

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032323\  
 Data File : VN077156.D  
 Acq On : 23 Mar 2023 17:55  
 Operator : JC\MD  
 Sample : 02048-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1R

Quant Time: Mar 24 01:36:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 20 08:50:30 2023  
 Response via : Initial Calibration

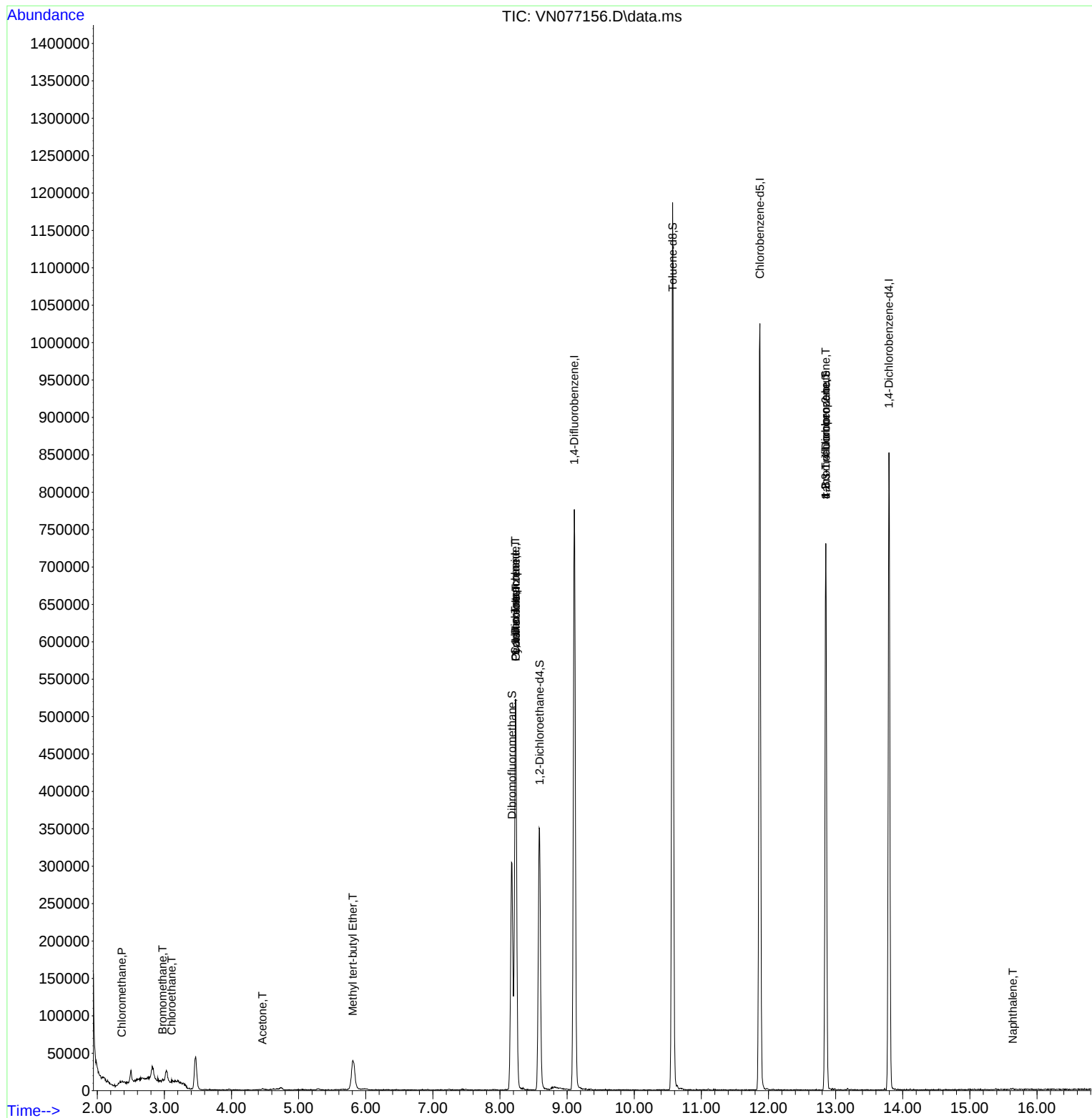
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.236  | 168   | 364363   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107  | 114   | 642964   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.872 | 117   | 568657   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795 | 152   | 216113   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.589  | 65    | 288272   | 49.531    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 99.060%  |
| 35) Dibromofluoromethane      | 8.178  | 113   | 212832   | 47.267    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 94.540%  |
| 50) Toluene-d8                | 10.572 | 98    | 797762   | 49.598    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 99.200%  |
| 62) 4-Bromofluorobenzene      | 12.854 | 95    | 235056   | 41.356    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 82.720%# |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.143  | 85    | 146      | Below Cal | #      | 42       |
| 3) Chloromethane              | 2.366  | 50    | 979      | 0.267     | ug/l # | 43       |
| 5) Bromomethane               | 2.972  | 94    | 660      | 0.247     | ug/l   | 82       |
| 6) Chloroethane               | 3.107  | 64    | 1059     | 0.422     | ug/l # | 63       |
| 16) Acetone                   | 4.460  | 43    | 2290     | 0.883     | ug/l # | 43       |
| 19) Methyl tert-butyl Ether   | 5.807  | 73    | 58528    | 3.686     | ug/l   | 94       |
| 31) Cyclohexane               | 8.236  | 56    | 10263    | 1.078     | ug/l # | 27       |
| 36) 1,1-Dichloropropene       | 8.231  | 75    | 34157    | 4.857     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.231  | 117   | 40478    | 5.909     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 12.854 | 75    | 134343   | 24.032    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.854 | 75    | 134343   | 66.151    | ug/l # | 10       |
| 95) Naphthalene               | 15.642 | 128   | 637      | 1.955     | ug/l # | 95       |
| -----                         |        |       |          |           |        |          |

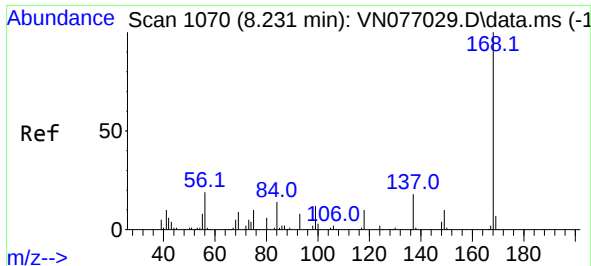
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 24 01:36:16 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 20 08:50:30 2023  
Response via : Initial Calibration

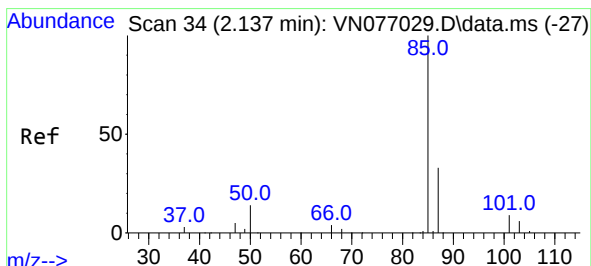
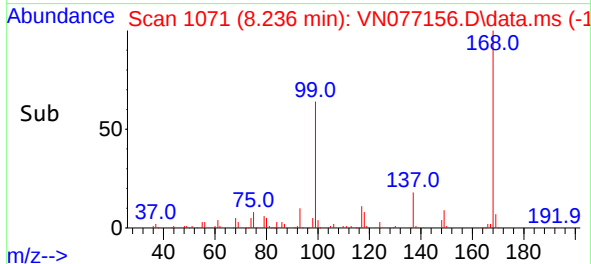
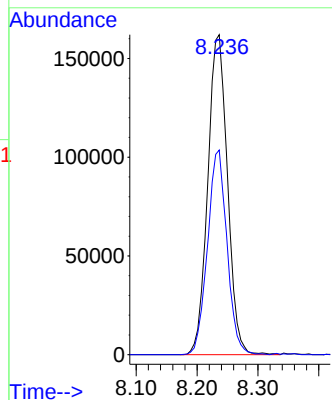
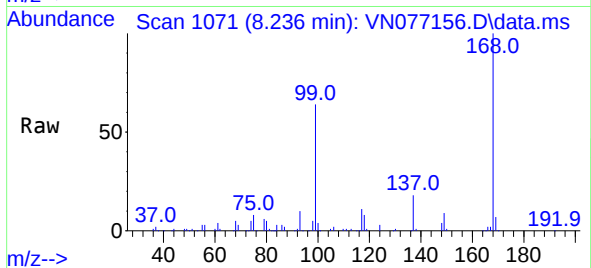




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.236 min Scan# 10  
Delta R.T. 0.005 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

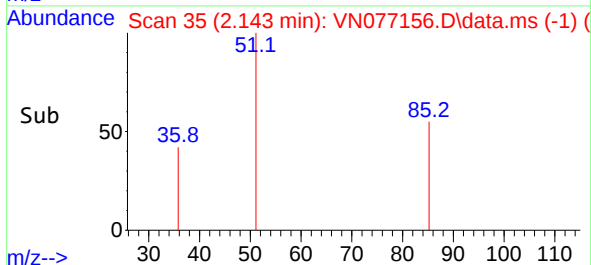
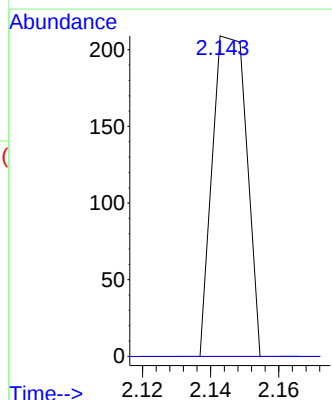
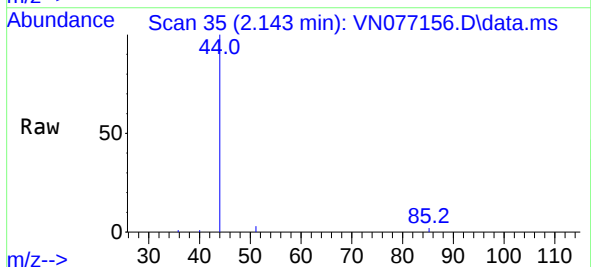
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1R

Tgt Ion:168 Resp: 364363  
Ion Ratio Lower Upper  
168 100  
99 64.0 53.9 80.9

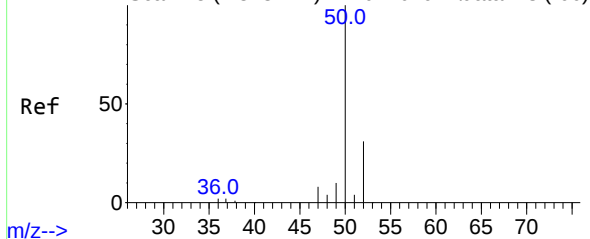


#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 2.143 min Scan# 35  
Delta R.T. 0.006 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion: 85 Resp: 146  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.4 49.2#



Abundance Scan 75 (2.378 min): VN077029.D\data.ms (-66)



#3

Chloromethane

Concen: 0.267 ug/l

RT: 2.366 min Scan# 71

Delta R.T. -0.012 min

Lab File: VN077156.D

Acq: 23 Mar 2023 17:55

Instrument :

MSVOA\_N

ClientSampleId :

MW-1R

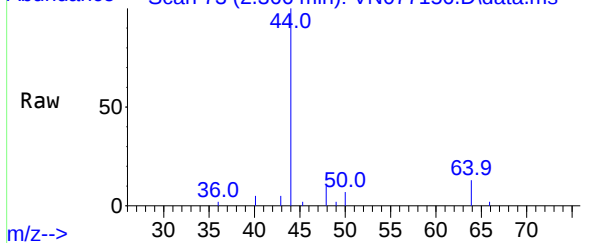
Tgt Ion: 50 Resp: 979

Ion Ratio Lower Upper

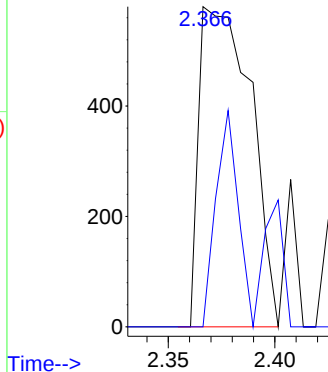
50 100

52 0.0 25.1 37.7#

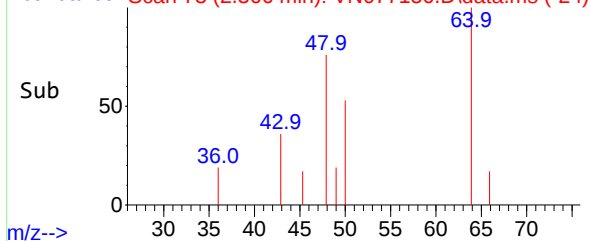
Abundance Scan 73 (2.366 min): VN077156.D\data.ms



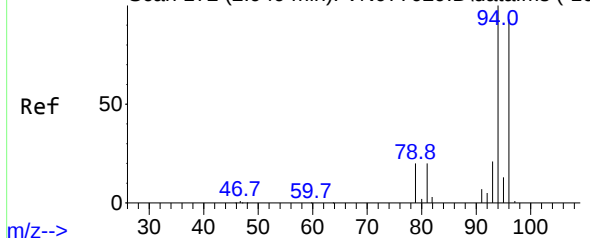
Abundance



Abundance Scan 73 (2.366 min): VN077156.D\data.ms (-24)



Abundance Scan 172 (2.949 min): VN077029.D\data.ms (-16)



#5

Bromomethane

Concen: 0.247 ug/l

RT: 2.972 min Scan# 176

Delta R.T. 0.023 min

Lab File: VN077156.D

Acq: 23 Mar 2023 17:55

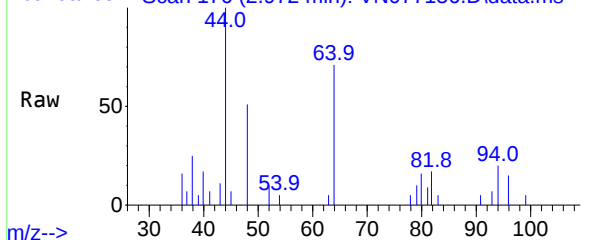
Tgt Ion: 94 Resp: 660

Ion Ratio Lower Upper

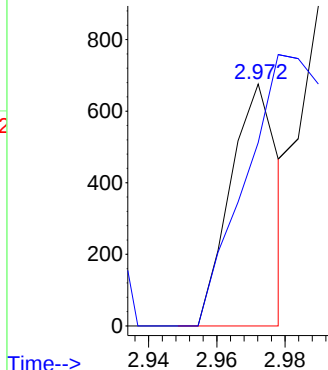
94 100

96 75.7 74.1 111.1

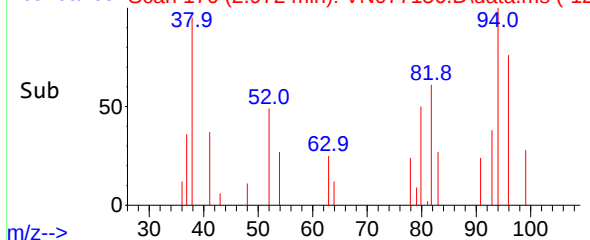
Abundance Scan 176 (2.972 min): VN077156.D\data.ms

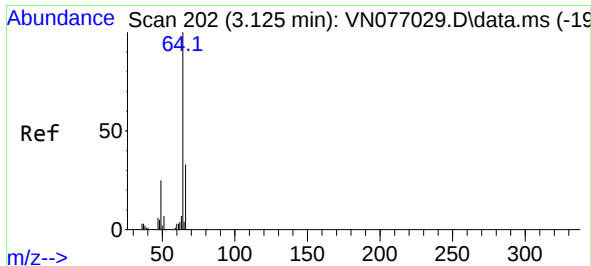


Abundance



Abundance Scan 176 (2.972 min): VN077156.D\data.ms (-12)

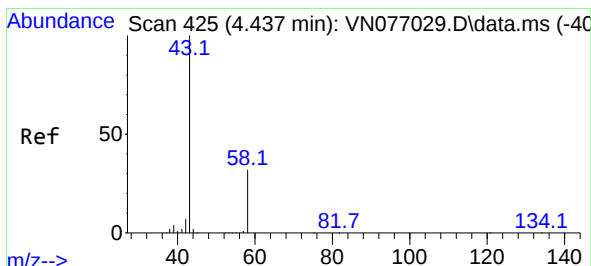
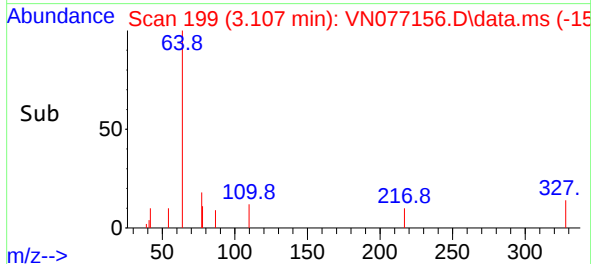
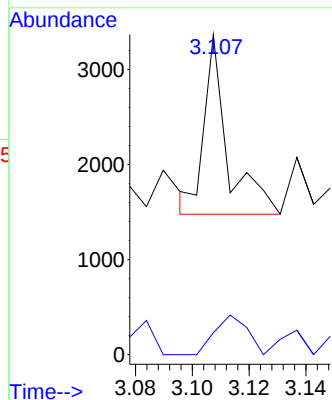
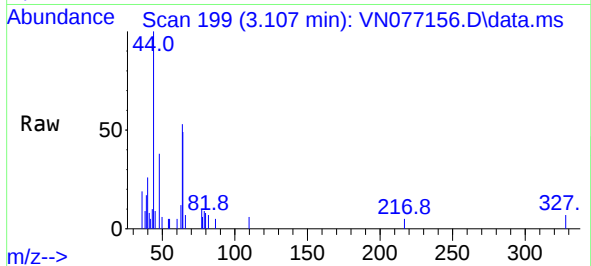




#6  
Chloroethane  
Concen: 0.422 ug/l  
RT: 3.107 min Scan# 199  
Delta R.T. -0.018 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

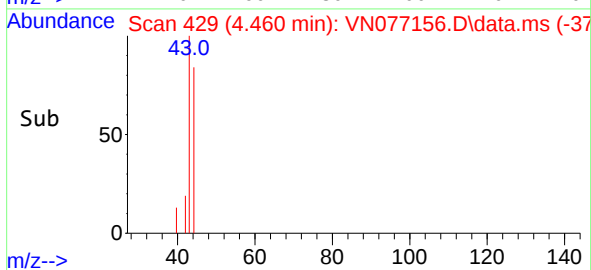
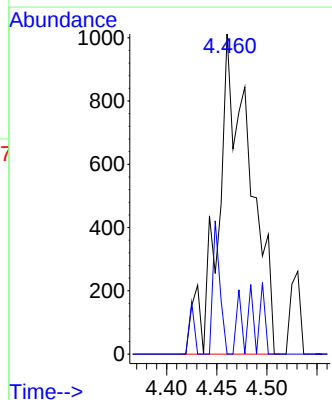
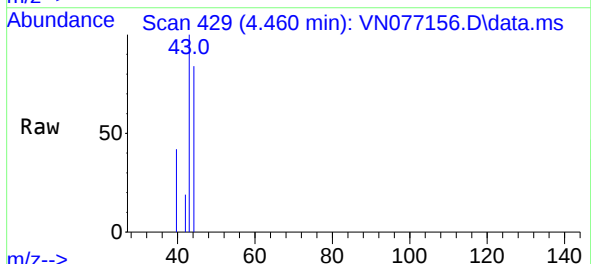
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1R

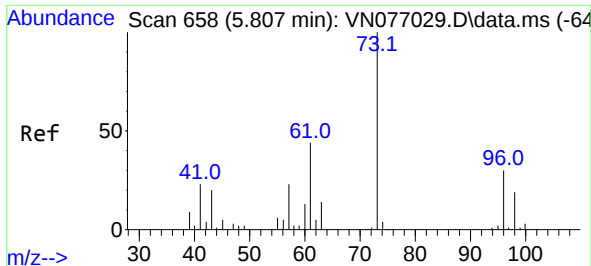
Tgt Ion: 64 Resp: 1059  
Ion Ratio Lower Upper  
64 100  
66 12.2 26.3 39.5#



#16  
Acetone  
Concen: 0.883 ug/l  
RT: 4.460 min Scan# 429  
Delta R.T. 0.023 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion: 43 Resp: 2290  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.4 38.0#

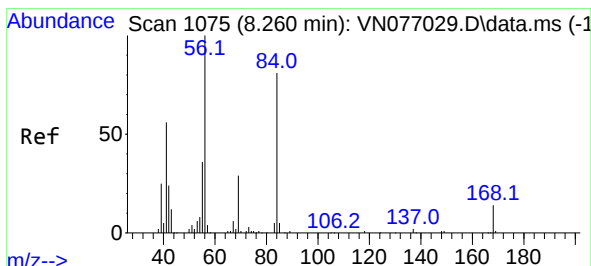
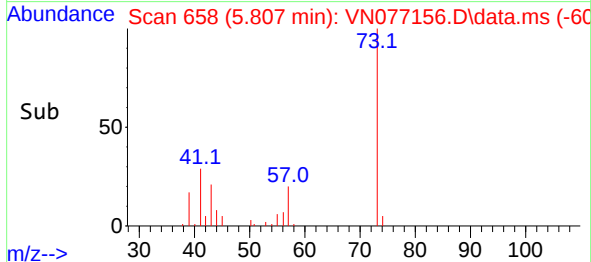
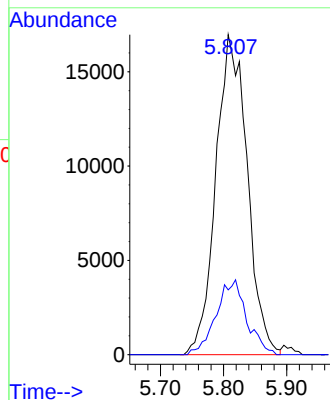
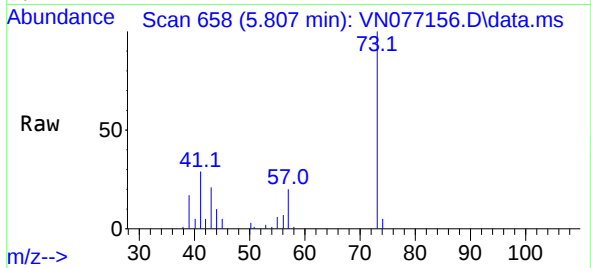




#19  
Methyl tert-butyl Ether  
Concen: 3.686 ug/l  
RT: 5.807 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

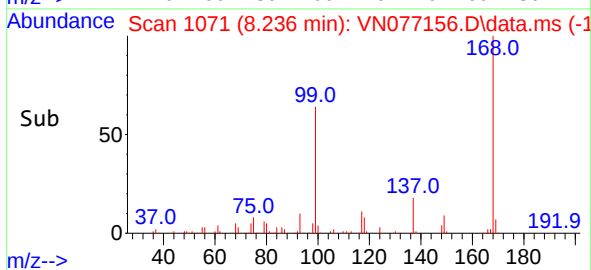
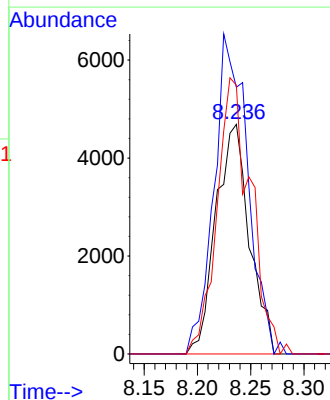
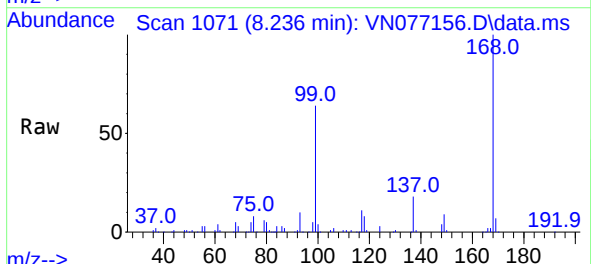
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1R

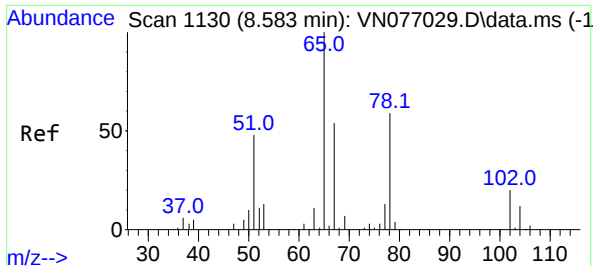
Tgt Ion: 73 Resp: 58528  
Ion Ratio Lower Upper  
73 100  
57 20.3 18.7 28.1



#31  
Cyclohexane  
Concen: 1.078 ug/l  
RT: 8.236 min Scan# 1071  
Delta R.T. -0.024 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion: 56 Resp: 10263  
Ion Ratio Lower Upper  
56 100  
69 116.1 22.8 34.2#  
84 117.1 64.7 97.1#

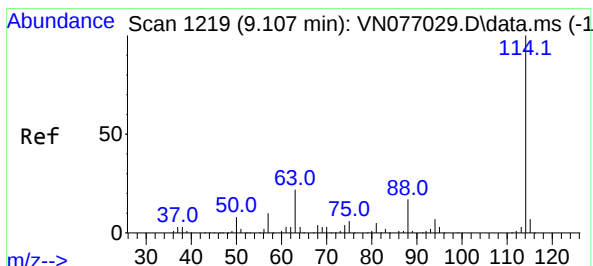
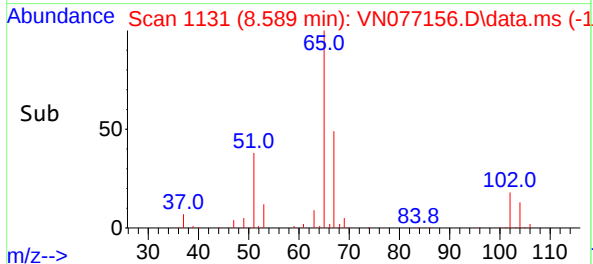
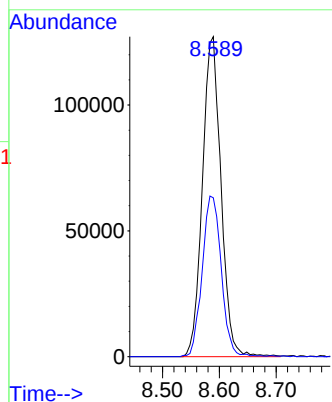
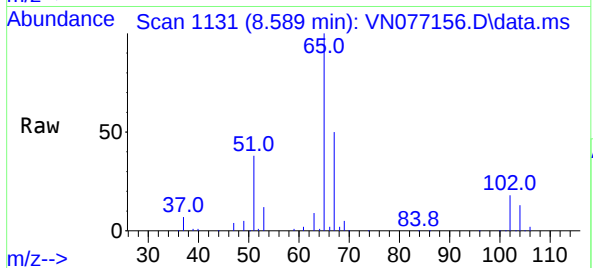




#33  
1,2-Dichloroethane-d4  
Concen: 49.531 ug/l  
RT: 8.589 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

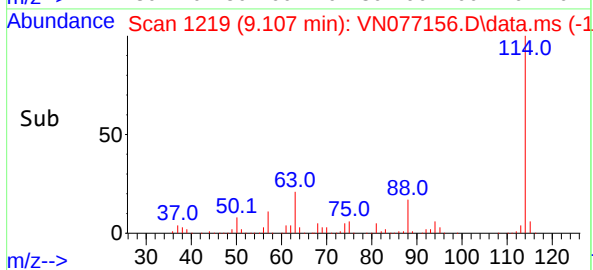
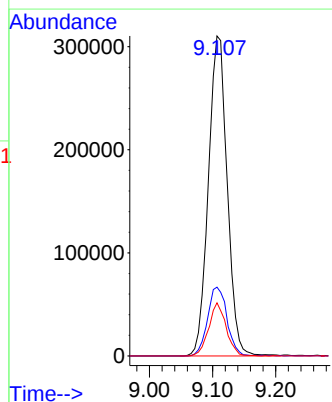
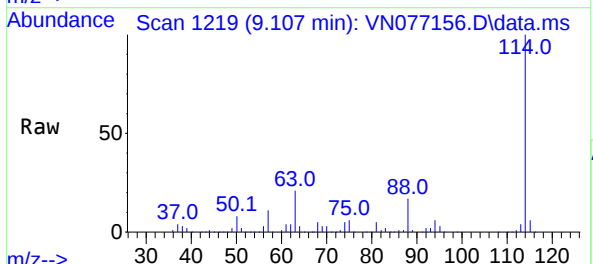
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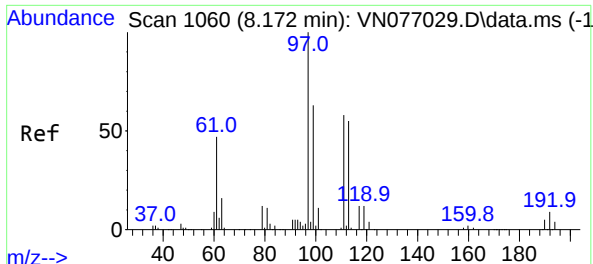
Tgt Ion: 65 Resp: 288272  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 105.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.107 min Scan# 1219  
Delta R.T. 0.000 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion: 114 Resp: 642964  
Ion Ratio Lower Upper  
114 100  
63 21.5 0.0 44.6  
88 16.6 0.0 33.8





#35

Dibromofluoromethane

Concen: 47.267 ug/l

RT: 8.178 min Scan# 1060

Delta R.T. 0.006 min

Lab File: VN077156.D

Acq: 23 Mar 2023 17:55

Instrument :

MSVOA\_N

ClientSampleId :

MW-1R

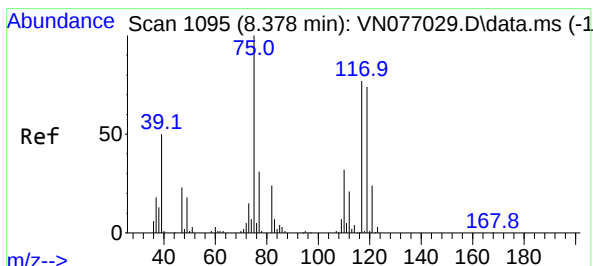
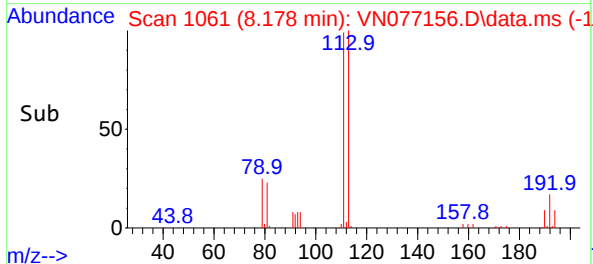
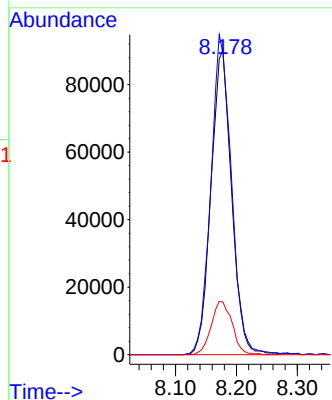
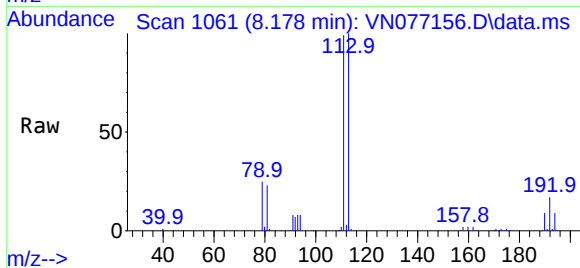
Tgt Ion:113 Resp: 212832

Ion Ratio Lower Upper

113 100

111 104.4 82.2 123.2

192 17.7 13.0 19.6



#36

1,1-Dichloropropene

Concen: 4.857 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN077156.D

Acq: 23 Mar 2023 17:55

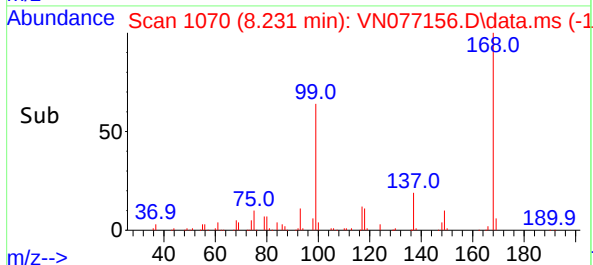
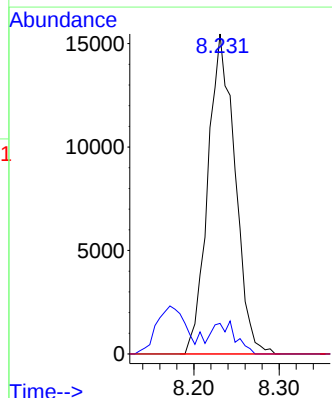
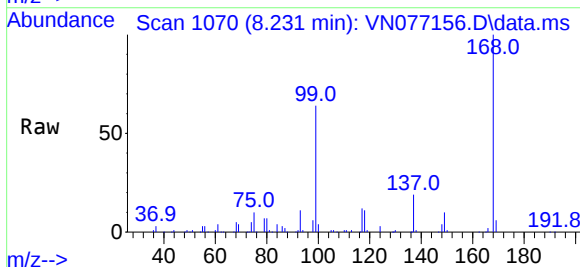
Tgt Ion: 75 Resp: 34157

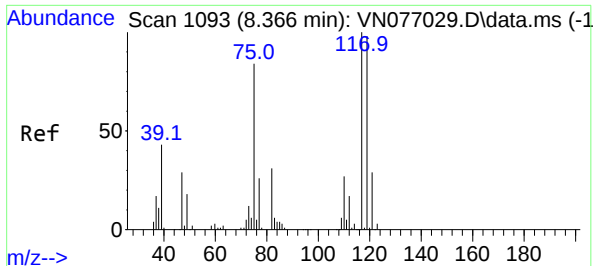
Ion Ratio Lower Upper

75 100

110 8.7 15.9 47.7#

77 0.0 24.3 36.5#

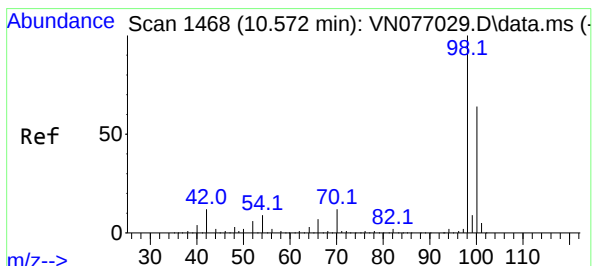
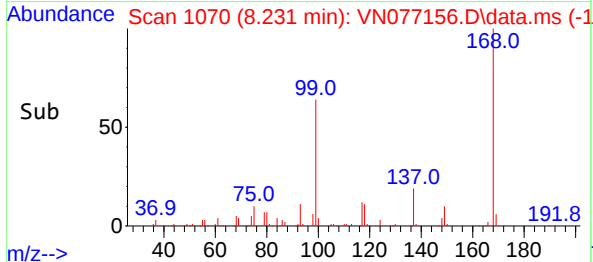
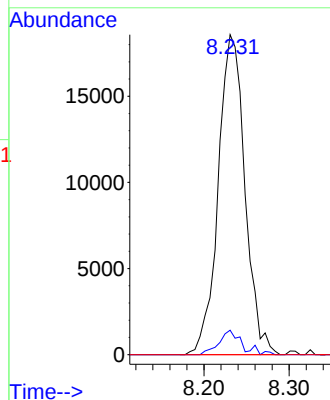
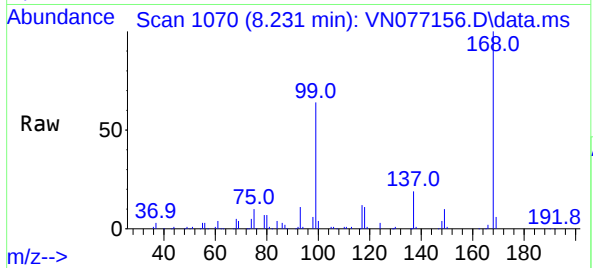




#38  
Carbon Tetrachloride  
Concen: 5.909 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.135 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

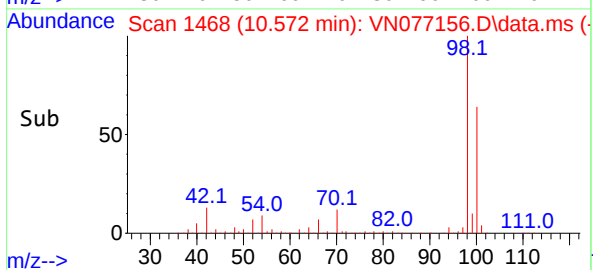
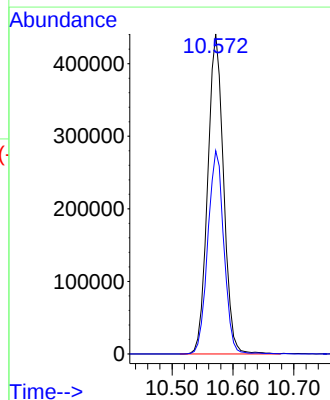
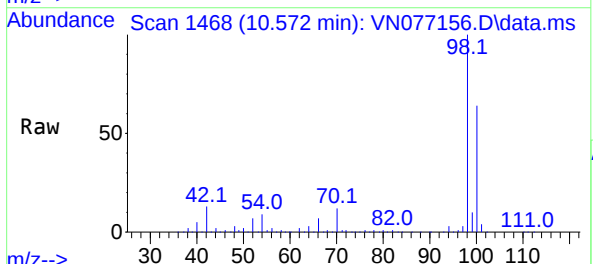
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1R

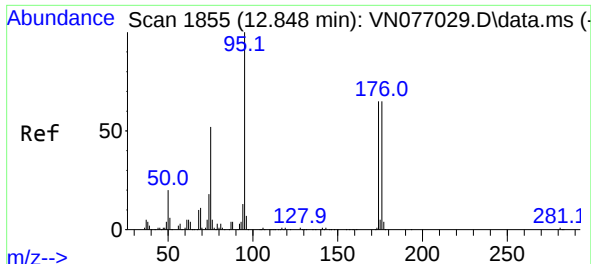
Tgt Ion:117 Resp: 40478  
Ion Ratio Lower Upper  
117 100  
119 7.7 78.2 117.2#  
121 0.0 23.2 34.8#



#50  
Toluene-d8  
Concen: 49.598 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion: 98 Resp: 797762  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.6 77.4



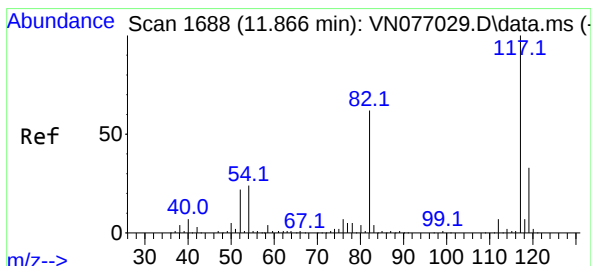
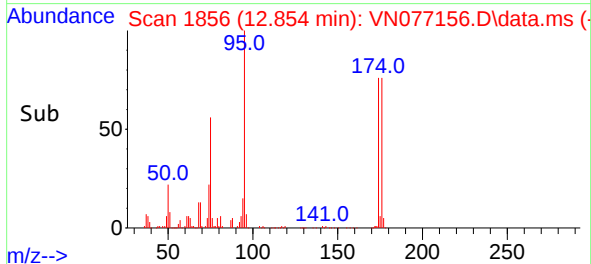
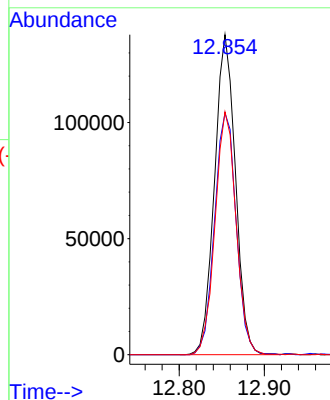
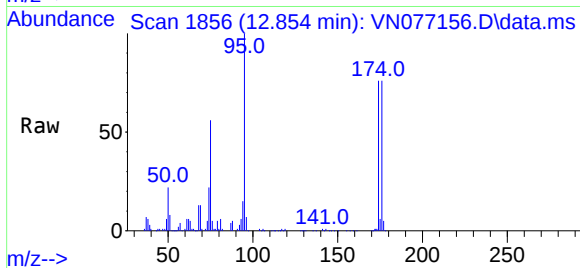


#62  
4-Bromofluorobenzene  
Concen: 41.356 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1R

Tgt Ion: 95 Resp: 235056

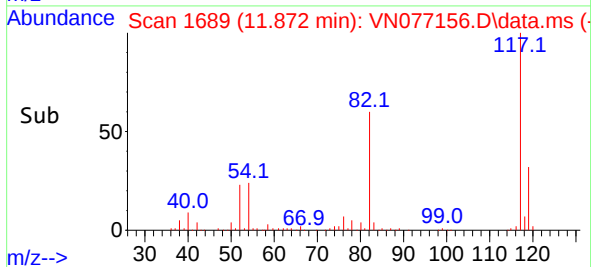
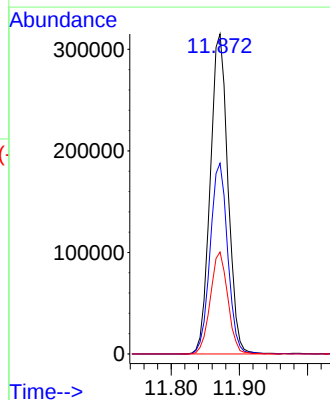
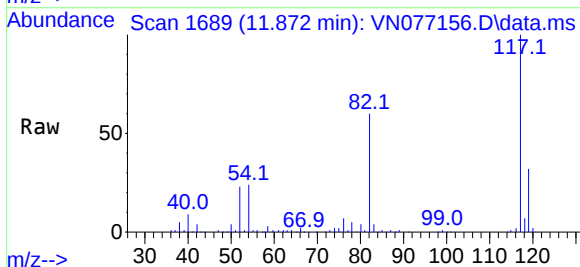
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 77.9  | 0.0   | 136.6 |
| 176 | 76.4  | 0.0   | 130.0 |

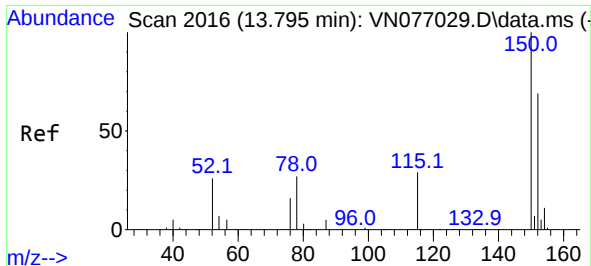


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 1689  
Delta R.T. 0.006 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion: 117 Resp: 568657

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 59.6  | 49.4  | 74.0  |
| 119 | 31.8  | 26.5  | 39.7  |

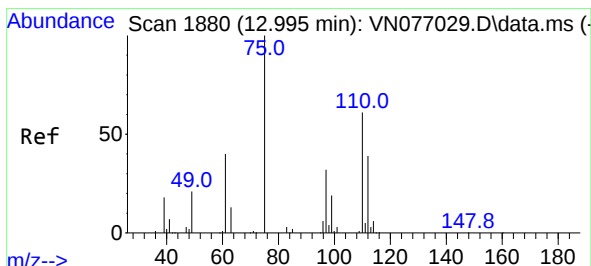
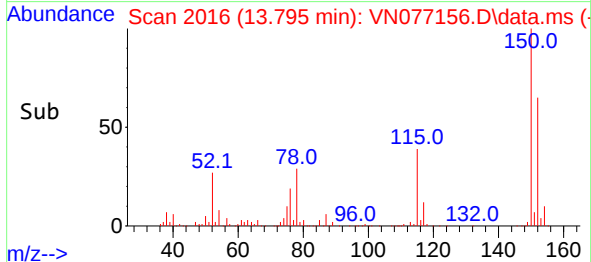
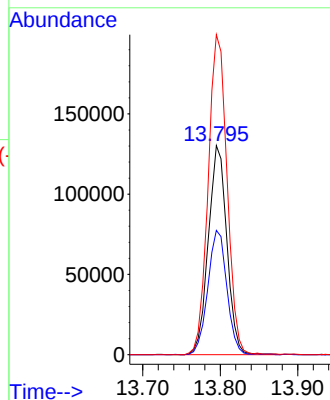
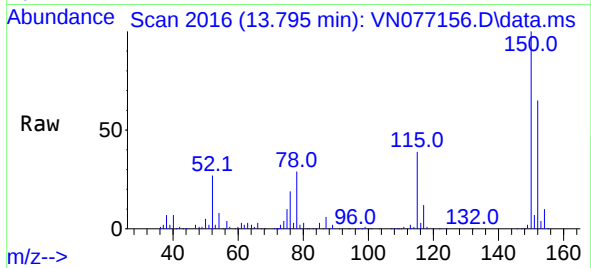




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.795 min Scan# 2016  
Delta R.T. -0.000 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

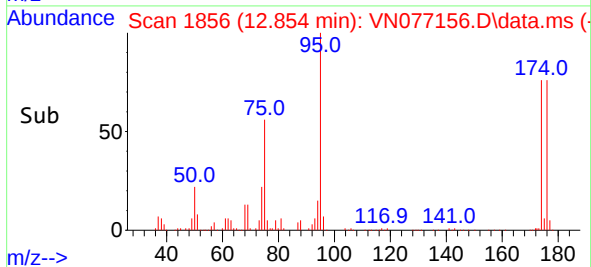
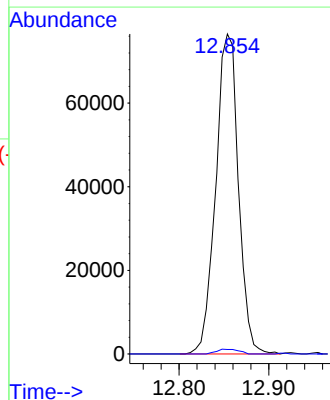
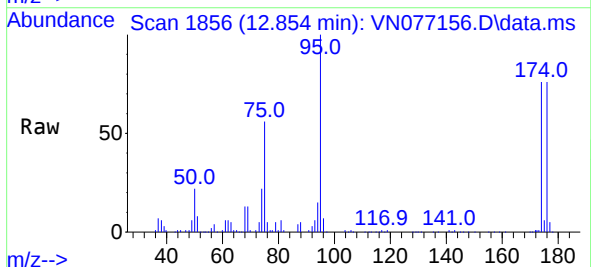
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1R

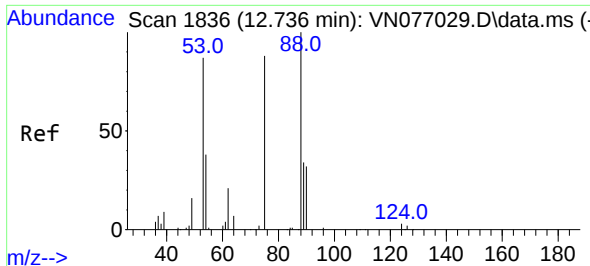
Tgt Ion:152 Resp: 216113  
Ion Ratio Lower Upper  
152 100  
115 60.9 31.9 95.7  
150 156.0 0.0 348.0



#76  
1,2,3-Trichloropropane  
Concen: 24.032 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. -0.141 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion: 75 Resp: 134343  
Ion Ratio Lower Upper  
75 100  
77 1.4 107.3 322.0#

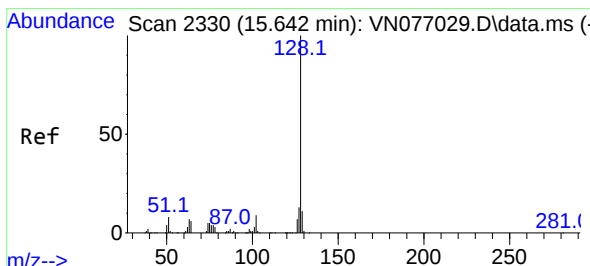
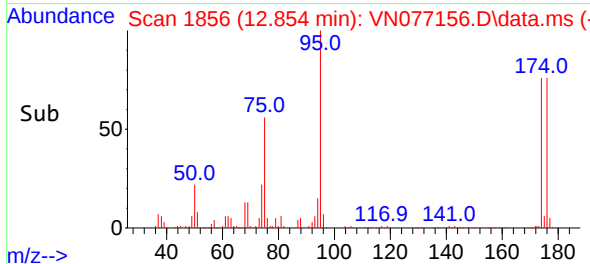
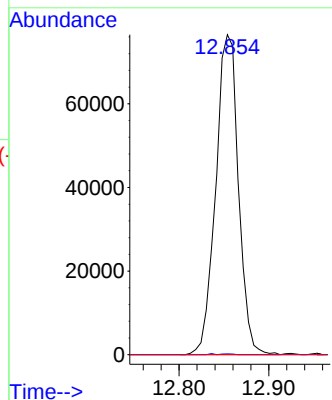
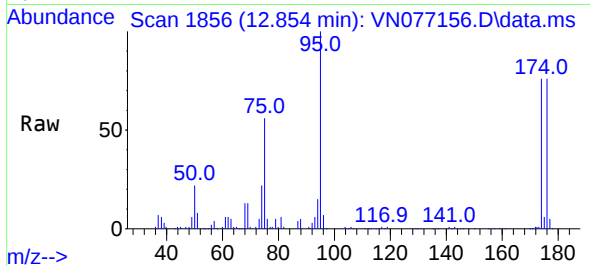




#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.151 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.118 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1R

Tgt Ion: 75 Resp: 134343  
Ion Ratio Lower Upper  
75 100  
53 0.1 80.8 121.2#  
89 0.0 34.2 51.4#



#95  
Naphthalene  
Concen: 1.955 ug/l  
RT: 15.642 min Scan# 2330  
Delta R.T. -0.000 min  
Lab File: VN077156.D  
Acq: 23 Mar 2023 17:55

Tgt Ion:128 Resp: 637  
Ion Ratio Lower Upper  
128 100  
127 8.9 10.0 15.0#  
129 11.1 8.6 13.0

