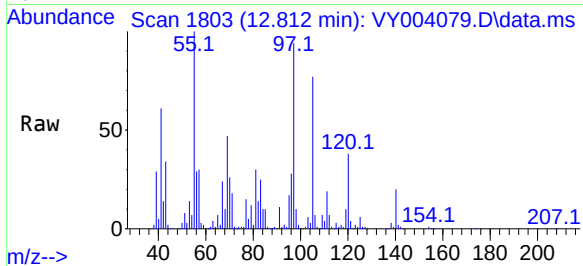




#80  
1,3,5-Trimethylbenzene  
Concen: 20.91 ug/l  
RT: 12.812 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

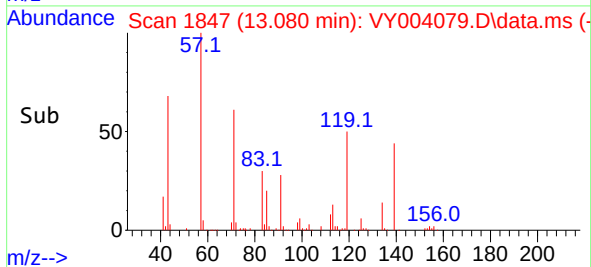
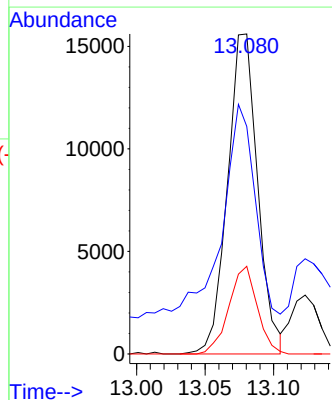
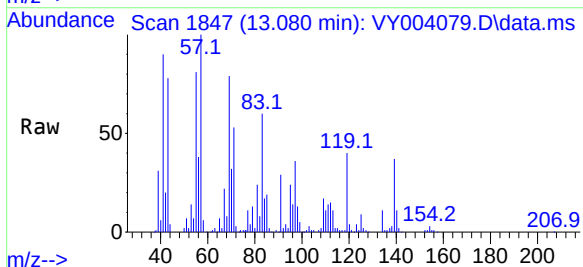
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-19-A

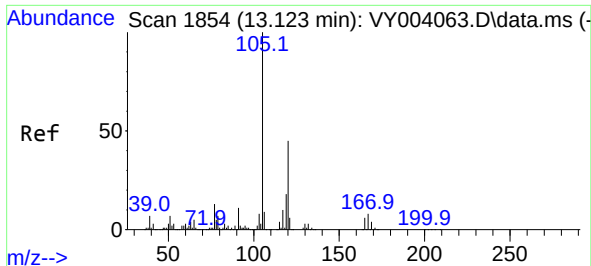
Tgt Ion:105 Resp: 188061  
Ion Ratio Lower Upper  
105 100  
120 49.3 24.1 72.2



#83  
tert-Butylbenzene  
Concen: 3.09 ug/l  
RT: 13.080 min Scan# 1847  
Delta R.T. 0.005 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion:119 Resp: 23883  
Ion Ratio Lower Upper  
119 100  
91 73.6 33.0 99.0  
134 25.8 12.9 38.7

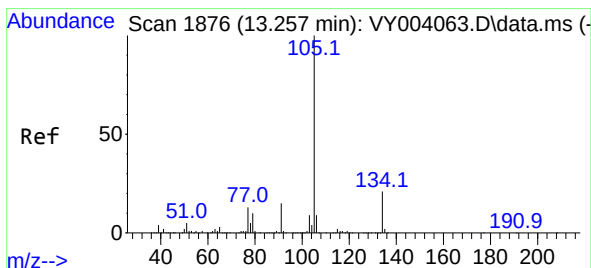
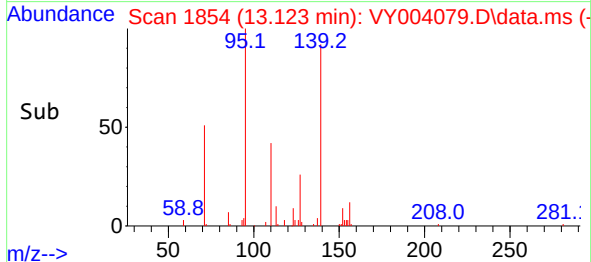
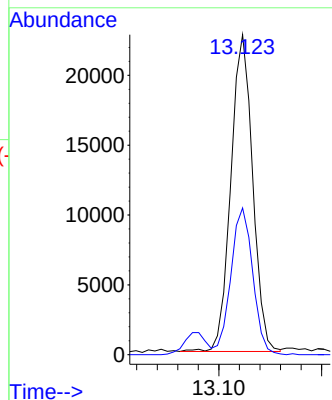
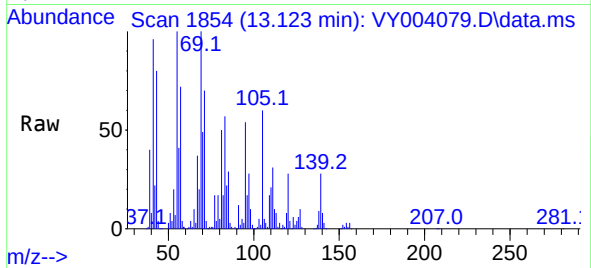




#84  
1,2,4-Trimethylbenzene  
Concen: 3.71 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. 0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

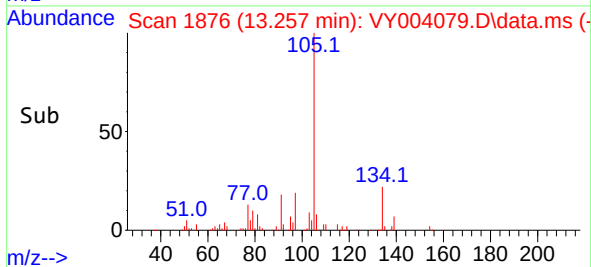
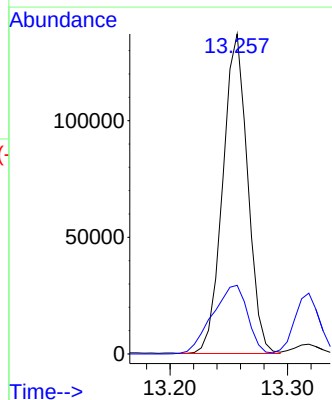
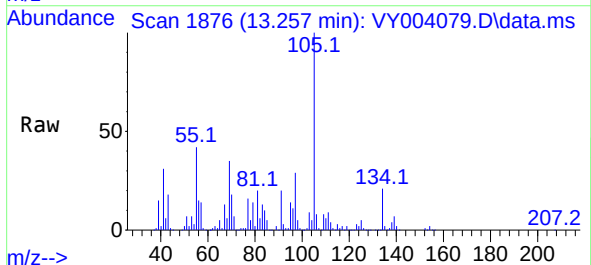
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-19-A

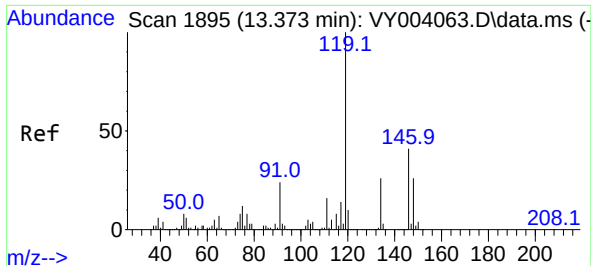
Tgt Ion:105 Resp: 33396  
Ion Ratio Lower Upper  
105 100  
120 46.6 22.1 66.3



#85  
sec-Butylbenzene  
Concen: 18.81 ug/l  
RT: 13.257 min Scan# 1876  
Delta R.T. 0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion:105 Resp: 200796  
Ion Ratio Lower Upper  
105 100  
134 30.7 10.2 30.4#



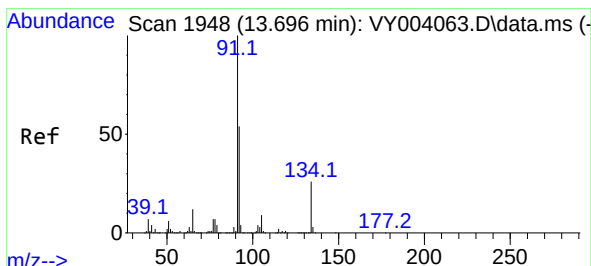
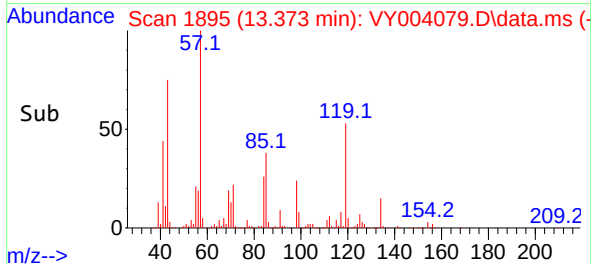
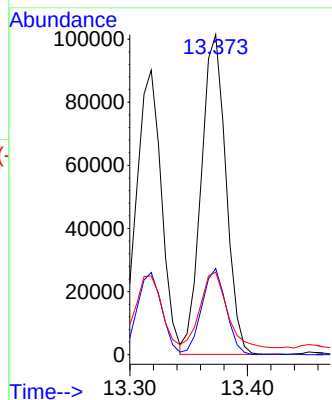
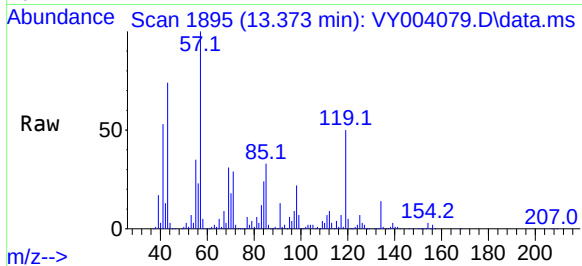


#86  
p-Isopropyltoluene  
Concen: 14.93 ug/l  
RT: 13.373 min Scan# 1895  
Delta R.T. -0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-19-A

Tgt Ion:119 Resp: 147784

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 26.3  | 13.2  | 39.5  |
| 91  | 25.3  | 12.1  | 36.3  |



#89  
n-Butylbenzene  
Concen: 20.89 ug/l  
RT: 13.696 min Scan# 1948  
Delta R.T. 0.000 min  
Lab File: VY004079.D  
Acq: 11 Mar 2021 16:04

Tgt Ion: 91 Resp: 196720

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 74.8  | 26.5  | 79.4  |
| 134 | 0.0   | 13.2  | 39.5# |

