

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092821\  
 Data File : VY006195.D  
 Acq On : 28 Sep 2021 17:55  
 Operator : SY/MD  
 Sample : M3933-04  
 Misc : 1.25G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 191-0923-XYL-4

Quant Time: Sep 29 03:21:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y092821S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 2021  
 Response via : Initial Calibration

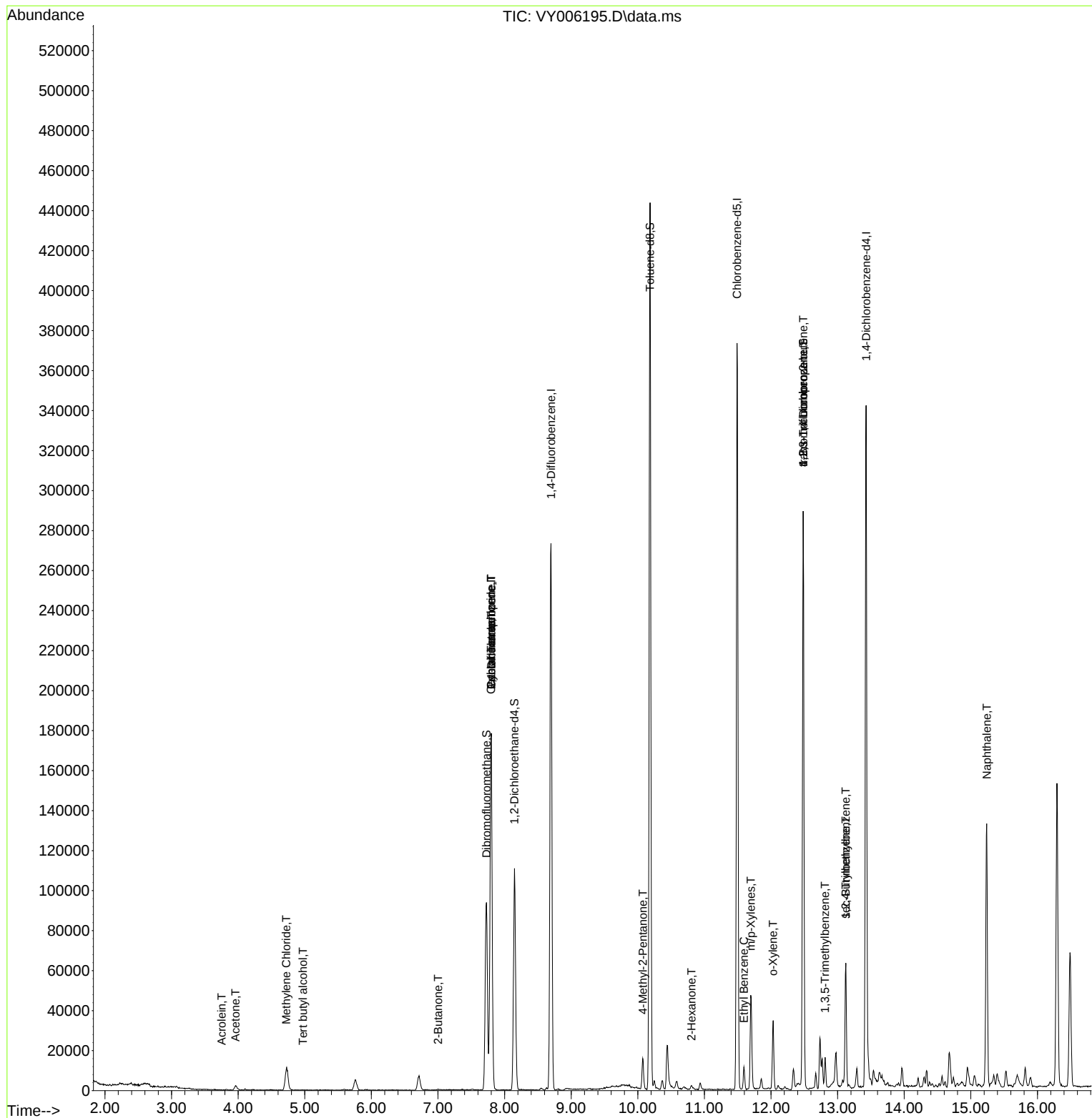
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.801     | 168   | 139183   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697     | 114   | 224346   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489    | 117   | 193085   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 84509    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.148     | 65    | 86729    | 58.220   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | = 116.440% |          |
| 35) Dibromofluoromethane      | 7.728     | 113   | 64616    | 53.910   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | = 107.820% |          |
| 50) Toluene-d8                | 10.185    | 98    | 284511   | 56.717   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery | = 113.440% |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 80755    | 47.388   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery | = 94.780%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.972     | 59    | 235      | 1.803    | ug/l       | # 77     |
| 13) Acrolein                  | 3.753     | 56    | 53       | 19.012   | ug/l       | # 14     |
| 16) Acetone                   | 3.960     | 43    | 3935     | 9.458    | ug/l       | 93       |
| 20) Methylene Chloride        | 4.722     | 84    | 8028     | 2.003    | ug/l       | 87       |
| 25) 2-Butanone                | 7.002     | 43    | 873      | 1.506    | ug/l       | 94       |
| 31) Cyclohexane               | 7.801     | 56    | 3139     | 1.112    | ug/l       | # 1      |
| 36) 1,1-Dichloropropene       | 7.801     | 75    | 11135    | 4.989    | ug/l       | # 51     |
| 38) Carbon Tetrachloride      | 7.795     | 117   | 12989    | 5.511    | ug/l       | # 15     |
| 51) 4-Methyl-2-Pentanone      | 10.075    | 43    | 10665    | 8.236    | ug/l       | 100      |
| 59) 2-Hexanone                | 10.807    | 43    | 2453     | 2.660    | ug/l       | # 28     |
| 67) Ethyl Benzene             | 11.593    | 91    | 7293     | 1.011    | ug/l       | 99       |
| 68) m/p-Xylenes               | 11.697    | 106   | 13454    | 4.916    | ug/l       | 95       |
| 69) o-Xylene                  | 12.032    | 106   | 8123     | 3.143    | ug/l       | 96       |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75    | 45466    | 55.353   | ug/l       | # 100    |
| 80) 1,3,5-Trimethylbenzene    | 12.812    | 105   | 6537     | 1.291    | ug/l       | 94       |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75    | 45466    | 108.776  | ug/l       | # 7      |
| 84) 1,2,4-Trimethylbenzene    | 13.123    | 105   | 31531    | 6.309    | ug/l       | 99       |
| 85) sec-Butylbenzene          | 13.123    | 105   | 31531    | 4.821    | ug/l       | # 56     |
| 95) Naphthalene               | 15.239    | 128   | 105247   | 32.602   | ug/l       | 99       |
| -----                         |           |       |          |          |            |          |

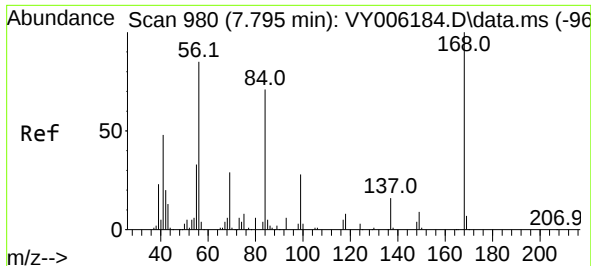
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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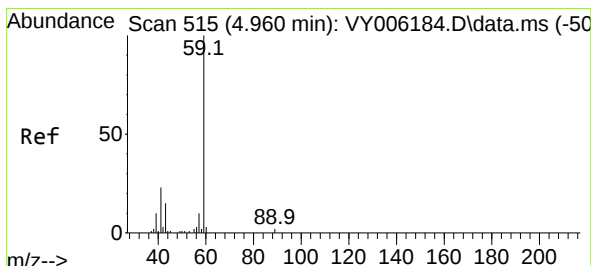
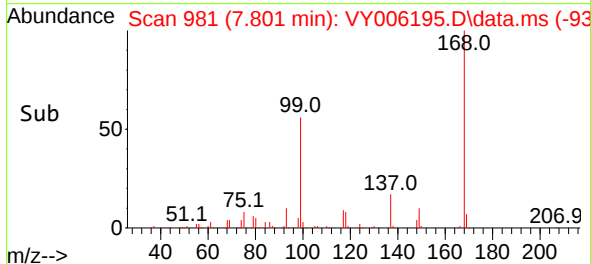
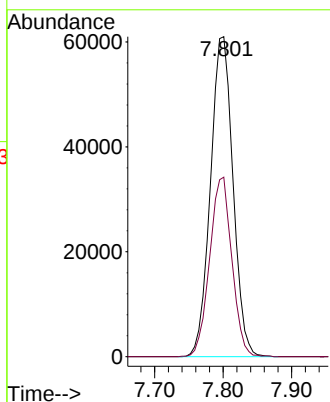
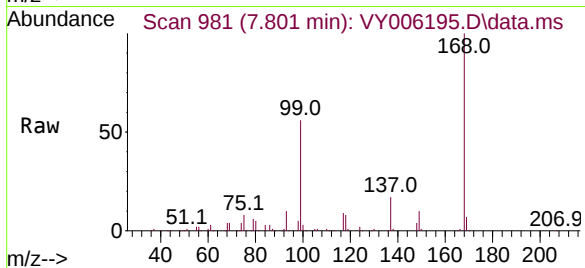




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. 0.006 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

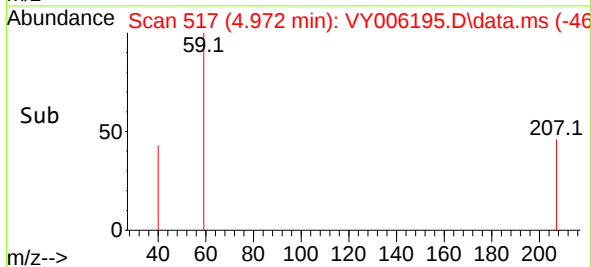
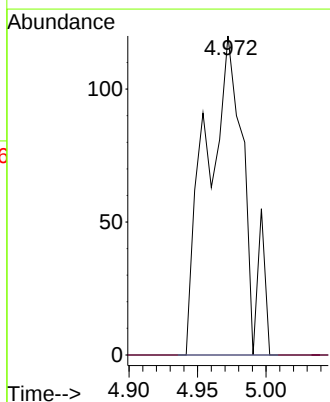
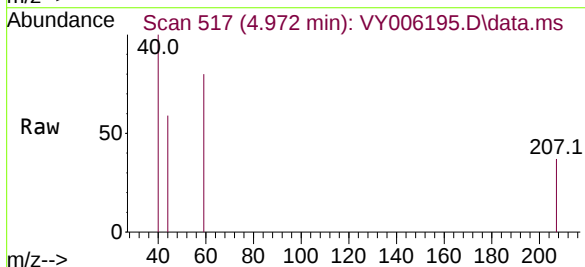
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

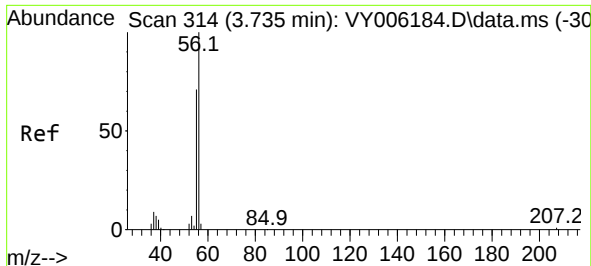
Tgt Ion:168 Resp: 139183  
Ion Ratio Lower Upper  
168 100  
99 56.1 46.9 70.3



#11  
Tert butyl alcohol  
Concen: 1.803 ug/l  
RT: 4.972 min Scan# 517  
Delta R.T. 0.012 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 59 Resp: 235  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#

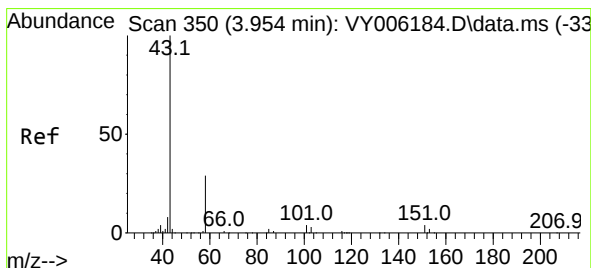
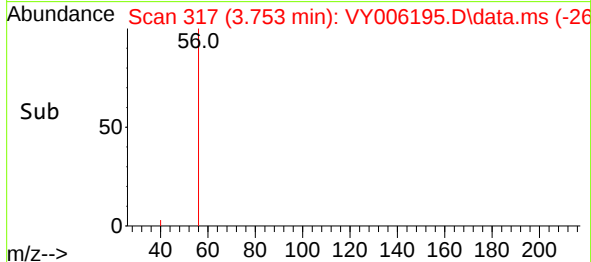
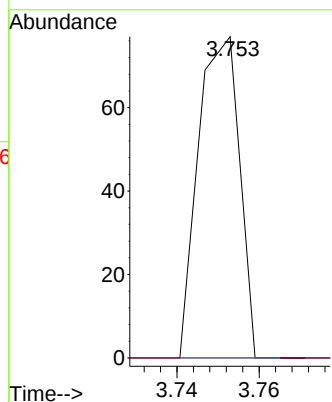
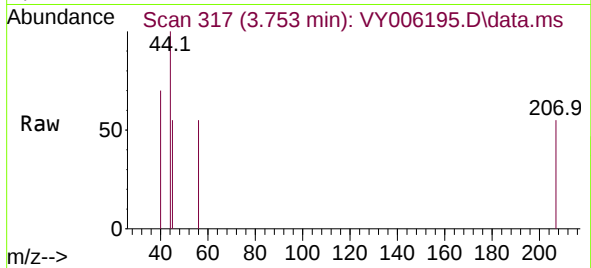




#13  
Acrolein  
Concen: 19.012 ug/l  
RT: 3.753 min Scan# 317  
Delta R.T. 0.018 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

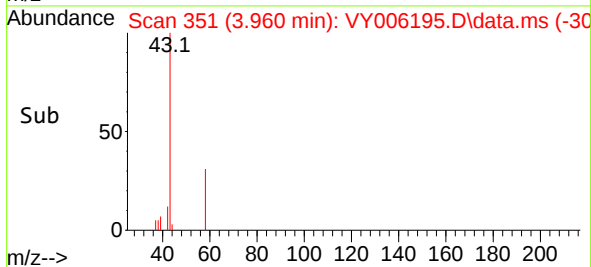
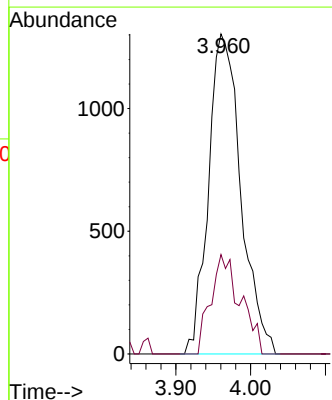
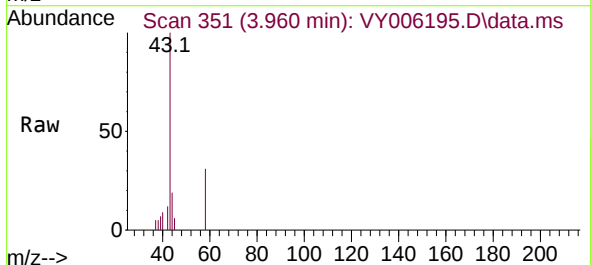
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

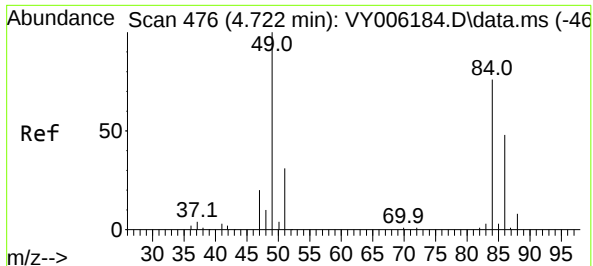
Tgt Ion: 56 Resp: 53  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.6 86.4#



#16  
Acetone  
Concen: 9.458 ug/l  
RT: 3.960 min Scan# 351  
Delta R.T. 0.006 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 43 Resp: 3935  
Ion Ratio Lower Upper  
43 100  
58 31.1 22.0 33.0



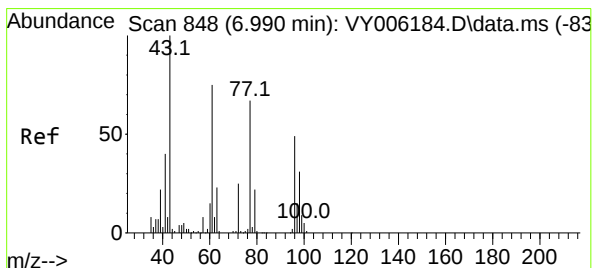
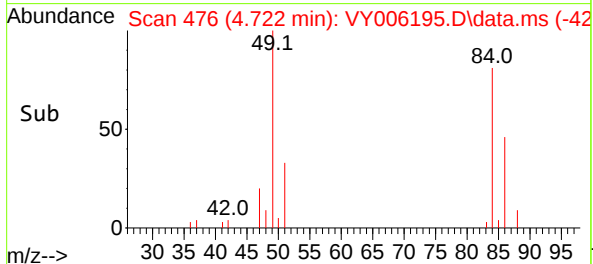
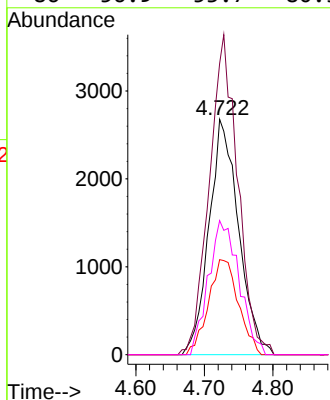
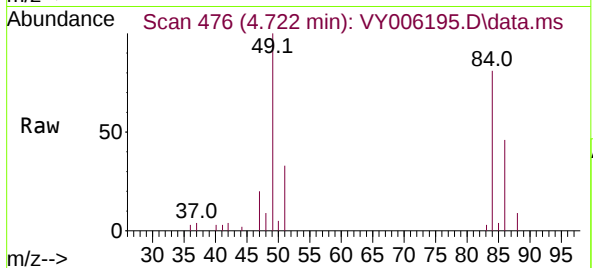


#20  
Methylene Chloride  
Concen: 2.003 ug/l  
RT: 4.722 min Scan# 476  
Delta R.T. 0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

Tgt Ion: 84 Resp: 8028

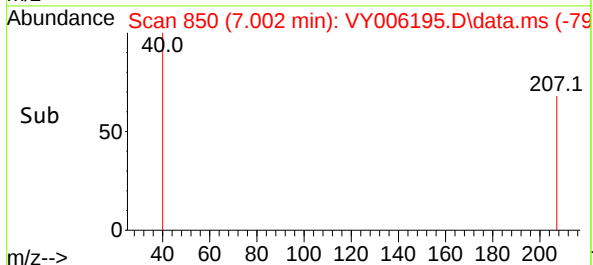
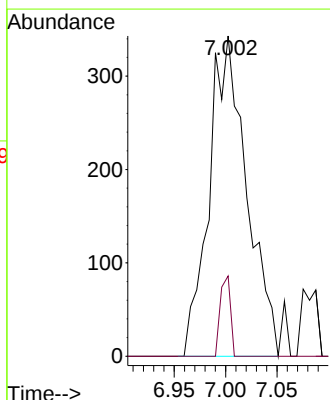
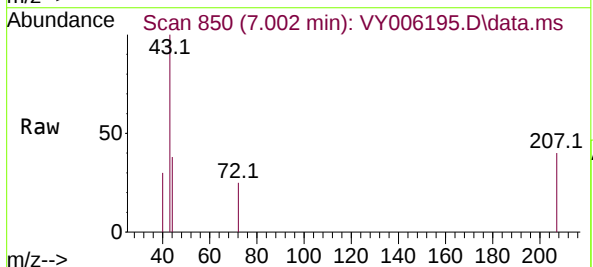
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 123.7 | 114.4 | 171.6 |
| 51  | 40.4  | 35.3  | 52.9  |
| 86  | 56.9  | 53.7  | 80.5  |

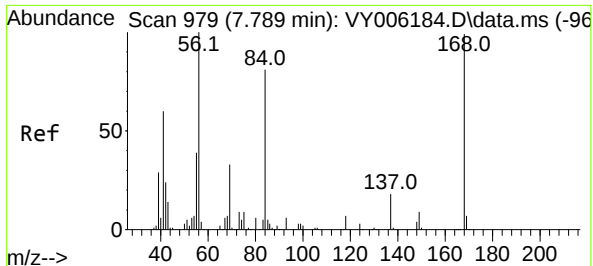


#25  
2-Butanone  
Concen: 1.506 ug/l  
RT: 7.002 min Scan# 850  
Delta R.T. 0.012 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 43 Resp: 873

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 25.1  | 17.7  | 26.5  |

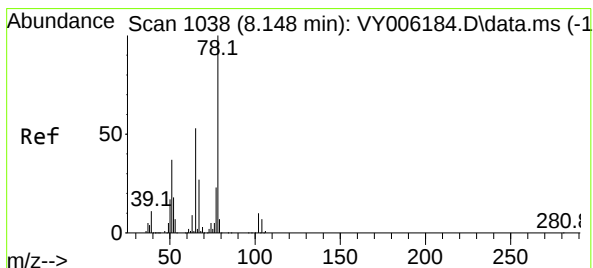
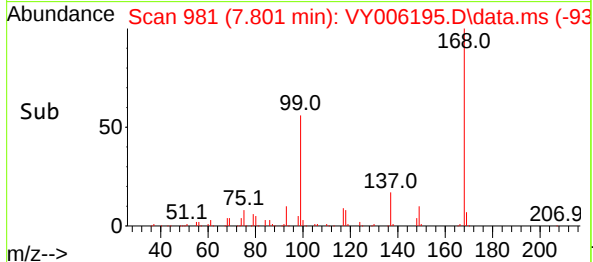
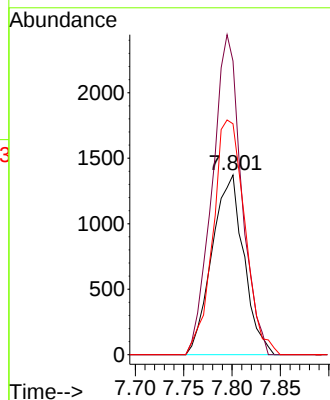
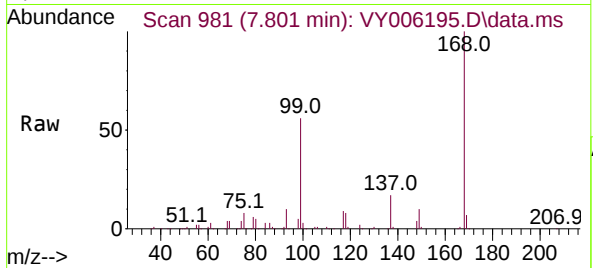




#31  
Cyclohexane  
Concen: 1.112 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. 0.012 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

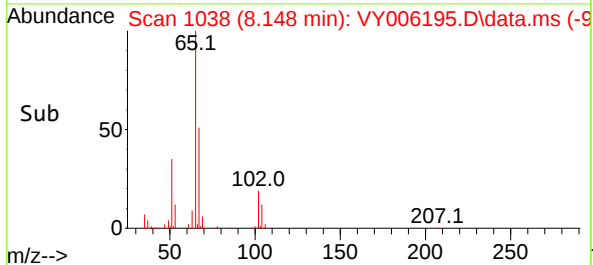
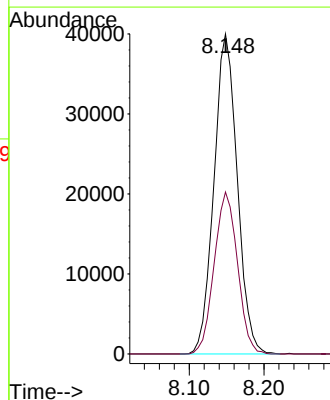
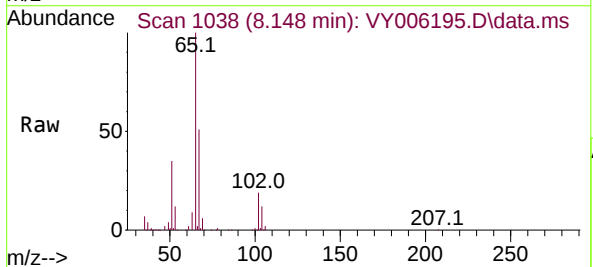
Instrument :  
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ClientSampleId :  
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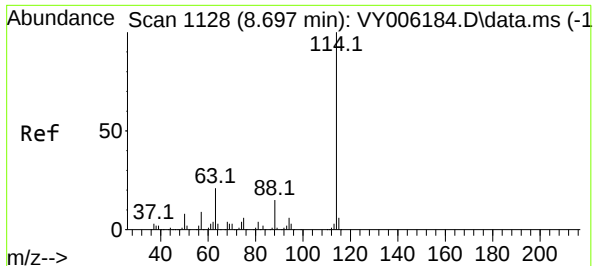
Tgt Ion: 56 Resp: 3139  
Ion Ratio Lower Upper  
56 100  
69 163.3 26.7 40.1#  
84 128.5 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 58.220 ug/l  
RT: 8.148 min Scan# 1038  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 65 Resp: 86729  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 99.4

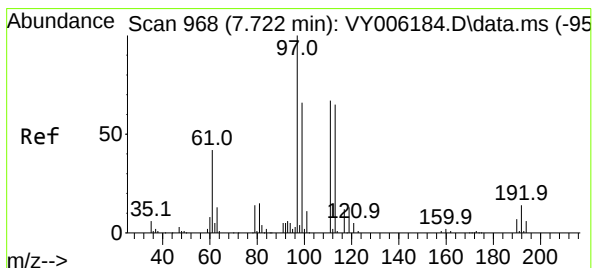
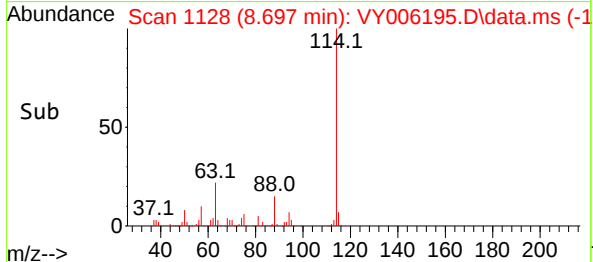
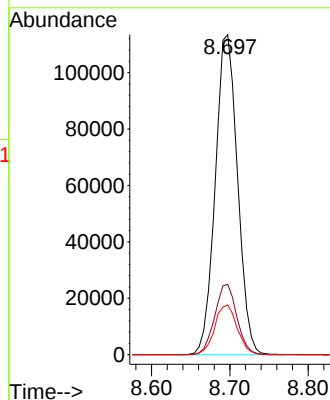
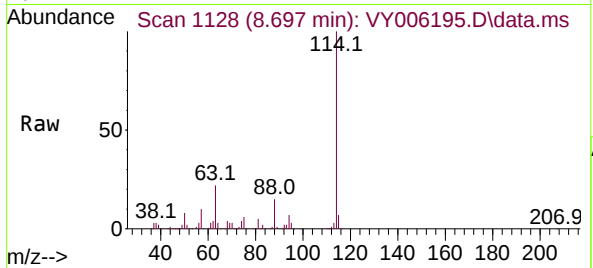




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.697 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

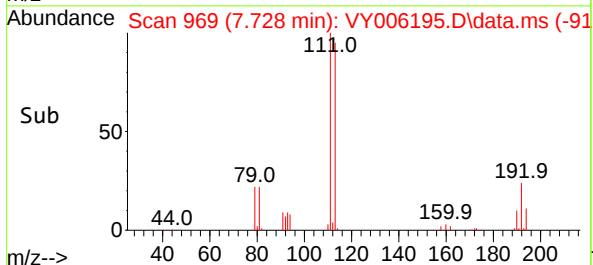
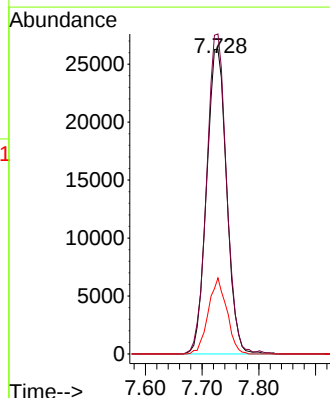
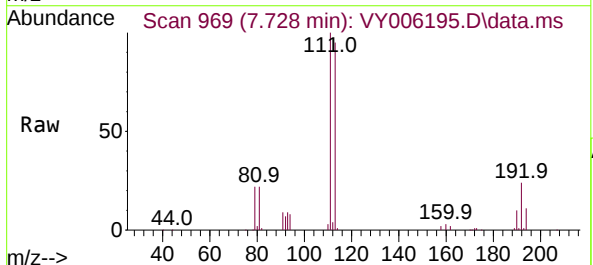
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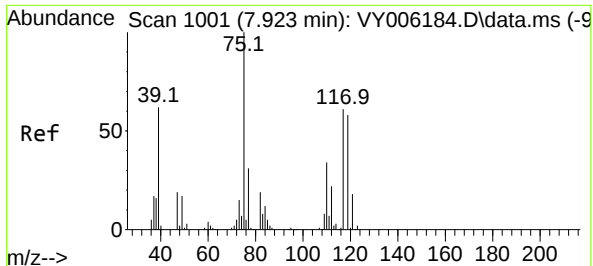
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|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 224346 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 22.0  | 0.0   | 43.2   |
| 88        | 15.5  | 0.0   | 31.8   |



#35  
Dibromofluoromethane  
Concen: 53.910 ug/l  
RT: 7.728 min Scan# 969  
Delta R.T. 0.006 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 64616 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 103.7 | 82.6  | 124.0 |
| 192       | 23.0  | 17.6  | 26.4  |

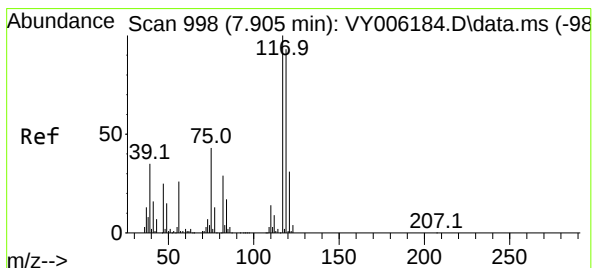
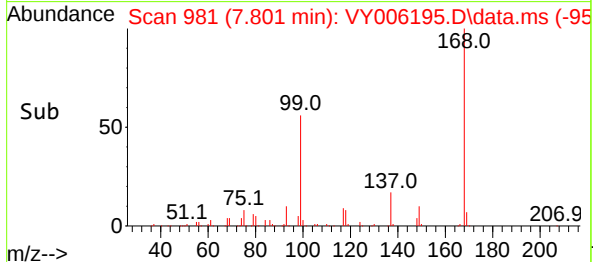
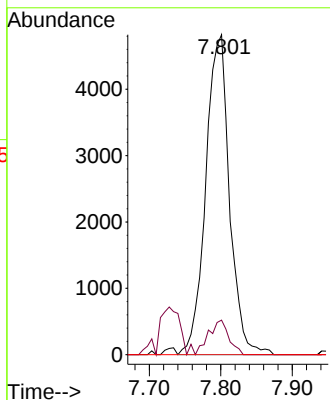
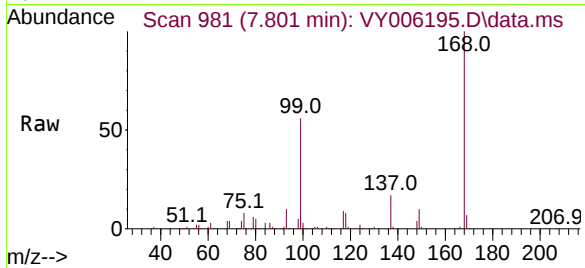




#36  
1,1-Dichloropropene  
Concen: 4.989 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. -0.122 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

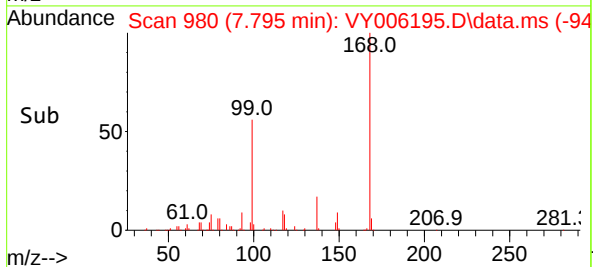
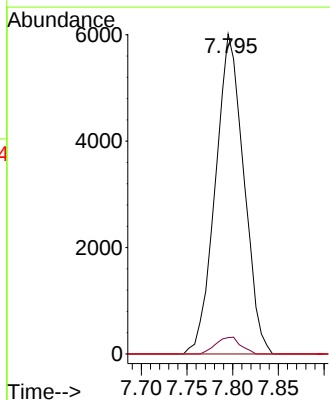
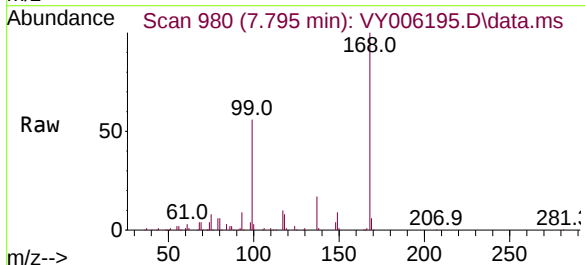
Instrument :  
MSVOA\_Y  
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191-0923-XYL-4

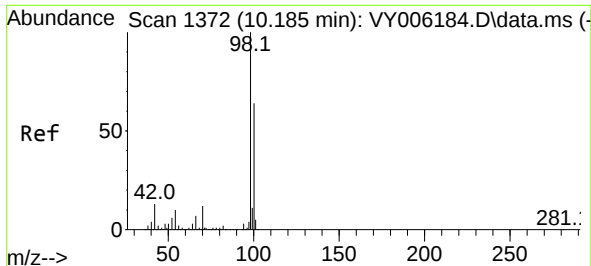
Tgt Ion: 75 Resp: 11135  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.1 51.2#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 5.511 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.110 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 117 Resp: 12989  
Ion Ratio Lower Upper  
117 100  
119 5.1 77.9 116.9#  
121 0.0 24.8 37.2#

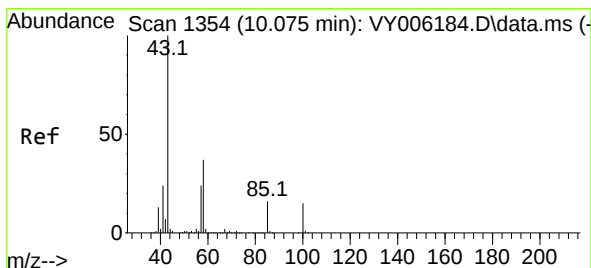
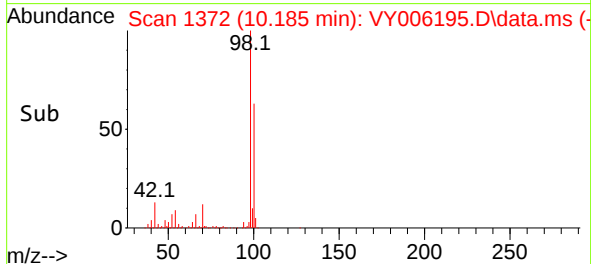
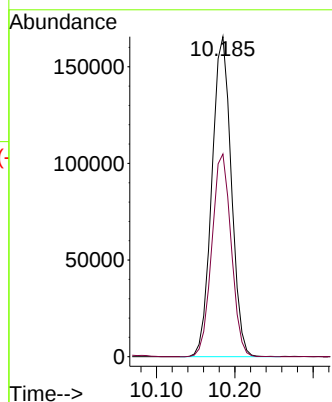
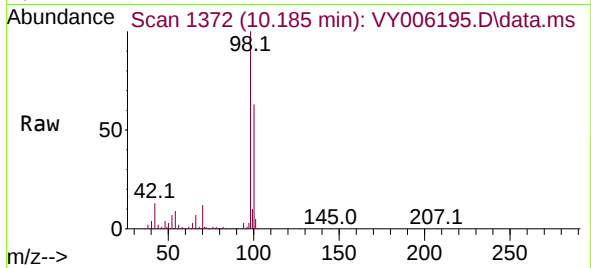




#50  
Toluene-d8  
Concen: 56.717 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

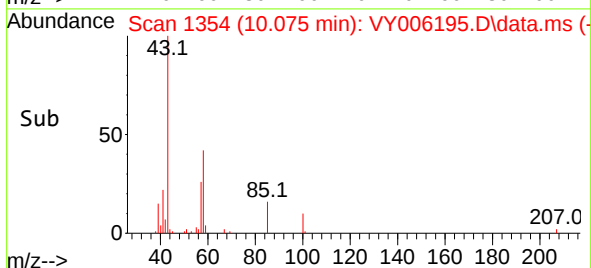
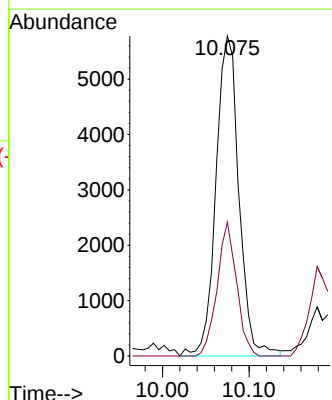
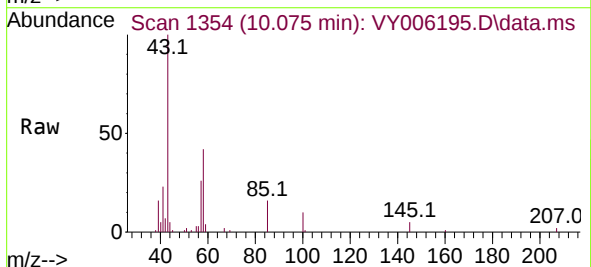
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

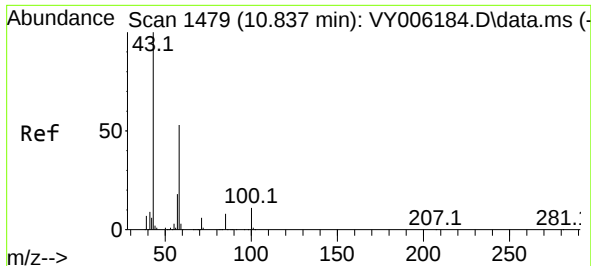
Tgt Ion: 98 Resp: 284511  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 8.236 ug/l  
RT: 10.075 min Scan# 1354  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 43 Resp: 10665  
Ion Ratio Lower Upper  
43 100  
58 35.4 28.1 42.1

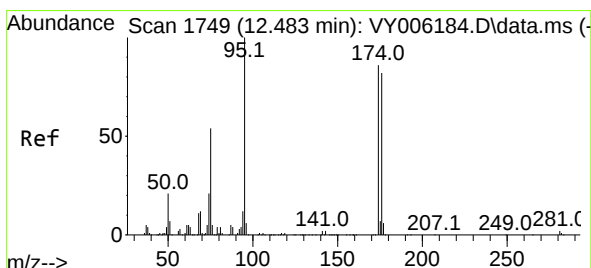
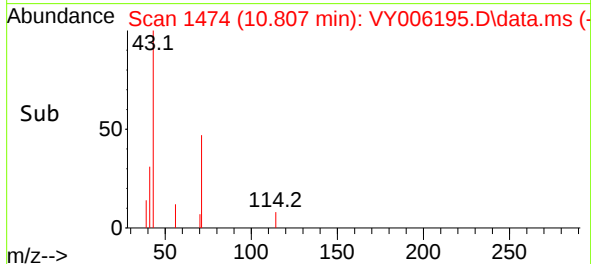
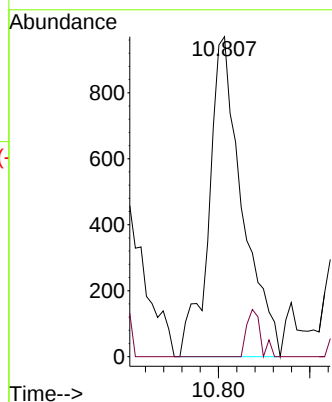
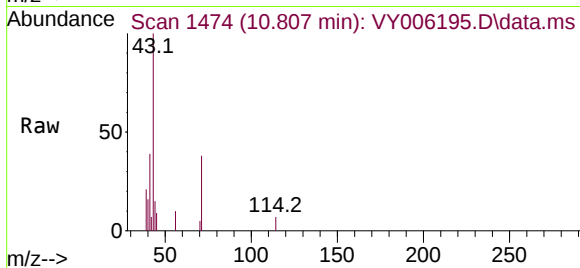




#59  
2-Hexanone  
Concen: 2.660 ug/l  
RT: 10.807 min Scan# 1474  
Delta R.T. -0.030 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

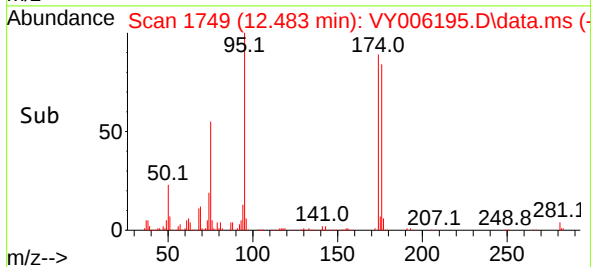
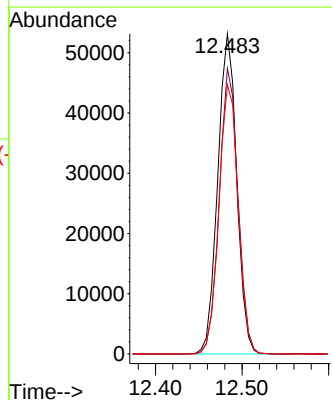
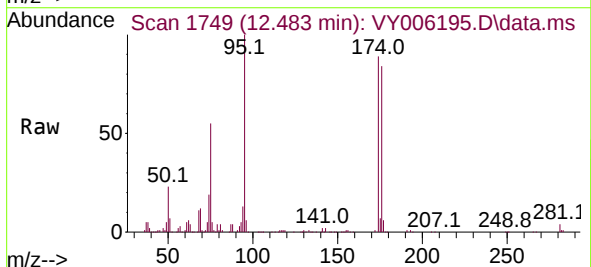
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

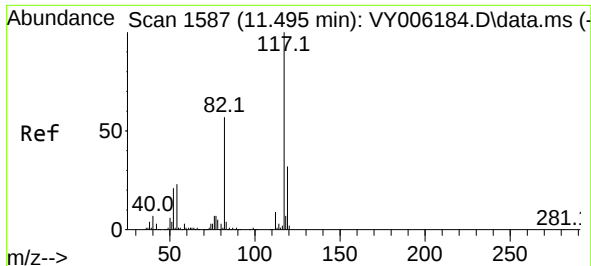
Tgt Ion: 43 Resp: 2453  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.4 73.4#



#62  
4-Bromofluorobenzene  
Concen: 47.388 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 95 Resp: 80755  
Ion Ratio Lower Upper  
95 100  
174 88.2 0.0 177.0  
176 85.3 0.0 175.8

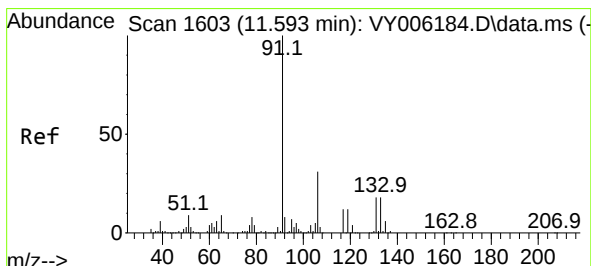
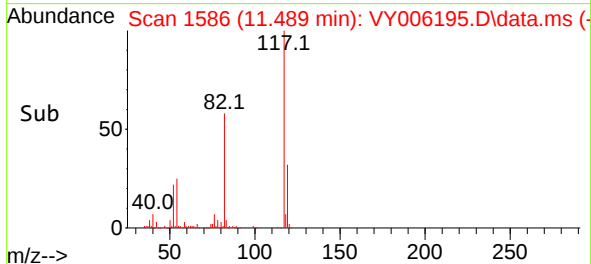
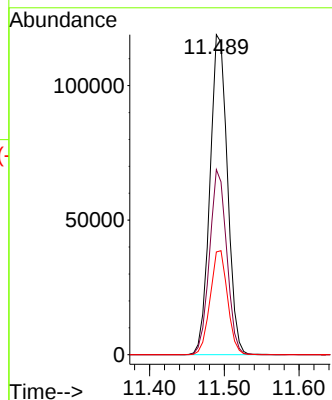
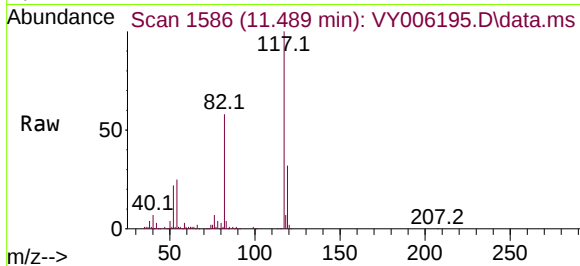




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

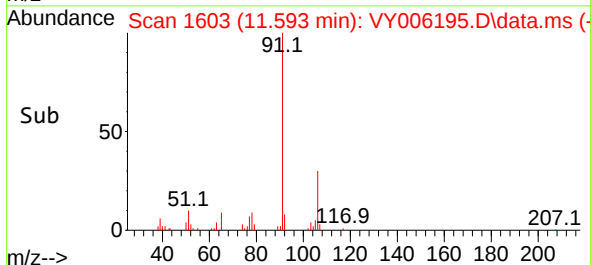
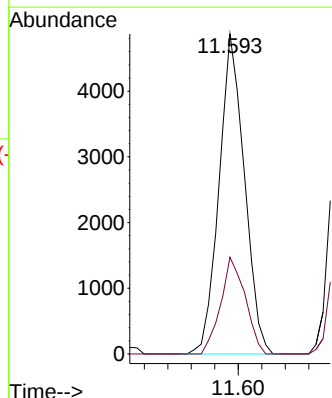
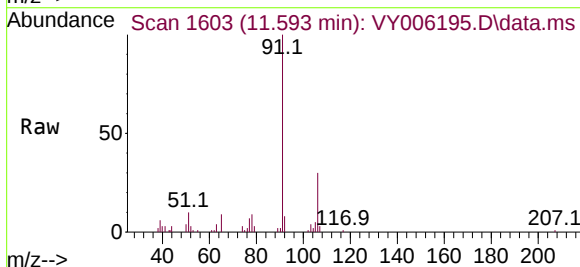
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

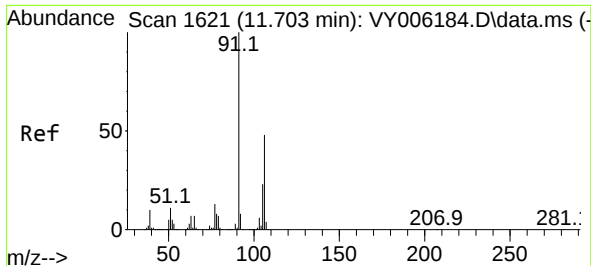
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.8  | 43.0  | 64.4  |
| 119     | 32.1  | 25.4  | 38.0  |



#67  
Ethyl Benzene  
Concen: 1.011 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.3  | 24.5  | 36.7  |

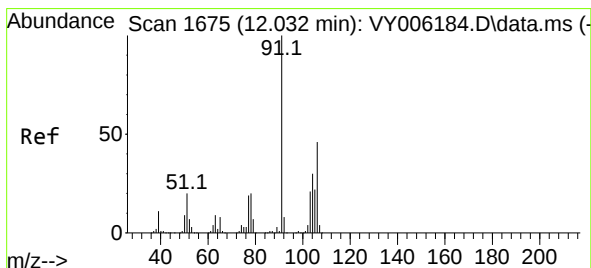
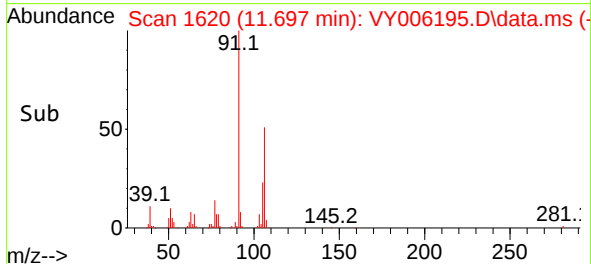
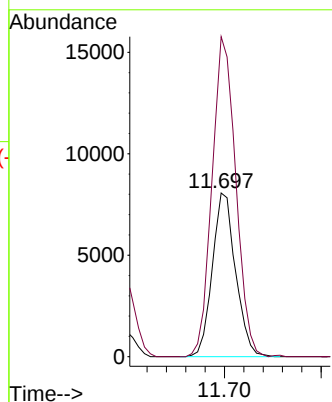
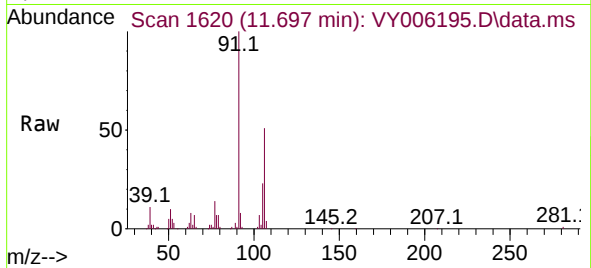




#68  
m/p-Xylenes  
Concen: 4.916 ug/l  
RT: 11.697 min Scan# 1620  
Delta R.T. -0.006 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

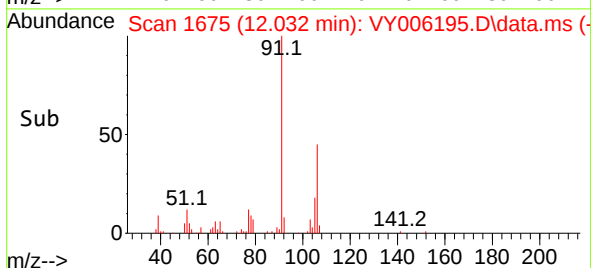
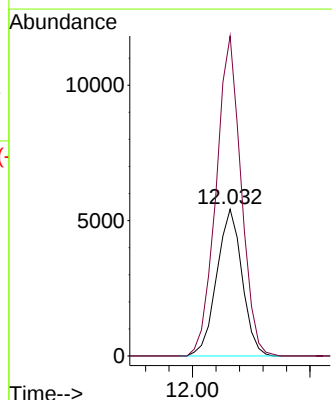
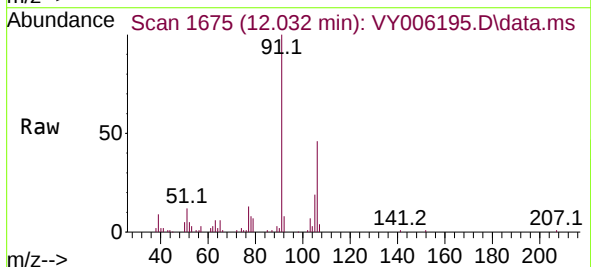
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

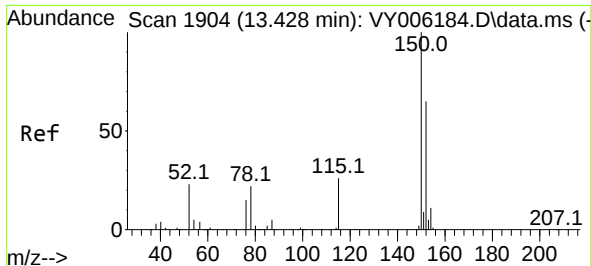
Tgt Ion:106 Resp: 13454  
Ion Ratio Lower Upper  
106 100  
91 199.7 166.6 249.8



#69  
o-Xylene  
Concen: 3.143 ug/l  
RT: 12.032 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion:106 Resp: 8123  
Ion Ratio Lower Upper  
106 100  
91 214.8 110.3 331.0

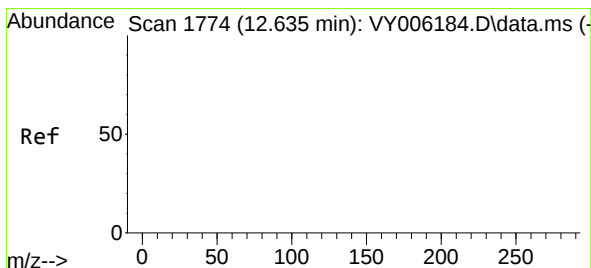
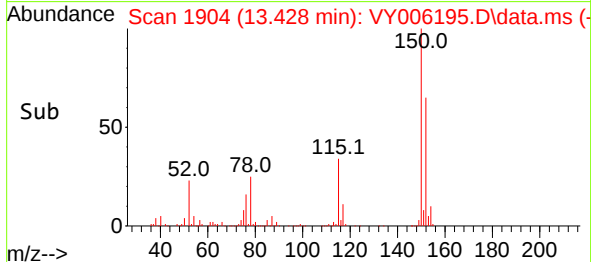
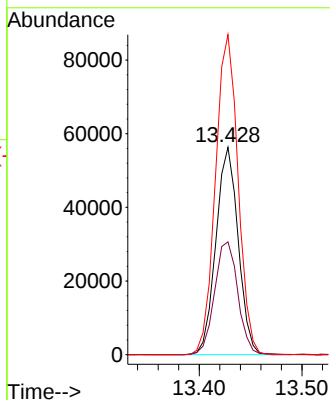
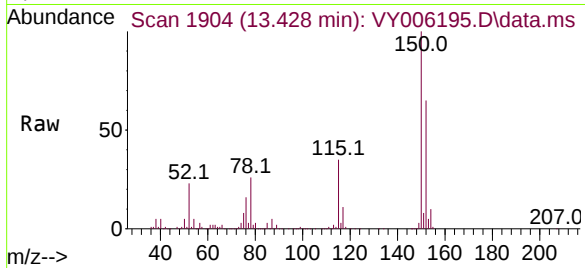




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.428 min Scan# 1904  
 Delta R.T. -0.000 min  
 Lab File: VY006195.D  
 Acq: 28 Sep 2021 17:55

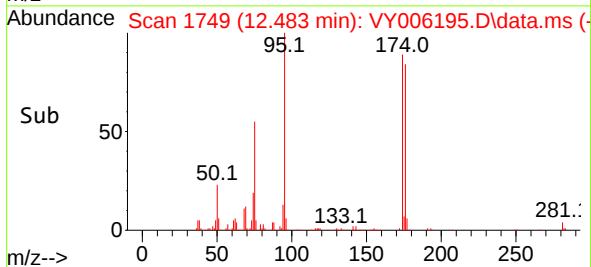
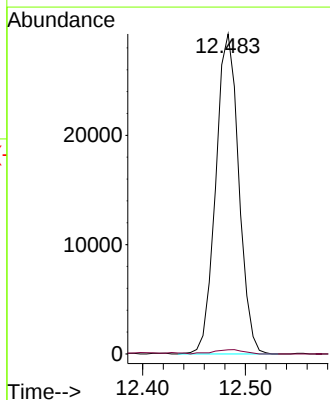
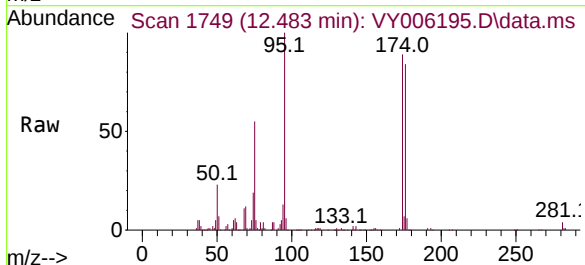
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 191-0923-XYL-4

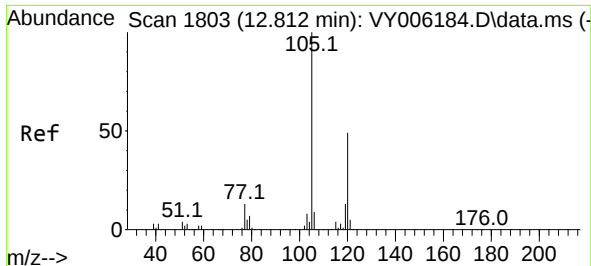
Tgt Ion:152 Resp: 84509  
 Ion Ratio Lower Upper  
 152 100  
 115 57.2 28.2 84.7  
 150 156.6 0.0 347.6



#76  
 1,2,3-Trichloropropane  
 Concen: 55.353 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. -0.152 min  
 Lab File: VY006195.D  
 Acq: 28 Sep 2021 17:55

Tgt Ion: 75 Resp: 45466  
 Ion Ratio Lower Upper  
 75 100  
 77 1.8 0.0 0.0#

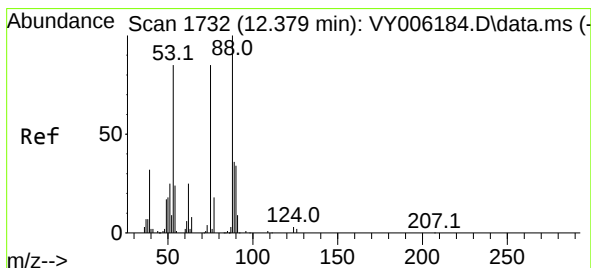
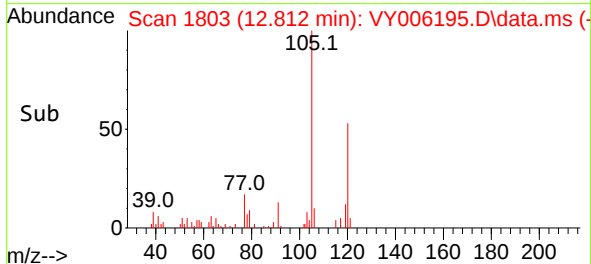
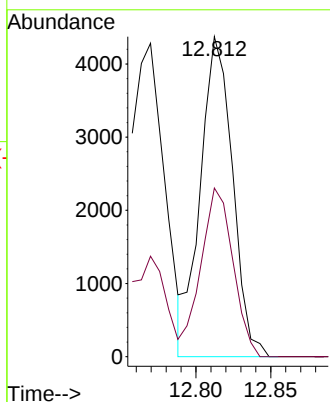
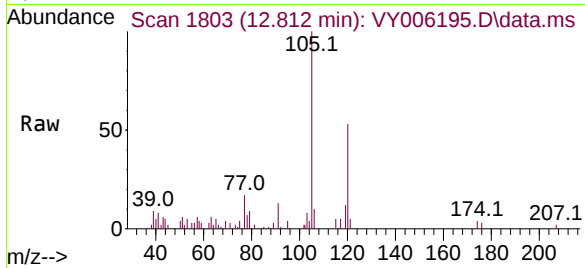




#80  
1,3,5-Trimethylbenzene  
Concen: 1.291 ug/l  
RT: 12.812 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

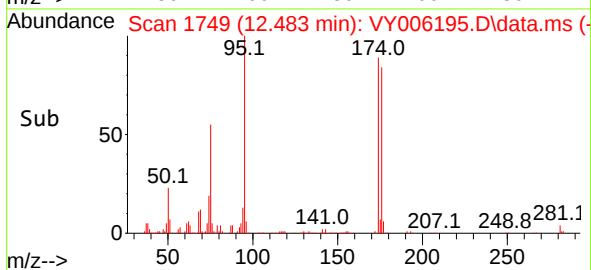
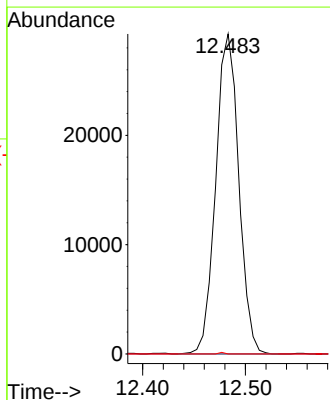
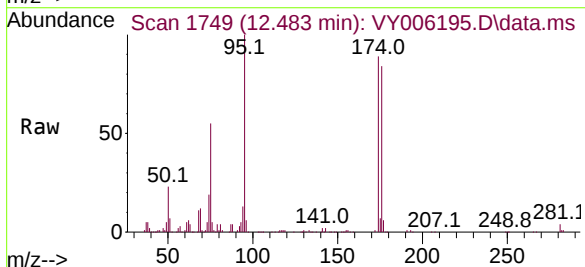
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

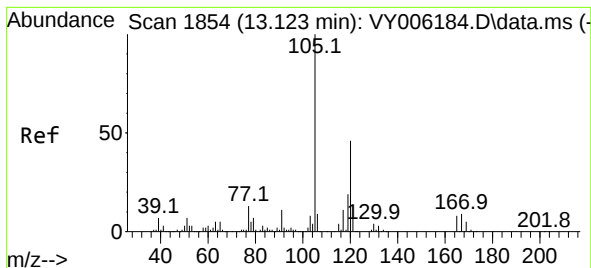
Tgt Ion:105 Resp: 6537  
Ion Ratio Lower Upper  
105 100  
120 52.7 24.4 73.4



#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.776 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion: 75 Resp: 45466  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.1 37.0 55.4#

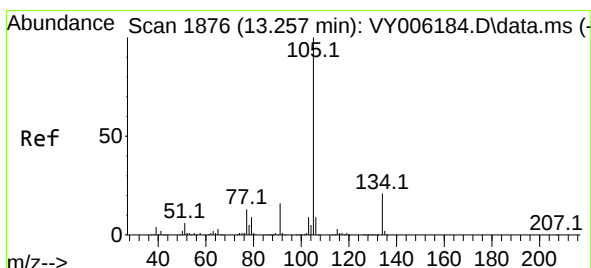
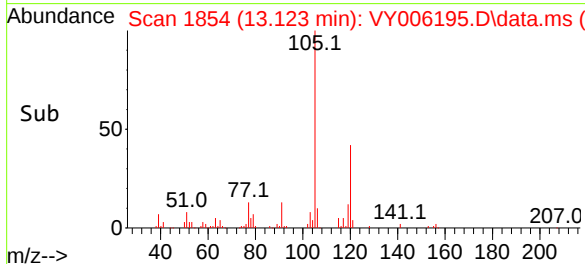
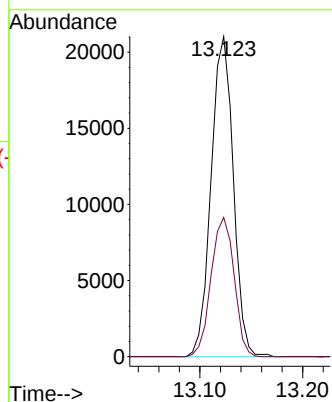
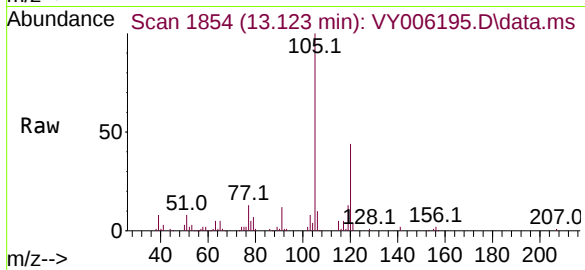




#84  
1,2,4-Trimethylbenzene  
Concen: 6.309 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

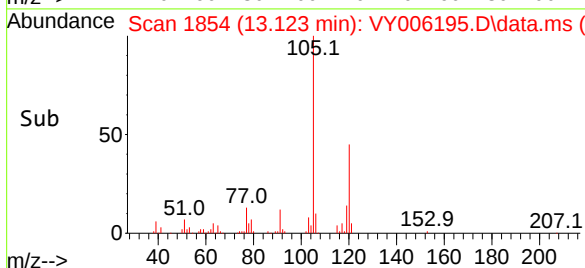
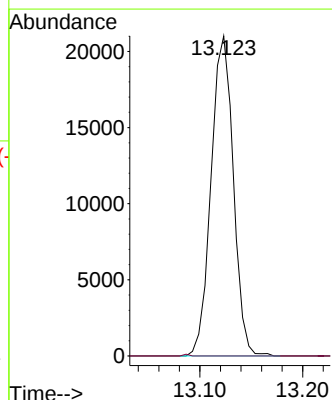
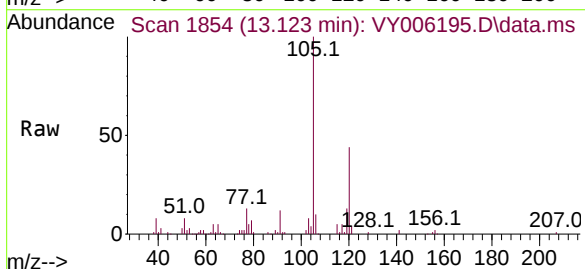
Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

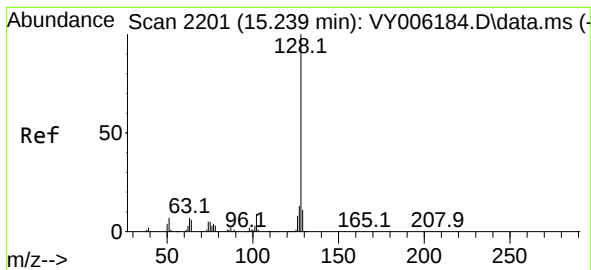
Tgt Ion:105 Resp: 31531  
Ion Ratio Lower Upper  
105 100  
120 45.1 22.3 66.9



#85  
sec-Butylbenzene  
Concen: 4.821 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. -0.134 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Tgt Ion:105 Resp: 31531  
Ion Ratio Lower Upper  
105 100  
134 0.0 10.2 30.4#





#95  
Naphthalene  
Concen: 32.602 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.000 min  
Lab File: VY006195.D  
Acq: 28 Sep 2021 17:55

Instrument :  
MSVOA\_Y  
ClientSampleId :  
191-0923-XYL-4

Tgt Ion:128 Resp: 105247  
Ion Ratio Lower Upper  
128 100  
127 13.4 11.0 16.4  
129 11.1 8.4 12.6

