

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091422\  
 Data File : VY010493.D  
 Acq On : 14 Sep 2022 18:44  
 Operator : KP/MD  
 Sample : N4588-01  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 AUD-1647

Quant Time: Sep 15 01:11:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 09 17:08:30 2022  
 Response via : Initial Calibration

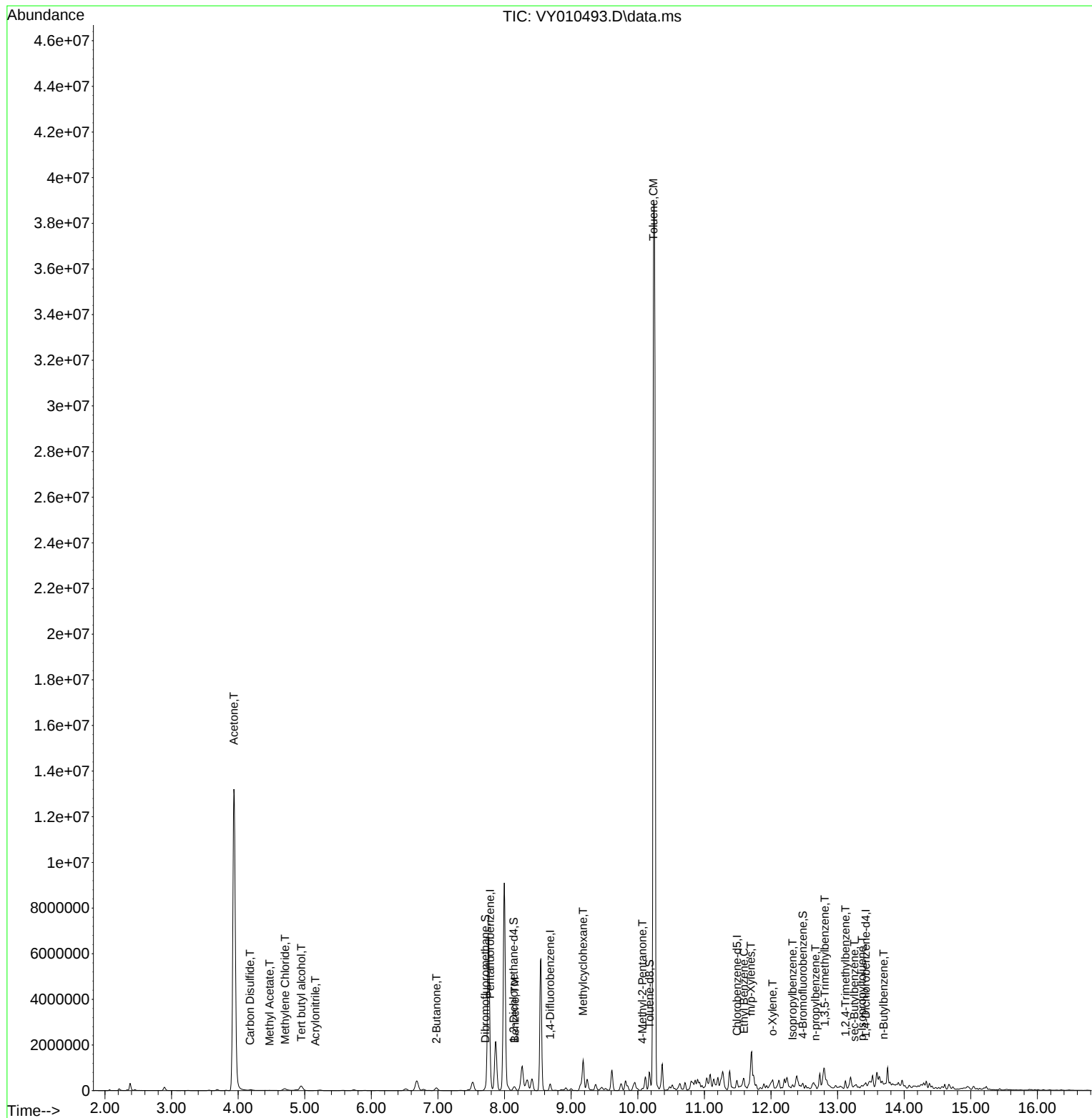
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 154902   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 244666   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 176766   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 37311    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65    | 76388    | 48.963    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 97.920%  |
| 35) Dibromofluoromethane      | 7.710  | 113   | 73207    | 42.130    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 84.260%  |
| 50) Toluene-d8                | 10.179 | 98    | 293653   | 52.144    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 104.280% |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 59966    | 23.616    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 47.240%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.948  | 59    | 382516   | 2648.744  | ug/l # | 93       |
| 15) Acrylonitrile             | 5.162  | 53    | 5234     | 12.275    | ug/l   | 96       |
| 16) Acetone                   | 3.936  | 43    | 21261054 | 59383.218 | ug/l # | 70       |
| 17) Carbon Disulfide          | 4.180  | 76    | 30078    | 7.446     | ug/l   | 100      |
| 18) Methyl Acetate            | 4.473  | 43    | 14684    | 13.331    | ug/l # | 85       |
| 20) Methylene Chloride        | 4.704  | 84    | 33818    | 14.649    | ug/l   | 88       |
| 25) 2-Butanone                | 6.978  | 43    | 128836   | 226.429   | ug/l # | 88       |
| 39) Methylcyclohexane         | 9.179  | 83    | 441777   | 148.941   | ug/l   | 94       |
| 40) Benzene                   | 8.155  | 78    | 115224   | 16.826    | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43    | 46924    | 37.381    | ug/l   | 92       |
| 52) Toluene                   | 10.234 | 92    | 20436116 | 4560.405  | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 9.819  | 63    | 601      | Below Cal | #      | 48       |
| 67) Ethyl Benzene             | 11.593 | 91    | 238107   | 34.033    | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.697 | 106   | 218536   | 79.563    | ug/l   | 95       |
| 69) o-Xylene                  | 12.026 | 106   | 86373    | 32.933    | ug/l   | 95       |
| 73) Isopropylbenzene          | 12.325 | 105   | 77258    | 26.539    | ug/l   | 100      |
| 78) n-propylbenzene           | 12.666 | 91    | 106111   | 30.781    | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105   | 58308    | 23.739    | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105   | 192987   | 80.299    | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.252 | 105   | 18692    | 5.880     | ug/l   | 80       |
| 86) p-Isopropyltoluene        | 13.367 | 119   | 10558    | 3.926     | ug/l   | 92       |
| 89) n-Butylbenzene            | 13.690 | 91    | 30594    | 12.534    | ug/l # | 69       |
| -----                         |        |       |          |           |        |          |

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

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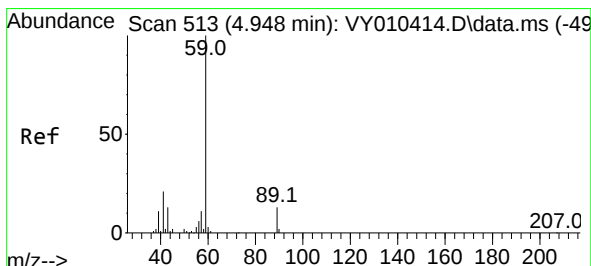
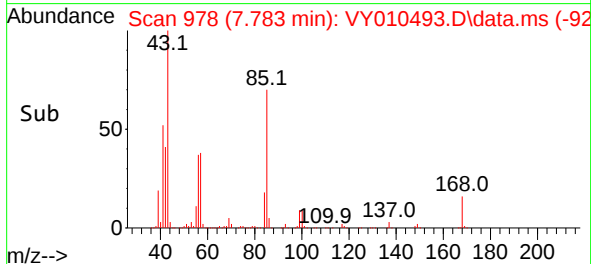
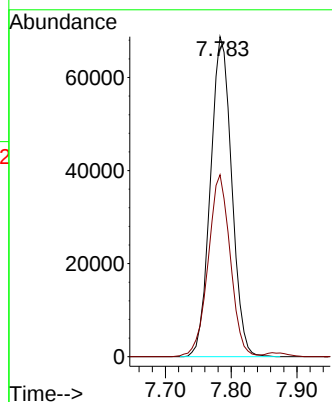
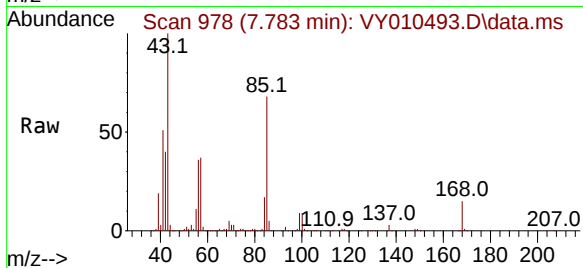




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

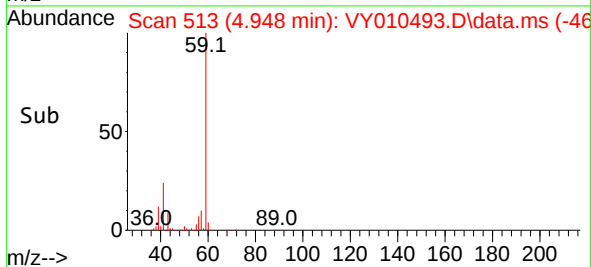
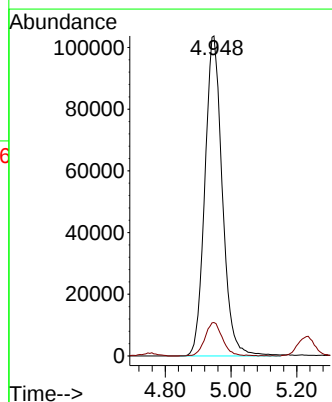
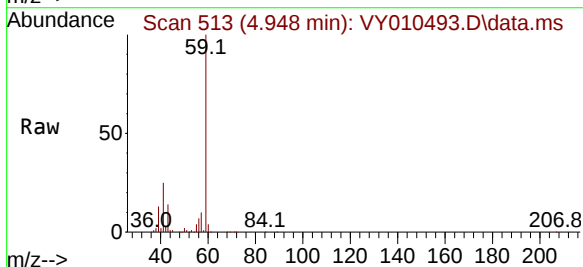
Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

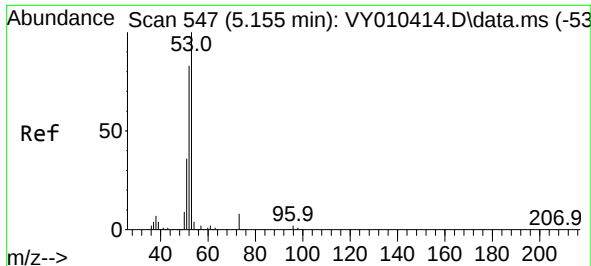
Tgt Ion:168 Resp: 154902  
Ion Ratio Lower Upper  
168 100  
99 56.6 46.9 70.3



#11  
Tert butyl alcohol  
Concen: 2648.744 ug/l  
RT: 4.948 min Scan# 513  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion: 59 Resp: 382516  
Ion Ratio Lower Upper  
59 100  
57 10.5 6.4 9.6#

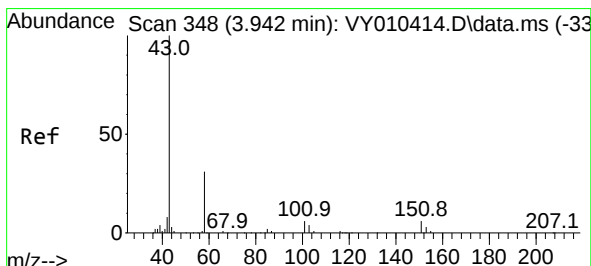
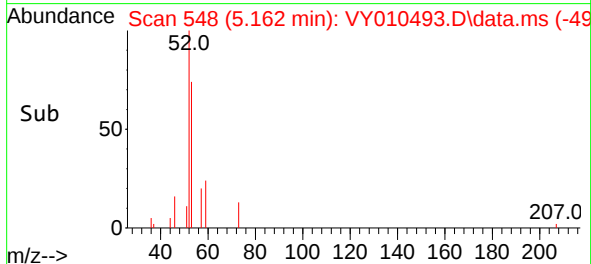
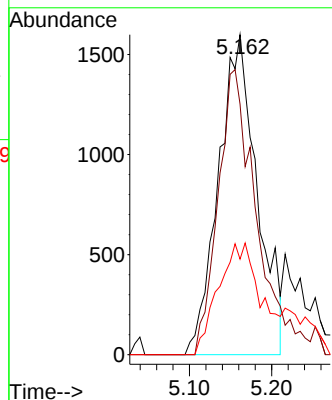
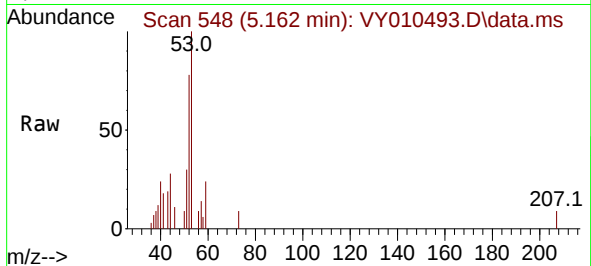




#15  
Acrylonitrile  
Concen: 12.275 ug/l  
RT: 5.162 min Scan# 54  
Delta R.T. 0.007 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

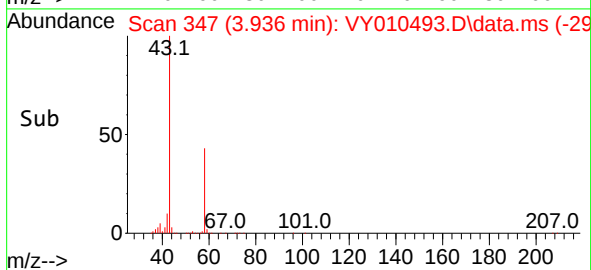
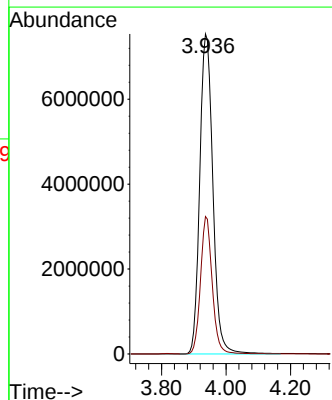
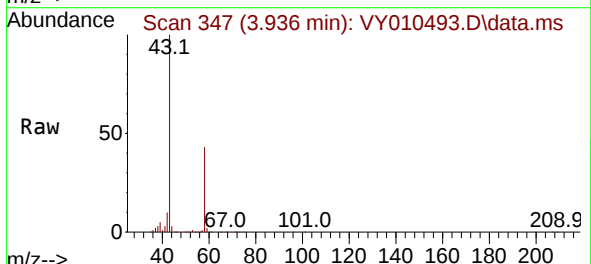
Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

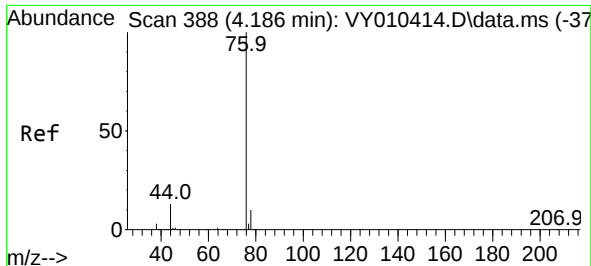
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 53 | Resp: | 5234  |       |
| Ion         | Ratio | Lower | Upper |
| 53          | 100   |       |       |
| 52          | 88.7  | 67.0  | 100.4 |
| 51          | 38.3  | 29.8  | 44.6  |



#16  
Acetone  
Concen: 59383.218 ug/l  
RT: 3.936 min Scan# 347  
Delta R.T. -0.006 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

|             |               |
|-------------|---------------|
| Tgt Ion: 43 | Resp:21261054 |
| Ion Ratio   | Lower Upper   |
| 43 100      |               |
| 58 42.9     | 22.0 33.0#    |

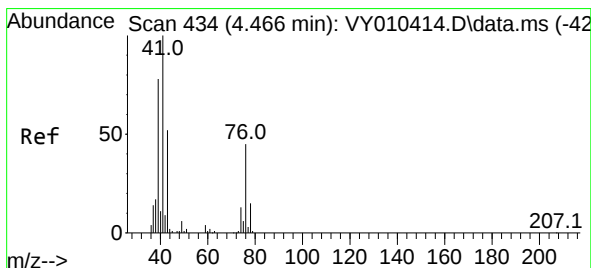
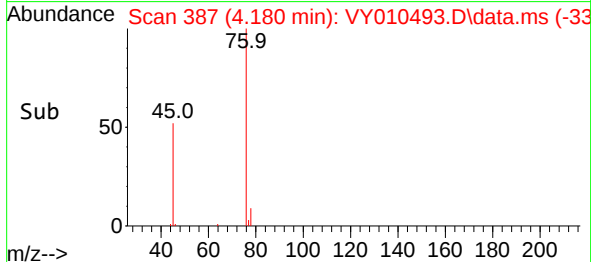
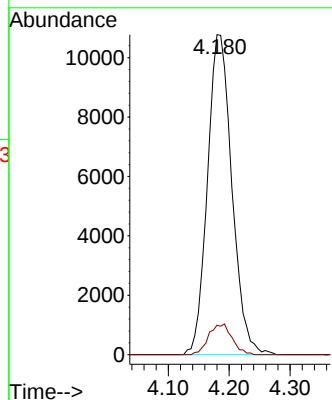
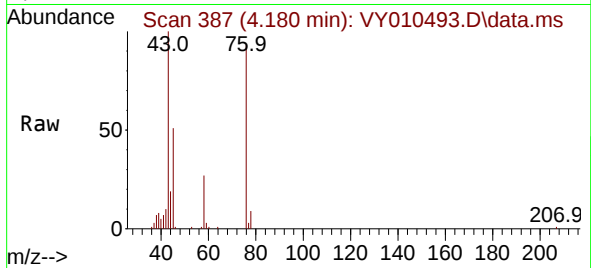




#17  
Carbon Disulfide  
Concen: 7.446 ug/l  
RT: 4.180 min Scan# 387  
Delta R.T. -0.006 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

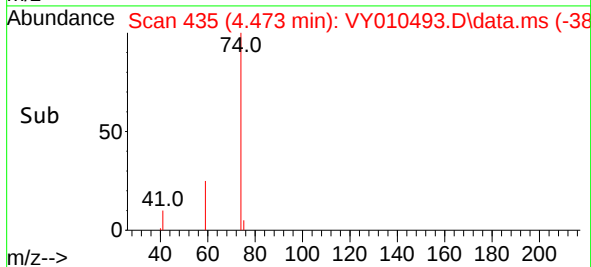
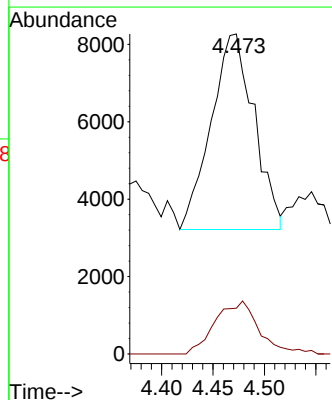
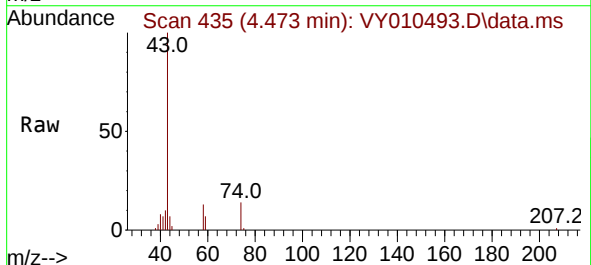
Instrument :  
MSVOA\_Y  
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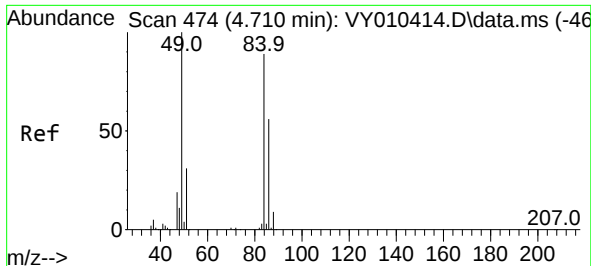
Tgt Ion: 76 Resp: 30078  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.4 11.0



#18  
Methyl Acetate  
Concen: 13.331 ug/l  
RT: 4.473 min Scan# 435  
Delta R.T. 0.007 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion: 43 Resp: 14684  
Ion Ratio Lower Upper  
43 100  
74 27.6 16.6 24.8#



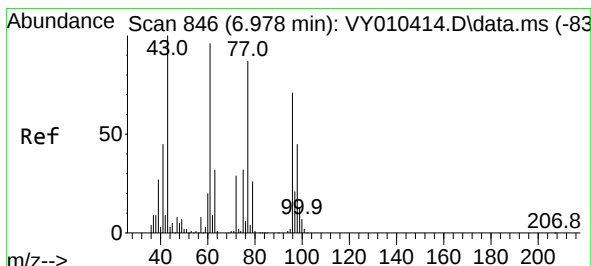
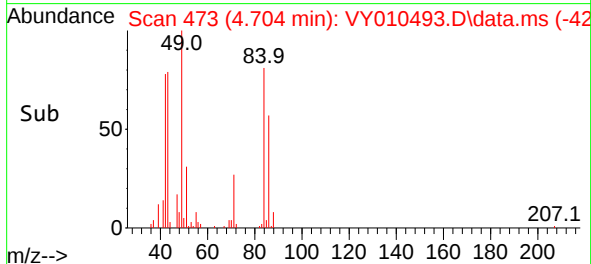
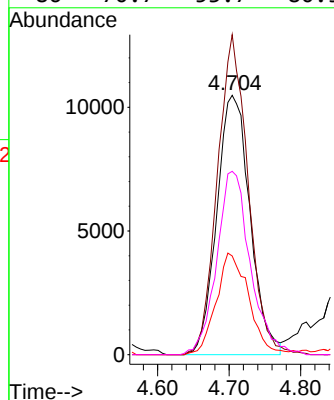
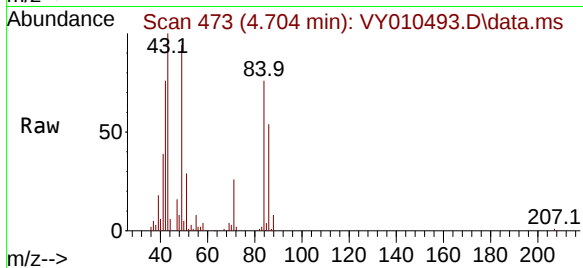


#20  
Methylene Chloride  
Concen: 14.649 ug/l  
RT: 4.704 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

Tgt Ion: 84 Resp: 33818

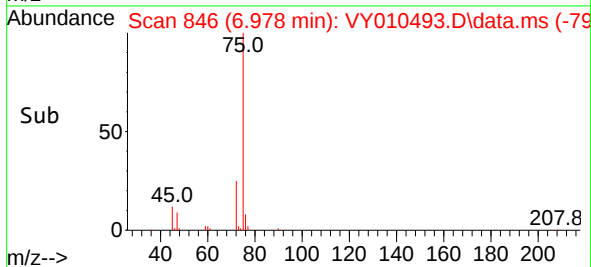
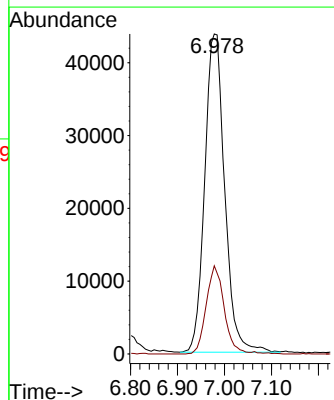
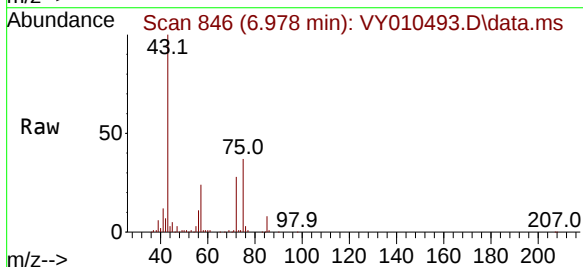
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 123.3 | 114.4 | 171.6 |
| 51  | 38.1  | 35.3  | 52.9  |
| 86  | 70.7  | 53.7  | 80.5  |

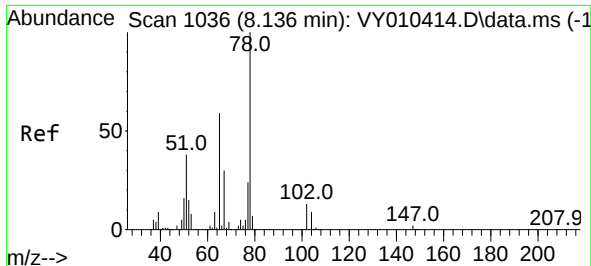


#25  
2-Butanone  
Concen: 226.429 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion: 43 Resp: 128836

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 27.7  | 17.7  | 26.5# |

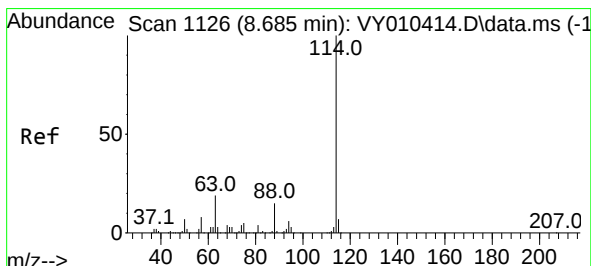
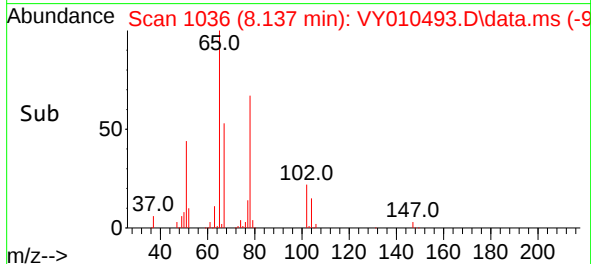
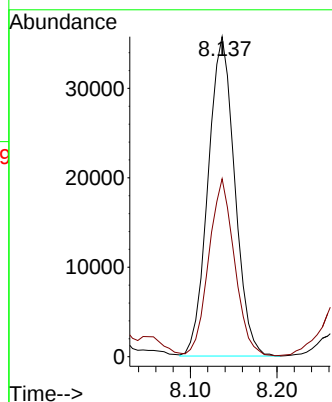
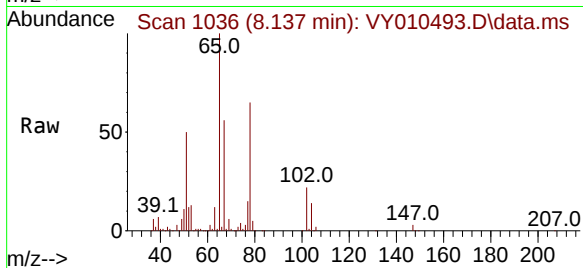




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.963 ug/l  
 RT: 8.137 min Scan# 1036  
 Delta R.T. 0.001 min  
 Lab File: VY010493.D  
 Acq: 14 Sep 2022 18:44

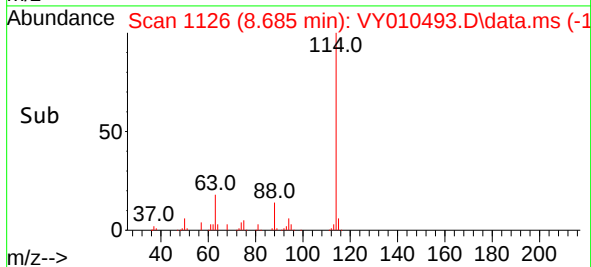
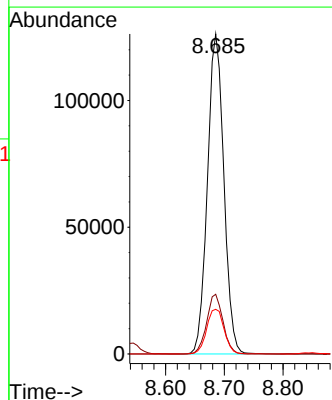
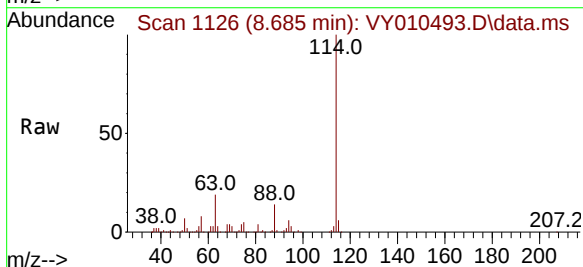
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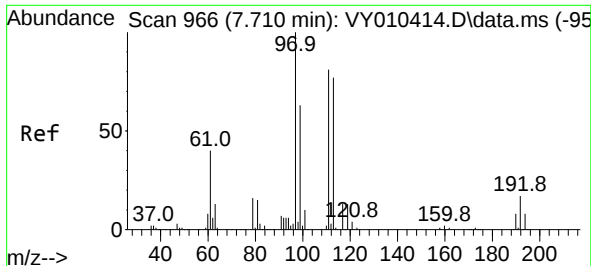
Tgt Ion: 65 Resp: 76388  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 0.0 99.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.685 min Scan# 1126  
 Delta R.T. 0.000 min  
 Lab File: VY010493.D  
 Acq: 14 Sep 2022 18:44

Tgt Ion: 114 Resp: 244666  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 43.2  
 88 14.0 0.0 31.8

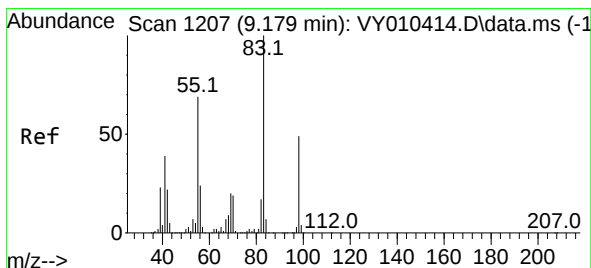
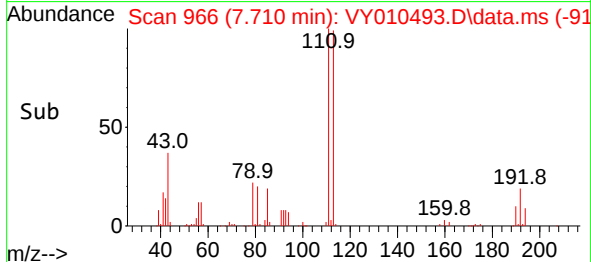
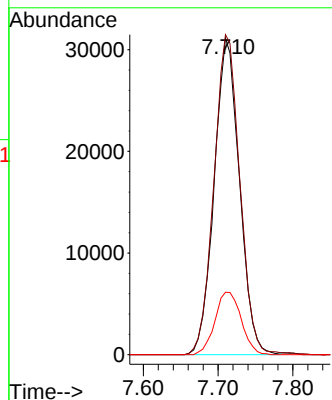
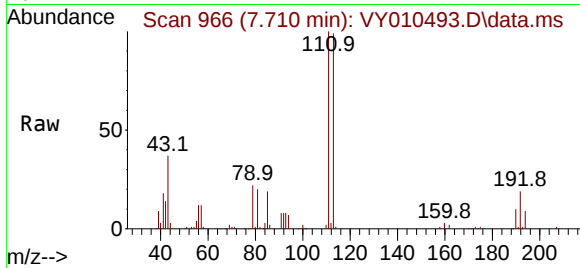




#35  
Dibromofluoromethane  
Concen: 42.130 ug/l  
RT: 7.710 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

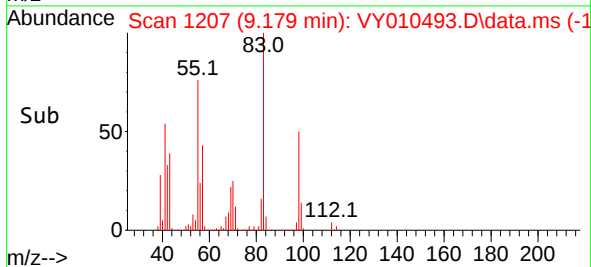
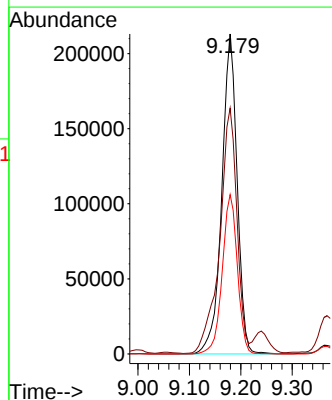
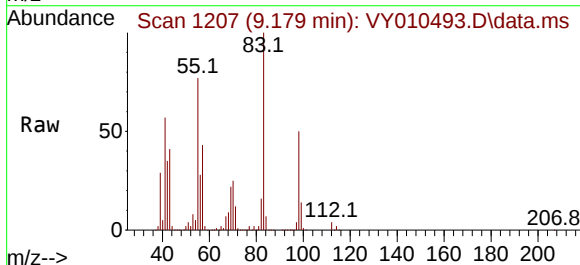
Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

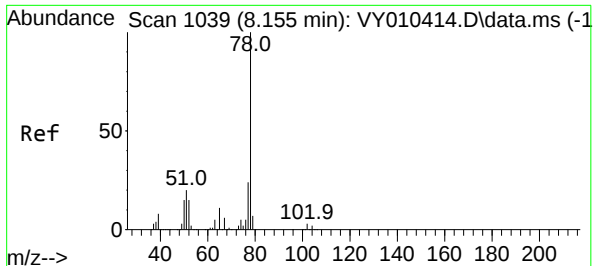
Tgt Ion:113 Resp: 73207  
Ion Ratio Lower Upper  
113 100  
111 103.6 82.6 124.0  
192 20.5 17.6 26.4



#39  
Methylcyclohexane  
Concen: 148.941 ug/l  
RT: 9.179 min Scan# 1207  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion: 83 Resp: 441777  
Ion Ratio Lower Upper  
83 100  
55 76.6 66.5 99.7  
98 49.8 37.9 56.9

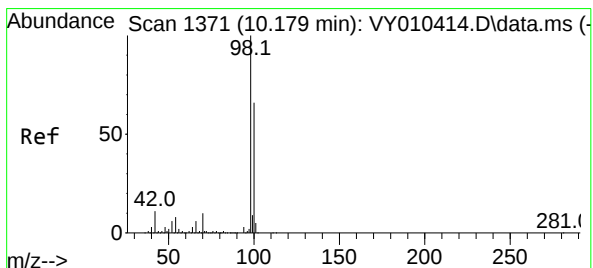
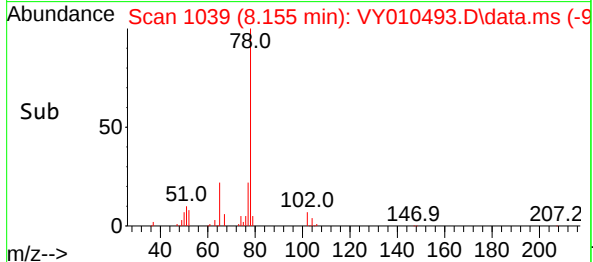
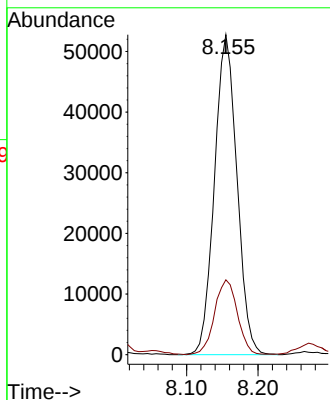
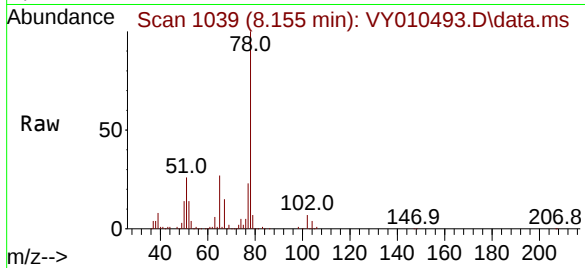




#40  
Benzene  
Concen: 16.826 ug/l  
RT: 8.155 min Scan# 1039  
Delta R.T. -0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

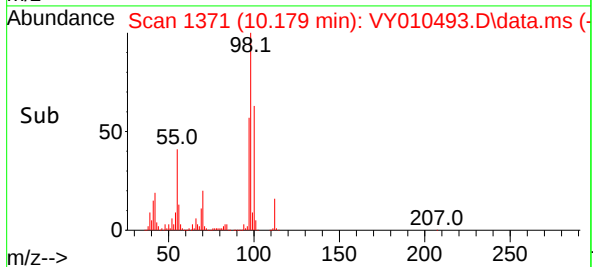
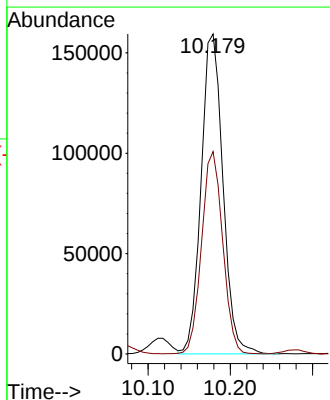
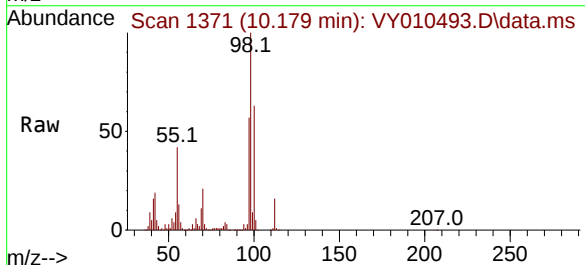
Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

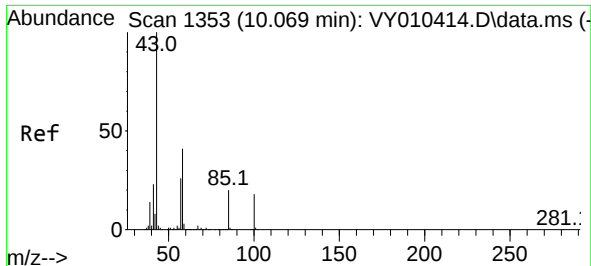
Tgt Ion: 78 Resp: 115224  
Ion Ratio Lower Upper  
78 100  
77 23.2 20.4 30.6



#50  
Toluene-d8  
Concen: 52.144 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion: 98 Resp: 293653  
Ion Ratio Lower Upper  
98 100  
100 61.2 50.2 75.2

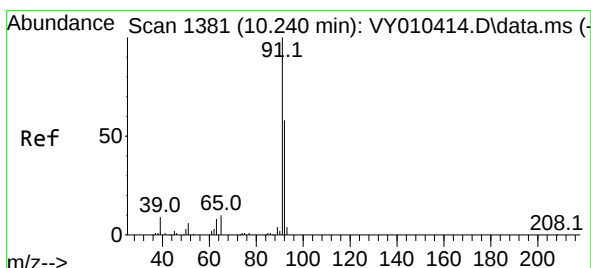
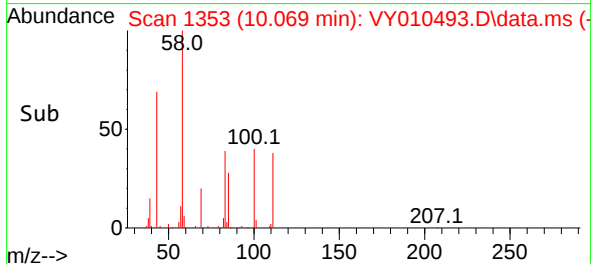
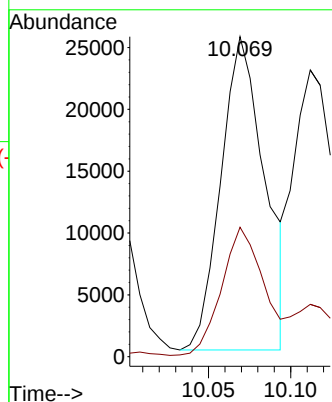
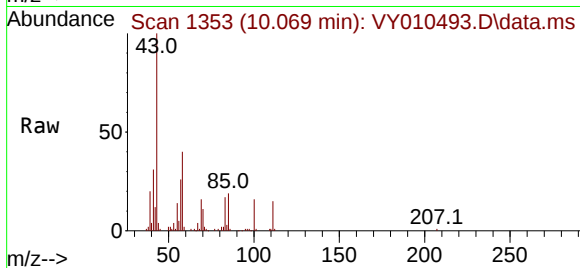




#51  
4-Methyl-2-Pentanone  
Concen: 37.381 ug/l  
RT: 10.069 min Scan# 1353  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

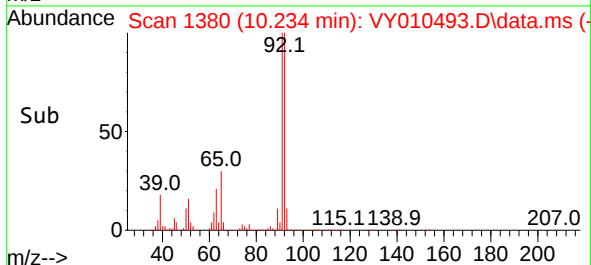
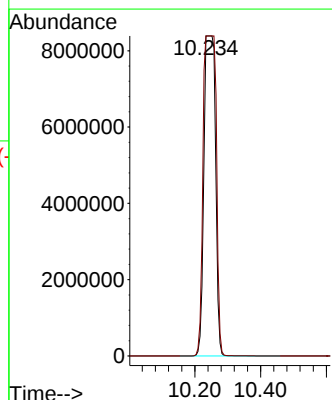
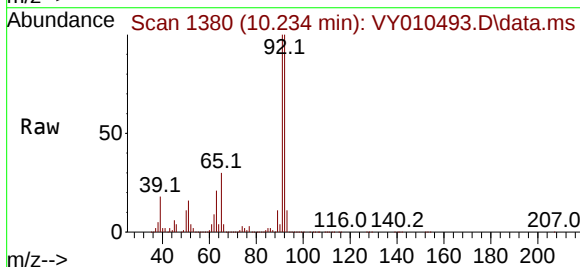
Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

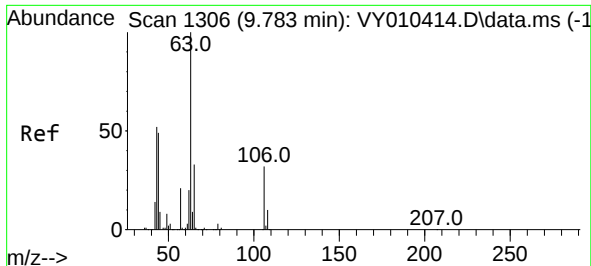
Tgt Ion: 43 Resp: 46924  
Ion Ratio Lower Upper  
43 100  
58 39.5 28.1 42.1



#52  
Toluene  
Concen: 4560.405 ug/l  
RT: 10.234 min Scan# 1380  
Delta R.T. -0.006 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion: 92 Resp: 20436116  
Ion Ratio Lower Upper  
92 100  
91 0.0 142.6 213.8#





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 9.819 min Scan# 11

Delta R.T. 0.036 min

Lab File: VY010493.D

Acq: 14 Sep 2022 18:44

Instrument :

MSVOA\_Y

ClientSampleId :

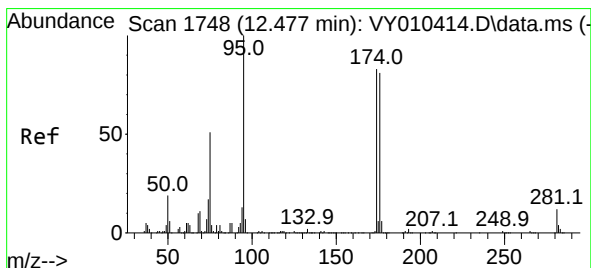
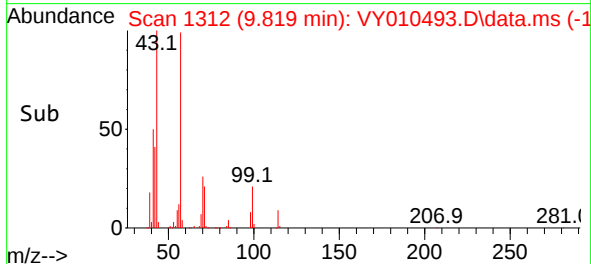
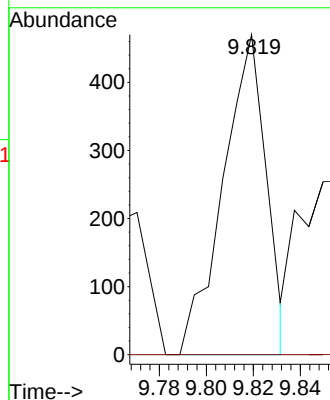
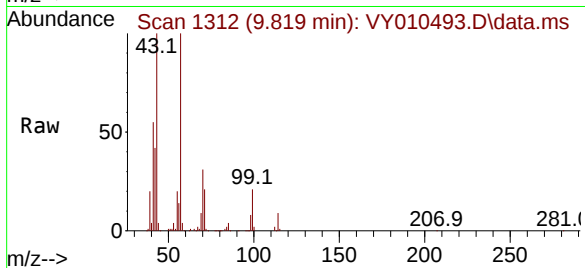
AUD-1647

Tgt Ion: 63 Resp: 601

Ion Ratio Lower Upper

63 100

106 0.0 21.5 32.3#



#62

4-Bromofluorobenzene

Concen: 23.616 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY010493.D

Acq: 14 Sep 2022 18:44

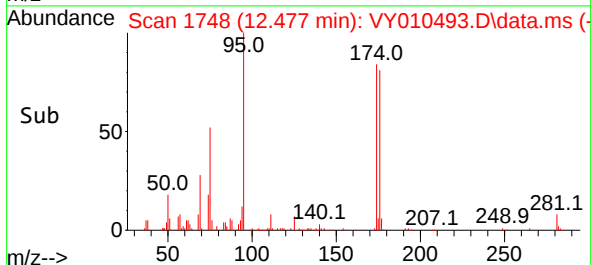
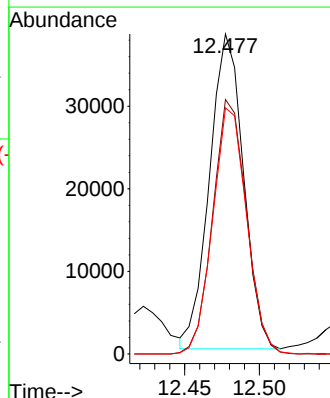
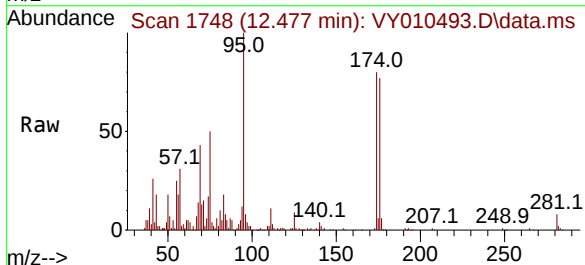
Tgt Ion: 95 Resp: 59966

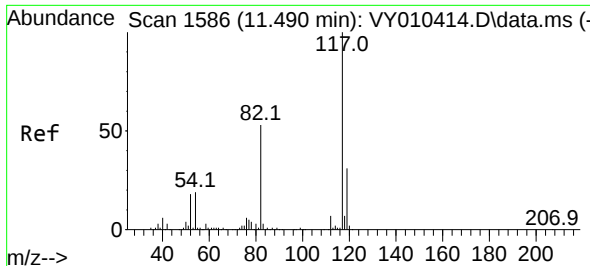
Ion Ratio Lower Upper

95 100

174 80.5 0.0 177.0

176 78.7 0.0 175.8

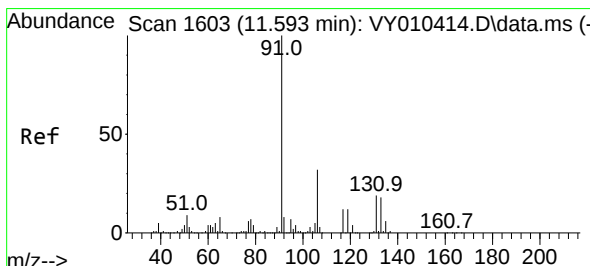
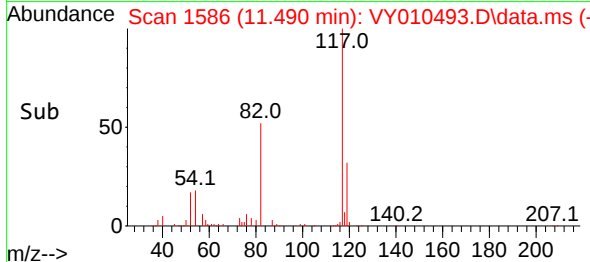
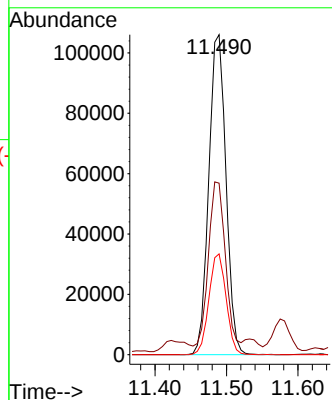
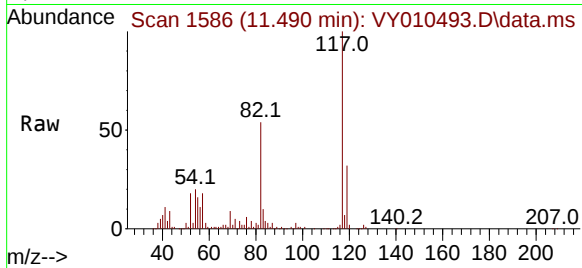




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

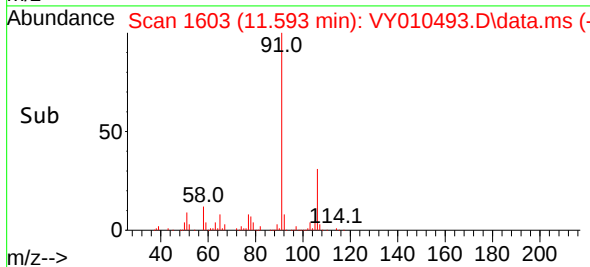
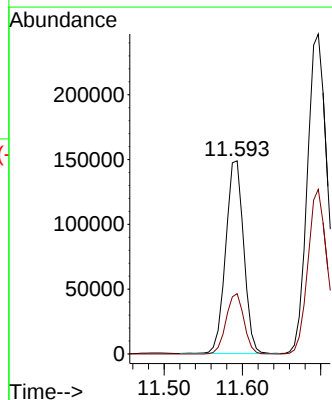
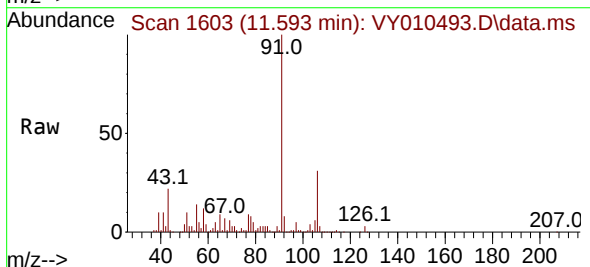
Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

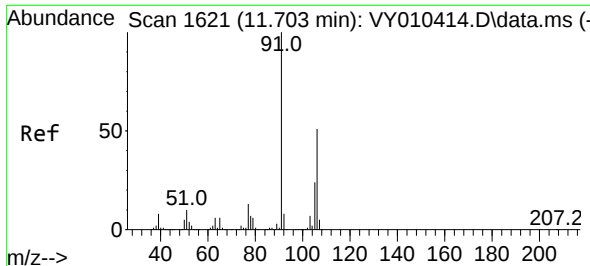
Tgt Ion:117 Resp: 176766  
Ion Ratio Lower Upper  
117 100  
82 49.7 43.0 64.4  
119 31.5 25.4 38.0



#67  
Ethyl Benzene  
Concen: 34.033 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion: 91 Resp: 238107  
Ion Ratio Lower Upper  
91 100  
106 31.3 24.5 36.7

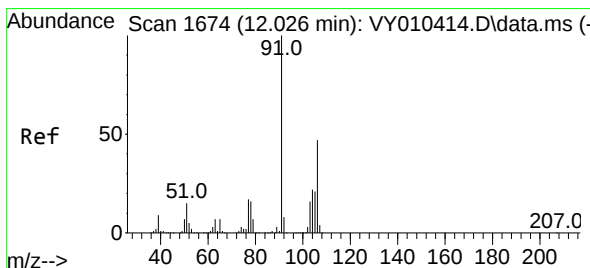
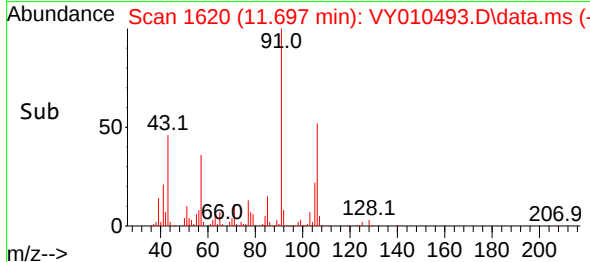
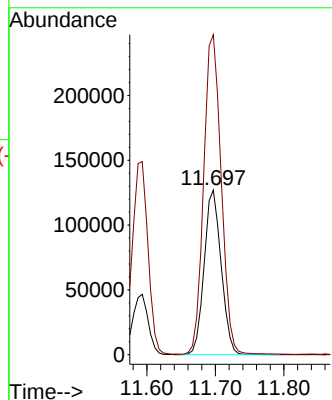
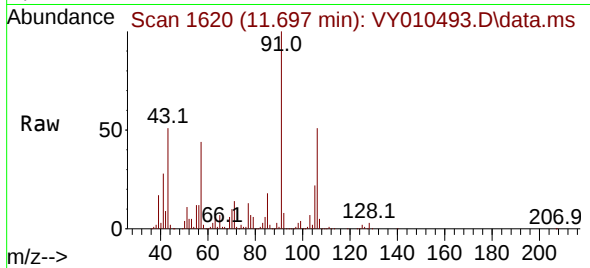




#68  
m/p-Xylenes  
Concen: 79.563 ug/l  
RT: 11.697 min Scan# 1620  
Delta R.T. -0.006 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

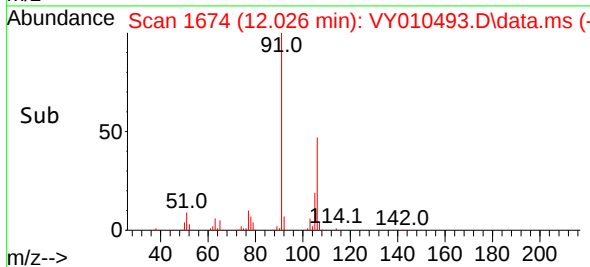
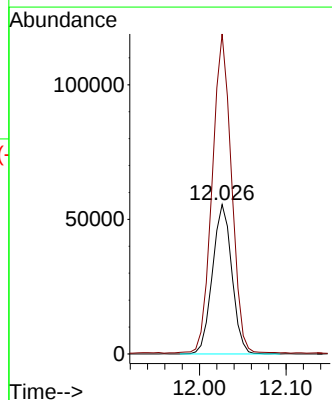
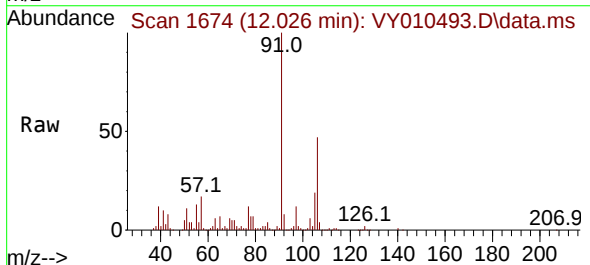
Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

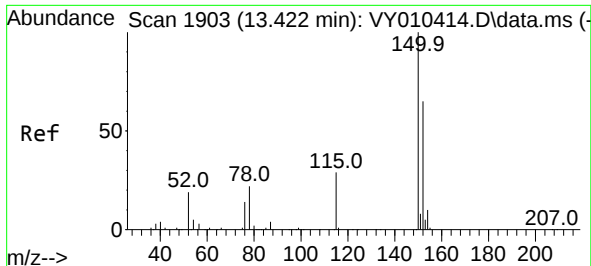
Tgt Ion:106 Resp: 218536  
Ion Ratio Lower Upper  
106 100  
91 201.1 166.6 249.8



#69  
o-Xylene  
Concen: 32.933 ug/l  
RT: 12.026 min Scan# 1674  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Tgt Ion:106 Resp: 86373  
Ion Ratio Lower Upper  
106 100  
91 212.3 110.3 331.0

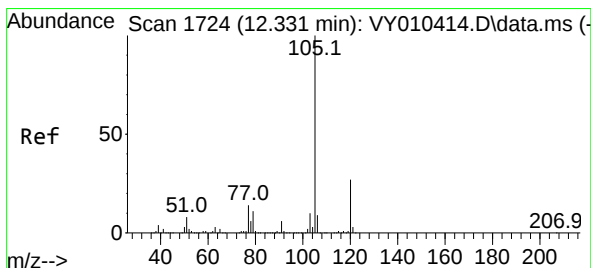
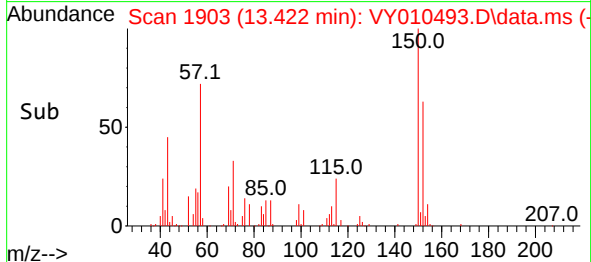
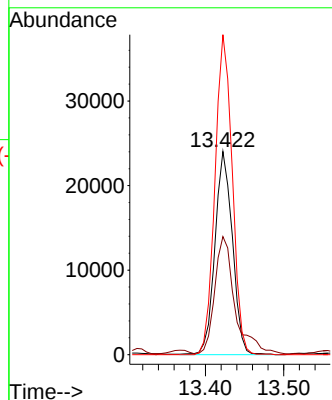
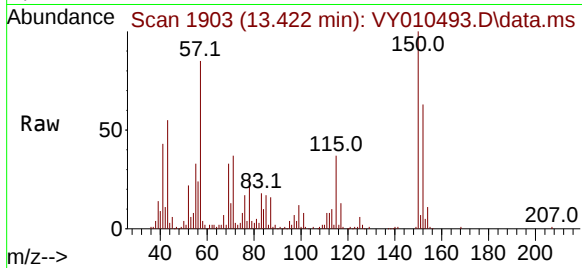




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1903  
 Delta R.T. 0.000 min  
 Lab File: VY010493.D  
 Acq: 14 Sep 2022 18:44

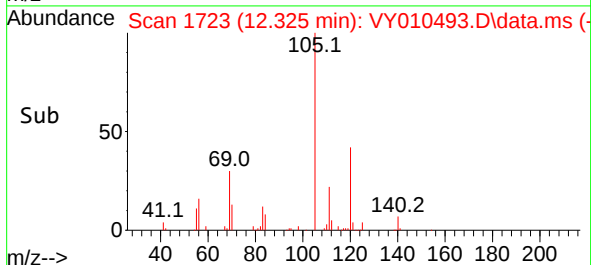
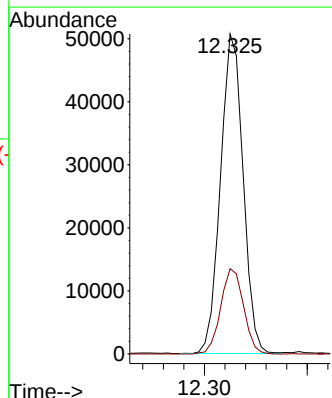
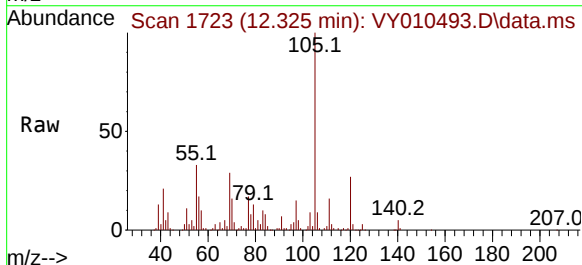
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 AUD-1647

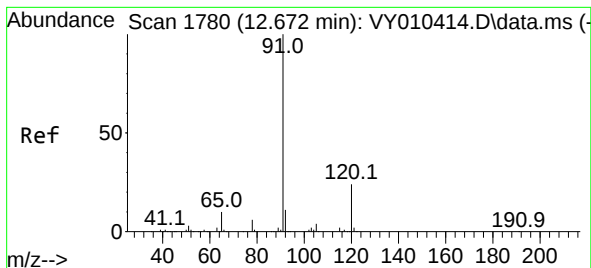
Tgt Ion:152 Resp: 37311  
 Ion Ratio Lower Upper  
 152 100  
 115 66.1 28.2 84.7  
 150 155.5 0.0 347.6



#73  
 Isopropylbenzene  
 Concen: 26.539 ug/l  
 RT: 12.325 min Scan# 1723  
 Delta R.T. -0.006 min  
 Lab File: VY010493.D  
 Acq: 14 Sep 2022 18:44

Tgt Ion:105 Resp: 77258  
 Ion Ratio Lower Upper  
 105 100  
 120 26.9 13.4 40.2





#78

n-propylbenzene

Concen: 30.781 ug/l

RT: 12.666 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY010493.D

Acq: 14 Sep 2022 18:44

Instrument :

MSVOA\_Y

ClientSampleId :

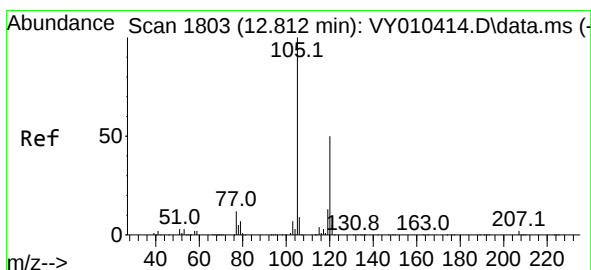
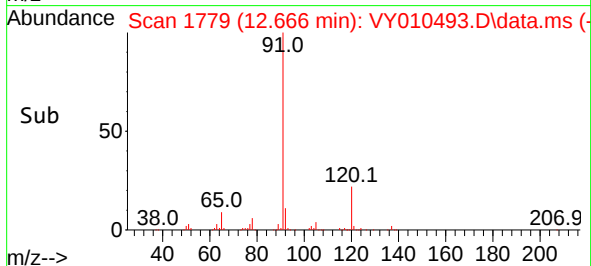
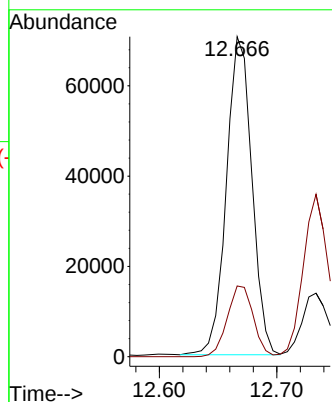
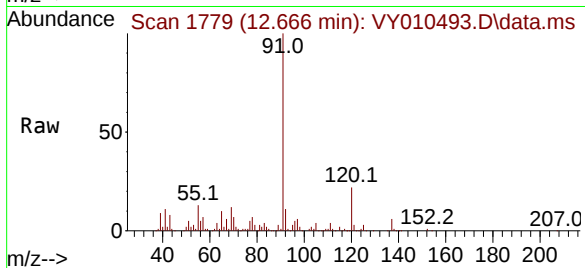
AUD-1647

Tgt Ion: 91 Resp: 106111

Ion Ratio Lower Upper

91 100

120 22.7 11.3 33.9



#80

1,3,5-Trimethylbenzene

Concen: 23.739 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. -0.006 min

Lab File: VY010493.D

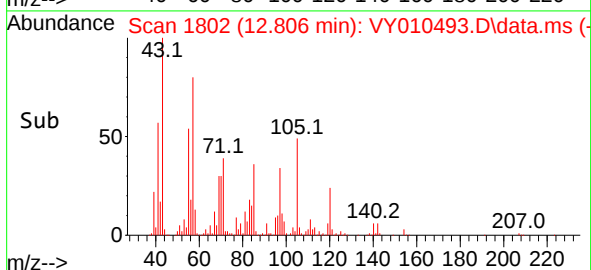
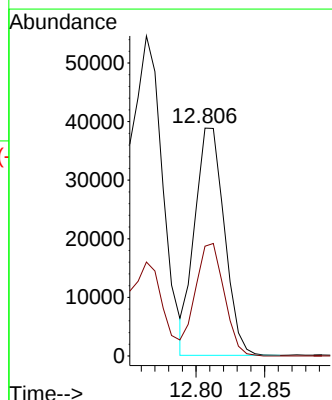
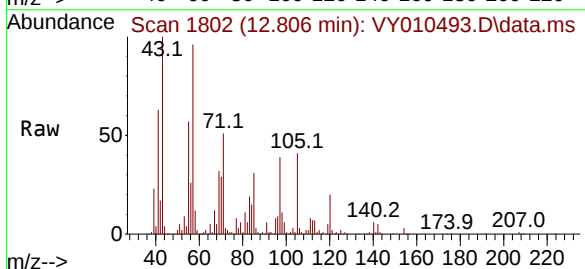
Acq: 14 Sep 2022 18:44

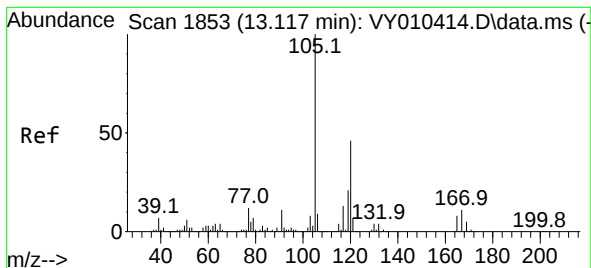
Tgt Ion:105 Resp: 58308

Ion Ratio Lower Upper

105 100

120 48.2 24.4 73.4





#84

1,2,4-Trimethylbenzene

Concen: 80.299 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY010493.D

Acq: 14 Sep 2022 18:44

Instrument :

MSVOA\_Y

ClientSampleId :

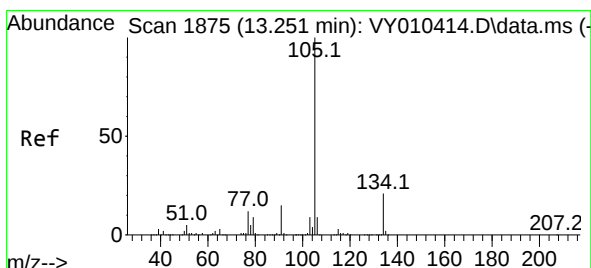
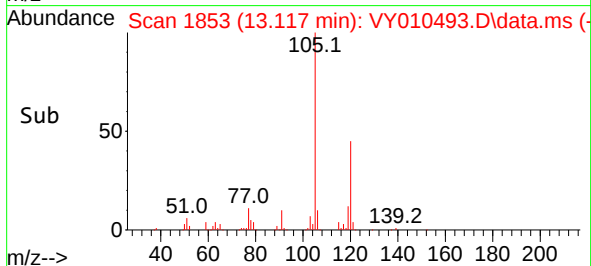
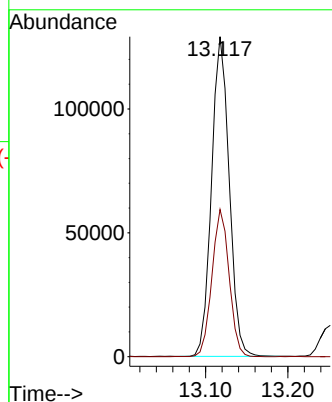
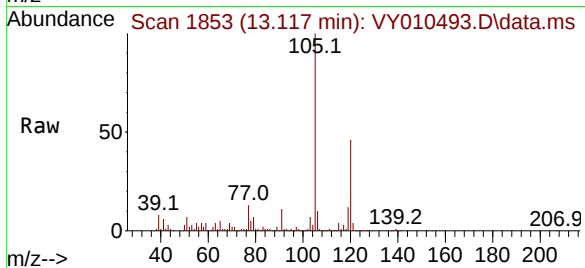
AUD-1647

Tgt Ion:105 Resp: 192987

Ion Ratio Lower Upper

105 100

120 44.8 22.3 66.9



#85

sec-Butylbenzene

Concen: 5.880 ug/l

RT: 13.252 min Scan# 1875

Delta R.T. 0.001 min

Lab File: VY010493.D

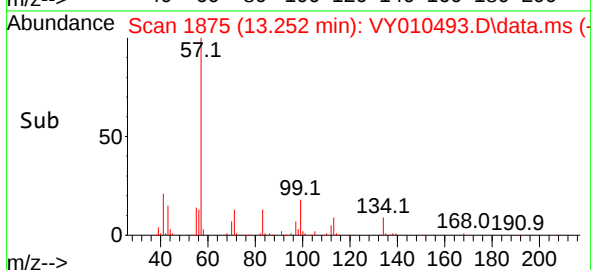
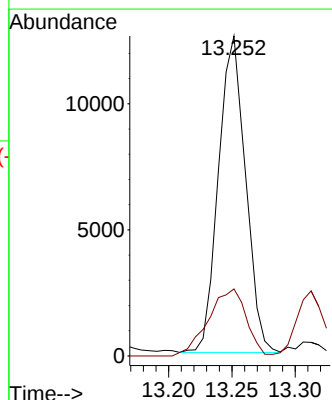
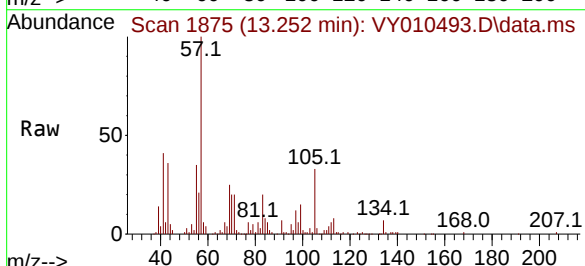
Acq: 14 Sep 2022 18:44

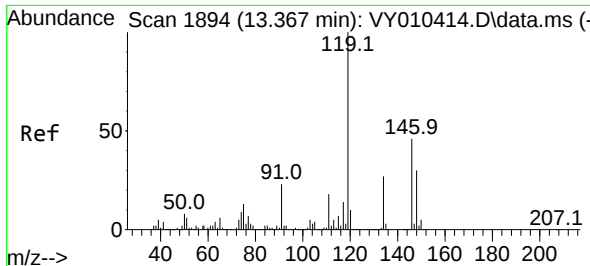
Tgt Ion:105 Resp: 18692

Ion Ratio Lower Upper

105 100

134 29.5 10.2 30.4

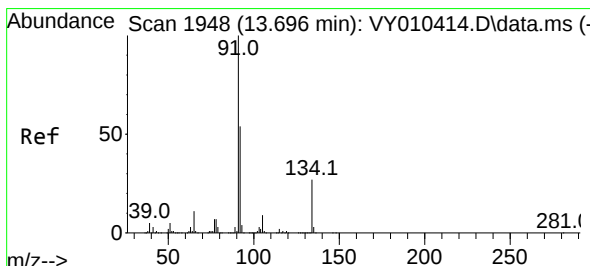
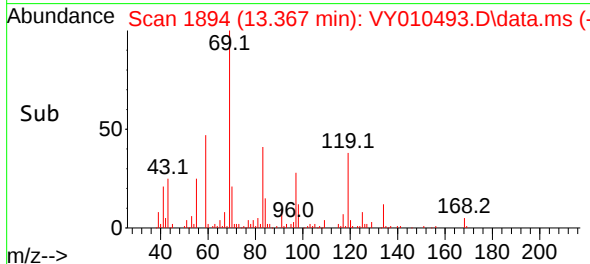
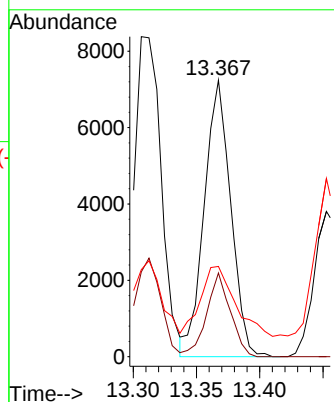
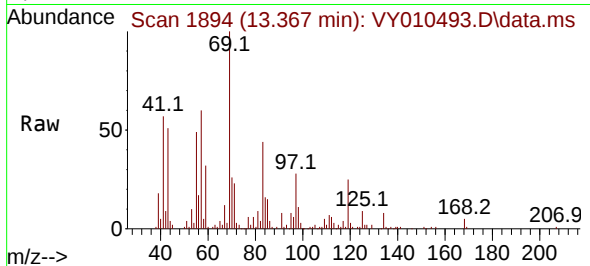




#86  
p-Isopropyltoluene  
Concen: 3.926 ug/l  
RT: 13.367 min Scan# 119  
Delta R.T. 0.000 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
AUD-1647

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 10558 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 27.2  | 13.2  | 39.5  |
| 91       | 32.3  | 12.4  | 37.2  |



#89  
n-Butylbenzene  
Concen: 12.534 ug/l  
RT: 13.690 min Scan# 1947  
Delta R.T. -0.006 min  
Lab File: VY010493.D  
Acq: 14 Sep 2022 18:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 30594 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 37.4  | 26.3  | 78.9  |
| 134      | 0.0   | 13.0  | 38.9  |

