

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071223\  
 Data File : VN078478.D  
 Acq On : 12 Jul 2023 13:29  
 Operator : JC\MD  
 Sample : 03572-09 .2PPB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT3-2023

Quant Time: Jul 13 04:31:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 13 04:30:43 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/13/2023  
 Supervised By : Mahesh Dadoda 07/13/2023

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.235          | 168  | 415954              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.112          | 114  | 755327              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 632399              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 180114              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 322493              | 57.833 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 115.660% |        |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 273272              | 53.296 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 106.600% |        |        |          |
| 50) Toluene-d8               | 10.570         | 98   | 973041              | 50.235 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 100.480% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.859         | 95   | 266024              | 44.588 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 89.180%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 1612                | 0.316  | ug/l # | 63       |
| 3) Chloromethane             | 2.377          | 50   | 2728                | 0.492  | ug/l   | 90       |
| 4) Vinyl Chloride            | 2.524          | 62   | 2212                | 0.308  | ug/l # | 42       |
| 5) Bromomethane              | 2.965          | 94   | 3914                | 0.764  | ug/l   | 98       |
| 6) Chloroethane              | 3.147          | 64   | 4631                | 0.956  | ug/l # | 47       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 2261                | 0.264  | ug/l # | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 1077                | 0.237  | ug/l # | 44       |
| 10) Methyl Iodide            | 4.594          | 142  | 2152m               | 0.345  | ug/l   |          |
| 11) Tert butyl alcohol       | 5.559          | 59   | 1300m               | 1.512  | ug/l   |          |
| 13) Acrolein                 | 4.200          | 56   | 1065                | 1.259  | ug/l   | 87       |
| 15) Acrylonitrile            | 5.747          | 53   | 2400                | 1.105  | ug/l   | 97       |
| 16) Acetone                  | 4.459          | 43   | 1414                | 0.814  | ug/l # | 87       |
| 17) Carbon Disulfide         | 4.724          | 76   | 4982                | 0.393  | ug/l # | 78       |
| 20) Methylene Chloride       | 5.288          | 84   | 2846                | 0.508  | ug/l # | 87       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 1024                | 0.207  | ug/l # | 78       |
| 23) Vinyl Acetate            | 6.624          | 43   | 8591                | 1.006  | ug/l # | 83       |
| 25) 2-Butanone               | 7.506          | 43   | 2925                | 1.070  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.506          | 96   | 1408                | 0.246  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.818          | 49   | 894                 | 0.210  | ug/l # | 75       |
| 29) Tetrahydrofuran          | 7.859          | 42   | 2035                | 1.134  | ug/l # | 63       |
| 30) Chloroform               | 7.982          | 83   | 2771                | 0.294  | ug/l # | 64       |
| 31) Cyclohexane              | 8.235          | 56   | 10173               | 1.350  | ug/l # | 56       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 1818                | 0.246  | ug/l # | 78       |
| 38) Carbon Tetrachloride     | 8.376          | 117  | 1928                | 0.240  | ug/l # | 90       |
| 39) Methylcyclohexane        | 9.606          | 83   | 1510                | 0.223  | ug/l # | 71       |
| 40) Benzene                  | 8.606          | 78   | 4764                | 0.217  | ug/l   | 91       |
| 42) 1,2-Dichloroethane       | 8.682          | 62   | 2267                | 0.304  | ug/l   | 82       |
| 44) Trichloroethene          | 9.365          | 130  | 1775                | 0.300  | ug/l   | 79       |
| 45) 1,2-Dichloropropane      | 9.635          | 63   | 1225                | 0.221  | ug/l   | 94       |
| 46) Dibromomethane           | 9.712          | 93   | 1293                | 0.331  | ug/l # | 71       |
| 47) Bromodichloromethane     | 9.900          | 83   | 1573                | 0.201  | ug/l # | 87       |
| 48) Methyl methacrylate      | 9.688          | 41   | 963                 | 0.205  | ug/l # | 81       |
| 49) 1,4-Dioxane              | 9.712          | 88   | 299                 | 2.913  | ug/l # | 62       |
| 51) 4-Methyl-2-Pentanone     | 10.453         | 43   | 6948                | 1.150  | ug/l   | 93       |
| 52) Toluene                  | 10.629         | 92   | 4192                | 0.308  | ug/l # | 64       |
| 53) t-1,3-Dichloropropene    | 10.835         | 75   | 1913                | 0.238  | ug/l # | 87       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071223\  
 Data File : VN078478.D  
 Acq On : 12 Jul 2023 13:29  
 Operator : JC\MD  
 Sample : 03572-09 .2PPB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT3-2023

Quant Time: Jul 13 04:31:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 13 04:30:43 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

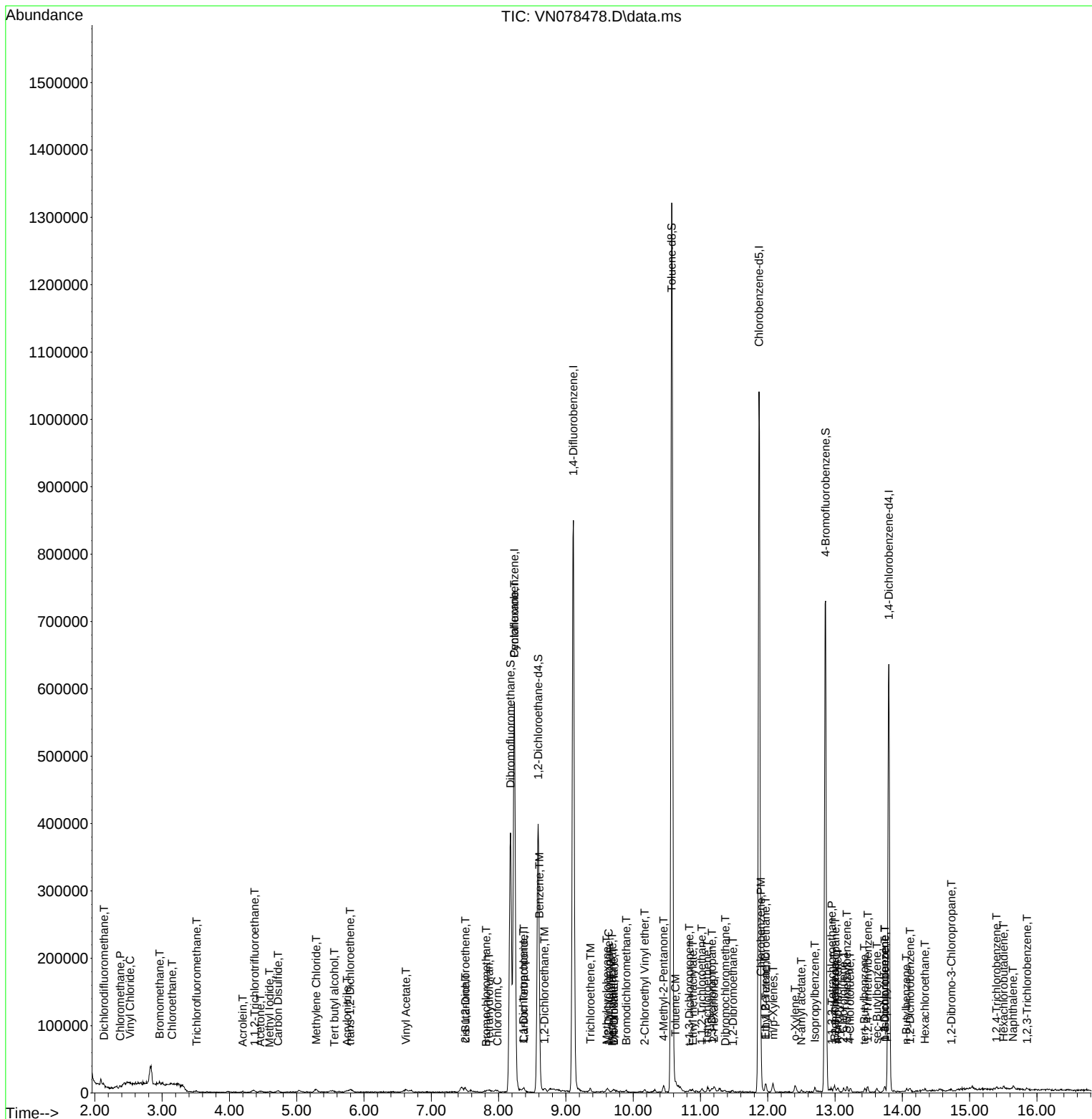
Reviewed By :John Carlone 07/13/2023  
 Supervised By :Mahesh Dadoda 07/13/2023

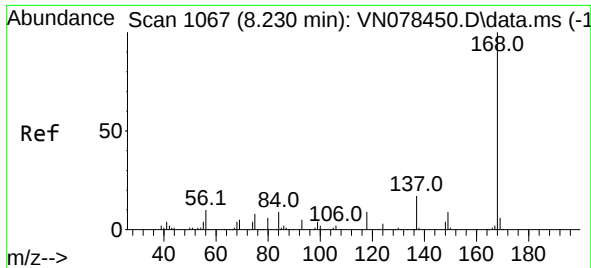
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 1334     | 0.249 | ug/l # | 82       |
| 56) Ethyl methacrylate        | 10.888 | 69   | 1570     | 0.210 | ug/l # | 60       |
| 57) 1,3-Dichloropropane       | 11.170 | 76   | 2316     | 0.254 | ug/l # | 72       |
| 58) 2-Chloroethyl Vinyl ether | 10.170 | 63   | 2073     | 0.777 | ug/l   | 91       |
| 59) 2-Hexanone                | 11.200 | 43   | 5177     | 1.205 | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.370 | 129  | 1246     | 0.211 | ug/l   | 93       |
| 61) 1,2-Dibromoethane         | 11.482 | 107  | 1258     | 0.228 | ug/l   | 91       |
| 64) Tetrachloroethene         | 11.100 | 164  | 1398     | 0.294 | ug/l # | 37       |
| 65) Chlorobenzene             | 11.900 | 112  | 4240     | 0.300 | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane | 11.970 | 131  | 1480     | 0.272 | ug/l # | 60       |
| 67) Ethyl Benzene             | 11.964 | 91   | 5831     | 0.244 | ug/l # | 80       |
| 68) m/p-Xylenes               | 12.082 | 106  | 4048     | 0.458 | ug/l   | 99       |
| 69) o-Xylene                  | 12.406 | 106  | 1862     | 0.209 | ug/l   | 85       |
| 73) Isopropylbenzene          | 12.700 | 105  | 4017     | 0.237 | ug/l   | 91       |
| 74) N-amyl acetate            | 12.500 | 43   | 2039     | 0.350 | ug/l # | 72       |
| 75) 1,1,2,2-Tetrachloroethane | 12.953 | 83   | 1941     | 0.340 | ug/l # | 27       |
| 76) 1,2,3-Trichloropropane    | 13.006 | 75   | 2228m    | 0.512 | ug/l   |          |
| 77) Bromobenzene              | 12.994 | 156  | 1508     | 0.363 | ug/l   | 89       |
| 78) n-propylbenzene           | 13.035 | 91   | 5019     | 0.277 | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 3167     | 0.267 | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 3879     | 0.290 | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 3186     | 0.288 | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 2547     | 0.224 | ug/l # | 71       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 3465     | 0.267 | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 3676     | 0.256 | ug/l # | 75       |
| 86) p-Isopropyltoluene        | 13.741 | 119  | 2488     | 0.216 | ug/l   | 89       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 1973     | 0.304 | ug/l   | 87       |
| 88) 1,4-Dichlorobenzene       | 13.741 | 146  | 1973     | 0.301 | ug/l   | 88       |
| 89) n-Butylbenzene            | 14.058 | 91   | 2365     | 0.287 | ug/l   | 84       |
| 90) Hexachloroethane          | 14.335 | 117  | 785      | 0.322 | ug/l   | 70       |
| 91) 1,2-Dichlorobenzene       | 14.117 | 146  | 1686     | 0.261 | ug/l # | 68       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 657      | 0.697 | ug/l # | 41       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 744      | 0.361 | ug/l # | 82       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 764      | 0.566 | ug/l   | 86       |
| 95) Naphthalene               | 15.647 | 128  | 4172     | 0.591 | ug/l # | 93       |
| 96) 1,2,3-Trichlorobenzene    | 15.852 | 180  | 1201     | 0.506 | ug/l # | 70       |

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

## Manual Integrations APPROVED

Quant Time: Jul 13 04:31:39 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 13 04:30:43 2023  
Response via : Initial Calibration





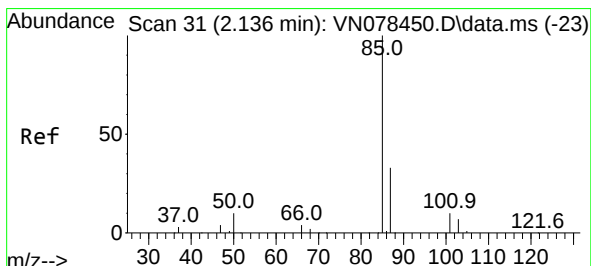
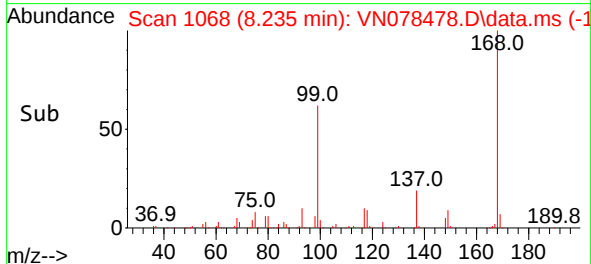
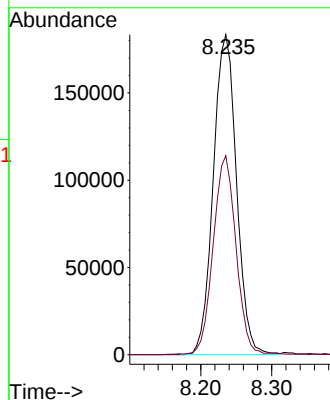
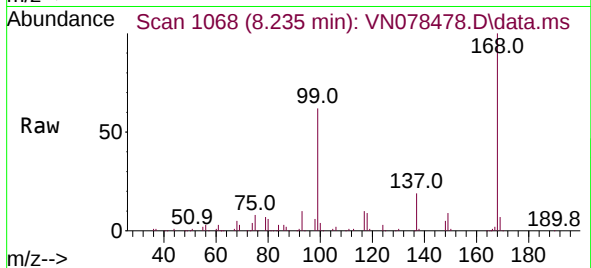
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Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 1067  
Delta R.T. 0.005 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023

Tgt Ion:168 Resp: 415954  
Ion Ratio Lower Upper  
168 100  
99 61.9 53.0 79.6

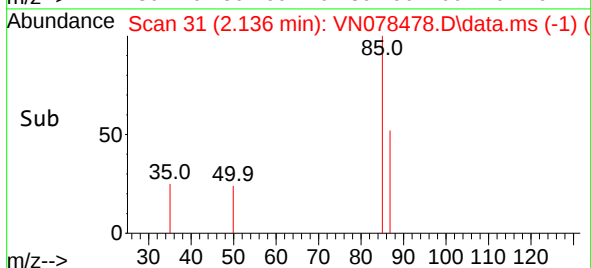
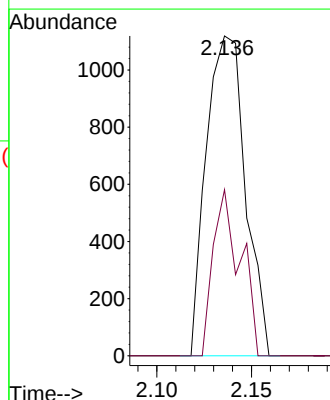
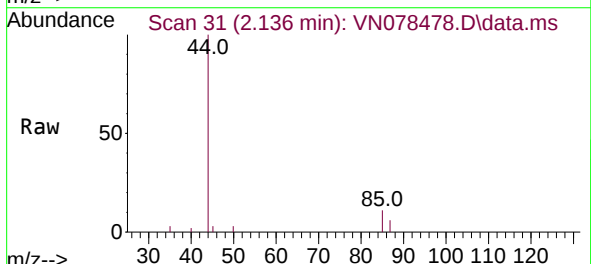
Manual Integrations  
APPROVED

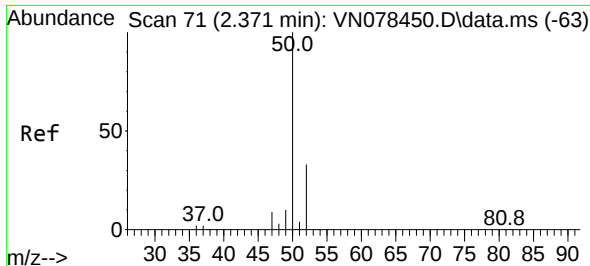
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#2  
Dichlorodifluoromethane  
Concen: 0.316 ug/l  
RT: 2.136 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

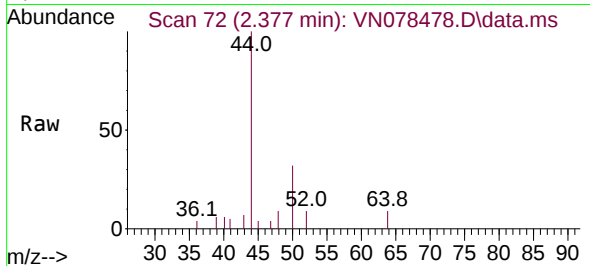
Tgt Ion: 85 Resp: 1612  
Ion Ratio Lower Upper  
85 100  
87 51.9 15.8 47.4





#3  
Chloromethane  
Concen: 0.492 ug/l  
RT: 2.377 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

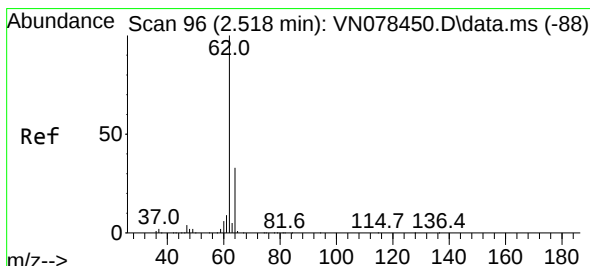
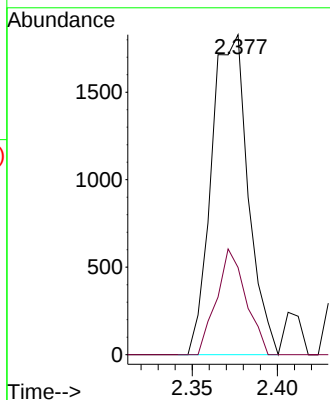
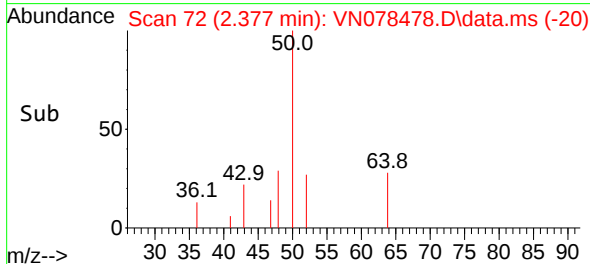
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 50 Resp: 2728  
Ion Ratio Lower Upper  
50 100  
52 27.2 26.5 39.7

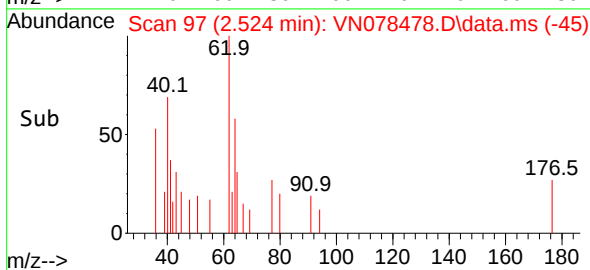
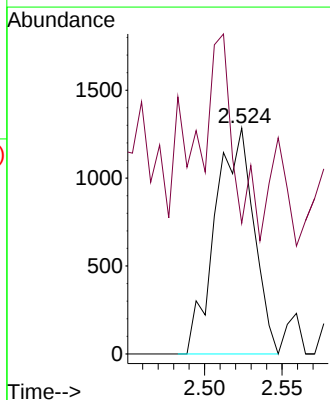
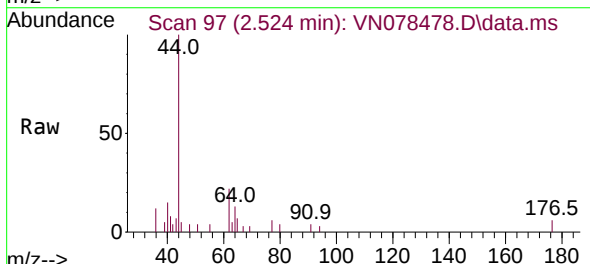
Manual Integrations  
APPROVED

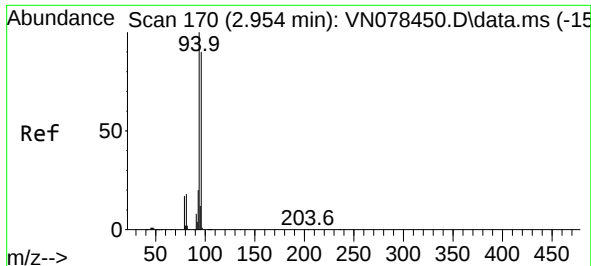
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#4  
Vinyl Chloride  
Concen: 0.308 ug/l  
RT: 2.524 min Scan# 97  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

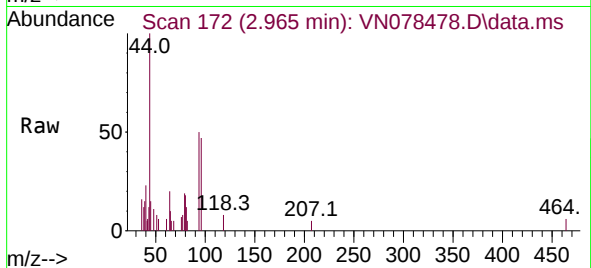
Tgt Ion: 62 Resp: 2212  
Ion Ratio Lower Upper  
62 100  
64 0.0 26.2 39.2#





#5  
Bromomethane  
Concen: 0.764 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

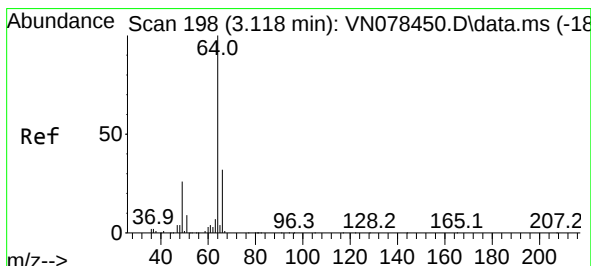
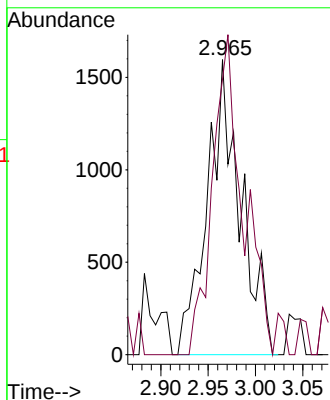
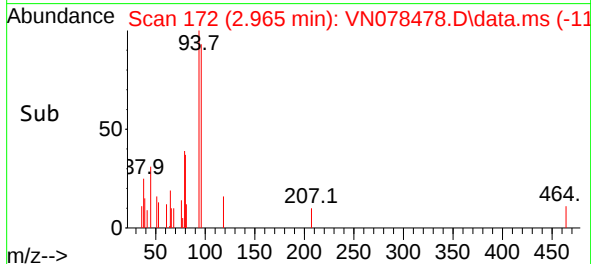
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 94 Resp: 3914  
Ion Ratio Lower Upper  
94 100  
96 93.4 73.1 109.7

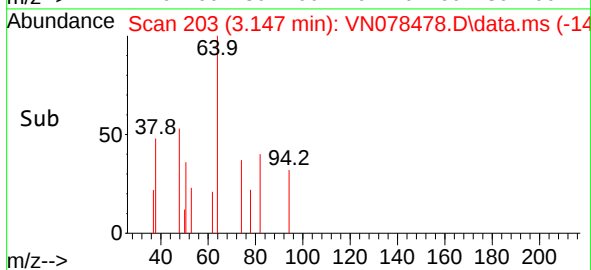
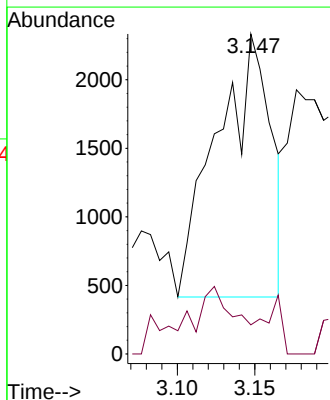
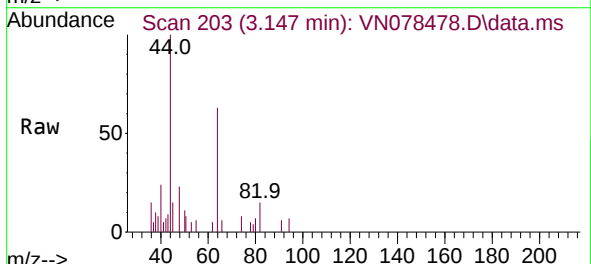
Manual Integrations  
APPROVED

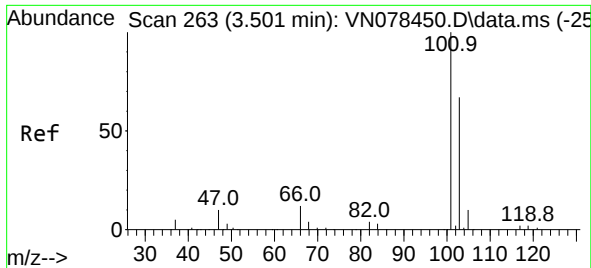
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#6  
Chloroethane  
Concen: 0.956 ug/l  
RT: 3.147 min Scan# 203  
Delta R.T. 0.029 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

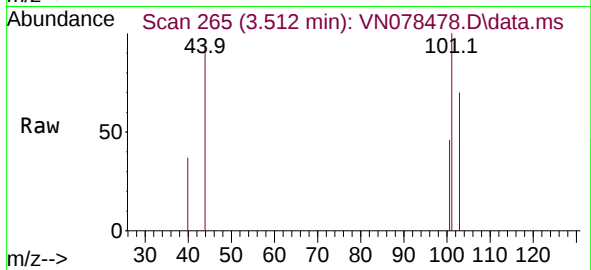
Tgt Ion: 64 Resp: 4631  
Ion Ratio Lower Upper  
64 100  
66 2.2 25.4 38.2#





#7  
Trichlorofluoromethane  
Concen: 0.264 ug/l  
RT: 3.512 min Scan# 226  
Delta R.T. 0.011 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

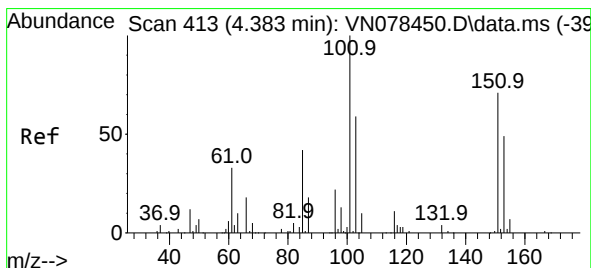
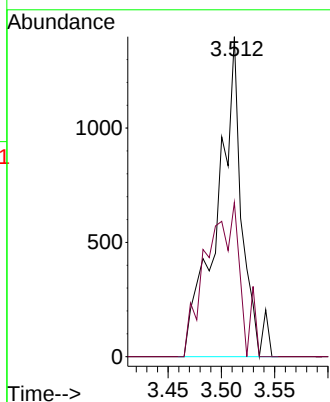
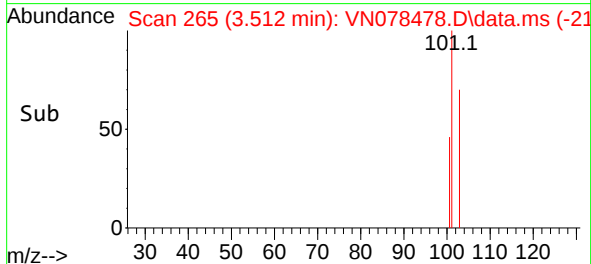
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion:101 Resp: 226  
Ion Ratio Lower Upper  
101 100  
103 48.2 50.7 76.1

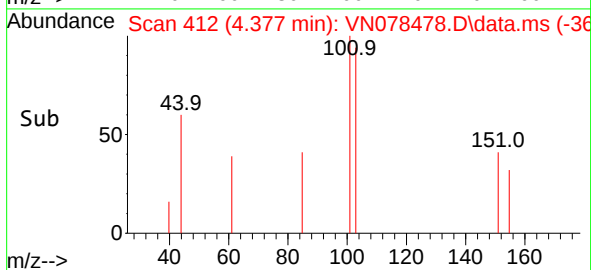
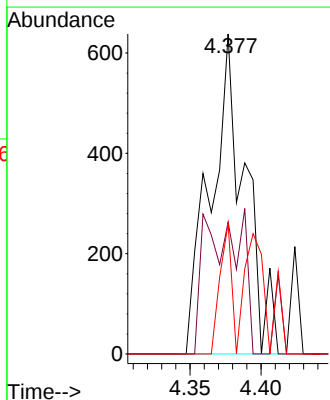
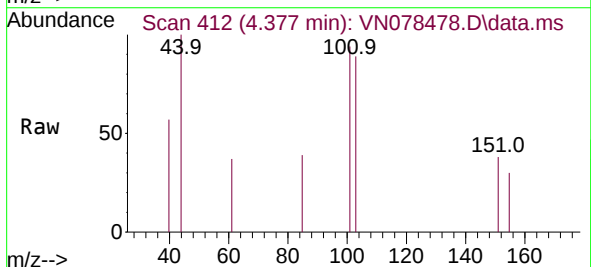
Manual Integrations  
APPROVED

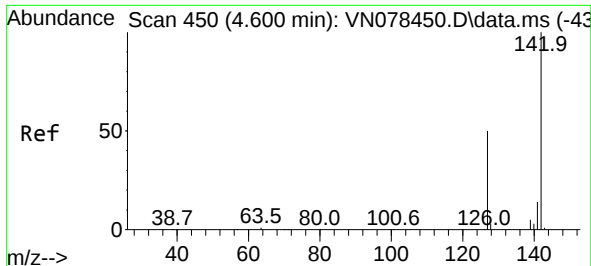
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.237 ug/l  
RT: 4.377 min Scan# 412  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

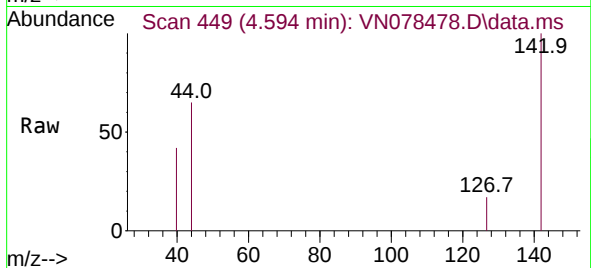
Tgt Ion:101 Resp: 1077  
Ion Ratio Lower Upper  
101 100  
85 22.7 36.6 55.0#  
151 13.6 57.6 86.4#





#10  
Methyl Iodide  
Concen: 0.345 ug/l m  
RT: 4.594 min Scan# 449  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

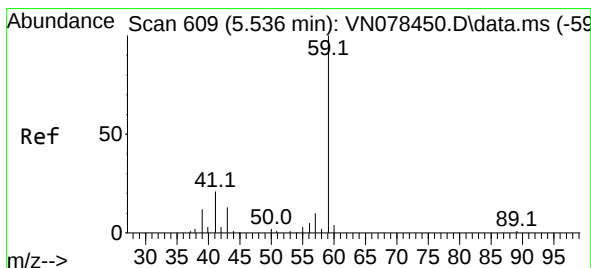
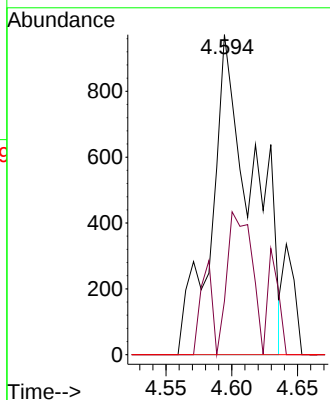
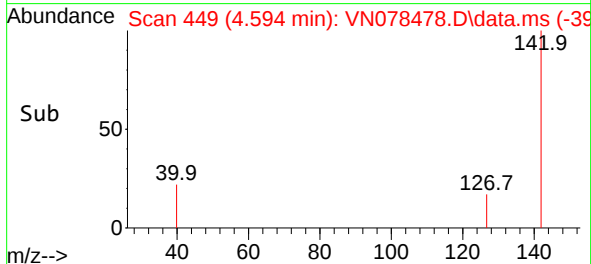
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion:142 Resp: 2152  
Ion Ratio Lower Upper  
142 100  
127 16.8 37.6 56.4#  
141 0.0 11.4 17.0#

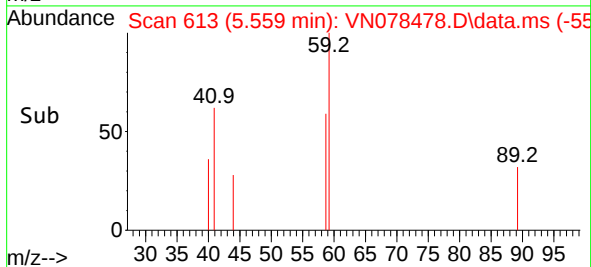
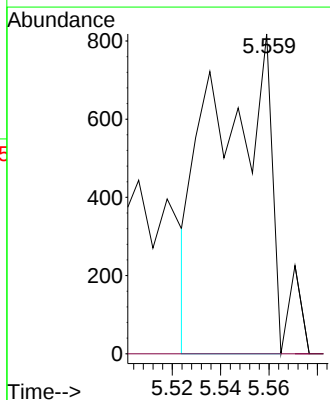
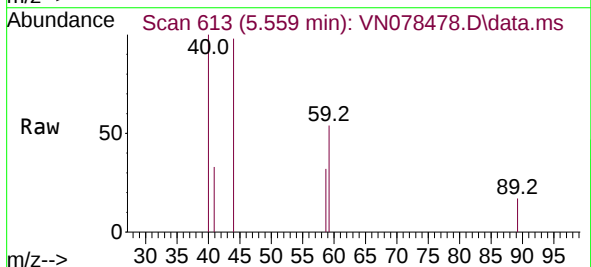
Manual Integrations  
APPROVED

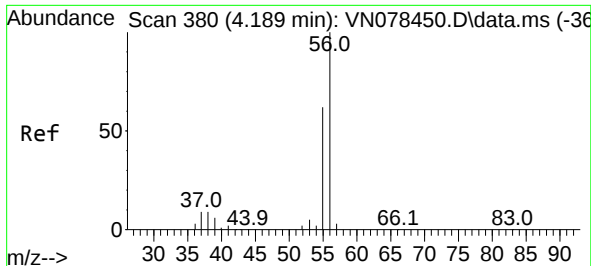
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#11  
Tert butyl alcohol  
Concen: 1.512 ug/l m  
RT: 5.559 min Scan# 613  
Delta R.T. 0.023 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

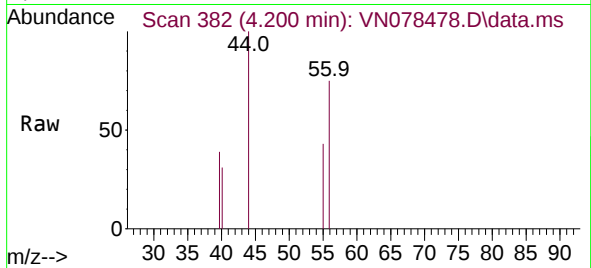
Tgt Ion: 59 Resp: 1300  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#





#13  
Acrolein  
Concen: 1.259 ug/l  
RT: 4.200 min Scan# 31  
Delta R.T. 0.011 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

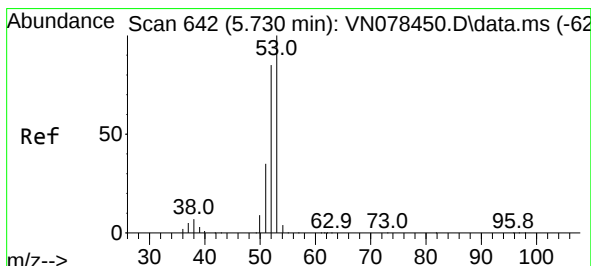
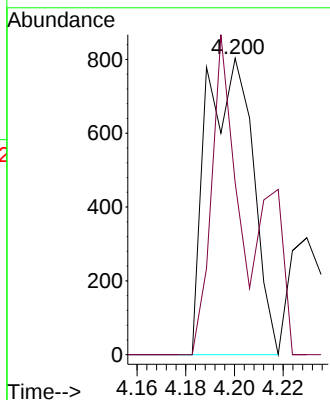
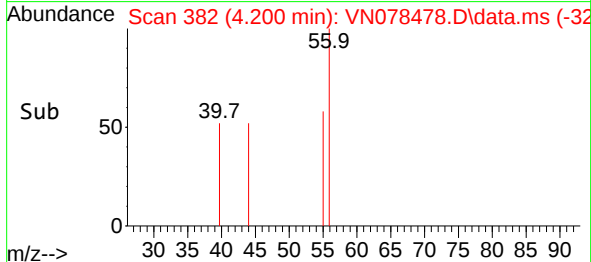
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



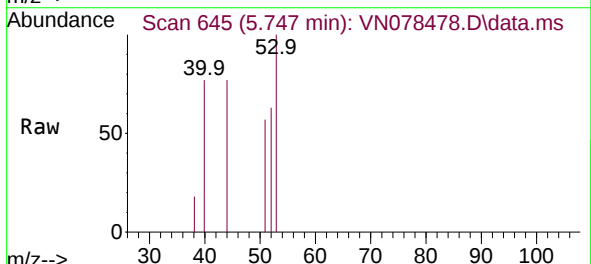
Tgt Ion: 56 Resp: 106  
Ion Ratio Lower Upper  
56 100  
55 57.8 54.5 81.7

Manual Integrations  
APPROVED

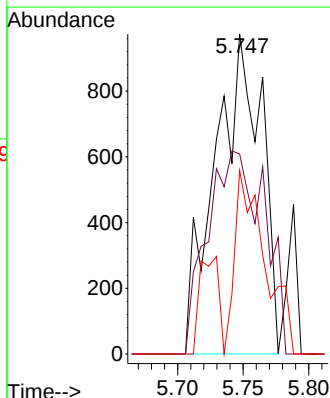
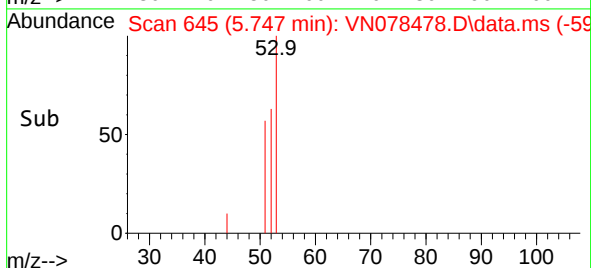
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023

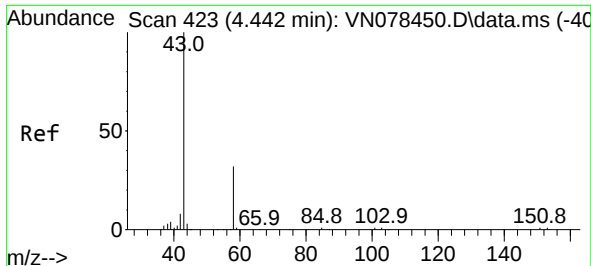


#15  
Acrylonitrile  
Concen: 1.105 ug/l  
RT: 5.747 min Scan# 645  
Delta R.T. 0.017 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29



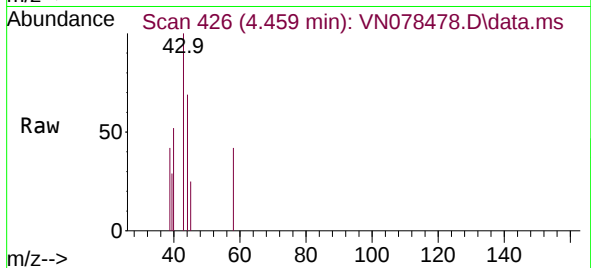
Tgt Ion: 53 Resp: 2400  
Ion Ratio Lower Upper  
53 100  
52 78.0 65.3 97.9  
51 37.3 28.9 43.3





#16  
Acetone  
Concen: 0.814 ug/l  
RT: 4.459 min Scan# 414  
Delta R.T. 0.017 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

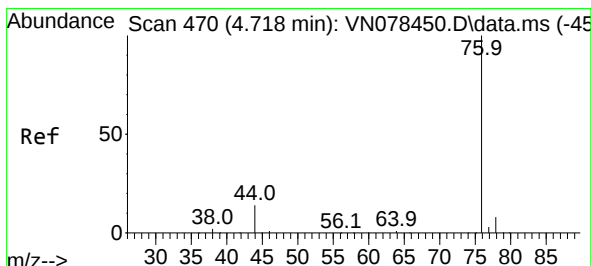
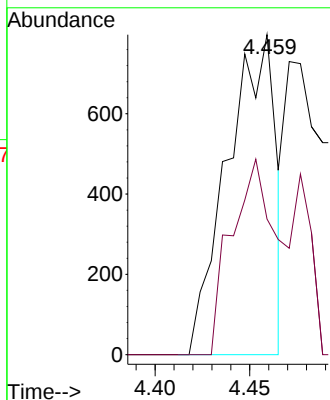
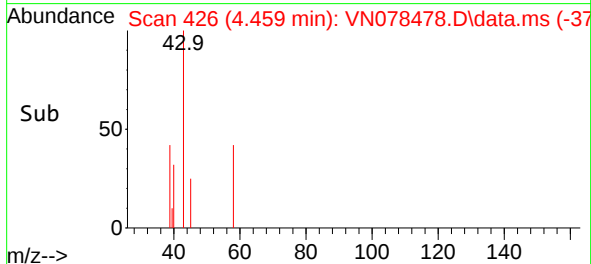
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 43 Resp: 1414  
Ion Ratio Lower Upper  
43 100  
58 42.4 28.0 42.0

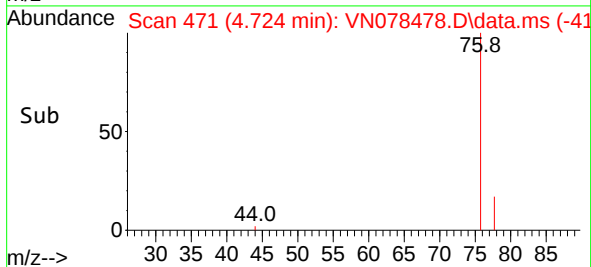
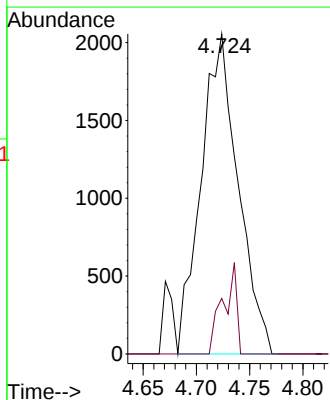
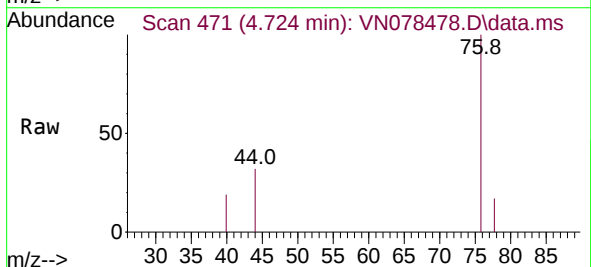
Manual Integrations  
APPROVED

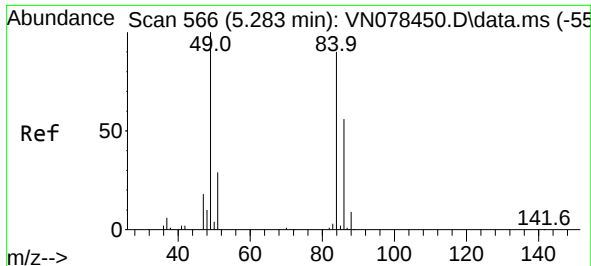
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#17  
Carbon Disulfide  
Concen: 0.393 ug/l  
RT: 4.724 min Scan# 471  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

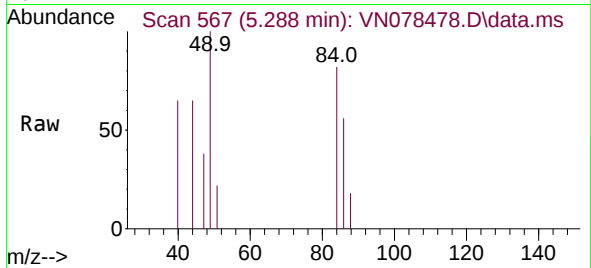
Tgt Ion: 76 Resp: 4982  
Ion Ratio Lower Upper  
76 100  
78 17.4 7.4 11.0





#20  
Methylene Chloride  
Concen: 0.508 ug/l  
RT: 5.288 min Scan# 509  
Delta R.T. 0.005 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

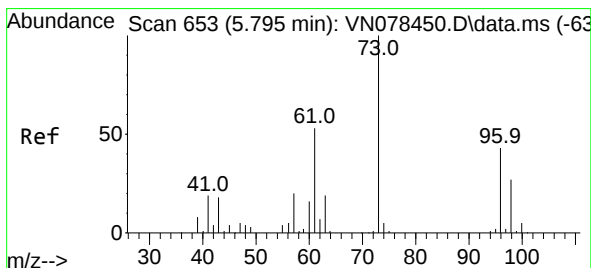
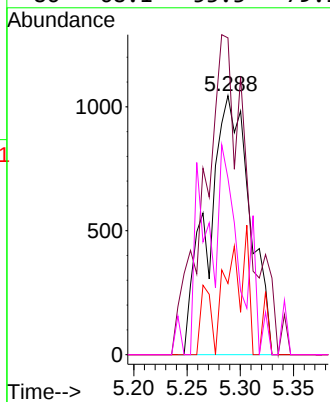
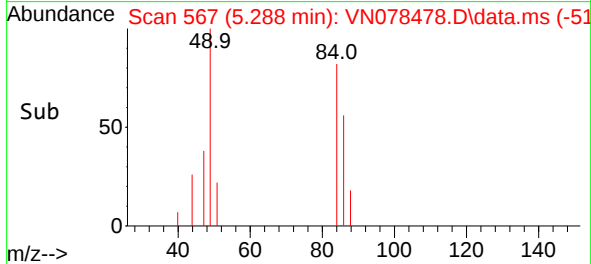
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 84 Resp: 2840  
Ion Ratio Lower Upper  
84 100  
49 122.3 79.7 119.5  
51 27.5 25.2 37.8  
86 68.1 53.3 79.9

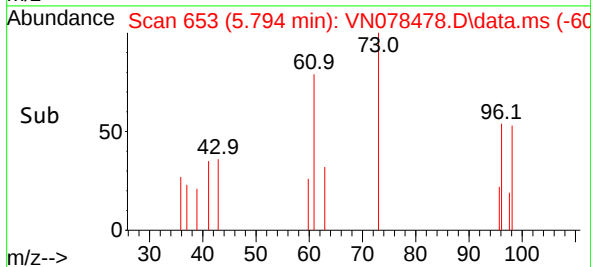
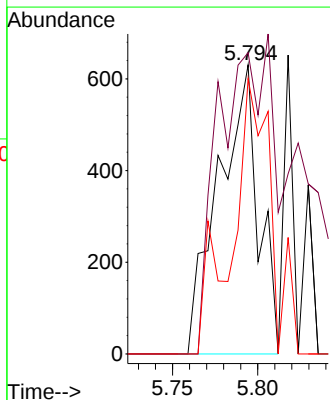
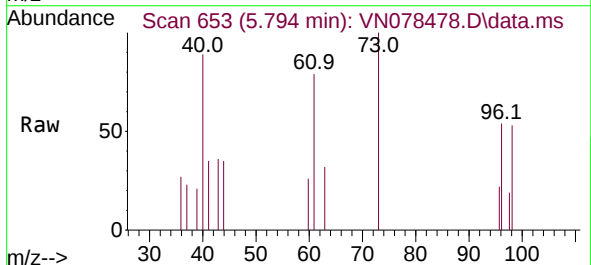
Manual Integrations  
APPROVED

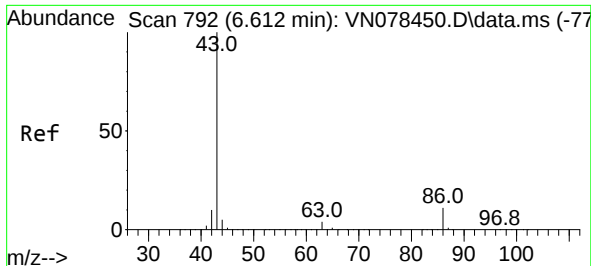
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#21  
trans-1,2-Dichloroethene  
Concen: 0.207 ug/l  
RT: 5.794 min Scan# 653  
Delta R.T. -0.001 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

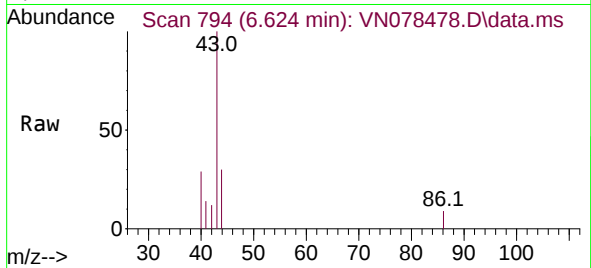
Tgt Ion: 96 Resp: 1024  
Ion Ratio Lower Upper  
96 100  
61 104.1 90.1 135.1  
98 95.2 46.4 69.6#





#23  
 Vinyl Acetate  
 Concen: 1.006 ug/l  
 RT: 6.624 min Scan# 794  
 Delta R.T. 0.012 min  
 Lab File: VN078478.D  
 Acq: 12 Jul 2023 13:29

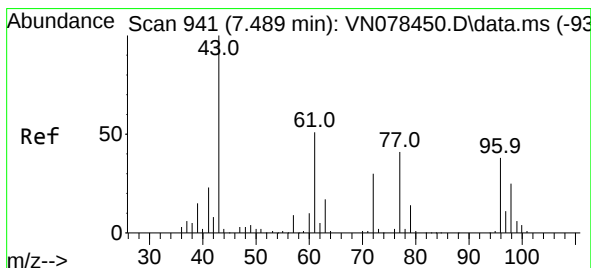
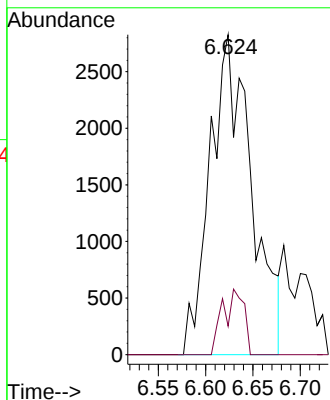
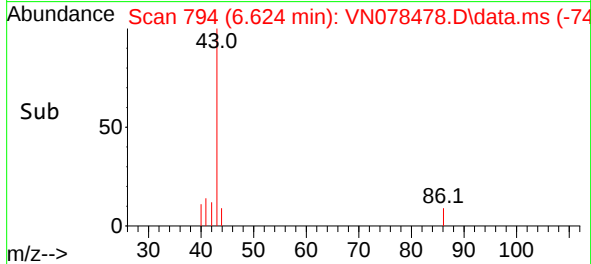
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT3-2023



Tgt Ion: 43 Resp: 859  
 Ion Ratio Lower Upper  
 43 100  
 86 8.9 13.0 19.6

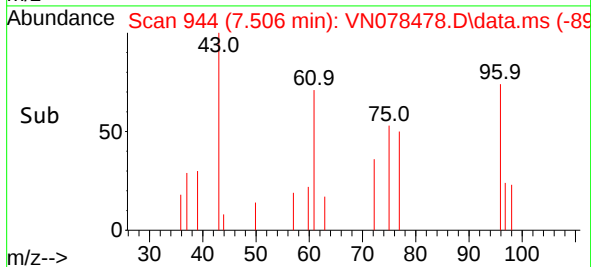
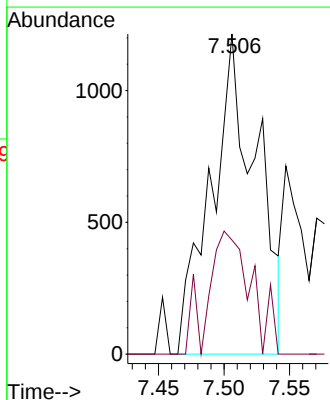
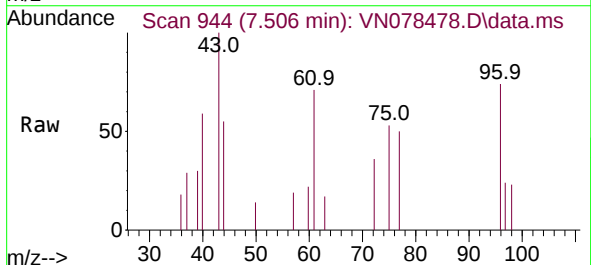
Manual Integrations  
 APPROVED

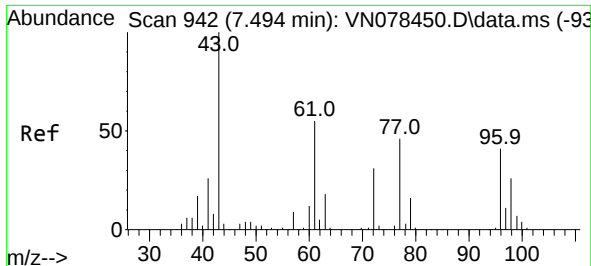
Reviewed By :John Carlone 07/13/2023  
 Supervised By :Mahesh Dadoda 07/13/2023



#25  
 2-Butanone  
 Concen: 1.070 ug/l  
 RT: 7.506 min Scan# 944  
 Delta R.T. 0.017 min  
 Lab File: VN078478.D  
 Acq: 12 Jul 2023 13:29

Tgt Ion: 43 Resp: 2925  
 Ion Ratio Lower Upper  
 43 100  
 72 35.6 30.2 45.2





#27

cis-1,2-Dichloroethene

Concen: 0.246 ug/l

RT: 7.506 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN078478.D

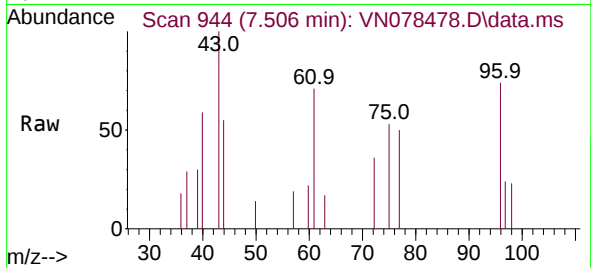
Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023



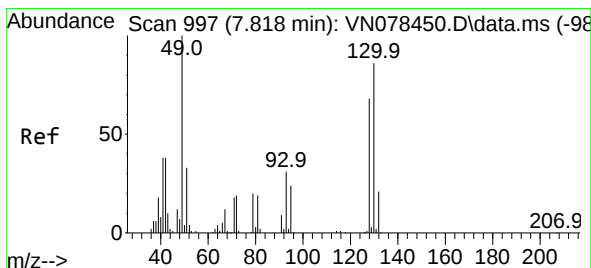
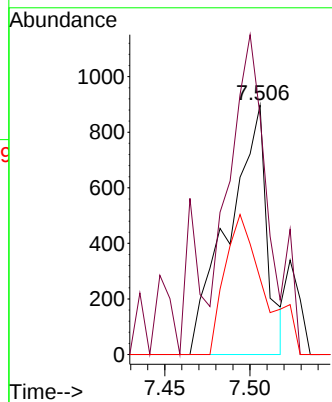
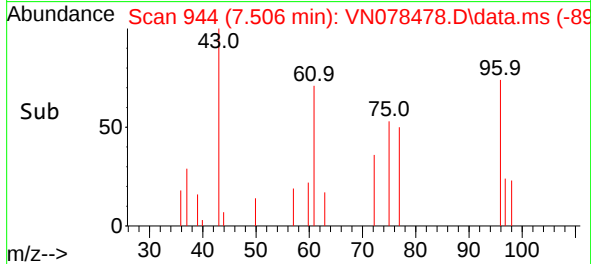
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 1408  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 129.1 | 0.0   | 255.2 |
| 98       | 57.6  | 0.0   | 128.8 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#28

Bromochloromethane

Concen: 0.210 ug/l

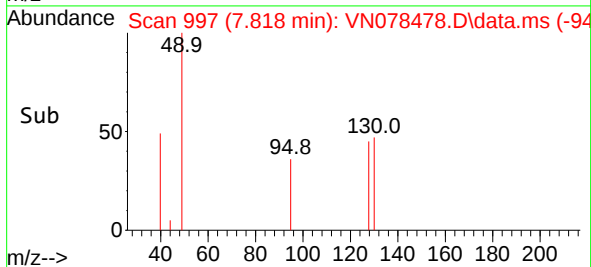
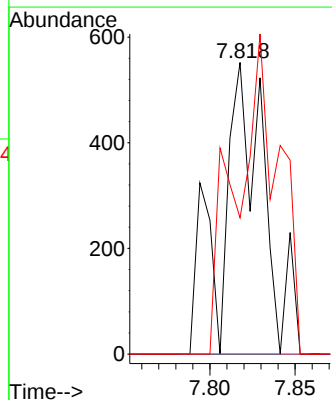
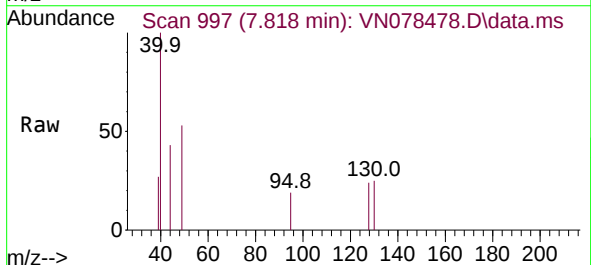
RT: 7.818 min Scan# 997

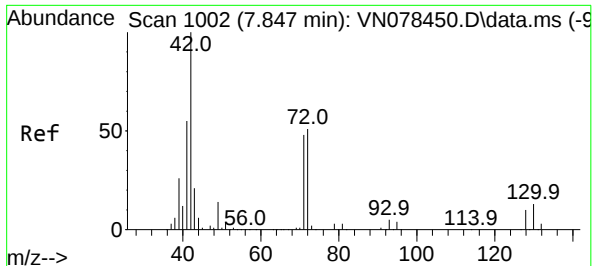
Delta R.T. -0.000 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 49    | Resp: | 894    |
| Ion      | Ratio | Lower | Upper  |
| 49       | 100   |       |        |
| 129      | 0.0   | 0.0   | 4.8    |
| 130      | 118.6 | 75.3  | 112.9# |





#29

Tetrahydrofuran

Concen: 1.134 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.012 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

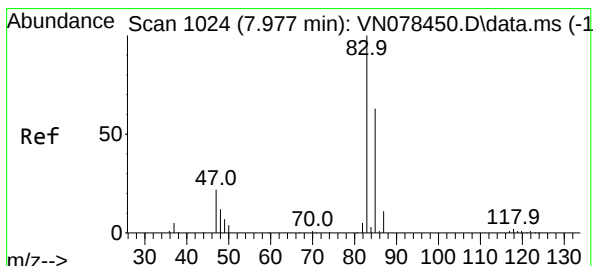
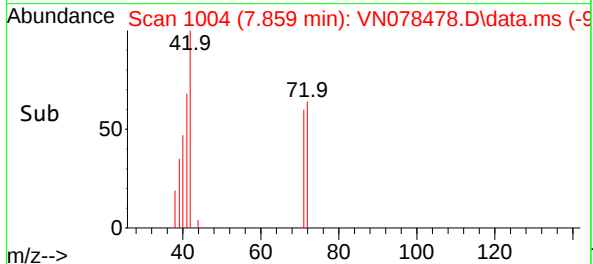
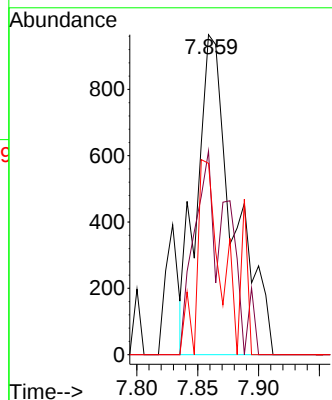
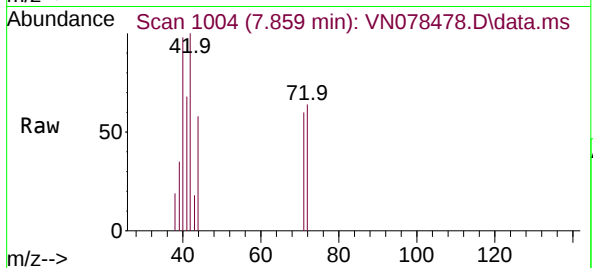
|             |                |
|-------------|----------------|
| Tgt Ion: 42 | Resp: 203      |
| Ion Ratio   | Lower Upper    |
| 42          | 100            |
| 72          | 33.5 49.8 74.6 |
| 71          | 31.4 47.4 71.2 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#30

Chloroform

Concen: 0.294 ug/l

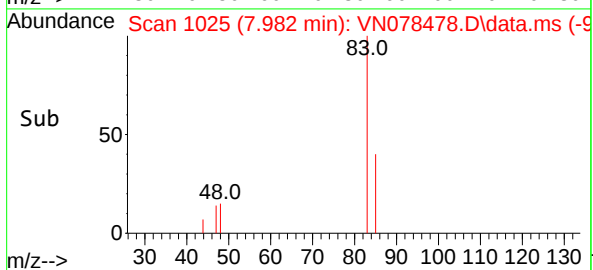
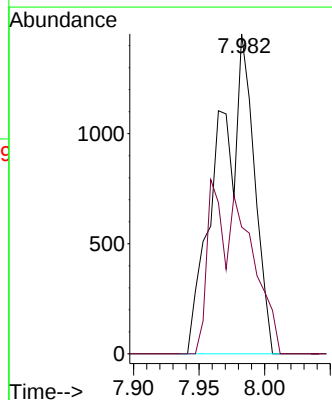
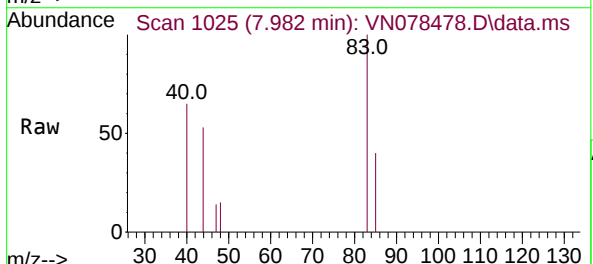
RT: 7.982 min Scan# 1025

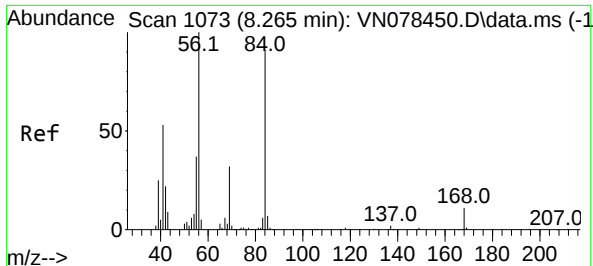
Delta R.T. 0.005 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

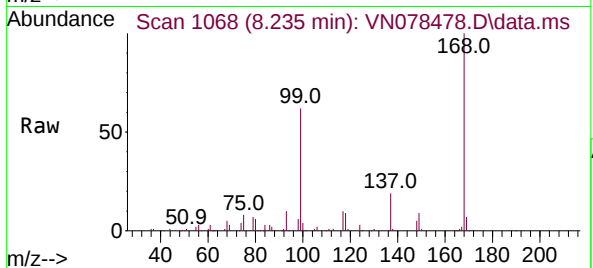
|             |                |
|-------------|----------------|
| Tgt Ion: 83 | Resp: 2771     |
| Ion Ratio   | Lower Upper    |
| 83          | 100            |
| 85          | 39.6 55.4 83.0 |





#31  
Cyclohexane  
Concen: 1.350 ug/l  
RT: 8.235 min Scan# 1073  
Delta R.T. -0.030 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

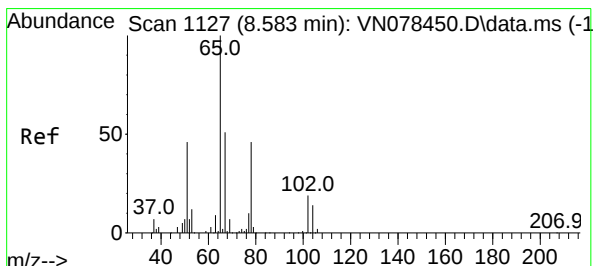
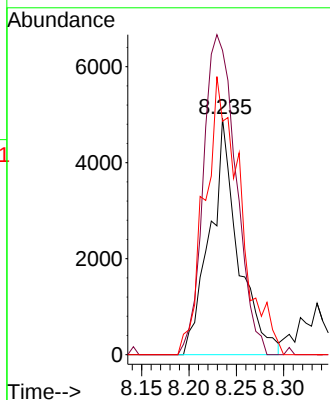
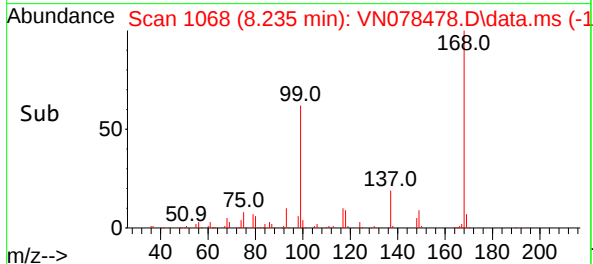
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 56 Resp: 1017  
Ion Ratio Lower Upper  
56 100  
69 128.8 26.8 40.2  
84 98.8 81.8 122.6

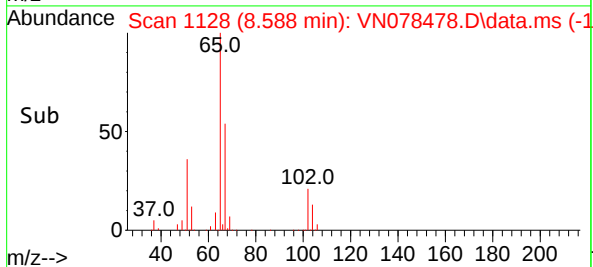
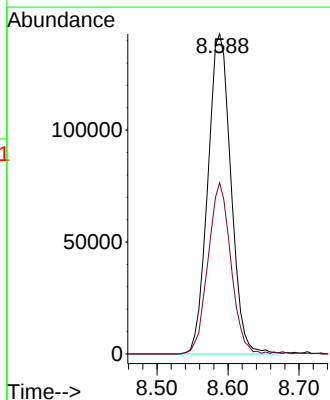
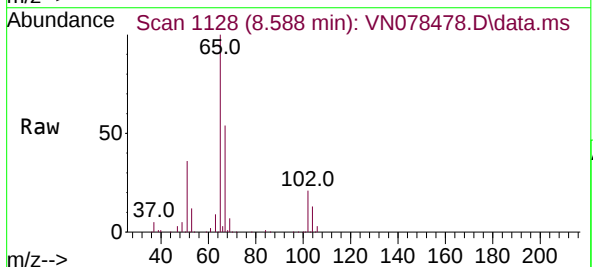
Manual Integrations  
APPROVED

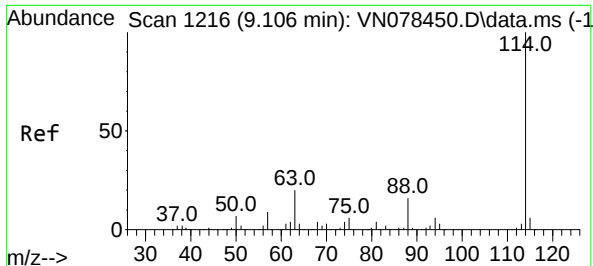
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#33  
1,2-Dichloroethane-d4  
Concen: 57.833 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.005 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Tgt Ion: 65 Resp: 322493  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

Tgt Ion:114 Resp: 75532

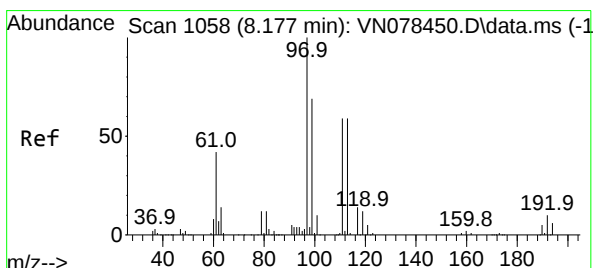
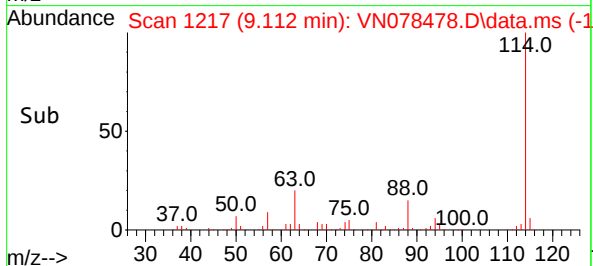
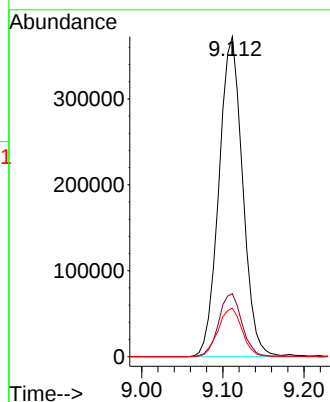
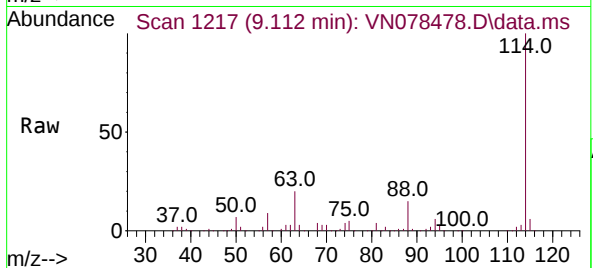
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.7  | 0.0   | 36.4  |
| 88  | 15.1  | 0.0   | 30.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#35

Dibromofluoromethane

Concen: 53.296 ug/l

RT: 8.177 min Scan# 1058

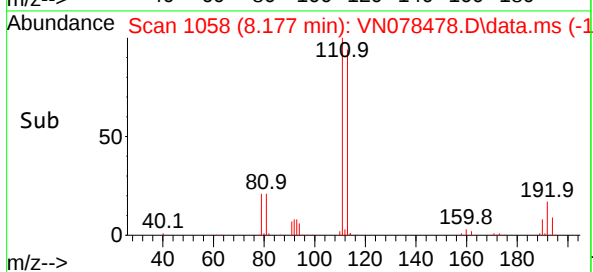
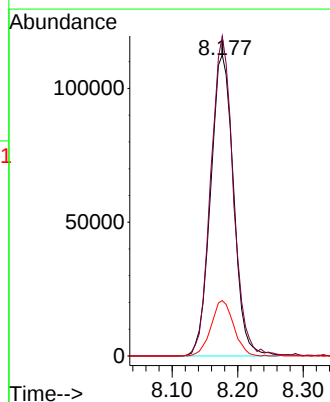
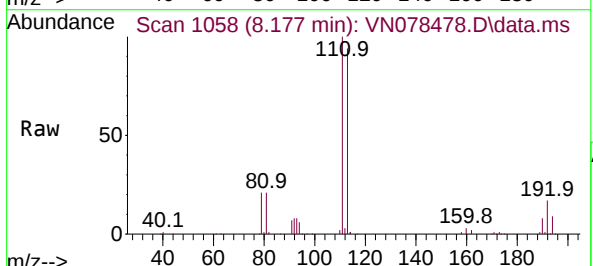
Delta R.T. -0.000 min

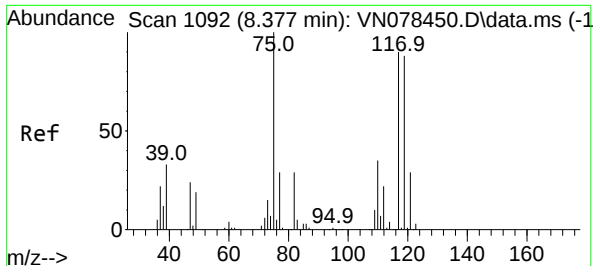
Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Tgt Ion:113 Resp: 273272

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 104.3 | 82.6  | 123.8 |
| 192 | 18.1  | 12.7  | 19.1  |





#36

1,1-Dichloropropene

Concen: 0.246 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.006 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

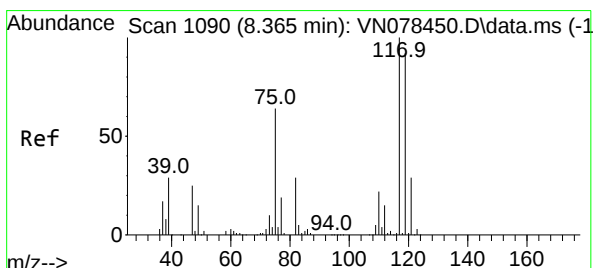
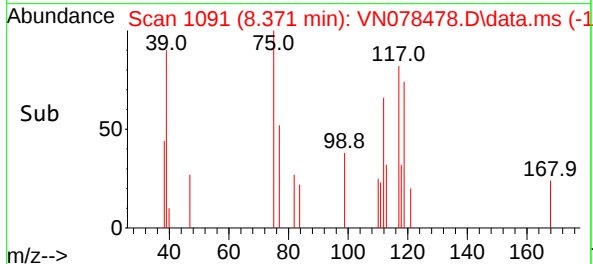
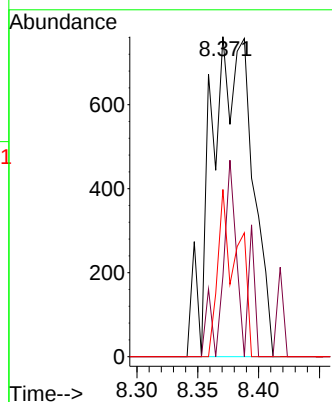
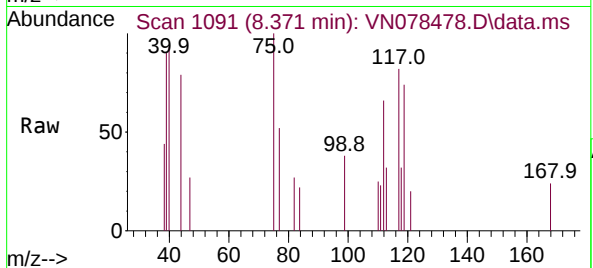
|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 1818     |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 20.2 19.1 57.3 |
| 77          | 24.8 25.0 37.4 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#38

Carbon Tetrachloride

Concen: 0.240 ug/l

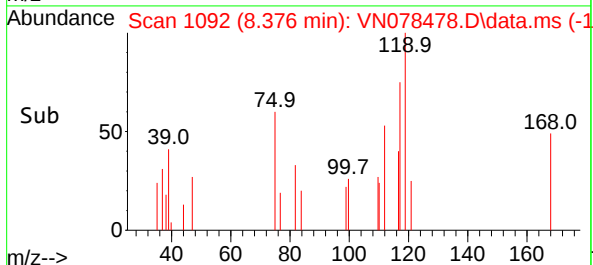
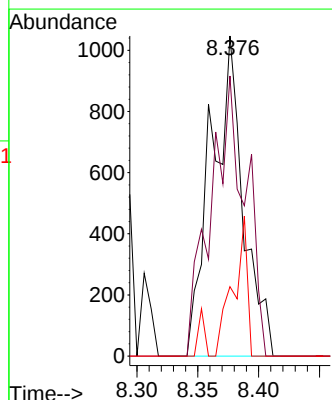
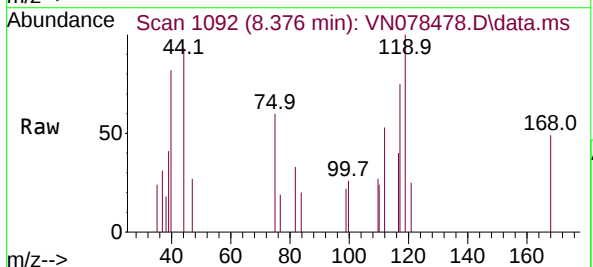
RT: 8.376 min Scan# 1092

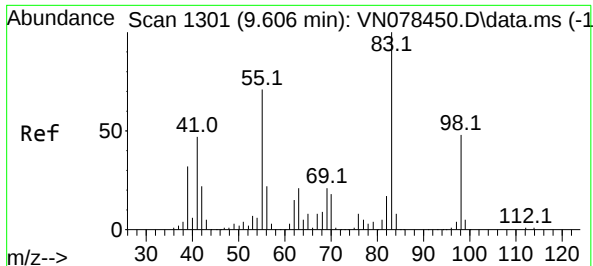
Delta R.T. 0.011 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 1928      |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 87.5 77.3 115.9 |
| 121          | 21.7 23.3 34.9  |





#39

Methylcyclohexane

Concen: 0.223 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

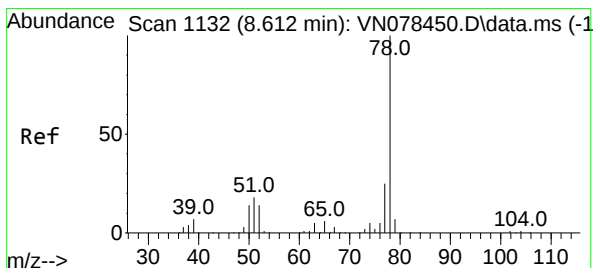
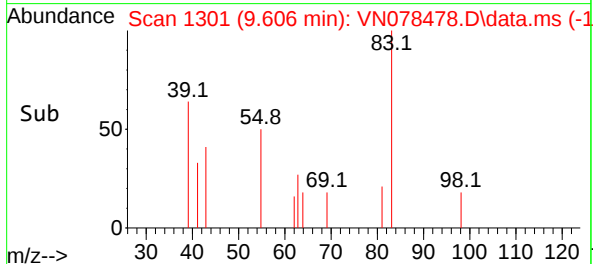
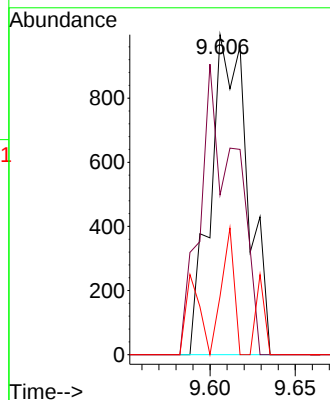
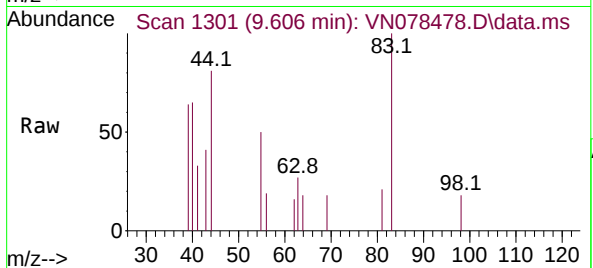
|             |                |
|-------------|----------------|
| Tgt Ion: 83 | Resp: 1510     |
| Ion Ratio   | Lower Upper    |
| 83          | 100            |
| 55          | 49.9 49.1 73.7 |
| 98          | 18.2 40.6 61.0 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#40

Benzene

Concen: 0.217 ug/l

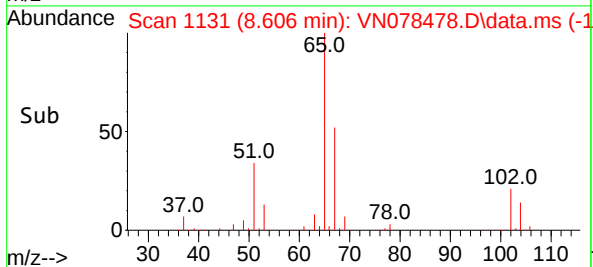
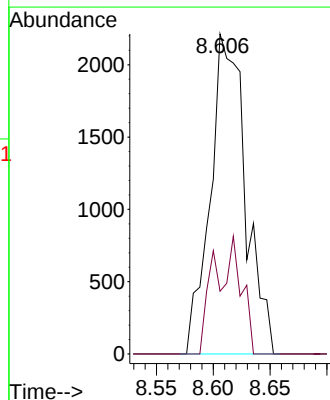
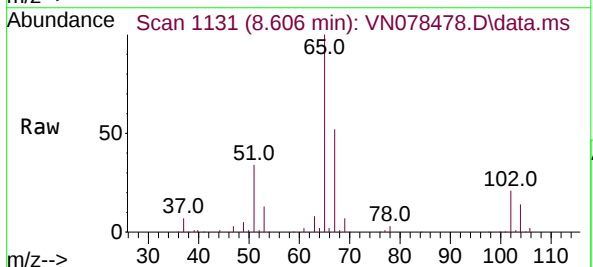
RT: 8.606 min Scan# 1131

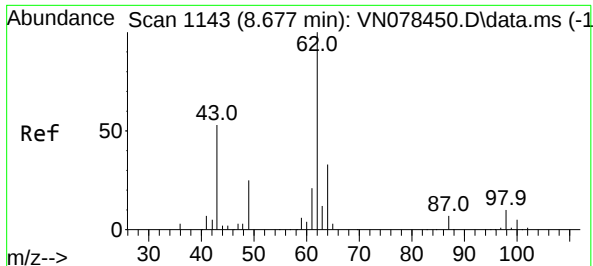
Delta R.T. -0.006 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

|             |                |
|-------------|----------------|
| Tgt Ion: 78 | Resp: 4764     |
| Ion Ratio   | Lower Upper    |
| 78          | 100            |
| 77          | 19.6 19.0 28.6 |





#42

1,2-Dichloroethane

Concen: 0.304 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

Tgt Ion: 62 Resp: 226

Ion Ratio Lower Upper

62 100

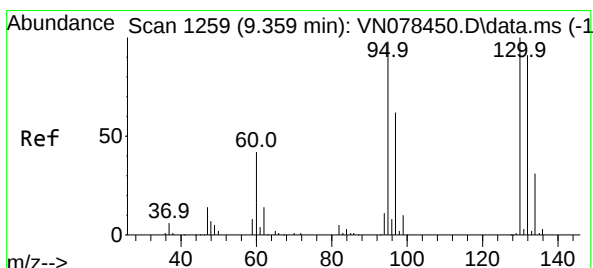
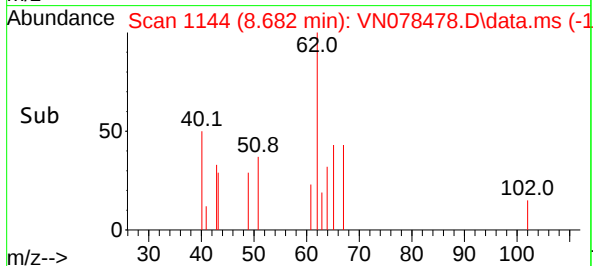
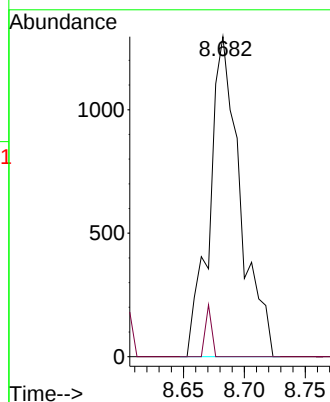
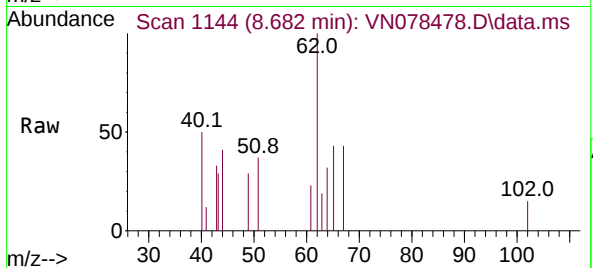
98 3.3 0.0 19.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#44

Trichloroethene

Concen: 0.300 ug/l

RT: 9.365 min Scan# 1260

Delta R.T. 0.006 min

Lab File: VN078478.D

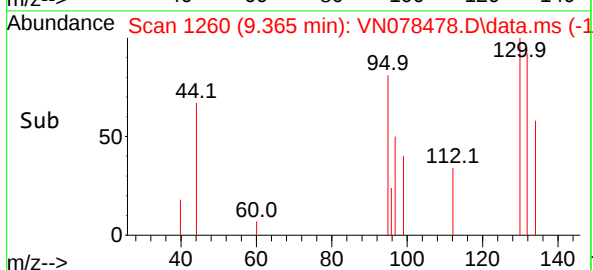
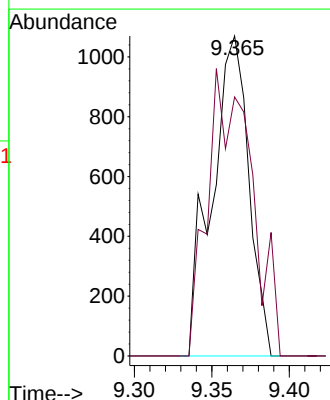
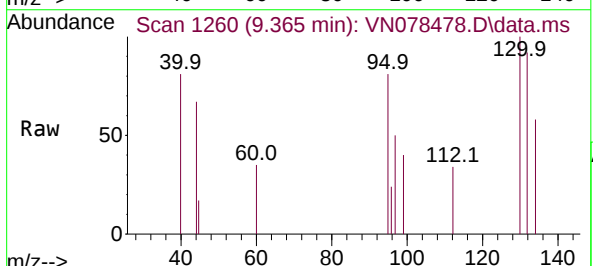
Acq: 12 Jul 2023 13:29

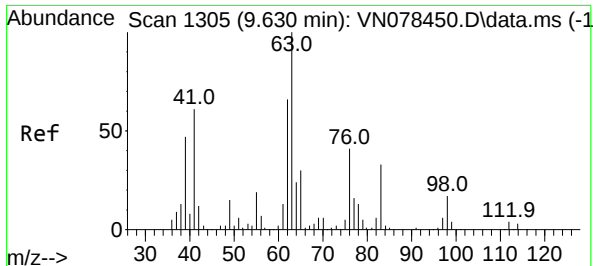
Tgt Ion:130 Resp: 1775

Ion Ratio Lower Upper

130 100

95 80.9 0.0 204.6





#45

1,2-Dichloropropane

Concen: 0.221 ug/l

RT: 9.635 min Scan# 1305

Delta R.T. 0.005 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

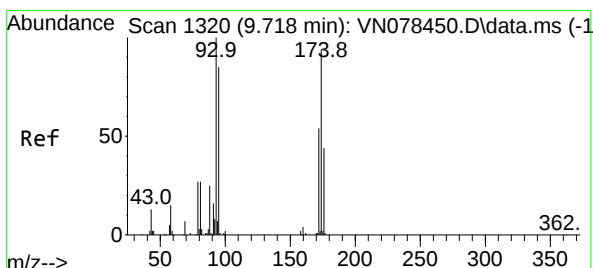
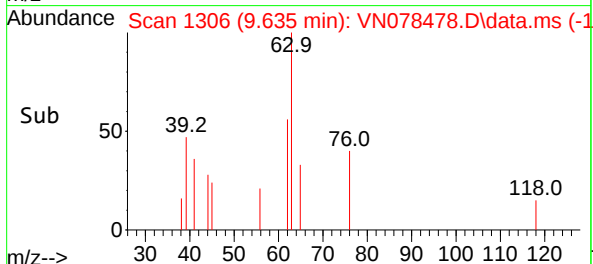
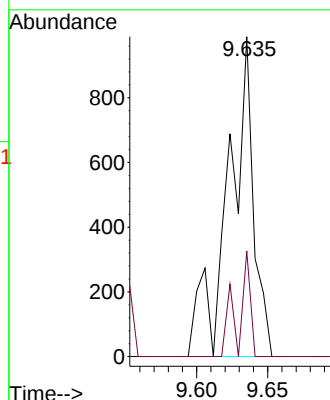
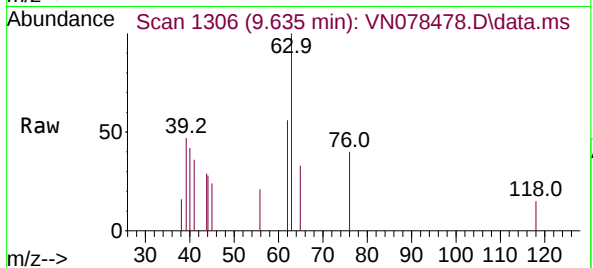
Tgt Ion: 63 Resp: 1225  
 Ion Ratio Lower Upper  
 63 100  
 65 33.0 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#46

Dibromomethane

Concen: 0.331 ug/l

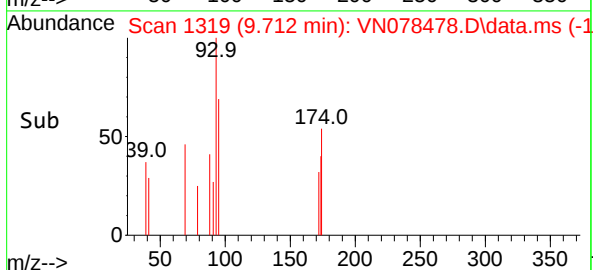
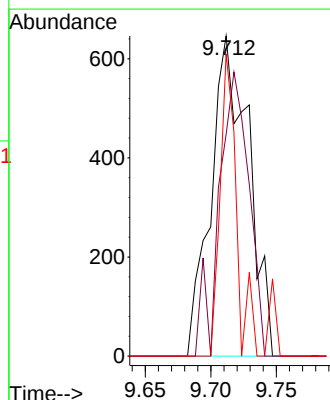
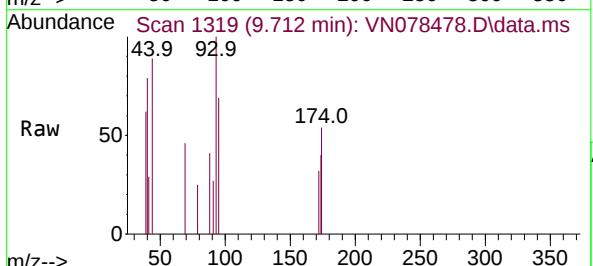
RT: 9.712 min Scan# 1319

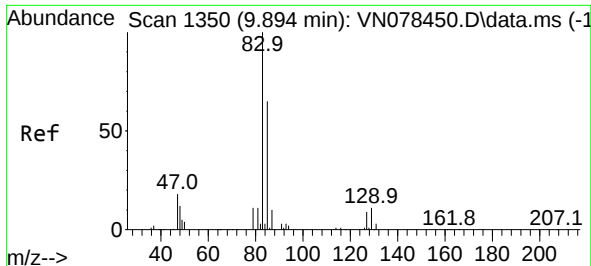
Delta R.T. -0.006 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

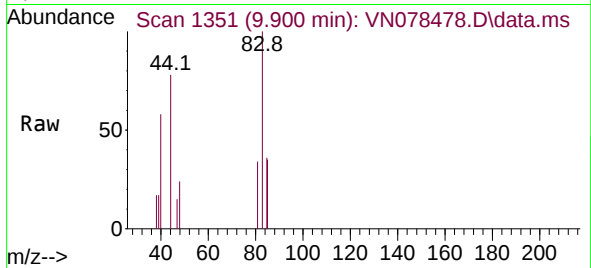
Tgt Ion: 93 Resp: 1293  
 Ion Ratio Lower Upper  
 93 100  
 95 70.1 63.8 95.8  
 174 40.5 65.6 98.4#





#47  
Bromodichloromethane  
Concen: 0.201 ug/l  
RT: 9.900 min Scan# 1351  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

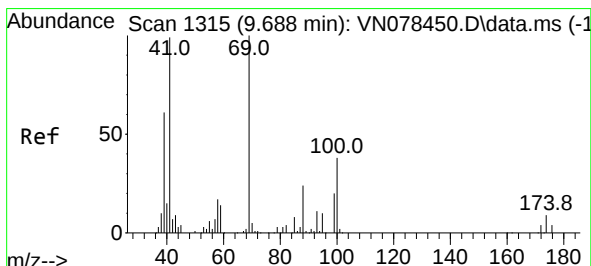
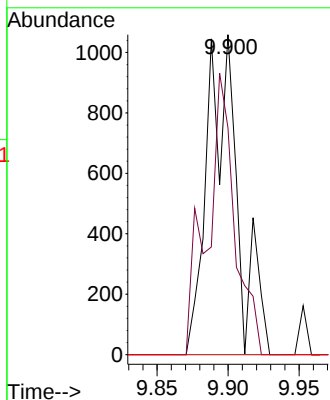
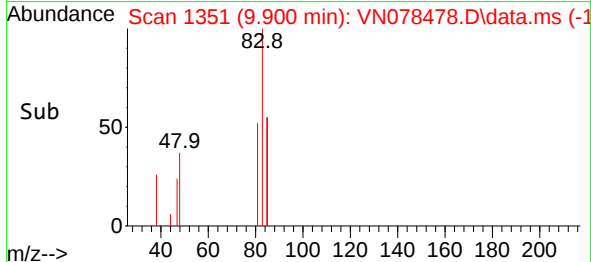
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 83 Resp: 157  
Ion Ratio Lower Upper  
83 100  
85 70.9 49.6 74.4  
127 0.0 7.0 10.6

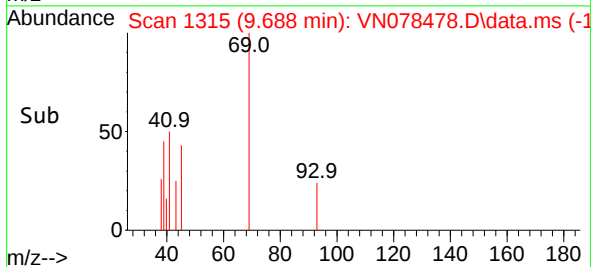
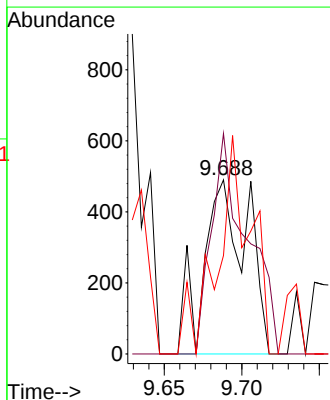
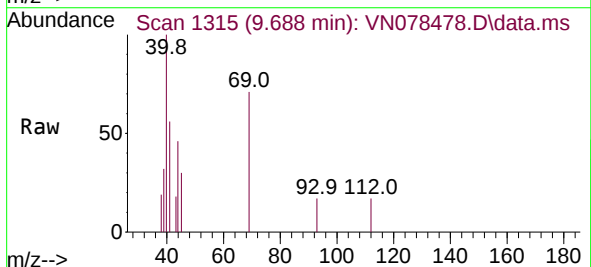
Manual Integrations  
APPROVED

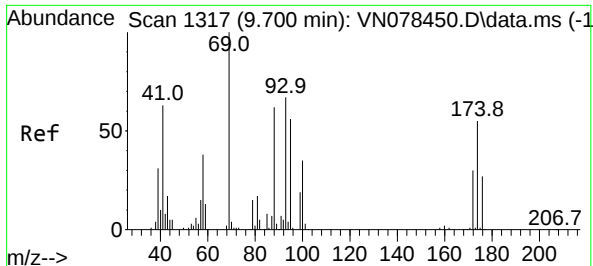
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#48  
Methyl methacrylate  
Concen: 0.205 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Tgt Ion: 41 Resp: 963  
Ion Ratio Lower Upper  
41 100  
69 102.9 90.4 135.6  
39 95.4 54.6 81.8





#49

1,4-Dioxane

Concen: 2.913 ug/l

RT: 9.712 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN078478.D

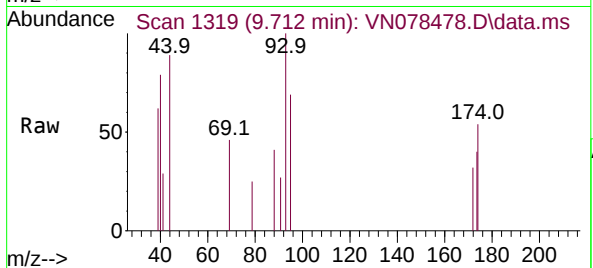
Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023



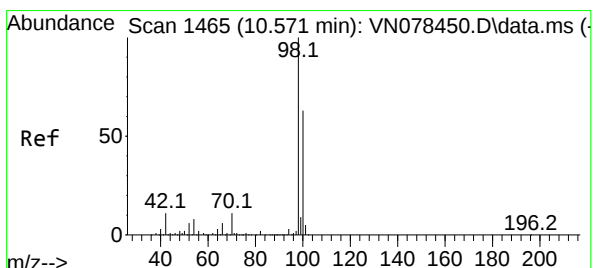
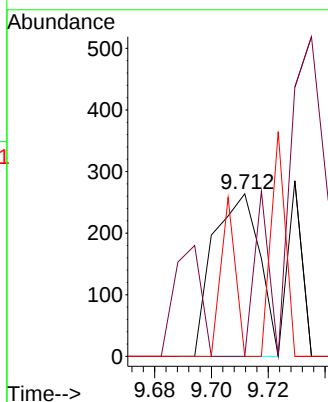
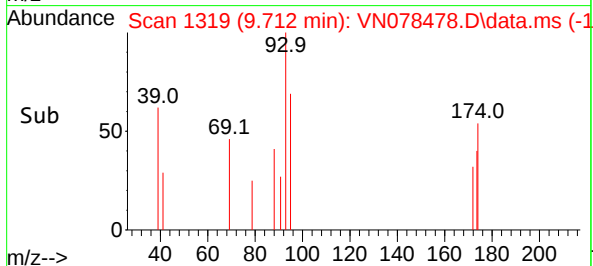
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 88    | Resp: | 299  |
| Ion Ratio | Lower | Upper |      |
| 88        | 100   |       |      |
| 43        | 39.5  | 17.0  | 25.6 |
| 58        | 30.4  | 47.0  | 70.4 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#50

Toluene-d8

Concen: 50.235 ug/l

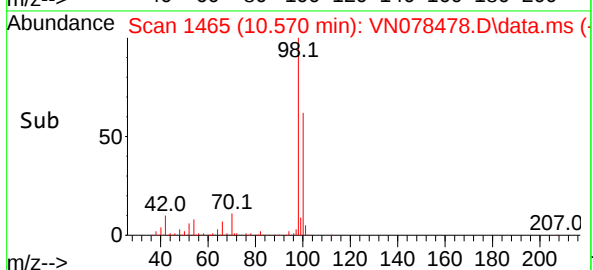
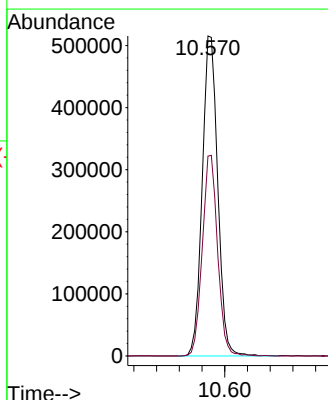
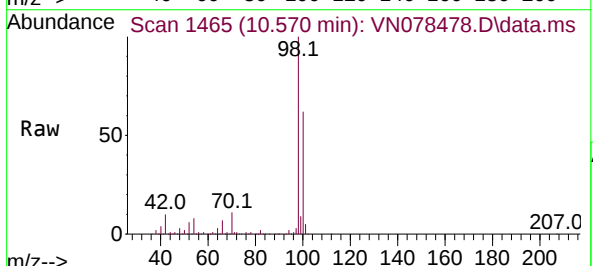
RT: 10.570 min Scan# 1465

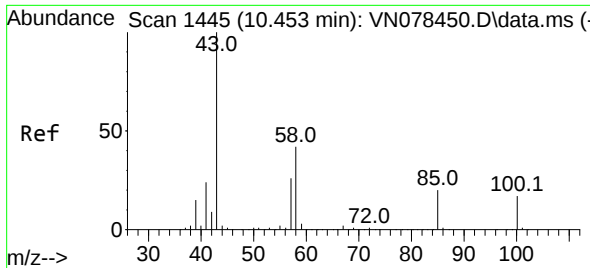
Delta R.T. -0.001 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

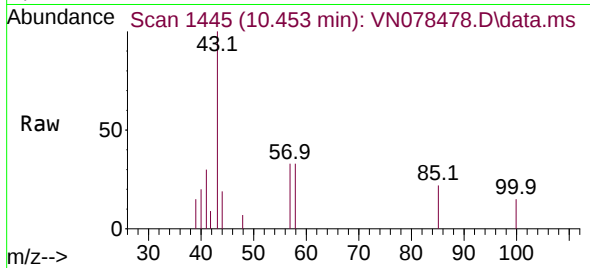
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 973041 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 61.9  | 52.0  | 78.0   |





#51  
4-Methyl-2-Pentanone  
Concen: 1.150 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

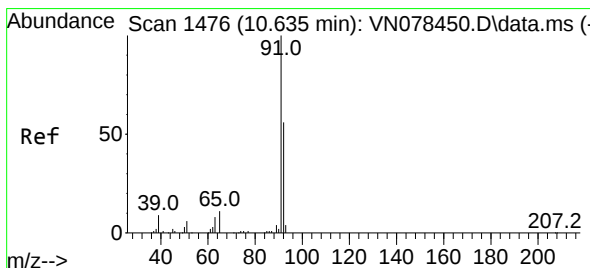
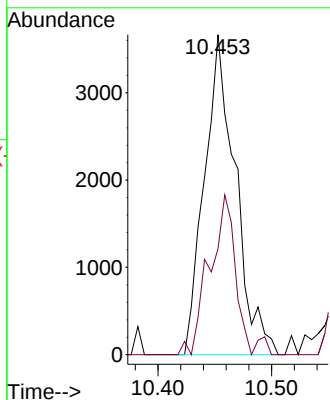
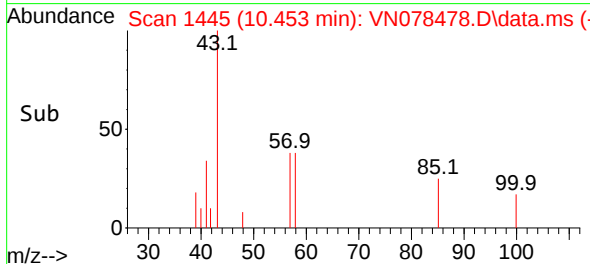
Instrument : MSVOA\_N  
ClientSampleId : MDL-WATER-03-QT3-2023



Tgt Ion: 43 Resp: 6948  
Ion Ratio Lower Upper  
43 100  
58 41.2 36.6 54.8

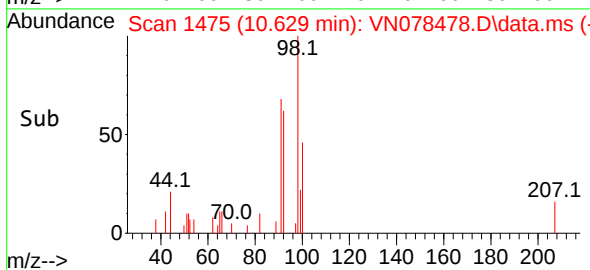
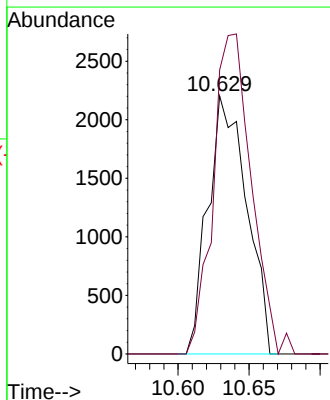
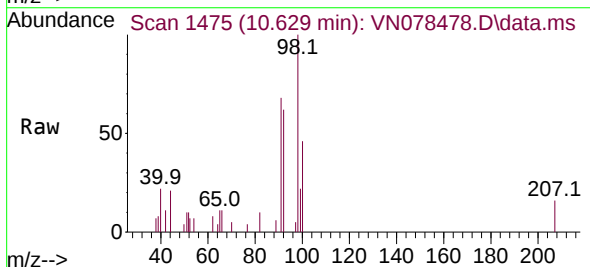
Manual Integrations  
APPROVED

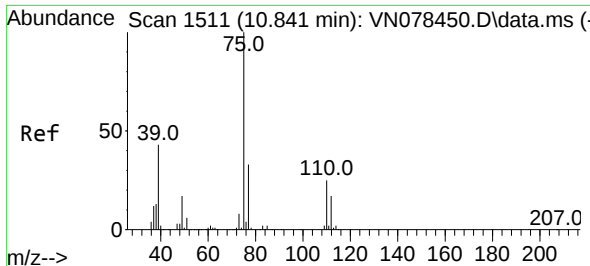
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#52  
Toluene  
Concen: 0.308 ug/l  
RT: 10.629 min Scan# 1475  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Tgt Ion: 92 Resp: 4192  
Ion Ratio Lower Upper  
92 100  
91 122.1 137.4 206.0#





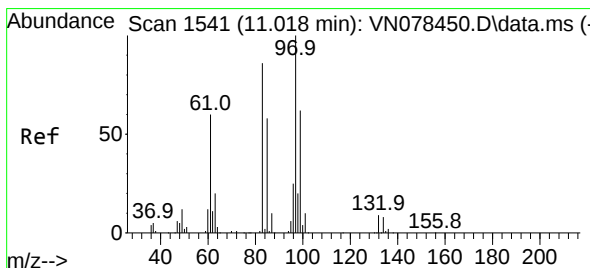
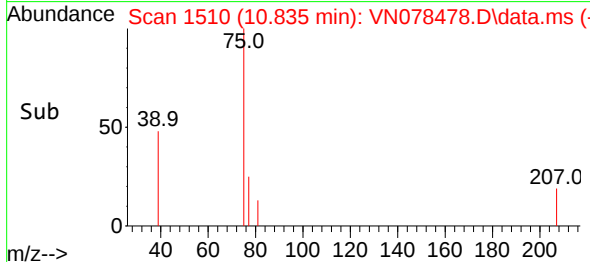
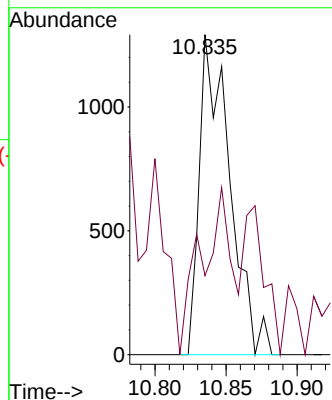
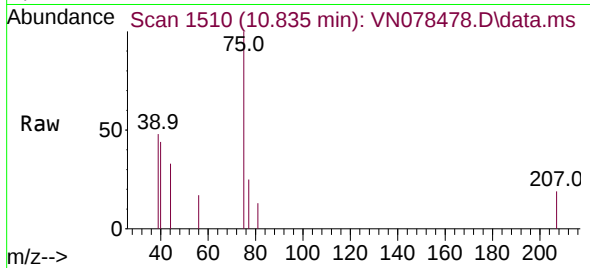
#53  
t-1,3-Dichloropropene  
Concen: 0.238 ug/l  
RT: 10.835 min Scan# 1510  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Instrument : MSVOA\_N  
ClientSampleId : MDL-WATER-03-QT3-2023

Tgt Ion: 75 Resp: 191  
Ion Ratio Lower Upper  
75 100  
77 24.7 25.4 38.0

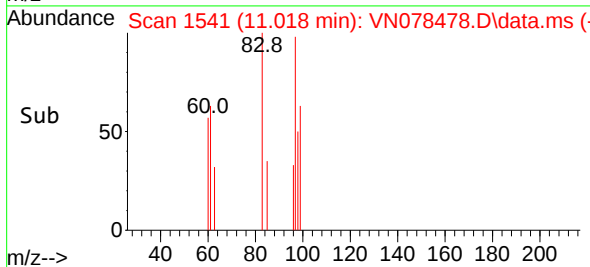
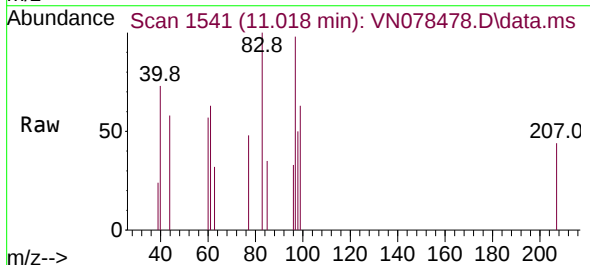
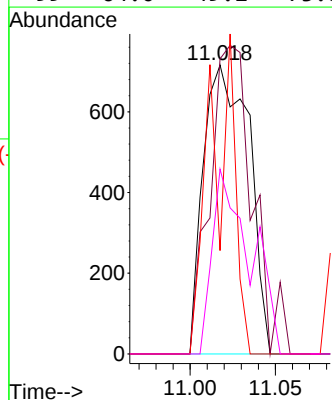
Manual Integrations  
APPROVED

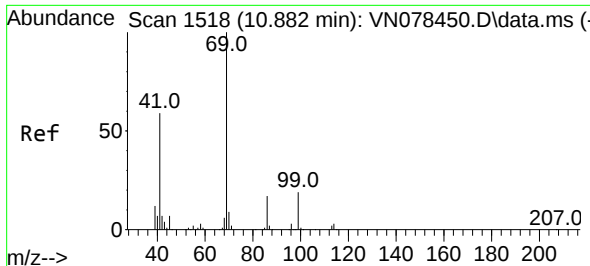
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#55  
1,1,2-Trichloroethane  
Concen: 0.249 ug/l  
RT: 11.018 min Scan# 1541  
Delta R.T. -0.001 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

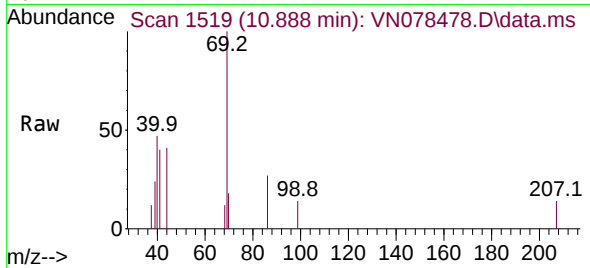
Tgt Ion: 97 Resp: 1334  
Ion Ratio Lower Upper  
97 100  
83 102.1 65.1 97.7#  
85 35.8 43.4 65.2#  
99 64.0 49.2 73.8





#56  
Ethyl methacrylate  
Concen: 0.210 ug/l  
RT: 10.888 min Scan# 1518  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

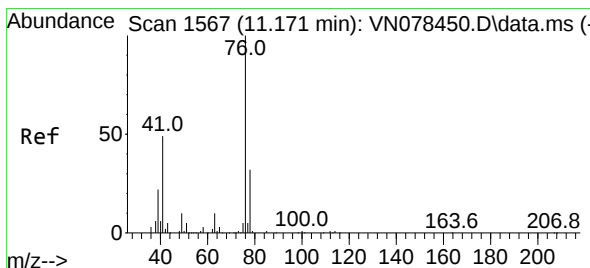
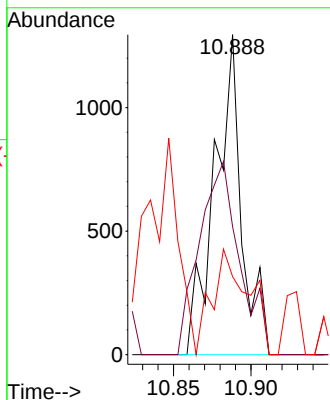
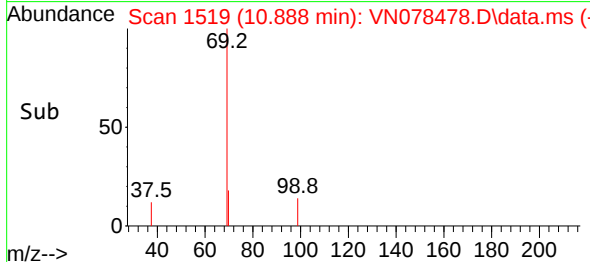
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 69 Resp: 1570  
Ion Ratio Lower Upper  
69 100  
41 89.5 39.6 59.4  
39 44.3 28.6 43.0

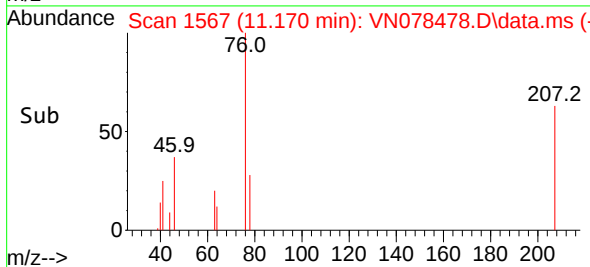
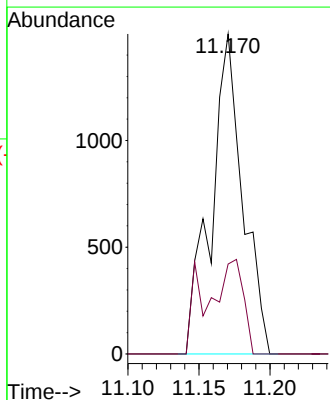
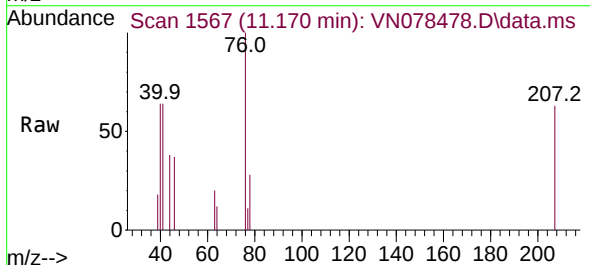
Manual Integrations  
APPROVED

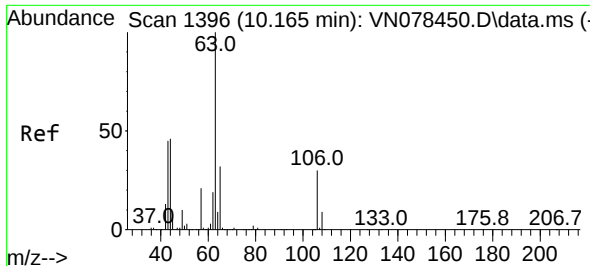
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#57  
1,3-Dichloropropane  
Concen: 0.254 ug/l  
RT: 11.170 min Scan# 1567  
Delta R.T. -0.001 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

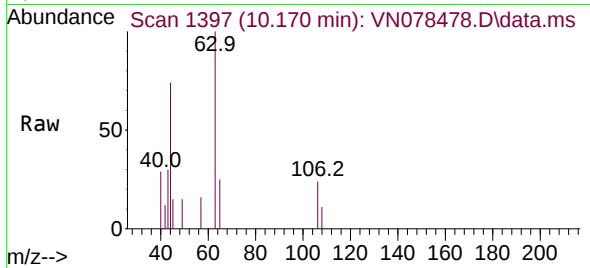
Tgt Ion: 76 Resp: 2316  
Ion Ratio Lower Upper  
76 100  
78 17.0 26.1 39.1





#58  
2-Chloroethyl Vinyl ether  
Concen: 0.777 ug/l  
RT: 10.170 min Scan# 1397  
Delta R.T. 0.005 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

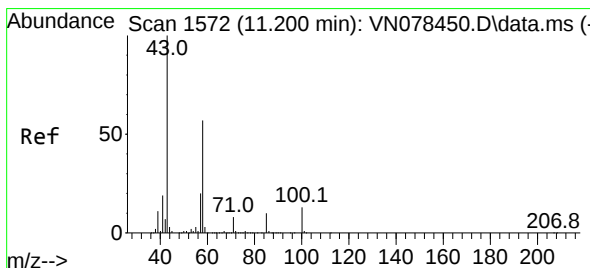
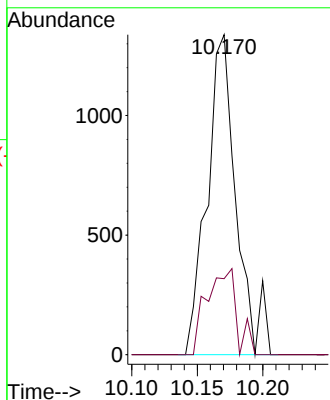
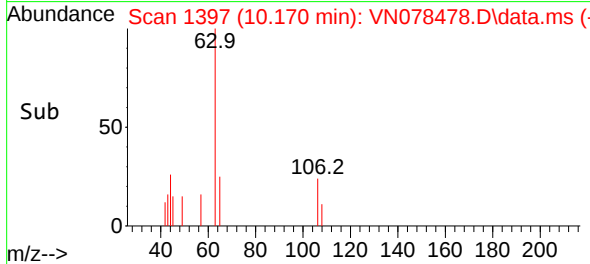
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 63 Resp: 207  
Ion Ratio Lower Upper  
63 100  
106 27.5 26.2 39.4

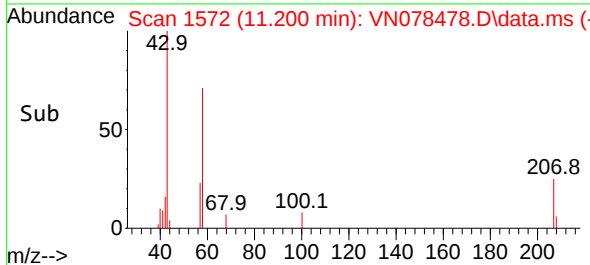
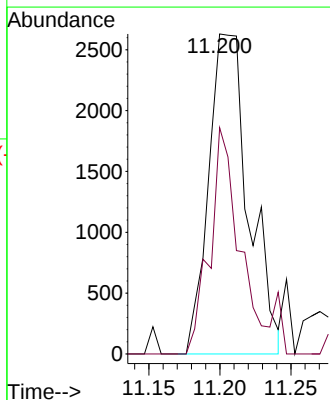
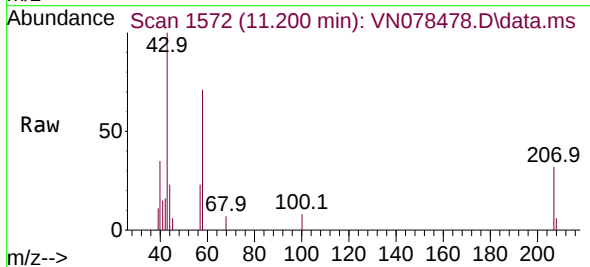
Manual Integrations  
APPROVED

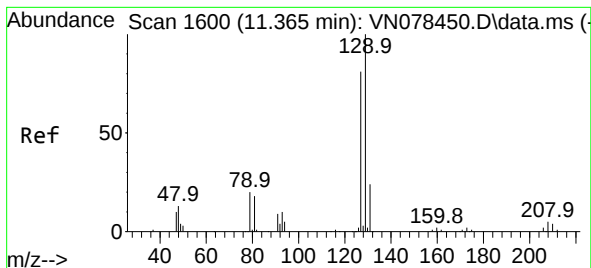
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#59  
2-Hexanone  
Concen: 1.205 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Tgt Ion: 43 Resp: 5177  
Ion Ratio Lower Upper  
43 100  
58 55.8 31.7 95.1





#60

Dibromochloromethane

Concen: 0.211 ug/l

RT: 11.370 min Scan# 1601

Delta R.T. 0.005 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

Tgt Ion:129 Resp: 1240

Ion Ratio Lower Upper

129 100

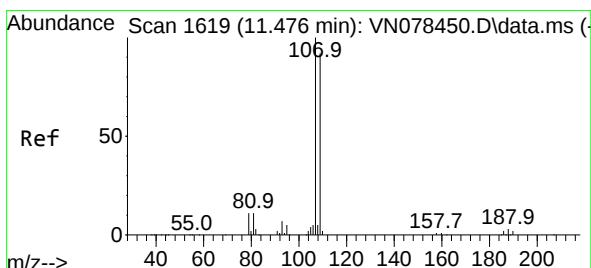
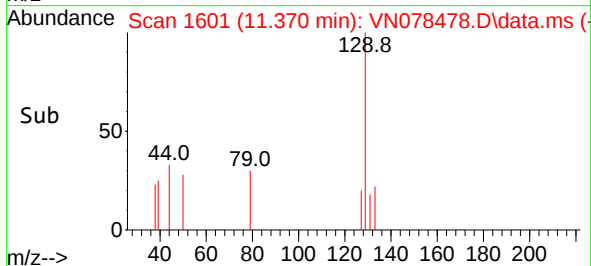
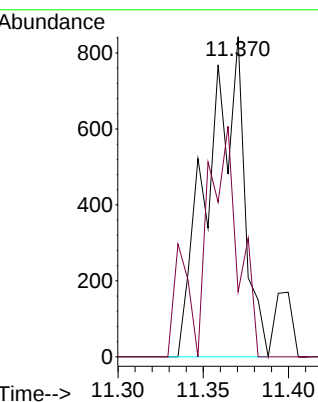
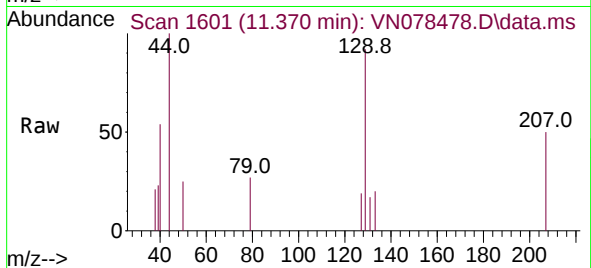
127 71.1 38.6 116.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#61

1,2-Dibromoethane

Concen: 0.228 ug/l

RT: 11.482 min Scan# 1620

Delta R.T. 0.006 min

Lab File: VN078478.D

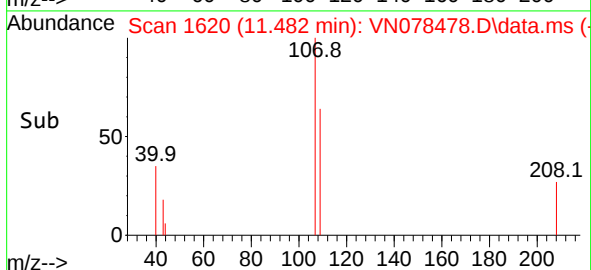
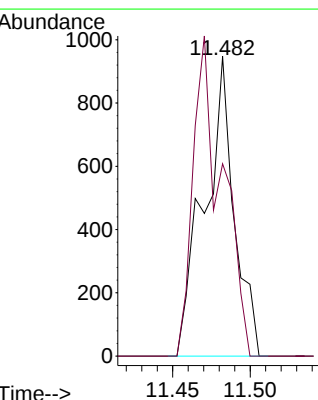
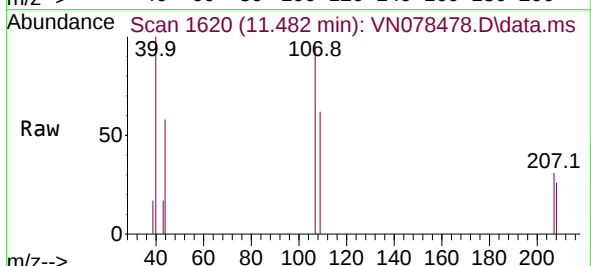
Acq: 12 Jul 2023 13:29

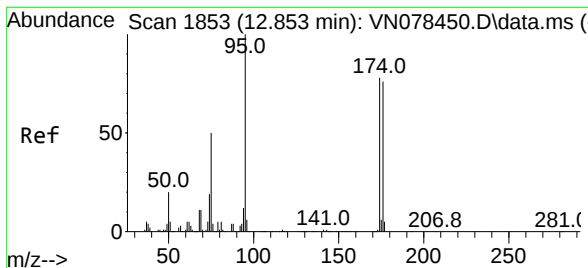
Tgt Ion:107 Resp: 1258

Ion Ratio Lower Upper

107 100

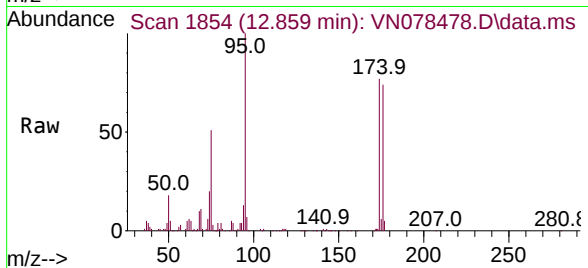
109 104.8 76.6 114.8





#62  
4-Bromofluorobenzene  
Concen: 44.588 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

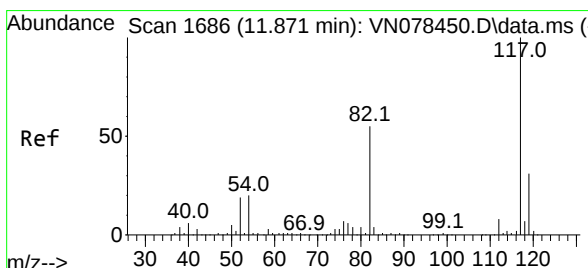
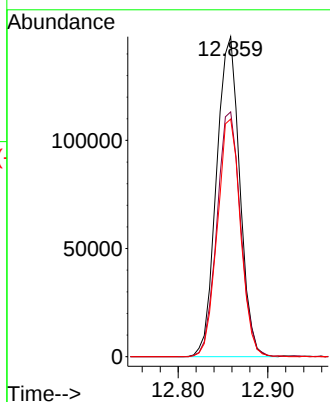
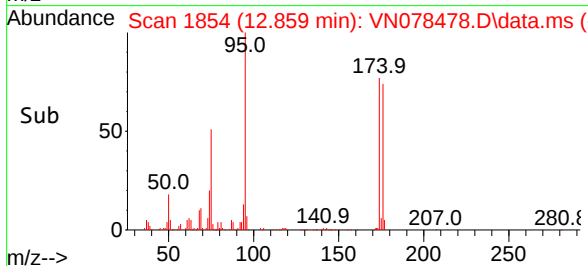
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



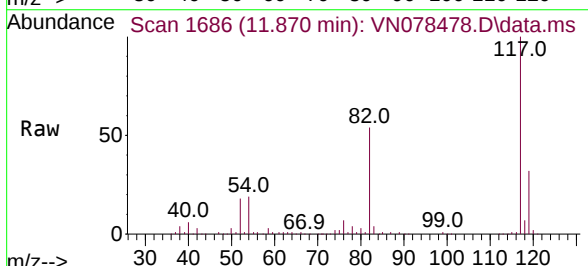
Tgt Ion: 95 Resp: 266024  
Ion Ratio Lower Upper  
95 100  
174 78.0 0.0 143.8  
176 74.0 0.0 135.8

Manual Integrations  
APPROVED

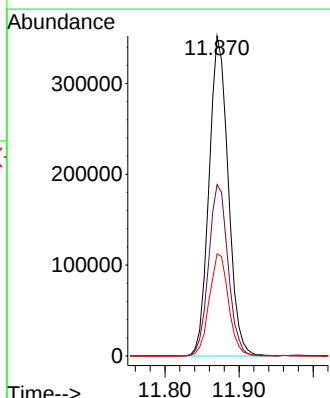
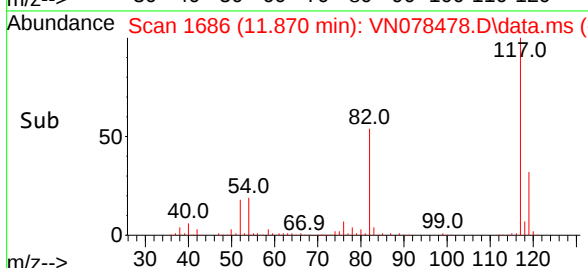
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023

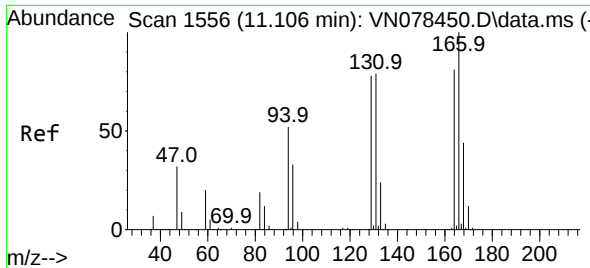


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.001 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29



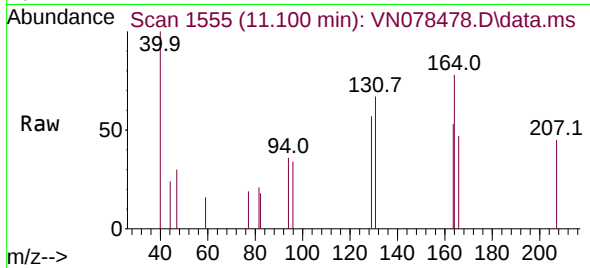
Tgt Ion:117 Resp: 632399  
Ion Ratio Lower Upper  
117 100  
82 53.5 44.0 66.0  
119 31.9 25.6 38.4





#64  
Tetrachloroethene  
Concen: 0.294 ug/l  
RT: 11.100 min Scan# 1556  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

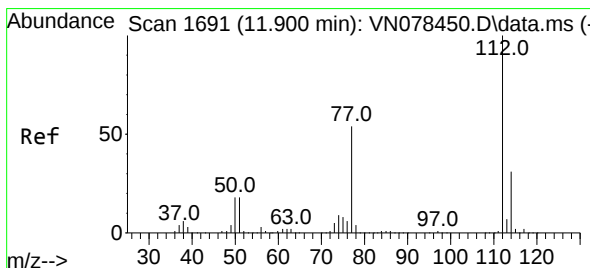
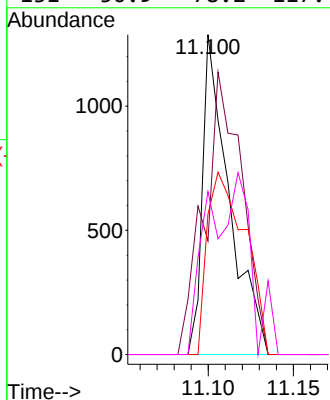
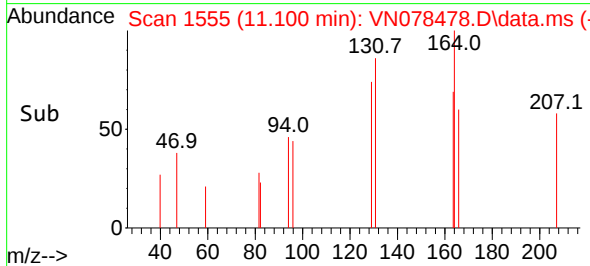
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion:164 Resp: 1398  
Ion Ratio Lower Upper  
164 100  
166 35.6 101.4 152.0  
129 43.9 82.4 123.6  
131 50.9 78.2 117.4#

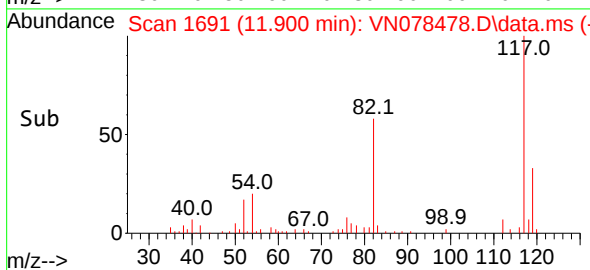
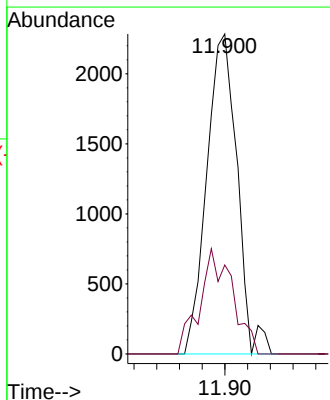
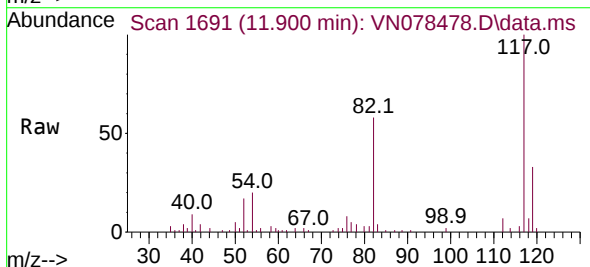
Manual Integrations  
APPROVED

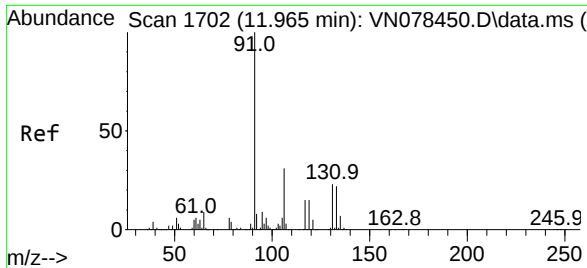
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#65  
Chlorobenzene  
Concen: 0.300 ug/l  
RT: 11.900 min Scan# 1691  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

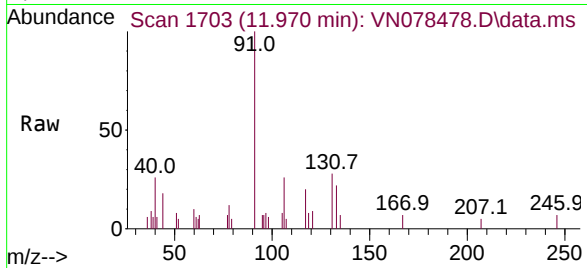
Tgt Ion:112 Resp: 4240  
Ion Ratio Lower Upper  
112 100  
114 27.8 25.0 37.4





#66  
1,1,1,2-Tetrachloroethane  
Concen: 0.272 ug/l  
RT: 11.970 min Scan# 1702  
Delta R.T. 0.005 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

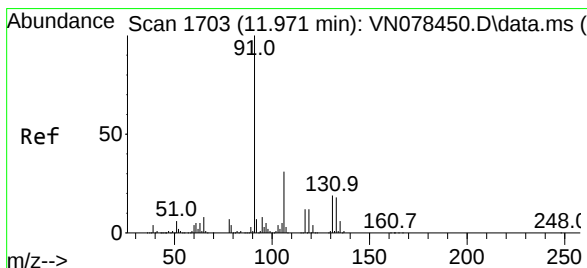
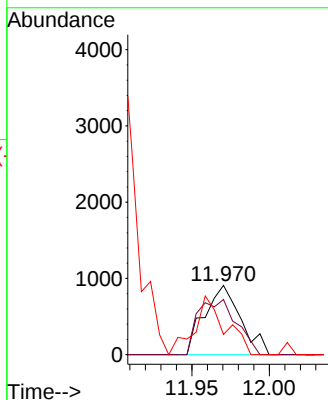
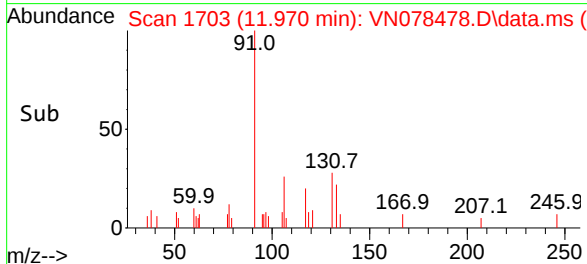
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion:131 Resp: 1480  
Ion Ratio Lower Upper  
131 100  
133 84.8 46.4 139.1  
119 0.0 34.1 102.2

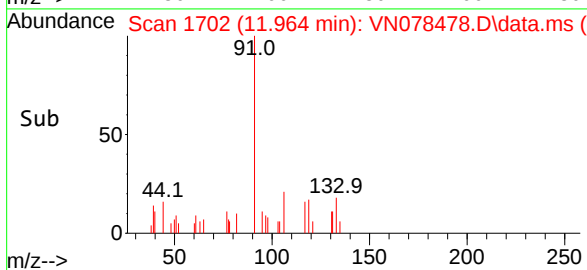
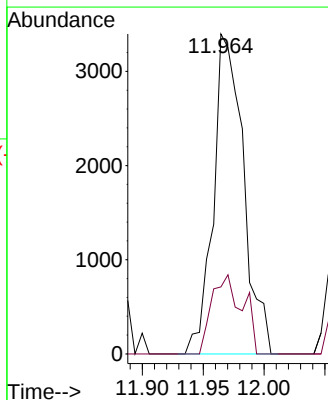
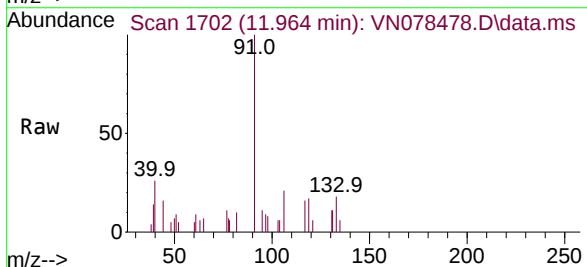
Manual Integrations  
APPROVED

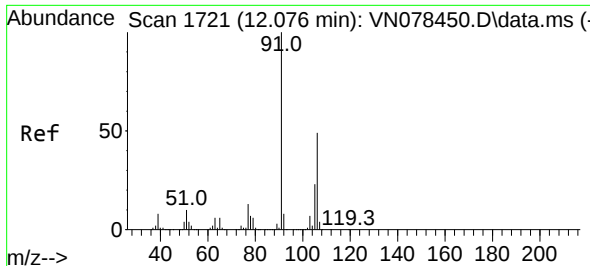
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#67  
Ethyl Benzene  
Concen: 0.244 ug/l  
RT: 11.964 min Scan# 1702  
Delta R.T. -0.007 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Tgt Ion: 91 Resp: 5831  
Ion Ratio Lower Upper  
91 100  
106 21.0 25.6 38.4#





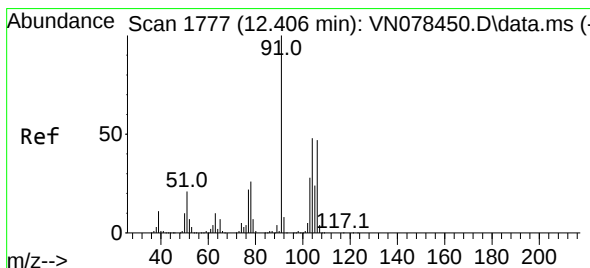
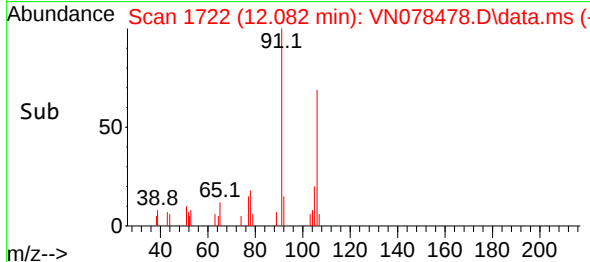
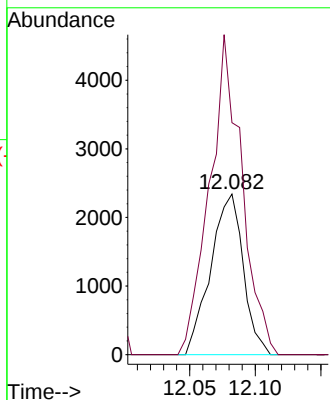
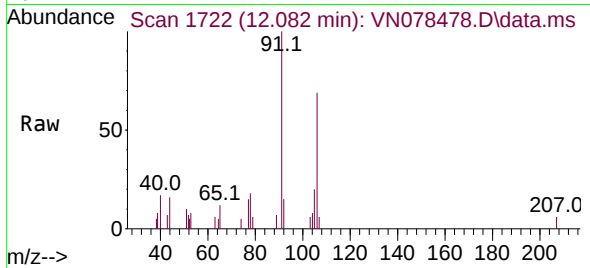
#68  
m/p-Xylenes  
Concen: 0.458 ug/l  
RT: 12.082 min Scan# 1722  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023

Tgt Ion:106 Resp: 4048  
Ion Ratio Lower Upper  
106 100  
91 197.3 159.6 239.4

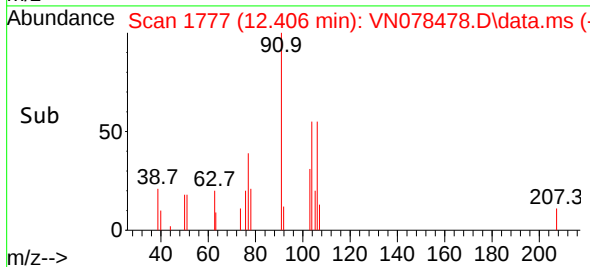
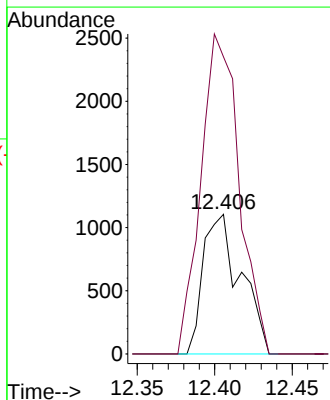
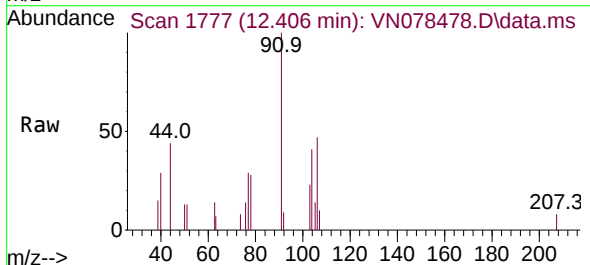
Manual Integrations  
APPROVED

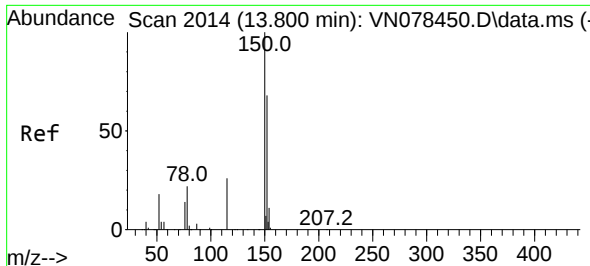
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#69  
o-Xylene  
Concen: 0.209 ug/l  
RT: 12.406 min Scan# 1777  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

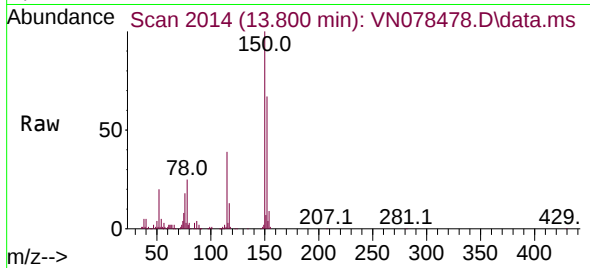
Tgt Ion:106 Resp: 1862  
Ion Ratio Lower Upper  
106 100  
91 233.8 105.2 315.5





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 2014  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

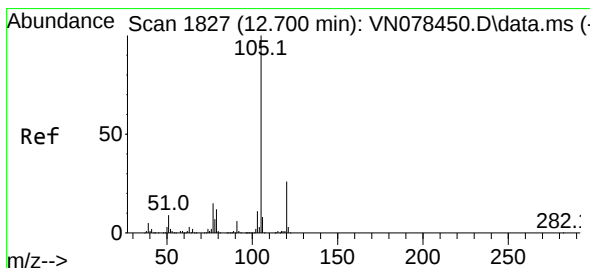
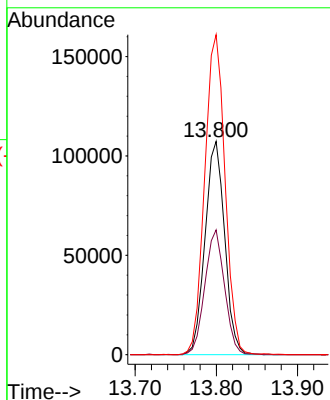
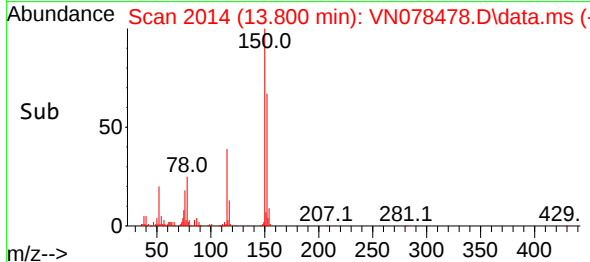
Instrument : MSVOA\_N  
ClientSampleId : MDL-WATER-03-QT3-2023



Tgt Ion:152 Resp: 180114  
Ion Ratio Lower Upper  
152 100  
115 58.8 32.3 96.8  
150 155.2 0.0 355.8

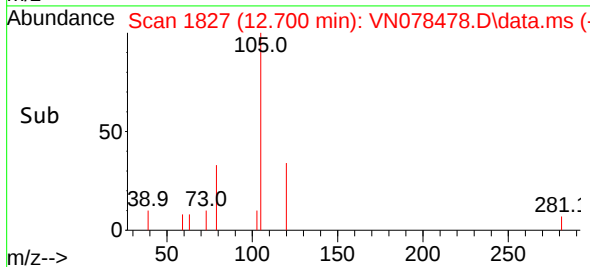
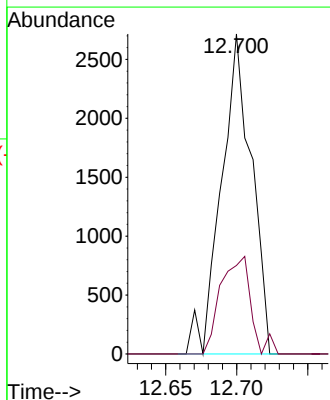
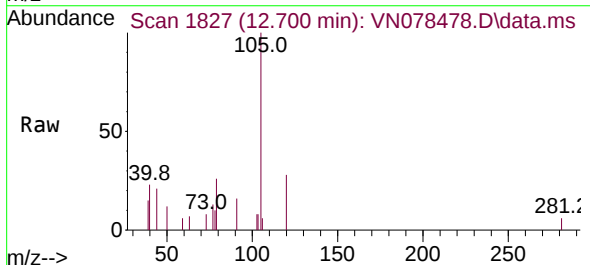
Manual Integrations  
APPROVED

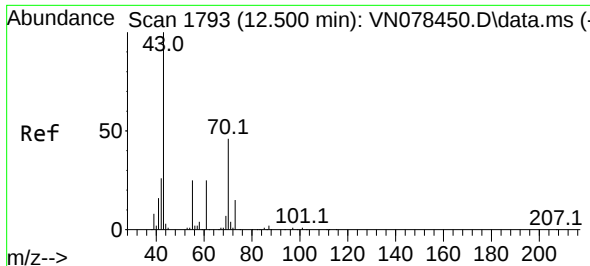
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#73  
Isopropylbenzene  
Concen: 0.237 ug/l  
RT: 12.700 min Scan# 1827  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

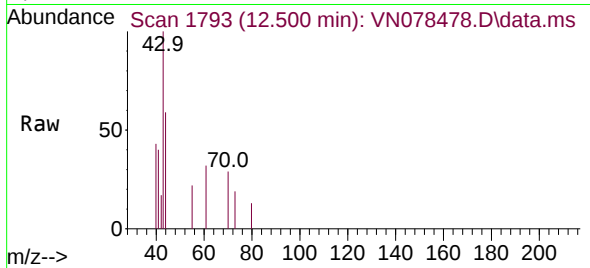
Tgt Ion:105 Resp: 4017  
Ion Ratio Lower Upper  
105 100  
120 30.6 13.1 39.1





#74  
N-amy1 acetate  
Concen: 0.350 ug/l  
RT: 12.500 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

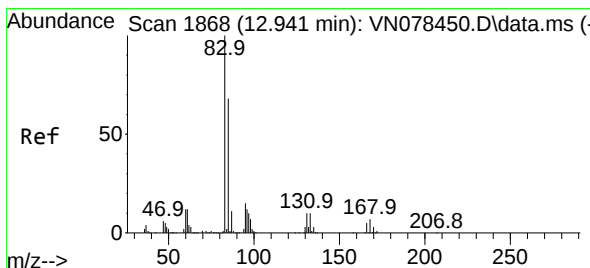
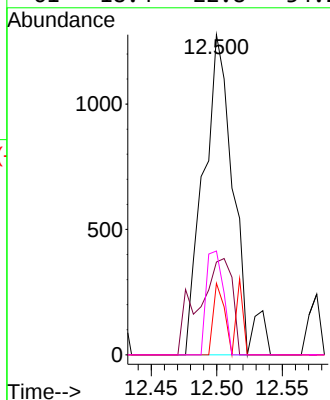
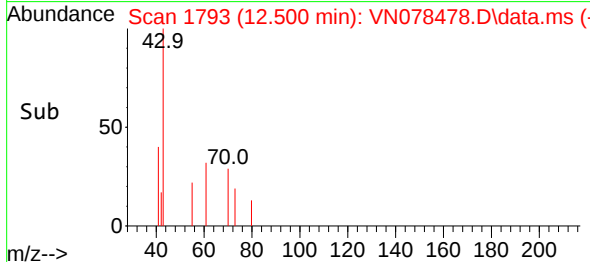
Instrument : MSVOA\_N  
ClientSampleId : MDL-WATER-03-QT3-2023



| Tgt Ion: | 43    | Resp: | 2039  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 33.5  | 43.4  | 65.2  |
| 55       | 8.2   | 21.4  | 32.0  |
| 61       | 18.4  | 22.8  | 34.2  |

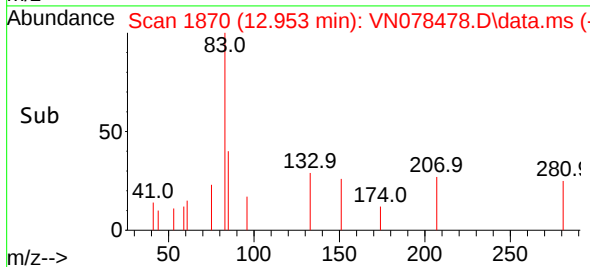
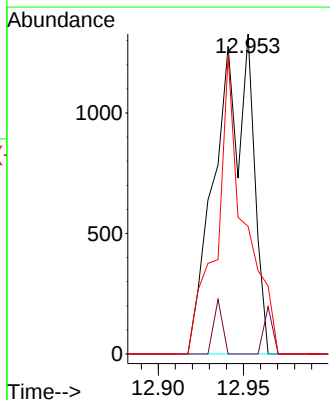
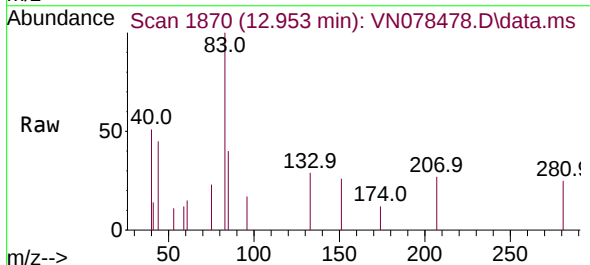
Manual Integrations  
APPROVED

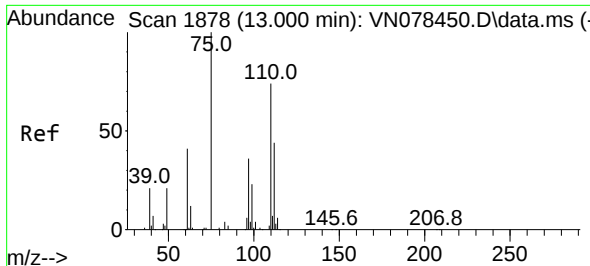
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#75  
1,1,2,2-Tetrachloroethane  
Concen: 0.340 ug/l  
RT: 12.953 min Scan# 1870  
Delta R.T. 0.012 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

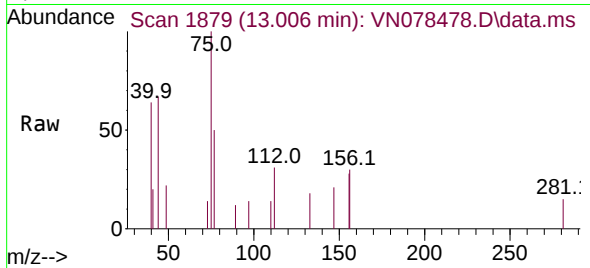
| Tgt Ion: | 83    | Resp: | 1941  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 3.6   | 5.0   | 15.0  |
| 85       | 0.0   | 31.9  | 95.7  |





#76  
1,2,3-Trichloropropane  
Concen: 0.512 ug/l m  
RT: 13.006 min Scan# 1879  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

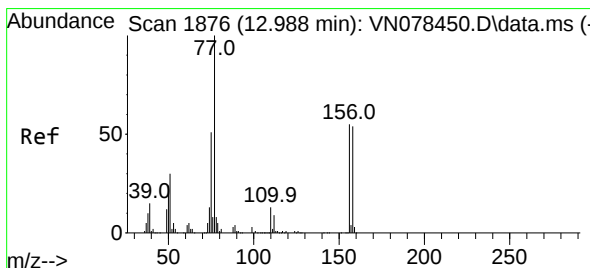
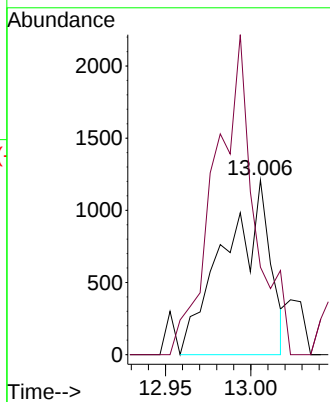
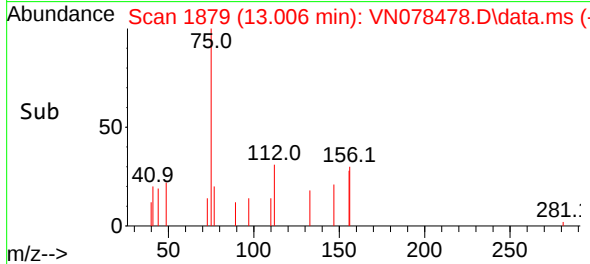
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



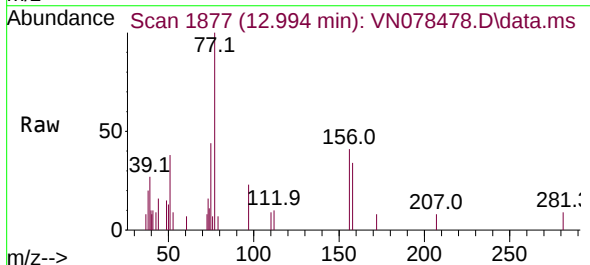
Tgt Ion: 75 Resp: 2228  
Ion Ratio Lower Upper  
75 100  
77 76.7 84.5 253.5

Manual Integrations  
APPROVED

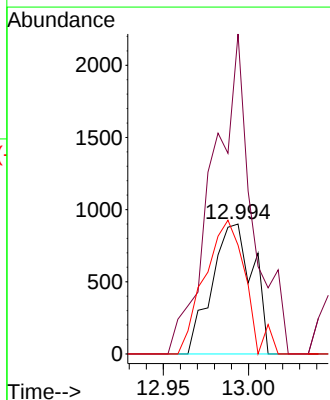
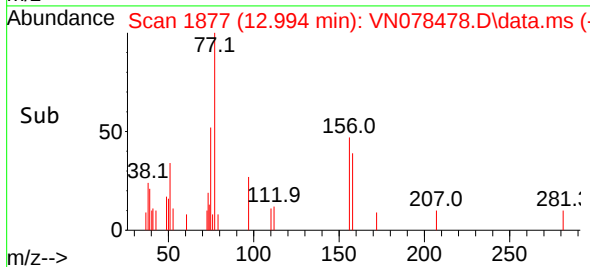
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023

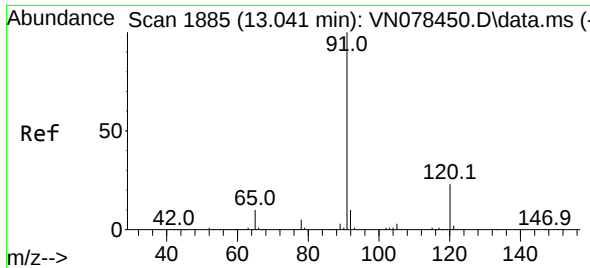


#77  
Bromobenzene  
Concen: 0.363 ug/l  
RT: 12.994 min Scan# 1877  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29



Tgt Ion:156 Resp: 1508  
Ion Ratio Lower Upper  
156 100  
77 238.1 107.7 323.3  
158 102.3 48.4 145.3





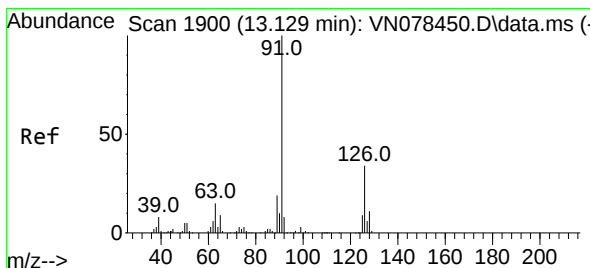
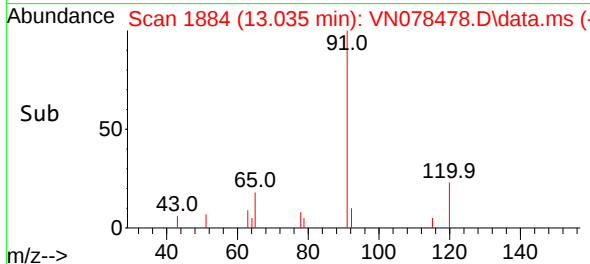
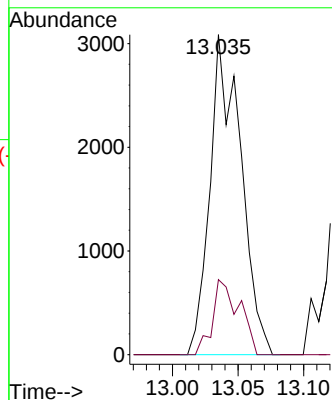
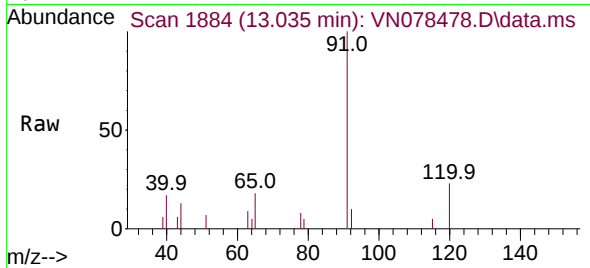
#78  
n-propylbenzene  
Concen: 0.277 ug/l  
RT: 13.035 min Scan# 1884  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023

Tgt Ion: 91 Resp: 5019  
Ion Ratio Lower Upper  
91 100  
120 20.4 11.5 34.4

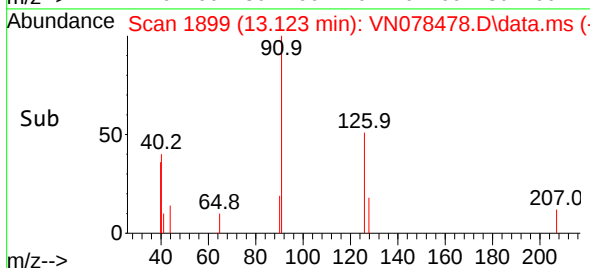
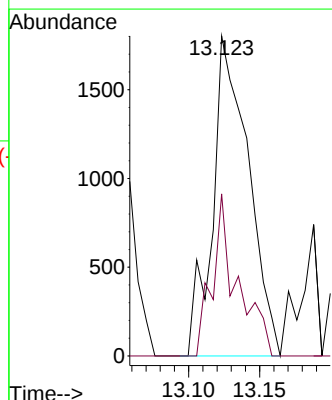
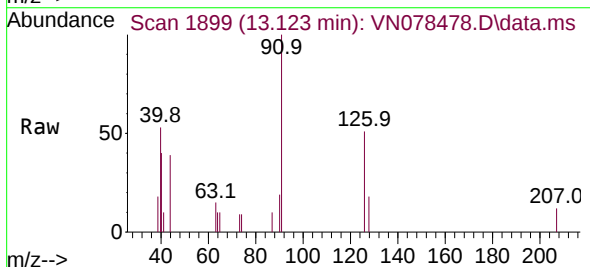
Manual Integrations  
APPROVED

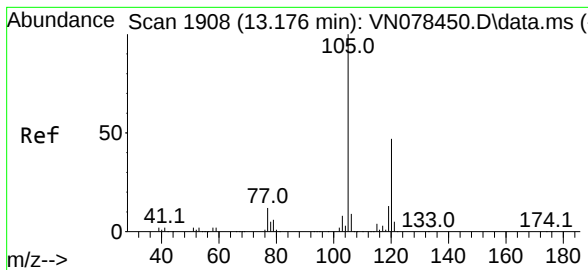
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#79  
2-Chlorotoluene  
Concen: 0.267 ug/l  
RT: 13.123 min Scan# 1899  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

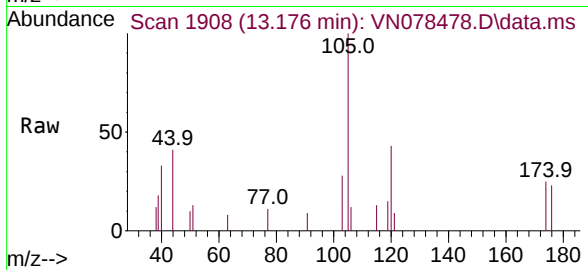
Tgt Ion: 91 Resp: 3167  
Ion Ratio Lower Upper  
91 100  
126 35.4 16.3 48.8





#80  
1,3,5-Trimethylbenzene  
Concen: 0.290 ug/l  
RT: 13.176 min Scan# 1908  
Delta R.T. 0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

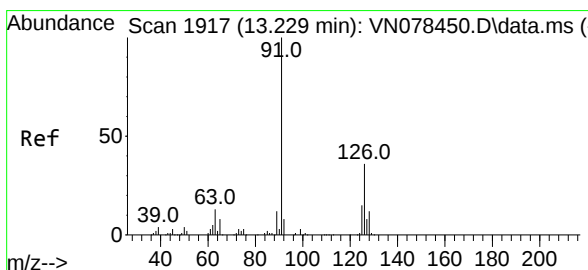
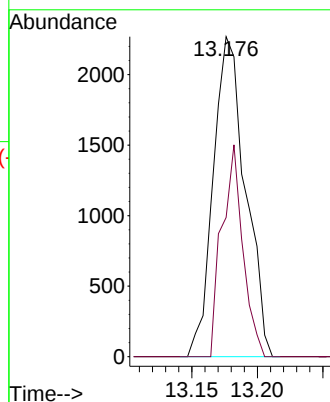
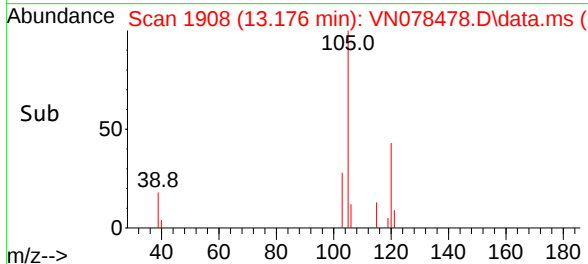
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



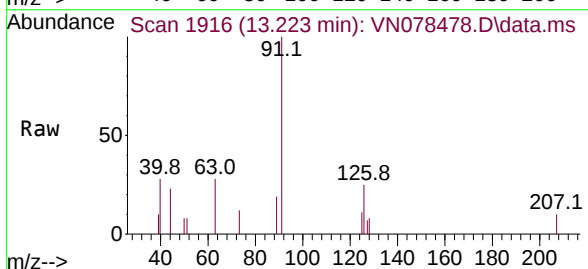
Tgt Ion:105 Resp: 3879  
Ion Ratio Lower Upper  
105 100  
120 42.9 24.1 72.3

Manual Integrations  
APPROVED

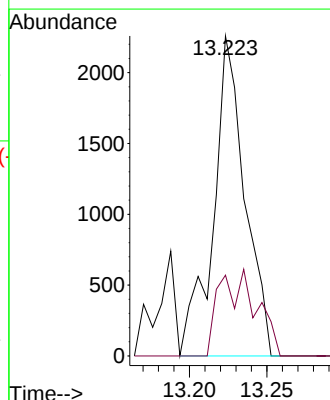
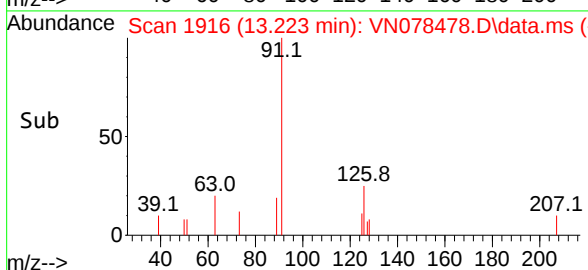
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023

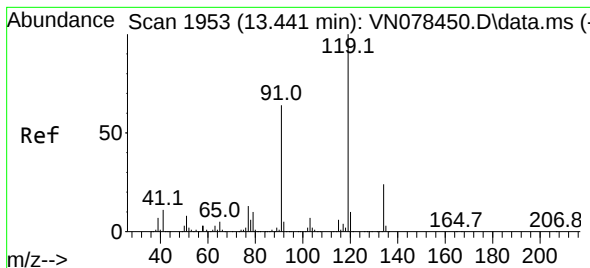


#82  
4-Chlorotoluene  
Concen: 0.288 ug/l  
RT: 13.223 min Scan# 1916  
Delta R.T. -0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29



Tgt Ion: 91 Resp: 3186  
Ion Ratio Lower Upper  
91 100  
126 31.9 16.7 50.0





#83

tert-Butylbenzene

Concen: 0.224 ug/l

RT: 13.435 min Scan# 1953

Delta R.T. -0.006 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

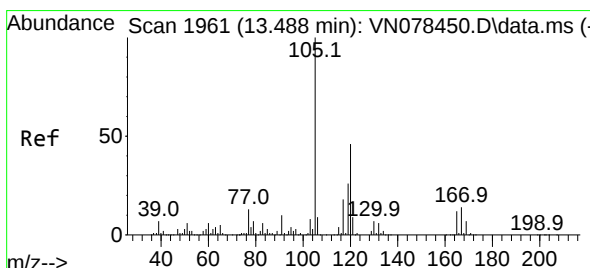
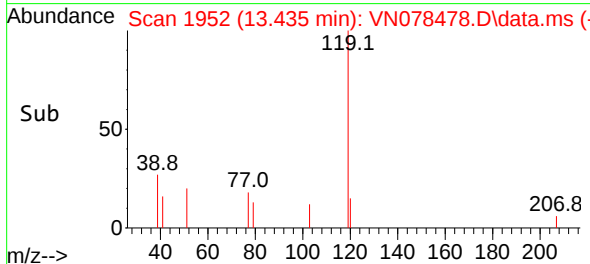
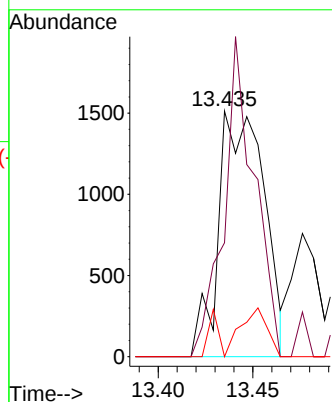
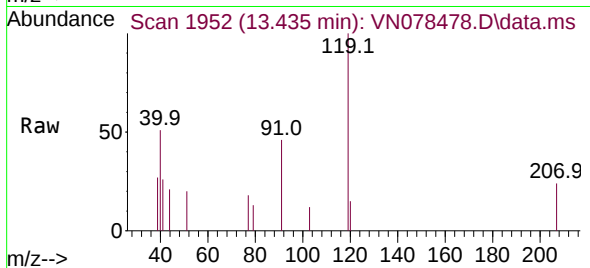
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 254   |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 86.3  | 33.9  | 101.7 |
| 134       | 4.0   | 13.2  | 39.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#84

1,2,4-Trimethylbenzene

Concen: 0.267 ug/l

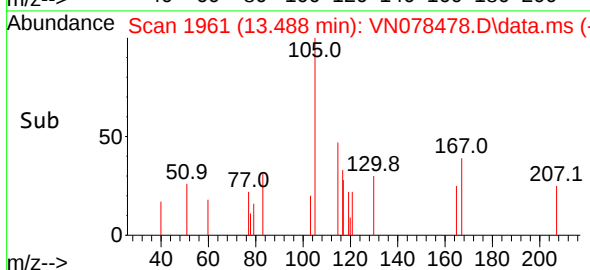
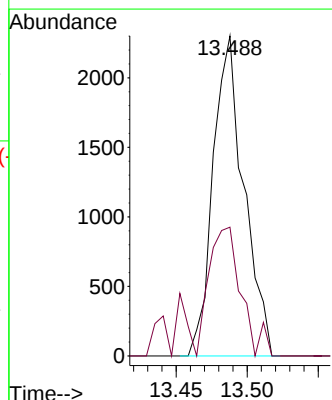
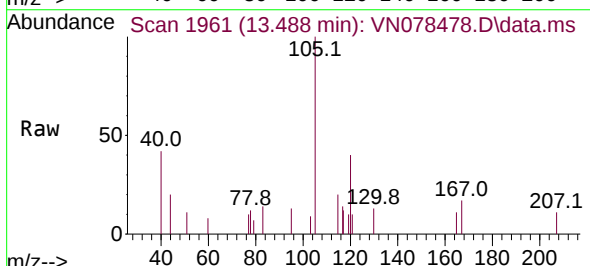
RT: 13.488 min Scan# 1961

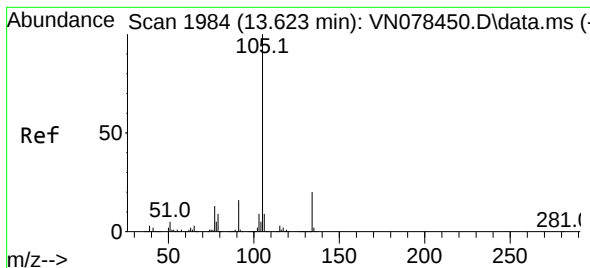
Delta R.T. -0.000 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 3465 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 42.2  | 22.0  | 66.0 |





#85

sec-Butylbenzene

Concen: 0.256 ug/l

RT: 13.623 min Scan# 1984

Delta R.T. 0.000 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

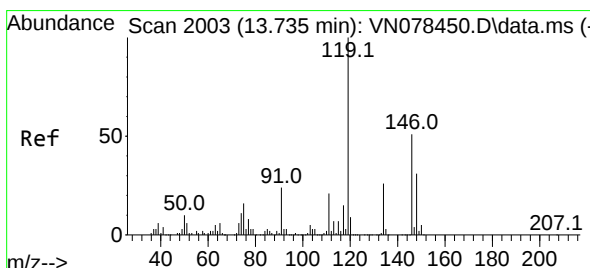
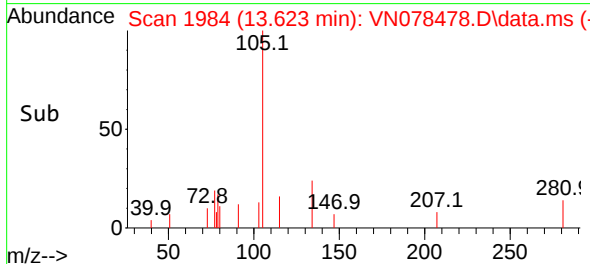
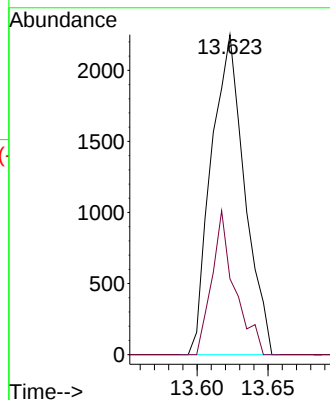
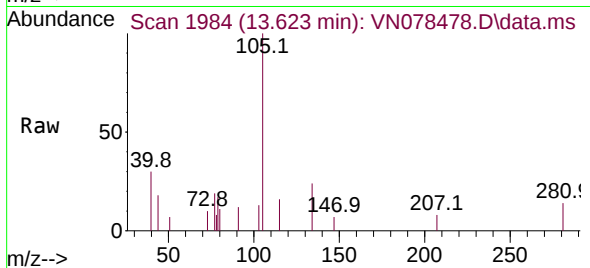
Tgt Ion:105 Resp: 3670  
 Ion Ratio Lower Upper  
 105 100  
 134 30.8 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#86

p-Isopropyltoluene

Concen: 0.216 ug/l

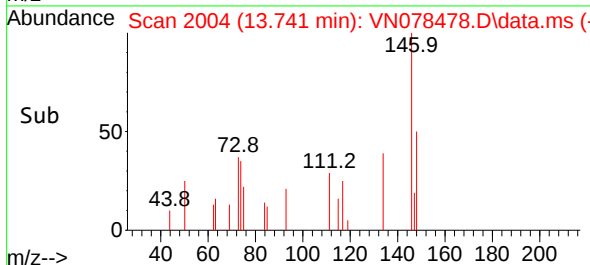
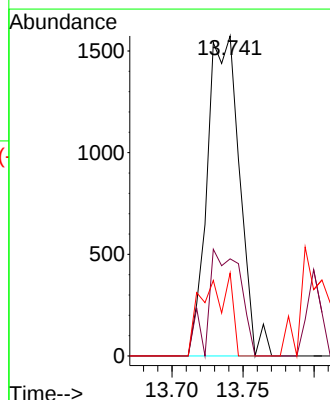
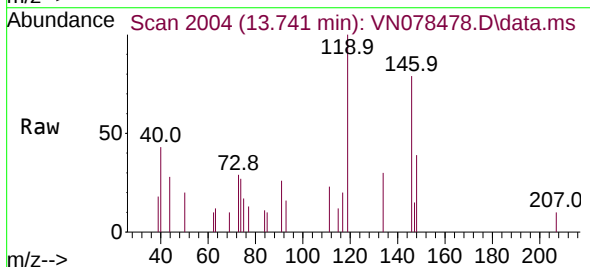
RT: 13.741 min Scan# 2004

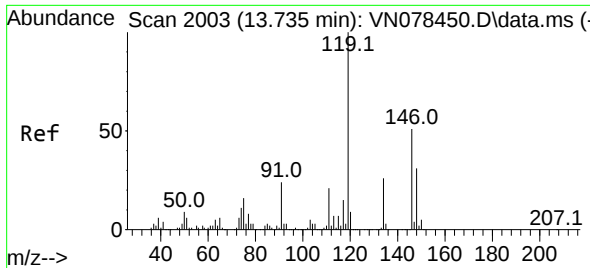
Delta R.T. 0.006 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

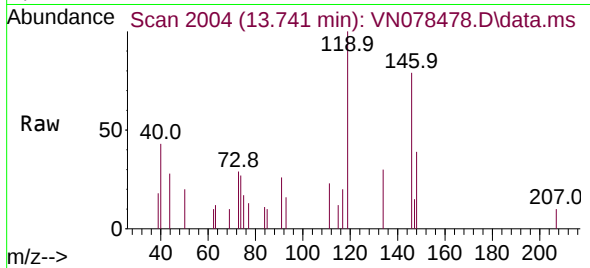
Tgt Ion:119 Resp: 2488  
 Ion Ratio Lower Upper  
 119 100  
 134 33.2 12.6 37.8  
 91 22.2 12.4 37.2





#87  
1,3-Dichlorobenzene  
Concen: 0.304 ug/l  
RT: 13.741 min Scan# 2004  
Delta R.T. 0.006 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

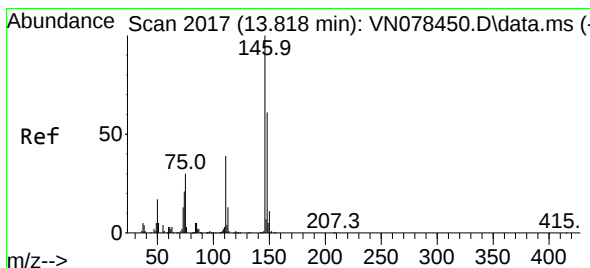
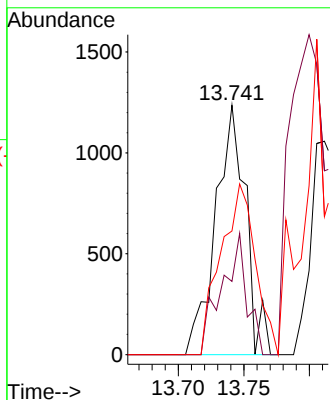
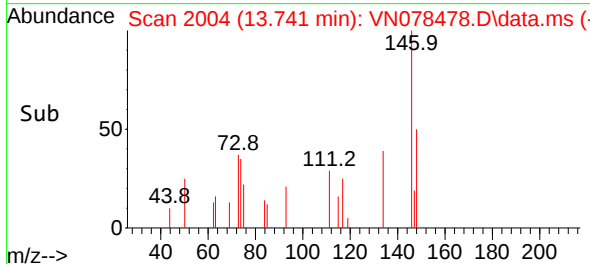
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion:146 Resp: 1973  
Ion Ratio Lower Upper  
146 100  
111 40.6 22.1 66.3  
148 78.8 32.0 96.0

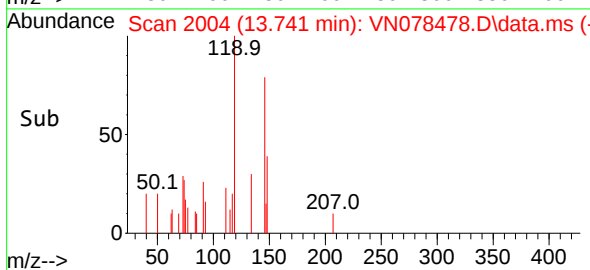
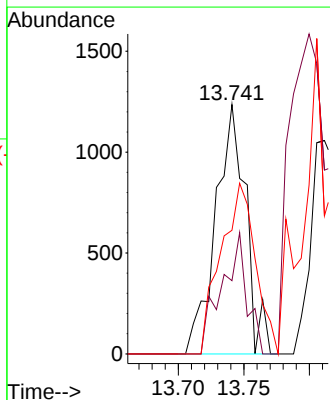
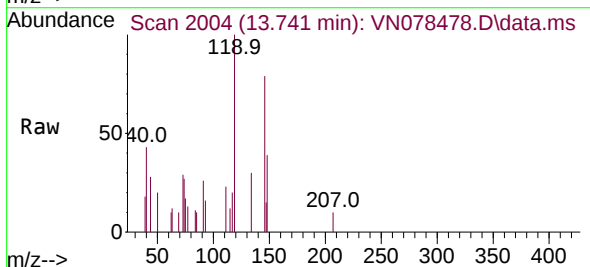
Manual Integrations  
APPROVED

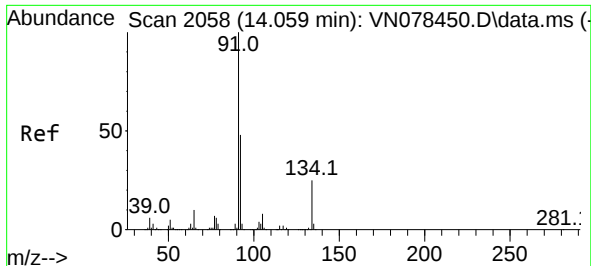
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#88  
1,4-Dichlorobenzene  
Concen: 0.301 ug/l  
RT: 13.741 min Scan# 2004  
Delta R.T. -0.077 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

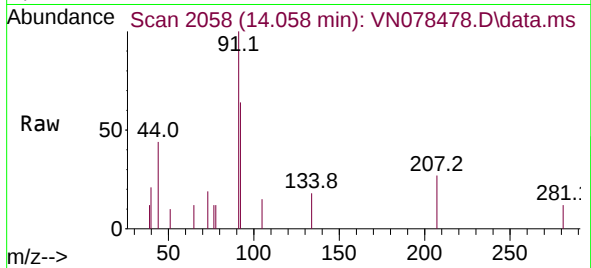
Tgt Ion:146 Resp: 1973  
Ion Ratio Lower Upper  
146 100  
111 40.6 20.6 61.8  
148 78.8 31.6 94.8





#89  
n-Butylbenzene  
Concen: 0.287 ug/l  
RT: 14.058 min Scan# 2058  
Delta R.T. -0.001 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

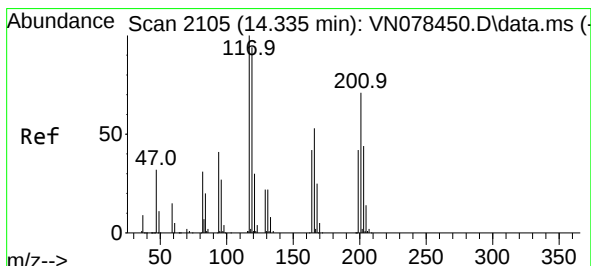
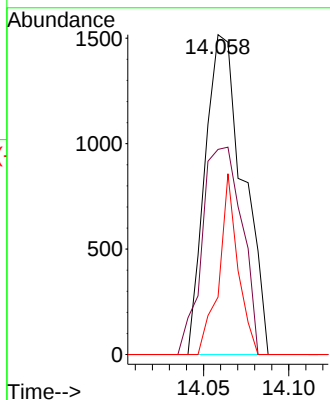
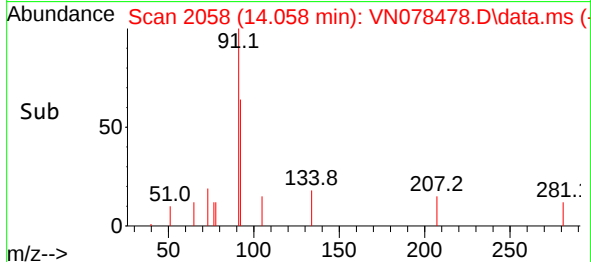
Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT3-2023



Tgt Ion: 91 Resp: 236  
Ion Ratio Lower Upper  
91 100  
92 67.6 26.4 79.0  
134 27.9 12.6 37.6

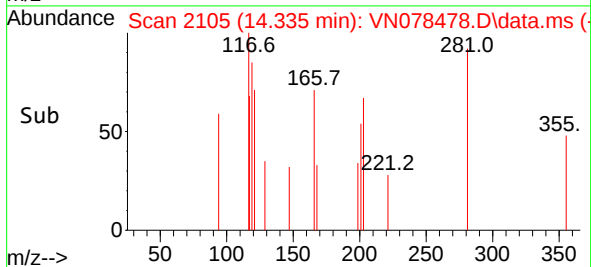
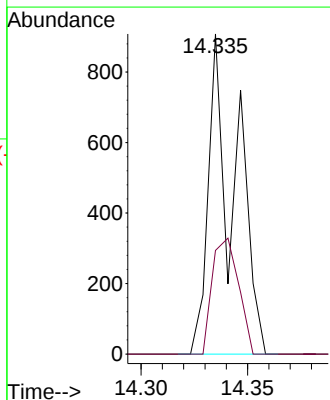
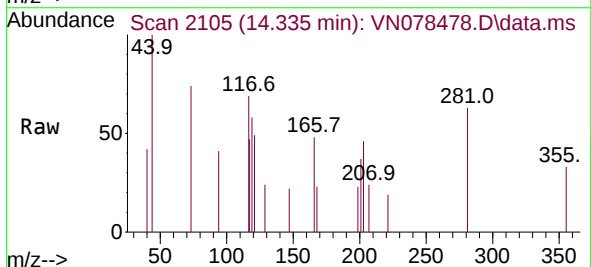
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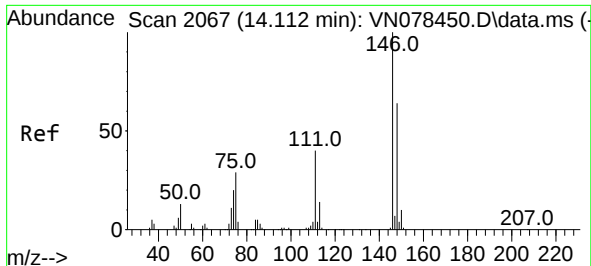
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#90  
Hexachloroethane  
Concen: 0.322 ug/l  
RT: 14.335 min Scan# 2105  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Tgt Ion:117 Resp: 785  
Ion Ratio Lower Upper  
117 100  
201 35.9 29.3 88.0





#91

1,2-Dichlorobenzene

Concen: 0.261 ug/l

RT: 14.117 min Scan# 2068

Delta R.T. 0.005 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

Instrument :

MSVOA\_N

ClientSampleId :

MDL-WATER-03-QT3-2023

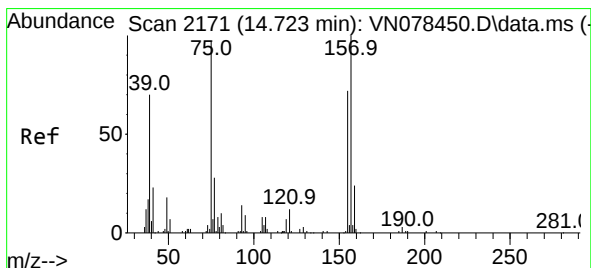
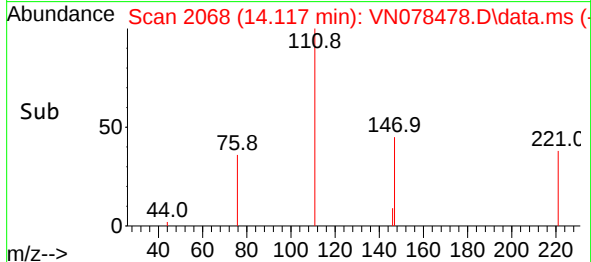
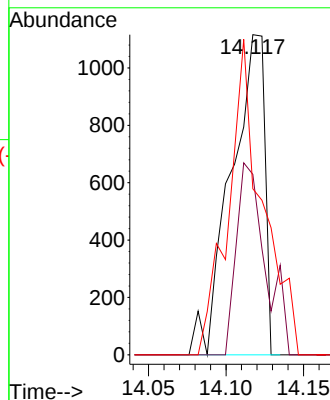
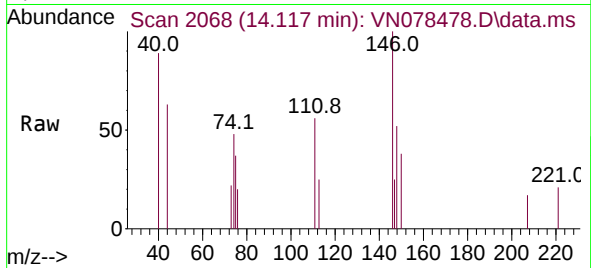
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 1680 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 51.4  | 22.0  | 66.0 |
| 148       | 99.6  | 31.8  | 95.3 |

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Reviewed By :John Carlone 07/13/2023

Supervised By :Mahesh Dadoda 07/13/2023



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.697 ug/l

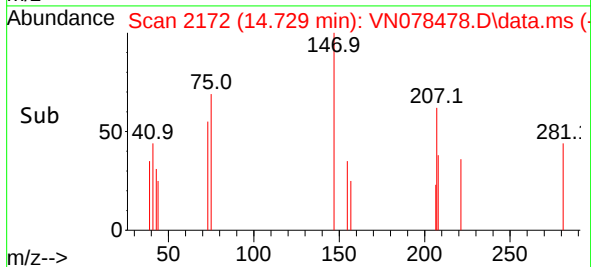
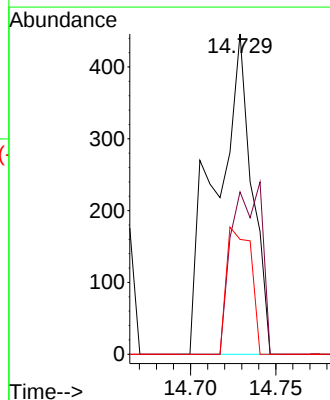
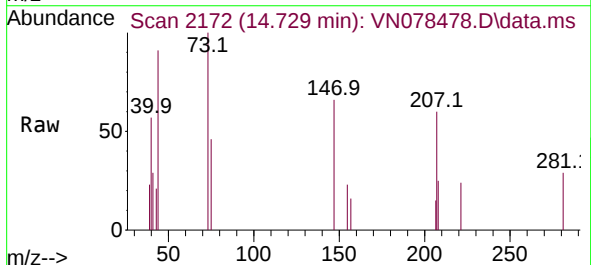
RT: 14.729 min Scan# 2172

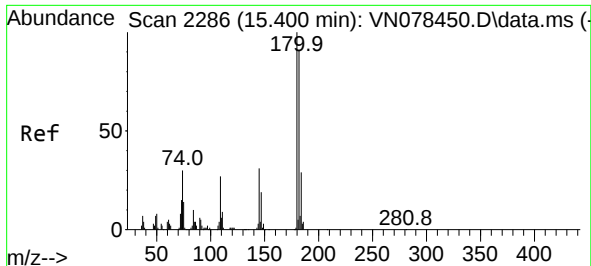
Delta R.T. 0.006 min

Lab File: VN078478.D

Acq: 12 Jul 2023 13:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 657   |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 44.0  | 39.1  | 117.2 |
| 157       | 26.6  | 50.3  | 150.9 |





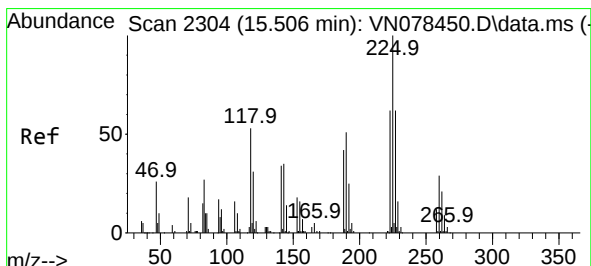
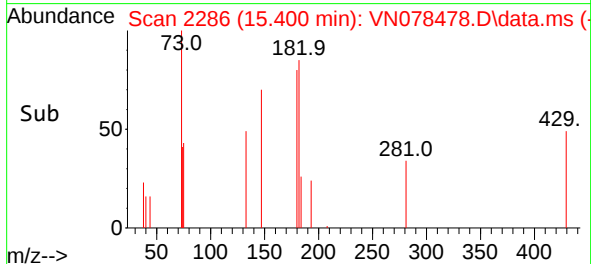
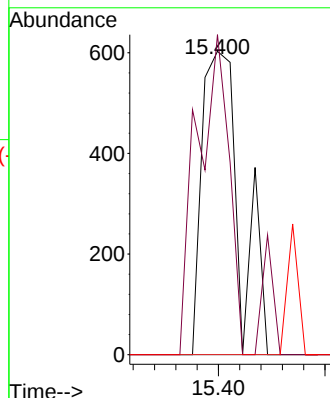
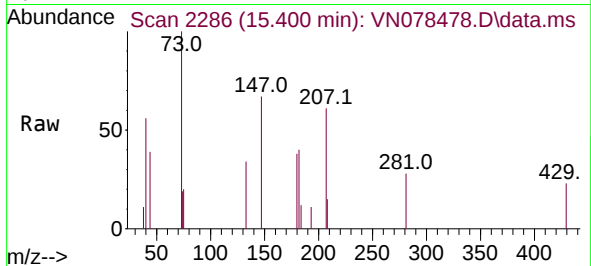
#93  
1,2,4-Trichlorobenzene  
Concen: 0.361 ug/l  
RT: 15.400 min Scan# 2286  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Instrument : MSVOA\_N  
ClientSampleId : MDL-WATER-03-QT3-2023

Tgt Ion:180 Resp: 744  
Ion Ratio Lower Upper  
180 100  
182 88.8 46.1 138.2  
145 0.0 16.6 49.8

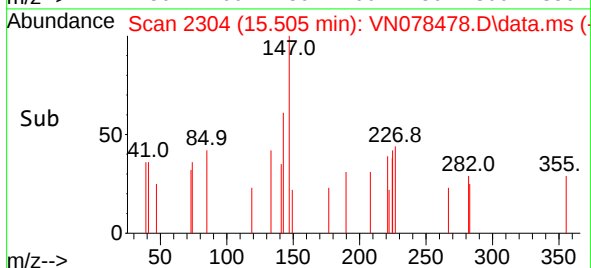
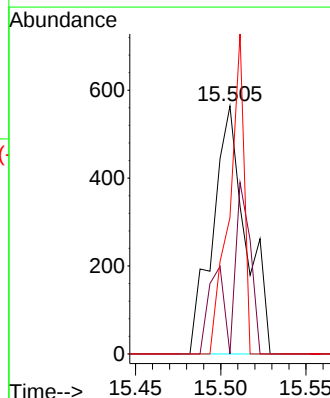
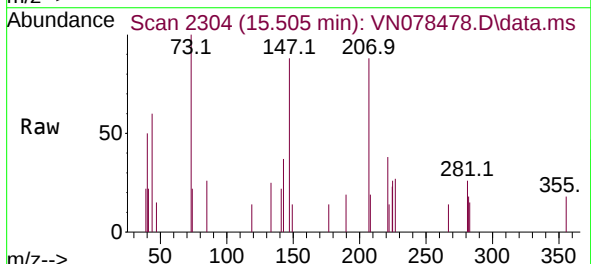
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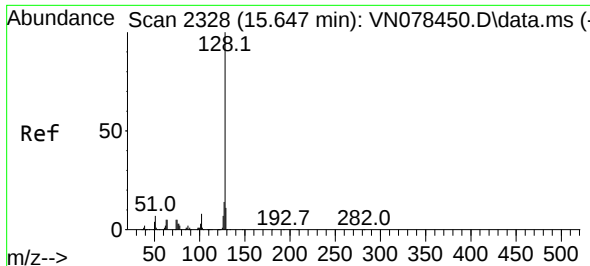
Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#94  
Hexachlorobutadiene  
Concen: 0.566 ug/l  
RT: 15.505 min Scan# 2304  
Delta R.T. -0.001 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

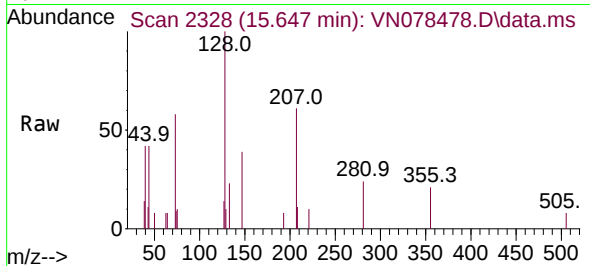
Tgt Ion:225 Resp: 764  
Ion Ratio Lower Upper  
225 100  
223 46.6 31.3 93.8  
227 57.6 31.9 95.9





#95  
Naphthalene  
Concen: 0.591 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. -0.000 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

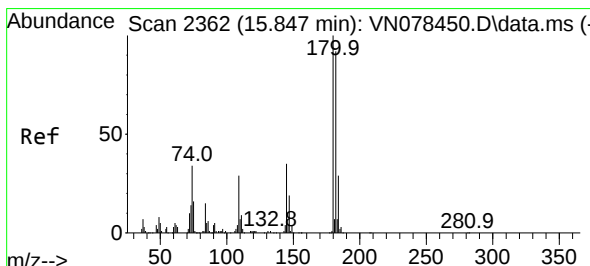
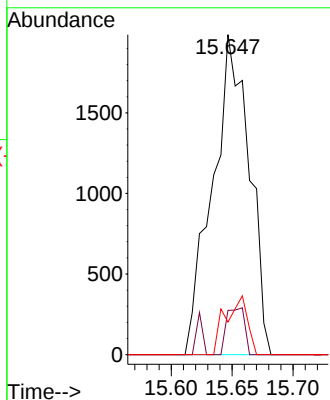
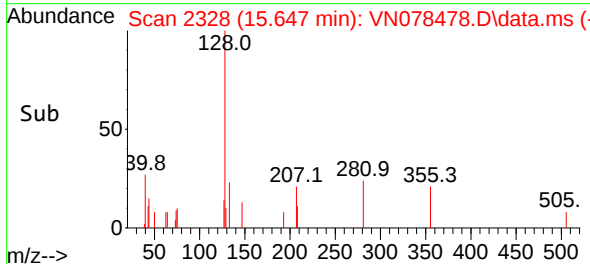
Instrument : MSVOA\_N  
ClientSampleId : MDL-WATER-03-QT3-2023



Tgt Ion:128 Resp: 4172  
Ion Ratio Lower Upper  
128 100  
127 7.1 10.0 15.0  
129 11.0 8.7 13.1

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Reviewed By :John Carlone 07/13/2023  
Supervised By :Mahesh Dadoda 07/13/2023



#96  
1,2,3-Trichlorobenzene  
Concen: 0.506 ug/l  
RT: 15.852 min Scan# 2363  
Delta R.T. 0.005 min  
Lab File: VN078478.D  
Acq: 12 Jul 2023 13:29

Tgt Ion:180 Resp: 1201  
Ion Ratio Lower Upper  
180 100  
182 74.4 46.2 138.6  
145 0.0 17.5 52.6

