

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020223\  
 Data File : VU052927.D  
 Acq On : 02 Feb 2023 15:48  
 Operator : JC/MD  
 Sample : 01381-12  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 03 00:26:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM012623WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Feb 03 00:24:34 2023  
 Response via : Initial Calibration

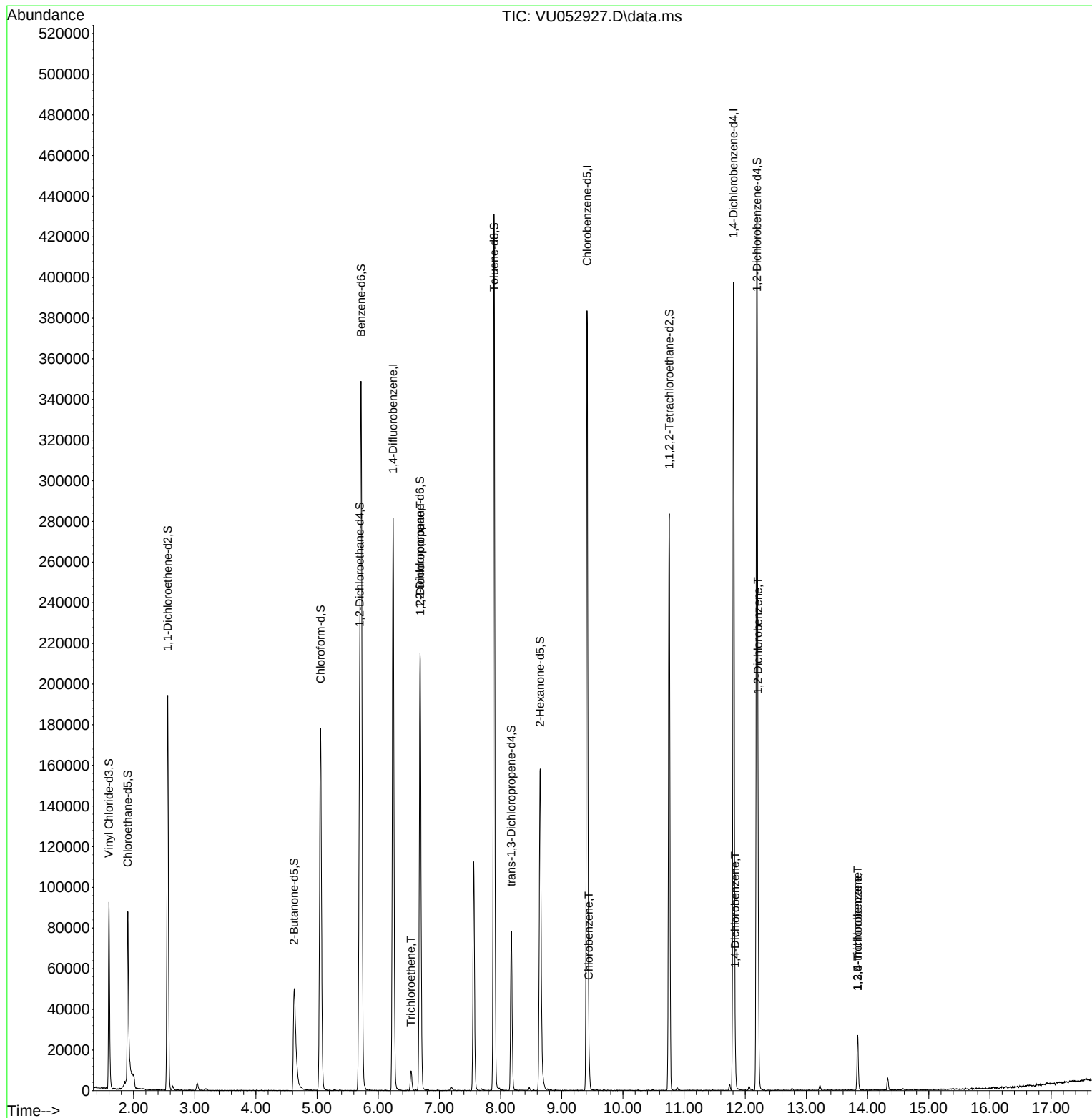
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 235037   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 224296   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 110635   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 74639    | 44.121   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 88.240%  |
| 7) Chloroethane-d5            | 1.906   | 69    | 69809    | 50.081   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 100.160% |
| 11) 1,1-Dichloroethene-d2     | 2.559   | 63    | 114067   | 33.901   | ug/L   | -0.01    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 67.800%  |
| 21) 2-Butanone-d5             | 4.626   | 46    | 87049    | 83.297   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 83.300%  |
| 24) Chloroform-d              | 5.057   | 84    | 170560   | 47.242   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.480%  |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 111594   | 48.408   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.820%  |
| 32) Benzene-d6                | 5.719   | 84    | 328253   | 47.902   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 98410    | 48.966   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 97.940%  |
| 41) Toluene-d8                | 7.893   | 98    | 284602   | 45.610   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.220%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 46540    | 46.202   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.400%  |
| 47) 2-Hexanone-d5             | 8.645   | 63    | 59786    | 84.662   | ug/L   | 0.02     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 84.660%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 133414   | 44.930   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 89.860%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 115779   | 53.895   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 107.800% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 34) Trichloroethene           | 6.536   | 95    | 3175     | 1.636    | ug/L   | 90       |
| 37) 1,2-Dichloropropane       | 6.687   | 63    | 11563    | 6.160    | ug/L # | 85       |
| 51) Chlorobenzene             | 9.443   | 112   | 8119     | 1.508    | ug/L   | 88       |
| 65) 1,4-Dichlorobenzene       | 11.835  | 146   | 6517     | 1.746    | ug/L   | 94       |
| 67) 1,2-Dichlorobenzene       | 12.208  | 146   | 27928    | 7.659    | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.838  | 180   | 9663     | 3.621    | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.838  | 180   | 9663     | 4.319    | ug/L   | 96       |
| -----                         |         |       |          |          |        |          |

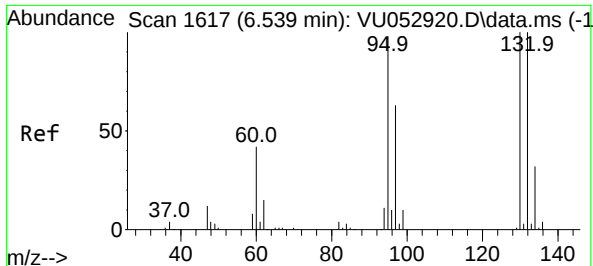
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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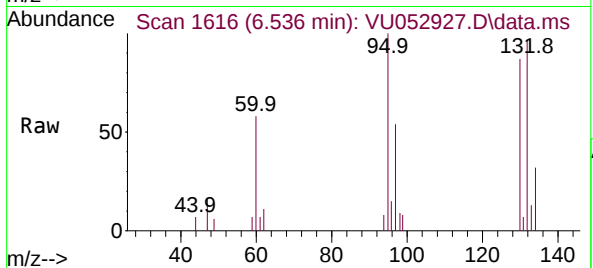
Quant Time: Feb 03 00:26:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM012623WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 03 00:24:34 2023  
Response via : Initial Calibration





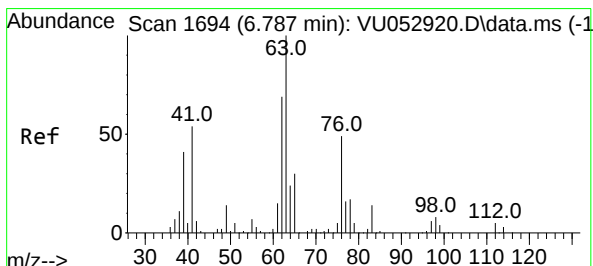
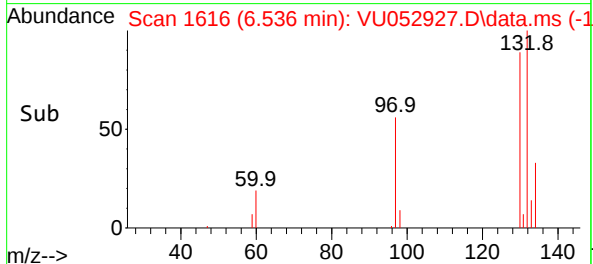
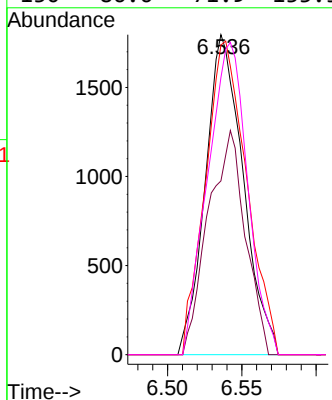
#34  
 Trichloroethene  
 Concen: 1.636 ug/L  
 RT: 6.536 min Scan# 1616  
 Delta R.T. -0.004 min  
 Lab File: VU052927.D  
 Acq: 02 Feb 2023 15:48

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion: 95 Resp: 3175

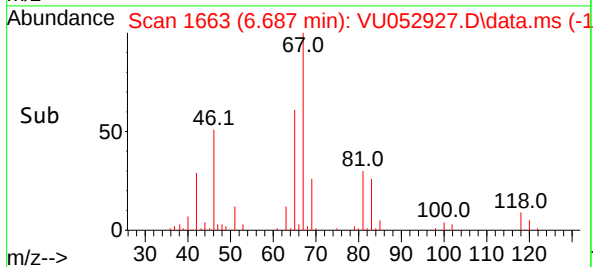
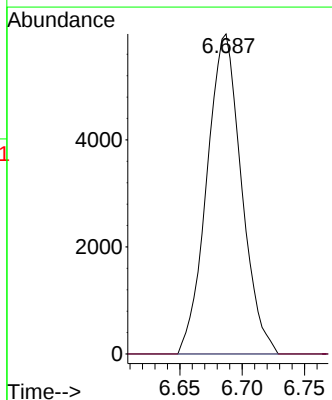
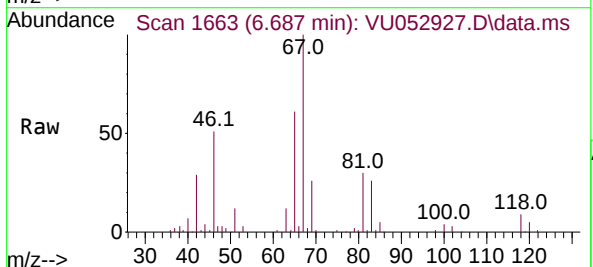
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 54.3  | 44.5  | 82.7  |
| 132 | 96.8  | 66.8  | 124.0 |
| 130 | 86.6  | 71.9  | 133.5 |

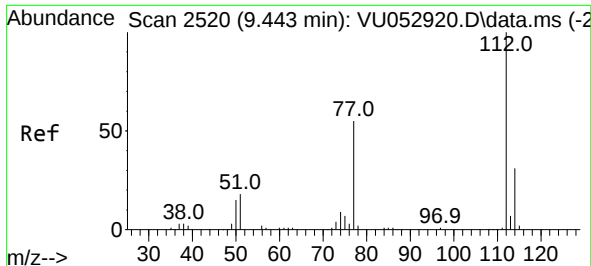


#37  
 1,2-Dichloropropane  
 Concen: 6.160 ug/L  
 RT: 6.687 min Scan# 1663  
 Delta R.T. -0.100 min  
 Lab File: VU052927.D  
 Acq: 02 Feb 2023 15:48

Tgt Ion: 63 Resp: 11563

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 112 | 0.0   | 3.8   | 5.8#  |

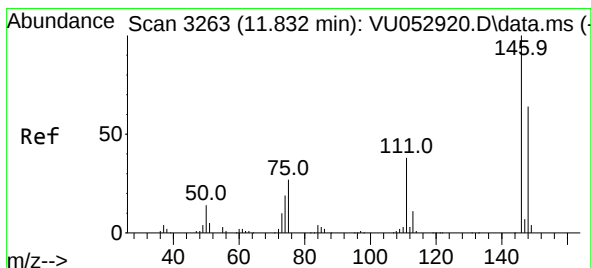
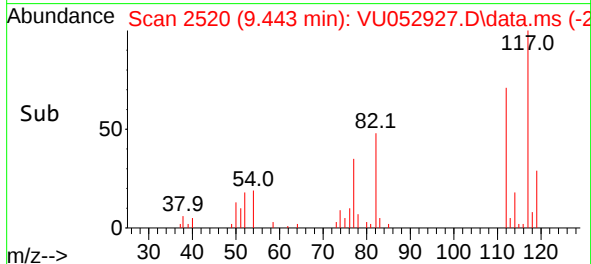
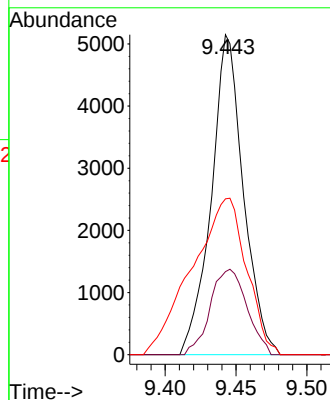
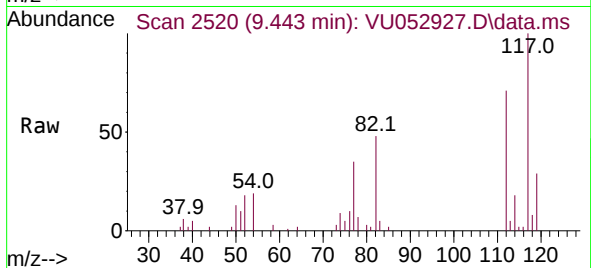




#51  
Chlorobenzene  
Concen: 1.508 ug/L  
RT: 9.443 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU052927.D  
Acq: 02 Feb 2023 15:48

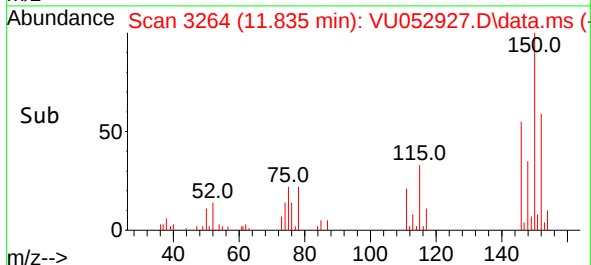
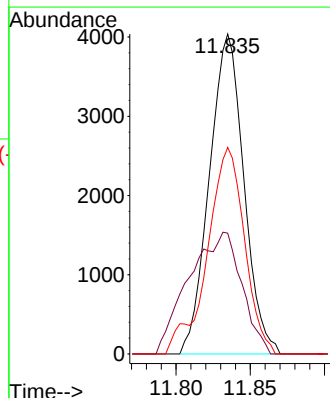
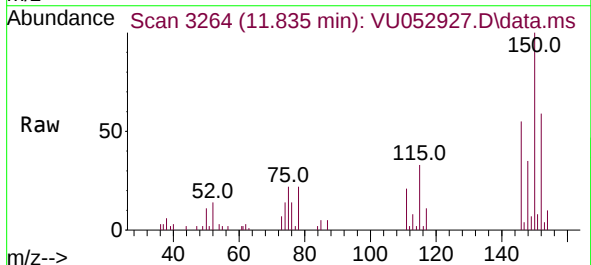
Instrument :  
MSVOA\_U  
ClientSampleId :

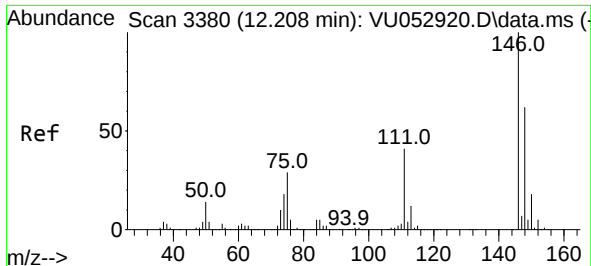
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:112 | Resp: | 8119      |
| Ion Ratio   | Lower | Upper     |
| 112         | 100   |           |
| 114         | 25.9  | 22.8 42.4 |
| 77          | 48.7  | 45.9 68.9 |



#65  
1,4-Dichlorobenzene  
Concen: 1.746 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.003 min  
Lab File: VU052927.D  
Acq: 02 Feb 2023 15:48

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 6517      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 35.2  | 26.7 49.7 |
| 148         | 60.2  | 45.6 84.6 |





#67

1,2-Dichlorobenzene

Concen: 7.659 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU052927.D

Acq: 02 Feb 2023 15:48

Instrument :

MSVOA\_U

ClientSampleId :

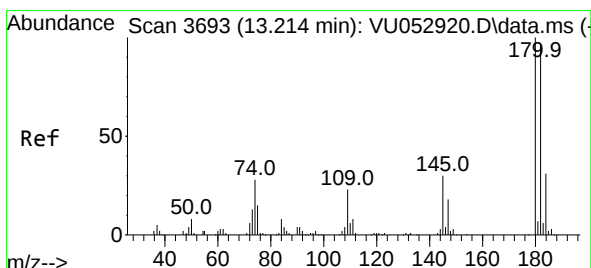
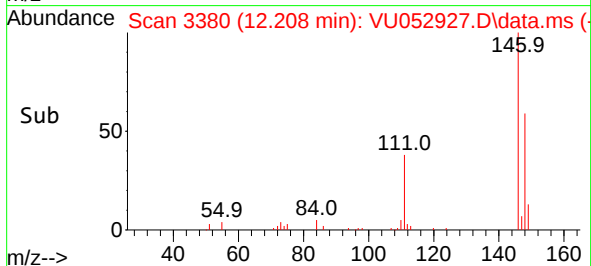
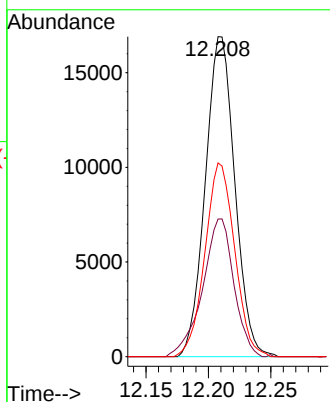
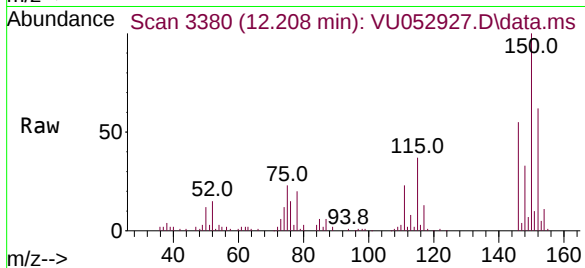
Tgt Ion:146 Resp: 27928

Ion Ratio Lower Upper

146 100

111 43.0 33.2 49.8

148 60.5 50.2 75.4



#69

1,3,5-Trichlorobenzene

Concen: 3.621 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.623 min

Lab File: VU052927.D

Acq: 02 Feb 2023 15:48

Tgt Ion:180 Resp: 9663

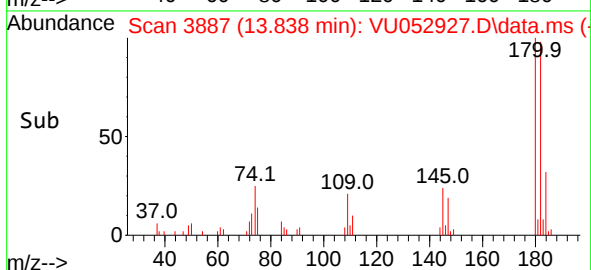
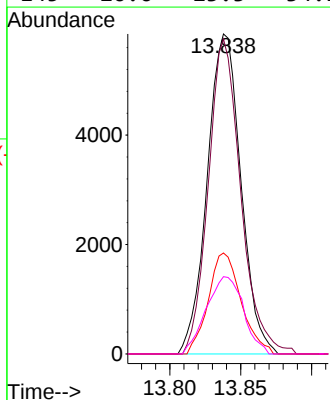
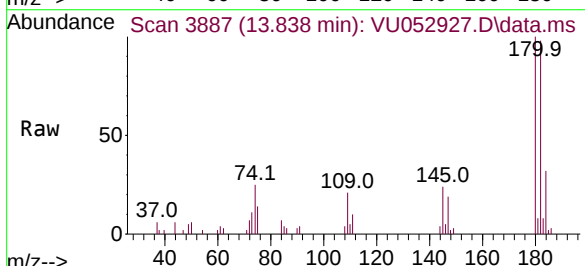
Ion Ratio Lower Upper

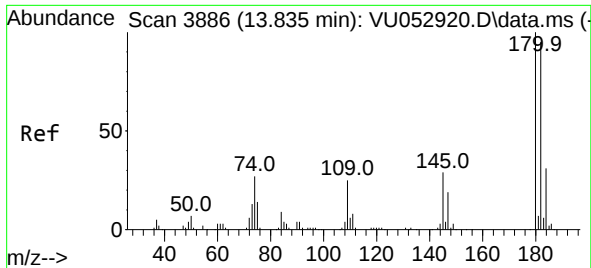
180 100

182 94.5 77.0 115.6

184 30.8 24.4 36.6

145 26.6 23.3 34.9





#70

1,2,4-trichlorobenzene

Concen: 4.319 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.003 min

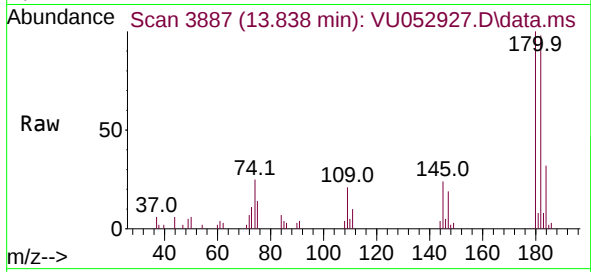
Lab File: VU052927.D

Acq: 02 Feb 2023 15:48

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 9663

Ion Ratio Lower Upper

180 100

182 94.5 78.2 117.2

145 26.6 23.4 35.2

