

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121423\  
 Data File : VU056832.D  
 Acq On : 14 Dec 2023 12:29  
 Operator : MD/SY  
 Sample : 04696-02  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2023-08

Quant Time: Dec 15 01:07:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Dec 15 00:49:12 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
 Supervised By :Mahesh Dadoda 12/18/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 229712   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 235192   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 98309    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 73765    | 3.746    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 75.000%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 63230    | 4.291    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 85.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 34290    | 4.070    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 81.400%  |
| 20) 2-Butanone-d5             | 4.624  | 46    | 217468   | 55.926   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 111.860% |
| 24) Chloroform-d              | 5.055  | 84    | 183096   | 4.911    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 98.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 91282    | 5.174    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 103.400% |
| 32) Benzene-d6                | 5.721  | 84    | 338568   | 4.641    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 92.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 108714   | 4.761    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 95.200%  |
| 41) Toluene-d8                | 7.894  | 98    | 271540   | 4.165    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 83.200%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 37940    | 4.285    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 85.600%  |
| 46) 2-Hexanone-d5             | 8.631  | 63    | 158351   | 47.415   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 94.840%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84    | 82797    | 5.012    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 100.200% |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 97394    | 5.040    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 100.800% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.380  | 85    | 4973     | 0.207    | ug/L # | 87       |
| 3) Chloromethane              | 1.515  | 50    | 7177     | 0.303    | ug/L   | 96       |
| 5) Vinyl chloride             | 1.602  | 62    | 5631     | 0.240    | ug/L # | 1        |
| 6) Bromomethane               | 1.853  | 94    | 3378     | 0.244    | ug/L   | 88       |
| 8) Chloroethane               | 1.927  | 64    | 3280     | 0.238    | ug/L   | 85       |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 7015     | 0.212    | ug/L   | 90       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101   | 5219     | 0.257    | ug/L # | 88       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 4860     | 0.261    | ug/L # | 1        |
| 14) Carbon disulfide          | 2.788  | 76    | 14048    | 0.217    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.965  | 43    | 1675m    | 0.260    | ug/L   |          |
| 17) Methyl tert-butyl Ether   | 3.354  | 73    | 9075     | 0.219    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 4308     | 0.228    | ug/L   | 78       |
| 19) 1,1-Dichloroethane        | 3.866  | 63    | 8229     | 0.226    | ug/L # | 84       |
| 21) 2-Butanone                | 4.724  | 43    | 12706m   | 3.179    | ug/L   |          |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 4521     | 0.220    | ug/L   | 92       |
| 23) Bromochloromethane        | 4.975  | 128   | 1870     | 0.217    | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.798  | 62    | 5493     | 0.244    | ug/L # | 95       |
| 29) 1,1,1-Trichloroethane     | 5.309  | 97    | 7058     | 0.208    | ug/L   | 95       |
| 31) Carbon tetrachloride      | 5.518  | 117   | 6623     | 0.224    | ug/L   | 92       |

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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2023-08

Quant Time: Dec 15 01:07:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Dec 15 00:49:12 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
 Supervised By :Mahesh Dadoda 12/18/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 33) Benzene                   | 5.769  | 78   | 18578    | 0.225 | ug/L   | 100      |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 4462     | 0.211 | ug/L # | 93       |
| 38) Bromodichloromethane      | 7.103  | 83   | 6066     | 0.225 | ug/L   | 87       |
| 39) cis-1,3-Dichloropropene   | 7.608  | 75   | 6191     | 0.201 | ug/L   | 90       |
| 40) 4-Methyl-2-pentanone      | 7.791  | 43   | 21359    | 2.127 | ug/L # | 86       |
| 42) Toluene                   | 7.965  | 91   | 19593    | 0.229 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene | 8.213  | 75   | 5623m    | 0.223 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 8.399  | 97   | 3132     | 0.219 | ug/L # | 82       |
| 47) Tetrachloroethene         | 8.550  | 164  | 3201     | 0.202 | ug/L   | 90       |
| 48) 2-Hexanone                | 8.685  | 43   | 22186    | 3.103 | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.801  | 129  | 3251     | 0.198 | ug/L   | 90       |
| 50) 1,2-Dibromoethane         | 8.923  | 107  | 3019     | 0.228 | ug/L # | 90       |
| 51) Chlorobenzene             | 9.444  | 112  | 11741    | 0.215 | ug/L   | 94       |
| 52) Ethylbenzene              | 9.569  | 91   | 17254    | 0.183 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.692  | 106  | 7189     | 0.205 | ug/L   | 83       |
| 54) o-Xylene                  | 10.097 | 106  | 6807     | 0.203 | ug/L   | 85       |
| 55) Styrene                   | 10.113 | 104  | 9070     | 0.165 | ug/L   | 91       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 3777     | 0.219 | ug/L # | 89       |
| 59) Bromoform                 | 10.286 | 173  | 1938     | 0.241 | ug/L # | 86       |
| 60) Isopropylbenzene          | 10.479 | 105  | 14502    | 0.187 | ug/L   | 96       |
| 61) 1,2,3-Trichloropropane    | 10.820 | 75   | 2218     | 0.210 | ug/L # | 84       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 11449    | 0.180 | ug/L   | 96       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 10983    | 0.174 | ug/L   | 96       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 9103     | 0.248 | ug/L   | 95       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 10475    | 0.290 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 11977    | 0.358 | ug/L   | 91       |
| 69) 1,3,5-Trichlorobenzene    | 13.222 | 180  | 5290     | 0.191 | ug/L   | 93       |
| -----                         |        |      |          |       |        |          |

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

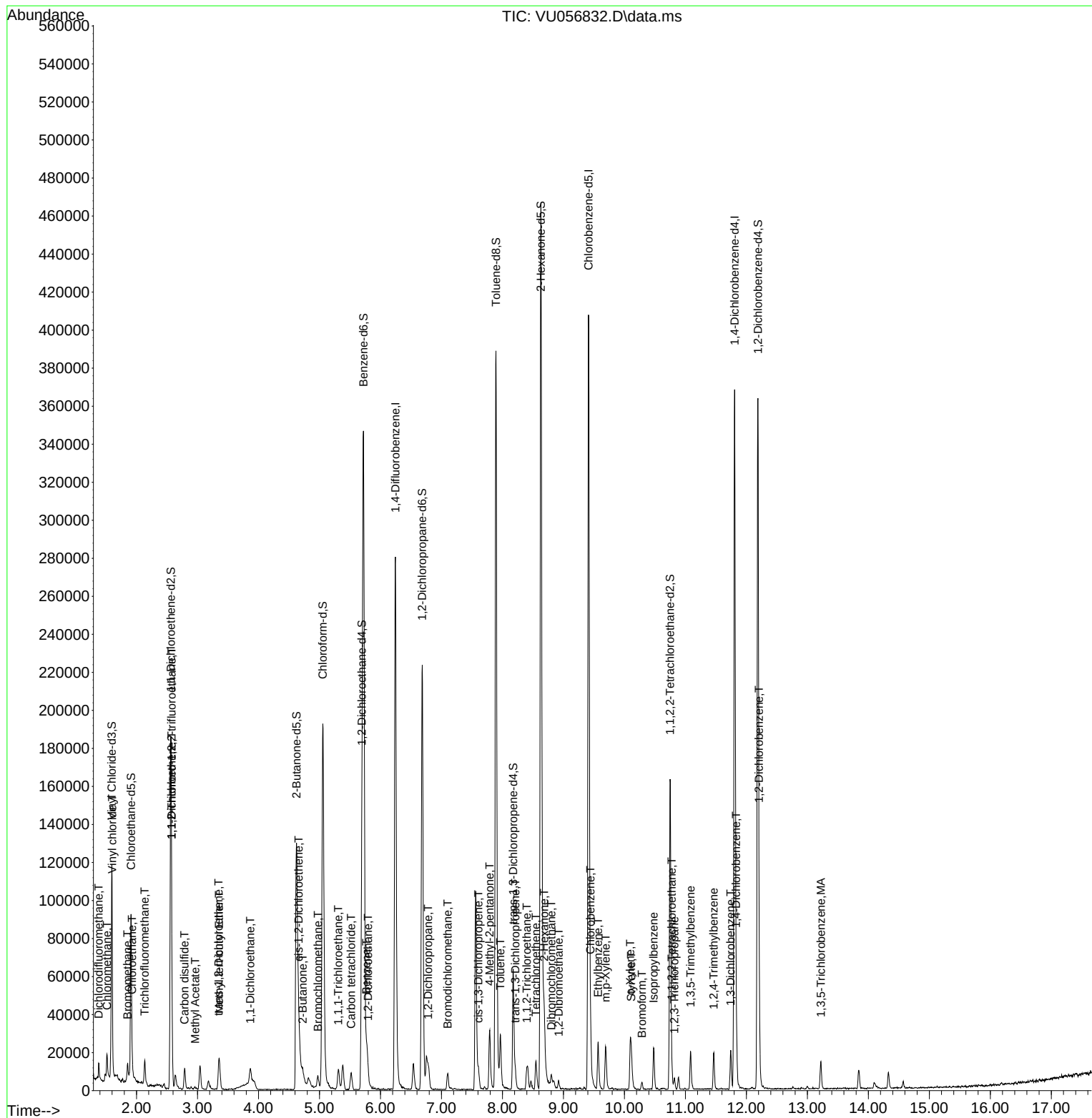
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121423\  
Data File : VU056832.D  
Acq On : 14 Dec 2023 12:29  
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Sample : 04696-02  
Misc : 25.0mL/MSVOA\_U/WATER  
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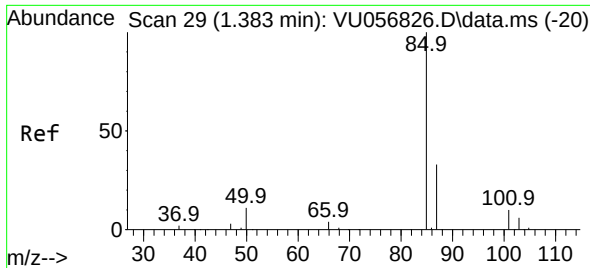
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

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Manual Integrations  
APPROVED

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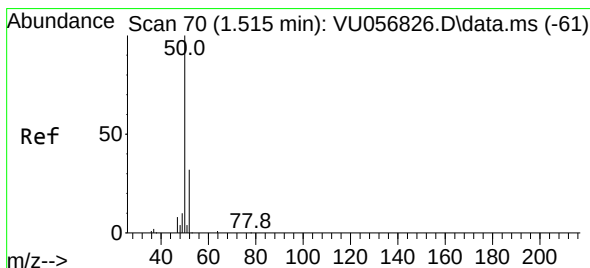
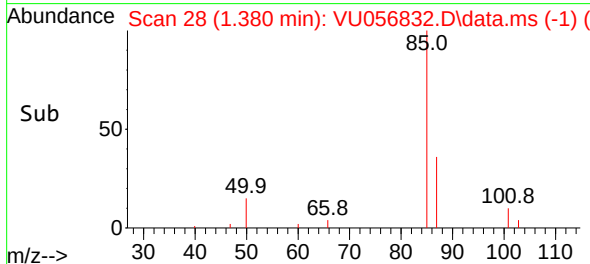
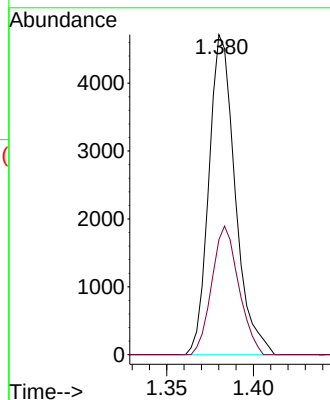
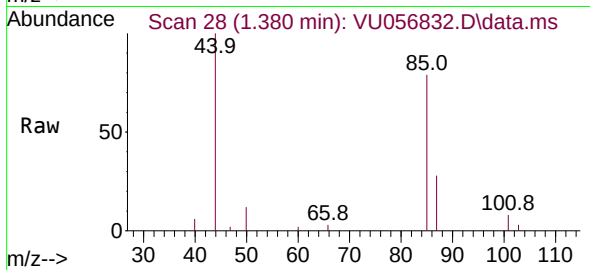
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Dichlorodifluoromethane  
Concen: 0.207 ug/L  
RT: 1.380 min Scan# 29  
Delta R.T. -0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

Tgt Ion: 85 Resp: 497  
Ion Ratio Lower Upper  
85 100  
87 41.0 26.8 40.2

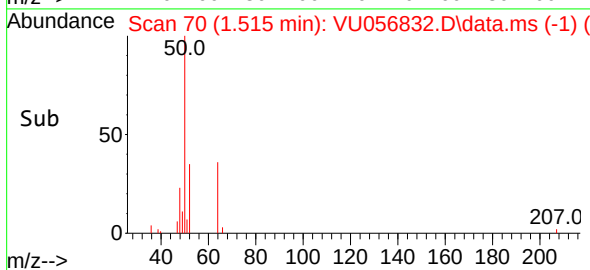
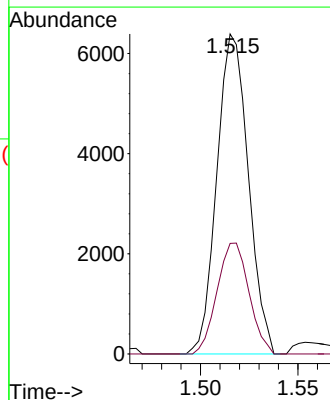
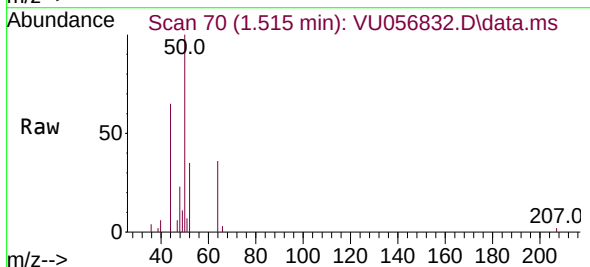
Manual Integrations  
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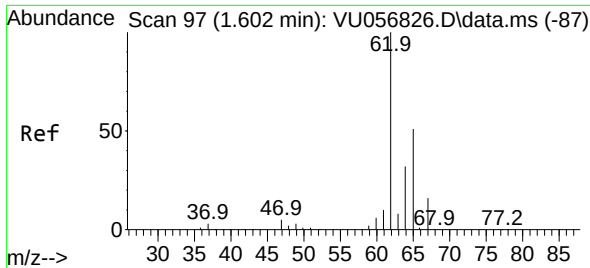
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#3  
Chloromethane  
Concen: 0.303 ug/L  
RT: 1.515 min Scan# 70  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

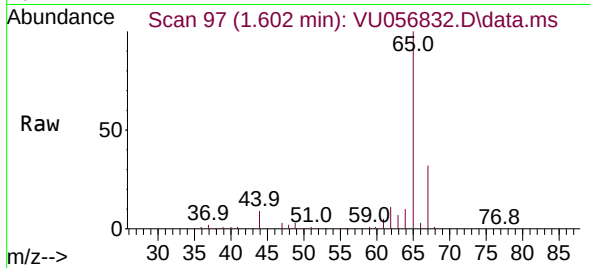
Tgt Ion: 50 Resp: 7177  
Ion Ratio Lower Upper  
50 100  
52 34.6 22.5 41.7





#5  
 Vinyl chloride  
 Concen: 0.240 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VU056832.D  
 Acq: 14 Dec 2023 12:29

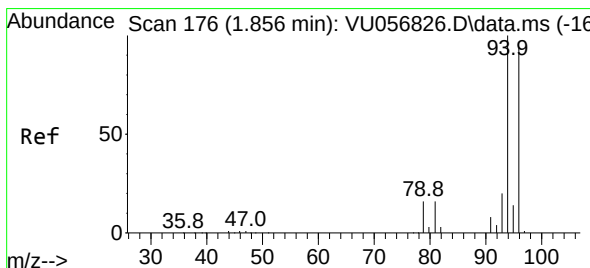
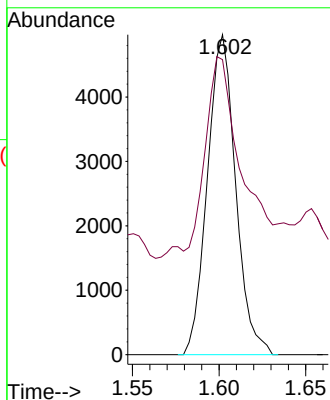
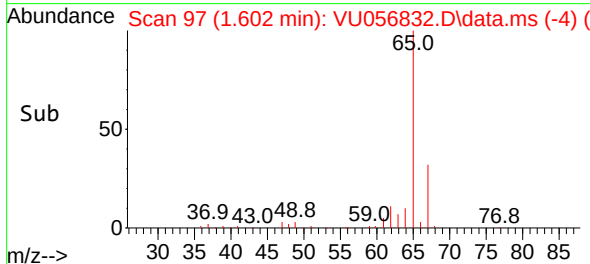
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2023-08



Tgt Ion: 62 Resp: 563  
 Ion Ratio Lower Upper  
 62 100  
 64 92.2 22.8 42.4

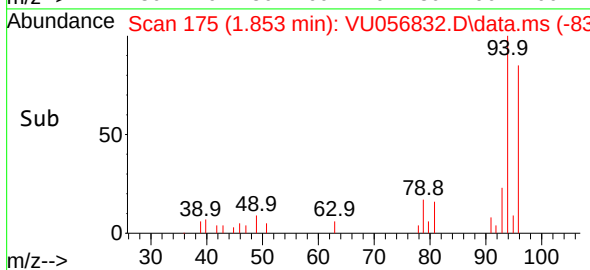
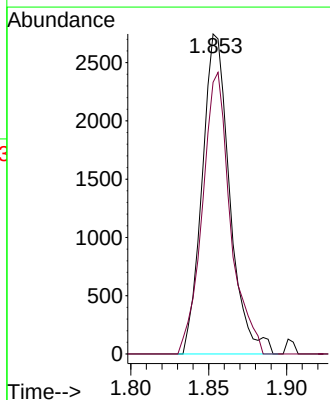
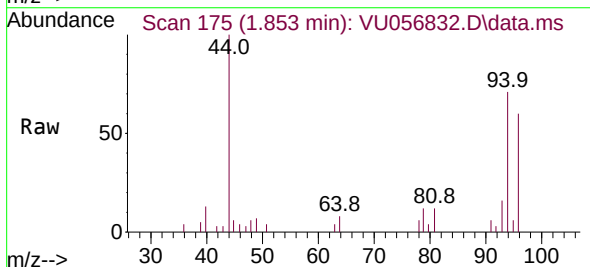
Manual Integrations  
 APPROVED

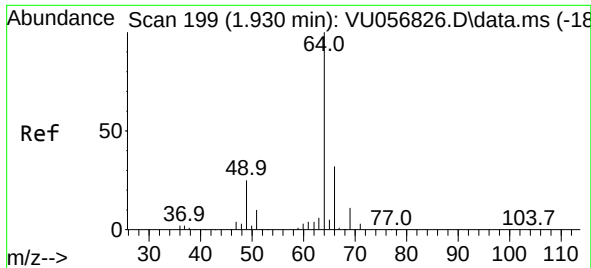
Reviewed By :Semsettin Yesilyurt 12/16/2023  
 Supervised By :Mahesh Dadoda 12/18/2023



#6  
 Bromomethane  
 Concen: 0.244 ug/L  
 RT: 1.853 min Scan# 175  
 Delta R.T. -0.003 min  
 Lab File: VU056832.D  
 Acq: 14 Dec 2023 12:29

Tgt Ion: 94 Resp: 3378  
 Ion Ratio Lower Upper  
 94 100  
 96 84.9 67.8 125.8





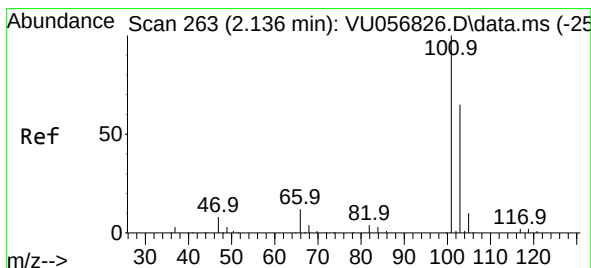
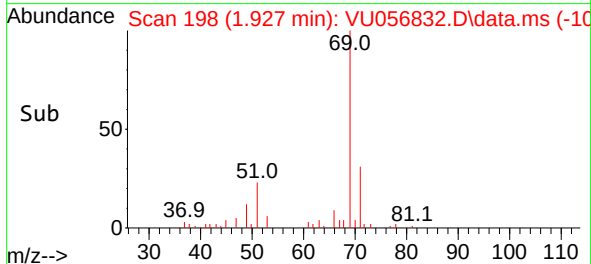
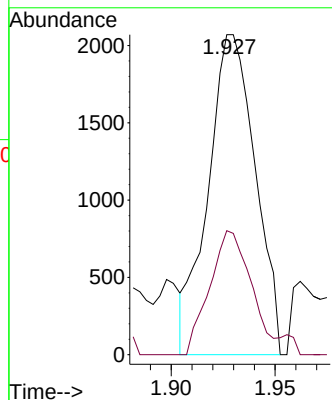
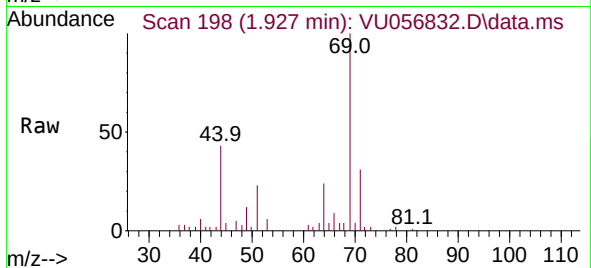
#8  
Chloroethane  
Concen: 0.238 ug/L  
RT: 1.927 min Scan# 199  
Delta R.T. -0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT4-2023-08

Tgt Ion: 64 Resp: 3280  
Ion Ratio Lower Upper  
64 100  
66 38.7 21.4 39.8

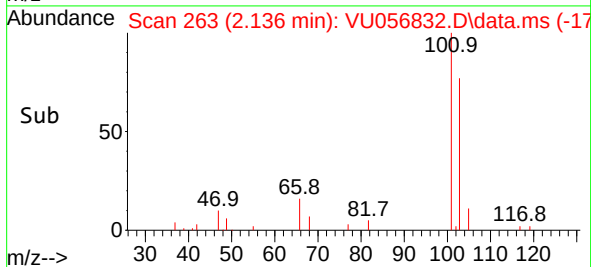
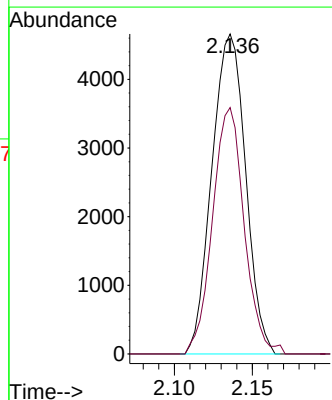
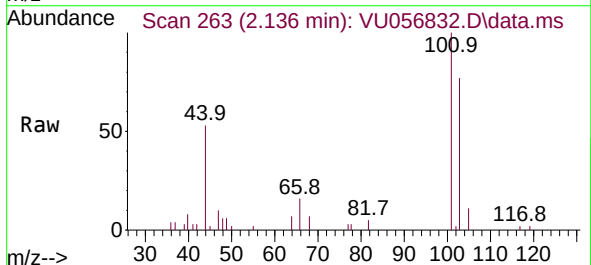
Manual Integrations  
APPROVED

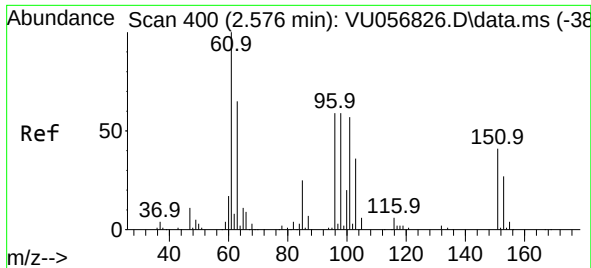
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#9  
Trichlorofluoromethane  
Concen: 0.212 ug/L  
RT: 2.136 min Scan# 263  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Tgt Ion:101 Resp: 7015  
Ion Ratio Lower Upper  
101 100  
103 72.2 51.4 77.2





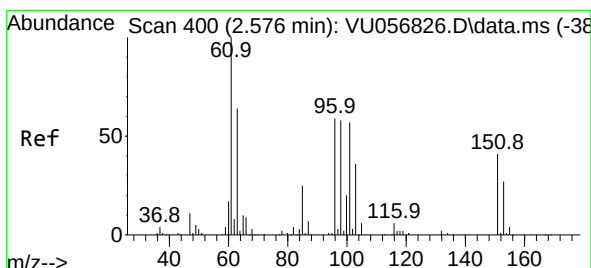
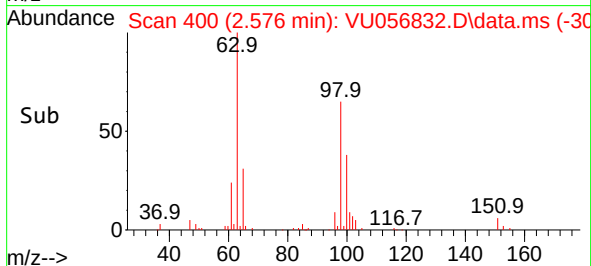
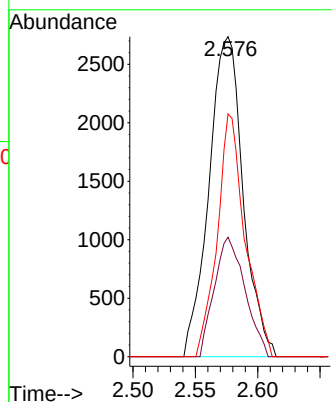
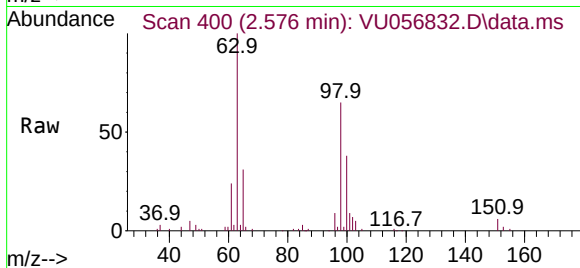
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1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.257 ug/L  
RT: 2.576 min Scan# 400  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

Tgt Ion:101 Resp: 5219  
Ion Ratio Lower Upper  
101 100  
85 33.5 35.2 52.8  
151 61.9 56.0 84.0

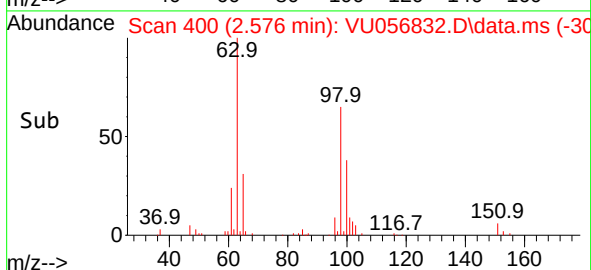
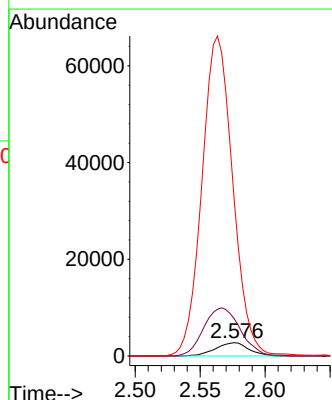
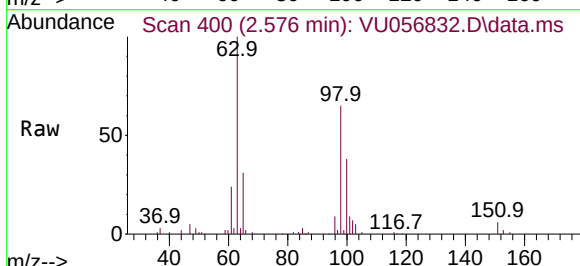
Manual Integrations  
APPROVED

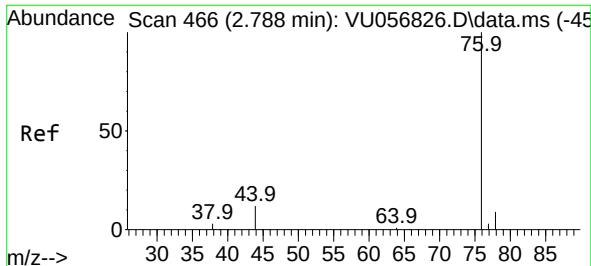
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#12  
1,1-Dichloroethene  
Concen: 0.261 ug/L  
RT: 2.576 min Scan# 400  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

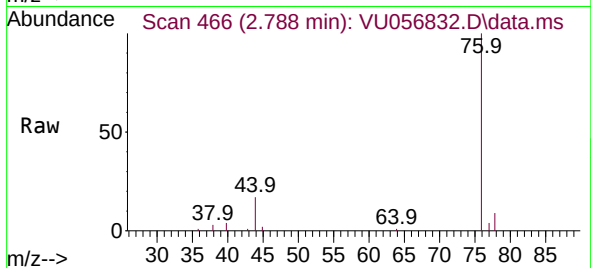
Tgt Ion: 96 Resp: 4860  
Ion Ratio Lower Upper  
96 100  
61 280.5 119.0 221.0#  
63 1168.8 88.7 164.7#





#14  
Carbon disulfide  
Concen: 0.217 ug/L  
RT: 2.788 min Scan# 466  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

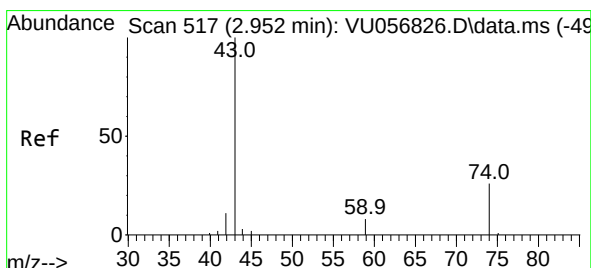
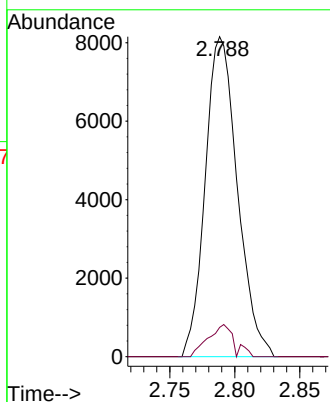
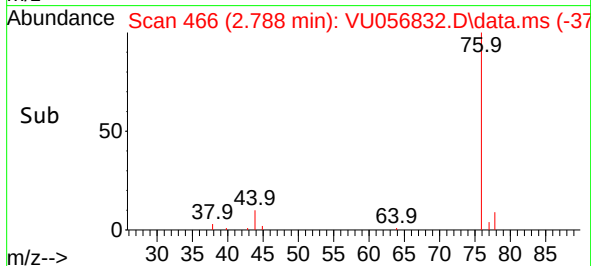
Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08



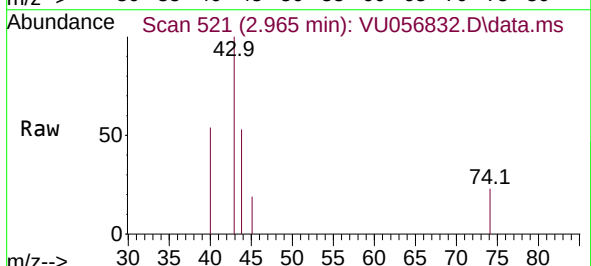
Tgt Ion: 76 Resp: 1404  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.3 10.9

Manual Integrations  
APPROVED

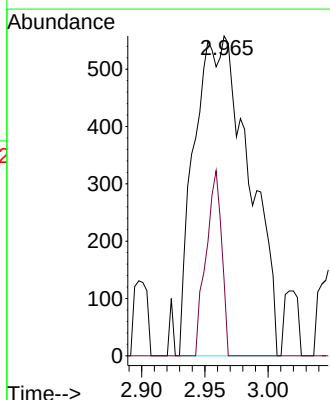
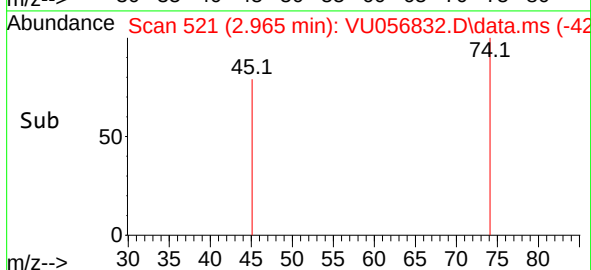
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



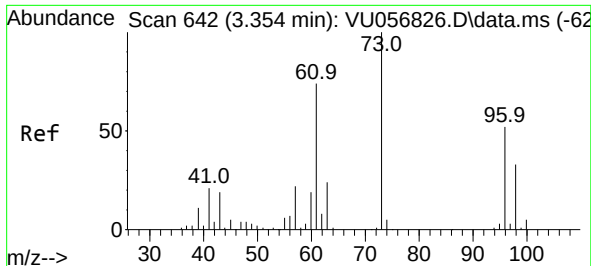
#15  
Methyl Acetate  
Concen: 0.260 ug/L m  
RT: 2.965 min Scan# 521  
Delta R.T. 0.013 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29



Tgt Ion: 43 Resp: 1675  
Ion Ratio Lower Upper  
43 100  
74 16.5 21.0 31.6#

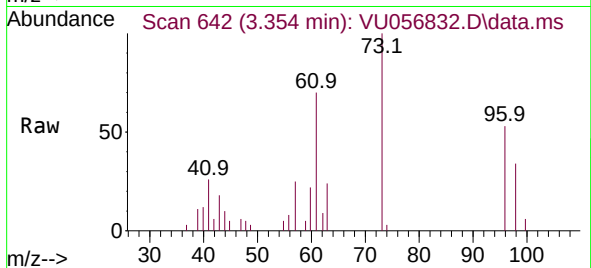






#17  
Methyl tert-butyl Ether  
Concen: 0.219 ug/L  
RT: 3.354 min Scan# 642  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

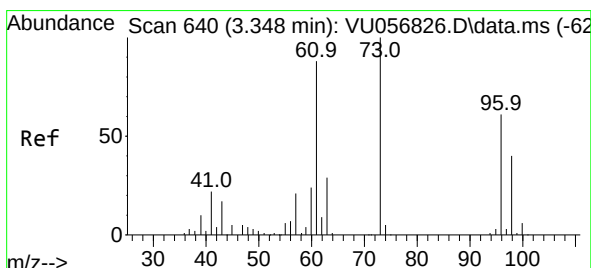
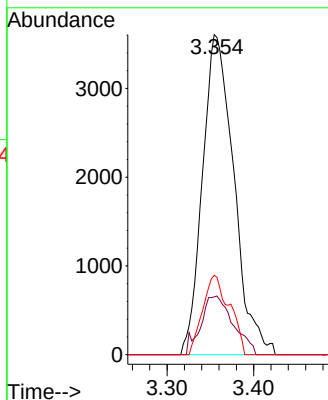
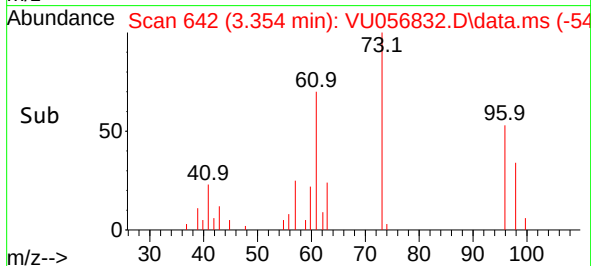
Instrument : MSVOA\_U  
Client Sample Id : MDL-WATER-QT4-2023-08



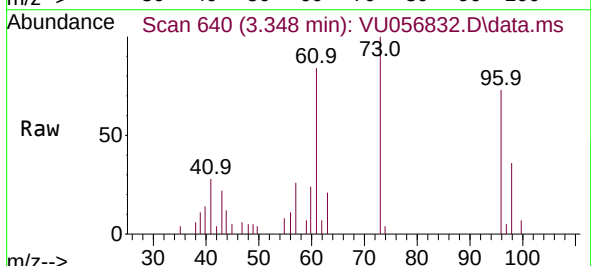
Tgt Ion: 73 Resp: 9075  
Ion Ratio Lower Upper  
73 100  
43 18.9 14.4 21.6  
57 21.2 17.8 26.8

Manual Integrations  
APPROVED

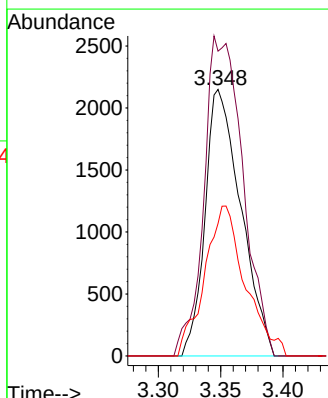
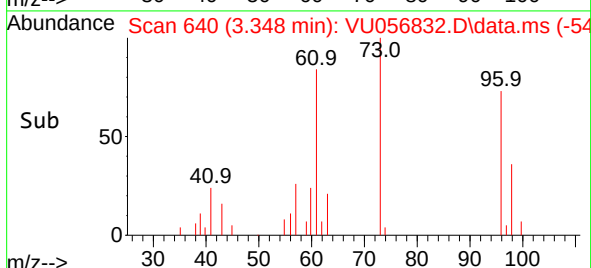
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023

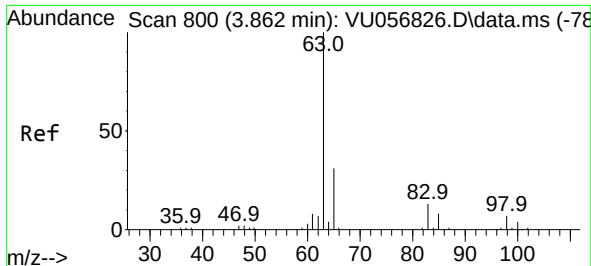


#18  
trans-1,2-Dichloroethene  
Concen: 0.228 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29



Tgt Ion: 96 Resp: 4308  
Ion Ratio Lower Upper  
96 100  
61 114.4 101.8 189.0  
98 49.7 43.0 79.8





#19

1,1-Dichloroethane

Concen: 0.226 ug/L

RT: 3.866 min Scan# 800

Delta R.T. 0.003 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

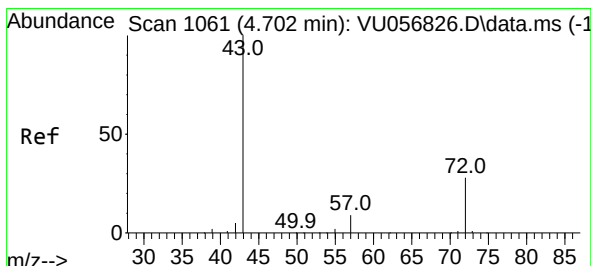
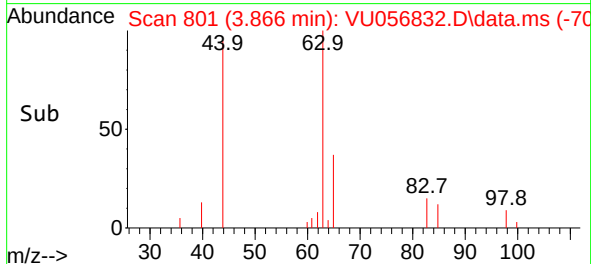
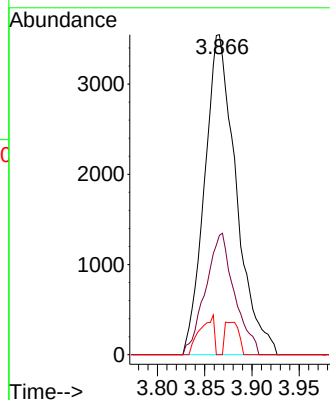
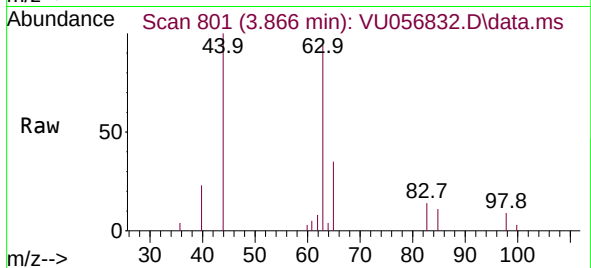
MDL-WATER-QT4-2023-08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 8229 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 65        | 37.3  | 22.9  | 42.5 |
| 83        | 0.0   | 10.1  | 18.9 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#21

2-Butanone

Concen: 3.179 ug/L m

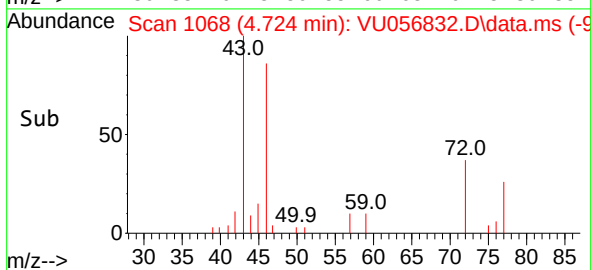
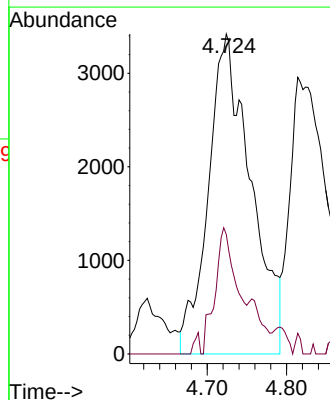
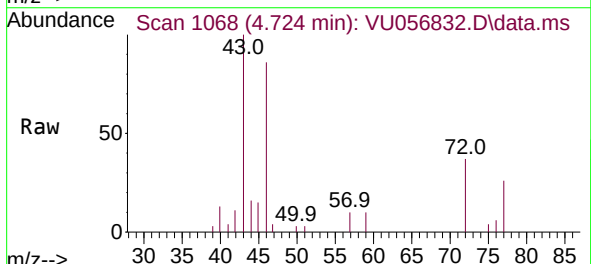
RT: 4.724 min Scan# 1068

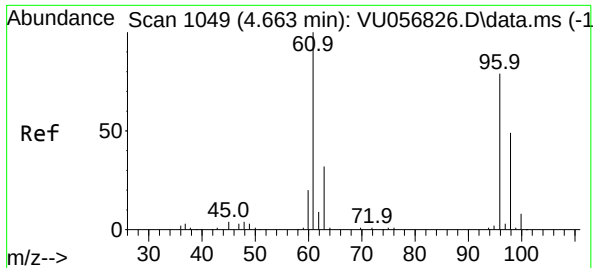
Delta R.T. 0.022 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

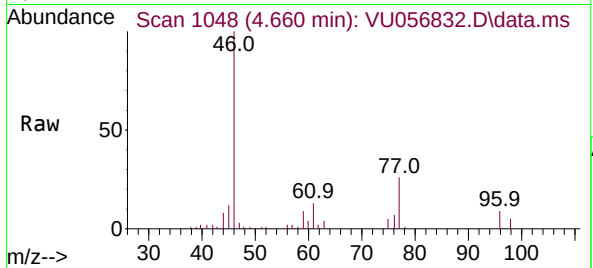
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 12706 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 72        | 20.1  | 14.6  | 43.8  |





#22  
cis-1,2-Dichloroethene  
Concen: 0.220 ug/L  
RT: 4.660 min Scan# 1048  
Delta R.T. -0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

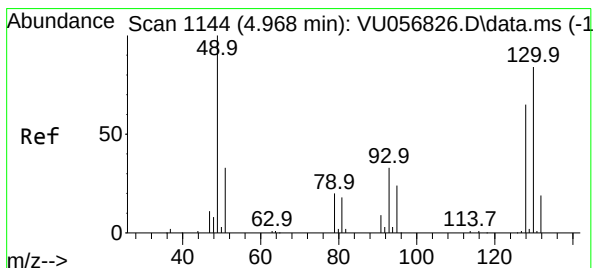
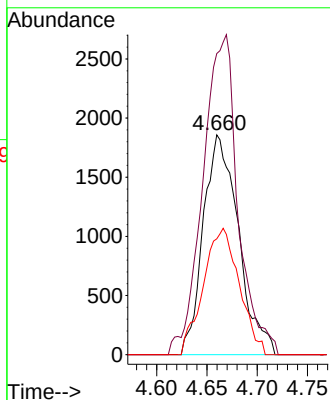
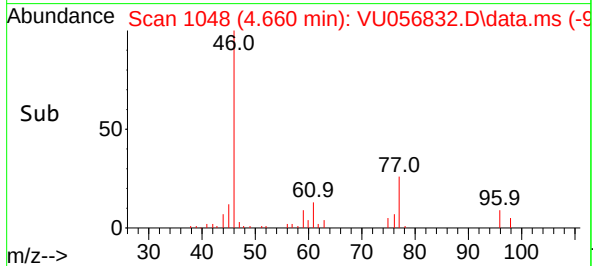
Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08



Tgt Ion: 96 Resp: 452  
Ion Ratio Lower Upper  
96 100  
61 137.0 91.3 169.6  
98 52.7 44.2 82.0

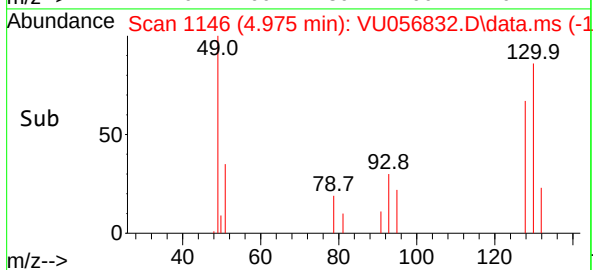
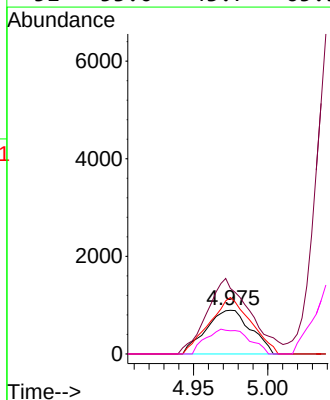
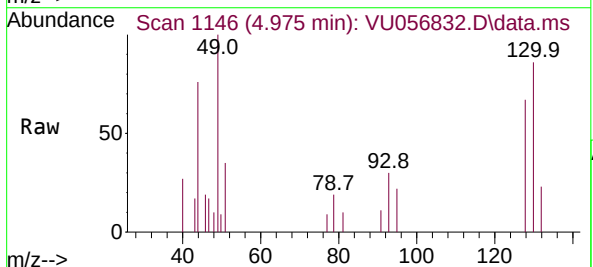
Manual Integrations  
APPROVED

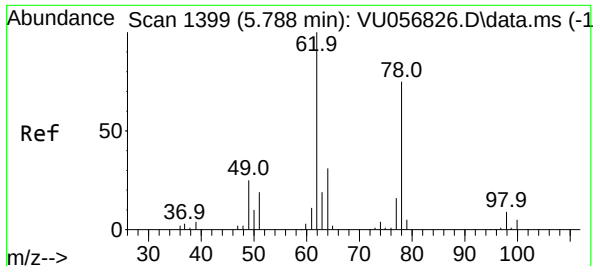
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#23  
Bromochloromethane  
Concen: 0.217 ug/L  
RT: 4.975 min Scan# 1146  
Delta R.T. 0.006 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Tgt Ion:128 Resp: 1870  
Ion Ratio Lower Upper  
128 100  
49 163.5 113.8 211.3  
130 129.5 90.6 168.3  
51 53.0 43.7 65.5





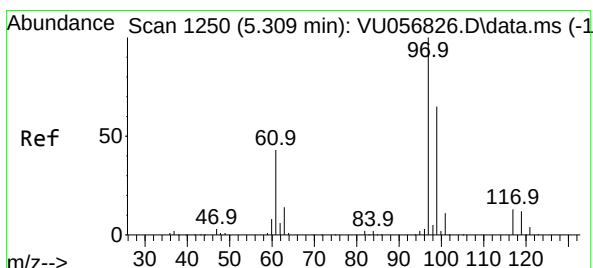
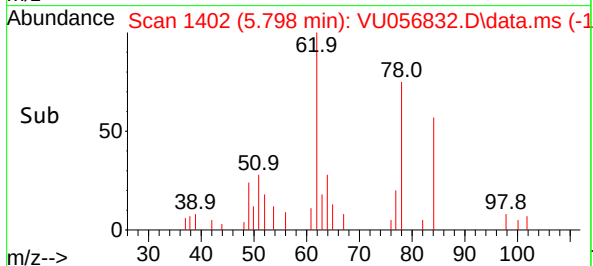
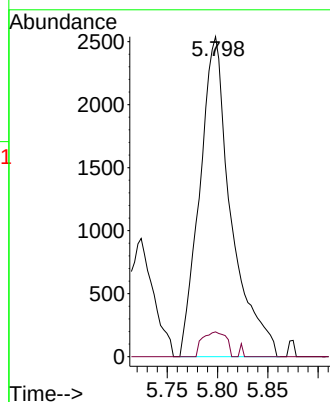
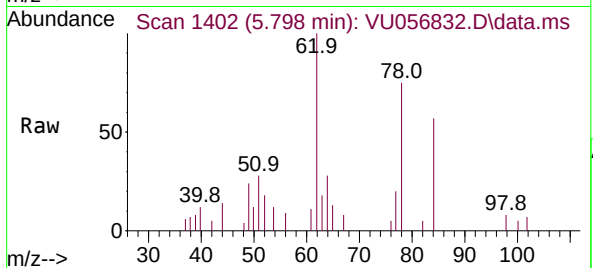
#27  
1,2-Dichloroethane  
Concen: 0.244 ug/L  
RT: 5.798 min Scan# 1402  
Delta R.T. 0.010 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

Tgt Ion: 62 Resp: 549  
Ion Ratio Lower Upper  
62 100  
98 7.8 7.8 11.6

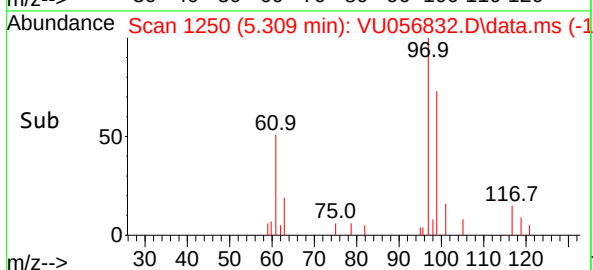
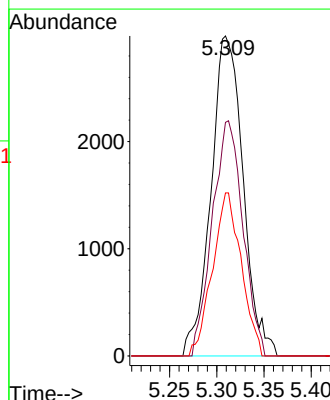
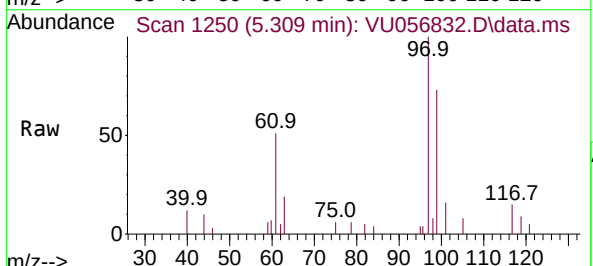
Manual Integrations  
APPROVED

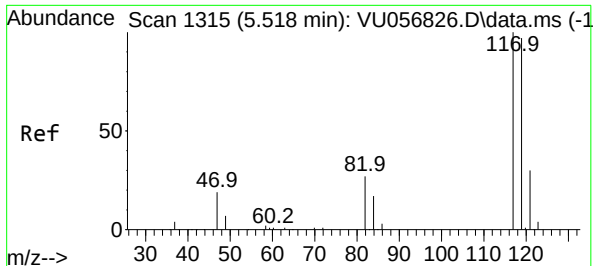
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#29  
1,1,1-Trichloroethane  
Concen: 0.208 ug/L  
RT: 5.309 min Scan# 1250  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Tgt Ion: 97 Resp: 7058  
Ion Ratio Lower Upper  
97 100  
99 70.0 52.5 78.7  
61 45.6 34.2 51.2





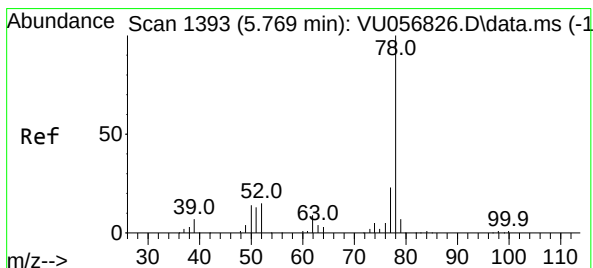
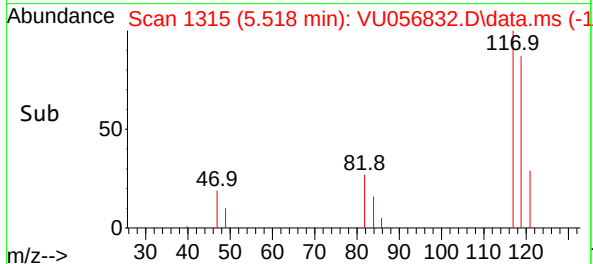
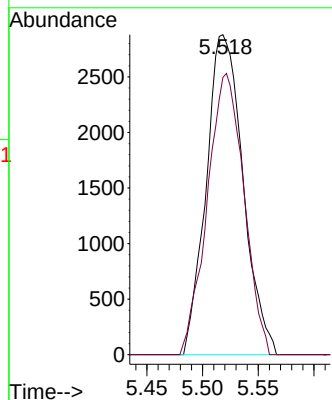
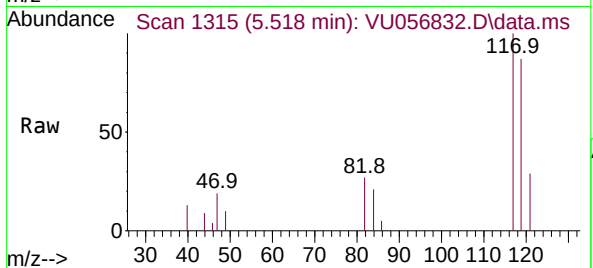
#31  
Carbon tetrachloride  
Concen: 0.224 ug/L  
RT: 5.518 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

Tgt Ion:117 Resp: 662  
Ion Ratio Lower Upper  
117 100  
119 87.2 76.2 114.4

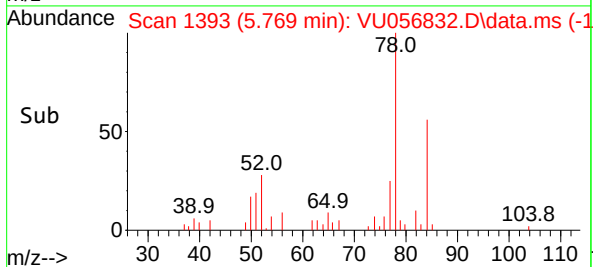
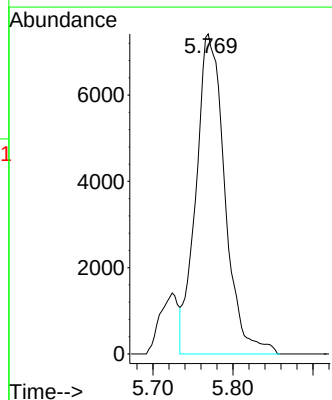
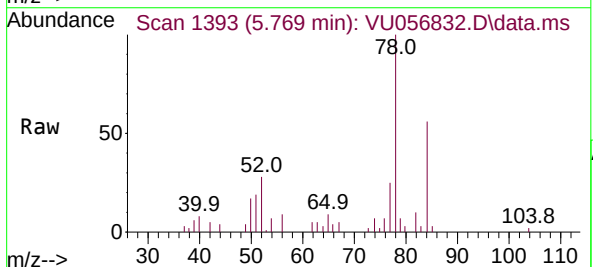
Manual Integrations  
APPROVED

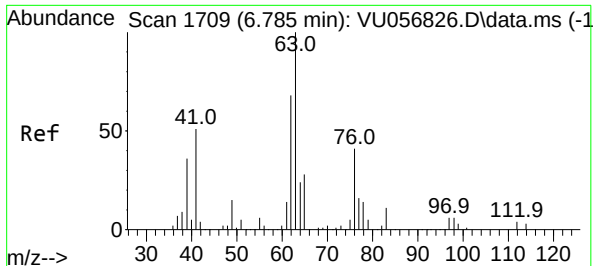
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#33  
Benzene  
Concen: 0.225 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Tgt Ion: 78 Resp: 18578





#37

1,2-Dichloropropane

Concen: 0.211 ug/L

RT: 6.782 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT4-2023-08

Tgt Ion: 63 Resp: 446

Ion Ratio Lower Upper

63 100

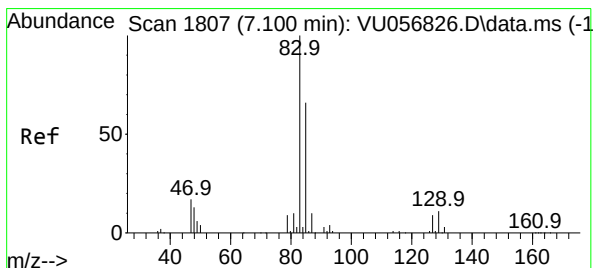
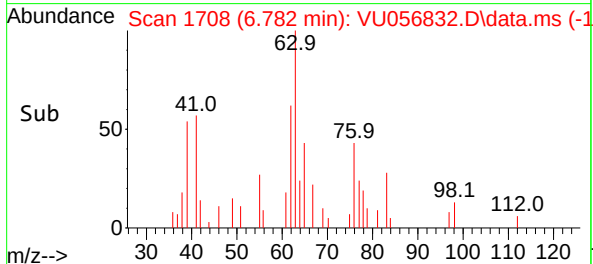
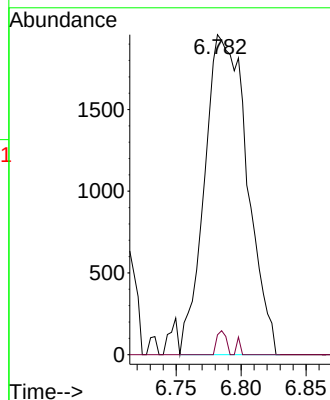
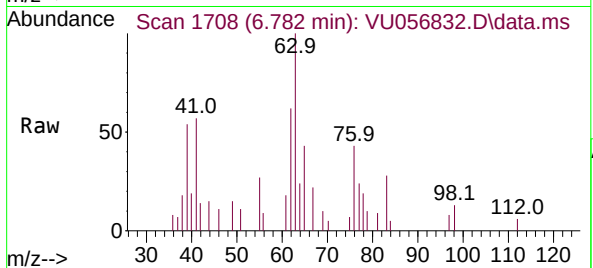
112 1.6 3.3 4.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023

Supervised By :Mahesh Dadoda 12/18/2023



#38

Bromodichloromethane

Concen: 0.225 ug/L

RT: 7.103 min Scan# 1808

Delta R.T. 0.003 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

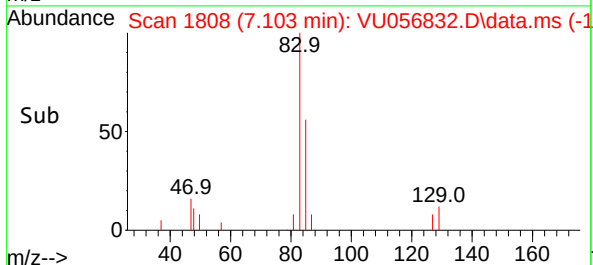
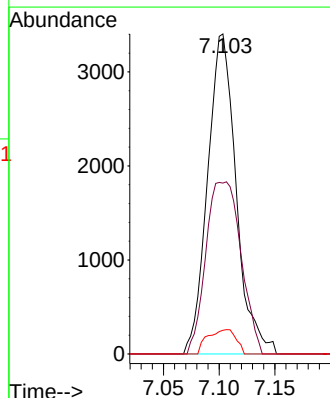
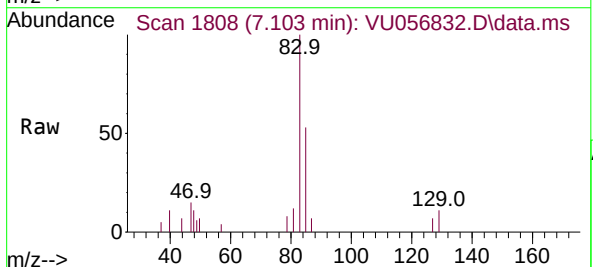
Tgt Ion: 83 Resp: 6066

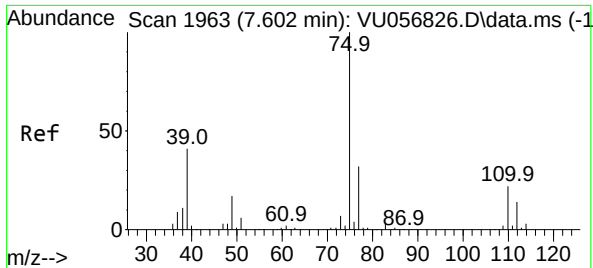
Ion Ratio Lower Upper

83 100

85 53.4 45.0 83.6

127 7.4 7.0 10.4





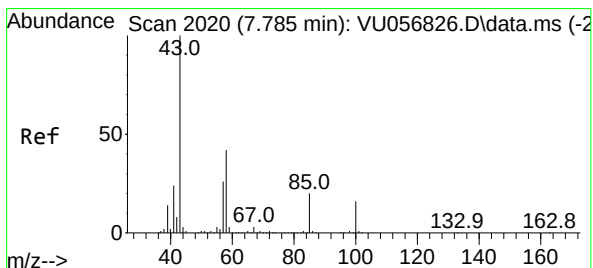
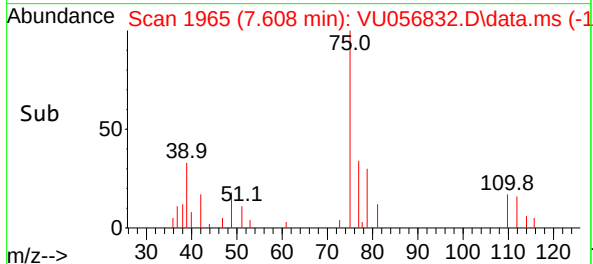
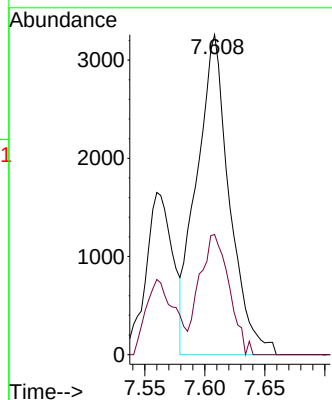
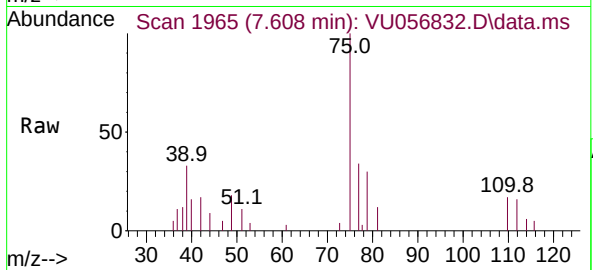
#39  
cis-1,3-Dichloropropene  
Concen: 0.201 ug/L  
RT: 7.608 min Scan# 1963  
Delta R.T. 0.006 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

Tgt Ion: 75 Resp: 619  
Ion Ratio Lower Upper  
75 100  
77 37.6 22.3 41.5

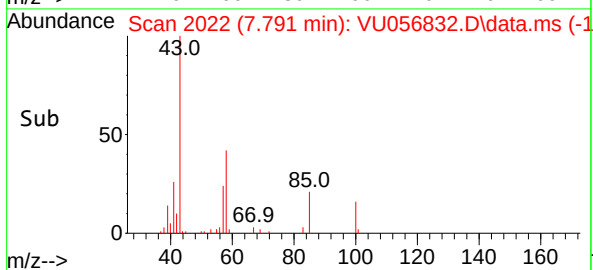
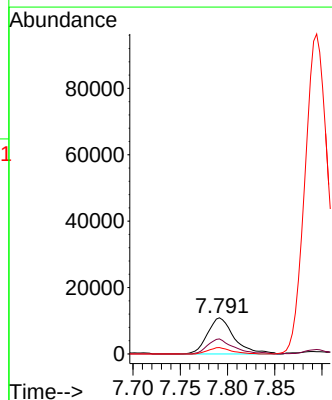
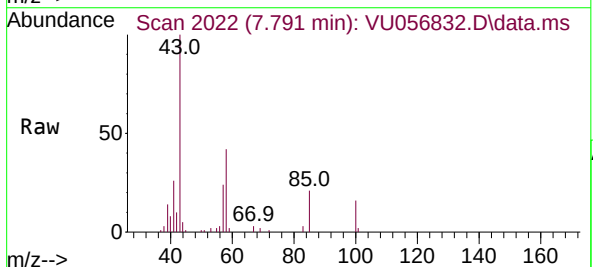
Manual Integrations  
APPROVED

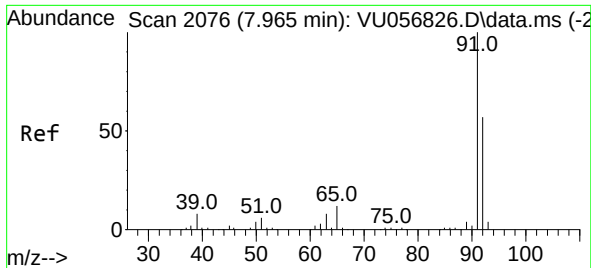
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#40  
4-Methyl-2-pentanone  
Concen: 2.127 ug/L  
RT: 7.791 min Scan# 2022  
Delta R.T. 0.006 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Tgt Ion: 43 Resp: 21359  
Ion Ratio Lower Upper  
43 100  
58 38.9 33.7 50.5  
100 0.0 13.0 19.4





#42

Toluene

Concen: 0.229 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT4-2023-08

Tgt Ion: 91 Resp: 1959

Ion Ratio Lower Upper

91 100

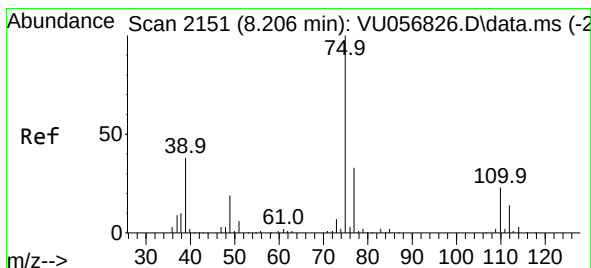
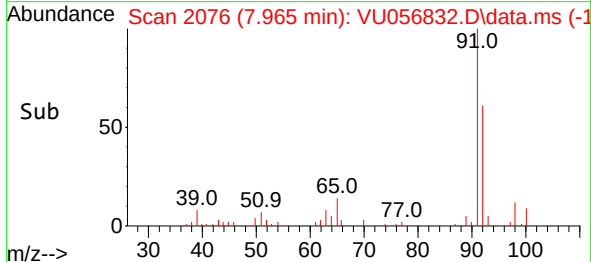
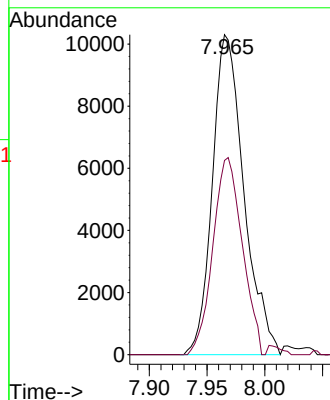
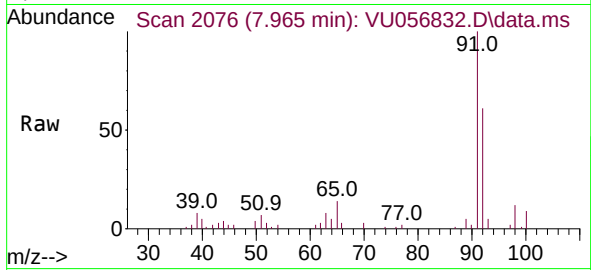
92 60.7 40.4 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023

Supervised By :Mahesh Dadoda 12/18/2023



#44

trans-1,3-Dichloropropene

Concen: 0.223 ug/L m

RT: 8.213 min Scan# 2153

Delta R.T. 0.006 min

Lab File: VU056832.D

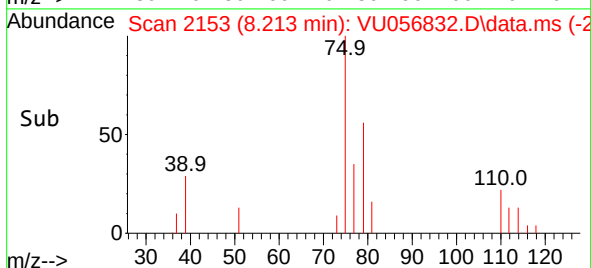
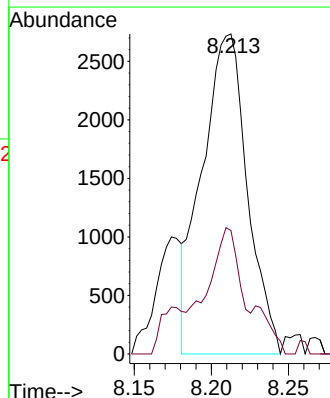
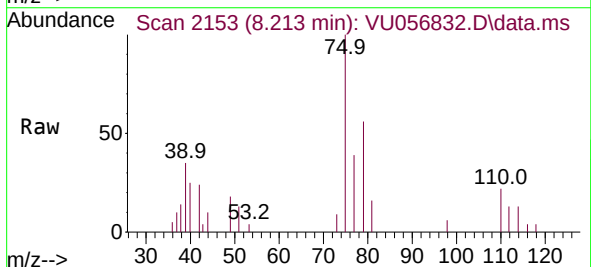
Acq: 14 Dec 2023 12:29

Tgt Ion: 75 Resp: 5623

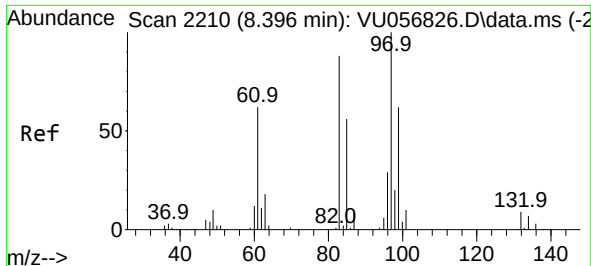
Ion Ratio Lower Upper

75 100

77 38.6 21.8 40.4







#45

1,1,2-Trichloroethane

Concen: 0.219 ug/L

RT: 8.399 min Scan# 2210

Delta R.T. 0.003 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

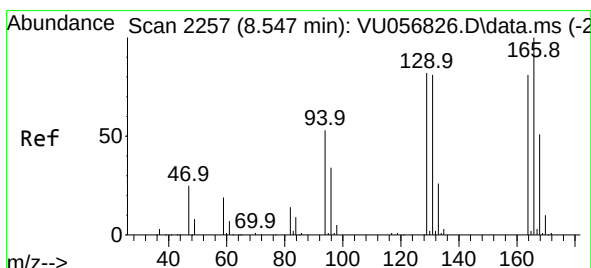
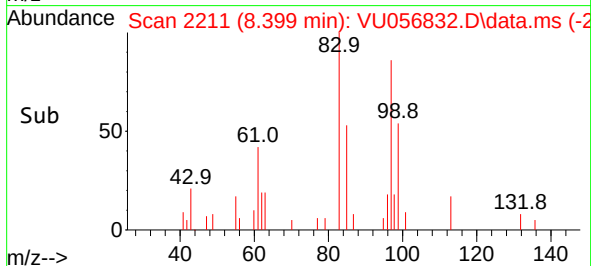
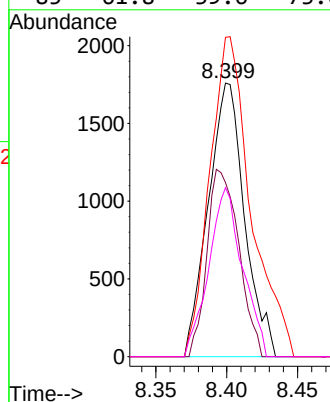
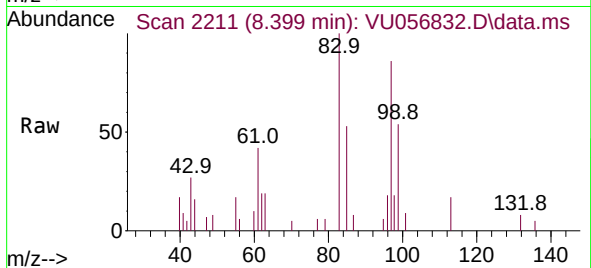
MDL-WATER-QT4-2023-08

|             |                  |
|-------------|------------------|
| Tgt Ion: 97 | Resp: 313        |
| Ion Ratio   | Lower Upper      |
| 97          | 100              |
| 99          | 63.6 41.9 77.9   |
| 83          | 116.7 59.1 109.7 |
| 85          | 61.8 39.6 73.6   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#47

Tetrachloroethene

Concen: 0.202 ug/L

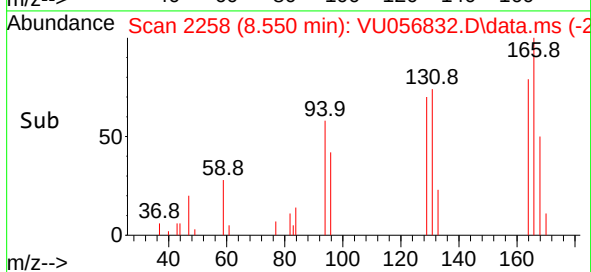
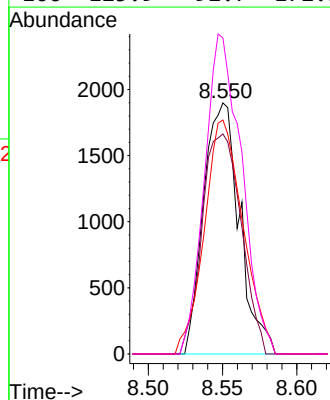
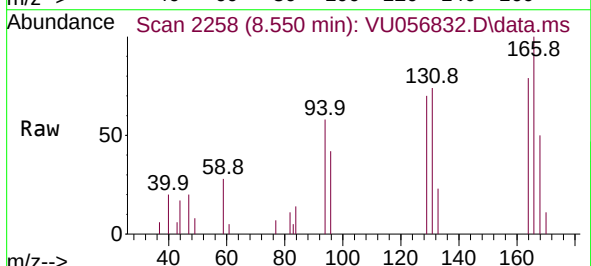
RT: 8.550 min Scan# 2258

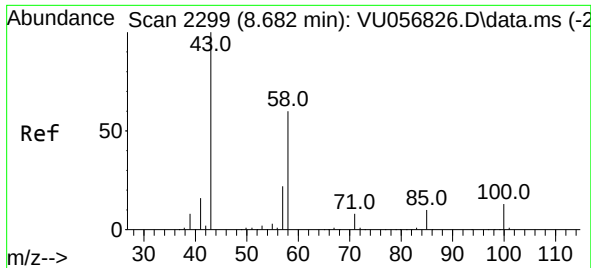
Delta R.T. 0.003 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

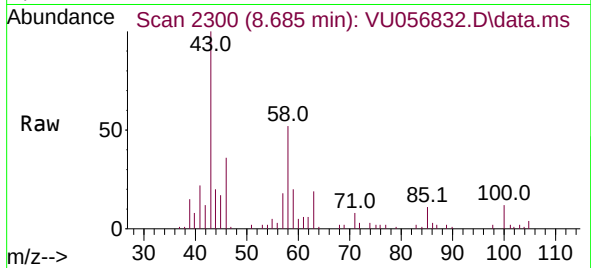
|             |                  |
|-------------|------------------|
| Tgt Ion:164 | Resp: 3201       |
| Ion Ratio   | Lower Upper      |
| 164         | 100              |
| 129         | 87.7 73.4 136.4  |
| 131         | 93.2 71.5 132.9  |
| 166         | 125.9 92.7 172.1 |





#48  
2-Hexanone  
Concen: 3.103 ug/L  
RT: 8.685 min Scan# 2299  
Delta R.T. 0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

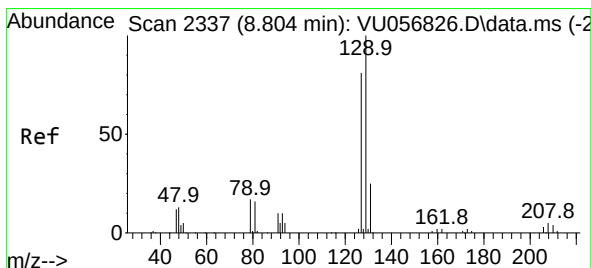
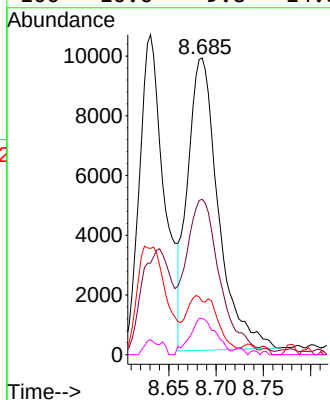
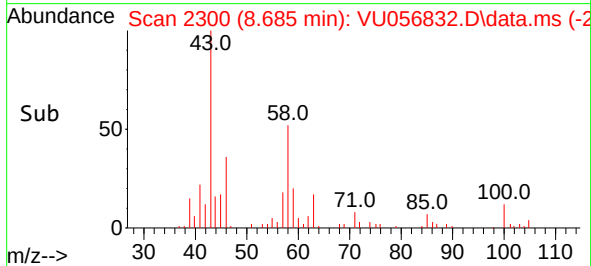
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08



Tgt Ion: 43 Resp: 2218  
Ion Ratio Lower Upper  
43 100  
58 55.5 47.5 71.3  
57 20.3 17.0 25.4  
100 10.6 9.8 14.8

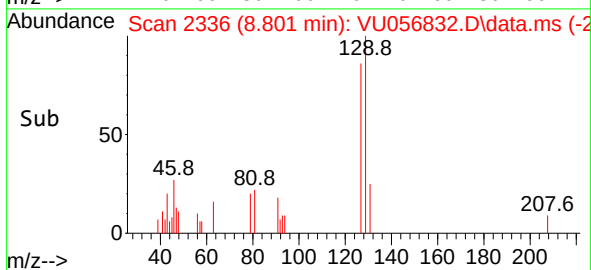
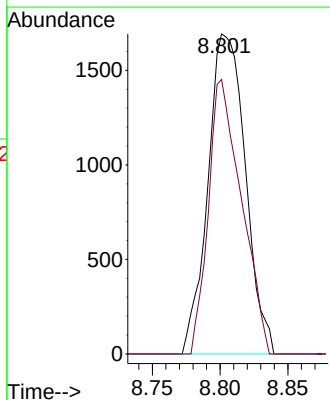
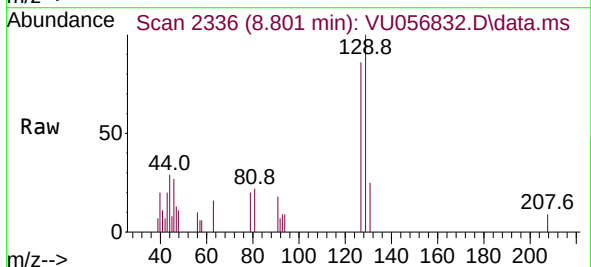
Manual Integrations  
APPROVED

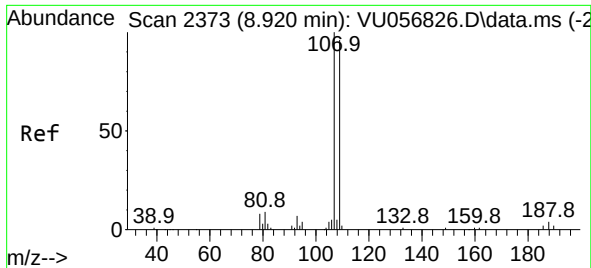
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#49  
Dibromochloromethane  
Concen: 0.198 ug/L  
RT: 8.801 min Scan# 2336  
Delta R.T. -0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

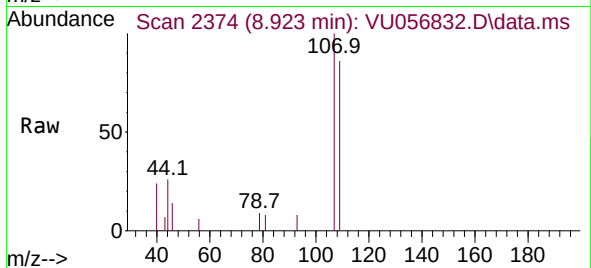
Tgt Ion:129 Resp: 3251  
Ion Ratio Lower Upper  
129 100  
127 85.8 53.9 100.1





#50  
1,2-Dibromoethane  
Concen: 0.228 ug/L  
RT: 8.923 min Scan# 2373  
Delta R.T. 0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

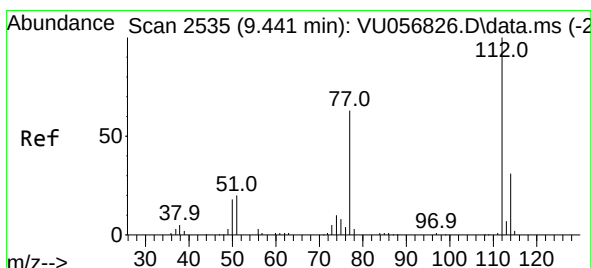
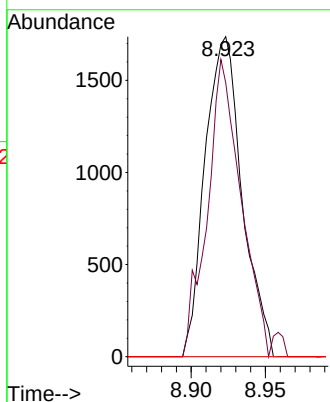
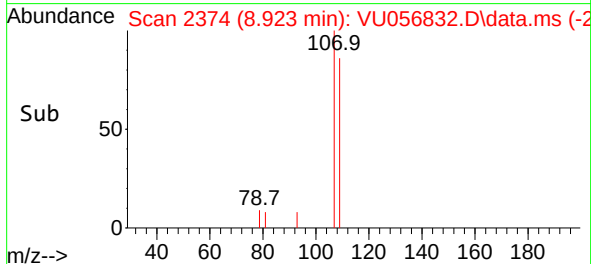
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-QT4-2023-08



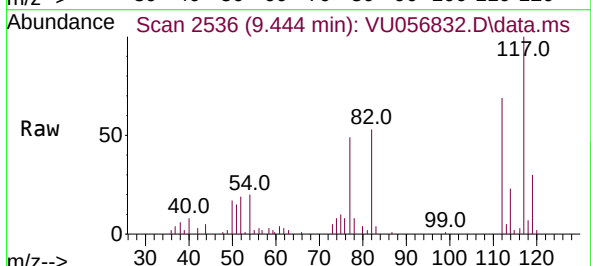
Tgt Ion:107 Resp: 3019  
Ion Ratio Lower Upper  
107 100  
109 85.6 66.5 123.5  
188 0.0 2.9 4.3

Manual Integrations  
APPROVED

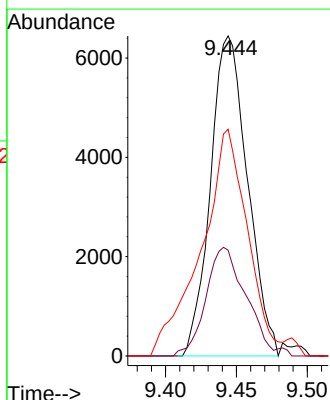
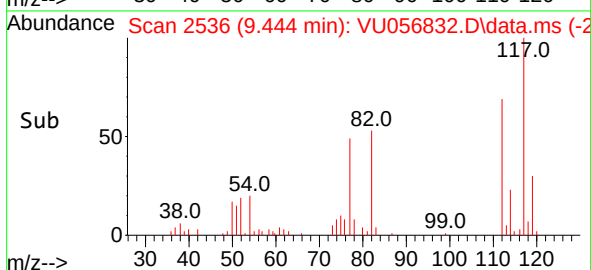
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023

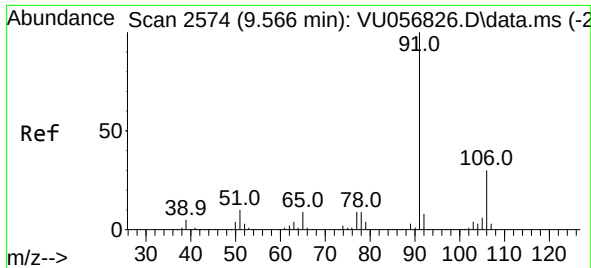


#51  
Chlorobenzene  
Concen: 0.215 ug/L  
RT: 9.444 min Scan# 2536  
Delta R.T. 0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29



Tgt Ion:112 Resp: 11741  
Ion Ratio Lower Upper  
112 100  
114 33.0 21.9 40.7  
77 70.8 51.6 77.4





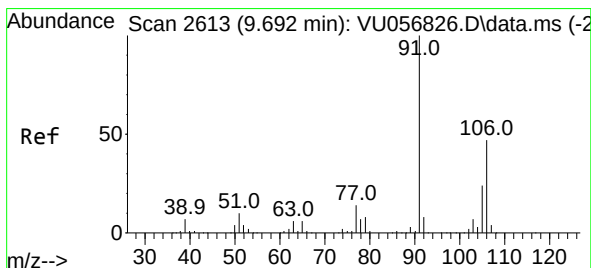
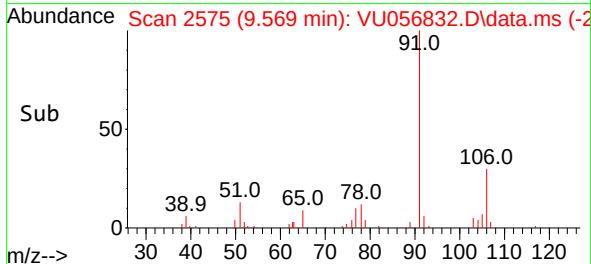
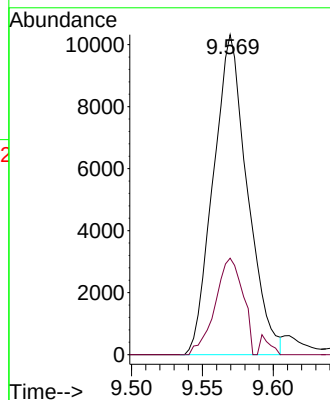
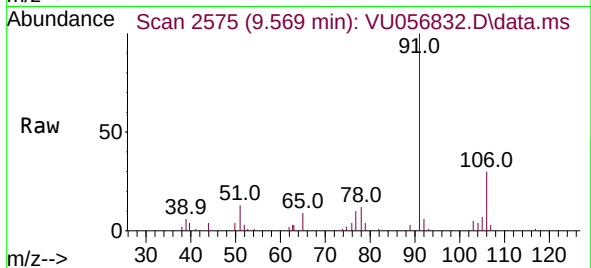
#52  
Ethylbenzene  
Concen: 0.183 ug/L  
RT: 9.569 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

Tgt Ion: 91 Resp: 17254  
Ion Ratio Lower Upper  
91 100  
106 30.2 20.6 38.4

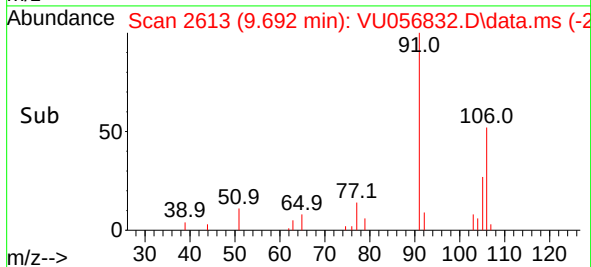
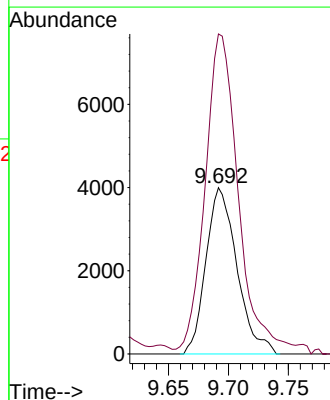
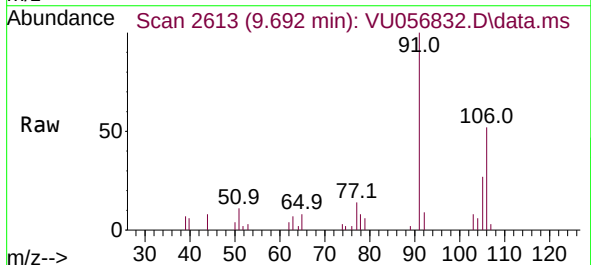
Manual Integrations  
APPROVED

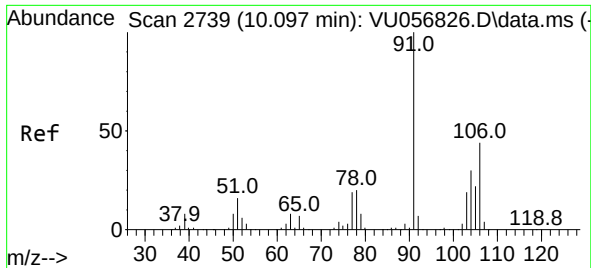
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#53  
m,p-Xylene  
Concen: 0.205 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Tgt Ion:106 Resp: 7189  
Ion Ratio Lower Upper  
106 100  
91 192.5 154.0 286.0





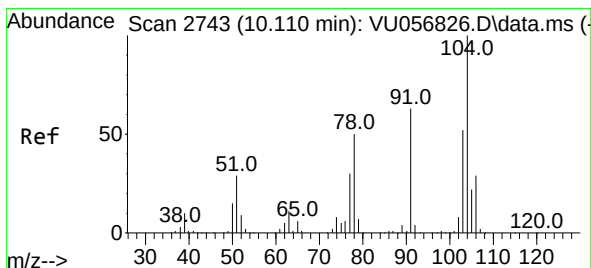
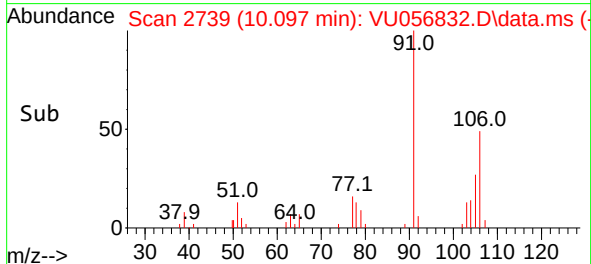
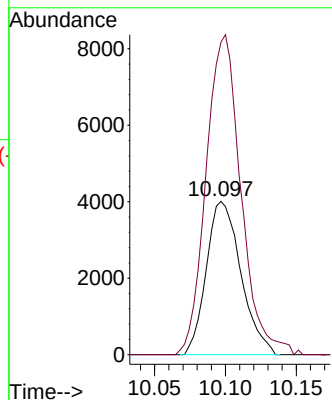
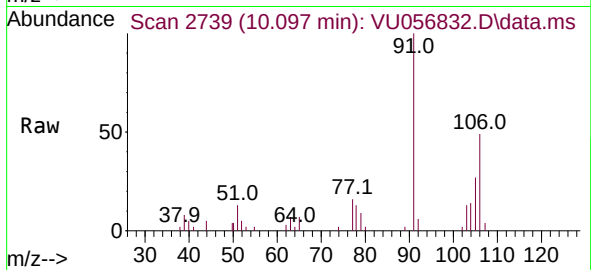
#54  
o-Xylene  
Concen: 0.203 ug/L  
RT: 10.097 min Scan# 2739  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Instrument : MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08

Tgt Ion:106 Resp: 680  
Ion Ratio Lower Upper  
106 100  
91 203.9 160.2 297.6

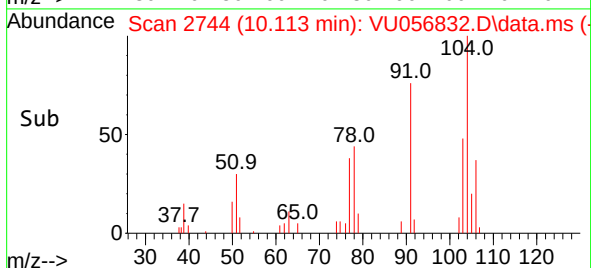
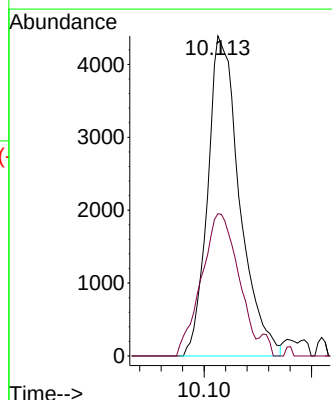
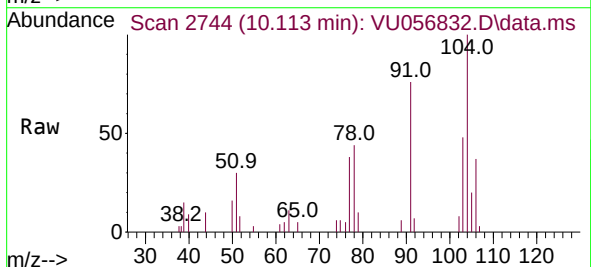
Manual Integrations  
APPROVED

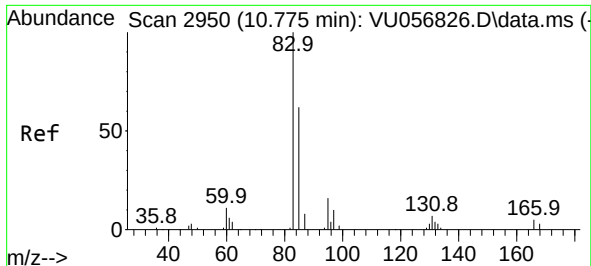
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#55  
Styrene  
Concen: 0.165 ug/L  
RT: 10.113 min Scan# 2744  
Delta R.T. 0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

Tgt Ion:104 Resp: 9070  
Ion Ratio Lower Upper  
104 100  
78 44.5 35.6 66.2





#57

1,1,2,2-Tetrachloroethane

Concen: 0.219 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. -0.000 min

Lab File: VU056832.D

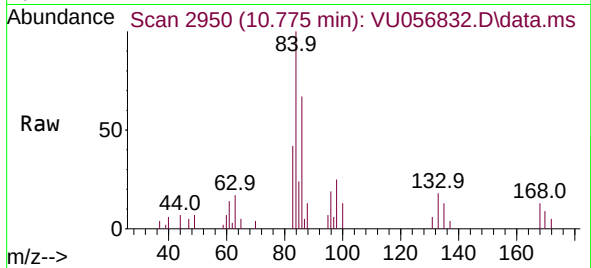
Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT4-2023-08



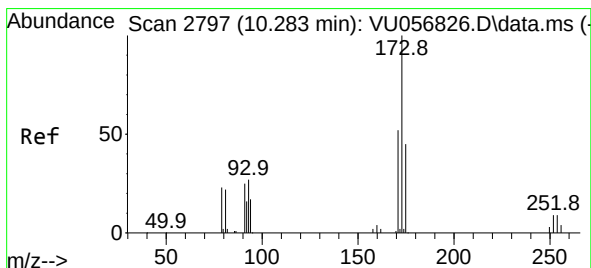
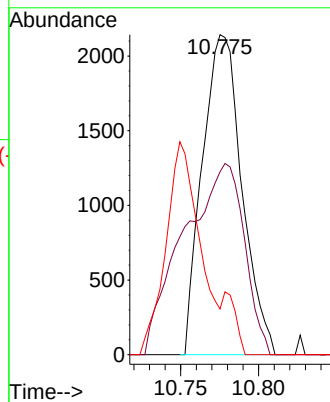
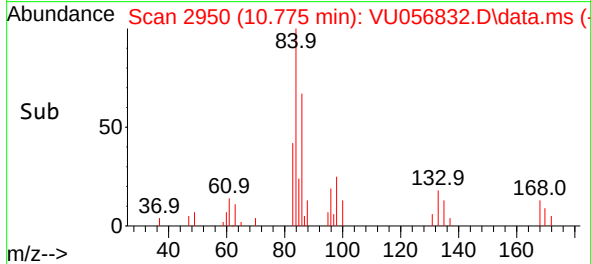
| Tgt Ion:  | 83    | Resp: | 377  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 85        | 57.2  | 45.4  | 84.4 |
| 131       | 14.3  | 6.6   | 9.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023

Supervised By :Mahesh Dadoda 12/18/2023



#59

Bromoform

Concen: 0.241 ug/L

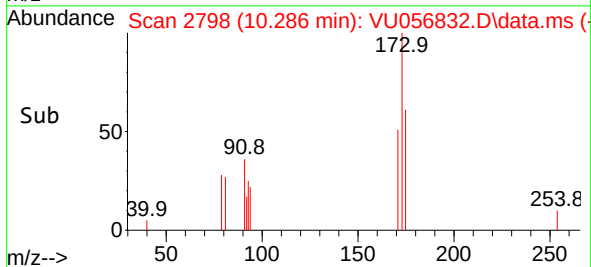
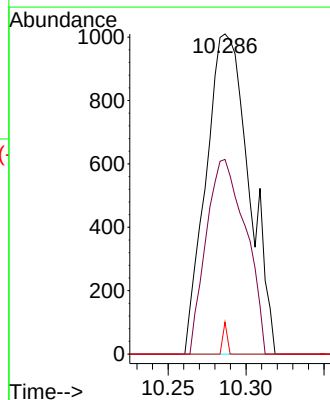
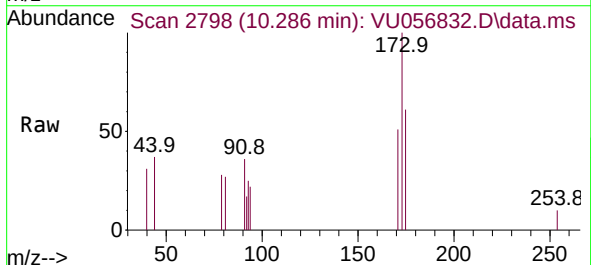
RT: 10.286 min Scan# 2798

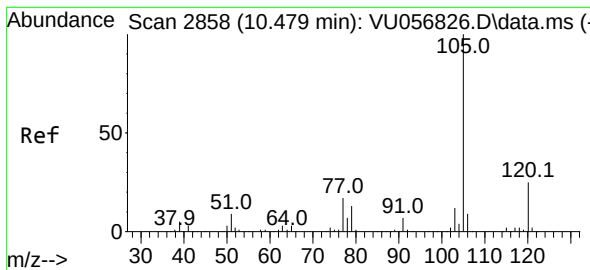
Delta R.T. 0.003 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

| Tgt Ion:  | 173   | Resp: | 1938 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 173       | 100   |       |      |
| 175       | 55.9  | 38.2  | 57.2 |
| 254       | 1.0   | 7.0   | 10.4 |





#60

Isopropylbenzene

Concen: 0.187 ug/L

RT: 10.479 min Scan# 2858

Delta R.T. -0.000 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

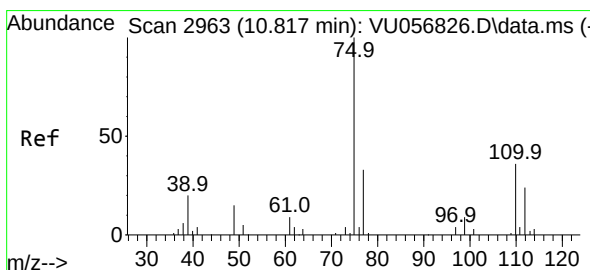
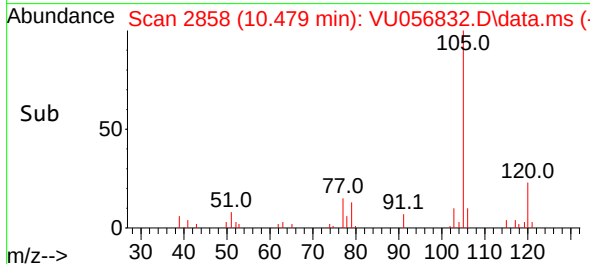
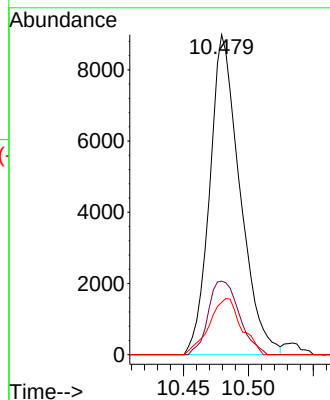
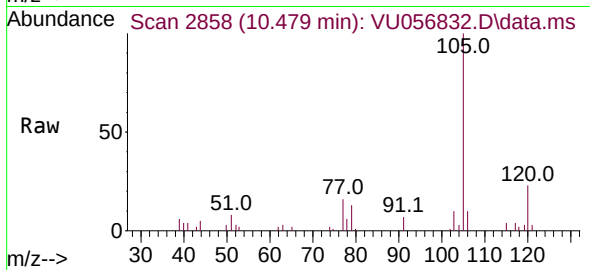
MDL-WATER-QT4-2023-08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 1450 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 23.6  | 20.1  | 30.1 |
| 77        | 18.6  | 13.2  | 19.8 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#61

1,2,3-Trichloropropane

Concen: 0.210 ug/L

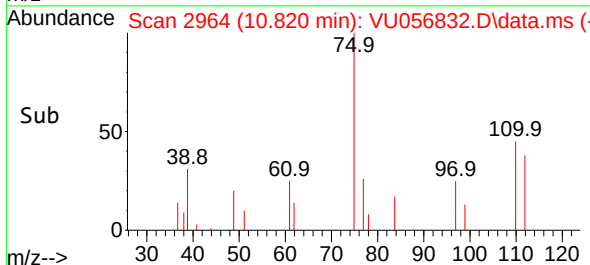
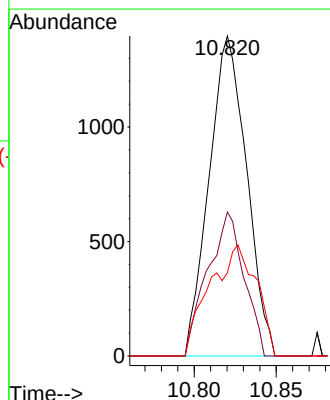
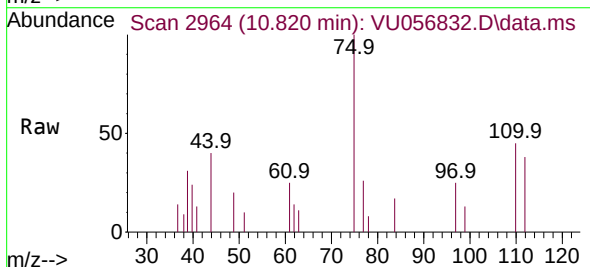
RT: 10.820 min Scan# 2964

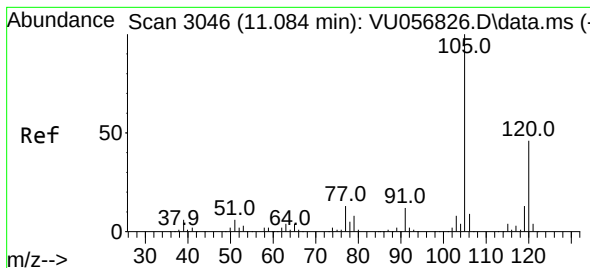
Delta R.T. 0.003 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 2218  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 43.6  | 28.4  | 42.6# |
| 77        | 43.0  | 26.3  | 39.5# |





#62

1,3,5-Trimethylbenzene

Concen: 0.180 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. -0.000 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-QT4-2023-08

Tgt Ion:105 Resp: 11449

Ion Ratio Lower Upper

105 100

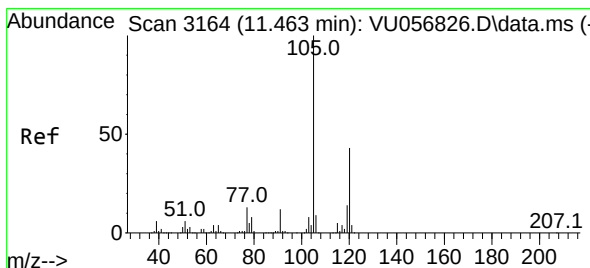
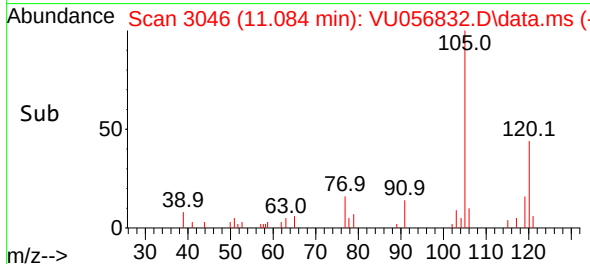
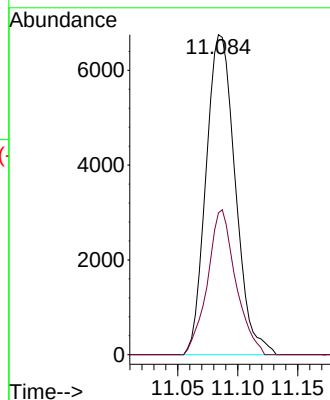
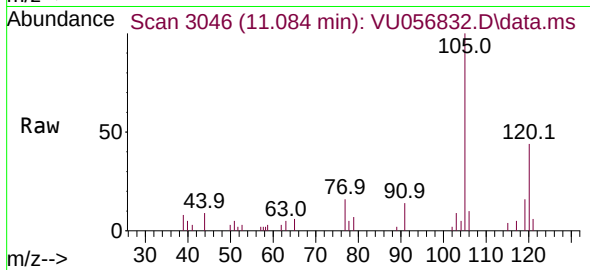
120 43.7 36.8 55.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023

Supervised By :Mahesh Dadoda 12/18/2023



#63

1,2,4-Trimethylbenzene

Concen: 0.174 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU056832.D

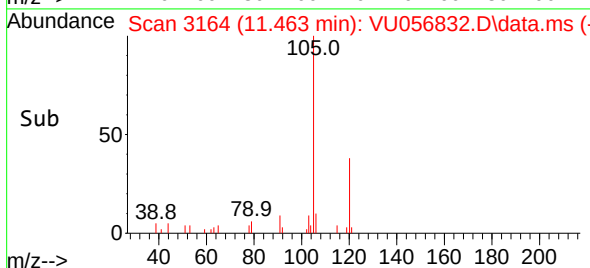
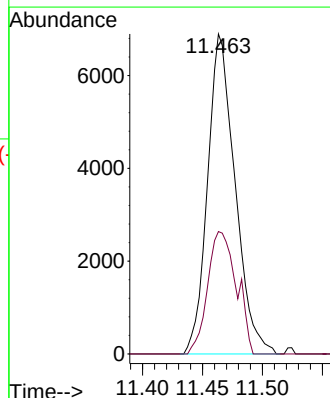
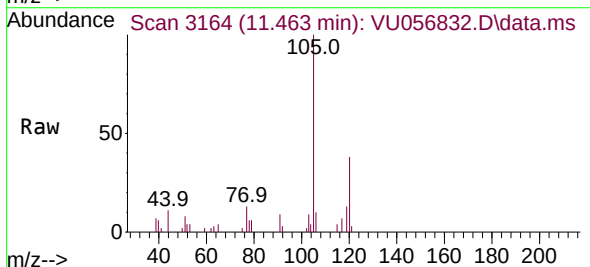
Acq: 14 Dec 2023 12:29

Tgt Ion:105 Resp: 10983

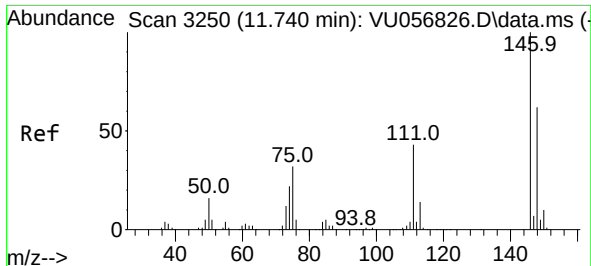
Ion Ratio Lower Upper

105 100

120 40.2 34.2 51.4

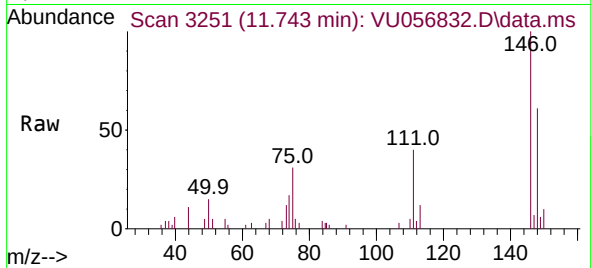






#64  
1,3-Dichlorobenzene  
Concen: 0.248 ug/L  
RT: 11.743 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29

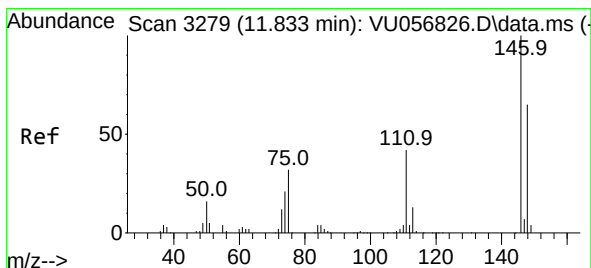
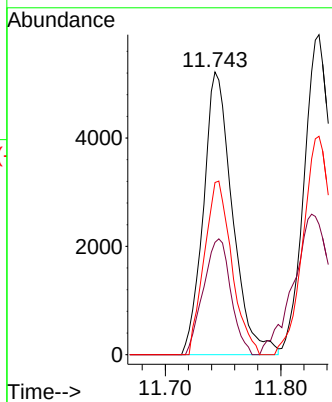
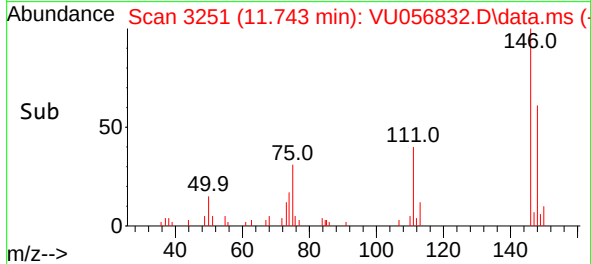
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-QT4-2023-08



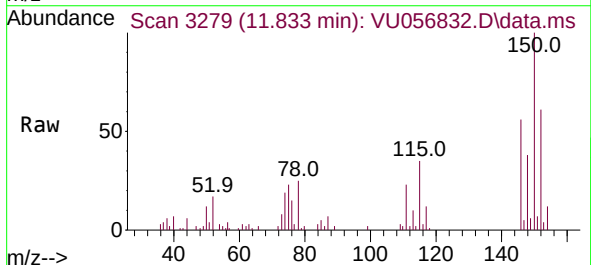
Tgt Ion:146 Resp: 910  
Ion Ratio Lower Upper  
146 100  
111 39.7 31.7 58.9  
148 60.9 44.3 82.3

Manual Integrations  
APPROVED

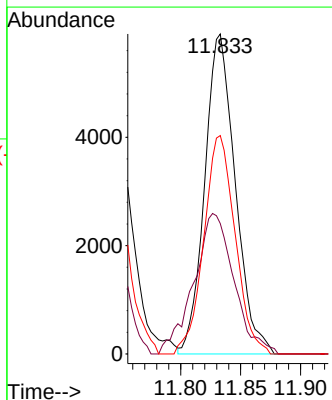
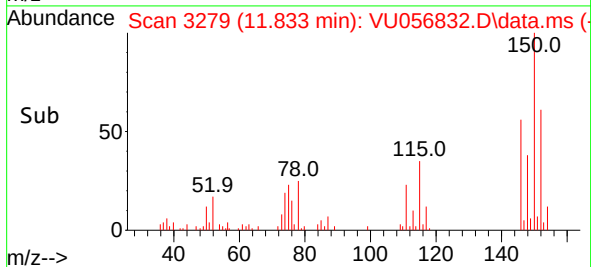
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023

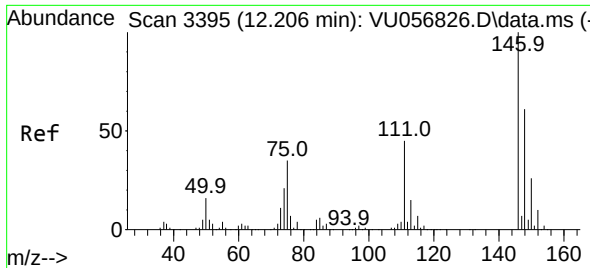


#65  
1,4-Dichlorobenzene  
Concen: 0.290 ug/L  
RT: 11.833 min Scan# 3279  
Delta R.T. -0.000 min  
Lab File: VU056832.D  
Acq: 14 Dec 2023 12:29



Tgt Ion:146 Resp: 10475  
Ion Ratio Lower Upper  
146 100  
111 40.8 31.2 58.0  
148 68.2 45.6 84.8





#67

1,2-Dichlorobenzene

Concen: 0.358 ug/L

RT: 12.206 min Scan# 3111

Delta R.T. -0.000 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

Instrument :

MSVOA\_U

ClientSampleId :

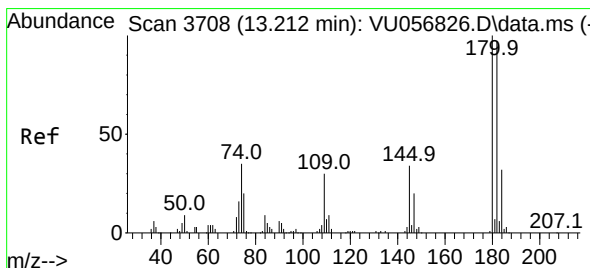
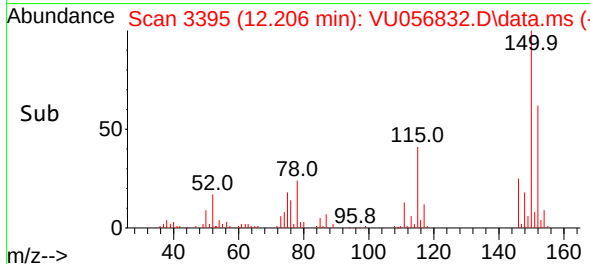
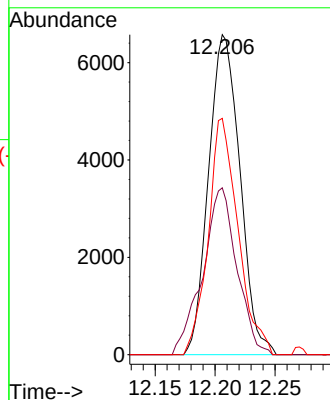
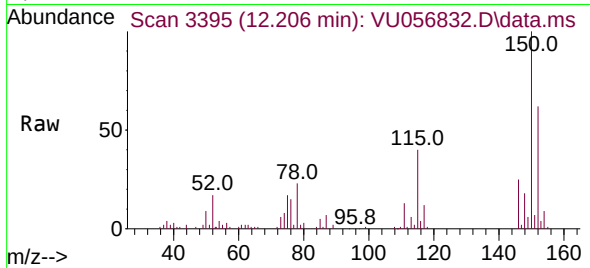
MDL-WATER-QT4-2023-08

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 1197      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 52.1  | 36.9 55.3 |
| 148         | 73.9  | 53.0 79.4 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#69

1,3,5-Trichlorobenzene

Concen: 0.191 ug/L

RT: 13.222 min Scan# 3711

Delta R.T. 0.010 min

Lab File: VU056832.D

Acq: 14 Dec 2023 12:29

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 5290       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 88.6  | 76.2 114.4 |
| 184         | 28.5  | 24.6 37.0  |
| 145         | 28.1  | 26.7 40.1  |

