

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121623\  
 Data File : VU056920.D  
 Acq On : 16 Dec 2023 12:26  
 Operator : MD/SY  
 Sample : 04696-01  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2023-07

Quant Time: Dec 16 23:45:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Dec 15 01:53:53 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
 Supervised By :Semsettin Yesilyurt 12/18/2023

| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| -----                         |        |                |          |        |          |          |
| Internal Standards            |        |                |          |        |          |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114            | 197748   | 5.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 9.415  | 117            | 207675   | 5.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152            | 88092    | 5.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65             | 79674    | 4.700  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 40 - 130 | Recovery | =      | 94.000%  |          |
| 7) Chloroethane-d5            | 1.908  | 69             | 65656    | 5.176  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 130 | Recovery | =      | 103.600% |          |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65             | 35118    | 4.842  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 125 | Recovery | =      | 96.800%  |          |
| 20) 2-Butanone-d5             | 4.621  | 46             | 194557   | 58.121 | ug/L     | 0.00     |
| Spiked Amount                 | 50.000 | Range 40 - 130 | Recovery | =      | 116.240% |          |
| 24) Chloroform-d              | 5.055  | 84             | 171945   | 5.357  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =      | 107.200% |          |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65             | 84207    | 5.544  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =      | 110.800% |          |
| 32) Benzene-d6                | 5.721  | 84             | 319580   | 4.961  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =      | 99.200%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67             | 104702   | 5.193  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 140 | Recovery | =      | 103.800% |          |
| 41) Toluene-d8                | 7.894  | 98             | 258917   | 4.497  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =      | 90.000%  |          |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79             | 37311    | 4.772  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 55 - 130 | Recovery | =      | 95.400%  |          |
| 46) 2-Hexanone-d5             | 8.627  | 63             | 145617   | 49.380 | ug/L     | 0.00     |
| Spiked Amount                 | 50.000 | Range 45 - 130 | Recovery | =      | 98.760%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84             | 77012    | 5.279  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 120 | Recovery | =      | 105.600% |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152            | 93051    | 5.373  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 80 - 120 | Recovery | =      | 107.400% |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        | Qvalue   |          |
| 2) Dichlorodifluoromethane    | 1.380  | 85             | 5476     | 0.264  | ug/L     | 96       |
| 3) Chloromethane              | 1.515  | 50             | 9263     | 0.455  | ug/L     | 91       |
| 5) Vinyl chloride             | 1.599  | 62             | 5893     | 0.291  | ug/L #   | 65       |
| 6) Bromomethane               | 1.853  | 94             | 3553     | 0.298  | ug/L     | 76       |
| 8) Chloroethane               | 1.930  | 64             | 4214     | 0.356  | ug/L     | 95       |
| 9) Trichlorofluoromethane     | 2.133  | 101            | 7961     | 0.279  | ug/L     | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101            | 6136     | 0.351  | ug/L     | 86       |
| 12) 1,1-Dichloroethene        | 2.573  | 96             | 5134     | 0.320  | ug/L #   | 1        |
| 14) Carbon disulfide          | 2.792  | 76             | 14384    | 0.258  | ug/L     | 99       |
| 15) Methyl Acetate            | 2.956  | 43             | 1922m    | 0.346  | ug/L     |          |
| 16) Methylene chloride        | 3.039  | 84             | 6259     | 0.358  | ug/L     | 92       |
| 17) Methyl tert-butyl Ether   | 3.361  | 73             | 9326     | 0.262  | ug/L #   | 95       |
| 18) trans-1,2-Dichloroethene  | 3.354  | 96             | 4366     | 0.268  | ug/L     | 81       |
| 19) 1,1-Dichloroethane        | 3.859  | 63             | 8630     | 0.276  | ug/L     | 98       |
| 21) 2-Butanone                | 4.724  | 43             | 12540m   | 3.645  | ug/L     |          |
| 22) cis-1,2-Dichloroethene    | 4.657  | 96             | 4730     | 0.267  | ug/L     | 93       |
| 23) Bromochloromethane        | 4.968  | 128            | 2195     | 0.296  | ug/L     | 81       |
| 27) 1,2-Dichloroethane        | 5.795  | 62             | 5288     | 0.273  | ug/L     | 96       |
| 29) 1,1,1-Trichloroethane     | 5.313  | 97             | 7932     | 0.264  | ug/L     | 94       |

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 Sample : 04696-01  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2023-07

Quant Time: Dec 16 23:45:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Dec 15 01:53:53 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
 Supervised By :Semsettin Yesilyurt 12/18/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 30) Cyclohexane               | 5.383  | 56   | 6416     | 0.228 | ug/L   | 91       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 6817     | 0.261 | ug/L   | 95       |
| 33) Benzene                   | 5.772  | 78   | 18618    | 0.255 | ug/L   | 100      |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 4797     | 0.257 | ug/L # | 93       |
| 38) Bromodichloromethane      | 7.100  | 83   | 6151     | 0.258 | ug/L   | 94       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 6165     | 0.227 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.788  | 43   | 22878    | 2.581 | ug/L # | 87       |
| 42) Toluene                   | 7.968  | 91   | 21146    | 0.280 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 8.213  | 75   | 5452     | 0.244 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 8.399  | 97   | 3307     | 0.262 | ug/L   | 94       |
| 47) Tetrachloroethene         | 8.547  | 164  | 3355     | 0.239 | ug/L   | 93       |
| 48) 2-Hexanone                | 8.685  | 43   | 20339    | 3.221 | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.804  | 129  | 3797     | 0.262 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 8.923  | 107  | 3175     | 0.271 | ug/L # | 89       |
| 51) Chlorobenzene             | 9.447  | 112  | 12473    | 0.259 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.570  | 91   | 18097    | 0.217 | ug/L   | 95       |
| 53) m,p-Xylene                | 9.692  | 106  | 6804     | 0.219 | ug/L   | 90       |
| 54) o-Xylene                  | 10.094 | 106  | 6628     | 0.224 | ug/L   | 88       |
| 55) Styrene                   | 10.116 | 104  | 9109     | 0.188 | ug/L   | 91       |
| 57) 1,1,2,2-Tetrachloroethane | 10.772 | 83   | 4098     | 0.269 | ug/L # | 84       |
| 59) Bromoform                 | 10.290 | 173  | 1862     | 0.259 | ug/L # | 86       |
| 60) Isopropylbenzene          | 10.480 | 105  | 15588    | 0.224 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.820 | 75   | 2568     | 0.271 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 12026    | 0.211 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 10999    | 0.195 | ug/L   | 94       |
| 64) 1,3-Dichlorobenzene       | 11.746 | 146  | 9313     | 0.283 | ug/L   | 90       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 9057     | 0.279 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 9108     | 0.304 | ug/L   | 94       |
| 69) 1,3,5-Trichlorobenzene    | 13.846 | 180  | 4571     | 0.184 | ug/L   | 94       |

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

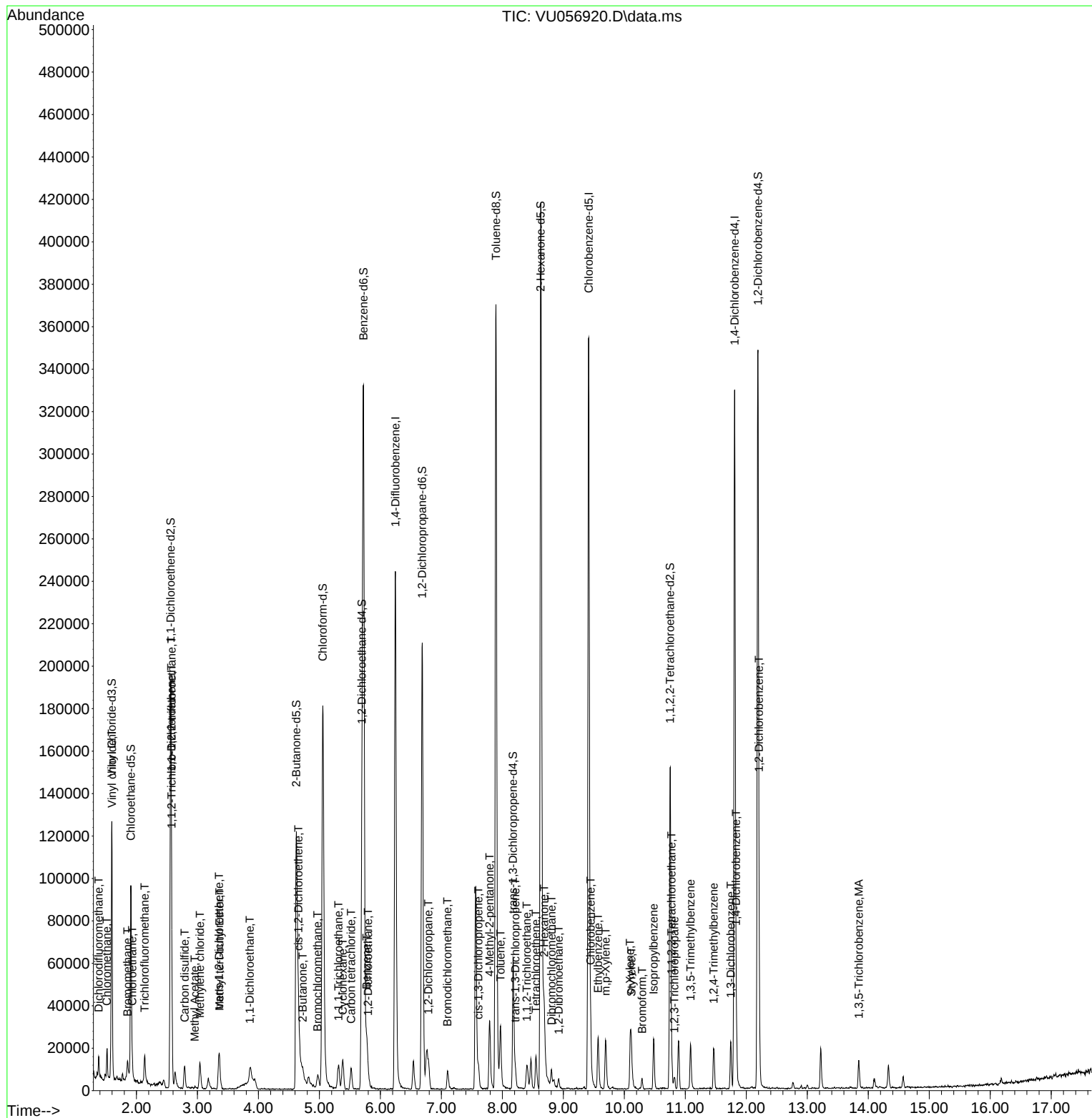
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Data File : VU056920.D  
Acq On : 16 Dec 2023 12:26  
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Sample : 04696-01  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 6 Sample Multiplier: 1

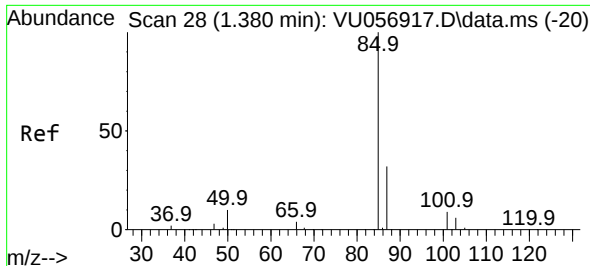
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07

Quant Time: Dec 16 23:45:59 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
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Manual Integrations  
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Supervised By :Semsettin Yesilyurt 12/18/2023





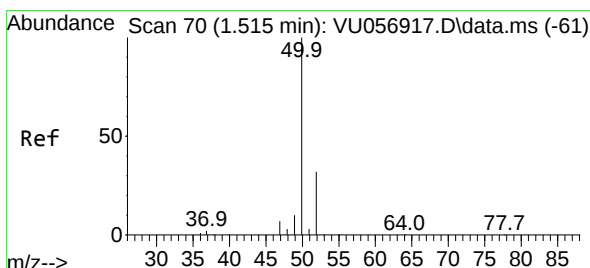
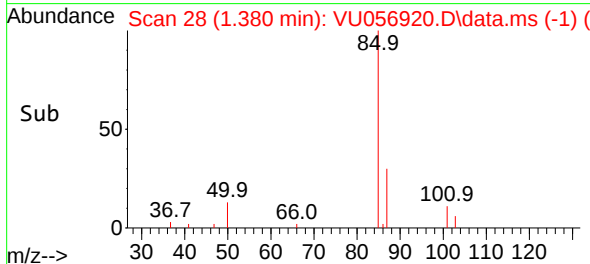
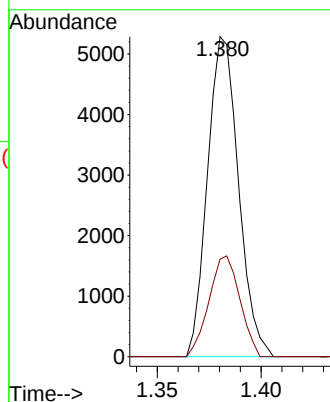
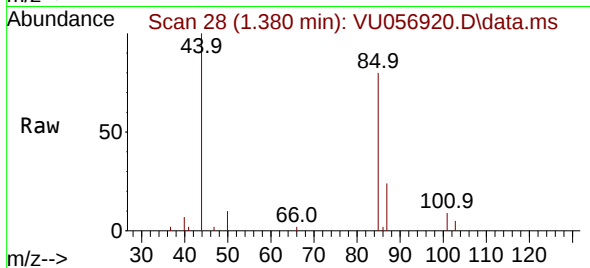
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 Dichlorodifluoromethane  
 Concen: 0.264 ug/L  
 RT: 1.380 min Scan# 28  
 Delta R.T. 0.000 min  
 Lab File: VU056920.D  
 Acq: 16 Dec 2023 12:26

Instrument : MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2023-07

Tgt Ion: 85 Resp: 5470  
 Ion Ratio Lower Upper  
 85 100  
 87 31.3 26.8 40.2

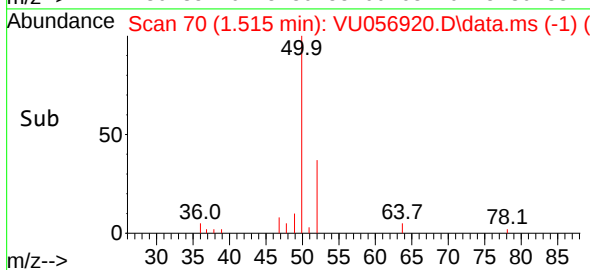
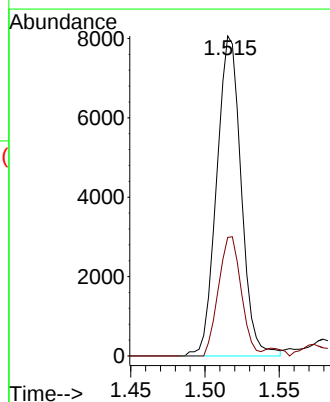
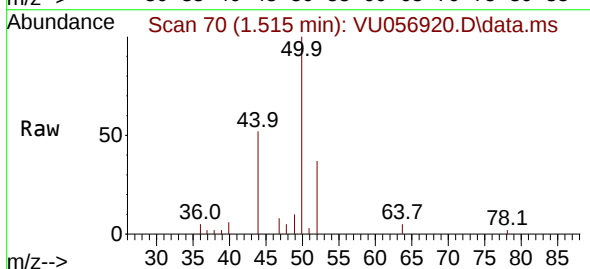
Manual Integrations  
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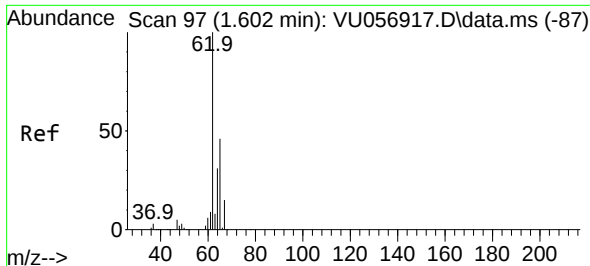
Reviewed By :Mahesh Dadoda 12/18/2023  
 Supervised By :Semsettin Yesilyurt 12/18/2023



#3  
 Chloromethane  
 Concen: 0.455 ug/L  
 RT: 1.515 min Scan# 70  
 Delta R.T. 0.000 min  
 Lab File: VU056920.D  
 Acq: 16 Dec 2023 12:26

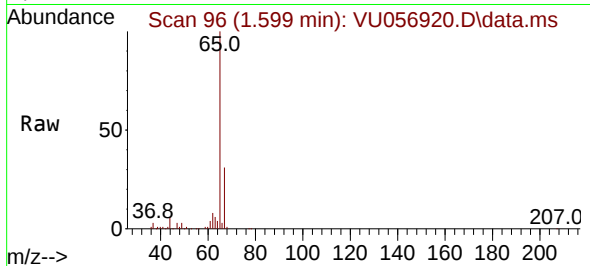
Tgt Ion: 50 Resp: 9263  
 Ion Ratio Lower Upper  
 50 100  
 52 37.1 22.5 41.7





#5  
 Vinyl chloride  
 Concen: 0.291 ug/L  
 RT: 1.599 min Scan# 90  
 Delta R.T. -0.003 min  
 Lab File: VU056920.D  
 Acq: 16 Dec 2023 12:26

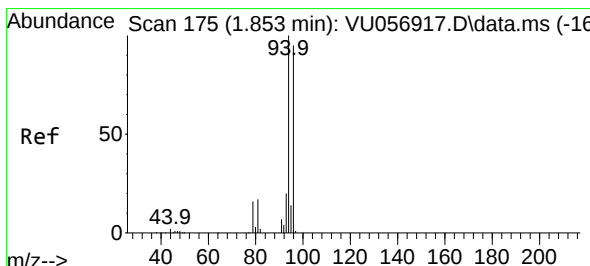
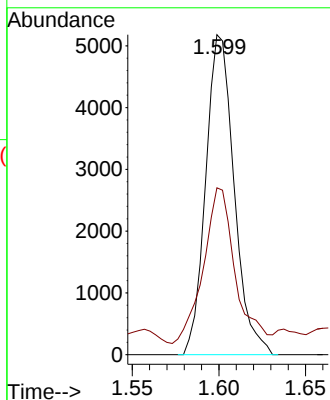
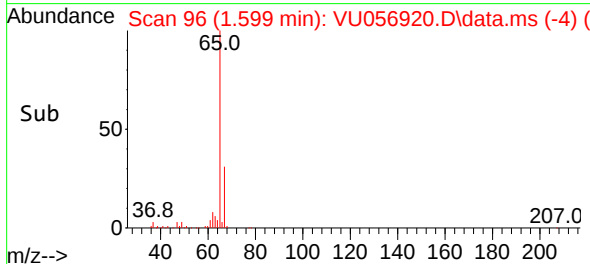
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2023-07



Tgt Ion: 62 Resp: 589  
 Ion Ratio Lower Upper  
 62 100  
 64 52.1 22.8 42.4

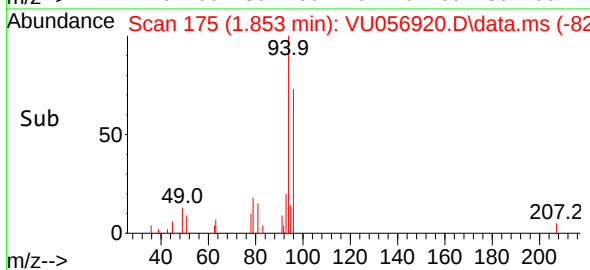
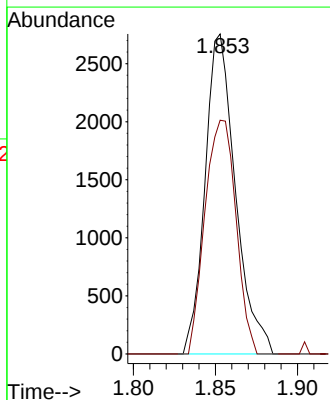
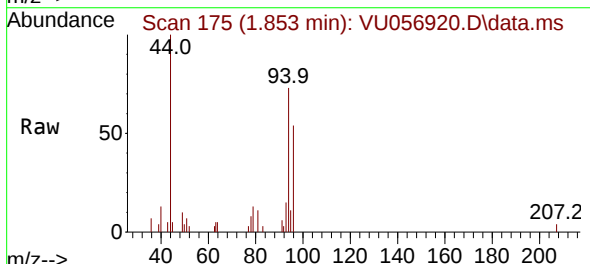
Manual Integrations  
 APPROVED

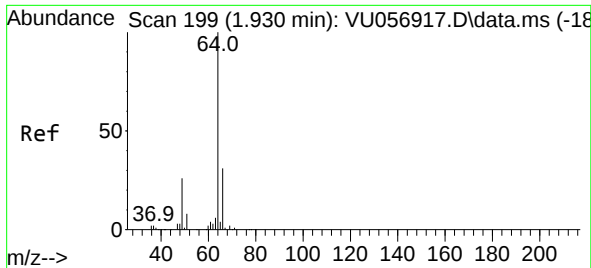
Reviewed By :Mahesh Dadoda 12/18/2023  
 Supervised By :Semsettin Yesilyurt 12/18/2023



#6  
 Bromomethane  
 Concen: 0.298 ug/L  
 RT: 1.853 min Scan# 175  
 Delta R.T. 0.000 min  
 Lab File: VU056920.D  
 Acq: 16 Dec 2023 12:26

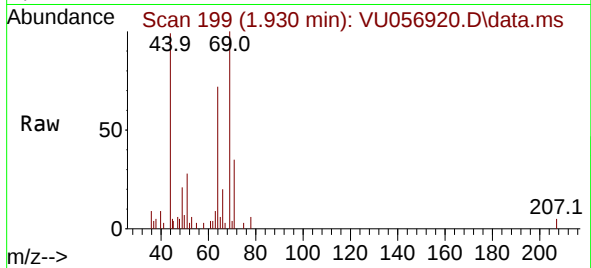
Tgt Ion: 94 Resp: 3553  
 Ion Ratio Lower Upper  
 94 100  
 96 73.0 67.8 125.8





#8  
Chloroethane  
Concen: 0.356 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

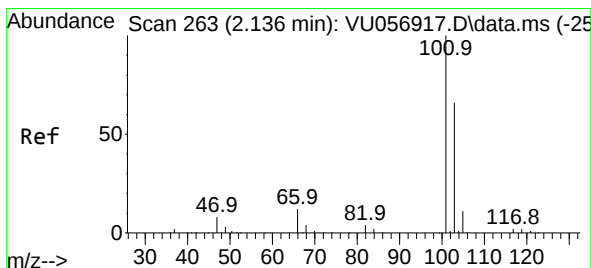
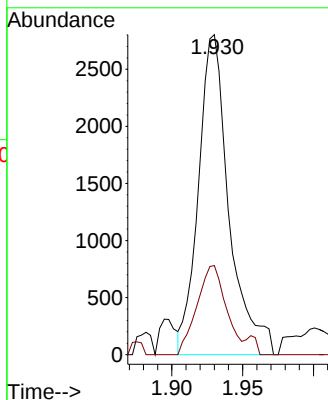
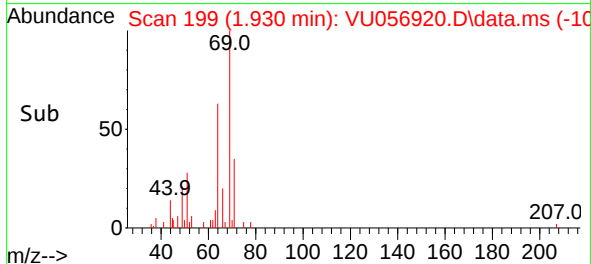
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT4-2023-07



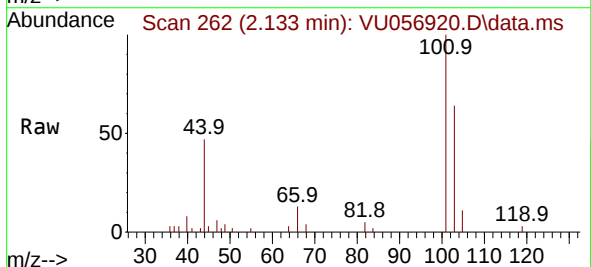
Tgt Ion: 64 Resp: 4214  
Ion Ratio Lower Upper  
64 100  
66 27.9 21.4 39.8

Manual Integrations  
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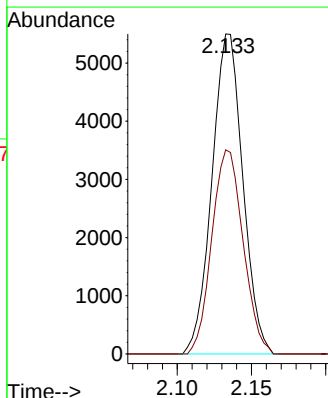
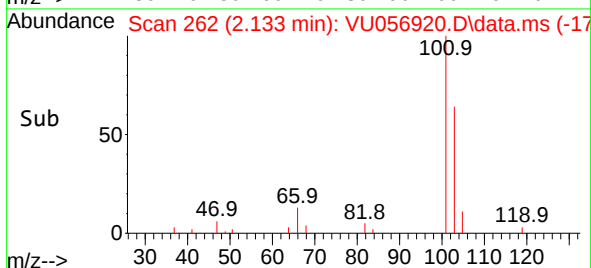
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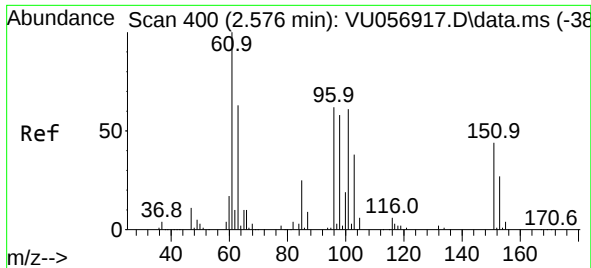


#9  
Trichlorofluoromethane  
Concen: 0.279 ug/L  
RT: 2.133 min Scan# 262  
Delta R.T. -0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26



Tgt Ion:101 Resp: 7961  
Ion Ratio Lower Upper  
101 100  
103 64.4 51.4 77.2





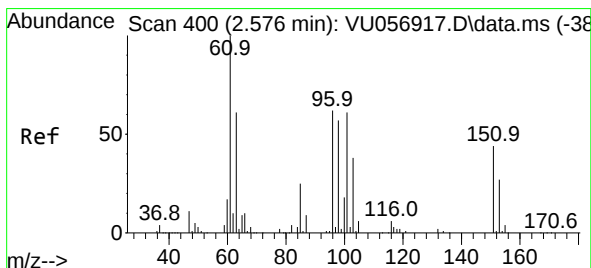
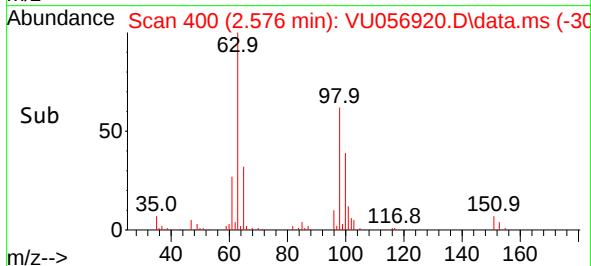
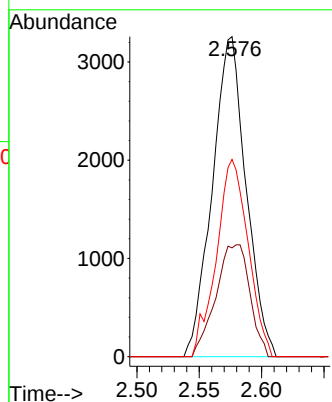
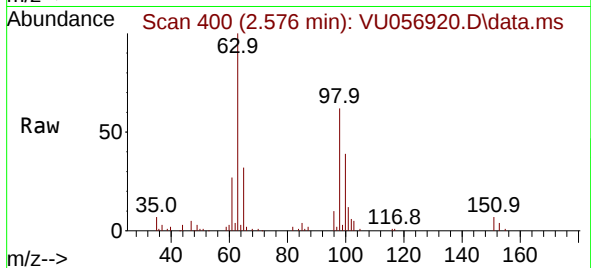
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1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.351 ug/L  
RT: 2.576 min Scan# 400  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07

Tgt Ion:101 Resp: 6130  
Ion Ratio Lower Upper  
101 100  
85 35.3 35.2 52.8  
151 58.1 56.0 84.0

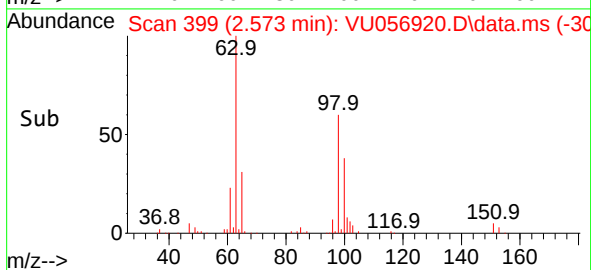
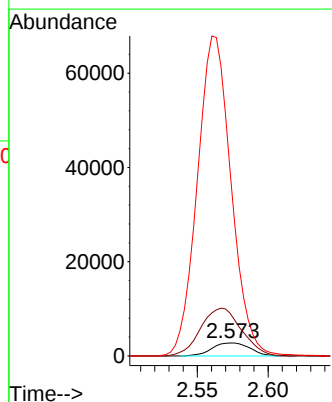
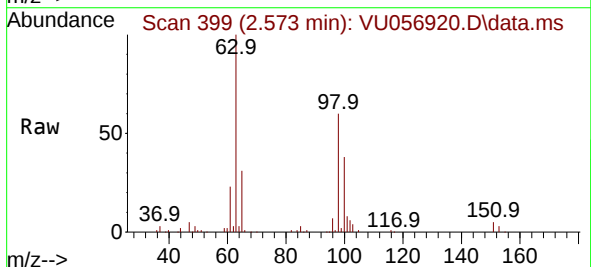
Manual Integrations  
APPROVED

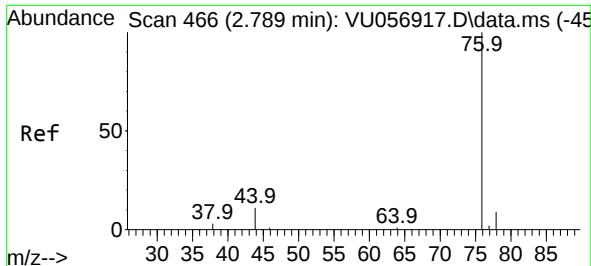
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#12  
1,1-Dichloroethene  
Concen: 0.320 ug/L  
RT: 2.573 min Scan# 399  
Delta R.T. -0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Tgt Ion: 96 Resp: 5134  
Ion Ratio Lower Upper  
96 100  
61 329.4 119.0 221.0#  
63 1433.3 88.7 164.7#





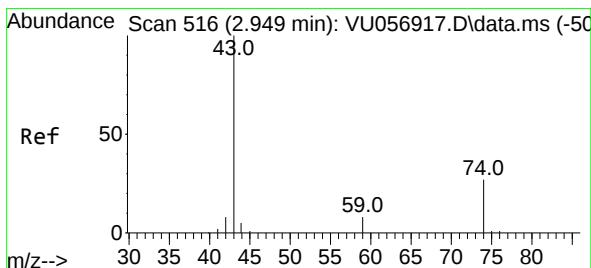
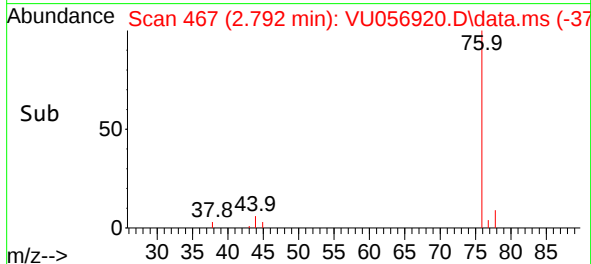
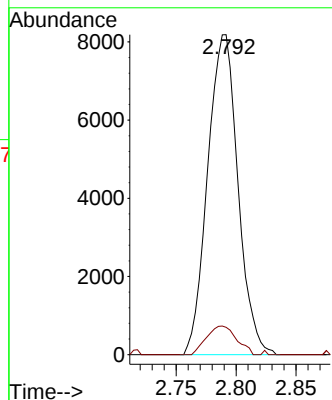
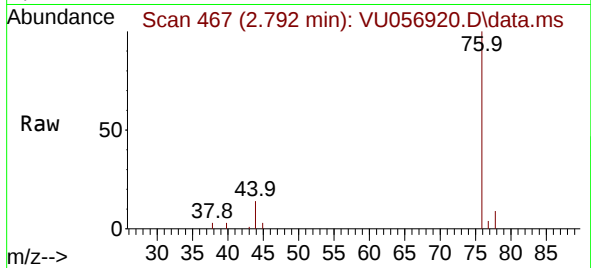
#14  
Carbon disulfide  
Concen: 0.258 ug/L  
RT: 2.792 min Scan# 467  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07

Tgt Ion: 76 Resp: 14384  
Ion Ratio Lower Upper  
76 100  
78 8.6 7.3 10.9

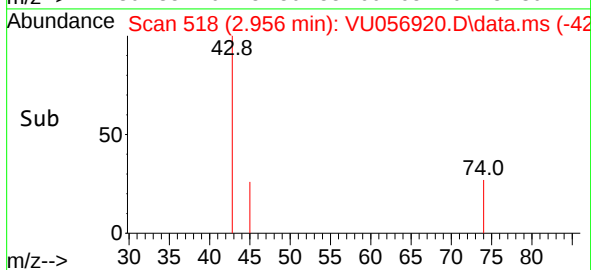
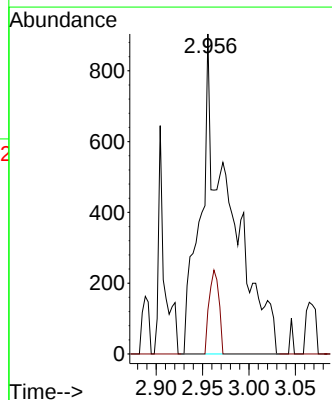
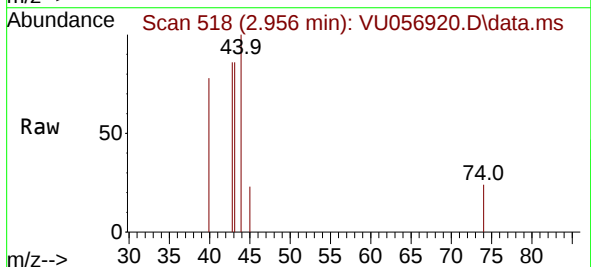
Manual Integrations  
APPROVED

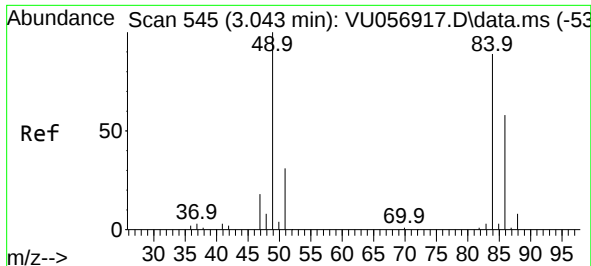
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#15  
Methyl Acetate  
Concen: 0.346 ug/L m  
RT: 2.956 min Scan# 518  
Delta R.T. 0.010 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

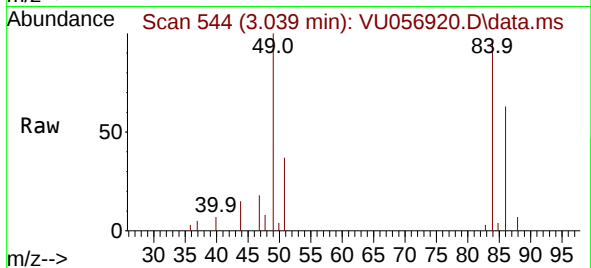
Tgt Ion: 43 Resp: 1922  
Ion Ratio Lower Upper  
43 100  
74 9.0 21.0 31.6#





#16  
Methylene chloride  
Concen: 0.358 ug/L  
RT: 3.039 min Scan# 545  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

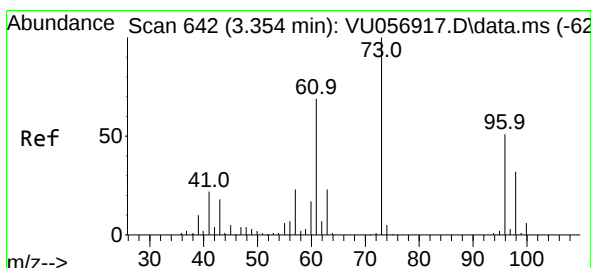
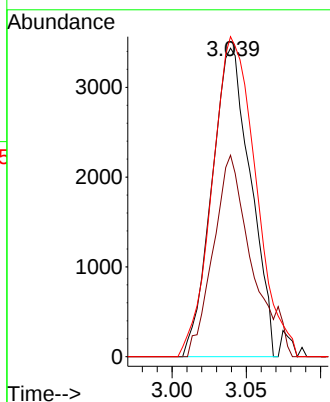
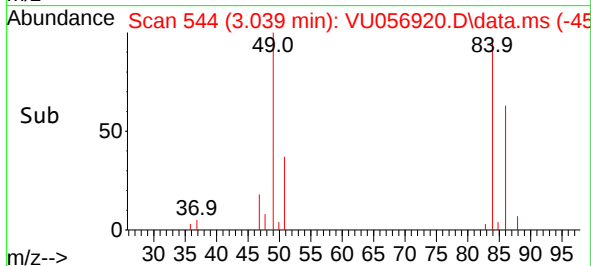
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion: 84 Resp: 6259  
Ion Ratio Lower Upper  
84 100  
86 65.3 43.6 81.0  
49 103.8 80.6 149.6

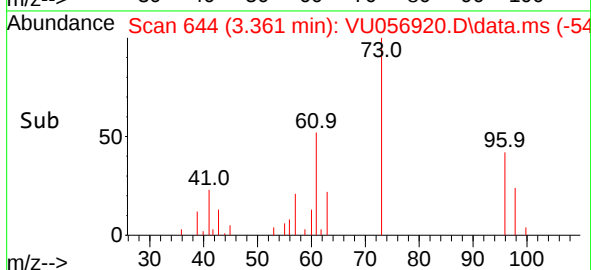
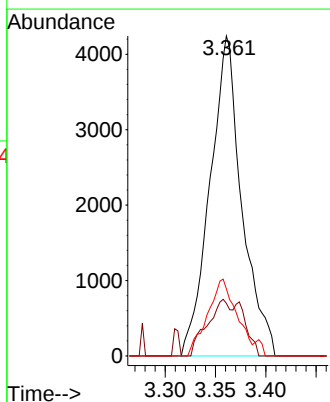
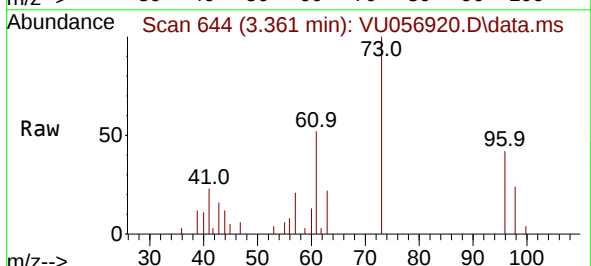
Manual Integrations  
APPROVED

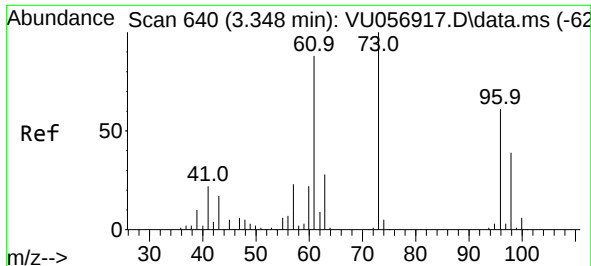
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#17  
Methyl tert-butyl Ether  
Concen: 0.262 ug/L  
RT: 3.361 min Scan# 644  
Delta R.T. 0.006 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

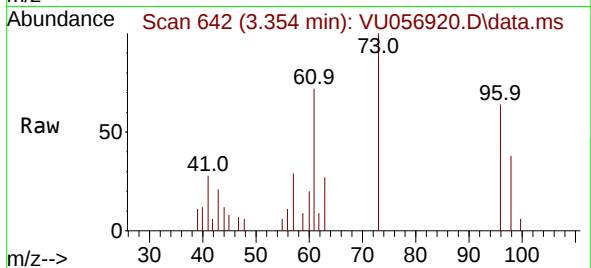
Tgt Ion: 73 Resp: 9326  
Ion Ratio Lower Upper  
73 100  
43 13.5 14.4 21.6#  
57 21.9 17.8 26.8





#18  
trans-1,2-Dichloroethene  
Concen: 0.268 ug/L  
RT: 3.354 min Scan# 640  
Delta R.T. 0.006 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

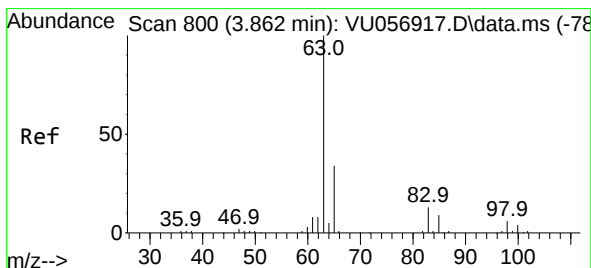
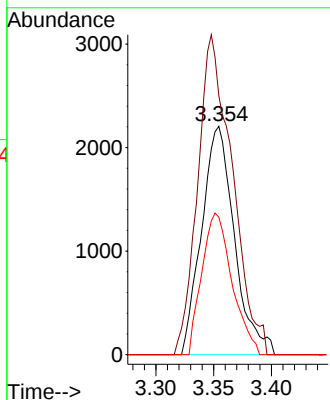
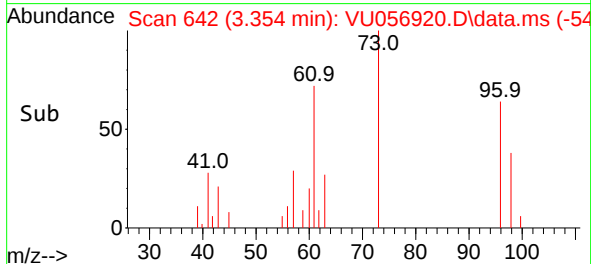
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



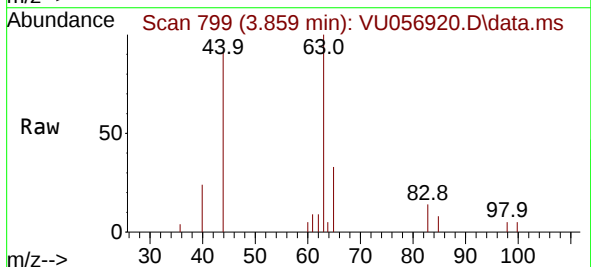
Tgt Ion: 96 Resp: 4360  
Ion Ratio Lower Upper  
96 100  
61 113.4 101.8 189.0  
98 60.2 43.0 79.8

Manual Integrations  
APPROVED

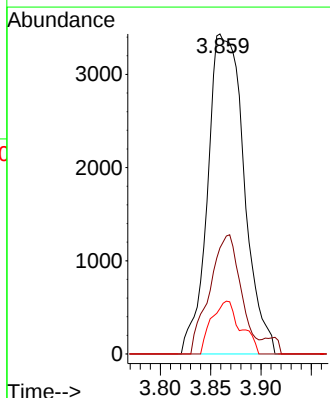
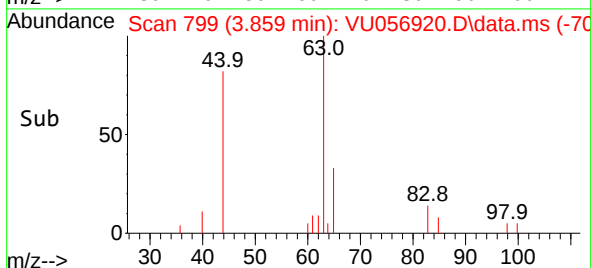
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023

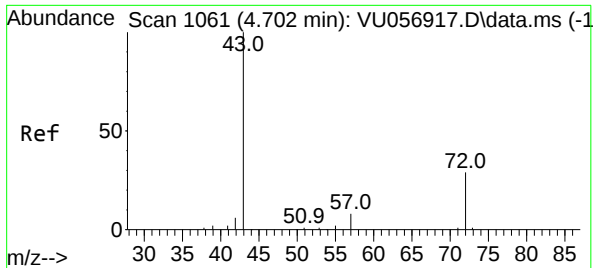


#19  
1,1-Dichloroethane  
Concen: 0.276 ug/L  
RT: 3.859 min Scan# 799  
Delta R.T. -0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26



Tgt Ion: 63 Resp: 8630  
Ion Ratio Lower Upper  
63 100  
65 31.6 22.9 42.5  
83 13.5 10.1 18.9





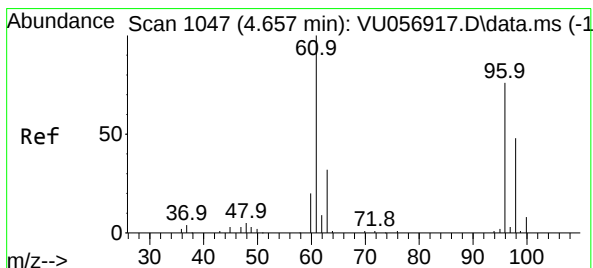
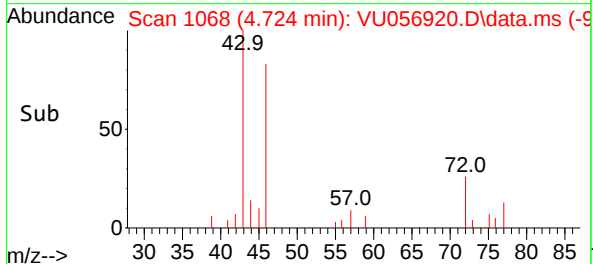
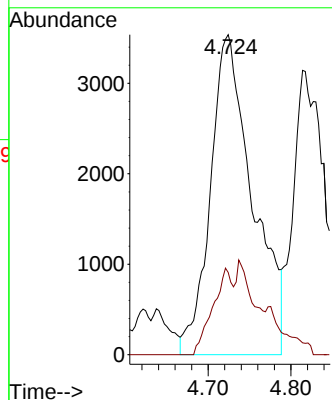
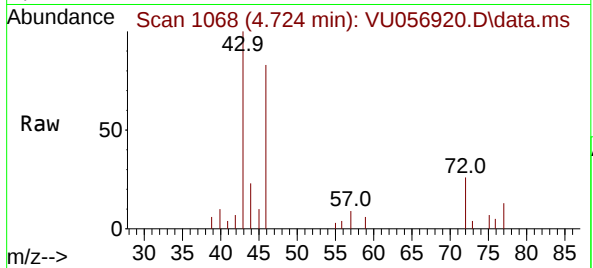
#21  
2-Butanone  
Concen: 3.645 ug/L m  
RT: 4.724 min Scan# 1068  
Delta R.T. 0.026 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07

Tgt Ion: 43 Resp: 12540  
Ion Ratio Lower Upper  
43 100  
72 5.9 14.6 43.8

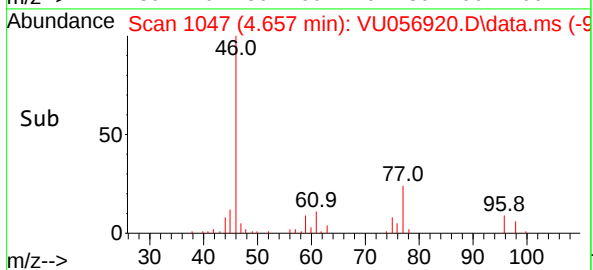
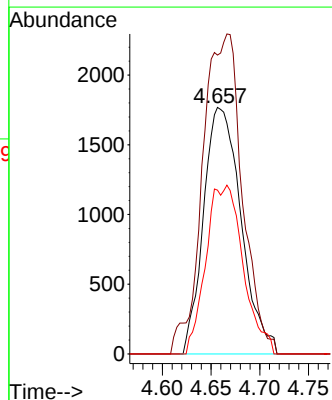
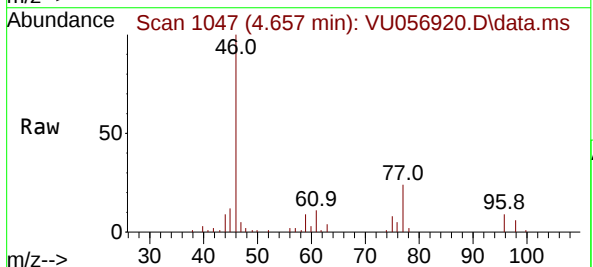
Manual Integrations  
APPROVED

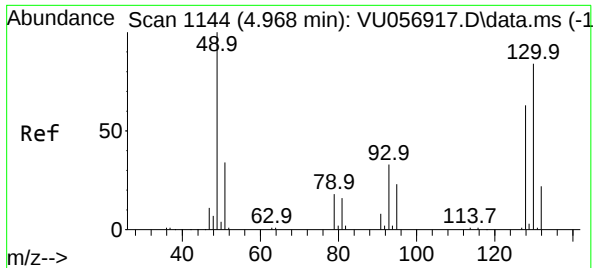
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#22  
cis-1,2-Dichloroethene  
Concen: 0.267 ug/L  
RT: 4.657 min Scan# 1047  
Delta R.T. -0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

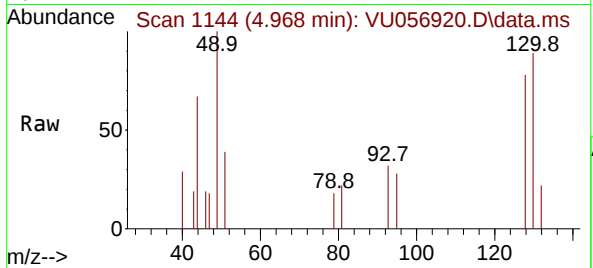
Tgt Ion: 96 Resp: 4730  
Ion Ratio Lower Upper  
96 100  
61 121.3 91.3 169.6  
98 66.5 44.2 82.0





#23  
Bromochloromethane  
Concen: 0.296 ug/L  
RT: 4.968 min Scan# 1144  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

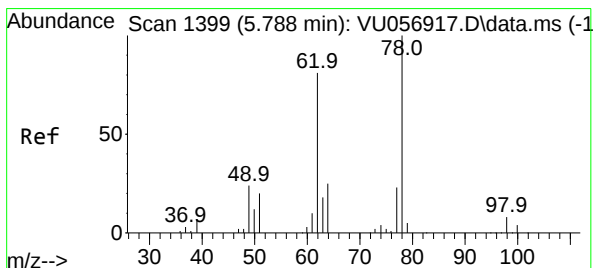
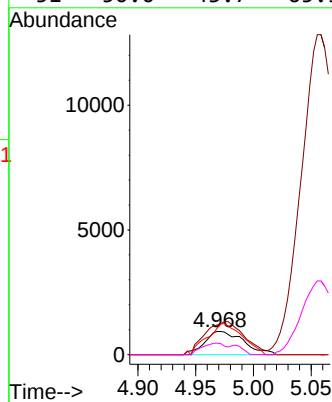
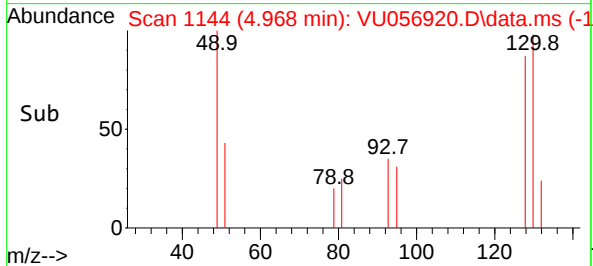
Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



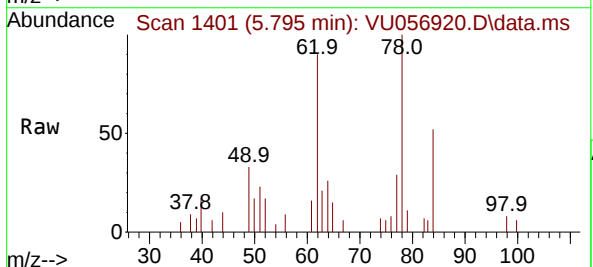
Tgt Ion: 128 Resp: 219  
Ion Ratio Lower Upper  
128 100  
49 127.5 113.8 211.3  
130 113.3 90.6 168.3  
51 50.0 43.7 65.5

Manual Integrations  
APPROVED

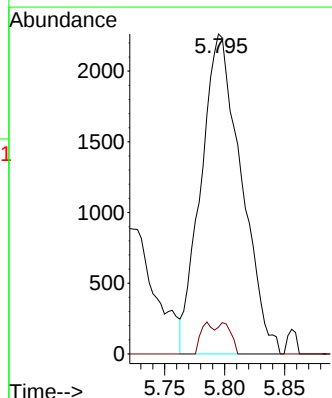
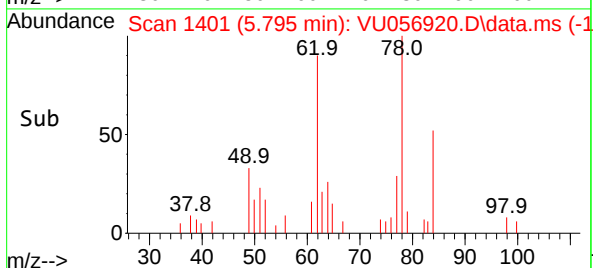
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023

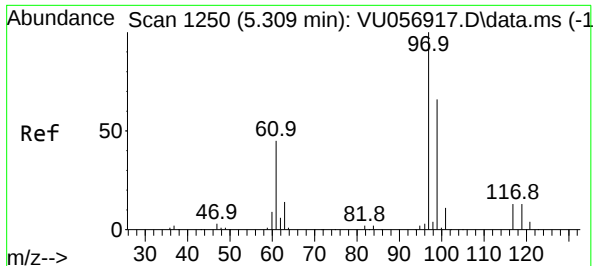


#27  
1,2-Dichloroethane  
Concen: 0.273 ug/L  
RT: 5.795 min Scan# 1401  
Delta R.T. 0.006 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26



Tgt Ion: 62 Resp: 5288  
Ion Ratio Lower Upper  
62 100  
98 8.4 7.8 11.6





#29

1,1,1-Trichloroethane

Concen: 0.264 ug/L

RT: 5.313 min Scan# 1251

Delta R.T. 0.003 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

Instrument :

MSVOA\_U

ClientSampleId :

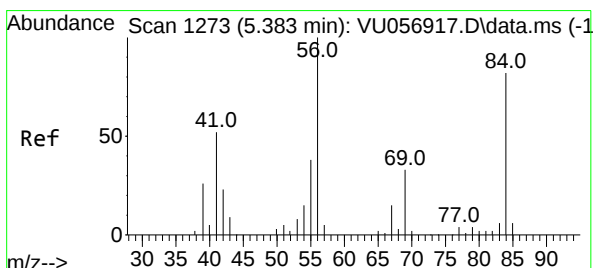
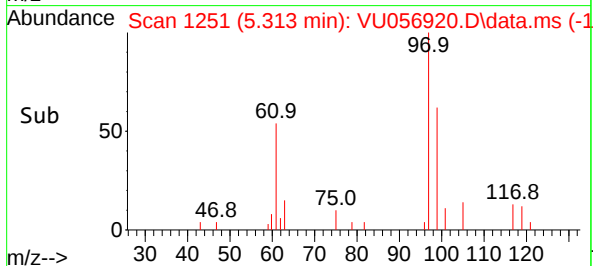
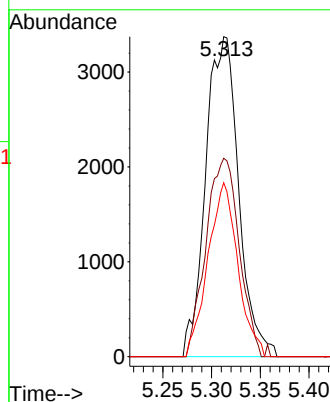
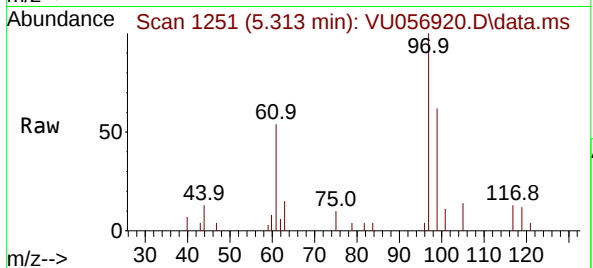
MDL-WATER-QT4-2023-07

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 793   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 62.5     | 52.5 78.7   |
| 61 49.2     | 34.2 51.2   |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#30

Cyclohexane

Concen: 0.228 ug/L

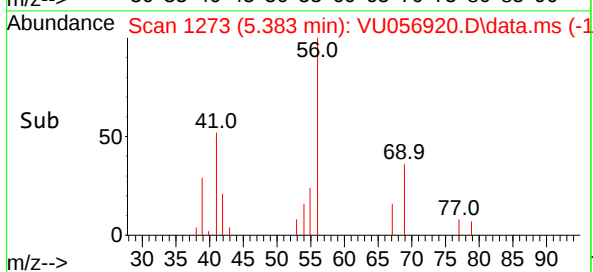
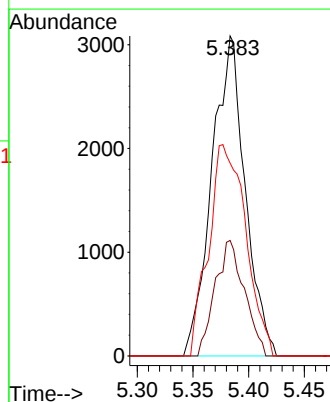
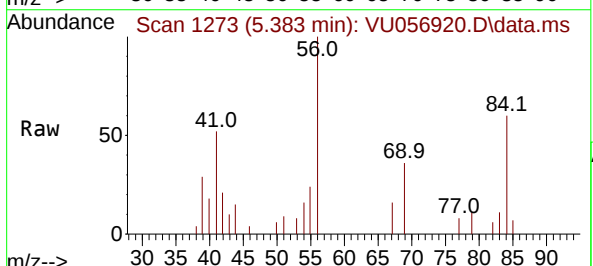
RT: 5.383 min Scan# 1273

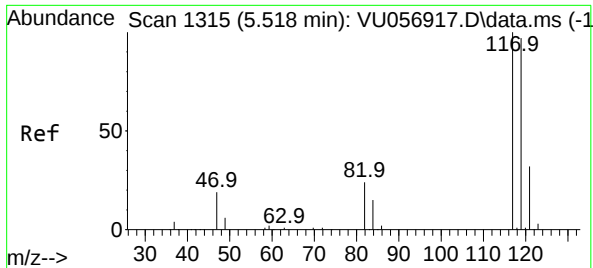
Delta R.T. 0.000 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

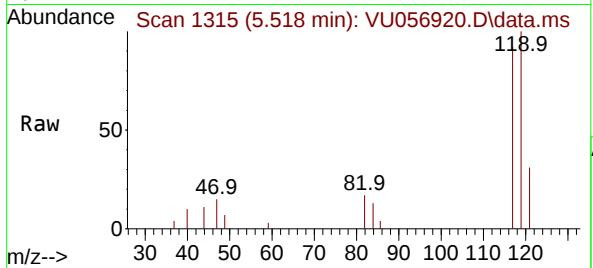
|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 6416  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 31.6     | 24.9 37.3   |
| 84 73.8     | 67.6 101.4  |





#31  
Carbon tetrachloride  
Concen: 0.261 ug/L  
RT: 5.518 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

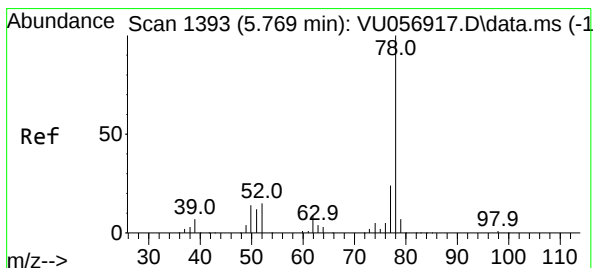
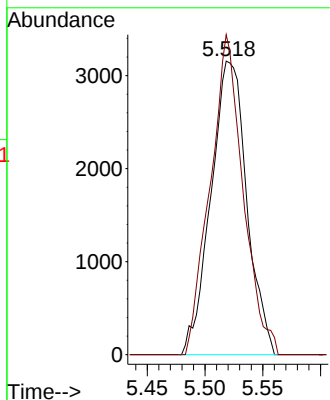
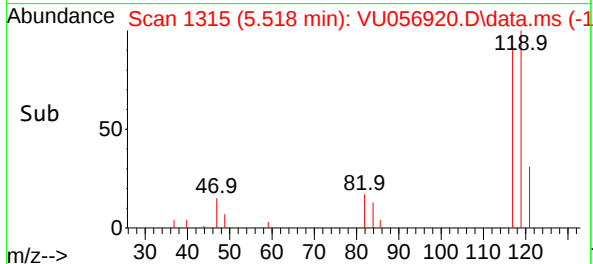
Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion:117 Resp: 681  
Ion Ratio Lower Upper  
117 100  
119 100.0 76.2 114.4

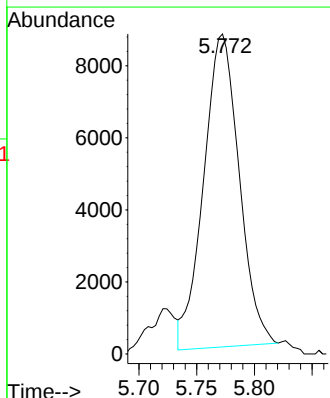
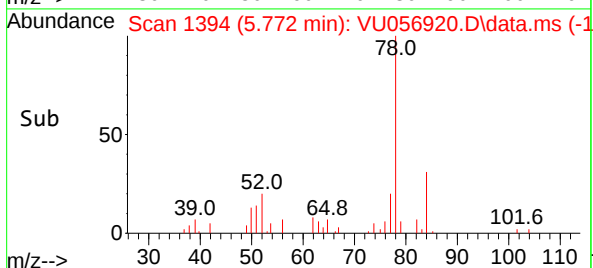
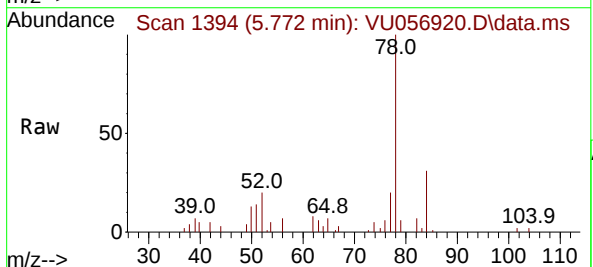
Manual Integrations  
APPROVED

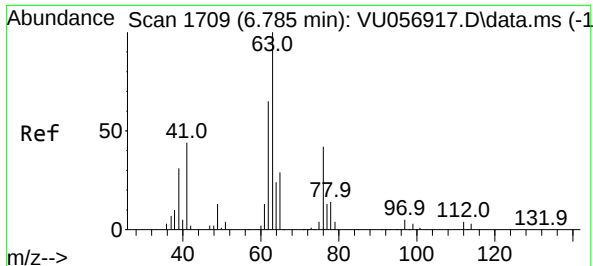
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#33  
Benzene  
Concen: 0.255 ug/L  
RT: 5.772 min Scan# 1394  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

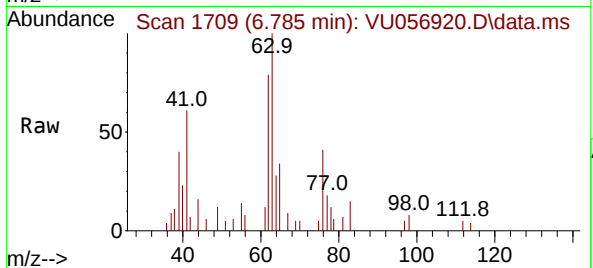
Tgt Ion: 78 Resp: 18618





#37  
1,2-Dichloropropane  
Concen: 0.257 ug/L  
RT: 6.785 min Scan# 1709  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

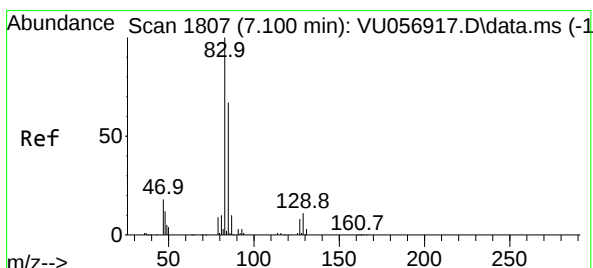
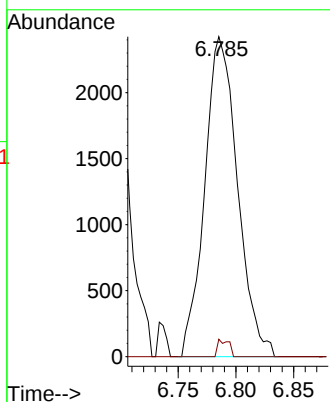
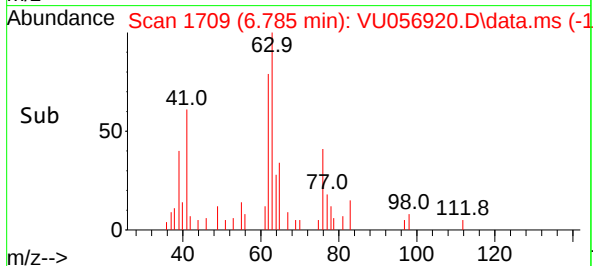
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion: 63 Resp: 479  
Ion Ratio Lower Upper  
63 100  
112 1.8 3.3 4.9

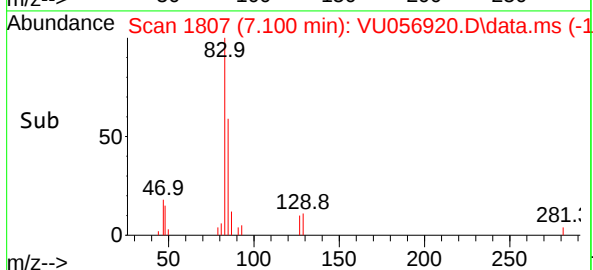
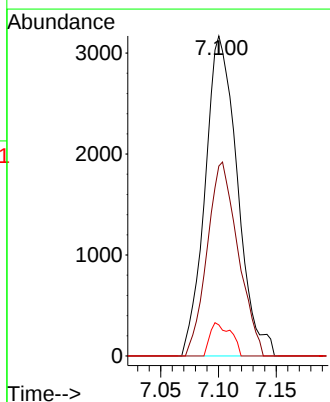
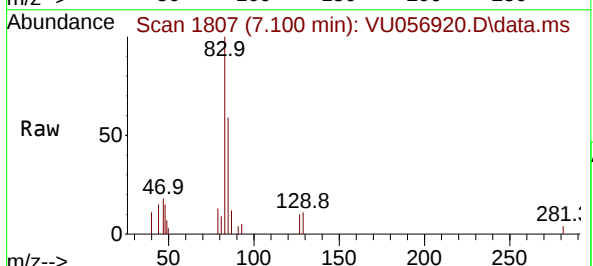
Manual Integrations  
APPROVED

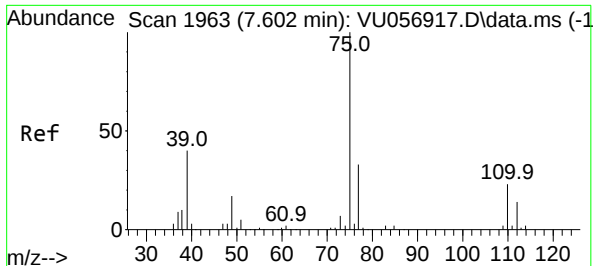
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#38  
Bromodichloromethane  
Concen: 0.258 ug/L  
RT: 7.100 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Tgt Ion: 83 Resp: 6151  
Ion Ratio Lower Upper  
83 100  
85 59.3 45.0 83.6  
127 9.7 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 0.227 ug/L

RT: 7.605 min Scan# 1963

Delta R.T. 0.000 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT4-2023-07

Tgt Ion: 75 Resp: 616

Ion Ratio Lower Upper

75 100

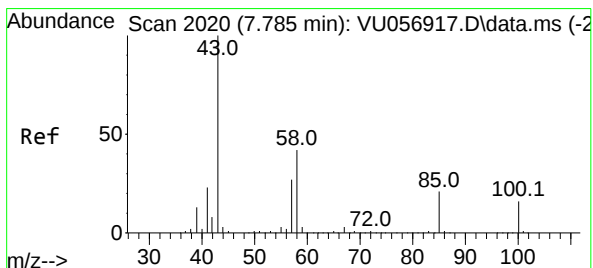
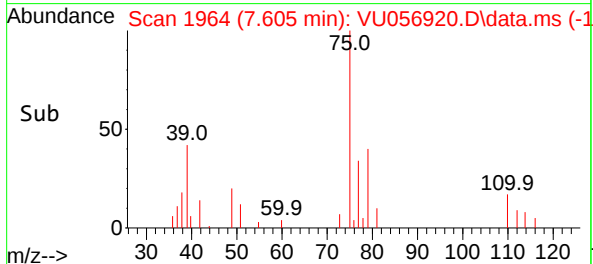
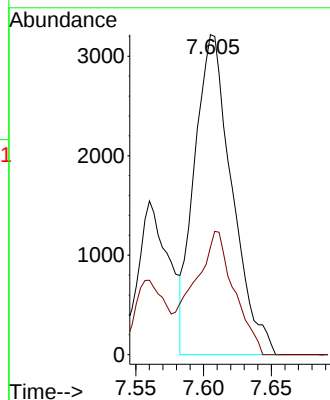
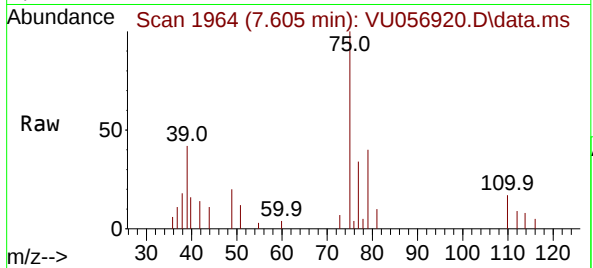
77 33.6 22.3 41.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023

Supervised By :Semsettin Yesilyurt 12/18/2023



#40

4-Methyl-2-pentanone

Concen: 2.581 ug/L

RT: 7.788 min Scan# 2021

Delta R.T. 0.003 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

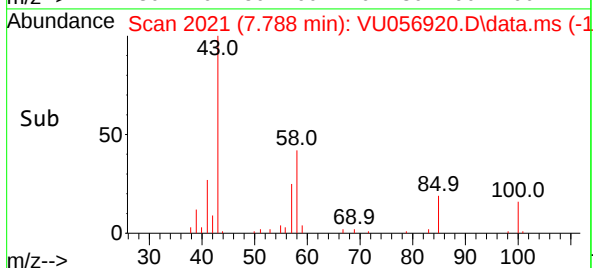
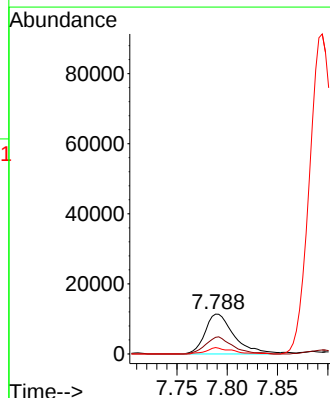
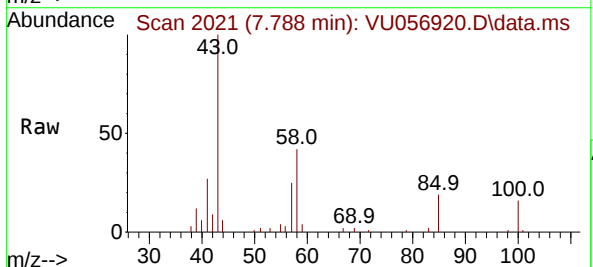
Tgt Ion: 43 Resp: 22878

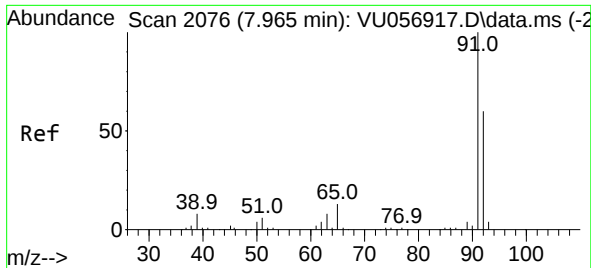
Ion Ratio Lower Upper

43 100

58 39.5 33.7 50.5

100 0.0 13.0 19.4





#42

Toluene

Concen: 0.280 ug/L

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

Instrument :

MSVOA\_U

ClientSampleId :

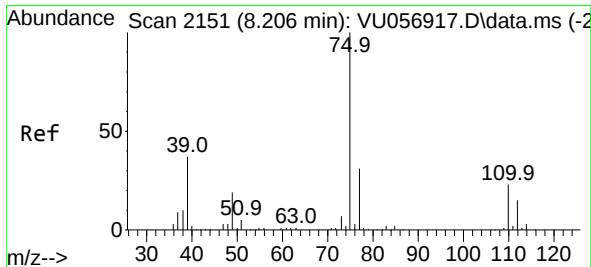
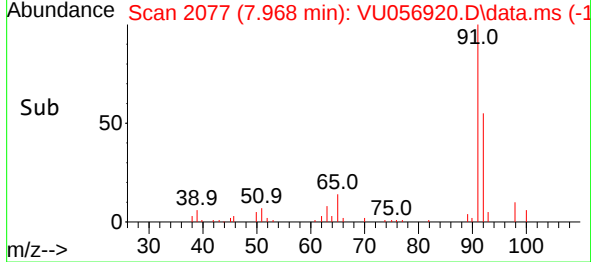
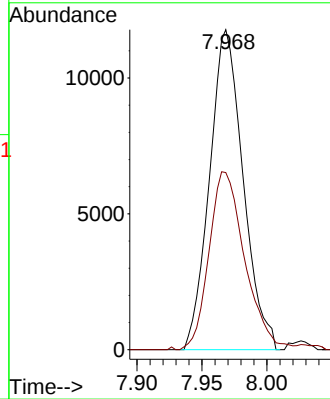
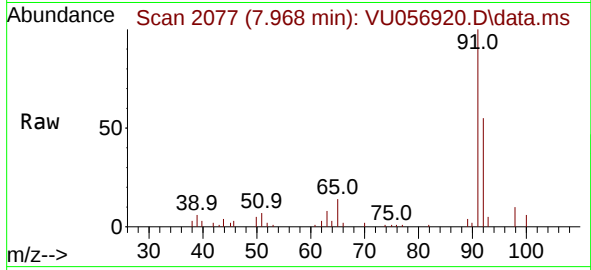
MDL-WATER-QT4-2023-07

Tgt Ion: 91 Resp: 21140  
 Ion Ratio Lower Upper  
 91 100  
 92 55.3 40.4 75.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
 Supervised By :Semsettin Yesilyurt 12/18/2023



#44

trans-1,3-Dichloropropene

Concen: 0.244 ug/L

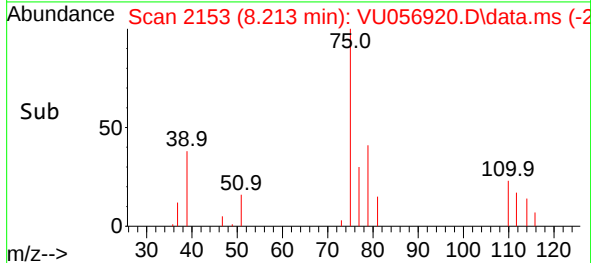
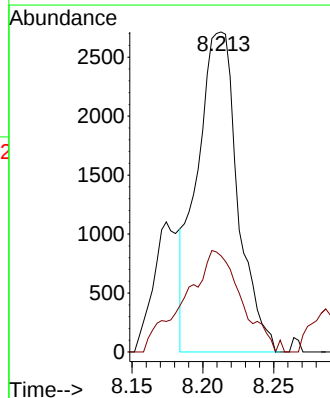
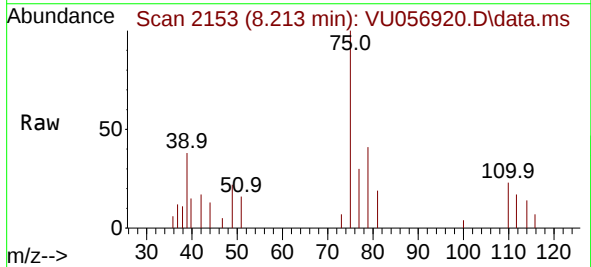
RT: 8.213 min Scan# 2153

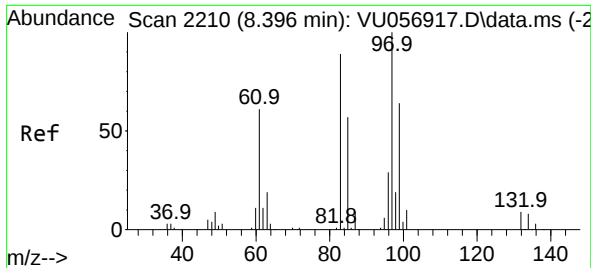
Delta R.T. 0.006 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

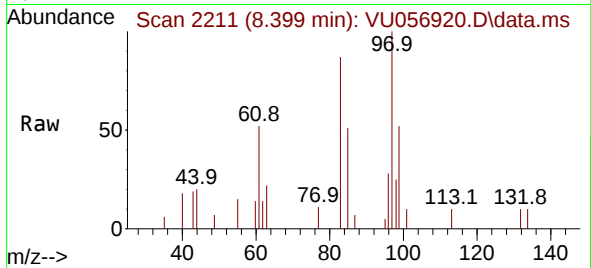
Tgt Ion: 75 Resp: 5452  
 Ion Ratio Lower Upper  
 75 100  
 77 30.1 21.8 40.4





#45  
1,1,2-Trichloroethane  
Concen: 0.262 ug/L  
RT: 8.399 min Scan# 2110  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

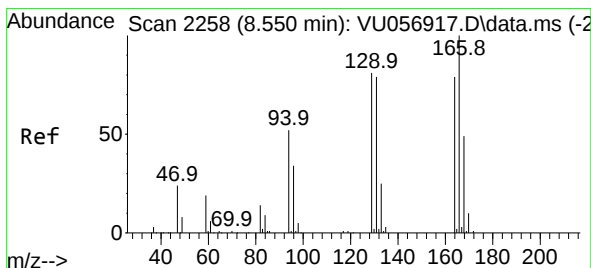
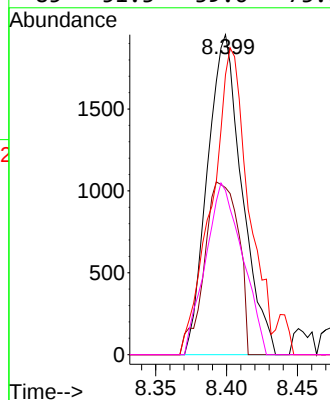
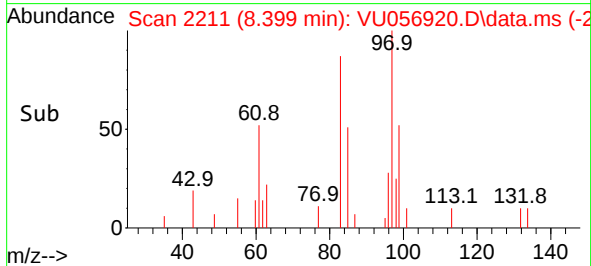
Instrument : MSVOA\_U  
ClientSampleId : VU056920.D  
MDL-WATER-QT4-2023-07



| Tgt Ion: | 97    | Resp: | 330   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 52.2  | 41.9  | 77.9  |
| 83       | 87.5  | 59.1  | 109.7 |
| 85       | 51.3  | 39.6  | 73.6  |

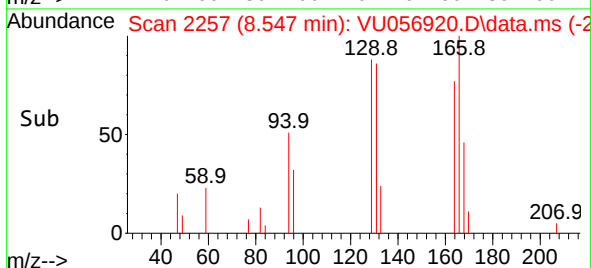
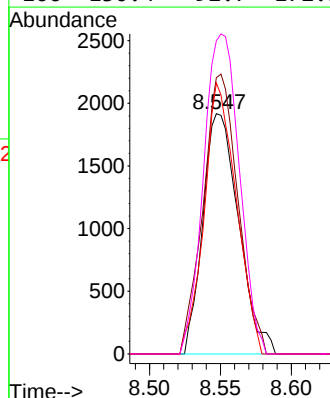
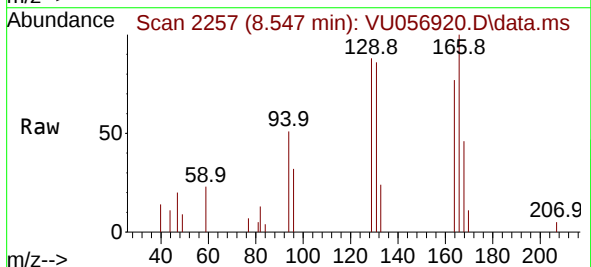
Manual Integrations  
APPROVED

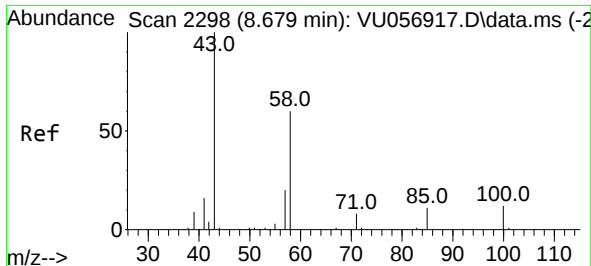
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#47  
Tetrachloroethene  
Concen: 0.239 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. -0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

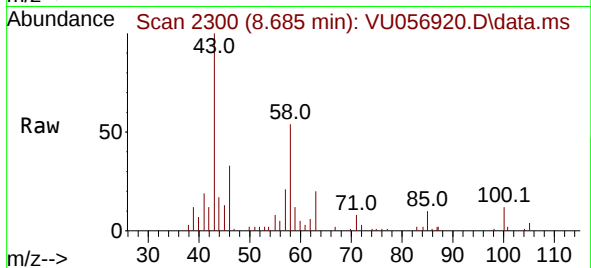
| Tgt Ion: | 164   | Resp: | 3355  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 115.0 | 73.4  | 136.4 |
| 131      | 112.7 | 71.5  | 132.9 |
| 166      | 130.4 | 92.7  | 172.1 |





#48  
2-Hexanone  
Concen: 3.221 ug/L  
RT: 8.685 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

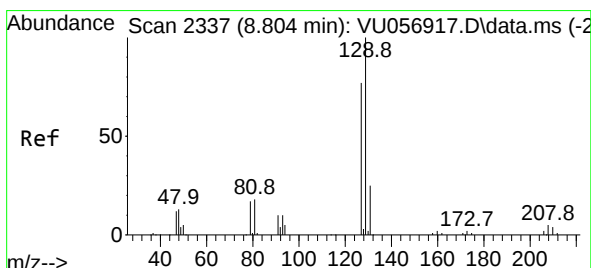
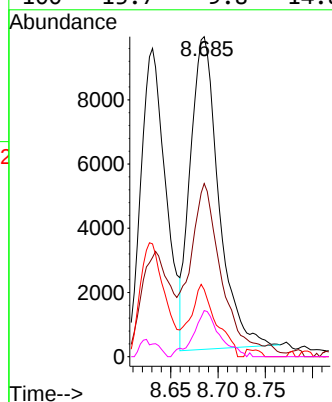
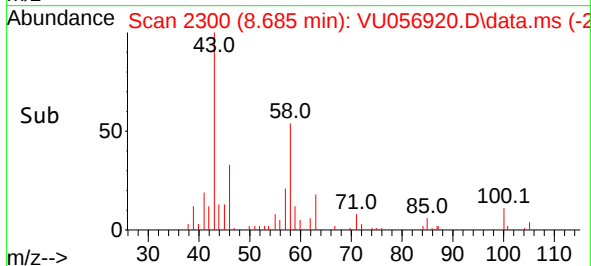
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



Tgt Ion: 43 Resp: 20339  
Ion Ratio Lower Upper  
43 100  
58 55.2 47.5 71.3  
57 20.8 17.0 25.4  
100 13.7 9.8 14.8

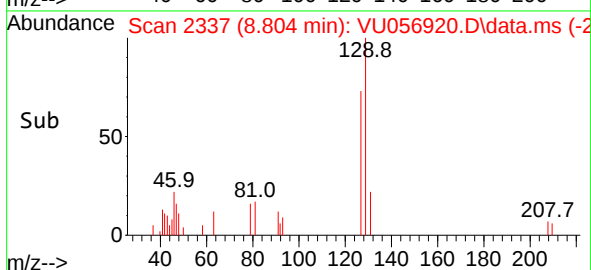
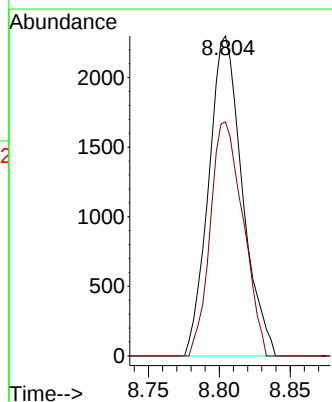
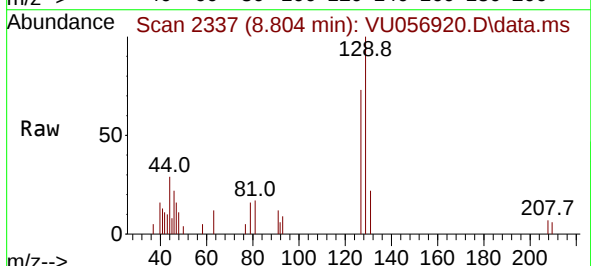
Manual Integrations  
APPROVED

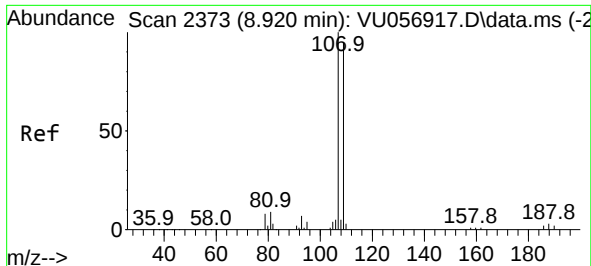
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#49  
Dibromochloromethane  
Concen: 0.262 ug/L  
RT: 8.804 min Scan# 2337  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Tgt Ion:129 Resp: 3797  
Ion Ratio Lower Upper  
129 100  
127 73.2 53.9 100.1





#50

1,2-Dibromoethane

Concen: 0.271 ug/L

RT: 8.923 min Scan# 217

Delta R.T. 0.003 min

Lab File: VU056920.D

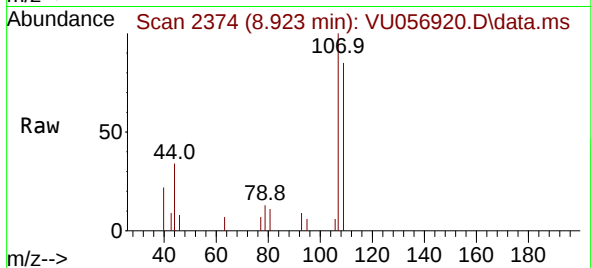
Acq: 16 Dec 2023 12:26

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT4-2023-07

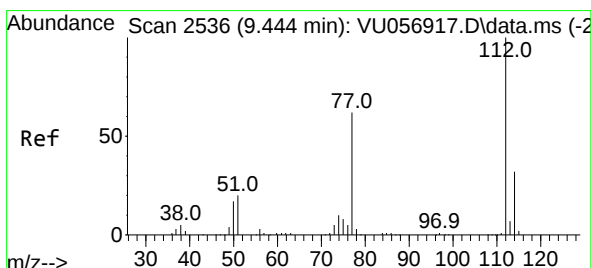
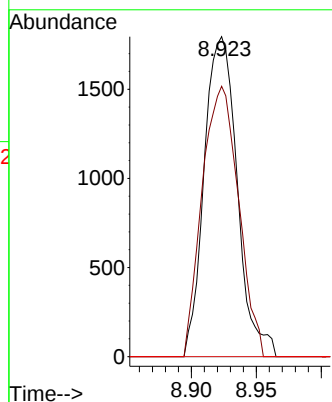


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 317   |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 84.5  | 66.5  | 123.5 |
| 188      | 0.0   | 2.9   | 4.3   |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#51

Chlorobenzene

Concen: 0.259 ug/L

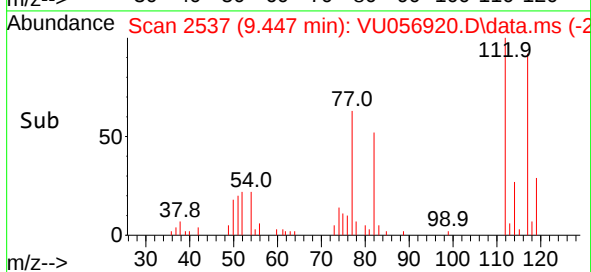
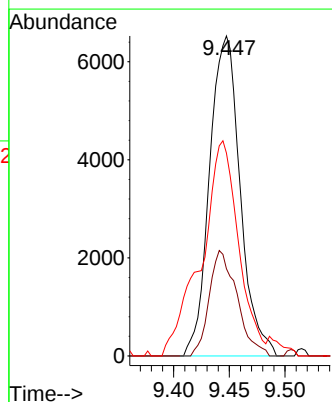
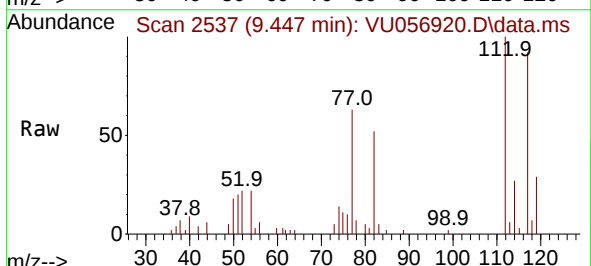
RT: 9.447 min Scan# 2537

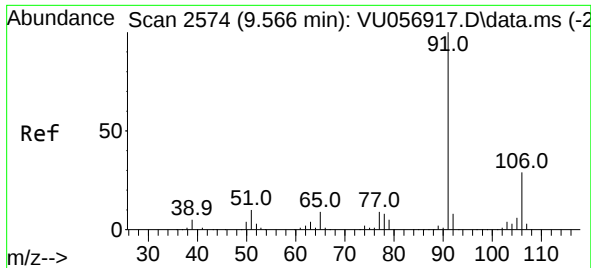
Delta R.T. 0.003 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 12473 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 27.3  | 21.9  | 40.7  |
| 77       | 63.4  | 51.6  | 77.4  |





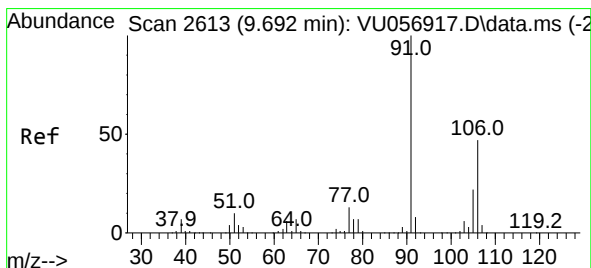
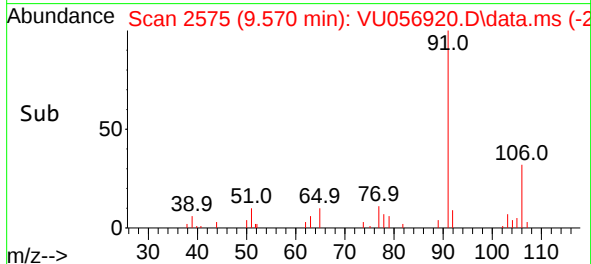
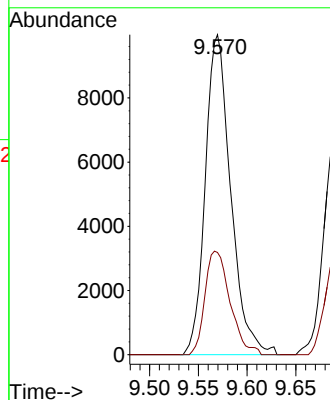
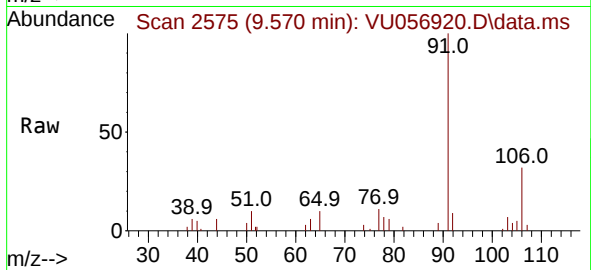
#52  
Ethylbenzene  
Concen: 0.217 ug/L  
RT: 9.570 min Scan# 2109  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07

Tgt Ion: 91 Resp: 1809  
Ion Ratio Lower Upper  
91 100  
106 31.9 20.6 38.4

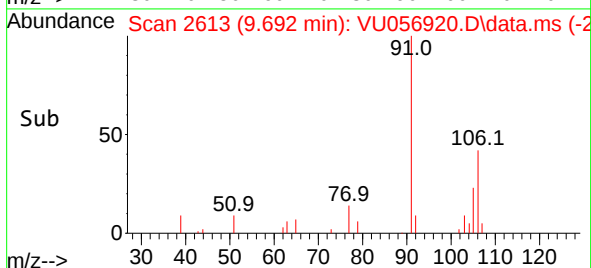
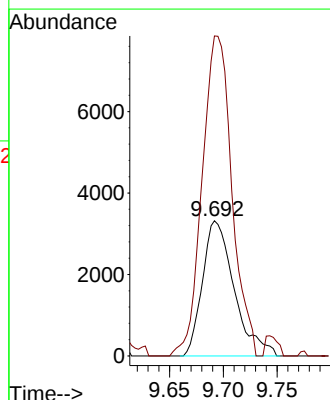
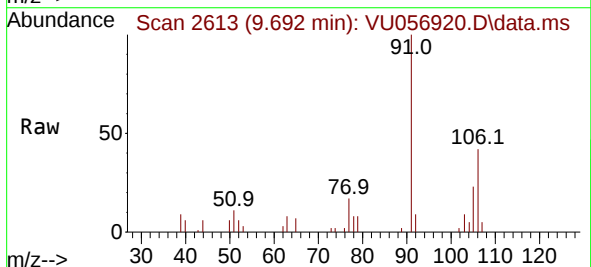
Manual Integrations  
APPROVED

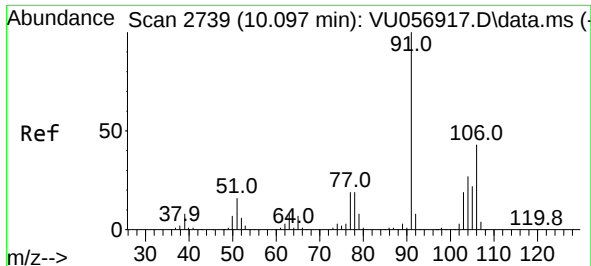
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#53  
m,p-Xylene  
Concen: 0.219 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Tgt Ion:106 Resp: 6804  
Ion Ratio Lower Upper  
106 100  
91 236.6 154.0 286.0





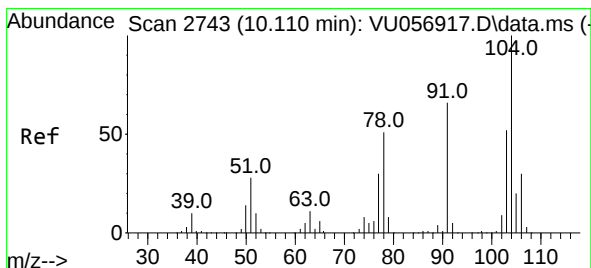
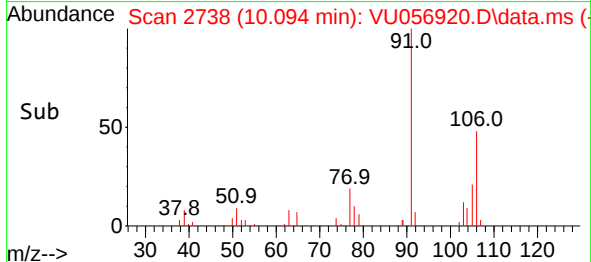
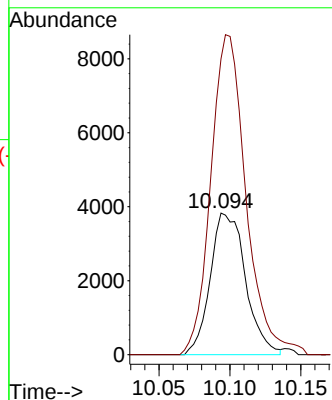
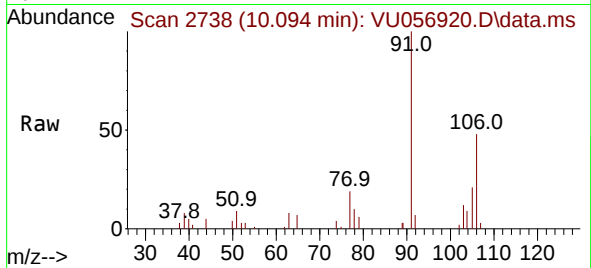
#54  
o-Xylene  
Concen: 0.224 ug/L  
RT: 10.094 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07

Tgt Ion:106 Resp: 6628  
Ion Ratio Lower Upper  
106 100  
91 209.0 160.2 297.6

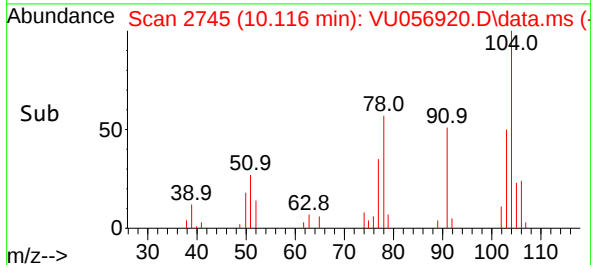
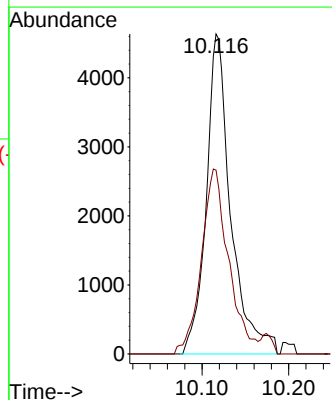
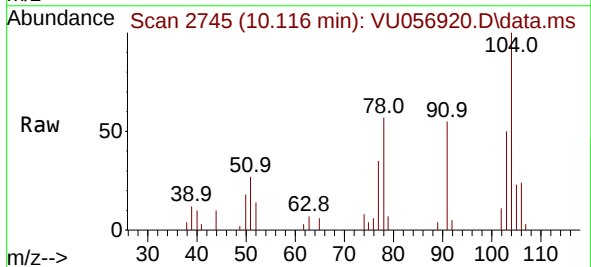
Manual Integrations  
APPROVED

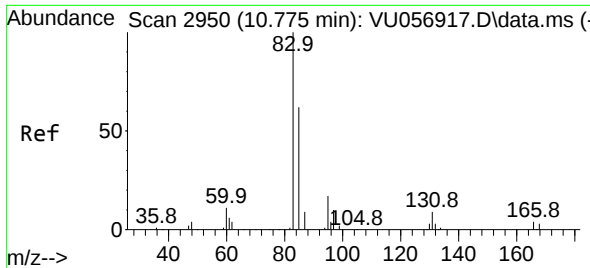
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#55  
Styrene  
Concen: 0.188 ug/L  
RT: 10.116 min Scan# 2745  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

Tgt Ion:104 Resp: 9109  
Ion Ratio Lower Upper  
104 100  
78 57.5 35.6 66.2





#57

1,1,2,2-Tetrachloroethane

Concen: 0.269 ug/L

RT: 10.772 min Scan# 2950

Delta R.T. -0.006 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

Instrument :

MSVOA\_U

ClientSampleId :

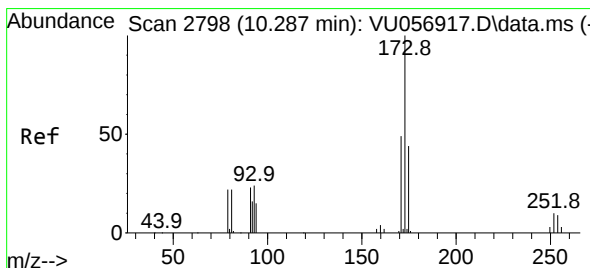
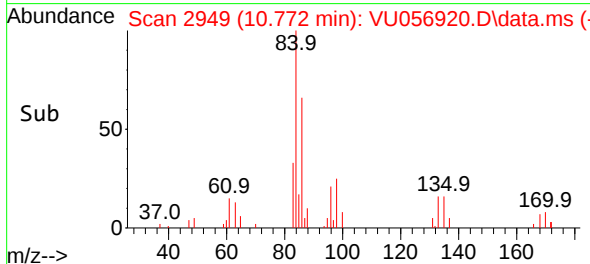
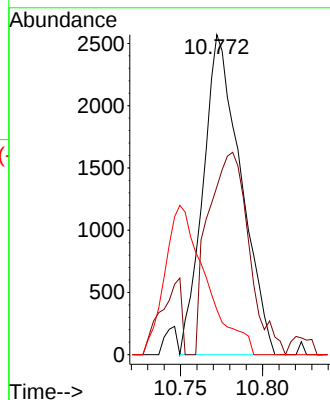
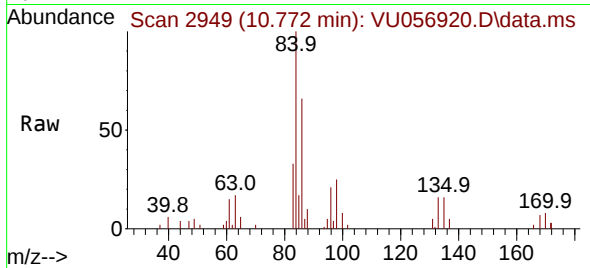
MDL-WATER-QT4-2023-07

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 4098 |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 85        | 52.5  | 45.4  | 84.4 |
| 131       | 14.1  | 6.6   | 9.8  |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#59

Bromoform

Concen: 0.259 ug/L

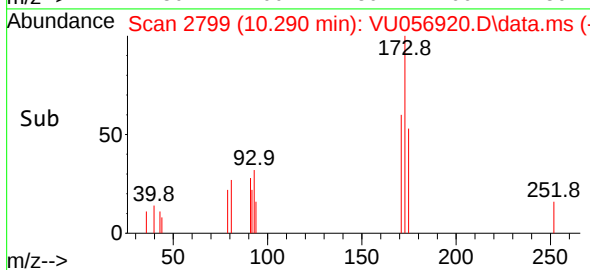
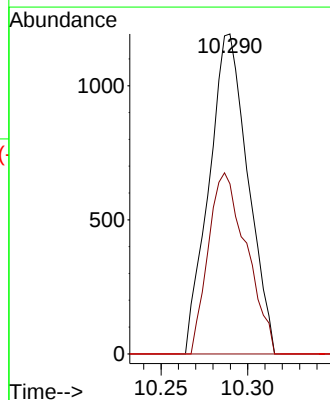
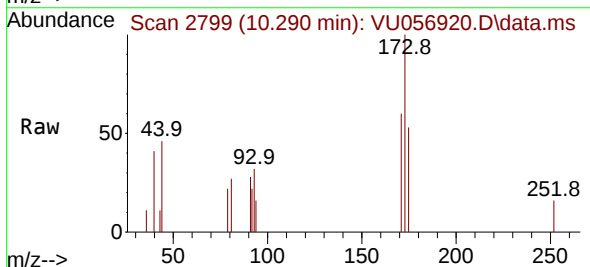
RT: 10.290 min Scan# 2799

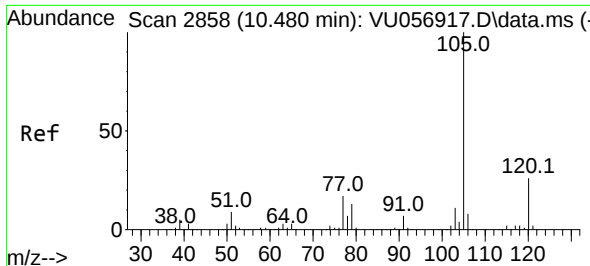
Delta R.T. 0.003 min

Lab File: VU056920.D

Acq: 16 Dec 2023 12:26

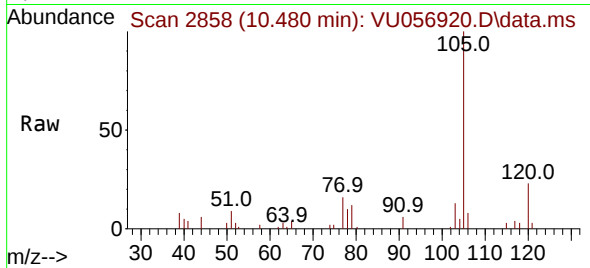
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 173   | Resp: | 1862 |
| Ion Ratio | Lower | Upper |      |
| 173       | 100   |       |      |
| 175       | 55.8  | 38.2  | 57.2 |
| 254       | 0.0   | 7.0   | 10.4 |





#60  
Isopropylbenzene  
Concen: 0.224 ug/L  
RT: 10.480 min Scan# 2858  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

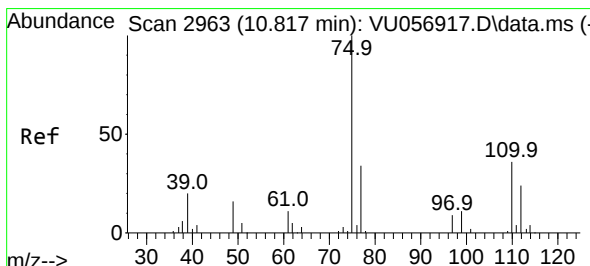
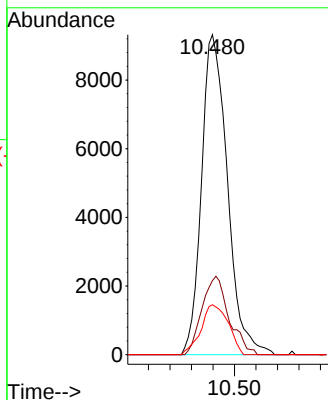
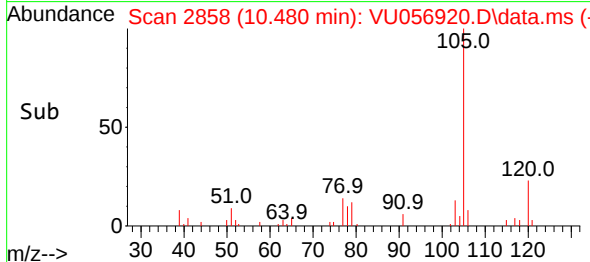
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



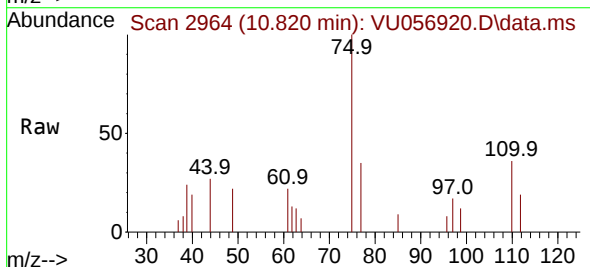
Tgt Ion:105 Resp: 1558  
Ion Ratio Lower Upper  
105 100  
120 25.5 20.1 30.1  
77 16.4 13.2 19.8

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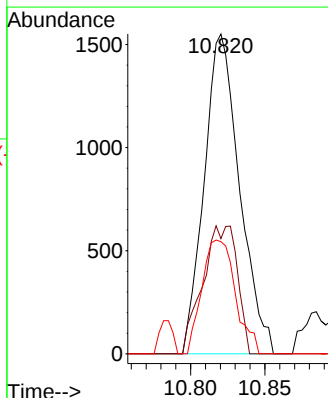
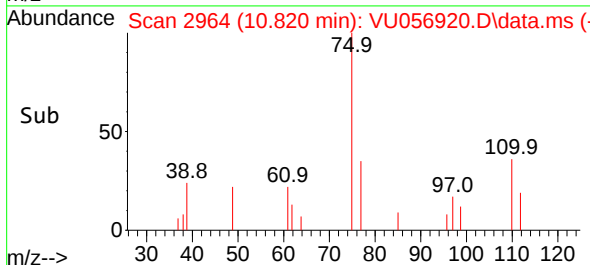
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023

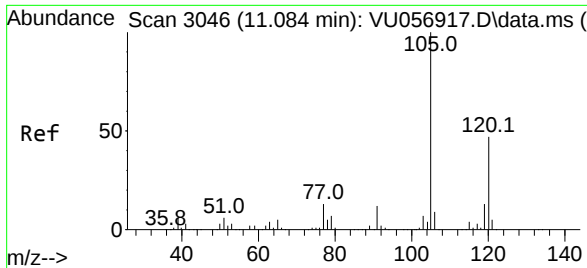


#61  
1,2,3-Trichloropropane  
Concen: 0.271 ug/L  
RT: 10.820 min Scan# 2964  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26



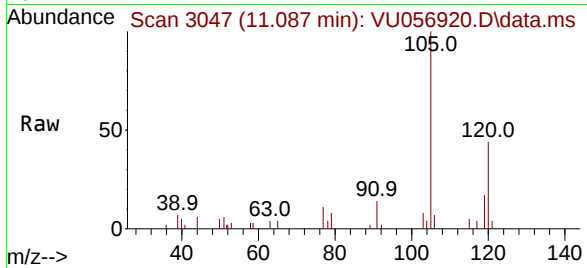
Tgt Ion: 75 Resp: 2568  
Ion Ratio Lower Upper  
75 100  
110 39.2 28.4 42.6  
77 33.7 26.3 39.5





#62  
1,3,5-Trimethylbenzene  
Concen: 0.211 ug/L  
RT: 11.087 min Scan# 3046  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

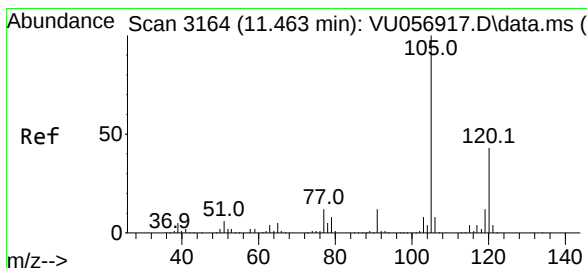
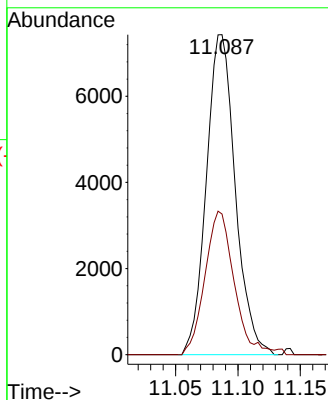
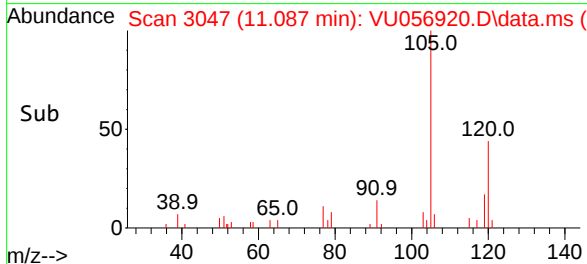
Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



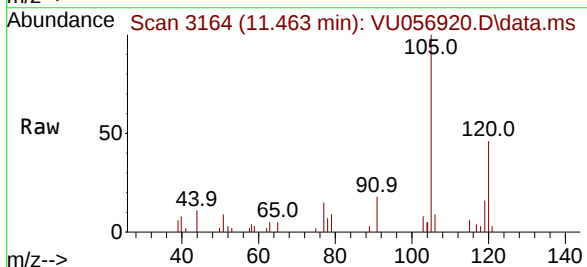
Tgt Ion:105 Resp: 12020  
Ion Ratio Lower Upper  
105 100  
120 45.4 36.8 55.2

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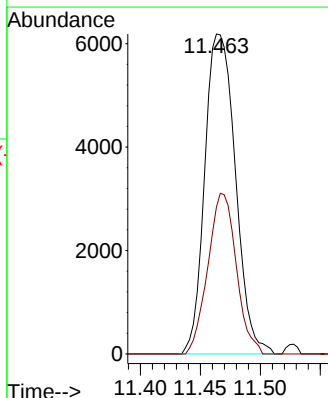
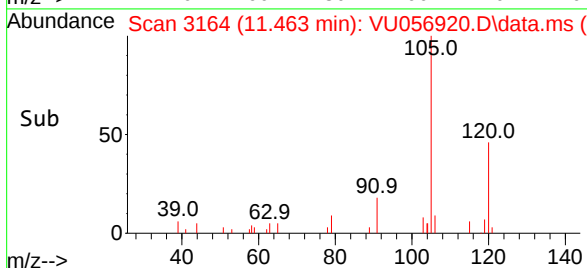
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023

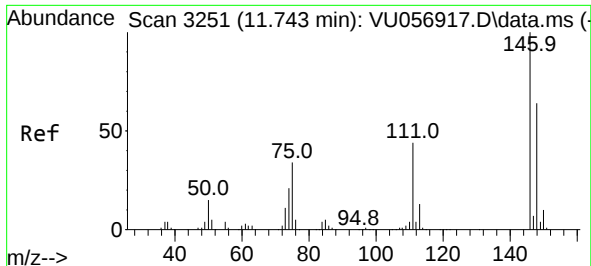


#63  
1,2,4-Trimethylbenzene  
Concen: 0.195 ug/L  
RT: 11.463 min Scan# 3164  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26



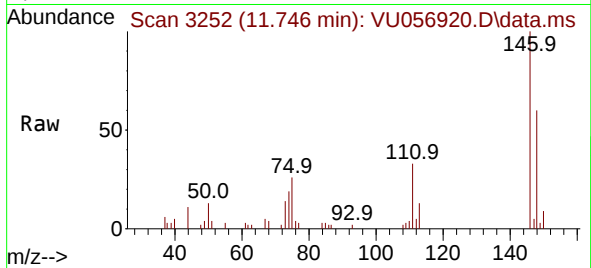
Tgt Ion:105 Resp: 10999  
Ion Ratio Lower Upper  
105 100  
120 46.5 34.2 51.4





#64  
1,3-Dichlorobenzene  
Concen: 0.283 ug/L  
RT: 11.746 min Scan# 3252  
Delta R.T. 0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

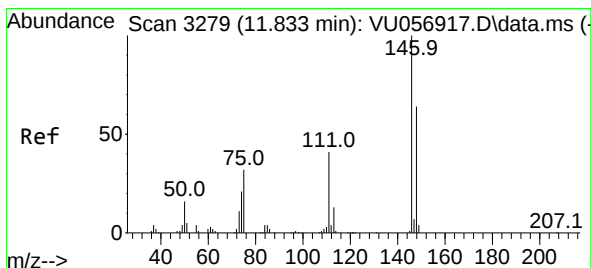
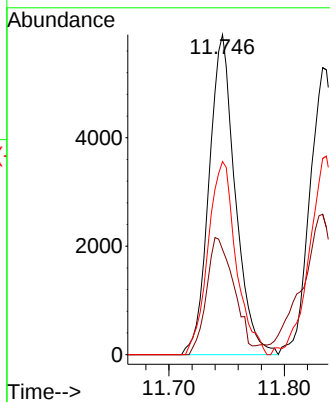
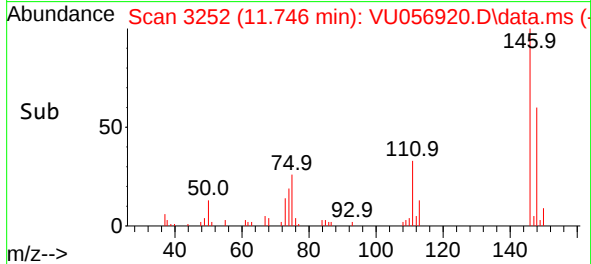
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-07



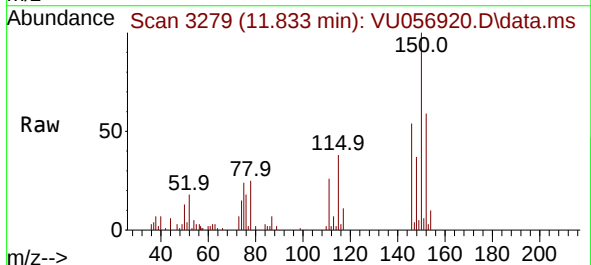
Tgt Ion:146 Resp: 931  
Ion Ratio Lower Upper  
146 100  
111 32.9 31.7 58.9  
148 60.4 44.3 82.3

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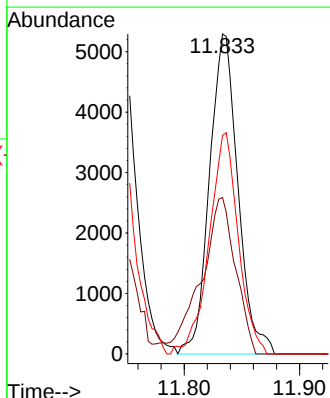
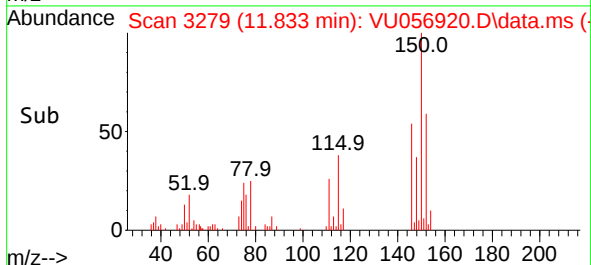
Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023

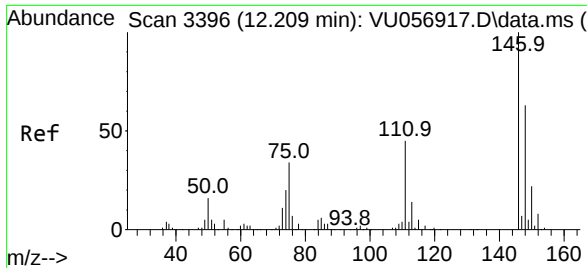


#65  
1,4-Dichlorobenzene  
Concen: 0.279 ug/L  
RT: 11.833 min Scan# 3279  
Delta R.T. 0.000 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26



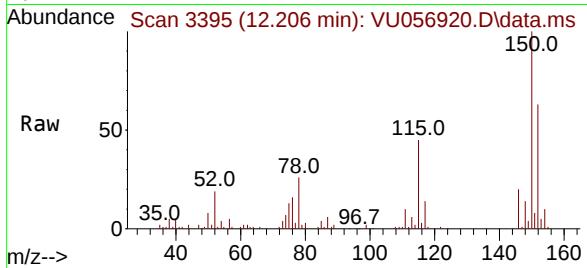
Tgt Ion:146 Resp: 9057  
Ion Ratio Lower Upper  
146 100  
111 48.9 31.2 58.0  
148 68.3 45.6 84.8





#67  
1,2-Dichlorobenzene  
Concen: 0.304 ug/L  
RT: 12.206 min Scan# 311  
Delta R.T. -0.003 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26

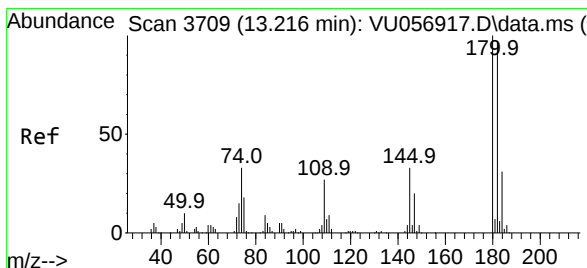
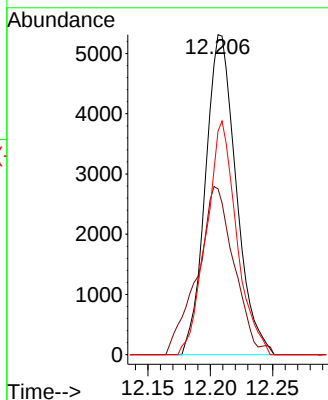
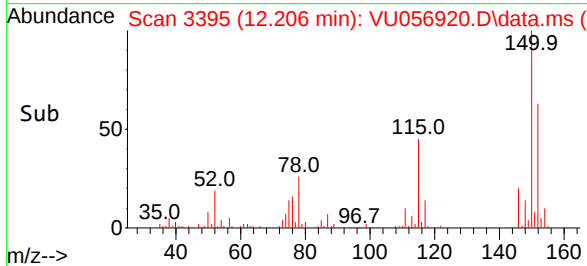
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT4-2023-07



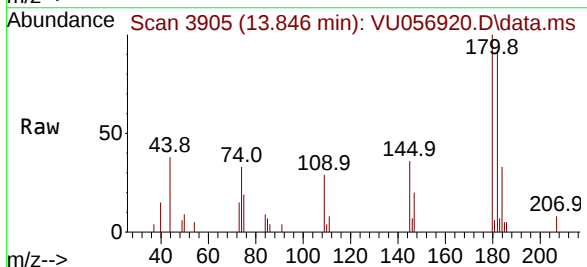
Tgt Ion:146 Resp: 9108  
Ion Ratio Lower Upper  
146 100  
111 51.8 36.9 55.3  
148 69.9 53.0 79.4

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
Supervised By :Semsettin Yesilyurt 12/18/2023



#69  
1,3,5-Trichlorobenzene  
Concen: 0.184 ug/L  
RT: 13.846 min Scan# 3905  
Delta R.T. 0.630 min  
Lab File: VU056920.D  
Acq: 16 Dec 2023 12:26



Tgt Ion:180 Resp: 4571  
Ion Ratio Lower Upper  
180 100  
182 87.5 76.2 114.4  
184 28.4 24.6 37.0  
145 32.2 26.7 40.1

