

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102023\  
 Data File : VU055831.D  
 Acq On : 20 Oct 2023 14:39  
 Operator : MD/SY  
 Sample : 04948-04  
 Misc : 5.07g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 23 01:07:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Oct 23 01:04:15 2023  
 Response via : Initial Calibration

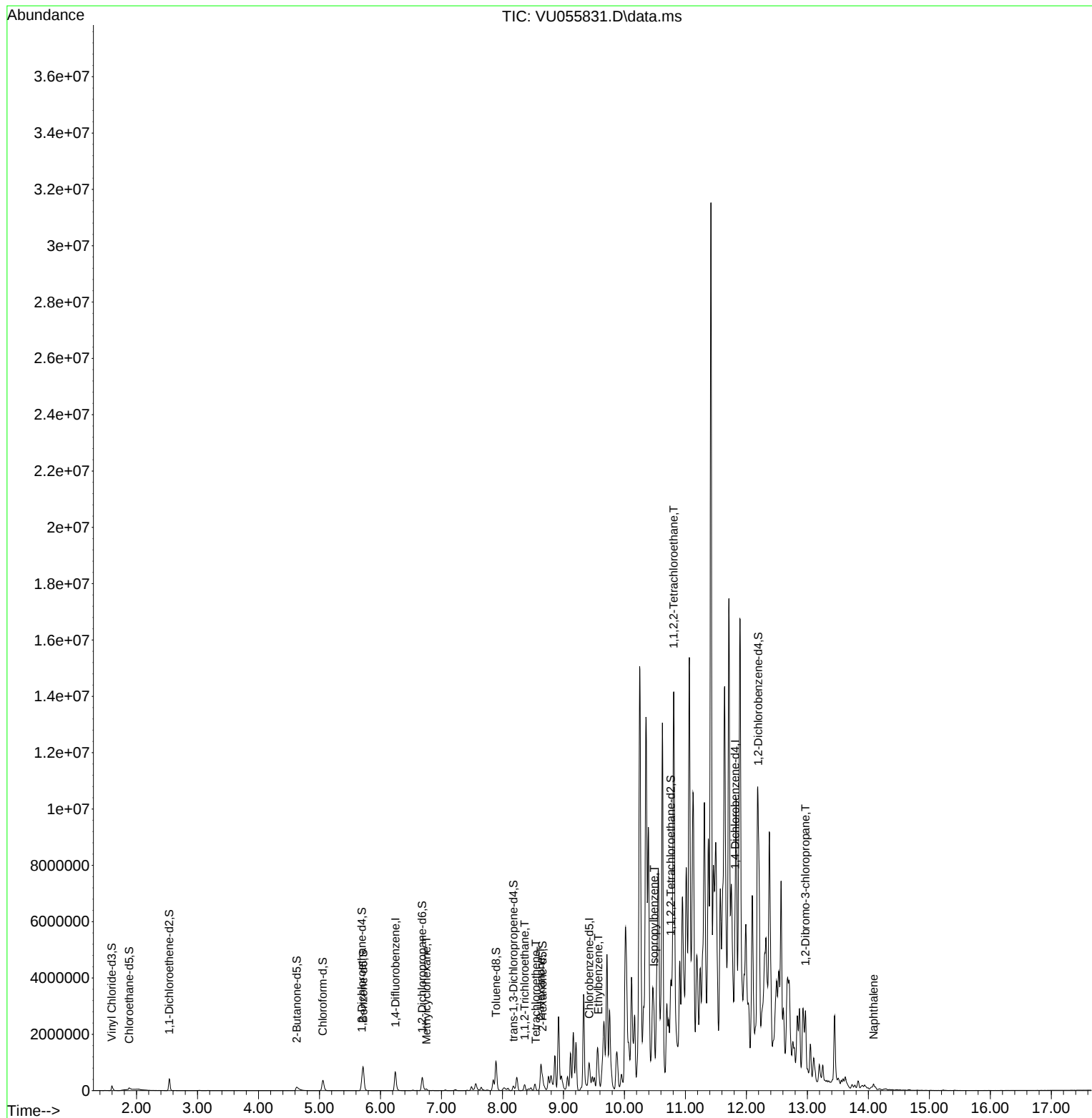
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245   | 114   | 598121   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.422   | 117   | 612565   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.814  | 152   | 359684   | 50.000   | ug/L   | 0.00     |
|                               |         |       |          |          |        |          |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596   | 65    | 173813   | 32.398   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 64.800%  |
| 7) Chloroethane-d5            | 1.879   | 69    | 65291    | 14.888   | ug/L   | -0.03    |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 29.780%# |
| 11) 1,1-Dichloroethene-d2     | 2.538   | 63    | 257093   | 26.876   | ug/L   | -0.03    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 53.760%# |
| 21) 2-Butanone-d5             | 4.628   | 46    | 286271   | 72.012   | ug/L   | 0.01     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 72.010%  |
| 24) Chloroform-d              | 5.055   | 84    | 388990   | 37.821   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 75.640%  |
| 26) 1,2-Dichloroethane-d4     | 5.695   | 65    | 256705   | 40.550   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 81.100%  |
| 32) Benzene-d6                | 5.718   | 84    | 765867   | 39.076   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 78.160%  |
| 36) 1,2-Dichloropropane-d6    | 6.685   | 67    | 246981   | 39.805   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 79.620%  |
| 41) Toluene-d8                | 7.894   | 98    | 706949   | 39.946   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 79.900%# |
| 43) trans-1,3-Dichloroprop... | 8.181   | 79    | 116732   | 39.165   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 78.320%  |
| 47) 2-Hexanone-d5             | 8.656   | 63    | 186745   | 76.559   | ug/L   | 0.03     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 76.560%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.762  | 84    | 389318   | 40.764   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 81.520%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.193  | 152   | 326064   | 45.682   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.360%  |
|                               |         |       |          |          |        |          |
| Target Compounds              |         |       |          |          |        | Qvalue   |
| 35) Methylcyclohexane         | 6.753   | 83    | 21939    | 2.854    | ug/L # | 87       |
| 45) 1,1,2-Trichloroethane     | 8.364   | 97    | 83616    | 15.904   | ug/L # | 19       |
| 46) Tetrachloroethene         | 8.550   | 164   | 5778     | 1.523    | ug/L   | 94       |
| 48) 2-Hexanone                | 8.631   | 43    | 320964   | 51.226   | ug/L # | 22       |
| 52) Ethylbenzene              | 9.573   | 91    | 335441   | 15.017   | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.807  | 83    | 1134506  | 126.019  | ug/L # | 38       |
| 61) Isopropylbenzene          | 10.486  | 105   | 874080   | 38.981   | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.968  | 75    | 10252    | 4.393    | ug/L # | 11       |
| 71) Naphthalene               | 14.087  | 128   | 161821   | 8.845    | ug/L   | 98       |
| -----                         |         |       |          |          |        |          |

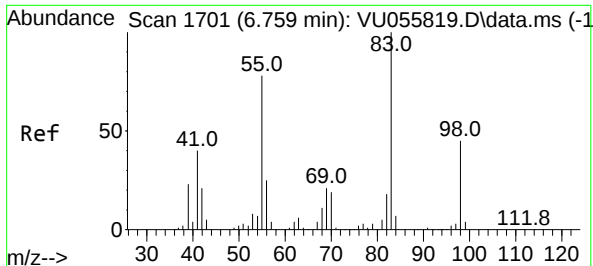
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : 04948-04  
Misc : 5.07g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Oct 23 01:07:35 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101023WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Oct 23 01:04:15 2023  
Response via : Initial Calibration

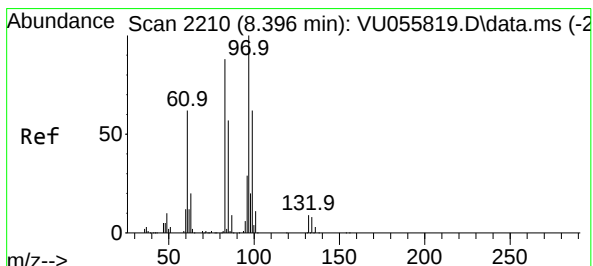
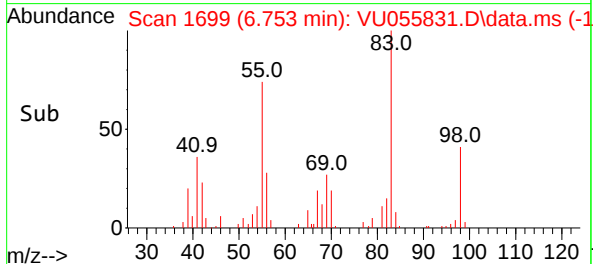
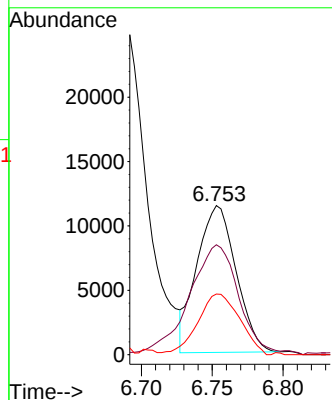
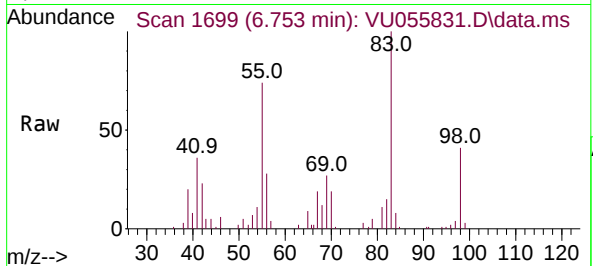




#35  
Methylcyclohexane  
Concen: 2.854 ug/L  
RT: 6.753 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VU055831.D  
Acq: 20 Oct 2023 14:39

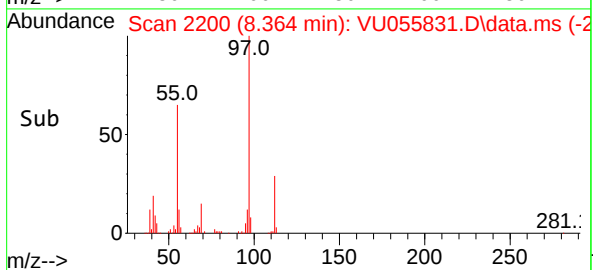
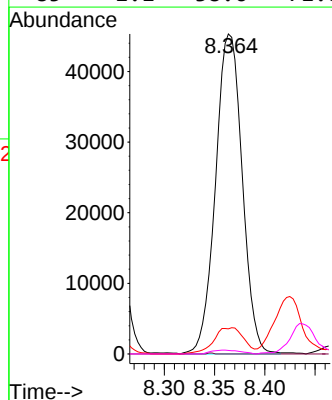
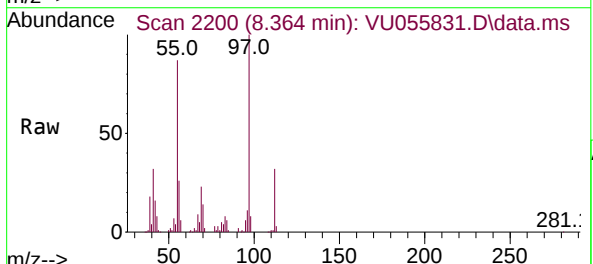
Instrument :  
MSVOA\_U  
ClientSampleId :

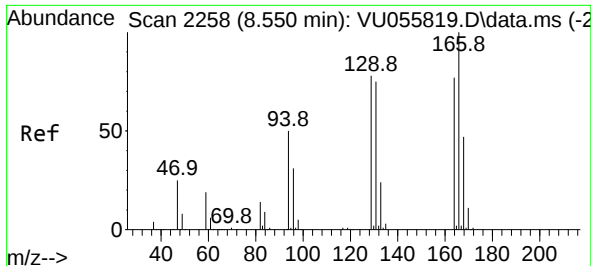
Tgt Ion: 83 Resp: 21939  
Ion Ratio Lower Upper  
83 100  
55 94.3 61.2 91.8#  
98 44.4 35.8 53.6



#45  
1,1,2-Trichloroethane  
Concen: 15.904 ug/L  
RT: 8.364 min Scan# 2200  
Delta R.T. -0.032 min  
Lab File: VU055831.D  
Acq: 20 Oct 2023 14:39

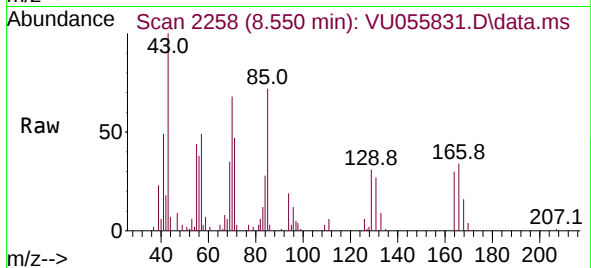
Tgt Ion: 97 Resp: 83616  
Ion Ratio Lower Upper  
97 100  
99 0.0 44.4 82.5#  
83 7.8 60.4 112.2#  
85 1.1 38.6 71.8#



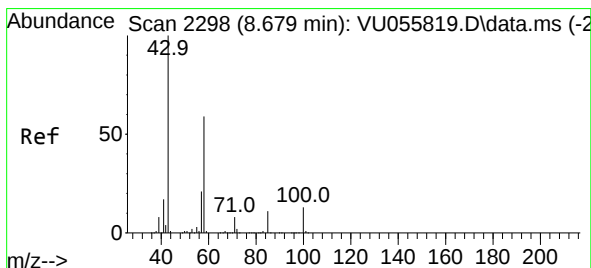
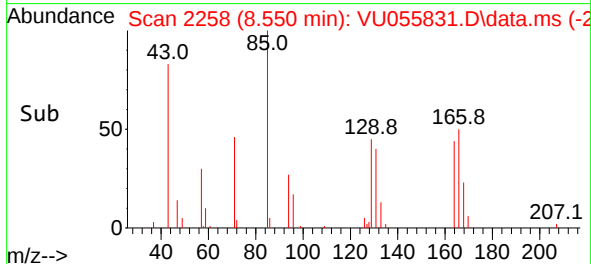
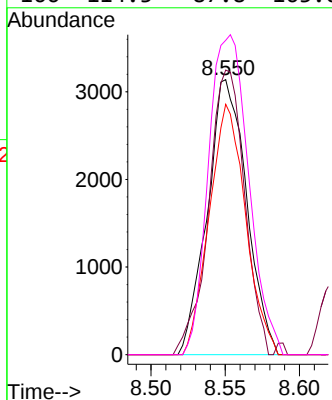


#46  
Tetrachloroethene  
Concen: 1.523 ug/L  
RT: 8.550 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU055831.D  
Acq: 20 Oct 2023 14:39

Instrument :  
MSVOA\_U  
ClientSampleId :

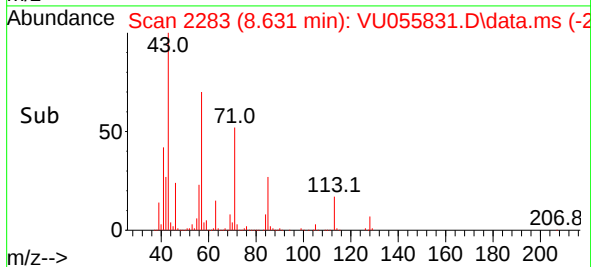
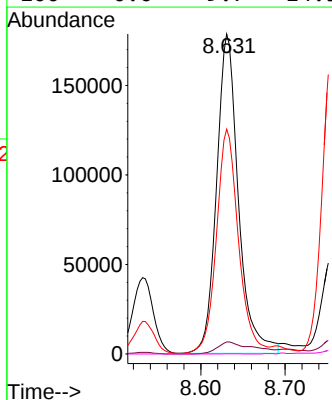
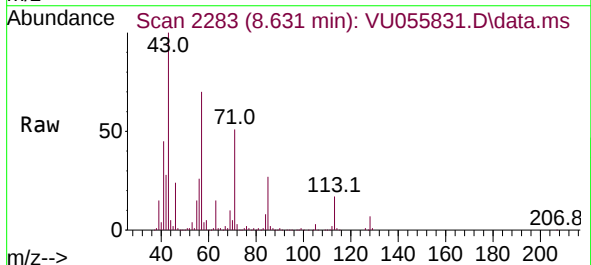


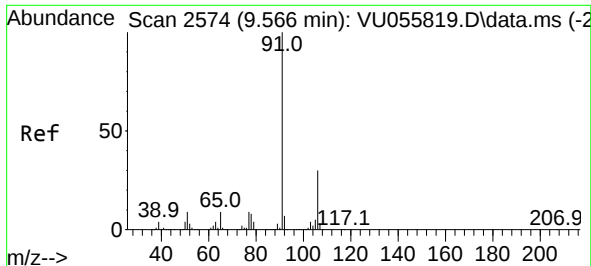
Tgt Ion:164 Resp: 5778  
Ion Ratio Lower Upper  
164 100  
129 103.5 70.7 131.3  
131 91.0 65.9 122.5  
166 114.3 87.8 163.0



#48  
2-Hexanone  
Concen: 51.226 ug/L  
RT: 8.631 min Scan# 2283  
Delta R.T. -0.048 min  
Lab File: VU055831.D  
Acq: 20 Oct 2023 14:39

Tgt Ion: 43 Resp: 320964  
Ion Ratio Lower Upper  
43 100  
58 0.0 45.2 67.8#  
57 70.8 16.1 24.1#  
100 0.0 9.7 14.5#

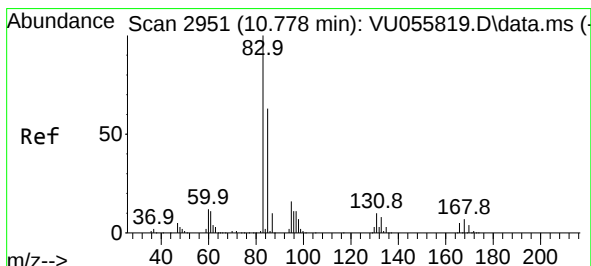
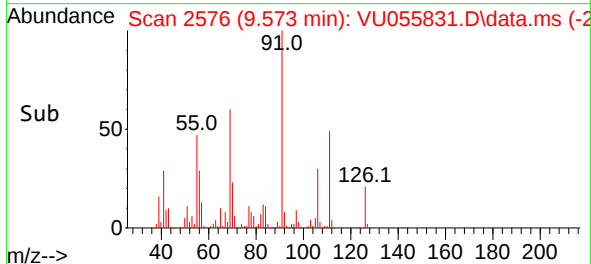
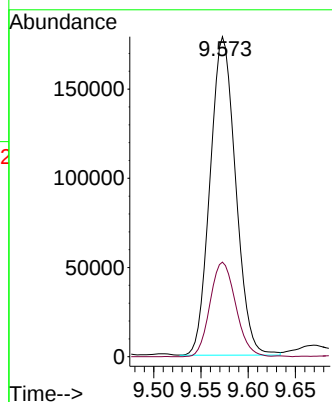
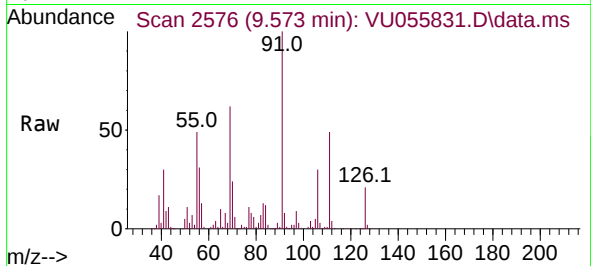




#52  
Ethylbenzene  
Concen: 15.017 ug/L  
RT: 9.573 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VU055831.D  
Acq: 20 Oct 2023 14:39

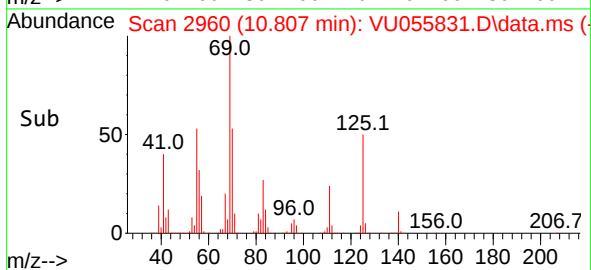
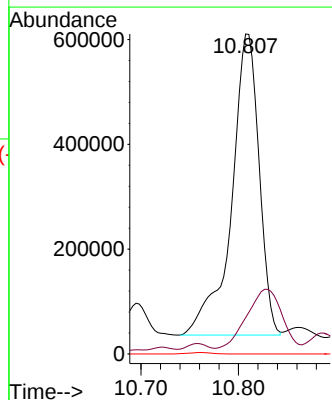
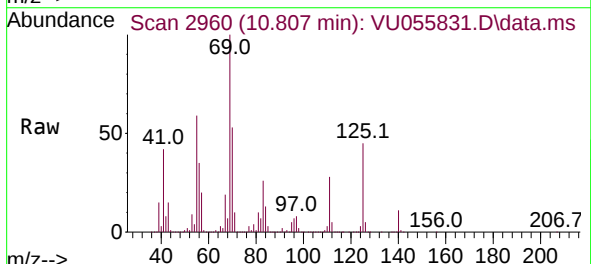
Instrument :  
MSVOA\_U  
ClientSampleId :

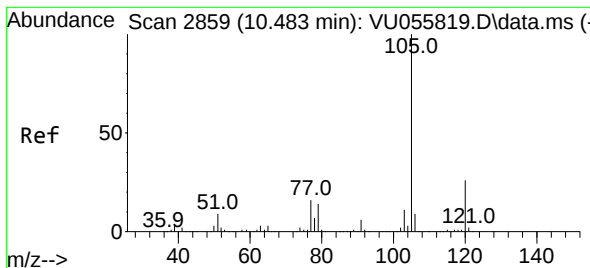
Tgt Ion: 91 Resp: 335441  
Ion Ratio Lower Upper  
91 100  
106 29.5 21.2 39.4



#57  
1,1,2,2-Tetrachloroethane  
Concen: 126.019 ug/L  
RT: 10.807 min Scan# 2960  
Delta R.T. 0.029 min  
Lab File: VU055831.D  
Acq: 20 Oct 2023 14:39

Tgt Ion: 83 Resp: 1134506  
Ion Ratio Lower Upper  
83 100  
85 11.4 44.9 83.5#  
131 0.0 7.3 10.9#





#61

Isopropylbenzene

Concen: 38.981 ug/L

RT: 10.486 min Scan# 2859

Delta R.T. 0.003 min

Lab File: VU055831.D

Acq: 20 Oct 2023 14:39

Instrument :

MSVOA\_U

ClientSampleId :

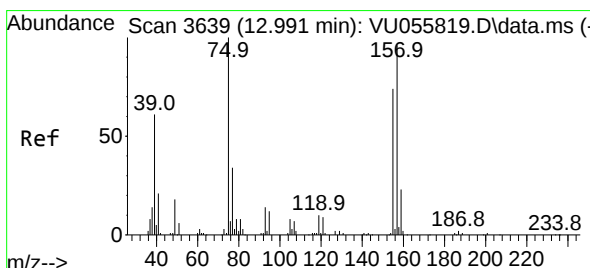
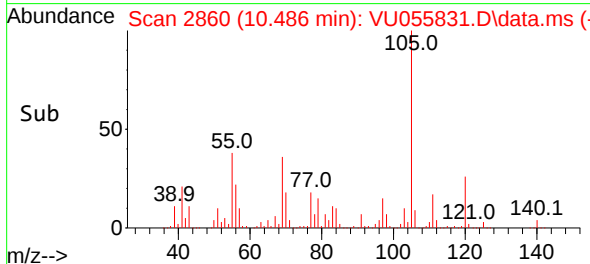
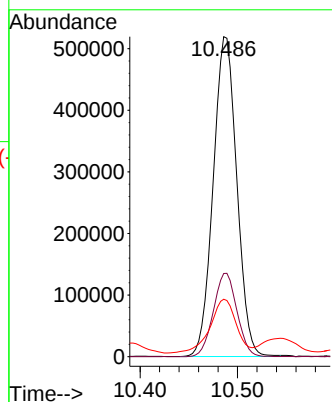
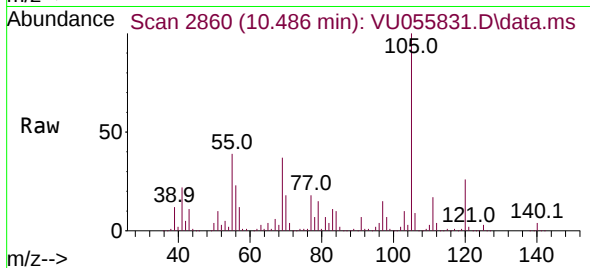
Tgt Ion:105 Resp: 874080

Ion Ratio Lower Upper

105 100

120 26.1 20.6 30.8

77 18.1 13.4 20.0



#68

1,2-Dibromo-3-chloropropane

Concen: 4.393 ug/L

RT: 12.968 min Scan# 3632

Delta R.T. -0.022 min

Lab File: VU055831.D

Acq: 20 Oct 2023 14:39

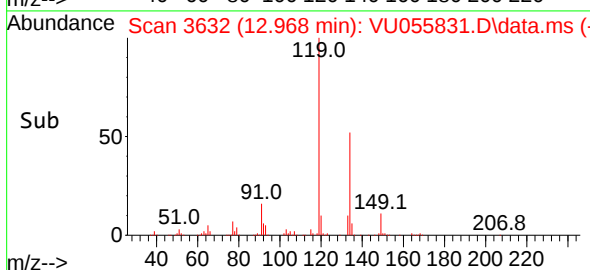
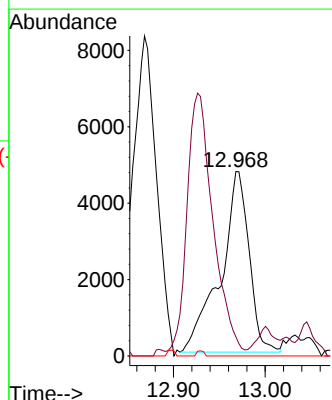
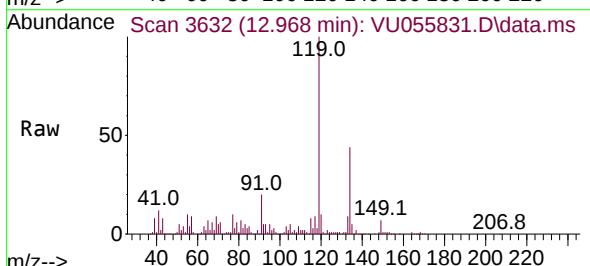
Tgt Ion: 75 Resp: 10252

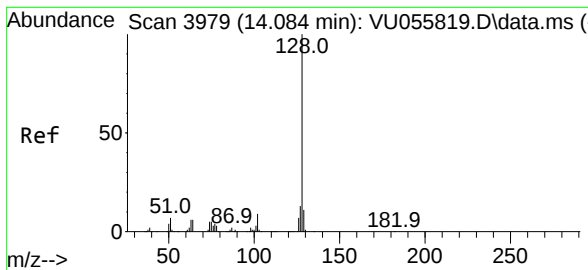
Ion Ratio Lower Upper

75 100

155 10.4 59.6 89.4#

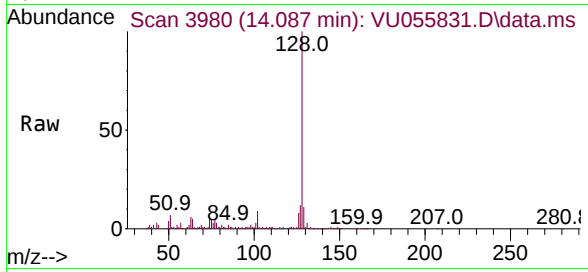
157 0.0 77.7 116.5#





#71  
Naphthalene  
Concen: 8.845 ug/L  
RT: 14.087 min Scan# 3979  
Delta R.T. 0.003 min  
Lab File: VU055831.D  
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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 161821 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 13.3  | 10.6  | 16.0   |
| 129      | 12.6  | 8.7   | 13.1   |

