

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U062123\  
 Data File : VU054636.D  
 Acq On : 21 Jun 2023 12:16  
 Operator : MD/SY  
 Sample : 03326-10  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GCA38

Quant Time: Jun 22 02:43:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Jun 22 02:42:14 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) 1,4-Difluorobenzene     | 6.245  | 114  | 339141   | 5.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.412  | 117  | 322734   | 5.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.807 | 152  | 152999   | 5.000 | ug/L  | 0.00     |

## System Monitoring Compounds

|                               |        |       |          |          |      |          |
|-------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3          | 1.599  | 65    | 128917   | 5.973    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =    | 119.400% |
| 7) Chloroethane-d5            | 1.914  | 69    | 101043   | 5.000    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =    | 100.000% |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 50541    | 5.243    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =    | 104.800% |
| 20) 2-Butanone-d5             | 4.634  | 46    | 302354   | 49.825   | ug/L | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =    | 99.640%  |
| 24) Chloroform-d              | 5.058  | 84    | 201587   | 4.468    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 89.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 98439    | 4.476    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 89.600%  |
| 32) Benzene-d6                | 5.724  | 84    | 400938   | 4.469    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 89.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 134576   | 4.492    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =    | 89.800%  |
| 41) Toluene-d8                | 7.894  | 98    | 351090   | 4.410    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 88.200%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 49427    | 4.744    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =    | 94.800%  |
| 46) 2-Hexanone-d5             | 8.631  | 63    | 196971   | 45.062   | ug/L | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =    | 90.120%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 97485    | 4.363    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =    | 87.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 120438   | 4.667    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =    | 93.400%  |

## Target Compounds

|                              |        |     |          |         |        | Qvalue |
|------------------------------|--------|-----|----------|---------|--------|--------|
| 5) Vinyl chloride            | 1.605  | 62  | 53545    | 1.433   | ug/L   | 95     |
| 12) 1,1-Dichloroethene       | 2.576  | 96  | 10038    | 0.408   | ug/L # | 1      |
| 18) trans-1,2-Dichloroethene | 3.351  | 96  | 30170    | 1.188   | ug/L   | 97     |
| 19) 1,1-Dichloroethane       | 3.865  | 63  | 17382    | 0.331   | ug/L # | 97     |
| 22) cis-1,2-Dichloroethene   | 4.660  | 96  | 4686906  | 162.058 | ug/L   | 97     |
| 25) Chloroform               | 5.084  | 83  | 158745   | 3.064   | ug/L   | 99     |
| 27) 1,2-Dichloroethane       | 5.788  | 62  | 6781     | 0.223   | ug/L # | 95     |
| 30) Cyclohexane              | 5.383  | 56  | 20141    | 0.423   | ug/L   | 93     |
| 33) Benzene                  | 5.772  | 78  | 78610    | 0.678   | ug/L   | 100    |
| 34) Trichloroethene          | 6.537  | 95  | 16803305 | 547.850 | ug/L   | 96     |
| 35) Methylcyclohexane        | 6.685  | 83  | 28702    | 0.619   | ug/L # | 29     |
| 37) 1,2-Dichloropropane      | 6.685  | 63  | 13947    | 0.445   | ug/L # | 90     |
| 45) 1,1,2-Trichloroethane    | 8.396  | 97  | 5564     | 0.279   | ug/L   | 94     |
| 47) Tetrachloroethene        | 8.550  | 164 | 150555   | 6.413   | ug/L   | 99     |
| 48) 2-Hexanone               | 8.682  | 43  | 10404    | 0.834   | ug/L # | 83     |
| 49) Dibromochloromethane     | 8.547  | 129 | 142853   | 6.819   | ug/L # | 12     |
| 51) Chlorobenzene            | 9.444  | 112 | 222632   | 2.990   | ug/L   | 97     |
| 65) 1,4-Dichlorobenzene      | 11.830 | 146 | 13057    | 0.249   | ug/L   | 97     |
| 67) 1,2-Dichlorobenzene      | 12.209 | 146 | 8375     | 0.174   | ug/L   | 94     |

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Sample : 03326-10  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GCA38

Quant Time: Jun 22 02:43:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Jun 22 02:42:14 2023  
Response via : Initial Calibration

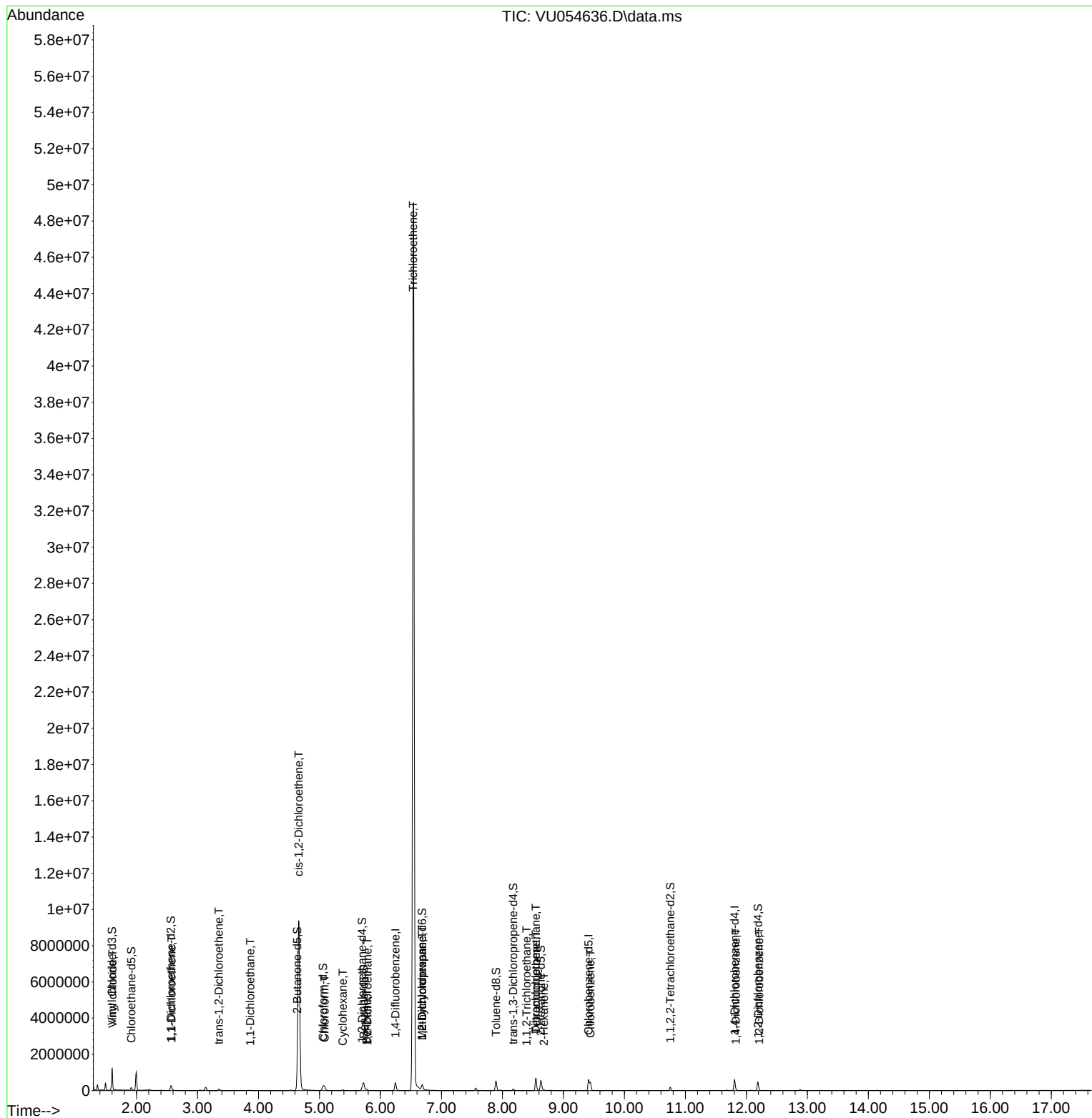
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

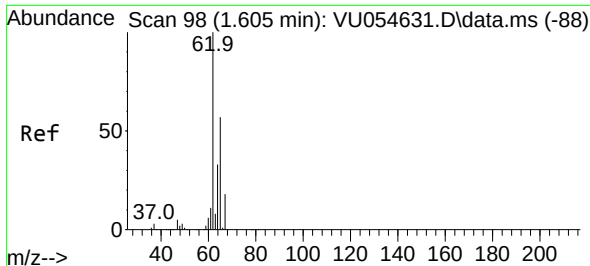
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062123\  
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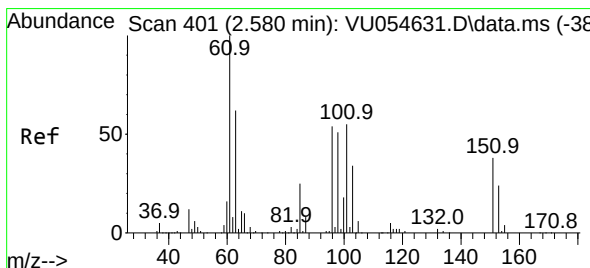
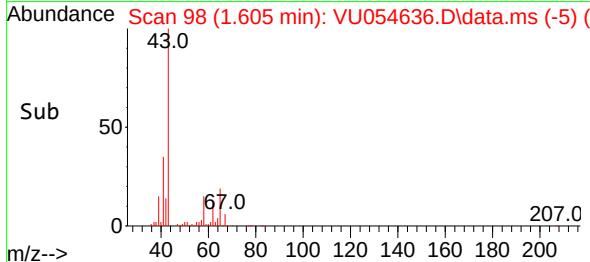
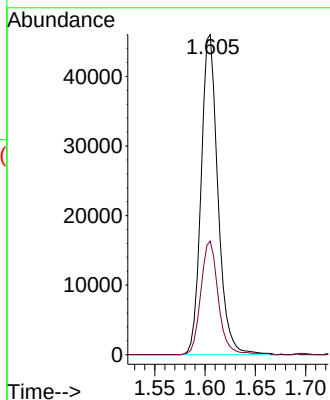
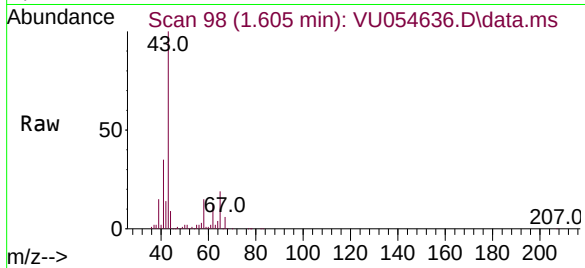




#5  
 Vinyl chloride  
 Concen: 1.433 ug/L  
 RT: 1.605 min Scan# 98  
 Delta R.T. -0.000 min  
 Lab File: VU054636.D  
 Acq: 21 Jun 2023 12:16

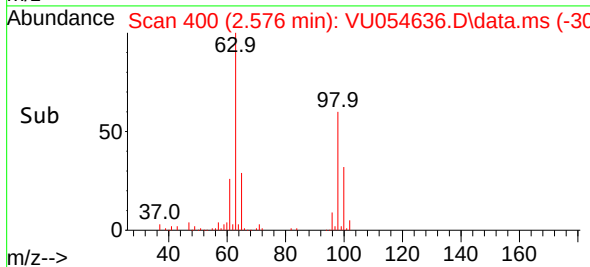
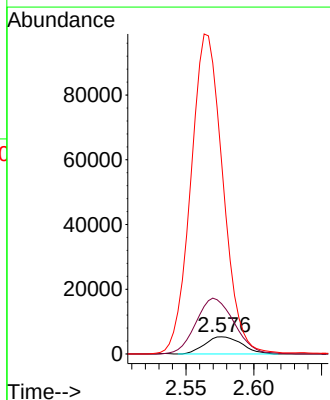
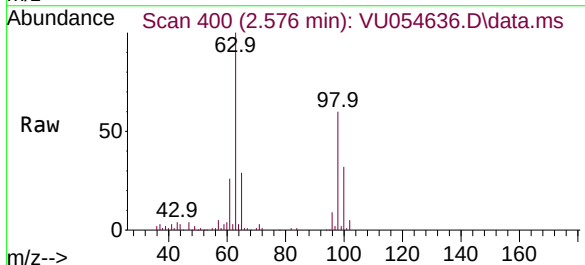
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GCA38

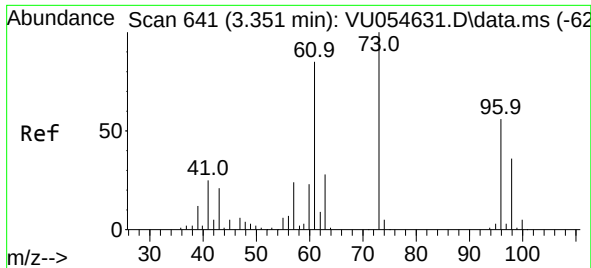
Tgt Ion: 62 Resp: 53545  
 Ion Ratio Lower Upper  
 62 100  
 64 35.5 23.0 42.6



#12  
 1,1-Dichloroethene  
 Concen: 0.408 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. -0.003 min  
 Lab File: VU054636.D  
 Acq: 21 Jun 2023 12:16

Tgt Ion: 96 Resp: 10038  
 Ion Ratio Lower Upper  
 96 100  
 61 292.1 119.9 222.7#  
 63 1118.9 64.3 119.3#

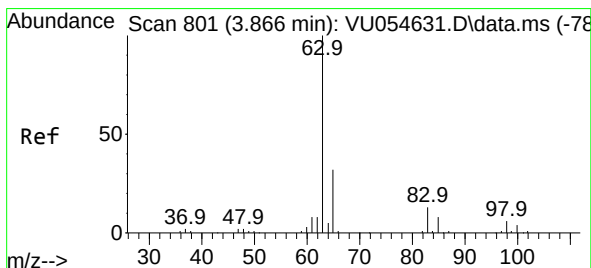
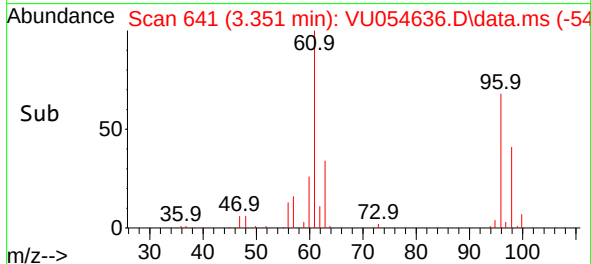
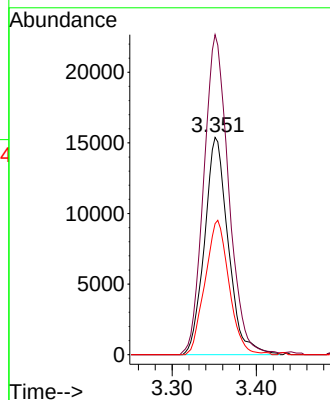
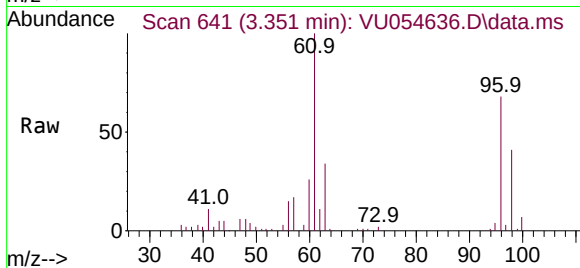




#18  
trans-1,2-Dichloroethene  
Concen: 1.188 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. -0.000 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

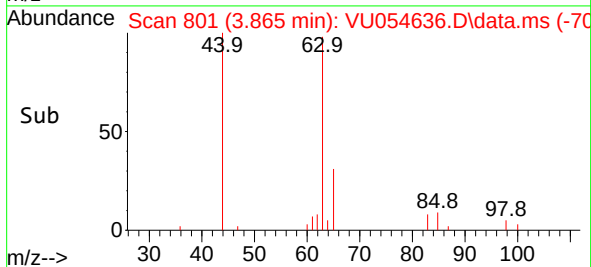
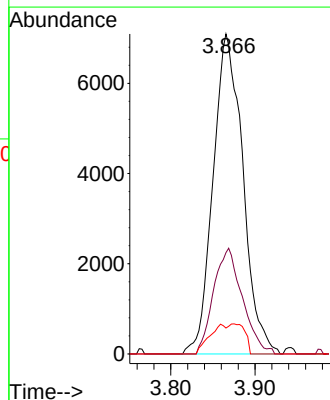
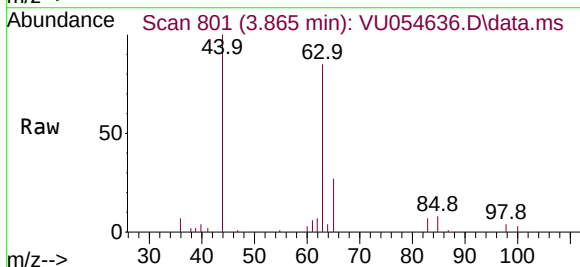
Instrument :  
MSVOA\_U  
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GCA38

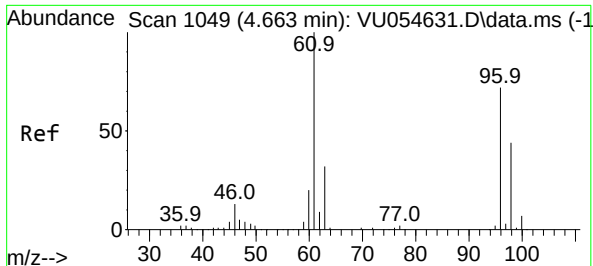
Tgt Ion: 96 Resp: 30170  
Ion Ratio Lower Upper  
96 100  
61 147.3 104.6 194.2  
98 60.3 45.4 84.4



#19  
1,1-Dichloroethane  
Concen: 0.331 ug/L  
RT: 3.865 min Scan# 801  
Delta R.T. -0.000 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

Tgt Ion: 63 Resp: 17382  
Ion Ratio Lower Upper  
63 100  
65 31.6 22.2 41.2  
83 8.1 9.0 16.6#





#22

cis-1,2-Dichloroethene

Concen: 162.058 ug/L

RT: 4.660 min Scan# 110

Delta R.T. -0.003 min

Lab File: VU054636.D

Acq: 21 Jun 2023 12:16

Instrument :

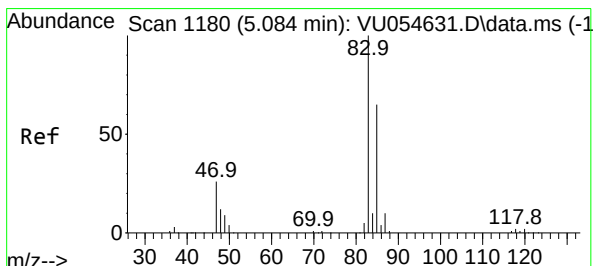
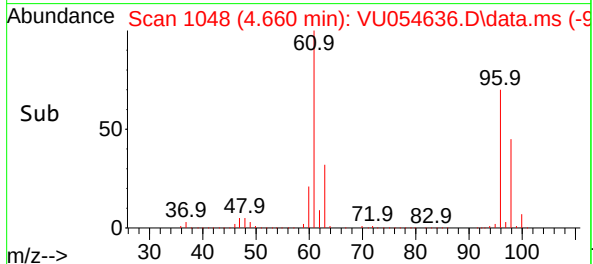
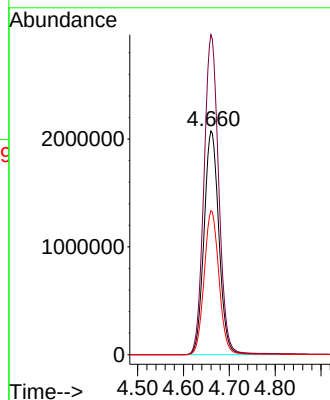
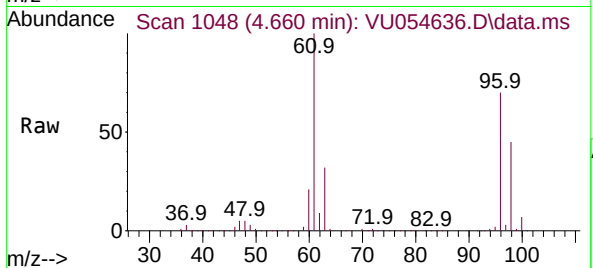
MSVOA\_U

ClientSampleId :

GCA38

Tgt Ion: 96 Resp: 4686906

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 143.0 | 96.5  | 179.1 |
| 98  | 64.3  | 44.9  | 83.3  |



#25

Chloroform

Concen: 3.064 ug/L

RT: 5.084 min Scan# 1180

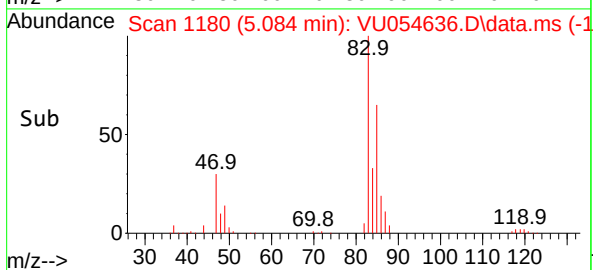
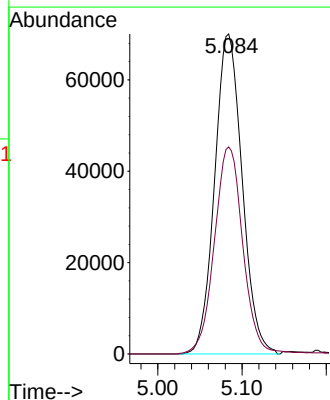
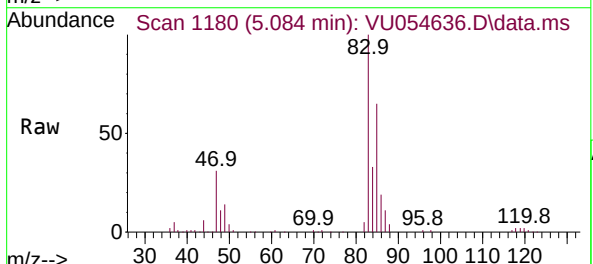
Delta R.T. -0.000 min

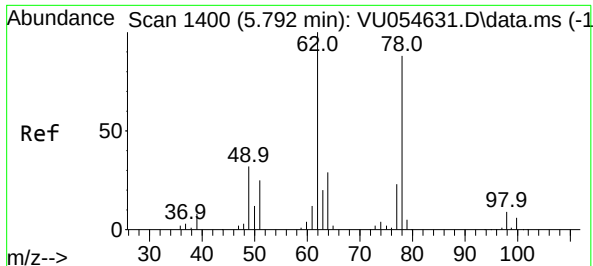
Lab File: VU054636.D

Acq: 21 Jun 2023 12:16

Tgt Ion: 83 Resp: 158745

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 64.7  | 44.7  | 82.9  |

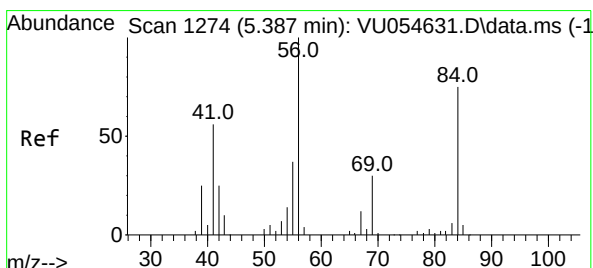
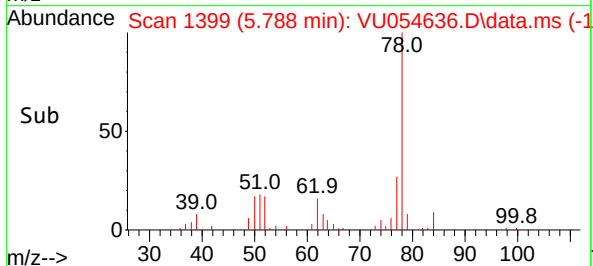
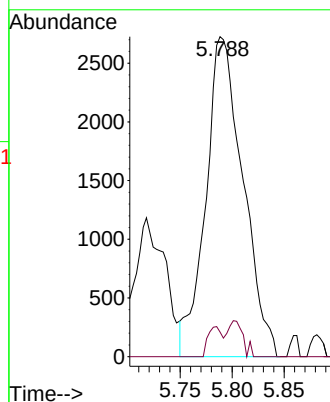
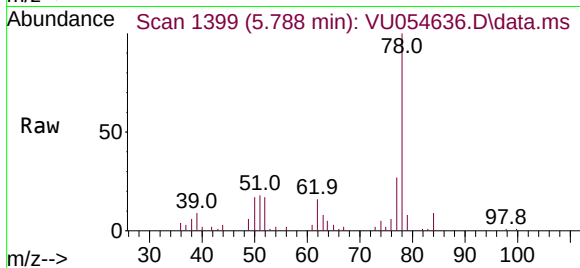




#27  
1,2-Dichloroethane  
Concen: 0.223 ug/L  
RT: 5.788 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

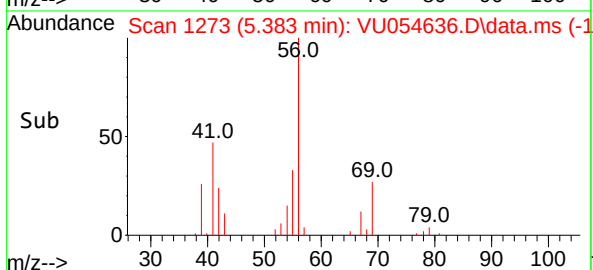
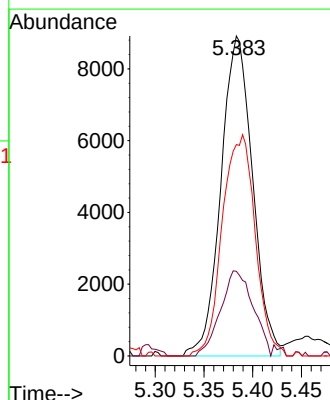
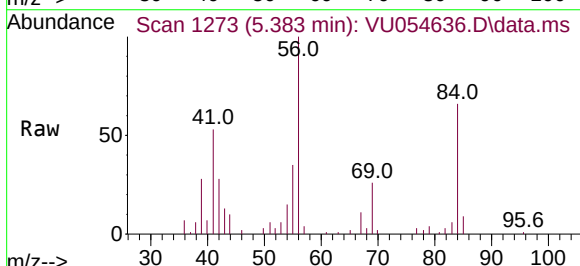
Instrument :  
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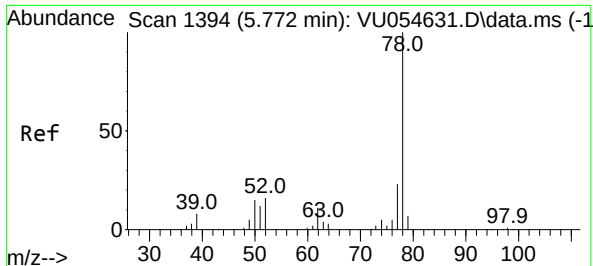
Tgt Ion: 62 Resp: 6781  
Ion Ratio Lower Upper  
62 100  
98 7.7 7.8 11.6#



#30  
Cyclohexane  
Concen: 0.423 ug/L  
RT: 5.383 min Scan# 1273  
Delta R.T. -0.003 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

Tgt Ion: 56 Resp: 20141  
Ion Ratio Lower Upper  
56 100  
69 27.3 23.9 35.9  
84 71.8 63.0 94.6

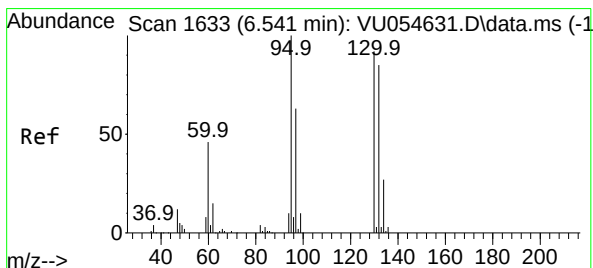
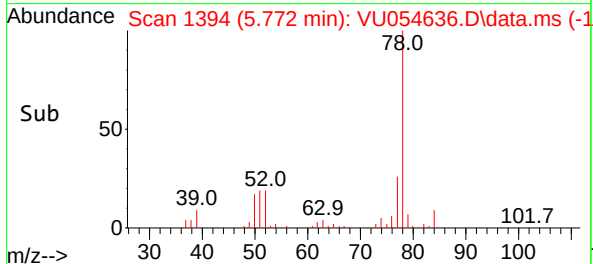
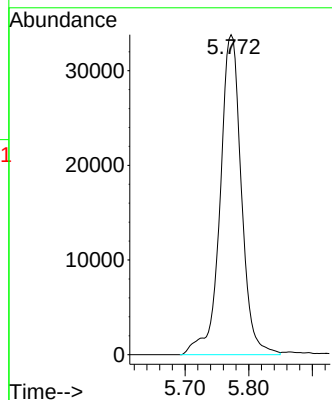
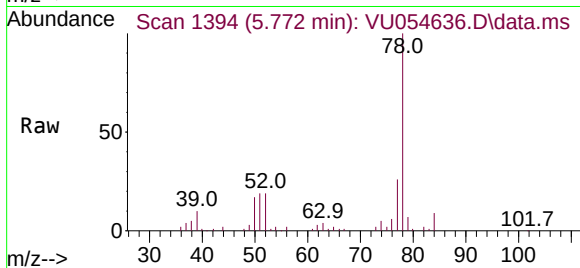




#33  
Benzene  
Concen: 0.678 ug/L  
RT: 5.772 min Scan# 1394  
Delta R.T. -0.000 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

Instrument :  
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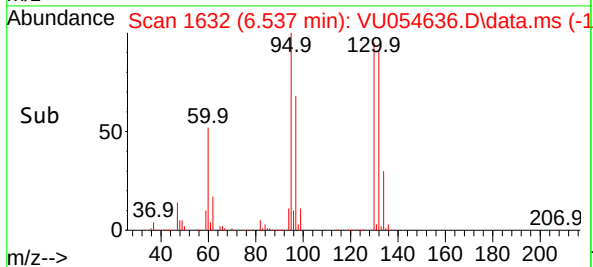
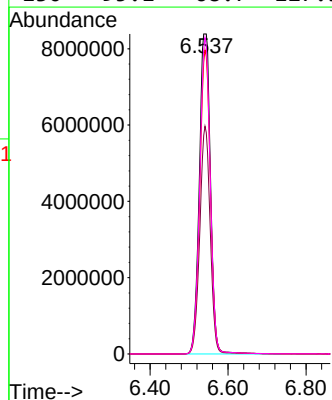
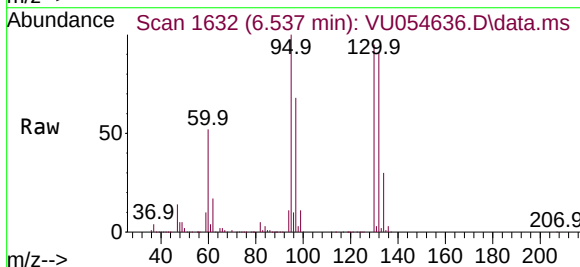
Tgt Ion: 78 Resp: 78610



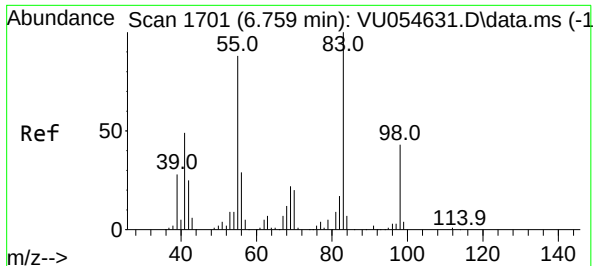
#34  
Trichloroethene  
Concen: 547.850 ug/L  
RT: 6.537 min Scan# 1632  
Delta R.T. -0.003 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

Tgt Ion: 95 Resp:16803305

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 68.3  | 46.8  | 87.0  |
| 132 | 91.1  | 68.4  | 127.0 |
| 130 | 95.1  | 68.7  | 127.5 |







#35

Methylcyclohexane

Concen: 0.619 ug/L

RT: 6.685 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU054636.D

Acq: 21 Jun 2023 12:16

Instrument :

MSVOA\_U

ClientSampleId :

GCA38

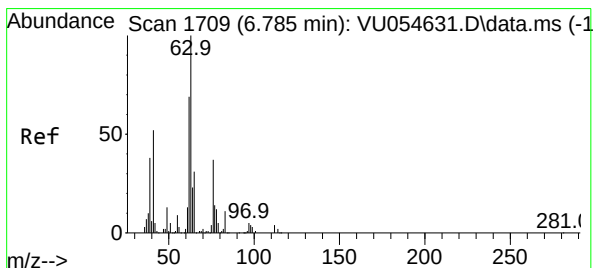
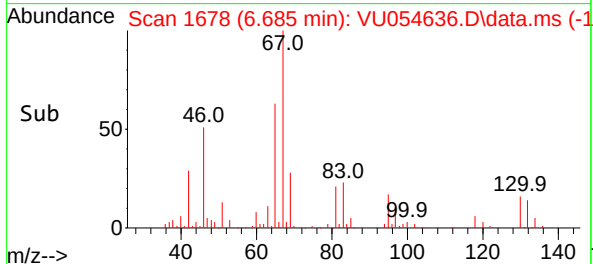
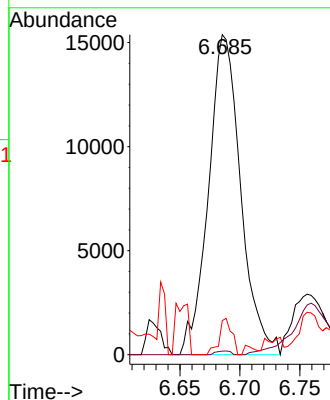
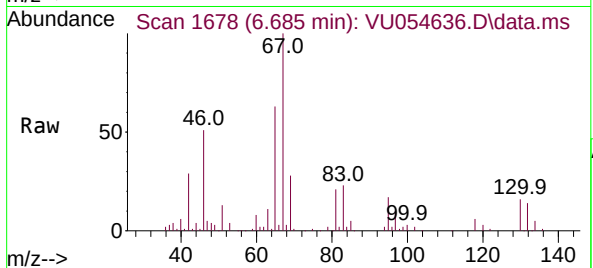
Tgt Ion: 83 Resp: 28702

Ion Ratio Lower Upper

83 100

55 18.1 67.1 100.7#

98 0.0 35.1 52.7#



#37

1,2-Dichloropropane

Concen: 0.445 ug/L

RT: 6.685 min Scan# 1678

Delta R.T. -0.100 min

Lab File: VU054636.D

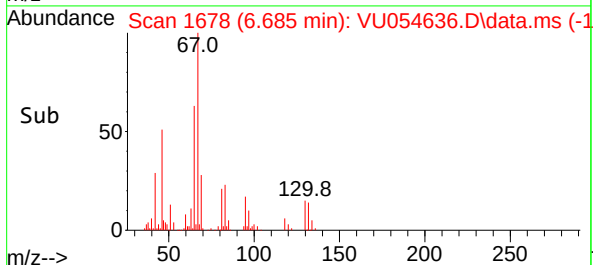
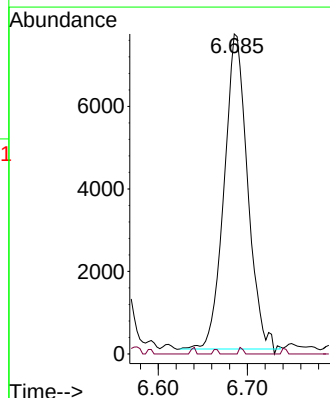
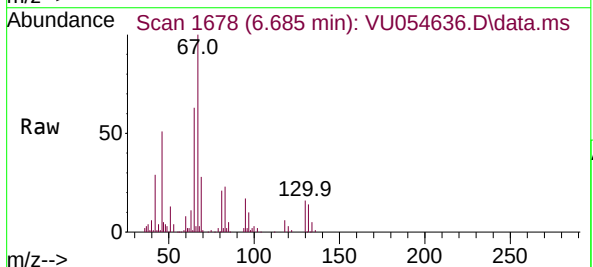
Acq: 21 Jun 2023 12:16

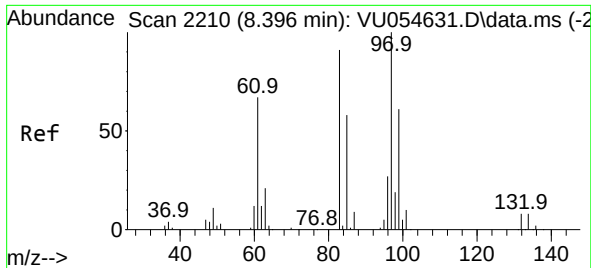
Tgt Ion: 63 Resp: 13947

Ion Ratio Lower Upper

63 100

112 0.4 3.0 4.6#

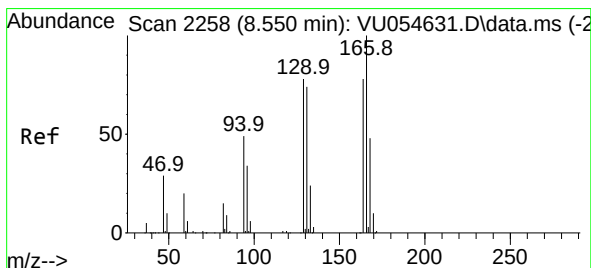
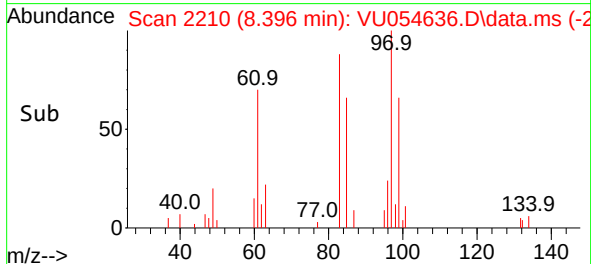
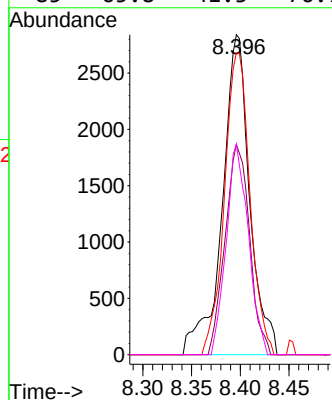
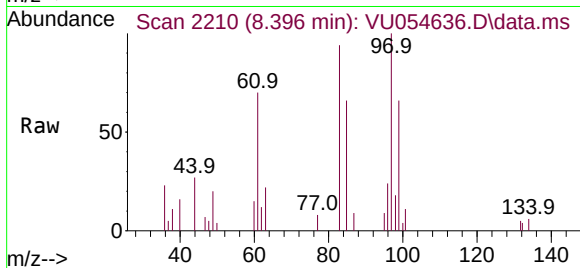




#45  
1,1,2-Trichloroethane  
Concen: 0.279 ug/L  
RT: 8.396 min Scan# 2110  
Delta R.T. -0.000 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

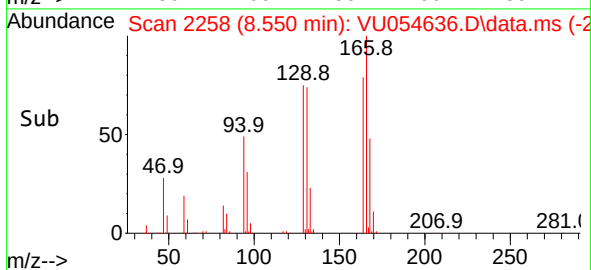
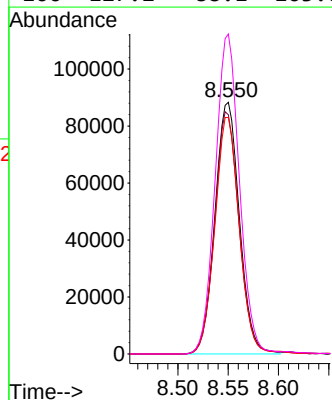
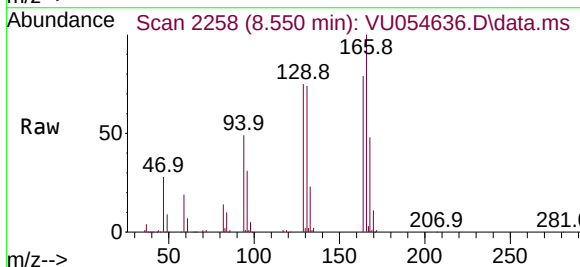
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCA38

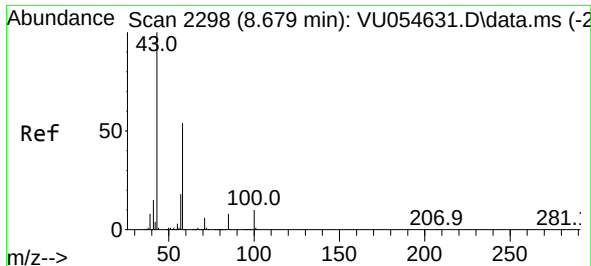
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 5564  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 65.7  | 43.0  | 80.0  |
| 83       | 94.4  | 63.8  | 118.6 |
| 85       | 65.8  | 41.3  | 76.7  |



#47  
Tetrachloroethene  
Concen: 6.413 ug/L  
RT: 8.550 min Scan# 2258  
Delta R.T. -0.000 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 150555 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 95.0  | 67.7  | 125.7  |
| 131      | 94.0  | 64.6  | 120.0  |
| 166      | 127.2 | 88.1  | 163.7  |

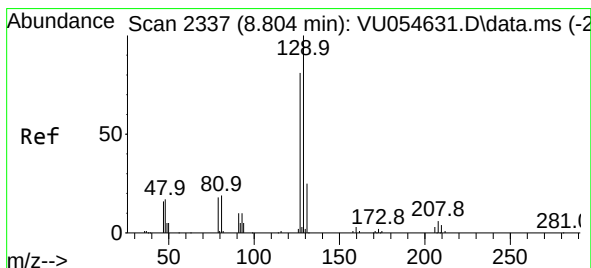
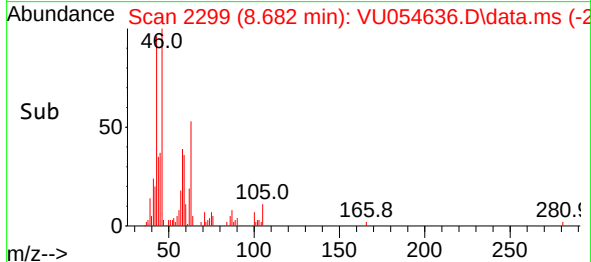
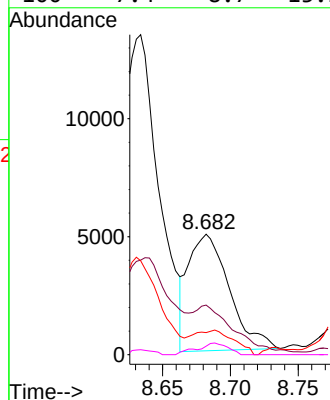
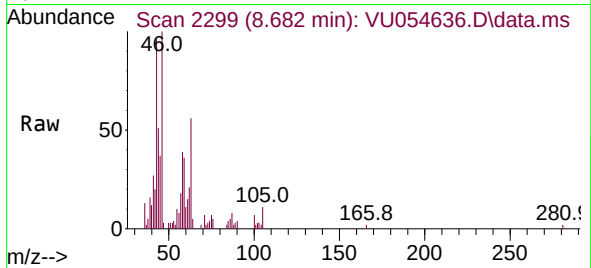




#48  
2-Hexanone  
Concen: 0.834 ug/L  
RT: 8.682 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

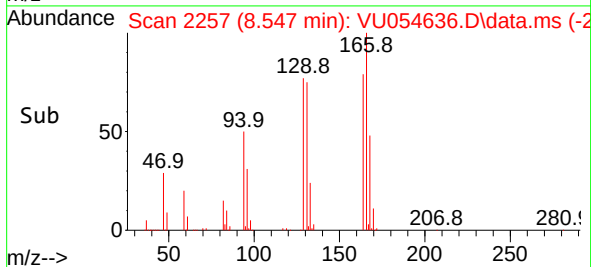
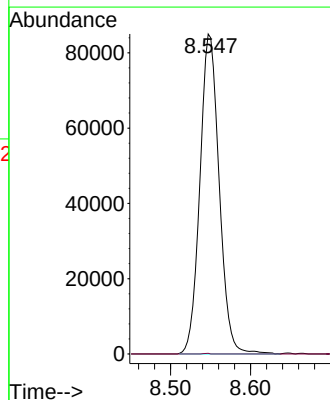
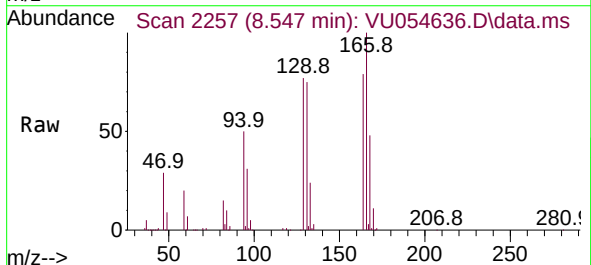
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCA38

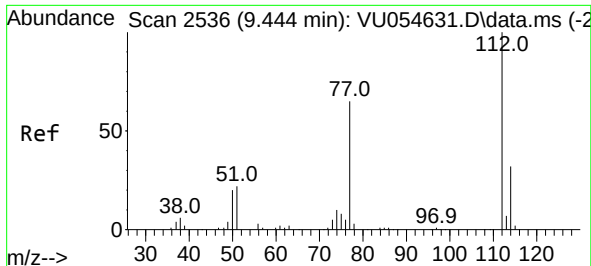
Tgt Ion: 43 Resp: 10404  
Ion Ratio Lower Upper  
43 100  
58 39.8 45.2 67.8#  
57 21.0 15.8 23.6  
100 7.4 8.7 13.1#



#49  
Dibromochloromethane  
Concen: 6.819 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. -0.257 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

Tgt Ion: 129 Resp: 142853  
Ion Ratio Lower Upper  
129 100  
127 0.2 53.2 98.8#

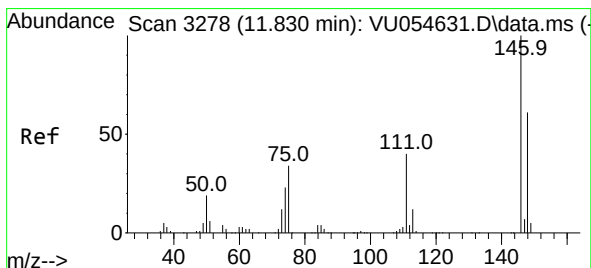
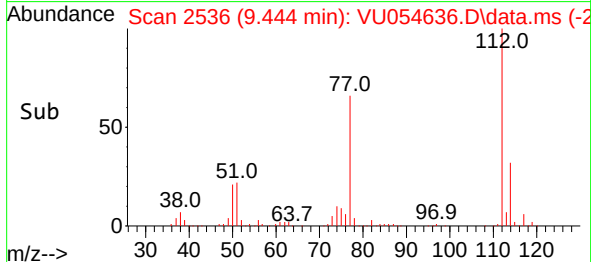
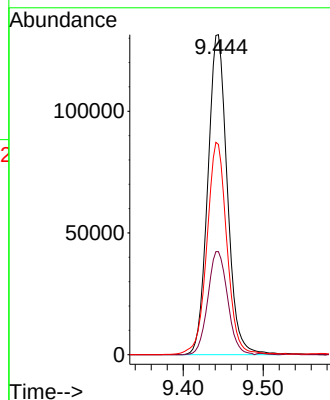
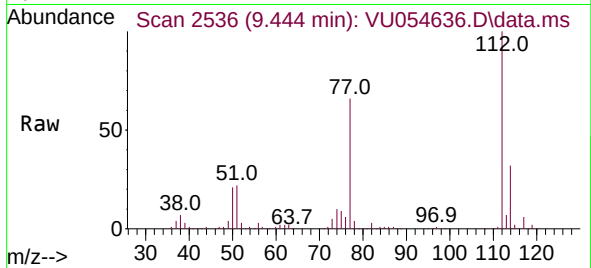




#51  
Chlorobenzene  
Concen: 2.990 ug/L  
RT: 9.444 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

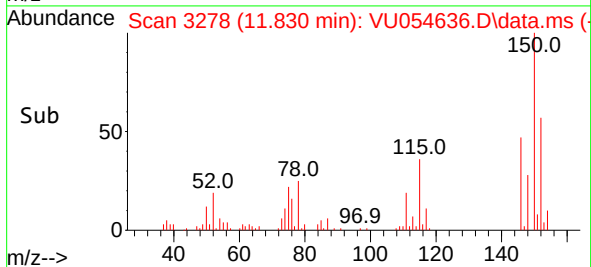
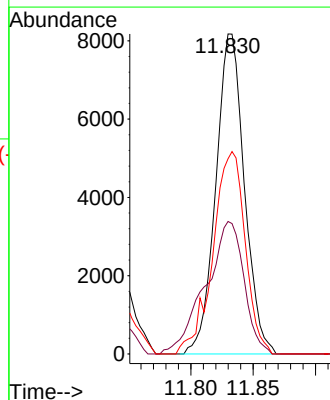
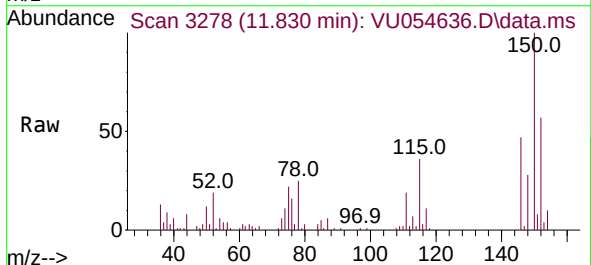
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCA38

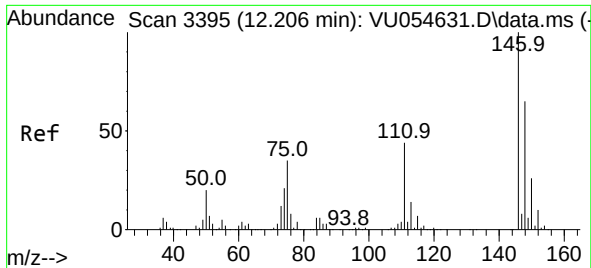
Tgt Ion:112 Resp: 222632  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.7 42.1  
77 65.7 49.8 74.8



#65  
1,4-Dichlorobenzene  
Concen: 0.249 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. -0.000 min  
Lab File: VU054636.D  
Acq: 21 Jun 2023 12:16

Tgt Ion:146 Resp: 13057  
Ion Ratio Lower Upper  
146 100  
111 41.4 28.0 52.0  
148 61.0 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 0.174 ug/L

RT: 12.209 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU054636.D

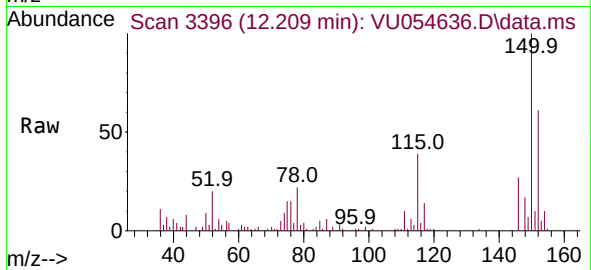
Acq: 21 Jun 2023 12:16

Instrument :

MSVOA\_U

ClientSampleId :

GCA38



Tgt Ion:146 Resp: 8375

Ion Ratio Lower Upper

146 100

111 36.0 34.5 51.7

148 61.9 50.9 76.3

