

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120721\  
 Data File : VU046139.D  
 Acq On : 07 Dec 2021 14:40  
 Operator : SY/MD  
 Sample : M4960-10  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BGKS3

Quant Time: Dec 08 04:53:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 235029   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 228101   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 124708   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 87318    | 45.101   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 90.200%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 65827    | 44.284   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 88.560%  |
| 11) 1,1-Dichloroethene-d2     | 2.572   | 63    | 121130   | 34.852   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 69.700%  |
| 21) 2-Butanone-d5             | 4.639   | 46    | 128301   | 83.363   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 83.360%  |
| 24) Chloroform-d              | 5.067   | 84    | 153535   | 47.488   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.980%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 98985    | 45.620   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.240%  |
| 32) Benzene-d6                | 5.729   | 84    | 323504   | 49.482   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.960%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 98533    | 48.630   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 97.260%  |
| 41) Toluene-d8                | 7.899   | 98    | 303132   | 50.924   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 101.840% |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 47111    | 48.166   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.340%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 101078   | 105.215  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 105.210% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 146383   | 47.639   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.280%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 123140   | 51.273   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 102.540% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 13) Acetone                   | 2.658   | 43    | 9770     | 5.079    | ug/L   | 95       |
| 19) 1,1-Dichloroethane        | 3.874   | 63    | 61515    | 19.673   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 18936    | 10.148   | ug/L   | 99       |
| 22) 2-Butanone                | 4.723   | 43    | 5146     | 2.458    | ug/L   | 80       |
| 27) 1,2-Dichloroethane        | 5.797   | 62    | 4116     | 1.597    | ug/L   | 98       |
| 29) Cyclohexane               | 5.388   | 56    | 6716     | 2.529    | ug/L   | 88       |
| 33) Benzene                   | 5.777   | 78    | 48955    | 7.091    | ug/L   | 100      |
| 35) Methylcyclohexane         | 6.771   | 83    | 3610     | 1.280    | ug/L # | 72       |
| 42) Toluene                   | 7.970   | 91    | 243354   | 32.851   | ug/L   | 99       |
| 51) Chlorobenzene             | 9.446   | 112   | 3790     | 0.791    | ug/L   | 92       |
| 52) Ethylbenzene              | 9.571   | 91    | 407143   | 51.068   | ug/L   | 98       |
| 53) m,p-Xylene                | 9.693   | 106   | 192034   | 61.764   | ug/L   | 100      |
| 54) o-xylene                  | 10.102  | 106   | 75380    | 24.986   | ug/L   | 95       |
| 61) Isopropylbenzene          | 10.484  | 105   | 102371   | 12.617   | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.089  | 105   | 37125    | 5.489    | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.468  | 105   | 198137   | 29.282   | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211  | 146   | 15090    | 3.888    | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841  | 180   | 7104     | 2.851    | ug/L # | 86       |
| -----                         |         |       |          |          |        |          |

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Sample : M4960-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKS3

Quant Time: Dec 08 04:53:15 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 03 05:08:36 2021  
Response via : Initial Calibration

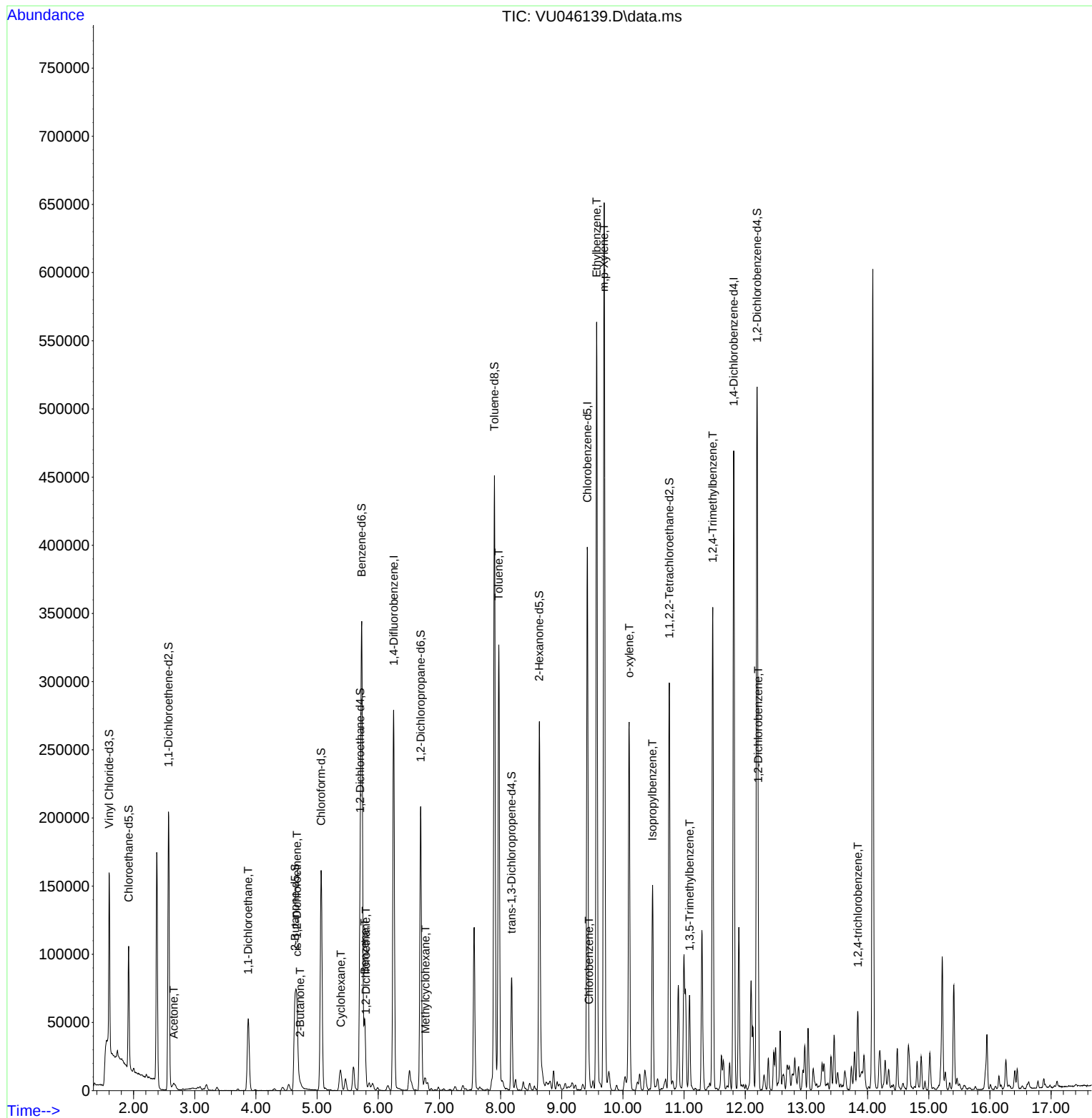
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

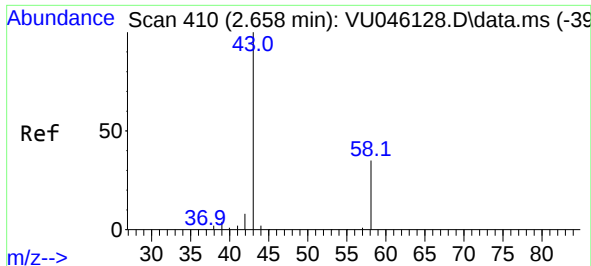
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 5.079 ug/L

RT: 2.658 min Scan# 41

Delta R.T. -0.003 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA\_U

ClientSampleId :

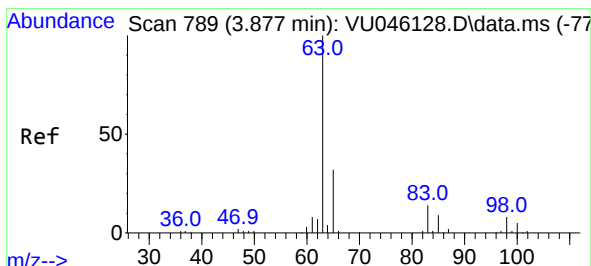
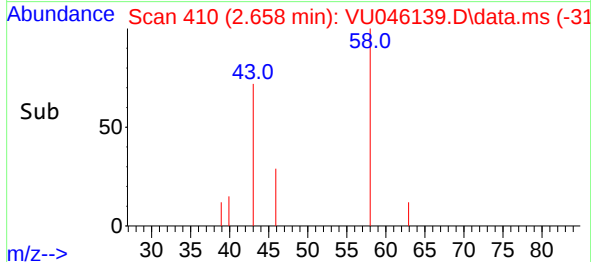
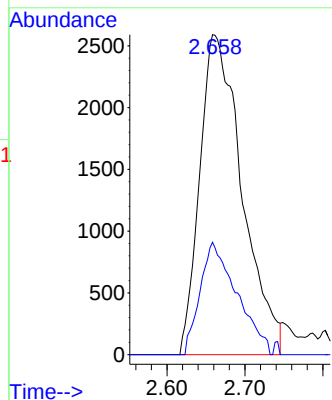
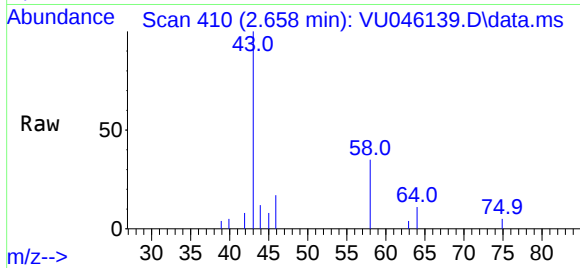
BGKS3

Tgt Ion: 43 Resp: 9770

Ion Ratio Lower Upper

43 100

58 30.6 0.0 66.8



#19

1,1-Dichloroethane

Concen: 19.673 ug/L

RT: 3.874 min Scan# 788

Delta R.T. -0.003 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

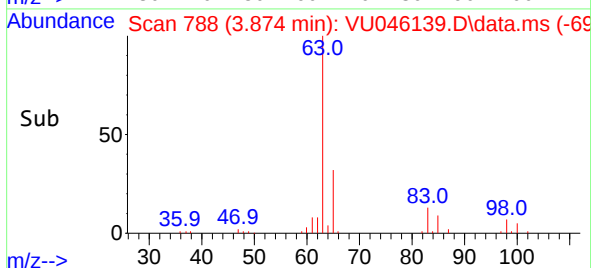
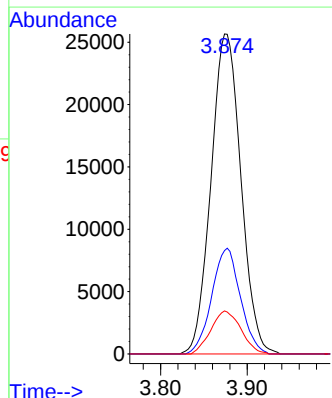
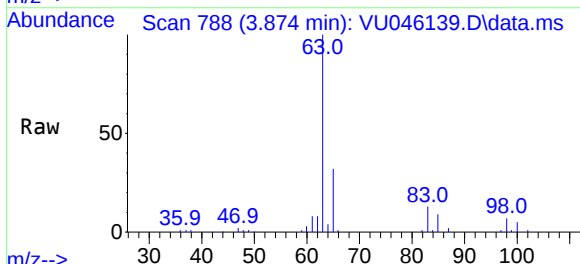
Tgt Ion: 63 Resp: 61515

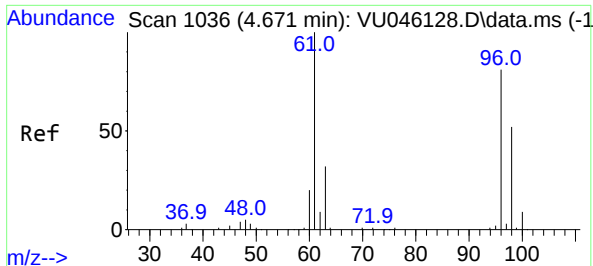
Ion Ratio Lower Upper

63 100

65 32.3 22.8 42.4

83 13.5 9.6 17.8





#20

cis-1,2-Dichloroethene

Concen: 10.148 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA\_U

ClientSampleId :

BGKS3

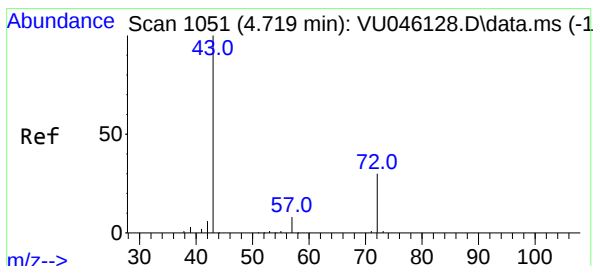
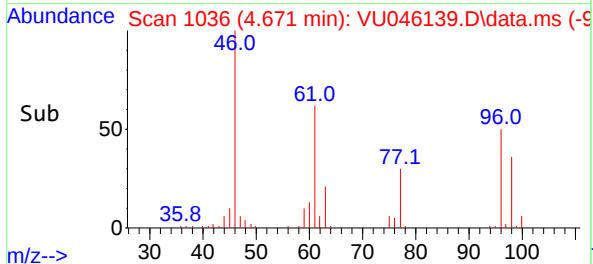
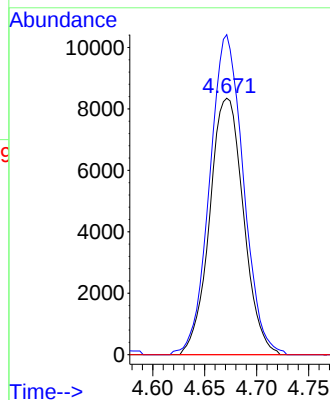
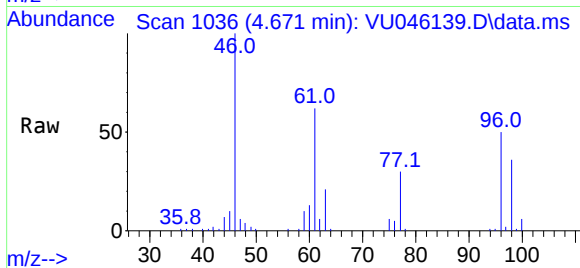
Tgt Ion: 96 Resp: 18936

Ion Ratio Lower Upper

96 100

61 124.8 86.8 161.2

68 0.0 0.0 0.0



#22

2-Butanone

Concen: 2.458 ug/L

RT: 4.723 min Scan# 1052

Delta R.T. -0.000 min

Lab File: VU046139.D

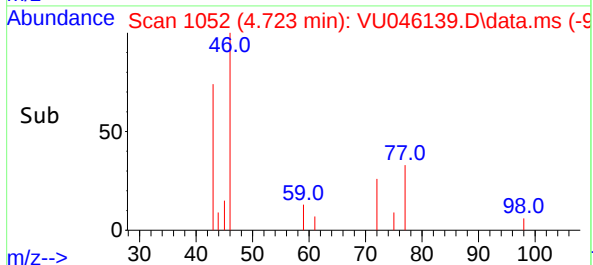
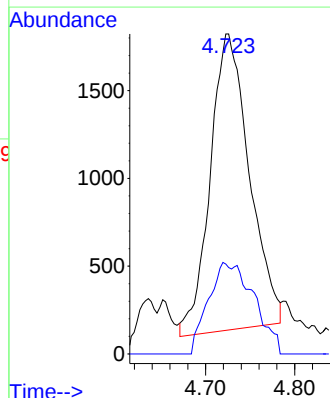
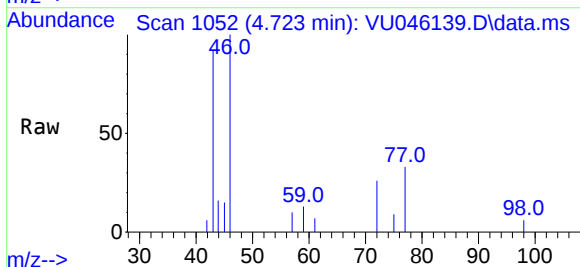
Acq: 07 Dec 2021 14:40

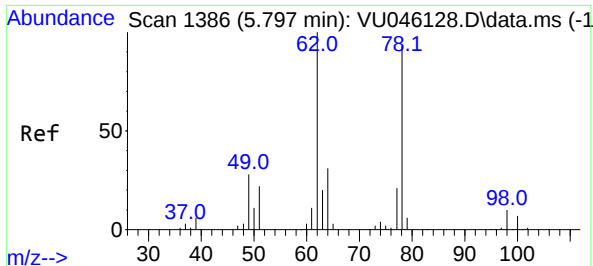
Tgt Ion: 43 Resp: 5146

Ion Ratio Lower Upper

43 100

72 18.3 14.5 43.6

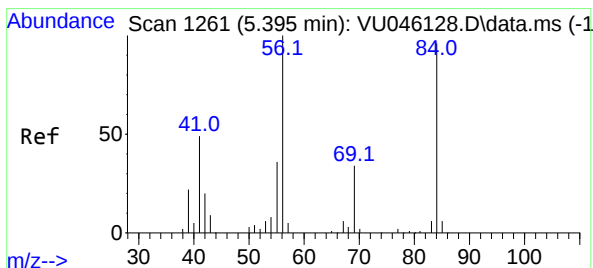
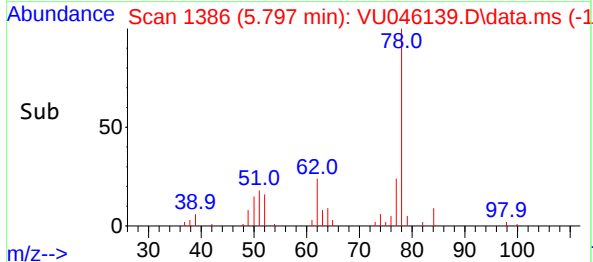
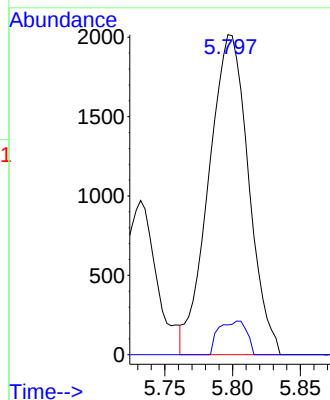
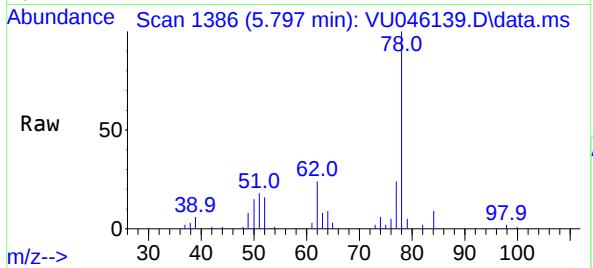




#27  
1,2-Dichloroethane  
Concen: 1.597 ug/L  
RT: 5.797 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

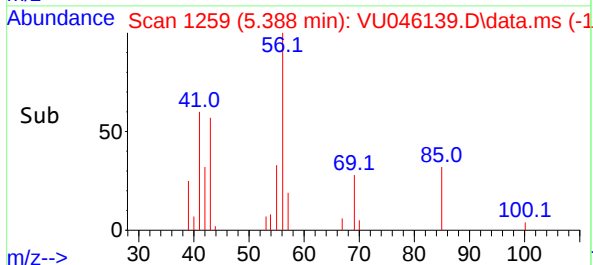
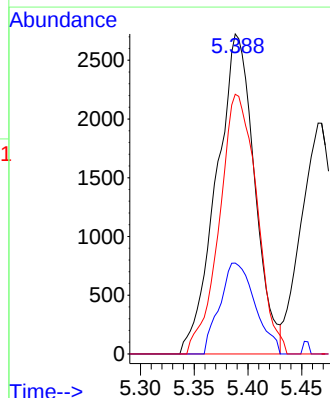
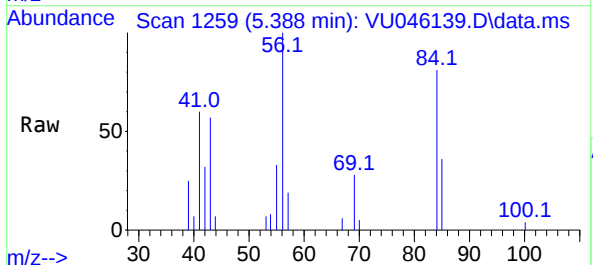
Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKS3

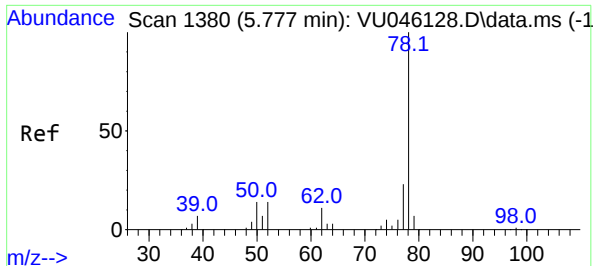
Tgt Ion: 62 Resp: 4116  
Ion Ratio Lower Upper  
62 100  
98 9.3 7.9 11.9



#29  
Cyclohexane  
Concen: 2.529 ug/L  
RT: 5.388 min Scan# 1259  
Delta R.T. -0.006 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

Tgt Ion: 56 Resp: 6716  
Ion Ratio Lower Upper  
56 100  
69 26.2 25.2 37.8  
84 79.5 73.3 109.9

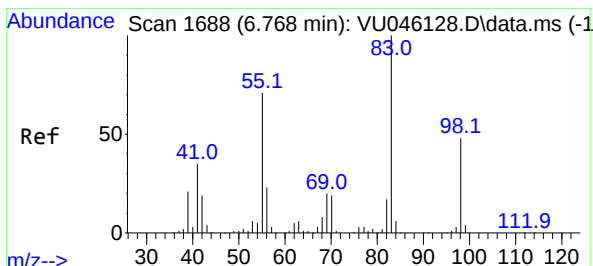
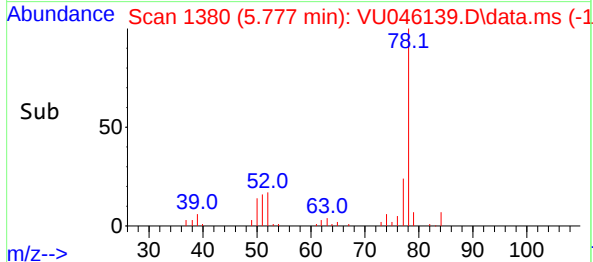
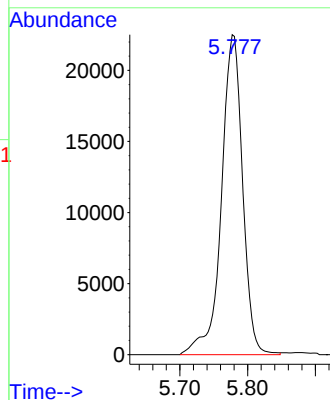
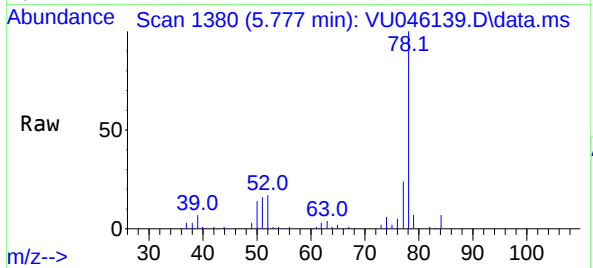




#33  
Benzene  
Concen: 7.091 ug/L  
RT: 5.777 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

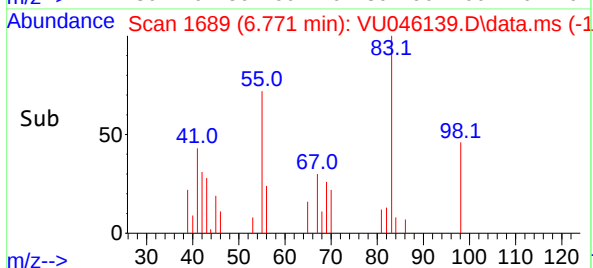
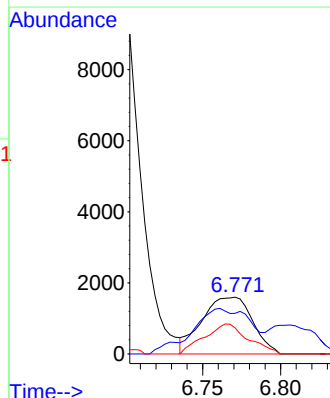
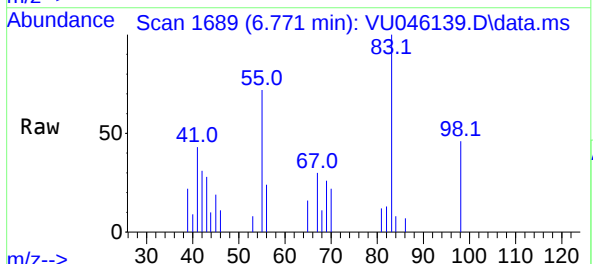
Tgt Ion: 78 Resp: 48955

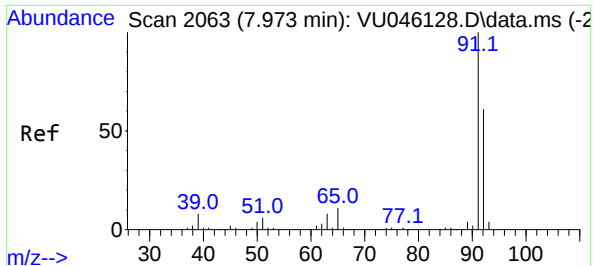
Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKS3



#35  
Methylcyclohexane  
Concen: 1.280 ug/L  
RT: 6.771 min Scan# 1689  
Delta R.T. 0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

Tgt Ion: 83 Resp: 3610  
Ion Ratio Lower Upper  
83 100  
55 34.7 57.8 86.6#  
98 45.5 38.4 57.6

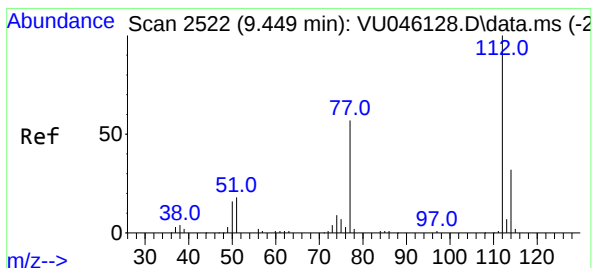
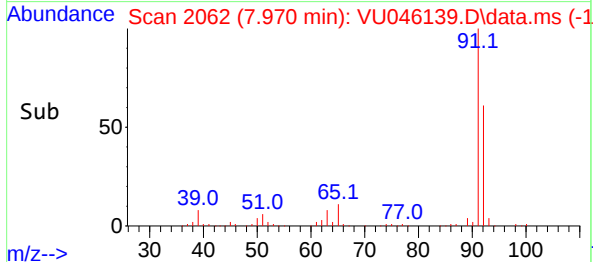
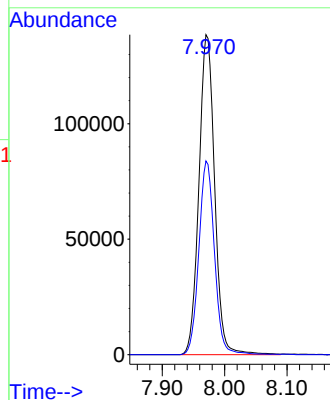
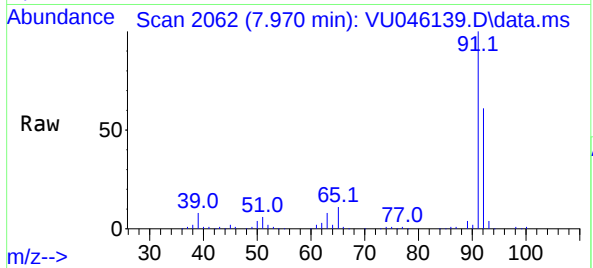




#42  
Toluene  
Concen: 32.851 ug/L  
RT: 7.970 min Scan# 2063  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

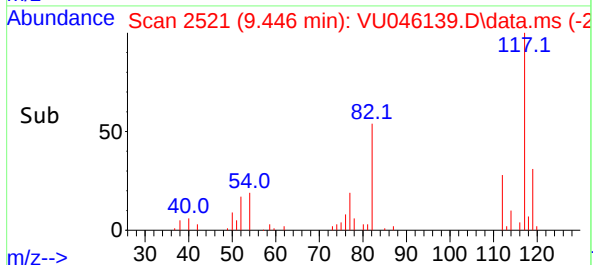
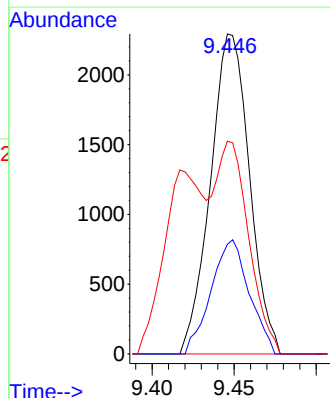
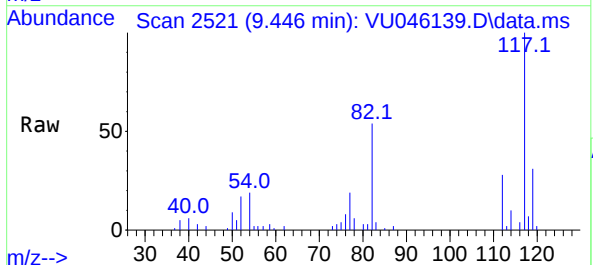
Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKS3

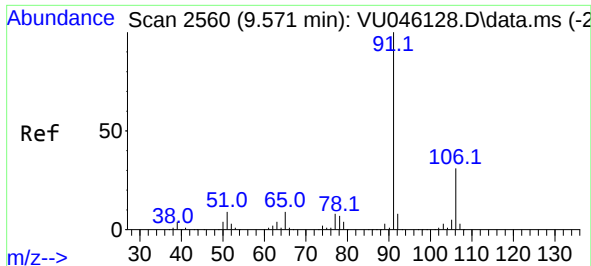
Tgt Ion: 91 Resp: 243354  
Ion Ratio Lower Upper  
91 100  
92 60.6 41.9 77.7



#51  
Chlorobenzene  
Concen: 0.791 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

Tgt Ion: 112 Resp: 3790  
Ion Ratio Lower Upper  
112 100  
114 34.2 22.2 41.2  
77 66.5 47.4 71.0

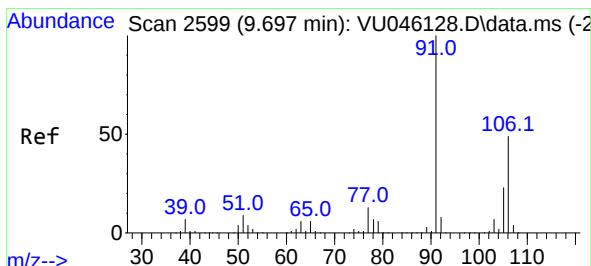
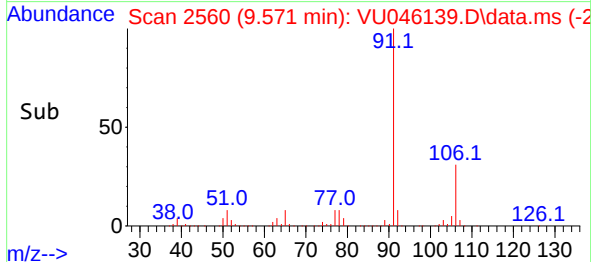
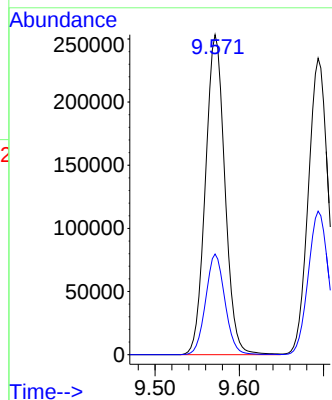
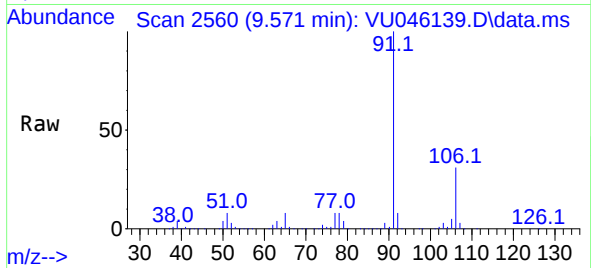




#52  
Ethylbenzene  
Concen: 51.068 ug/L  
RT: 9.571 min Scan# 2560  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

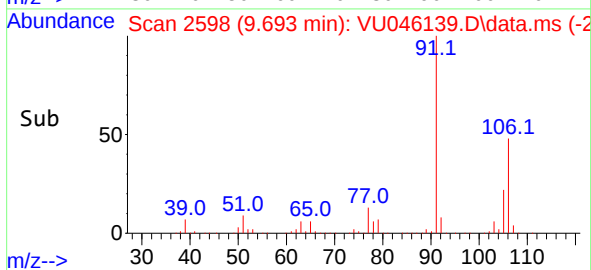
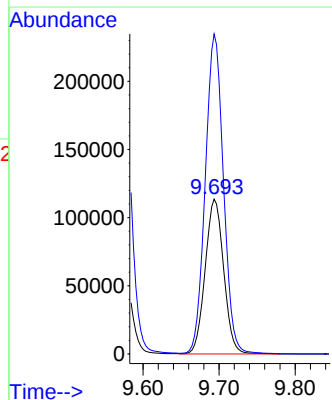
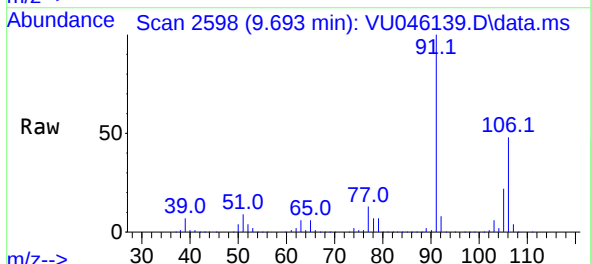
Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKS3

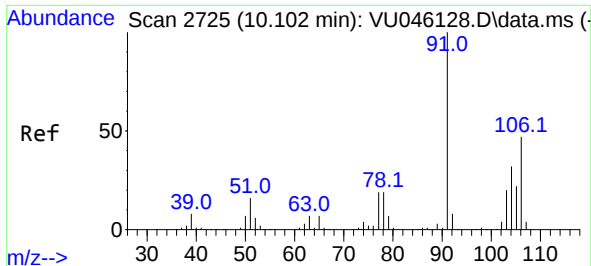
Tgt Ion: 91 Resp: 407143  
Ion Ratio Lower Upper  
91 100  
106 31.4 21.1 39.3



#53  
m,p-Xylene  
Concen: 61.764 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

Tgt Ion: 106 Resp: 192034  
Ion Ratio Lower Upper  
106 100  
91 206.5 144.3 268.1

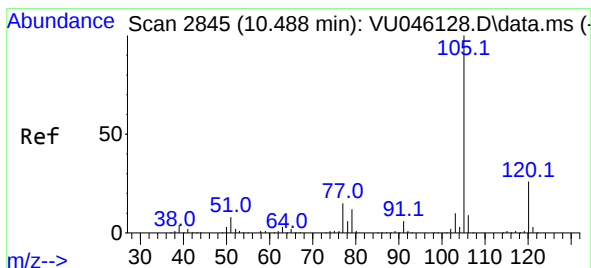
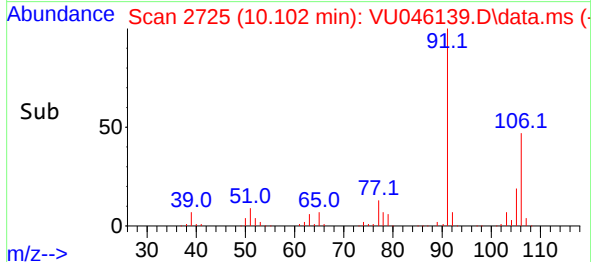
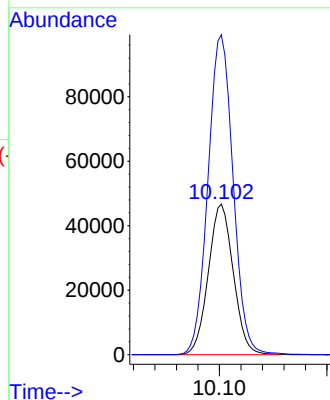
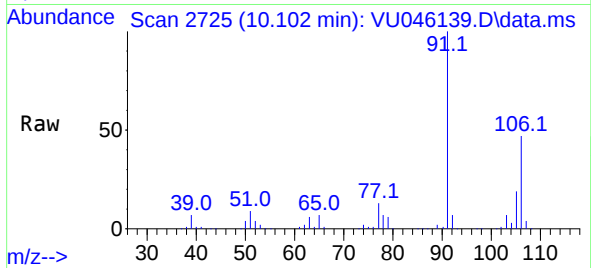




#54  
o-xylene  
Concen: 24.986 ug/L  
RT: 10.102 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

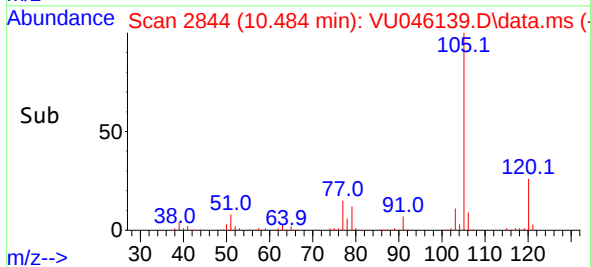
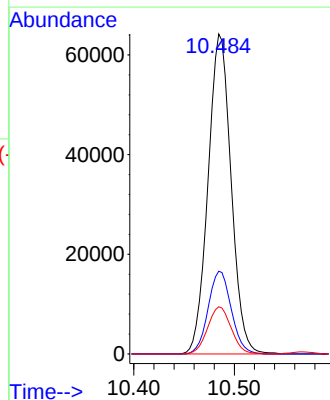
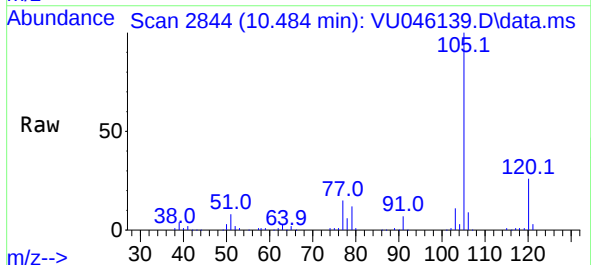
Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKS3

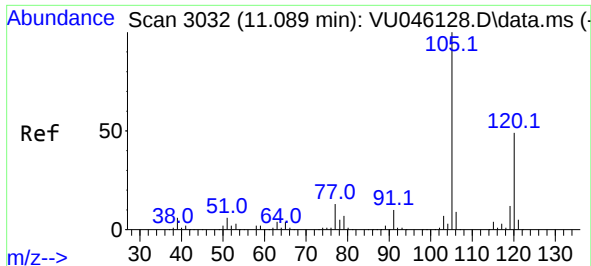
Tgt Ion:106 Resp: 75380  
Ion Ratio Lower Upper  
106 100  
91 212.4 154.2 286.4



#61  
Isopropylbenzene  
Concen: 12.617 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

Tgt Ion:105 Resp: 102371  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.7 31.1  
77 15.0 12.2 18.4

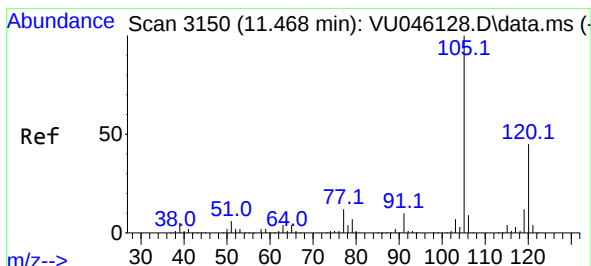
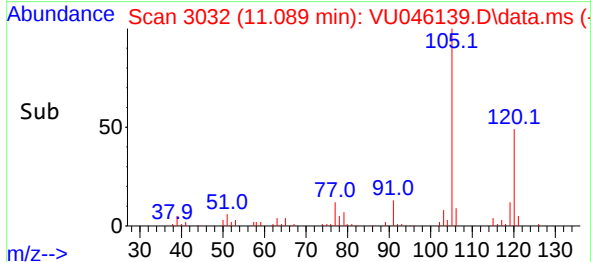
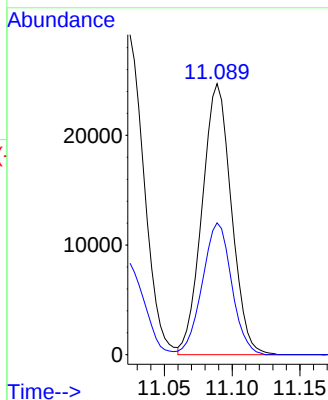
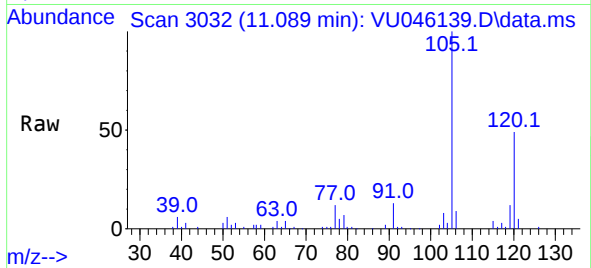




#62  
1,3,5-Trimethylbenzene  
Concen: 5.489 ug/L  
RT: 11.089 min Scan# 3032  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

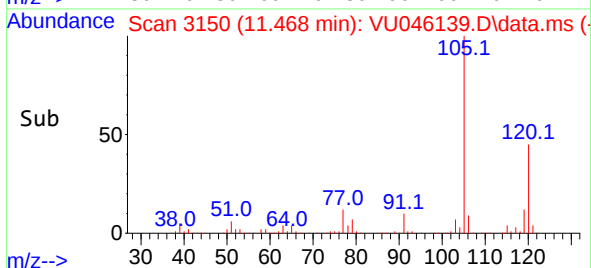
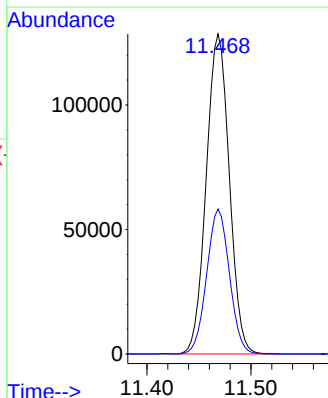
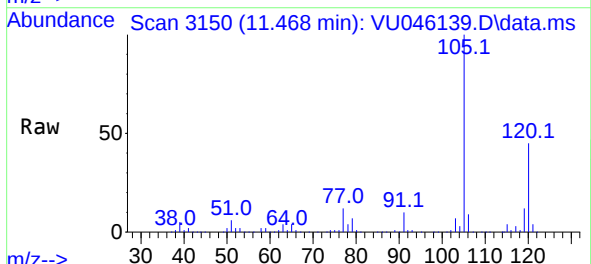
Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKS3

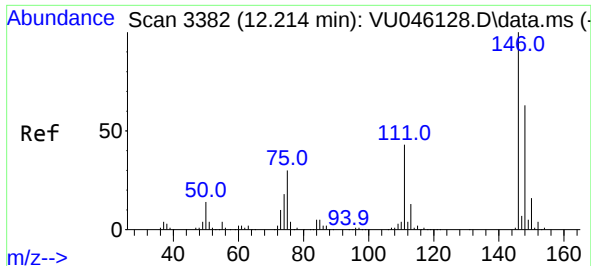
Tgt Ion:105 Resp: 37125  
Ion Ratio Lower Upper  
105 100  
120 48.7 37.8 56.6



#63  
1,2,4-Trimethylbenzene  
Concen: 29.282 ug/L  
RT: 11.468 min Scan# 3150  
Delta R.T. -0.003 min  
Lab File: VU046139.D  
Acq: 07 Dec 2021 14:40

Tgt Ion:105 Resp: 198137  
Ion Ratio Lower Upper  
105 100  
120 44.6 35.2 52.8





#67

1,2-Dichlorobenzene

Concen: 3.888 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. -0.003 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA\_U

ClientSampleId :

BGKS3

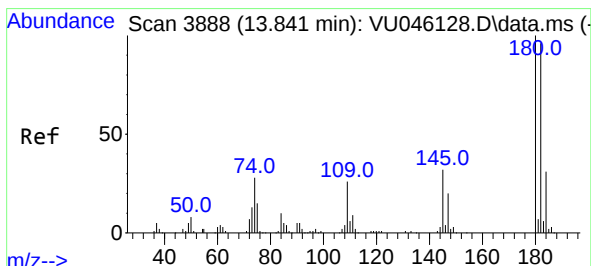
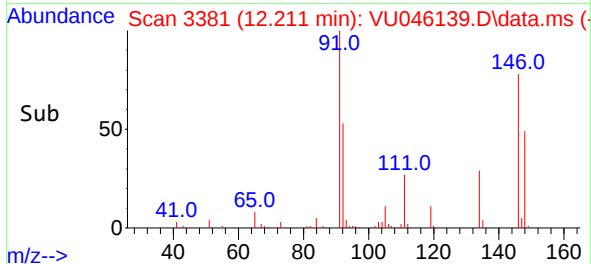
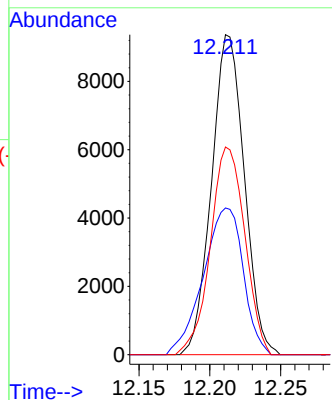
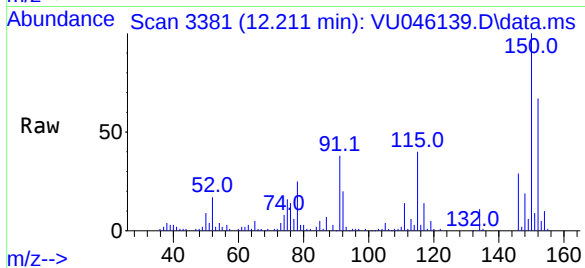
Tgt Ion:146 Resp: 15090

Ion Ratio Lower Upper

146 100

111 45.9 35.7 53.5

148 64.9 51.2 76.8



#70

1,2,4-trichlorobenzene

Concen: 2.851 ug/L

RT: 13.841 min Scan# 3888

Delta R.T. -0.000 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Tgt Ion:180 Resp: 7104

Ion Ratio Lower Upper

180 100

182 99.4 76.7 115.1

145 57.0 26.0 39.0#

