

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101022\  
 Data File : VU051343.D  
 Acq On : 10 Oct 2022 22:23  
 Operator : JC/MD  
 Sample : N5013-08DL2 50X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 11 05:56:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR100722WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Oct 11 02:38:56 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 181631   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417  | 117   | 197529   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 85474    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 53708    | 3.666    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 73.400%  |
| 7) Chloroethane-d5            | 1.912  | 69    | 56517    | 4.490    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 89.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.565  | 65    | 22889    | 3.952    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 79.000%  |
| 20) 2-Butanone-d5             | 4.626  | 46    | 181332   | 56.215   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 112.420% |
| 24) Chloroform-d              | 5.063  | 84    | 139429   | 5.105    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 102.000% |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 76064    | 5.400    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 108.000% |
| 32) Benzene-d6                | 5.726  | 84    | 246051   | 4.528    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.690  | 67    | 91418    | 4.954    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 99.000%  |
| 41) Toluene-d8                | 7.896  | 98    | 184151   | 3.788    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 75.800%  |
| 43) trans-1,3-Dichloroprop... | 8.179  | 79    | 29103    | 4.800    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 96.000%  |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 109820   | 53.742   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 107.480% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.754 | 84    | 77009    | 5.224    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 104.400% |
| 66) 1,2-Dichlorobenzene-d4    | 12.192 | 152   | 75949    | 5.112    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 102.200% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.601  | 62    | 4951     | 0.243    | ug/L # | 80       |
| 8) Chloroethane               | 1.932  | 64    | 6406     | 0.492    | ug/L   | 89       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.565  | 101   | 739      | 0.052    | ug/L # | 26       |
| 16) Methylene chloride        | 3.041  | 84    | 9328     | 0.477    | ug/L   | 89       |
| 22) cis-1,2-Dichloroethene    | 4.668  | 96    | 22708    | 1.471    | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.777  | 62    | 4991     | 0.277    | ug/L # | 74       |
| 33) Benzene                   | 5.774  | 78    | 621847   | 9.430    | ug/L   | 100      |
| 37) 1,2-Dichloropropane       | 6.690  | 63    | 9436     | 0.522    | ug/L # | 88       |
| 39) cis-1,3-Dichloropropene   | 7.562  | 75    | 2036     | 0.094    | ug/L # | 73       |
| 42) Toluene                   | 7.970  | 91    | 894636   | 12.781   | ug/L   | 100      |
| 51) Chlorobenzene             | 9.446  | 112   | 84889    | 2.030    | ug/L   | 98       |
| 52) Ethylbenzene              | 9.568  | 91    | 96944    | 1.541    | ug/L   | 95       |
| 53) m,p-Xylene                | 9.690  | 106   | 97635    | 4.002    | ug/L   | 98       |
| 54) o-Xylene                  | 10.099 | 106   | 26894    | 1.165    | ug/L   | 94       |
| 55) Styrene                   | 10.102 | 104   | 2519     | 0.063    | ug/L # | 1        |
| 60) Isopropylbenzene          | 10.484 | 105   | 18402    | 0.340    | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105   | 4508     | 0.314    | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105   | 16913    | 0.416    | ug/L   | 95       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146   | 3580     | 0.136    | ug/L   | 95       |

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ALS Vial : 32 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Oct 11 05:56:10 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR100722WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Oct 11 02:38:56 2022  
Response via : Initial Calibration

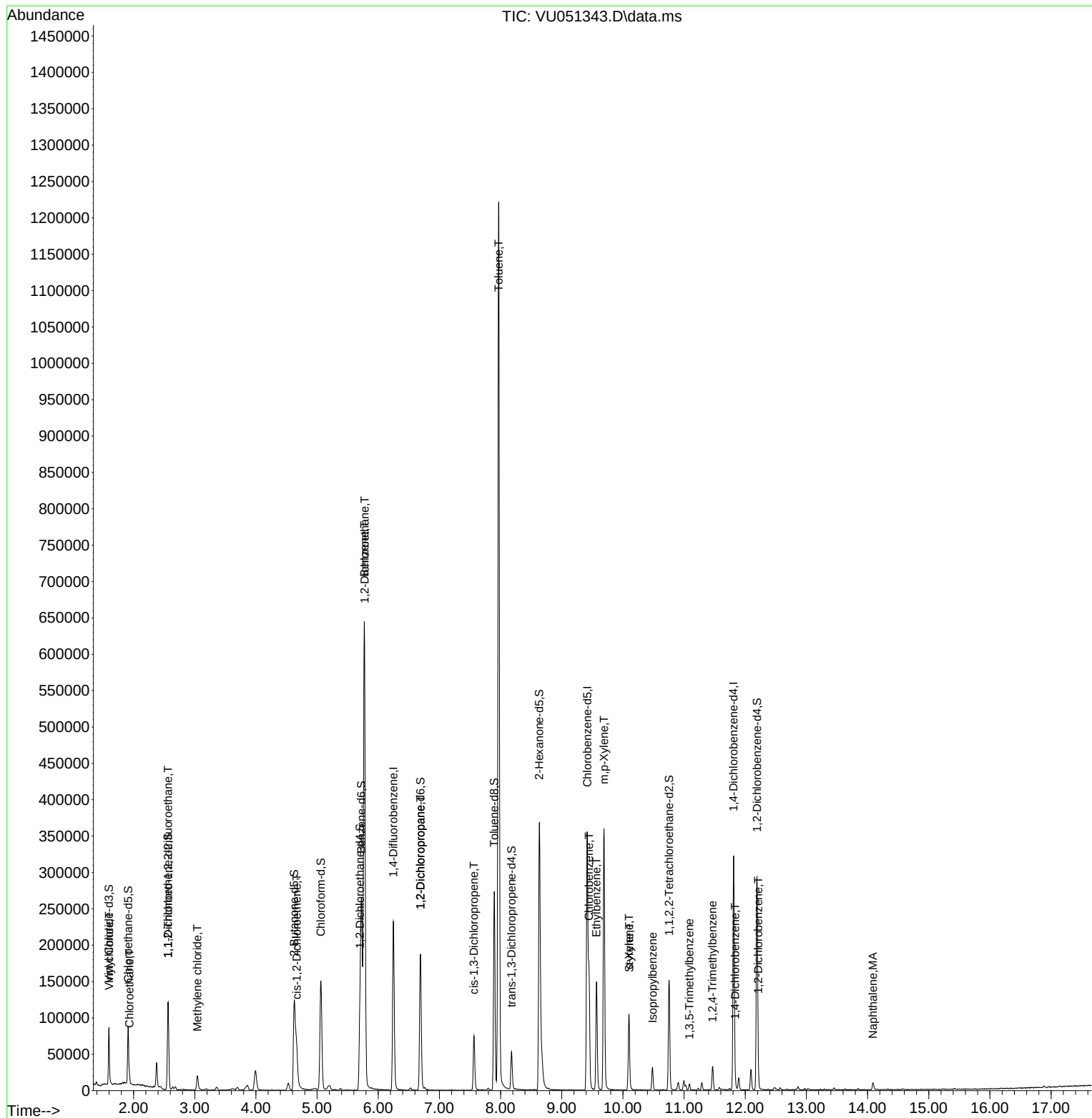
| Compound                | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|--------|------|----------|-------|-------|----------|
| 67) 1,2-Dichlorobenzene | 12.211 | 146  | 4537     | 0.174 | ug/L  | 99       |
| 71) Naphthalene         | 14.086 | 128  | 9749     | 0.400 | ug/L  | 99       |

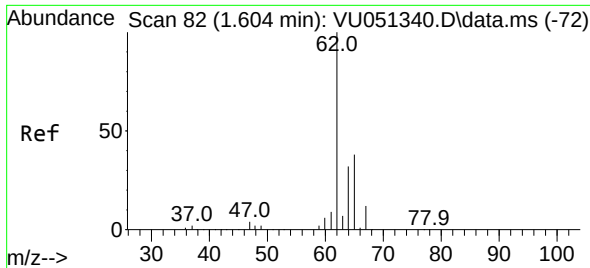
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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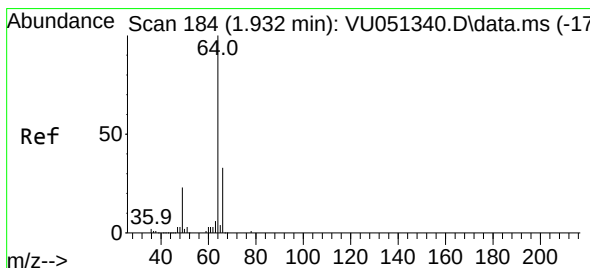
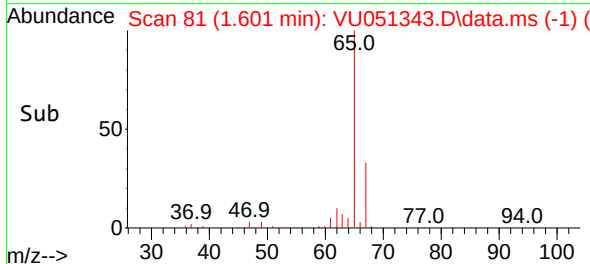
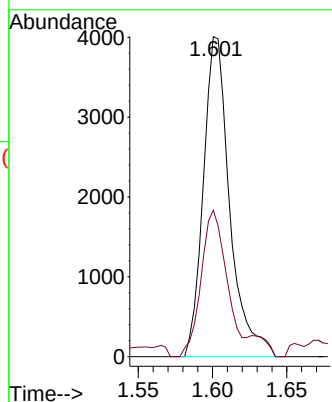
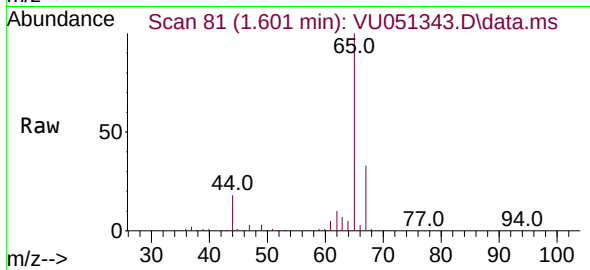




#5  
 Vinyl chloride  
 Concen: 0.243 ug/L  
 RT: 1.601 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VU051343.D  
 Acq: 10 Oct 2022 22:23

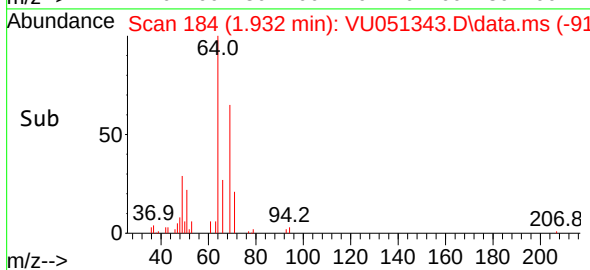
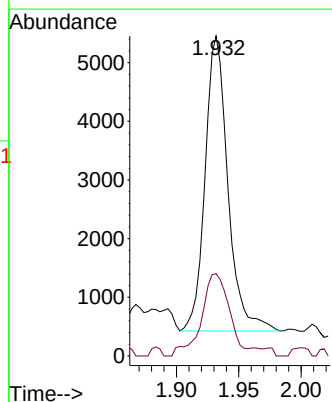
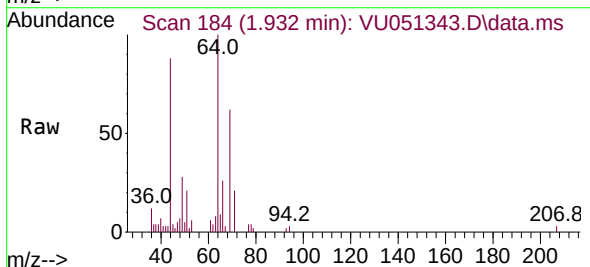
Instrument :  
 MSVOA\_U  
 ClientSampleId :

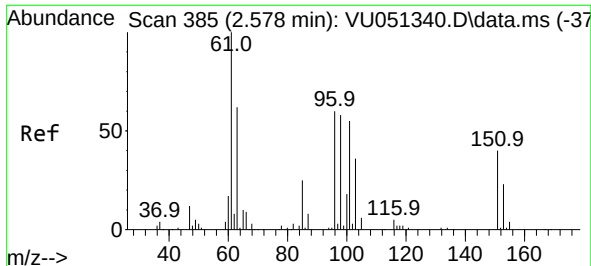
Tgt Ion: 62 Resp: 4951  
 Ion Ratio Lower Upper  
 62 100  
 64 45.8 24.0 44.6#



#8  
 Chloroethane  
 Concen: 0.492 ug/L  
 RT: 1.932 min Scan# 184  
 Delta R.T. 0.000 min  
 Lab File: VU051343.D  
 Acq: 10 Oct 2022 22:23

Tgt Ion: 64 Resp: 6406  
 Ion Ratio Lower Upper  
 64 100  
 66 25.7 22.3 41.3

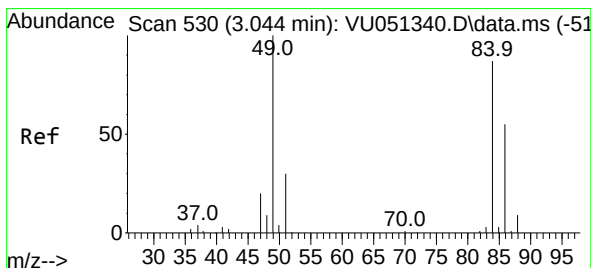
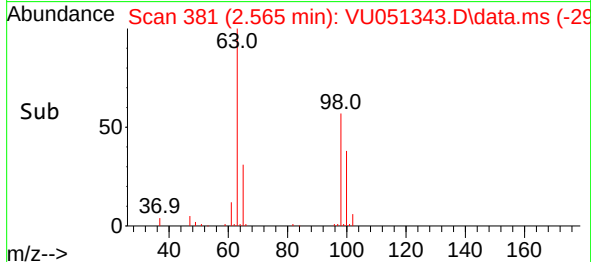
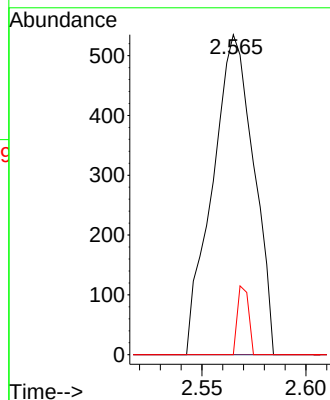
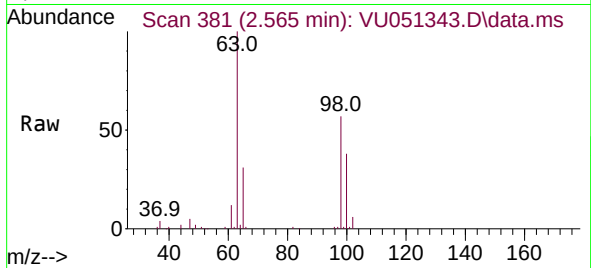




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.052 ug/L  
RT: 2.565 min Scan# 31  
Delta R.T. -0.013 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

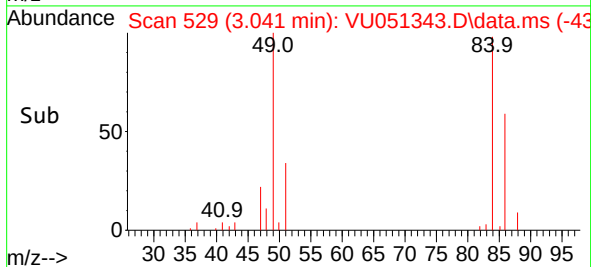
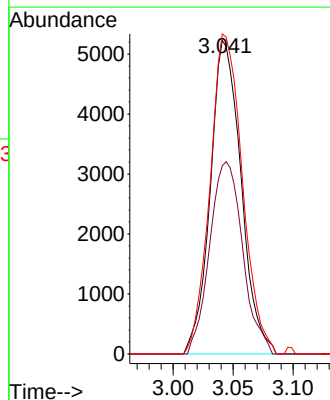
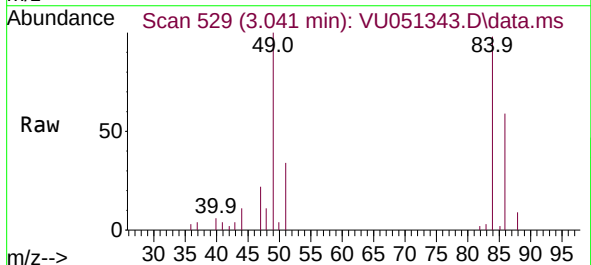
Instrument :  
MSVOA\_U  
ClientSampleId :

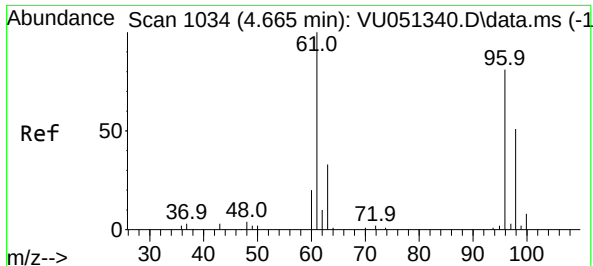
Tgt Ion:101 Resp: 739  
Ion Ratio Lower Upper  
101 100  
85 0.0 34.6 51.8#  
151 5.7 56.5 84.7#



#16  
Methylene chloride  
Concen: 0.477 ug/L  
RT: 3.041 min Scan# 529  
Delta R.T. -0.003 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

Tgt Ion: 84 Resp: 9328  
Ion Ratio Lower Upper  
84 100  
86 60.1 46.5 86.3  
49 102.1 81.3 151.1





#22

cis-1,2-Dichloroethene

Concen: 1.471 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. 0.003 min

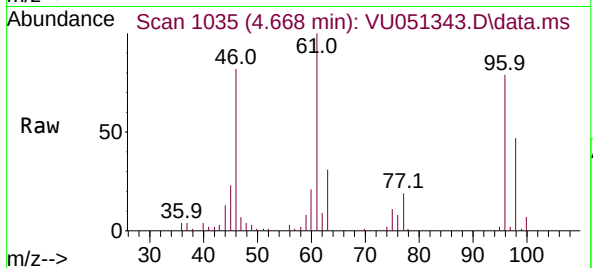
Lab File: VU051343.D

Acq: 10 Oct 2022 22:23

Instrument :

MSVOA\_U

ClientSampleId :



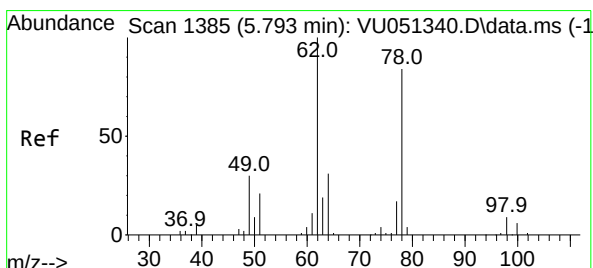
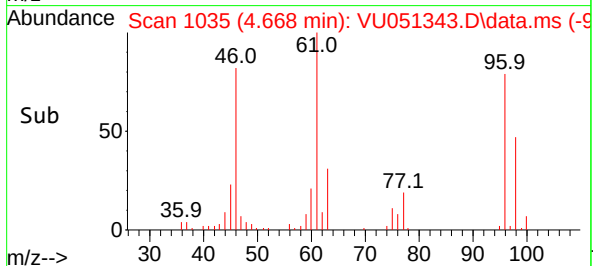
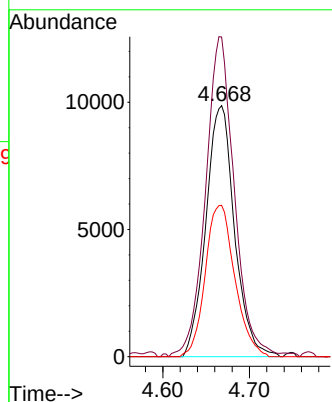
Tgt Ion: 96 Resp: 22708

Ion Ratio Lower Upper

96 100

61 127.3 90.6 168.2

98 60.3 47.5 88.3



#27

1,2-Dichloroethane

Concen: 0.277 ug/L

RT: 5.777 min Scan# 1380

Delta R.T. -0.016 min

Lab File: VU051343.D

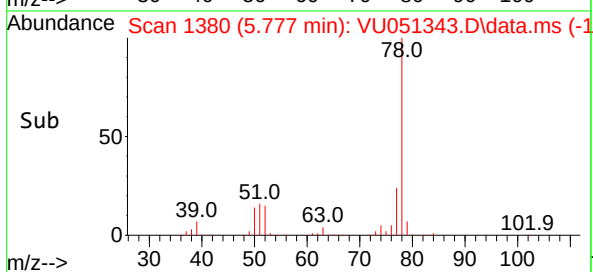
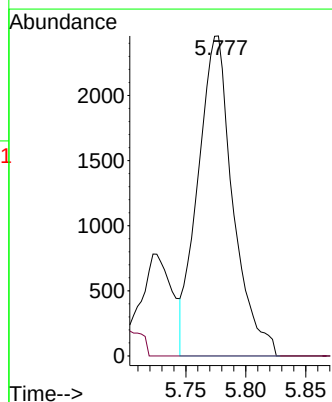
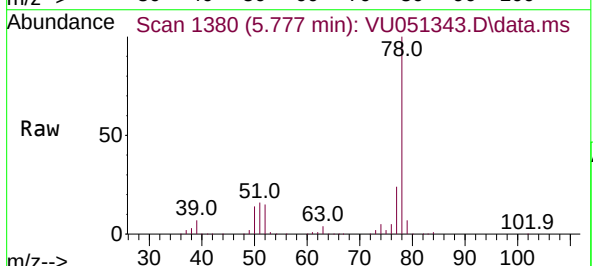
Acq: 10 Oct 2022 22:23

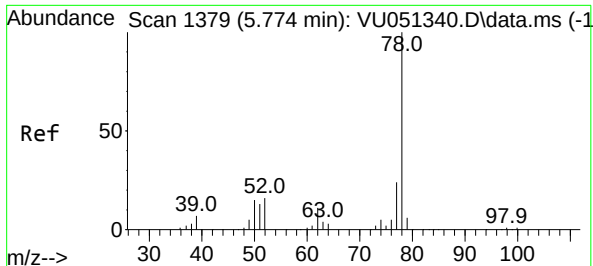
Tgt Ion: 62 Resp: 4991

Ion Ratio Lower Upper

62 100

98 0.0 7.7 11.5#

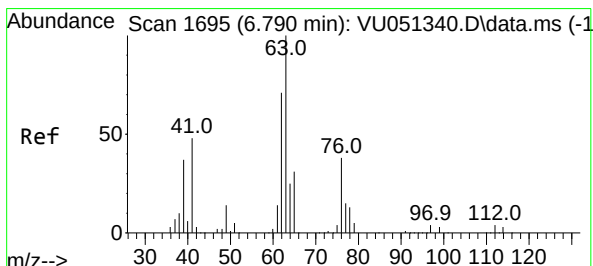
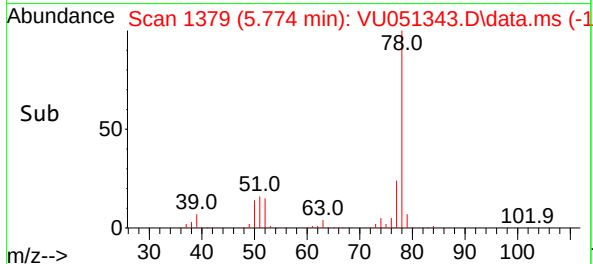
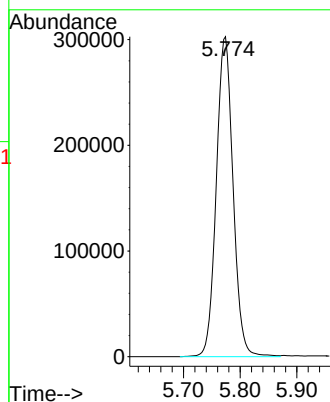
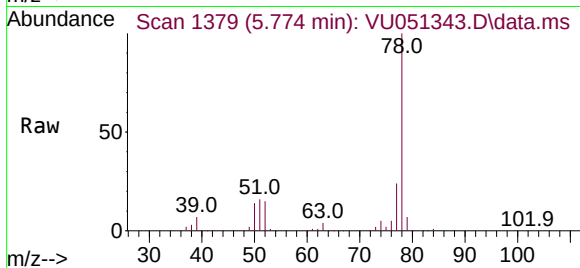




#33  
Benzene  
Concen: 9.430 ug/L  
RT: 5.774 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

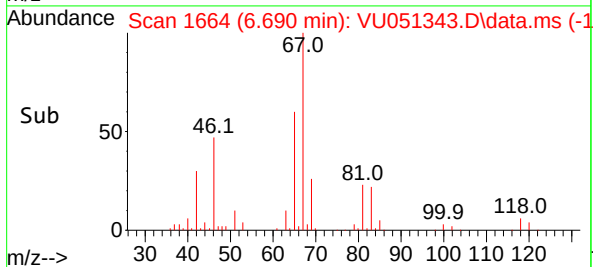
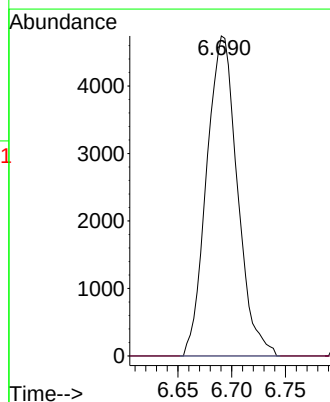
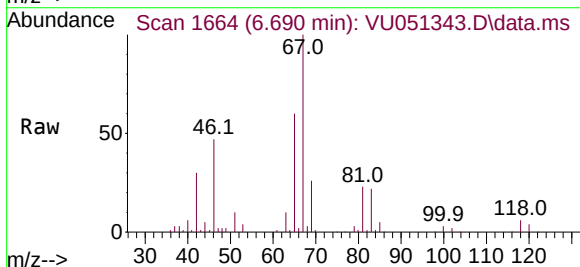
Instrument :  
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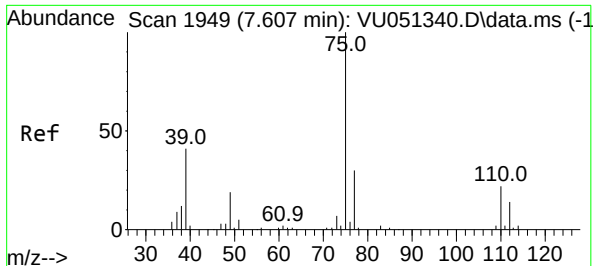
Tgt Ion: 78 Resp: 621847



#37  
1,2-Dichloropropane  
Concen: 0.522 ug/L  
RT: 6.690 min Scan# 1664  
Delta R.T. -0.100 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

Tgt Ion: 63 Resp: 9436  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.094 ug/L

RT: 7.562 min Scan# 1949

Delta R.T. -0.045 min

Lab File: VU051343.D

Acq: 10 Oct 2022 22:23

Instrument :

MSVOA\_U

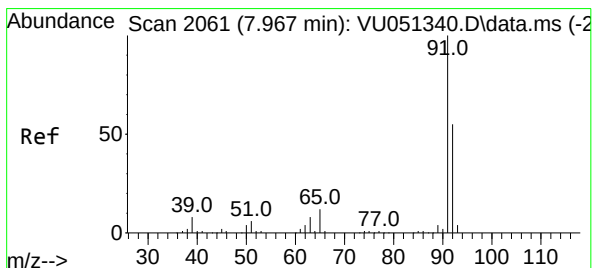
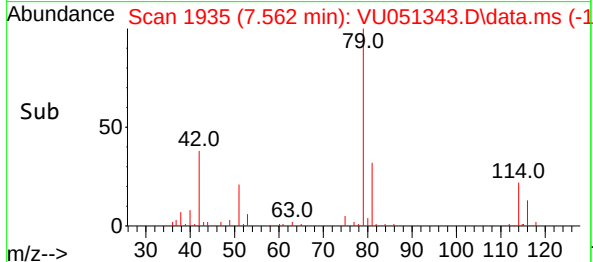
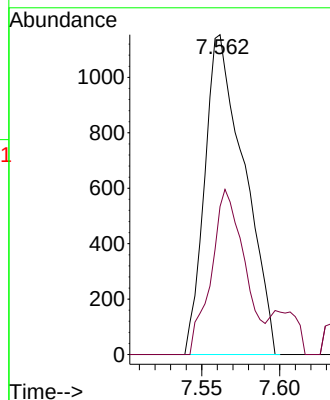
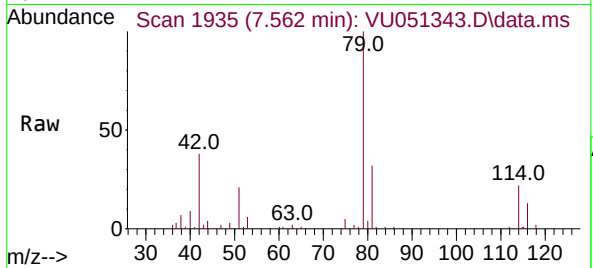
ClientSampleId :

Tgt Ion: 75 Resp: 2036

Ion Ratio Lower Upper

75 100

77 46.3 22.0 41.0#



#42

Toluene

Concen: 12.781 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.003 min

Lab File: VU051343.D

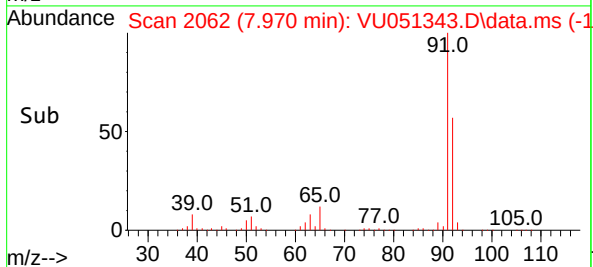
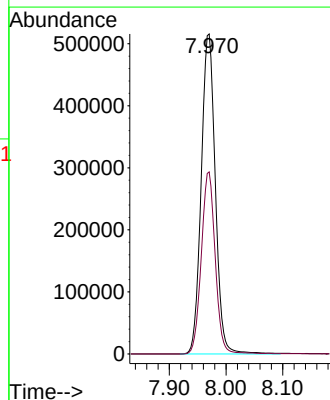
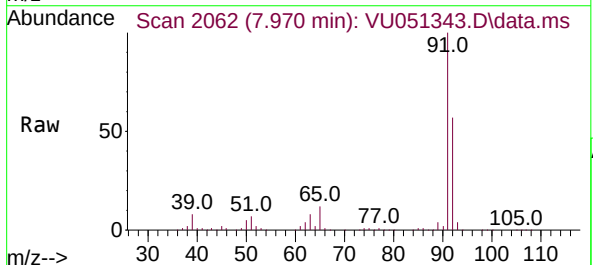
Acq: 10 Oct 2022 22:23

Tgt Ion: 91 Resp: 894636

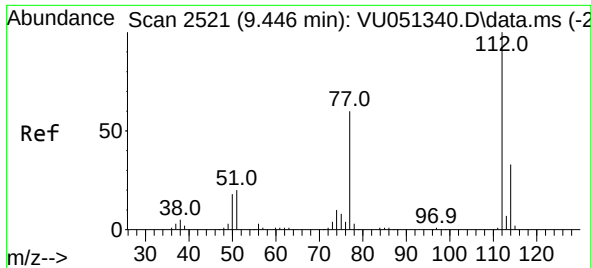
Ion Ratio Lower Upper

91 100

92 56.9 39.9 74.1



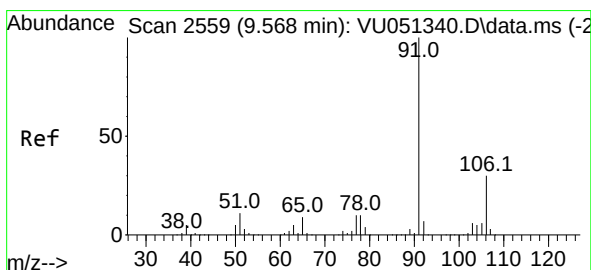
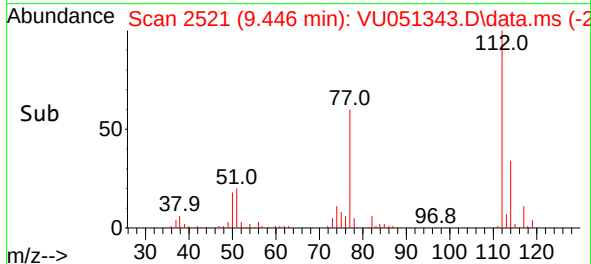
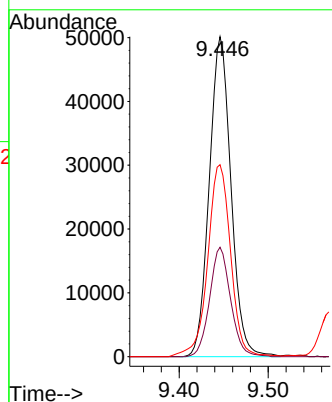
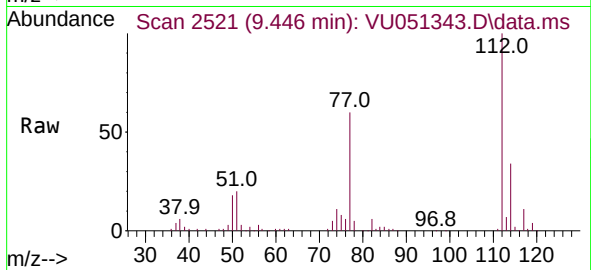




#51  
Chlorobenzene  
Concen: 2.030 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.000 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

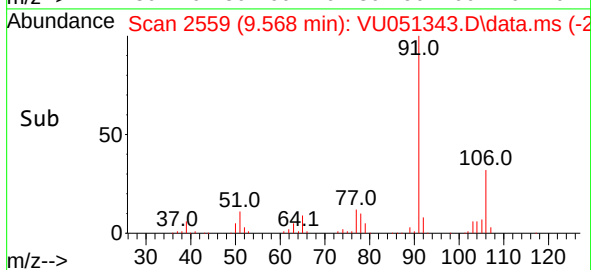
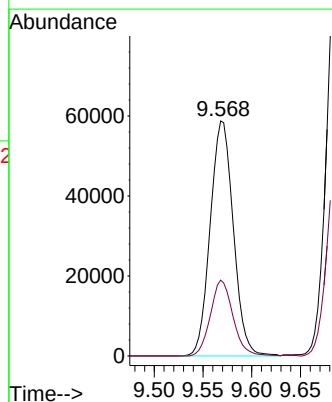
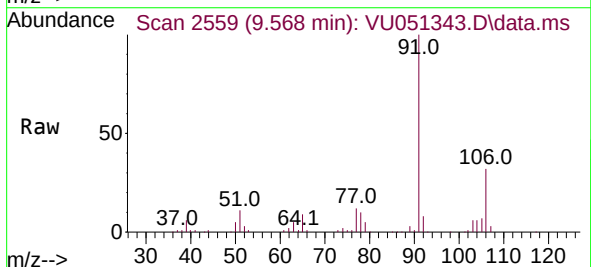
Instrument :  
MSVOA\_U  
ClientSampleId :

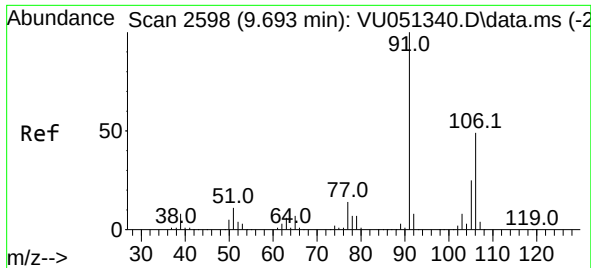
Tgt Ion:112 Resp: 84889  
Ion Ratio Lower Upper  
112 100  
114 34.2 22.3 41.5  
77 60.0 48.1 72.1



#52  
Ethylbenzene  
Concen: 1.541 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

Tgt Ion: 91 Resp: 96944  
Ion Ratio Lower Upper  
91 100  
106 32.2 20.9 38.7

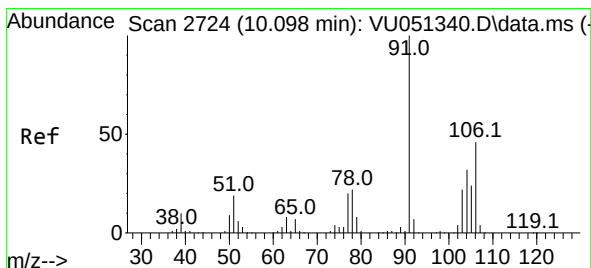
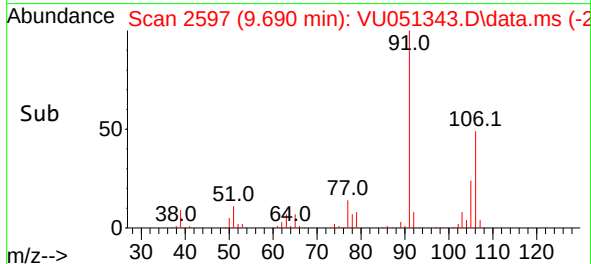
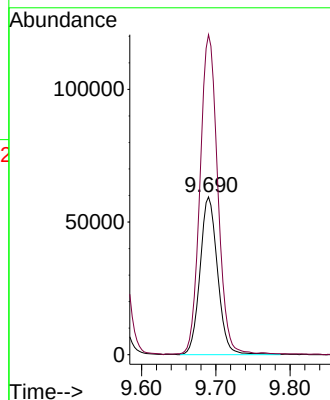
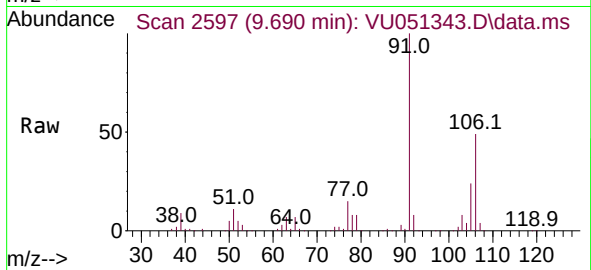




#53  
m,p-Xylene  
Concen: 4.002 ug/L  
RT: 9.690 min Scan# 2598  
Delta R.T. -0.003 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

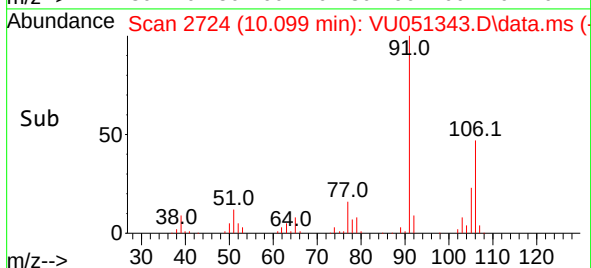
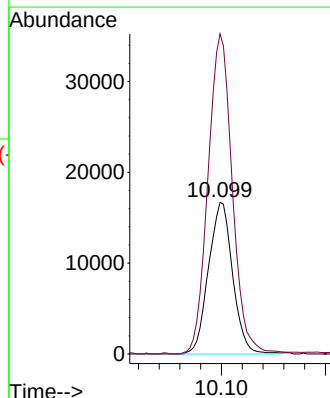
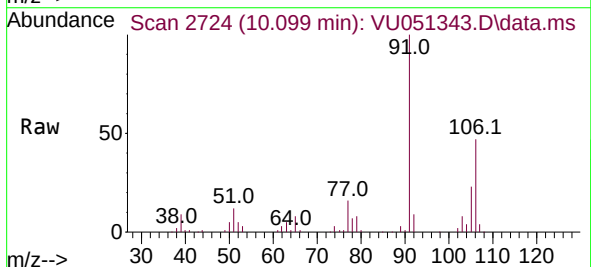
Instrument :  
MSVOA\_U  
ClientSampleId :

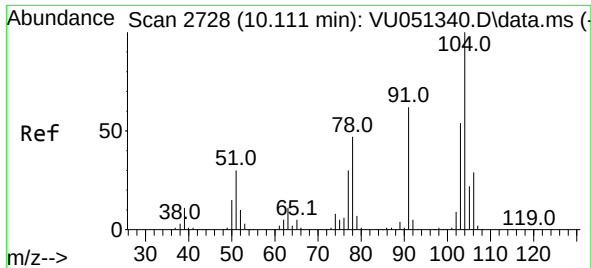
Tgt Ion:106 Resp: 97635  
Ion Ratio Lower Upper  
106 100  
91 202.8 143.9 267.3



#54  
o-Xylene  
Concen: 1.165 ug/L  
RT: 10.099 min Scan# 2724  
Delta R.T. 0.000 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

Tgt Ion:106 Resp: 26894  
Ion Ratio Lower Upper  
106 100  
91 211.0 154.4 286.8

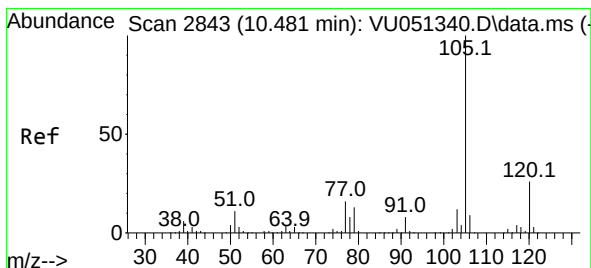
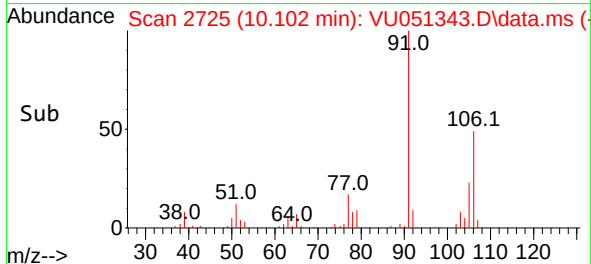
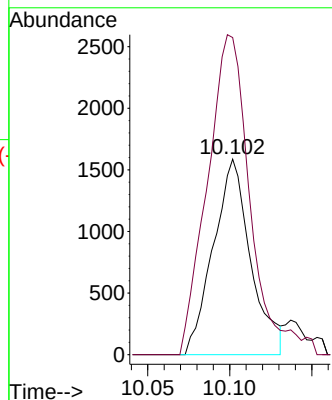
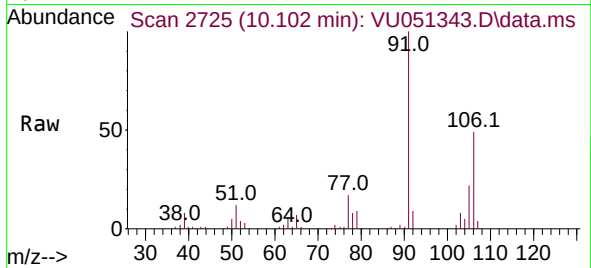




#55  
Styrene  
Concen: 0.063 ug/L  
RT: 10.102 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

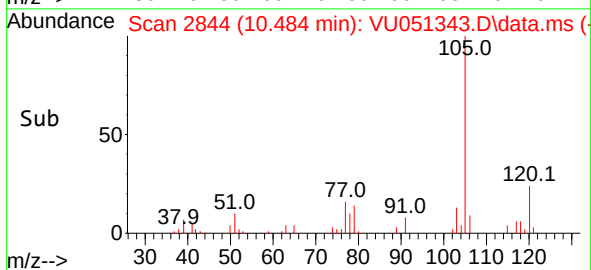
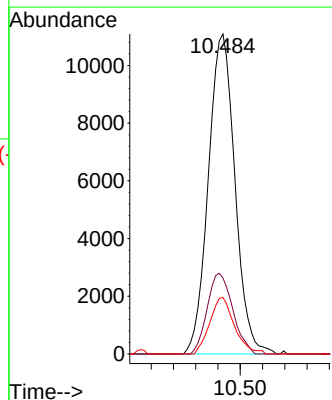
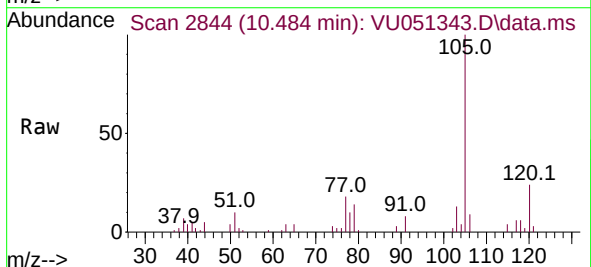
Instrument :  
MSVOA\_U  
ClientSampleId :

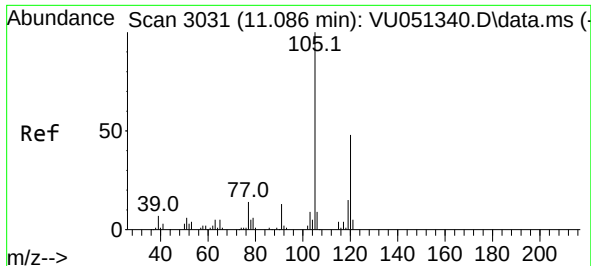
Tgt Ion:104 Resp: 2519  
Ion Ratio Lower Upper  
104 100  
78 162.3 32.1 59.7#



#60  
Isopropylbenzene  
Concen: 0.340 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. 0.003 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

Tgt Ion:105 Resp: 18402  
Ion Ratio Lower Upper  
105 100  
120 24.1 20.6 30.8  
77 16.4 13.5 20.3





#62

1,3,5-Trimethylbenzene

Concen: 0.314 ug/L

RT: 11.086 min Scan# 3031

Delta R.T. 0.000 min

Lab File: VU051343.D

Acq: 10 Oct 2022 22:23

Instrument :

MSVOA\_U

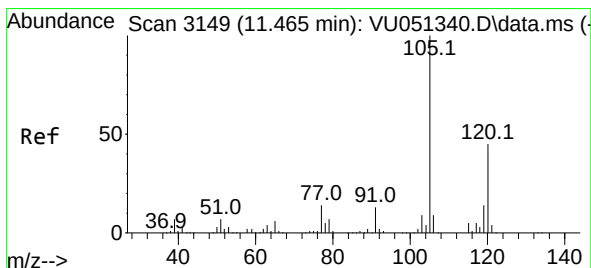
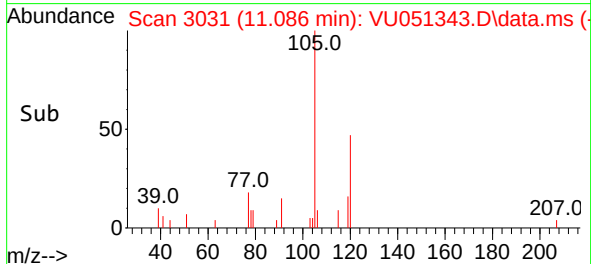
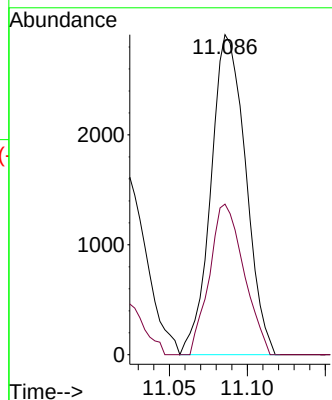
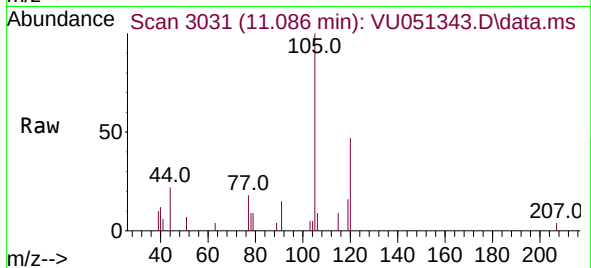
ClientSampleId :

Tgt Ion:105 Resp: 4508

Ion Ratio Lower Upper

105 100

120 46.7 37.7 56.5



#63

1,2,4-Trimethylbenzene

Concen: 0.416 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VU051343.D

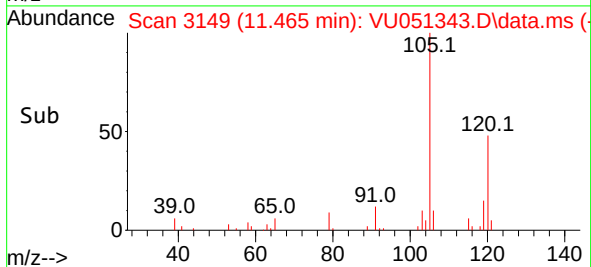
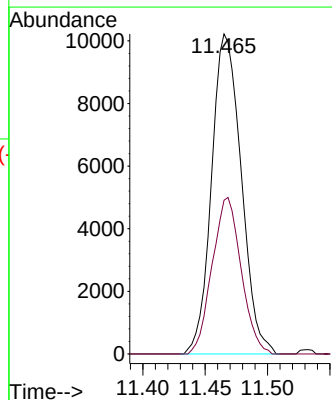
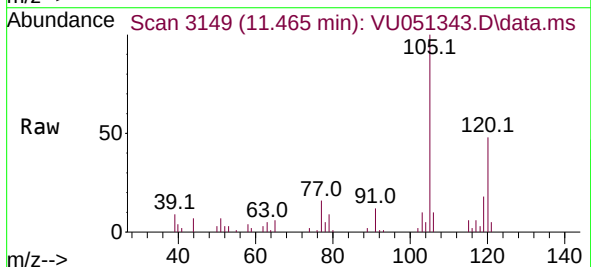
Acq: 10 Oct 2022 22:23

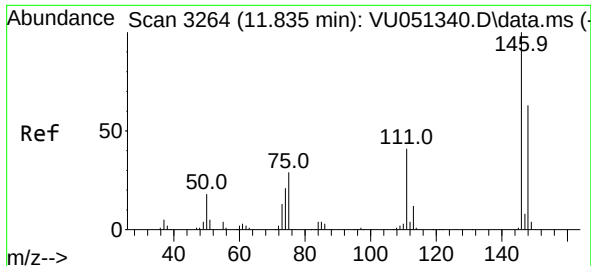
Tgt Ion:105 Resp: 16913

Ion Ratio Lower Upper

105 100

120 47.9 35.6 53.4





#65

1,4-Dichlorobenzene

Concen: 0.136 ug/L

RT: 11.835 min Scan# 3264

Delta R.T. 0.000 min

Lab File: VU051343.D

Acq: 10 Oct 2022 22:23

Instrument :

MSVOA\_U

ClientSampleId :

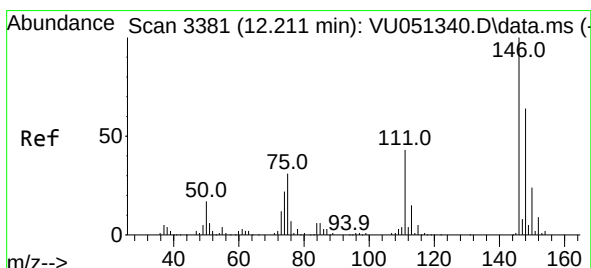
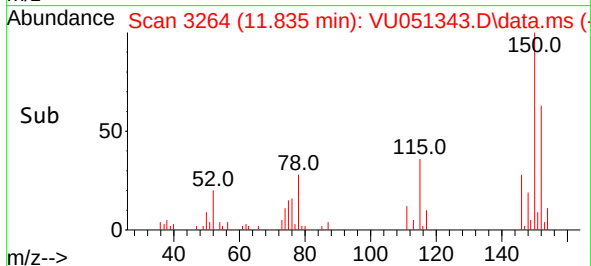
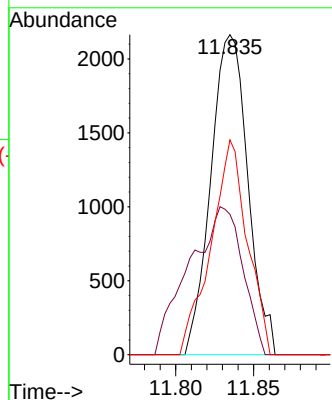
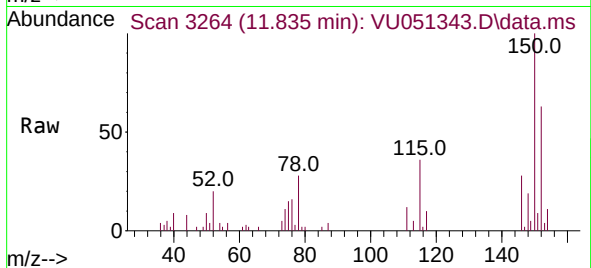
Tgt Ion:146 Resp: 3580

Ion Ratio Lower Upper

146 100

111 43.9 29.1 54.1

148 67.1 44.2 82.0



#67

1,2-Dichlorobenzene

Concen: 0.174 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU051343.D

Acq: 10 Oct 2022 22:23

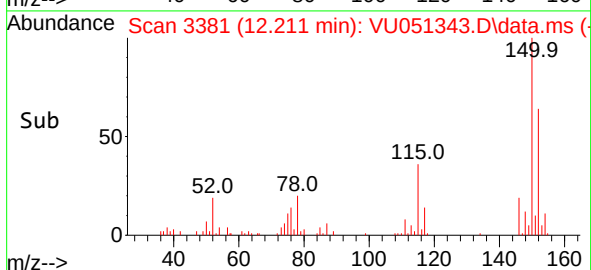
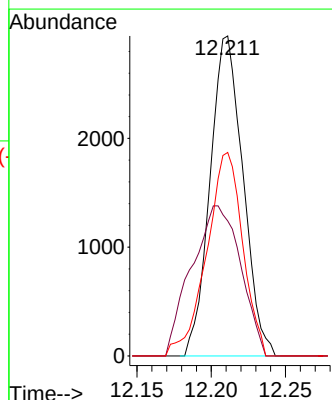
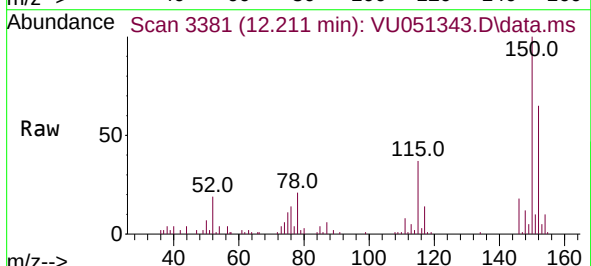
Tgt Ion:146 Resp: 4537

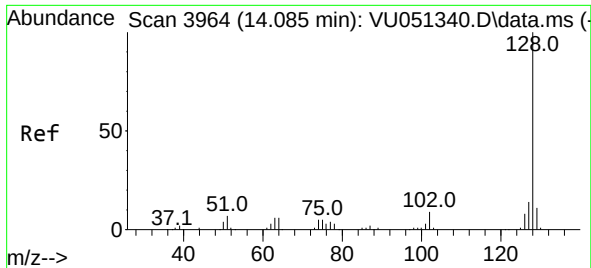
Ion Ratio Lower Upper

146 100

111 42.2 35.5 53.3

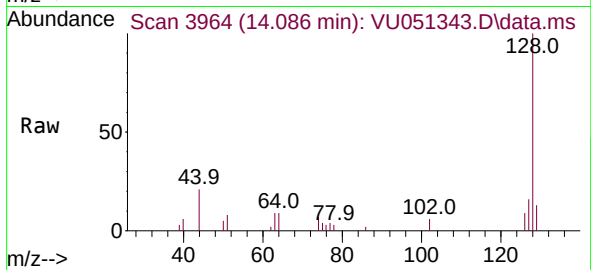
148 63.6 50.9 76.3





#71  
Naphthalene  
Concen: 0.400 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU051343.D  
Acq: 10 Oct 2022 22:23

Instrument :  
MSVOA\_U  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 9749  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 10.0  | 8.5   | 12.7  |
| 127      | 14.3  | 11.1  | 16.7  |

