

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122822\  
 Data File : VU052591.D  
 Acq On : 28 Dec 2022 16:15  
 Operator : JC/MD  
 Sample : N6171-17DL 10X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GBQD3DL

Quant Time: Dec 29 00:27:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122022WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 29 00:24:48 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 182616   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 173124   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806 | 152   | 90544    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 53370    | 2.885    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 57.600%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 55798    | 3.497    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 70.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.568  | 65    | 27238    | 3.421    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 68.400%  |
| 20) 2-Butanone-d5             | 4.642  | 46    | 299251   | 52.160   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 104.320% |
| 24) Chloroform-d              | 5.057  | 84    | 130840   | 4.192    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 83.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 77522    | 4.282    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 85.600%  |
| 32) Benzene-d6                | 5.726  | 84    | 257120   | 4.332    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 86.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 94724    | 4.636    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 92.800%  |
| 41) Toluene-d8                | 7.896  | 98    | 201210   | 4.038    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 80.800%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 31365    | 4.483    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 89.600%  |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 207763   | 54.277   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 108.560% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 84011    | 4.843    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 96.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.188 | 152   | 90375    | 4.903    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 98.000%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
| 16) Methylene chloride        | 3.044  | 84    | 13563    | 0.702    | ug/L   | 94       |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96    | 19320    | 1.371    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96    | 7213     | 0.466    | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.768  | 62    | 4969     | 0.242    | ug/L # | 74       |
| 30) Cyclohexane               | 5.388  | 56    | 5177     | 0.220    | ug/L   | 94       |
| 33) Benzene                   | 5.771  | 78    | 565495   | 9.068    | ug/L   | 100      |
| 37) 1,2-Dichloropropane       | 6.687  | 63    | 9831     | 0.565    | ug/L # | 88       |
| 42) Toluene                   | 7.967  | 91    | 27099    | 0.453    | ug/L   | 100      |
| 48) 2-Hexanone                | 8.632  | 43    | 26333    | 2.747    | ug/L # | 76       |
| 52) Ethylbenzene              | 9.568  | 91    | 24519    | 0.396    | ug/L   | 99       |
| 53) m,p-Xylene                | 9.687  | 106   | 9544     | 0.418    | ug/L   | 95       |
| 54) o-Xylene                  | 10.095 | 106   | 103687   | 4.741    | ug/L   | 97       |
| 55) Styrene                   | 10.092 | 104   | 6709     | 0.176    | ug/L # | 1        |
| 60) Isopropylbenzene          | 10.478 | 105   | 34247    | 0.584    | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.082 | 105   | 12390    | 0.256    | ug/L   | 94       |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105   | 26413    | 0.542    | ug/L   | 98       |
| 71) Naphthalene               | 14.082 | 128   | 57877    | 1.585    | ug/L # | 86       |
| -----                         |        |       |          |          |        |          |

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Sample : N6171-17DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GBQD3DL

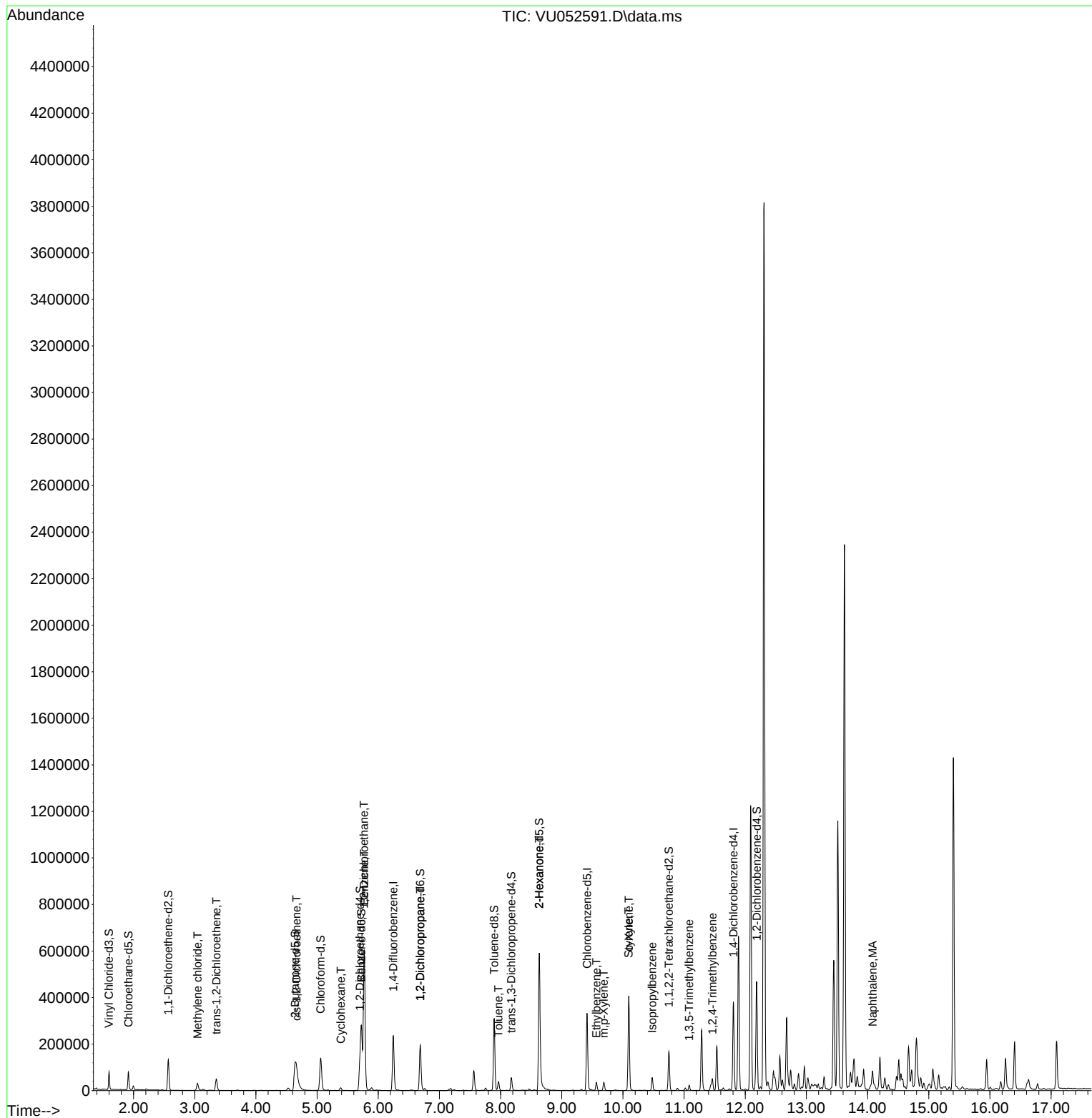
Quant Time: Dec 29 00:27:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122022WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Dec 29 00:24:48 2022  
Response via : Initial Calibration

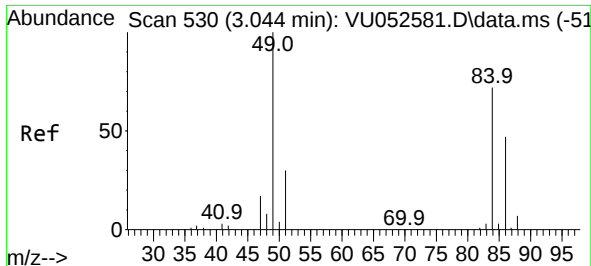
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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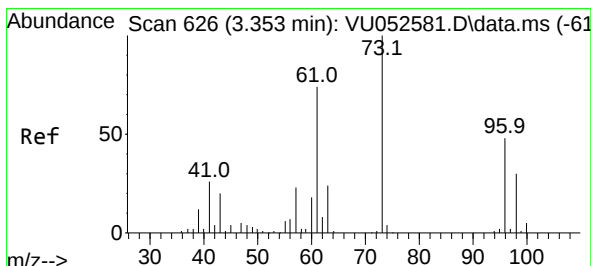
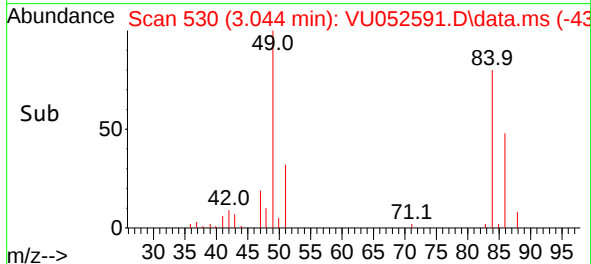
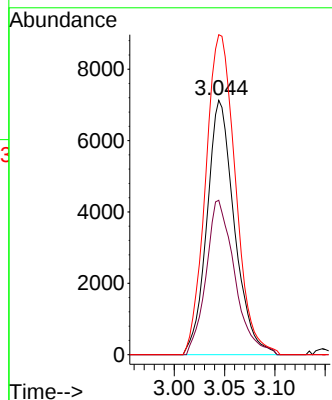
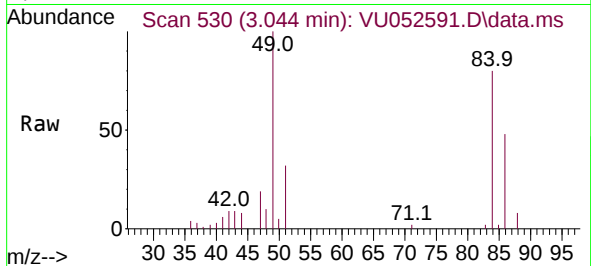




#16  
Methylene chloride  
Concen: 0.702 ug/L  
RT: 3.044 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

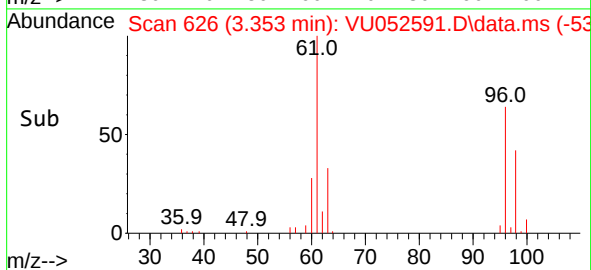
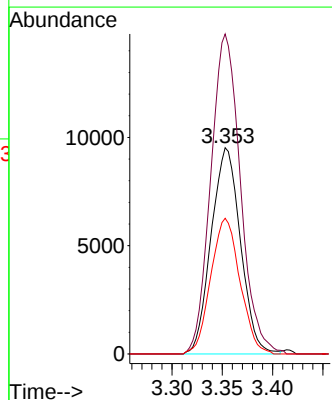
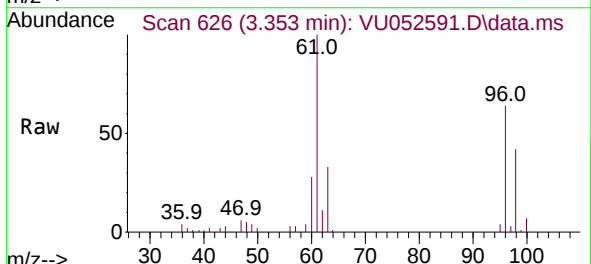
Instrument :  
MSVOA\_U  
ClientSampleId :  
GBQD3DL

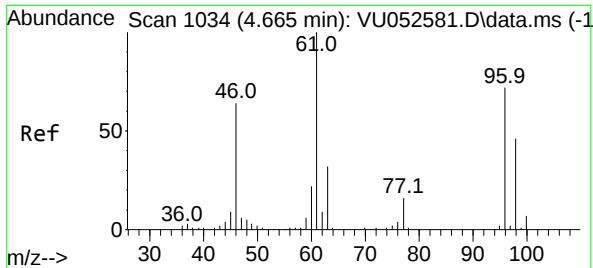
Tgt Ion: 84 Resp: 13563  
Ion Ratio Lower Upper  
84 100  
86 60.7 44.7 83.1  
49 125.8 93.3 173.3



#18  
trans-1,2-Dichloroethene  
Concen: 1.371 ug/L  
RT: 3.353 min Scan# 626  
Delta R.T. 0.000 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

Tgt Ion: 96 Resp: 19320  
Ion Ratio Lower Upper  
96 100  
61 155.2 108.3 201.1  
98 65.8 44.0 81.6





#22

cis-1,2-Dichloroethene

Concen: 0.466 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VU052591.D

Acq: 28 Dec 2022 16:15

Instrument :

MSVOA\_U

ClientSampleId :

GBQD3DL

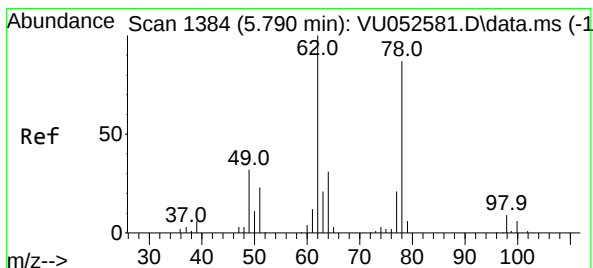
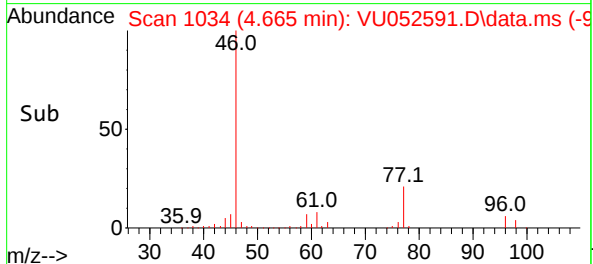
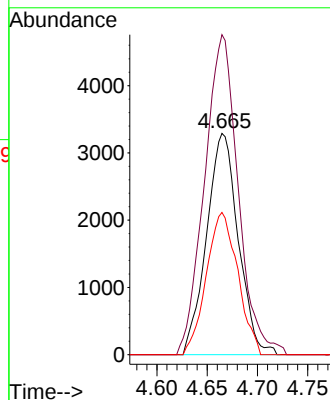
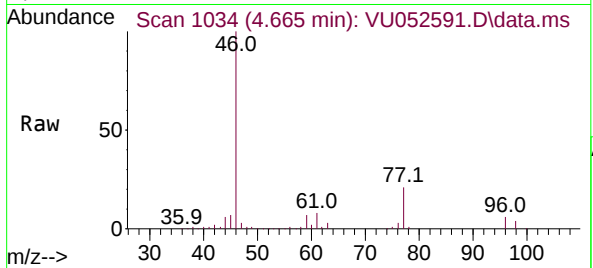
Tgt Ion: 96 Resp: 7213

Ion Ratio Lower Upper

96 100

61 144.6 96.9 180.1

98 64.3 44.7 83.1



#27

1,2-Dichloroethane

Concen: 0.242 ug/L

RT: 5.768 min Scan# 1377

Delta R.T. -0.022 min

Lab File: VU052591.D

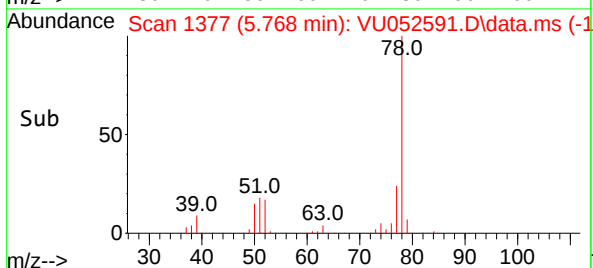
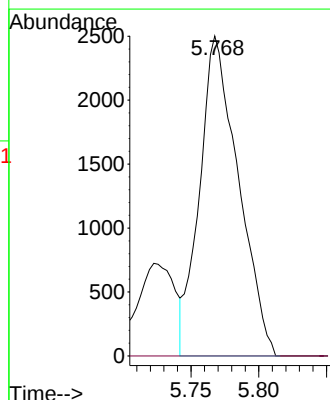
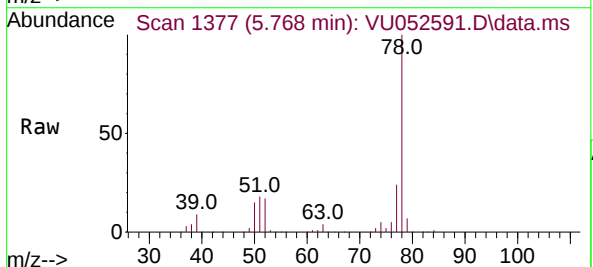
Acq: 28 Dec 2022 16:15

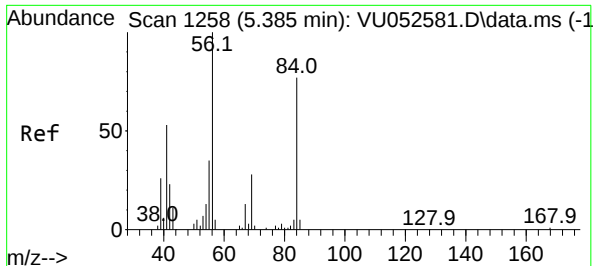
Tgt Ion: 62 Resp: 4969

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.2#





#30

Cyclohexane

Concen: 0.220 ug/L

RT: 5.388 min Scan# 1258

Delta R.T. 0.003 min

Lab File: VU052591.D

Acq: 28 Dec 2022 16:15

Instrument :

MSVOA\_U

ClientSampleId :

GBQD3DL

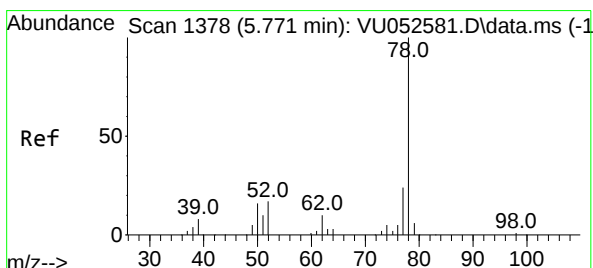
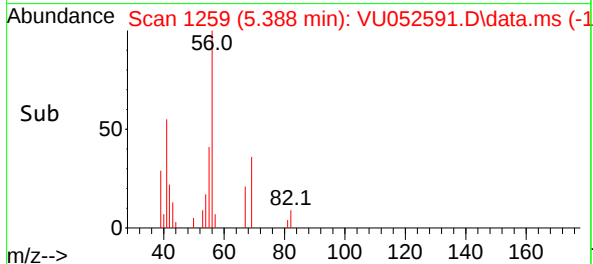
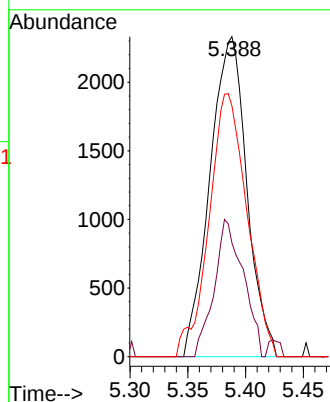
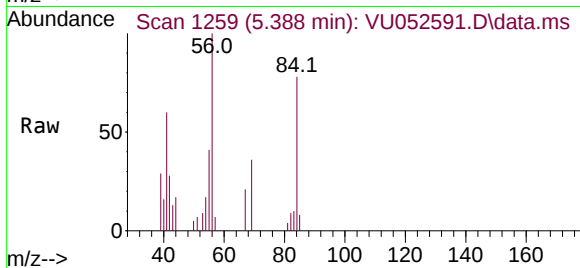
Tgt Ion: 56 Resp: 5177

Ion Ratio Lower Upper

56 100

69 33.8 23.0 34.6

84 84.5 64.4 96.6



#33

Benzene

Concen: 9.068 ug/L

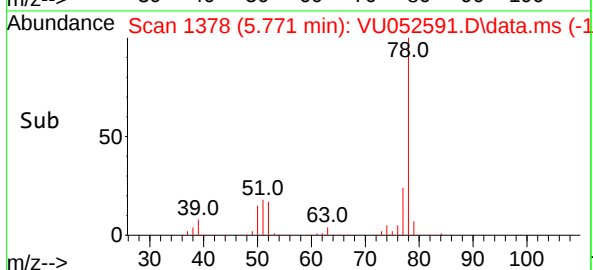
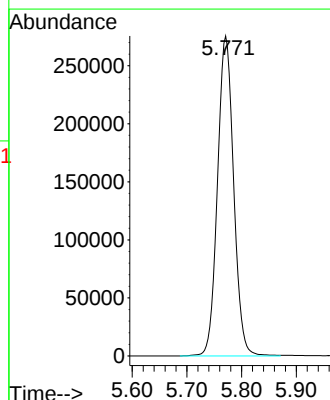
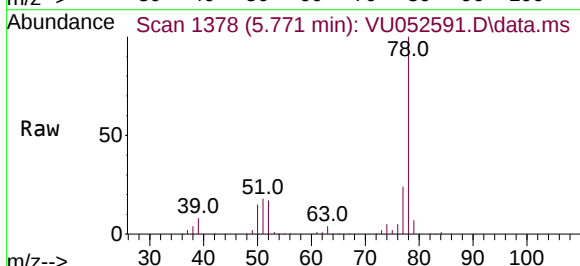
RT: 5.771 min Scan# 1378

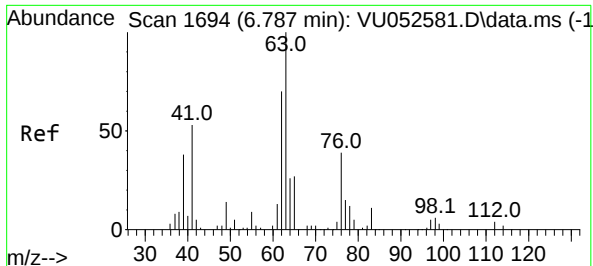
Delta R.T. 0.000 min

Lab File: VU052591.D

Acq: 28 Dec 2022 16:15

Tgt Ion: 78 Resp: 565495





#37

1,2-Dichloropropane

Concen: 0.565 ug/L

RT: 6.687 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU052591.D

Acq: 28 Dec 2022 16:15

Instrument :

MSVOA\_U

ClientSampleId :

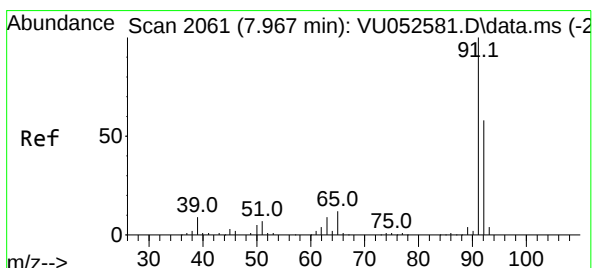
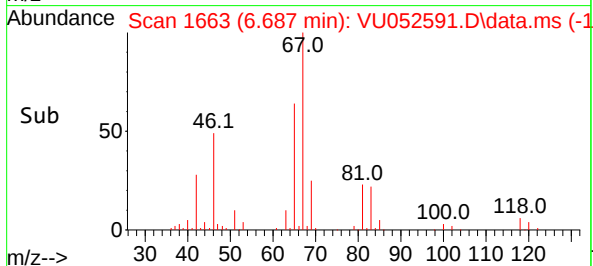
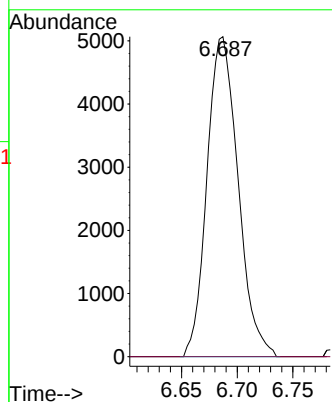
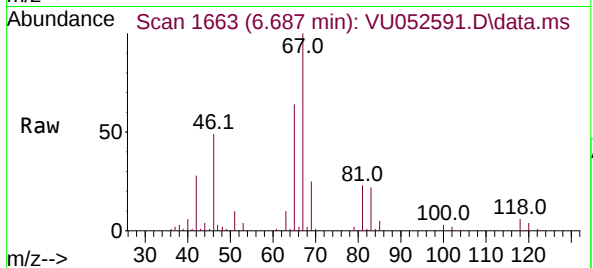
GBQD3DL

Tgt Ion: 63 Resp: 9831

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.6#



#42

Toluene

Concen: 0.453 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU052591.D

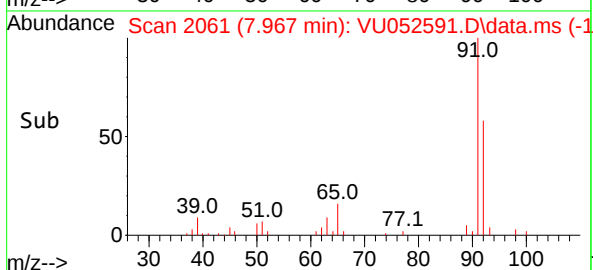
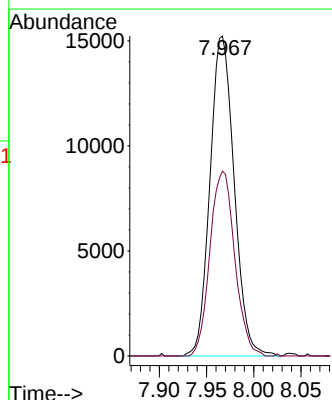
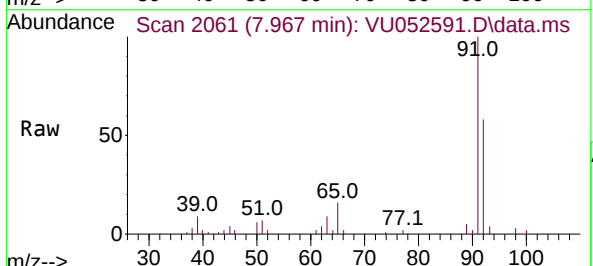
Acq: 28 Dec 2022 16:15

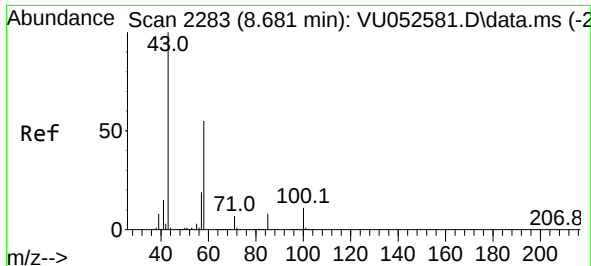
Tgt Ion: 91 Resp: 27099

Ion Ratio Lower Upper

91 100

92 57.8 40.6 75.4

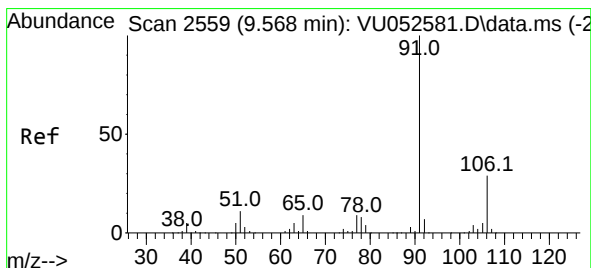
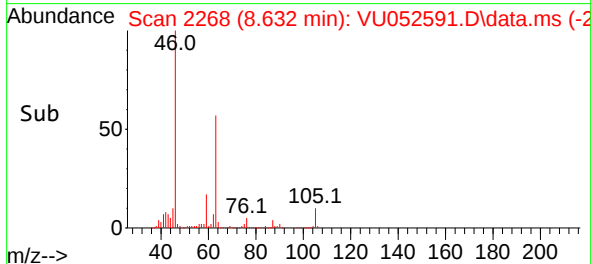
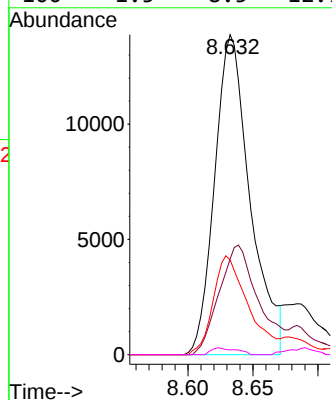
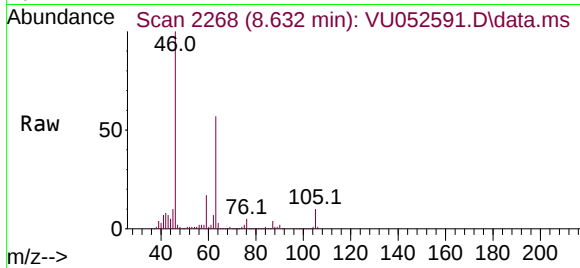




#48  
2-Hexanone  
Concen: 2.747 ug/L  
RT: 8.632 min Scan# 21  
Delta R.T. -0.048 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

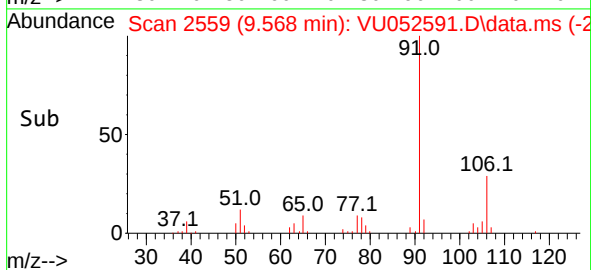
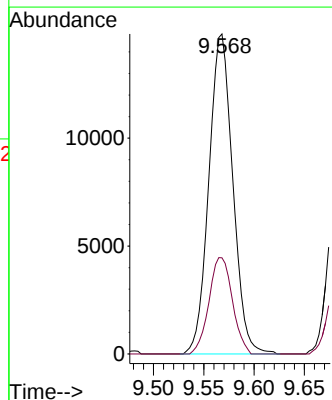
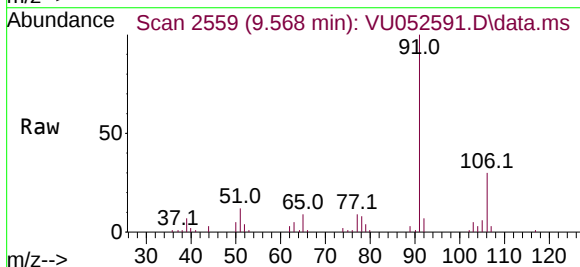
Instrument :  
MSVOA\_U  
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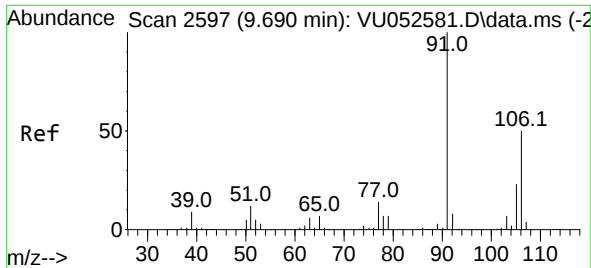
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 26333 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 38.9     | 44.1 66.1#  |
| 57 30.8     | 14.6 21.8#  |
| 100 1.5     | 8.5 12.7#   |



#52  
Ethylbenzene  
Concen: 0.396 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

|             |             |
|-------------|-------------|
| Tgt Ion: 91 | Resp: 24519 |
| Ion Ratio   | Lower Upper |
| 91 100      |             |
| 106 30.1    | 20.9 38.7   |

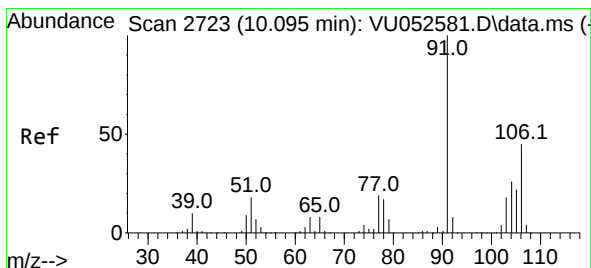
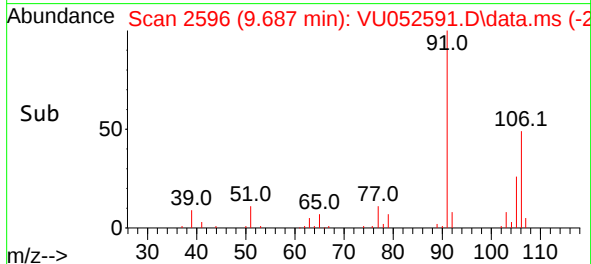
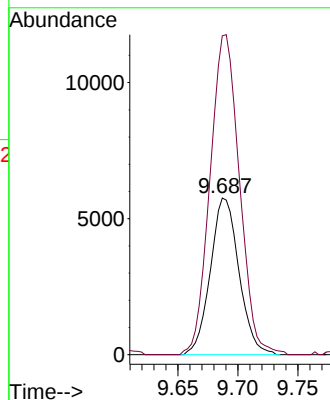
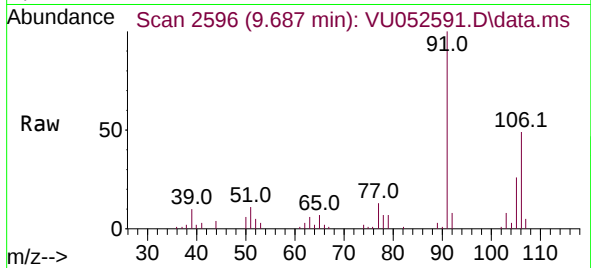




#53  
m,p-Xylene  
Concen: 0.418 ug/L  
RT: 9.687 min Scan# 2596  
Delta R.T. -0.003 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

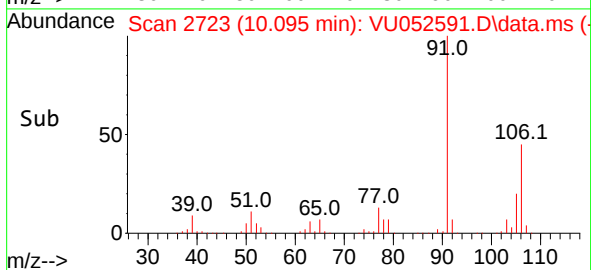
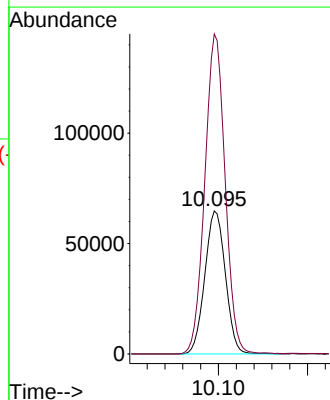
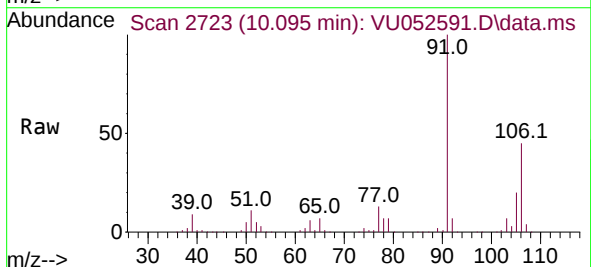
Instrument :  
MSVOA\_U  
ClientSampleId :  
GBQD3DL

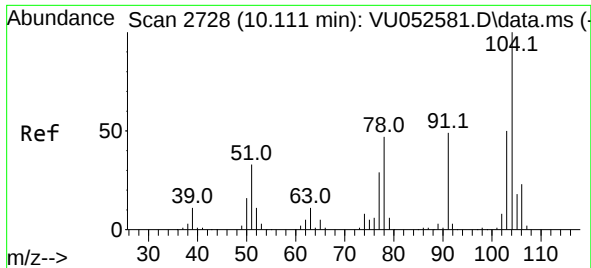
Tgt Ion:106 Resp: 9544  
Ion Ratio Lower Upper  
106 100  
91 203.6 148.2 275.2



#54  
o-Xylene  
Concen: 4.741 ug/L  
RT: 10.095 min Scan# 2723  
Delta R.T. 0.000 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

Tgt Ion:106 Resp: 103687  
Ion Ratio Lower Upper  
106 100  
91 223.7 153.2 284.4

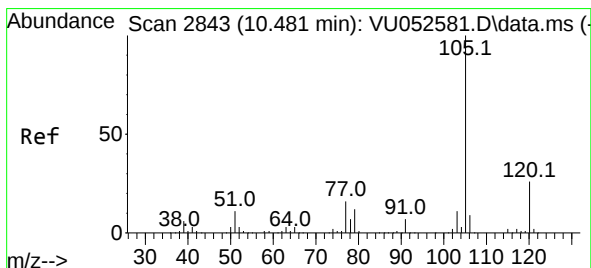
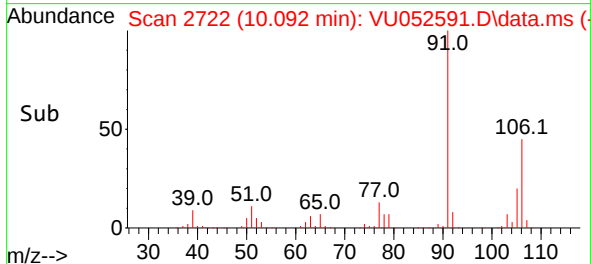
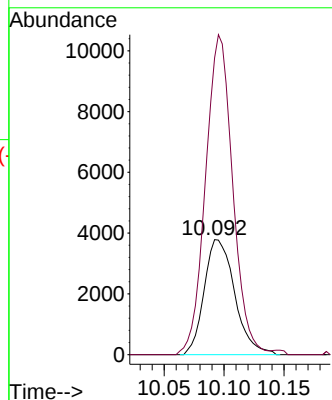
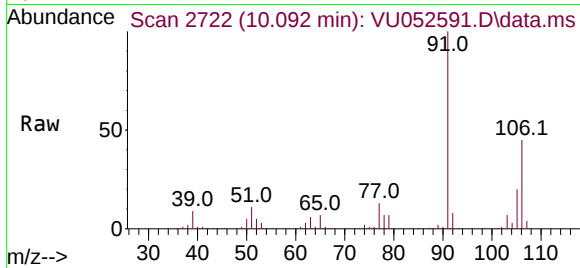




#55  
Styrene  
Concen: 0.176 ug/L  
RT: 10.092 min Scan# 21  
Delta R.T. -0.019 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

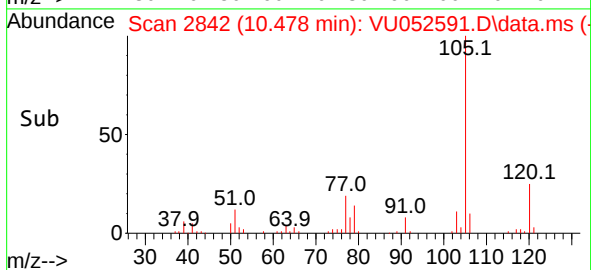
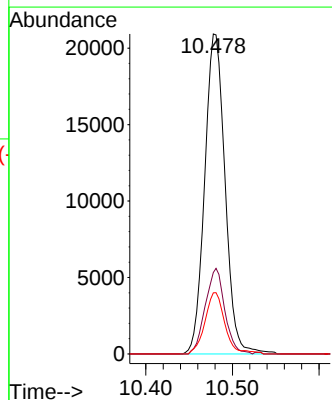
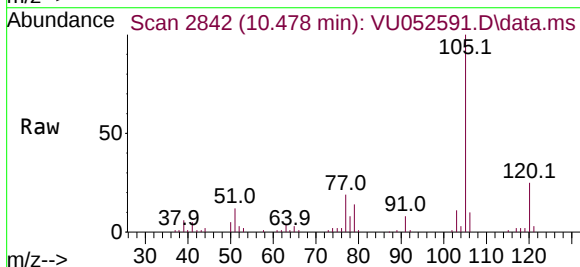
Instrument :  
MSVOA\_U  
ClientSampleId :  
GBQD3DL

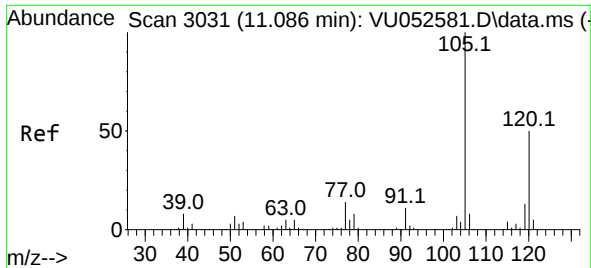
Tgt Ion:104 Resp: 6709  
Ion Ratio Lower Upper  
104 100  
78 258.0 33.4 62.0#



#60  
Isopropylbenzene  
Concen: 0.584 ug/L  
RT: 10.478 min Scan# 2842  
Delta R.T. -0.003 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

Tgt Ion:105 Resp: 34247  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.6 31.0  
77 18.8 13.8 20.8

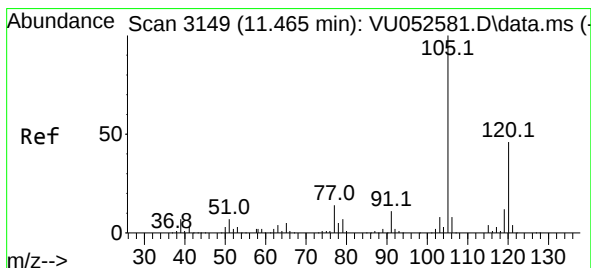
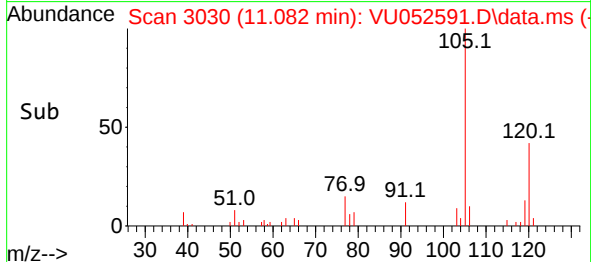
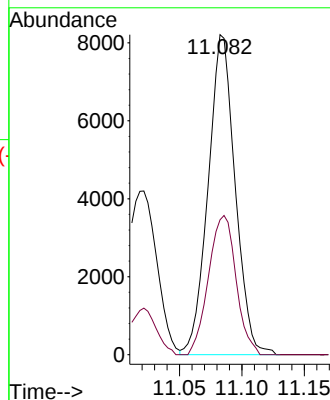
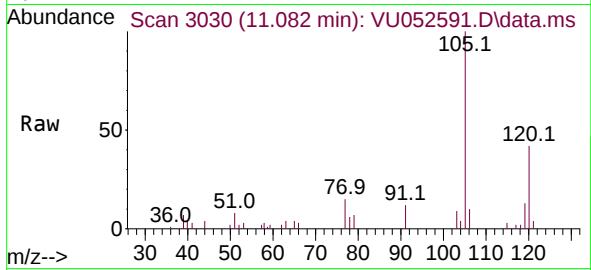




#62  
1,3,5-Trimethylbenzene  
Concen: 0.256 ug/L  
RT: 11.082 min Scan# 3031  
Delta R.T. -0.003 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

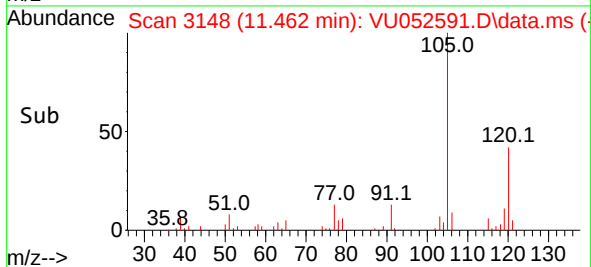
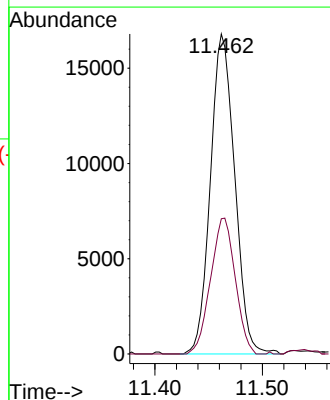
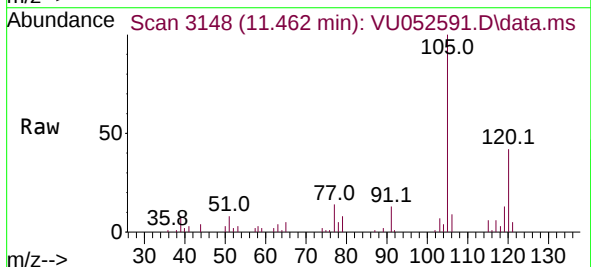
Instrument :  
MSVOA\_U  
ClientSampleId :  
GBQD3DL

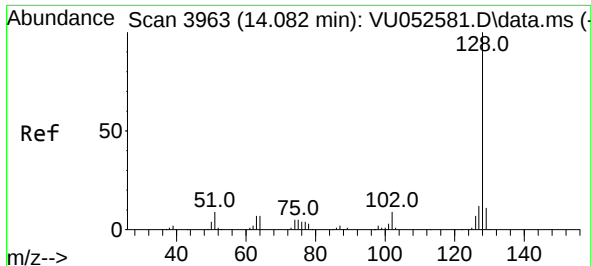
Tgt Ion:105 Resp: 12390  
Ion Ratio Lower Upper  
105 100  
120 44.3 38.6 57.8



#63  
1,2,4-Trimethylbenzene  
Concen: 0.542 ug/L  
RT: 11.462 min Scan# 3148  
Delta R.T. -0.003 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

Tgt Ion:105 Resp: 26413  
Ion Ratio Lower Upper  
105 100  
120 43.0 35.6 53.4





#71  
Naphthalene  
Concen: 1.585 ug/L  
RT: 14.082 min Scan# 3963  
Delta R.T. 0.000 min  
Lab File: VU052591.D  
Acq: 28 Dec 2022 16:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
GBQD3DL

Tgt Ion:128 Resp: 57877  
Ion Ratio Lower Upper  
128 100  
129 0.0 8.7 13.1#  
127 12.8 10.6 16.0

