

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
 Data File : VN074690.D  
 Acq On : 01 Oct 2022 05:12  
 Operator : JC\MD  
 Sample : N4882-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-103

Quant Time: Oct 03 02:11:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 30 07:44:59 2022  
 Response via : Initial Calibration

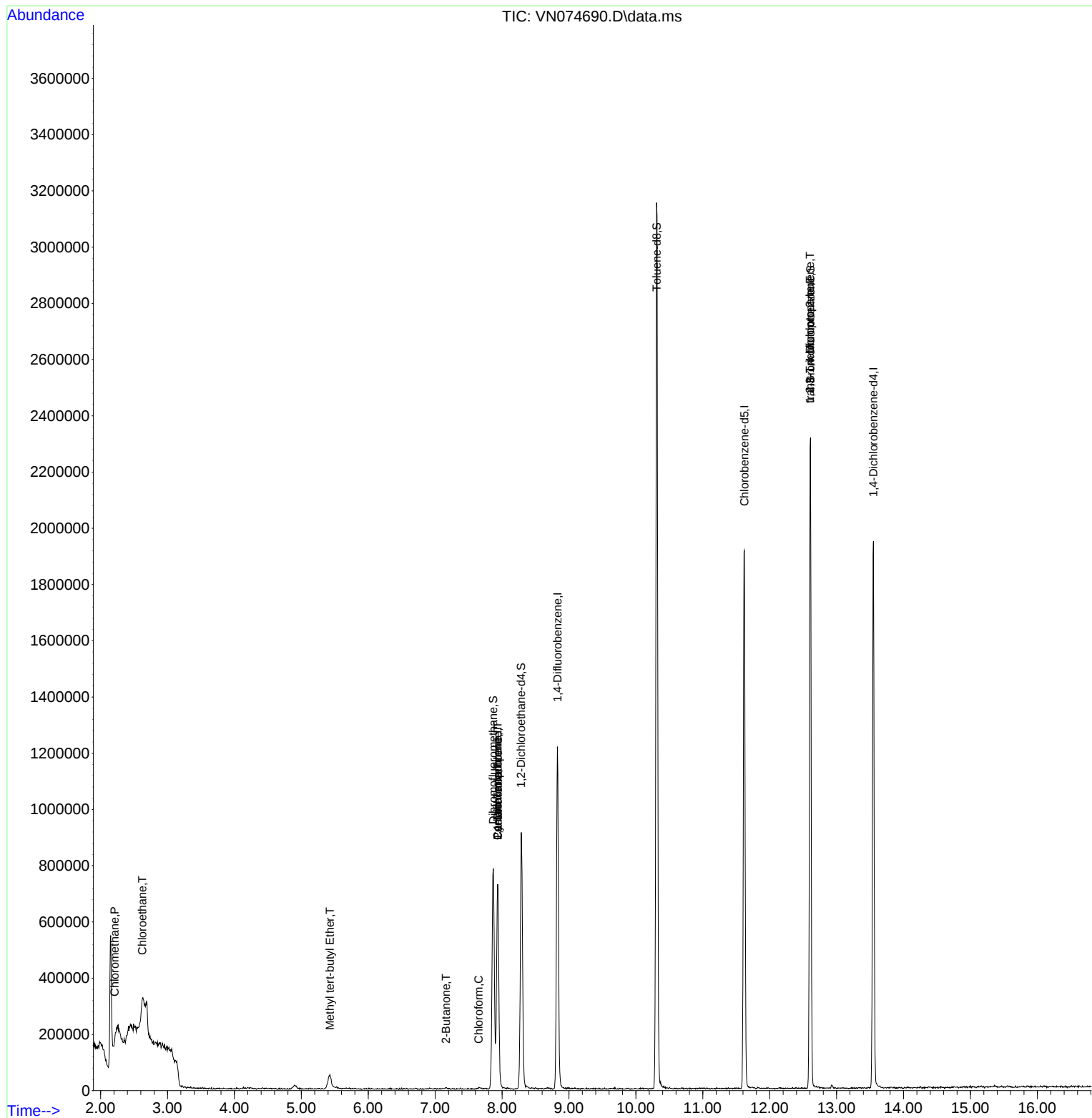
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.934  | 168   | 531132   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.828  | 114   | 1004770  | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.621 | 117   | 1031505  | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.551 | 152   | 475231   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.286  | 65    | 687847   | 51.674    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 103.340% |          |
| 35) Dibromofluoromethane      | 7.869  | 113   | 552188   | 51.922    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 103.840% |          |
| 50) Toluene-d8                | 10.310 | 98    | 2078712  | 46.468    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 92.940%  |          |
| 62) 4-Bromofluorobenzene      | 12.610 | 95    | 685514   | 48.328    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 96.660%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.210  | 50    | 4612     | 0.284     | ug/l #     | 55       |
| 6) Chloroethane               | 2.622  | 64    | 51663    | 2.846     | ug/l #     | 42       |
| 8) Diethyl Ether              | 3.751  | 74    | 55       | Below Cal | #          | 1        |
| 13) Acrolein                  | 3.881  | 56    | 85       | Below Cal | #          | 1        |
| 16) Acetone                   | 4.146  | 43    | 2385     | Below Cal | #          | 78       |
| 19) Methyl tert-butyl Ether   | 5.428  | 73    | 77228    | 2.040     | ug/l #     | 83       |
| 20) Methylene Chloride        | 4.904  | 84    | 9095     | Below Cal | #          | 81       |
| 25) 2-Butanone                | 7.163  | 43    | 5561     | 0.454     | ug/l       | 94       |
| 30) Chloroform                | 7.651  | 83    | 5450     | 0.266     | ug/l #     | 71       |
| 31) Cyclohexane               | 7.934  | 56    | 14489    | 0.670     | ug/l #     | 53       |
| 36) 1,1-Dichloropropene       | 7.934  | 75    | 48620    | 2.855     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.934  | 117   | 57312    | 3.673     | ug/l #     | 17       |
| 74) N-amyl acetate            | 12.263 | 43    | 346      | Below Cal | #          | 77       |
| 75) 1,1,2,2-Tetrachloroethane | 12.616 | 83    | 685      | Below Cal | #          | 1        |
| 76) 1,2,3-Trichloropropane    | 12.604 | 75    | 410563   | 38.069    | ug/l #     | 1        |
| 77) Bromobenzene              | 12.733 | 156   | 53       | Below Cal | #          | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.604 | 75    | 410563   | 72.195    | ug/l #     | 10       |
| -----                         |        |       |          |           |            |          |

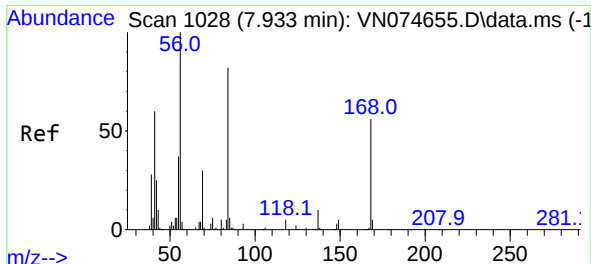
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
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Sample : N4882-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
MW-103

Quant Time: Oct 03 02:11:50 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 30 07:44:59 2022  
Response via : Initial Calibration

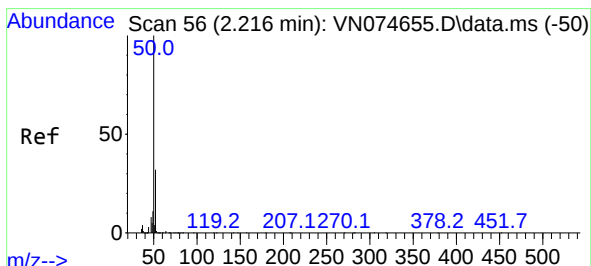
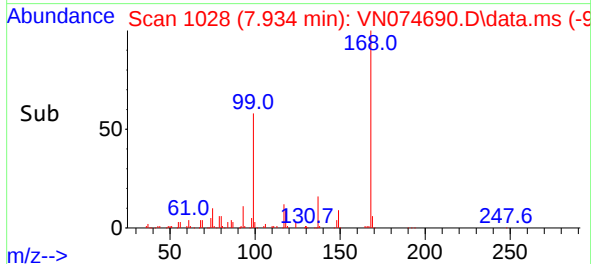
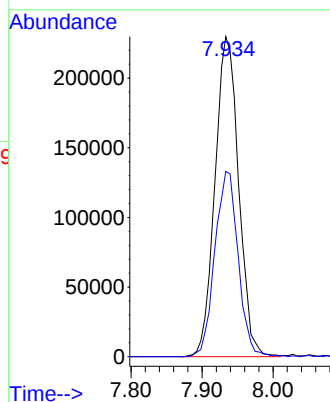
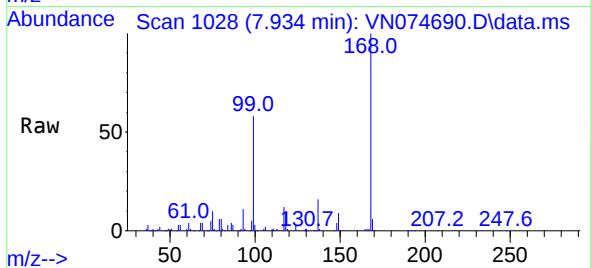




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.934 min Scan# 1028  
Delta R.T. 0.001 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

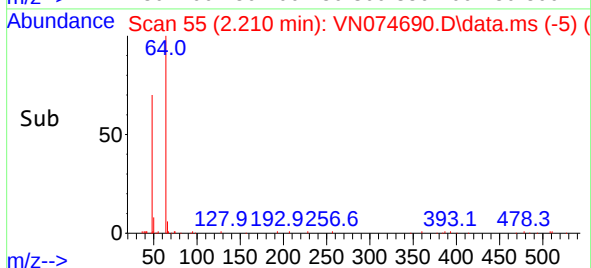
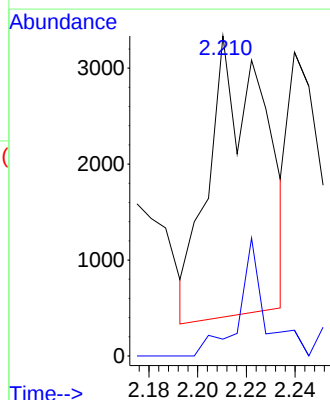
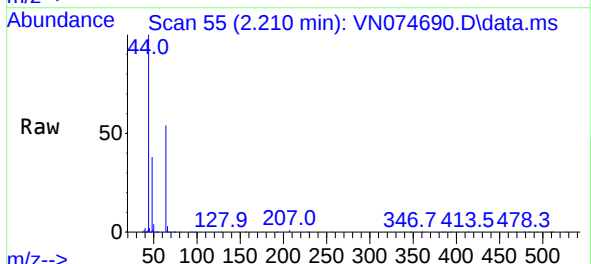
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-103

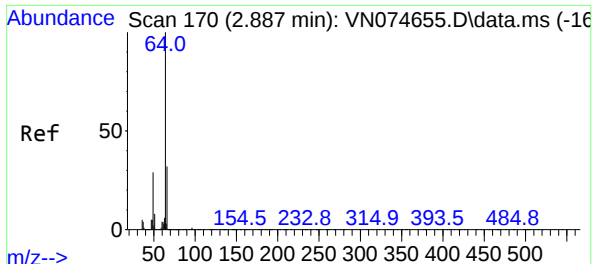
Tgt Ion:168 Resp: 531132  
Ion Ratio Lower Upper  
168 100  
99 57.9 42.3 63.5



#3  
Chloromethane  
Concen: 0.284 ug/l  
RT: 2.210 min Scan# 55  
Delta R.T. -0.006 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 50 Resp: 4612  
Ion Ratio Lower Upper  
50 100  
52 6.9 25.7 38.5#

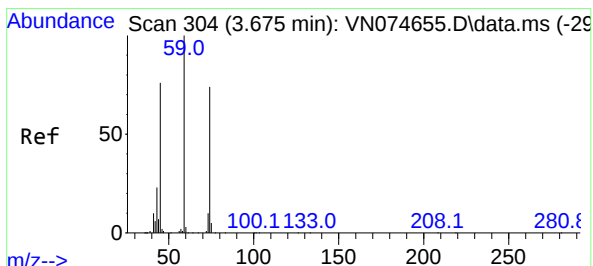
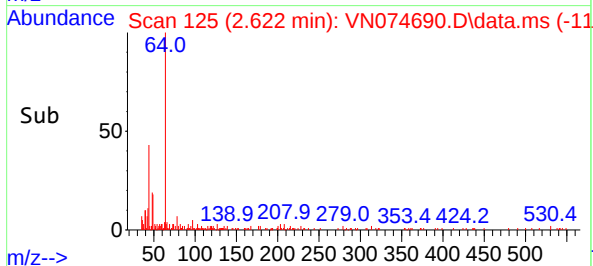
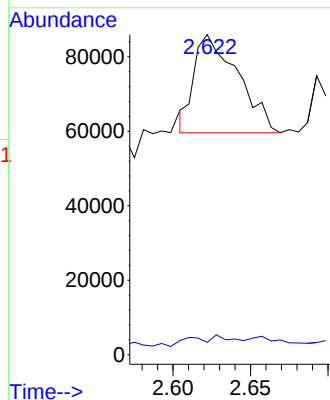
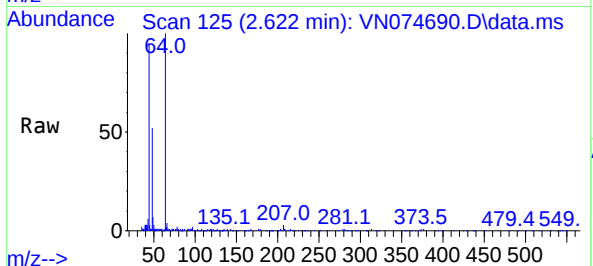




#6  
Chloroethane  
Concen: 2.846 ug/l  
RT: 2.622 min Scan# 11  
Delta R.T. -0.265 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

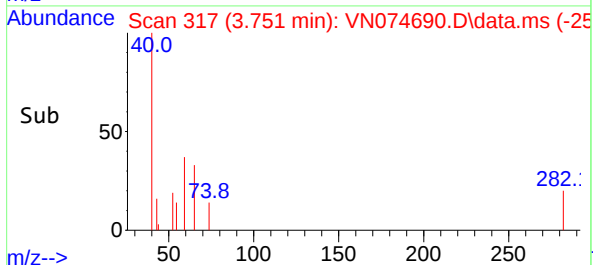
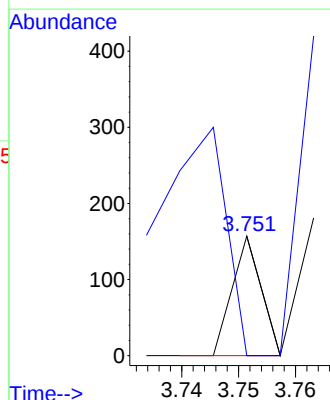
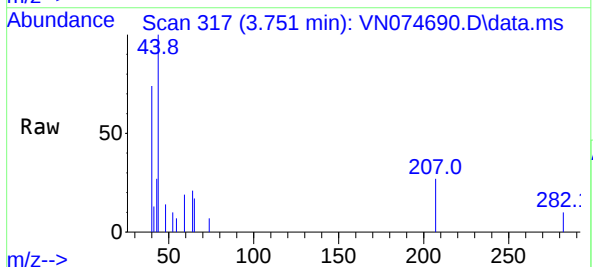
Instrument :  
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ClientSampleId :  
MW-103

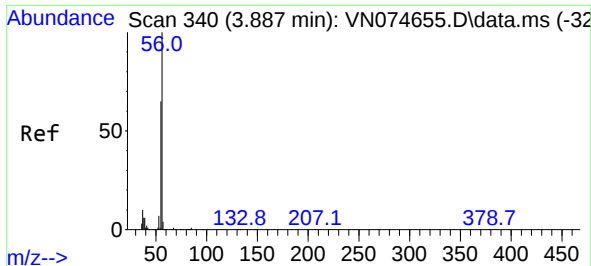
Tgt Ion: 64 Resp: 51663  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#



#8  
Diethyl Ether  
Concen: Below Cal  
RT: 3.751 min Scan# 317  
Delta R.T. 0.076 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 74 Resp: 55  
Ion Ratio Lower Upper  
74 100  
45 269.1 42.9 128.5#

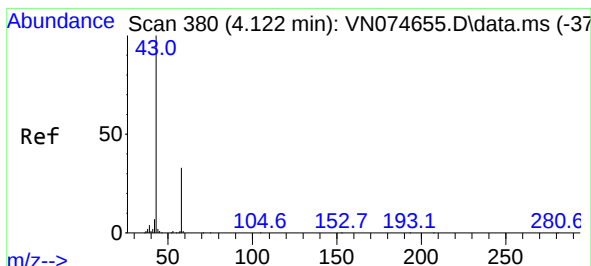
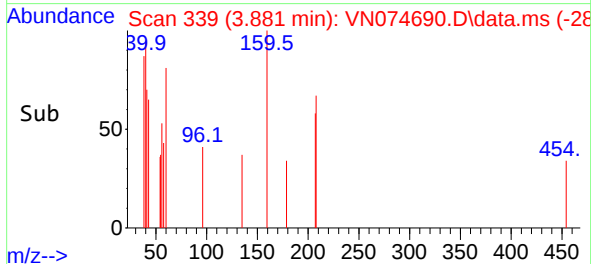
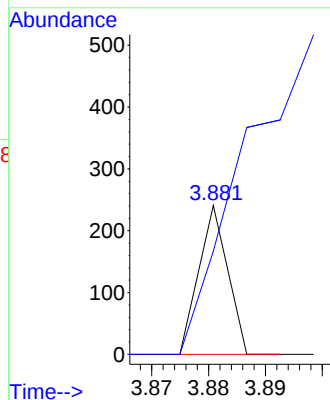
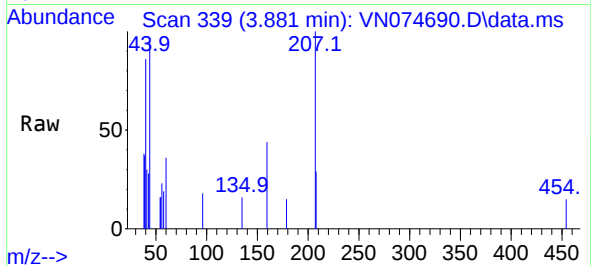




#13  
Acrolein  
Concen: Below Cal  
RT: 3.881 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

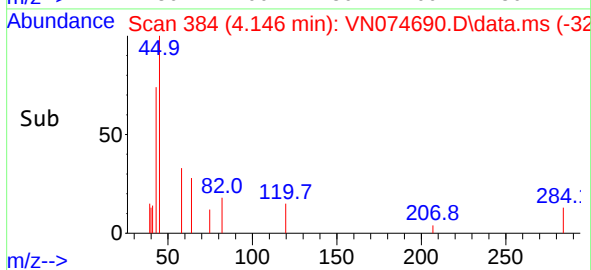
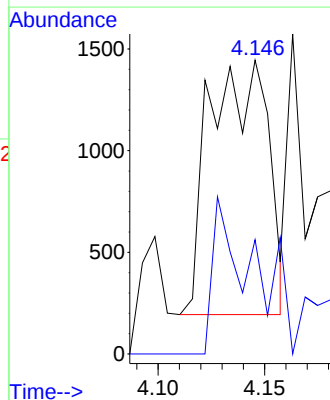
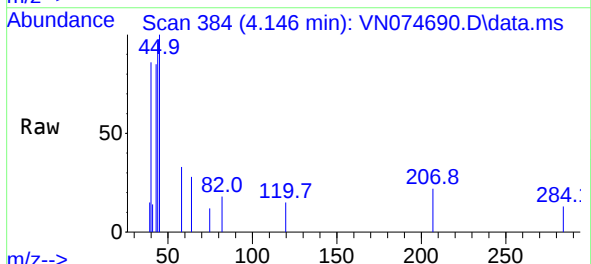
Instrument :  
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ClientSampleId :  
MW-103

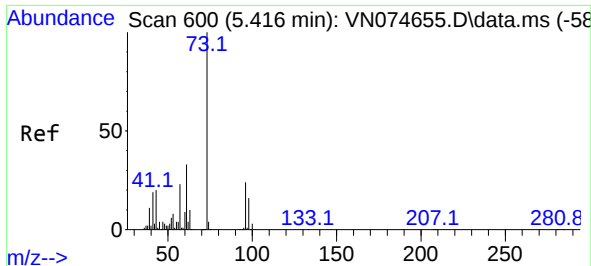
Tgt Ion: 56 Resp: 85  
Ion Ratio Lower Upper  
56 100  
55 594.1 54.8 82.2#



#16  
Acetone  
Concen: Below Cal  
RT: 4.146 min Scan# 384  
Delta R.T. 0.024 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 43 Resp: 2385  
Ion Ratio Lower Upper  
43 100  
58 44.9 26.0 39.0#

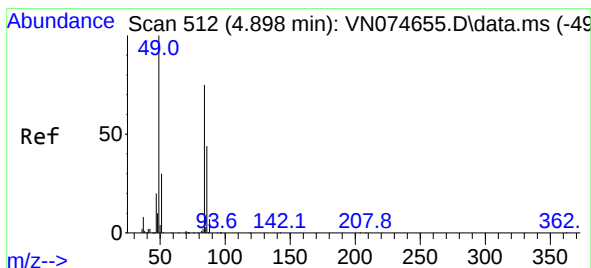
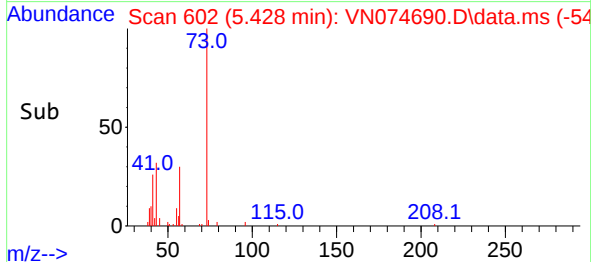
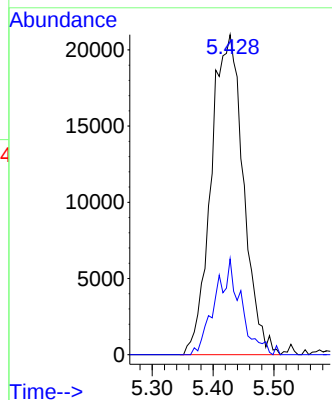
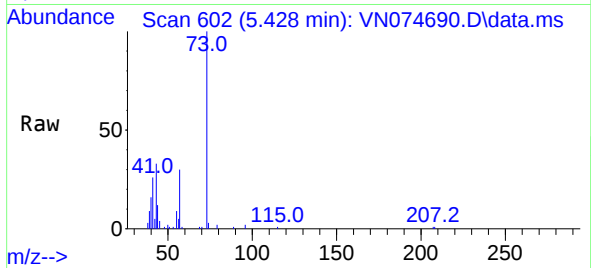




#19  
Methyl tert-butyl Ether  
Concen: 2.040 ug/l  
RT: 5.428 min Scan# 600  
Delta R.T. 0.012 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

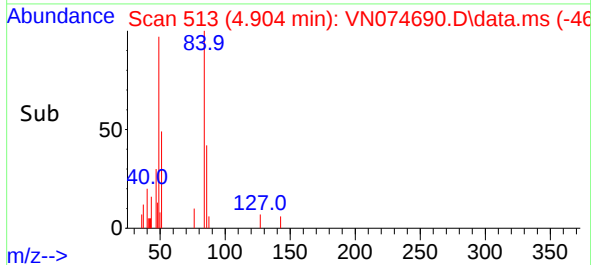
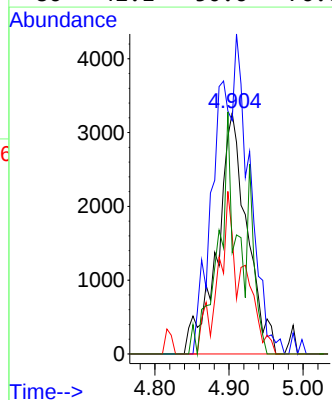
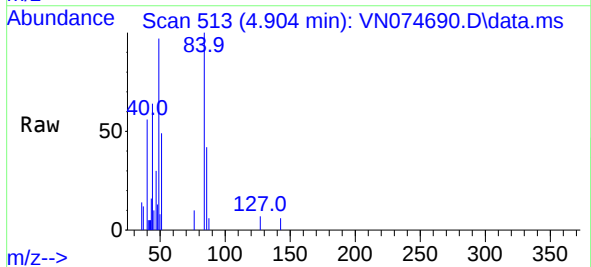
Instrument :  
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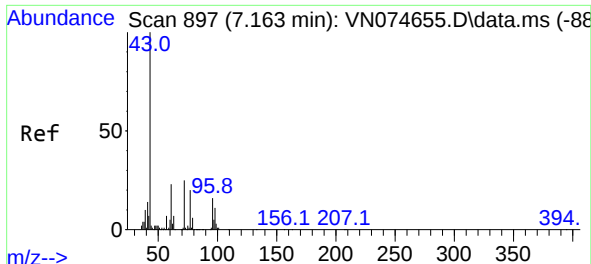
Tgt Ion: 73 Resp: 77228  
Ion Ratio Lower Upper  
73 100  
57 30.0 17.6 26.4#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.904 min Scan# 513  
Delta R.T. 0.006 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 84 Resp: 9095  
Ion Ratio Lower Upper  
84 100  
49 96.9 88.3 132.5  
51 49.4 28.2 42.2#  
86 42.1 50.6 76.0#

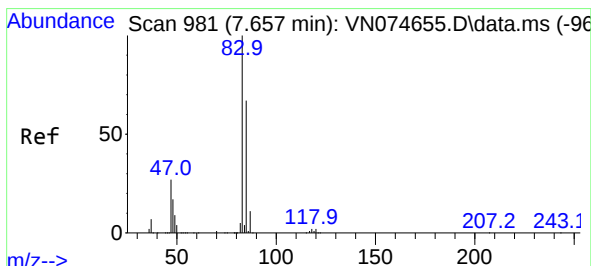
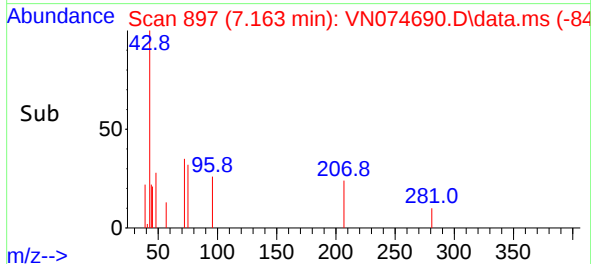
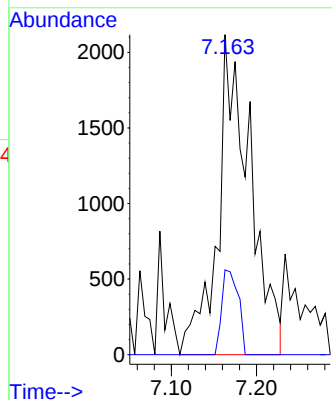
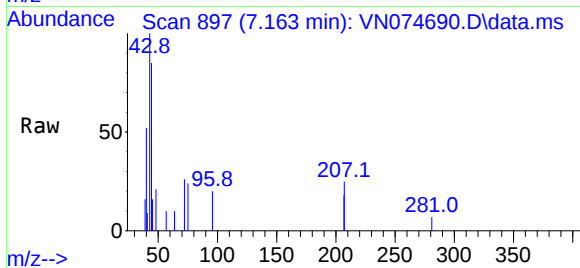




#25  
2-Butanone  
Concen: 0.454 ug/l  
RT: 7.163 min Scan# 897  
Delta R.T. -0.000 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

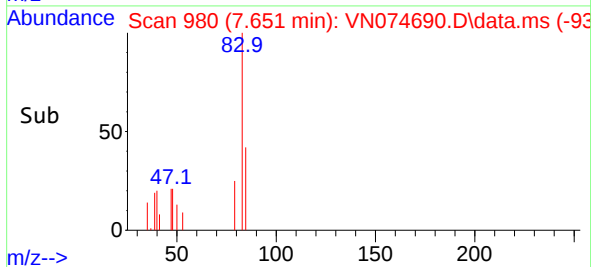
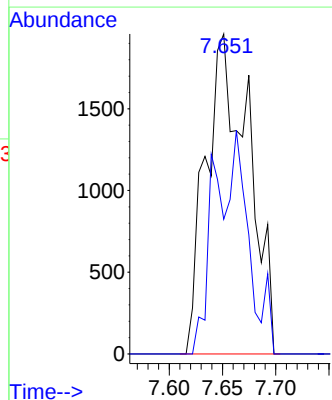
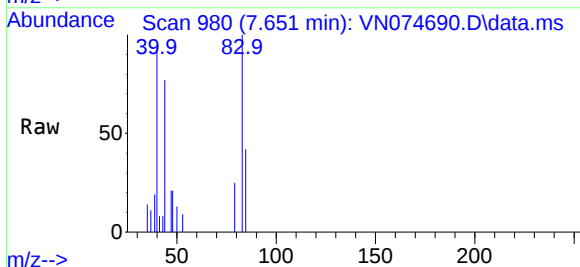
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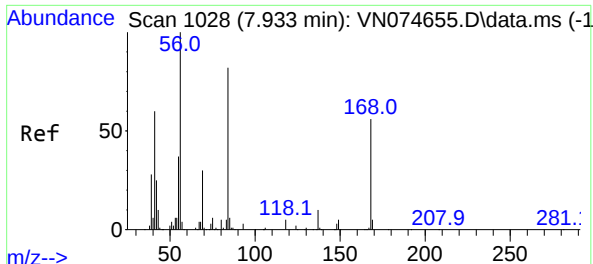
Tgt Ion: 43 Resp: 5561  
Ion Ratio Lower Upper  
43 100  
72 26.5 23.7 35.5



#30  
Chloroform  
Concen: 0.266 ug/l  
RT: 7.651 min Scan# 980  
Delta R.T. -0.006 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 83 Resp: 5450  
Ion Ratio Lower Upper  
83 100  
85 42.1 51.8 77.8#

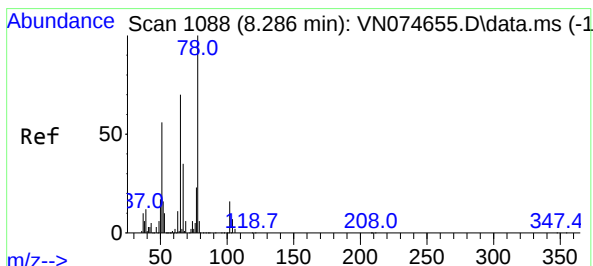
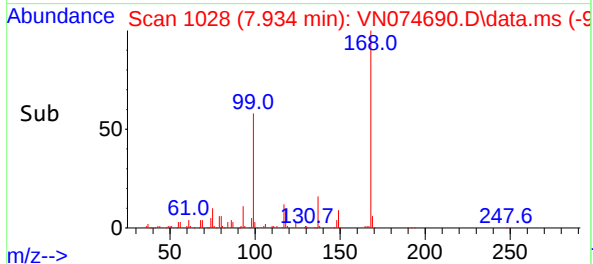
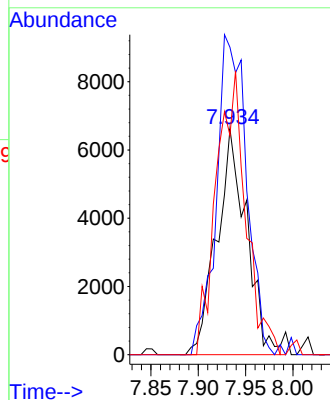
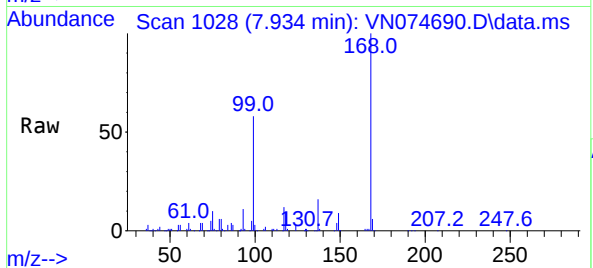




#31  
Cyclohexane  
Concen: 0.670 ug/l  
RT: 7.934 min Scan# 1028  
Delta R.T. 0.001 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

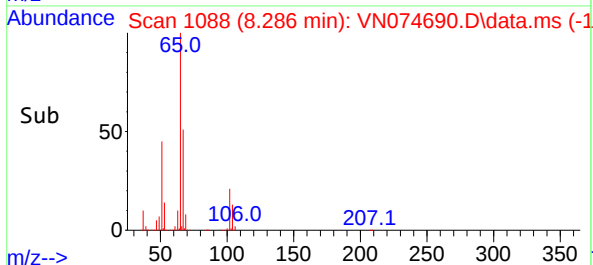
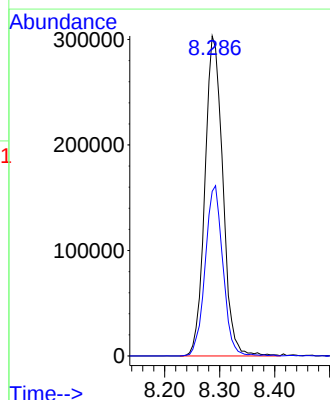
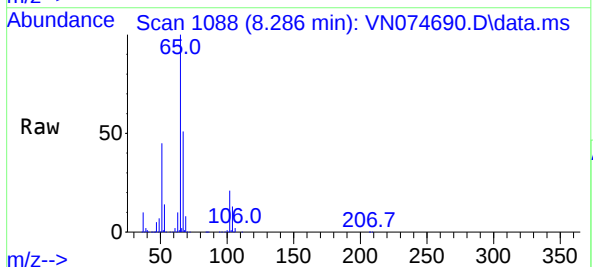
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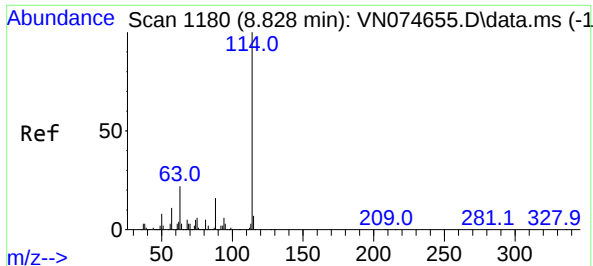
Tgt Ion: 56 Resp: 14489  
Ion Ratio Lower Upper  
56 100  
69 136.0 27.8 41.8#  
84 97.0 76.9 115.3



#33  
1,2-Dichloroethane-d4  
Concen: 51.674 ug/l  
RT: 8.286 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 65 Resp: 687847  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 104.8

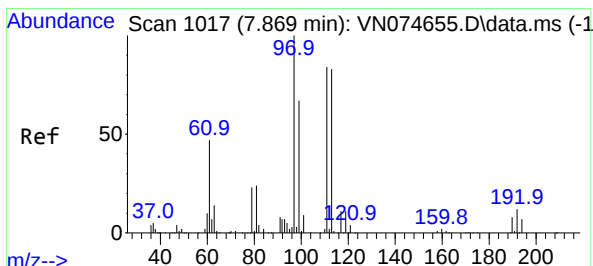
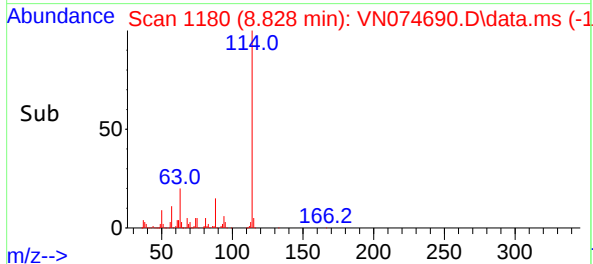
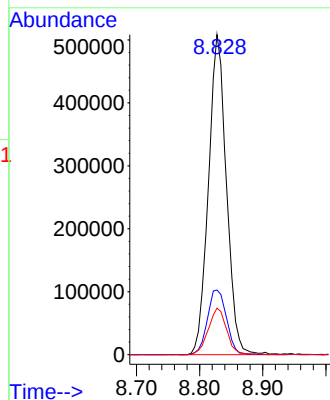
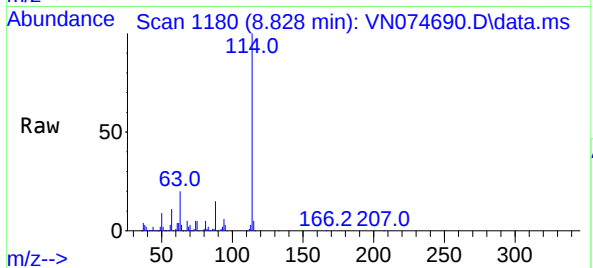




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.828 min Scan# 1180  
Delta R.T. -0.000 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

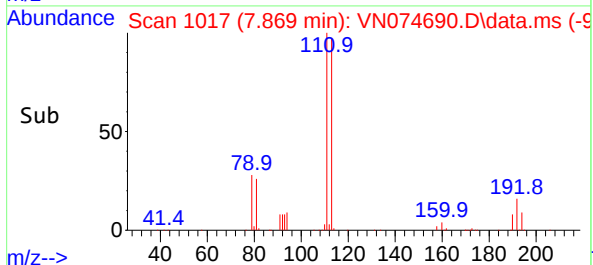
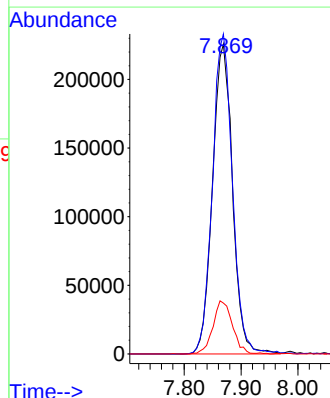
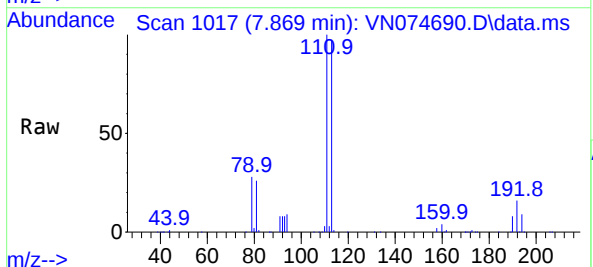
Instrument :  
MSVOA\_N  
ClientSampleId :  
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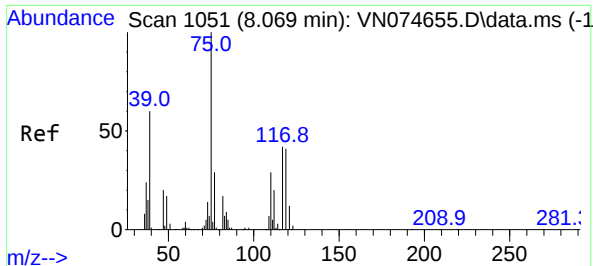
Tgt Ion:114 Resp: 1004770  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 40.0  
88 14.5 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 51.922 ug/l  
RT: 7.869 min Scan# 1017  
Delta R.T. -0.000 min  
Lab File: VN074690.D  
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Tgt Ion:113 Resp: 552188  
Ion Ratio Lower Upper  
113 100  
111 103.1 81.4 122.0  
192 16.6 17.0 25.6#

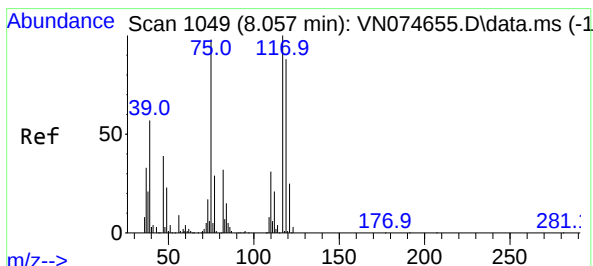
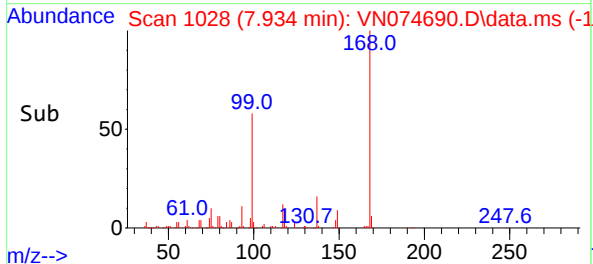
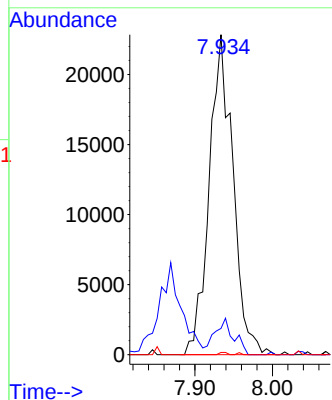
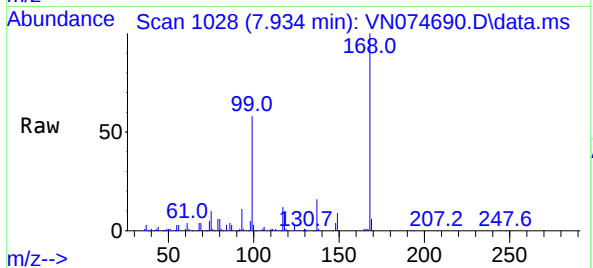




#36  
1,1-Dichloropropene  
Concen: 2.855 ug/l  
RT: 7.934 min Scan# 1028  
Delta R.T. -0.136 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

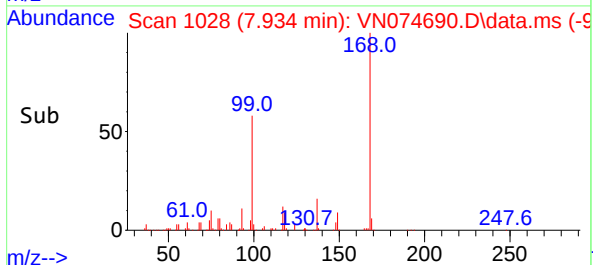
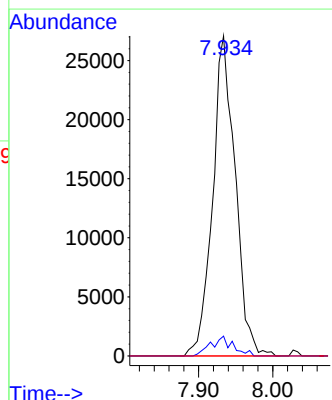
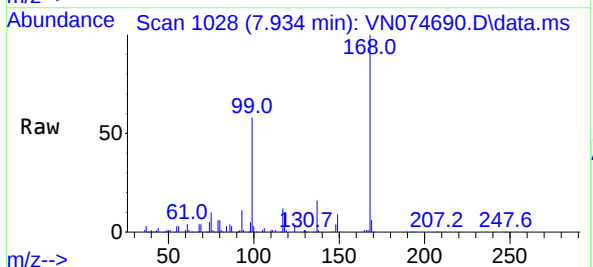
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-103

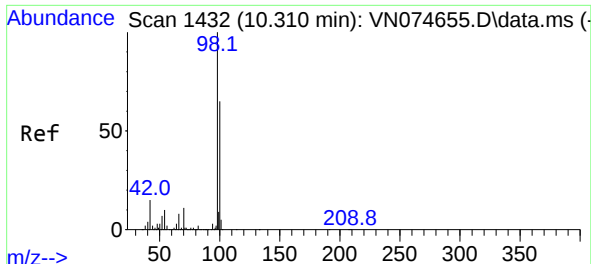
Tgt Ion: 75 Resp: 48620  
Ion Ratio Lower Upper  
75 100  
110 9.1 18.3 54.8#  
77 0.2 25.1 37.7#



#38  
Carbon Tetrachloride  
Concen: 3.673 ug/l  
RT: 7.934 min Scan# 1028  
Delta R.T. -0.123 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 117 Resp: 57312  
Ion Ratio Lower Upper  
117 100  
119 6.2 75.8 113.8#  
121 0.0 24.6 37.0#

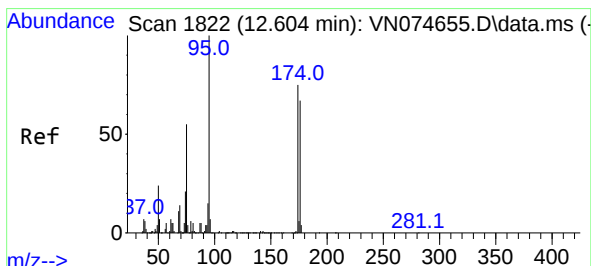
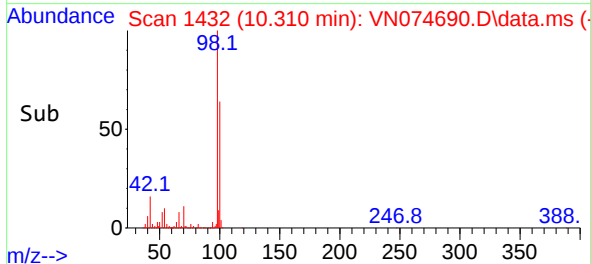
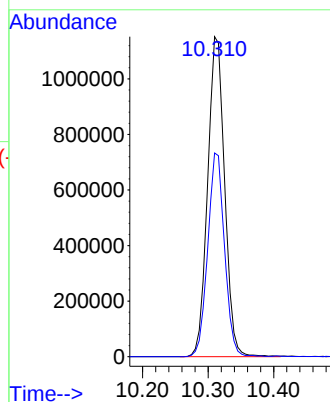
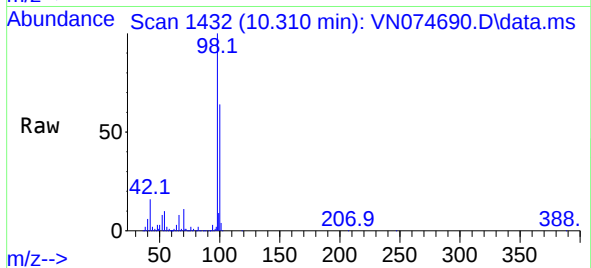




#50  
Toluene-d8  
Concen: 46.468 ug/l  
RT: 10.310 min Scan# 1432  
Delta R.T. -0.000 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

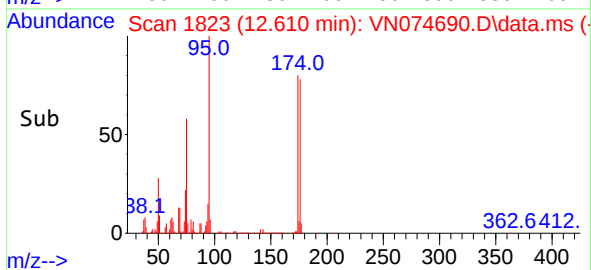
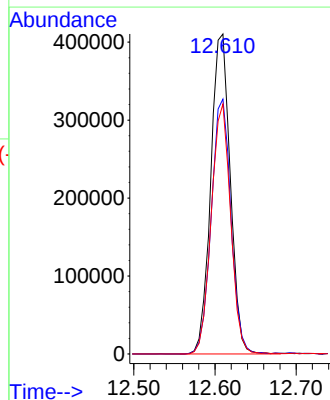
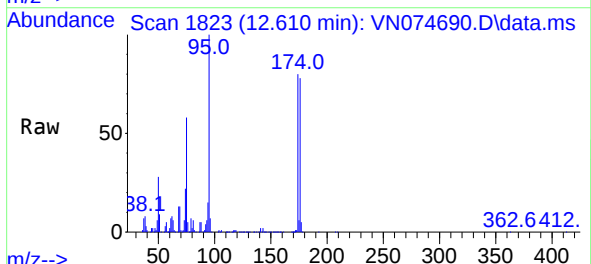
Instrument :  
MSVOA\_N  
ClientSampleId :  
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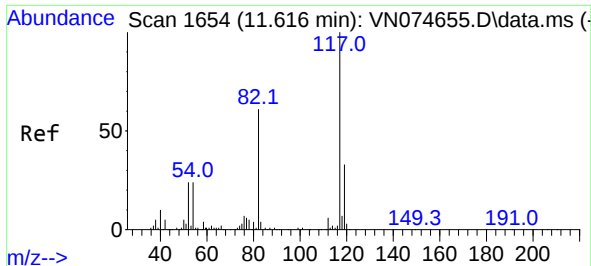
Tgt Ion: 98 Resp: 2078712  
Ion Ratio Lower Upper  
98 100  
100 62.8 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 48.328 ug/l  
RT: 12.610 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion: 95 Resp: 685514  
Ion Ratio Lower Upper  
95 100  
174 80.1 0.0 167.6  
176 77.4 0.0 163.4

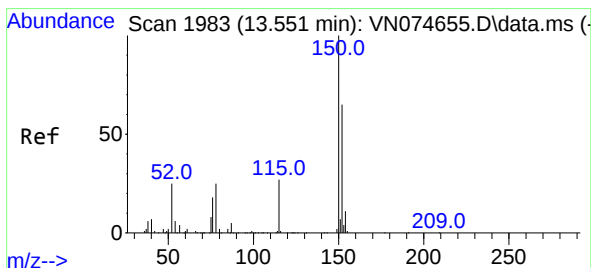
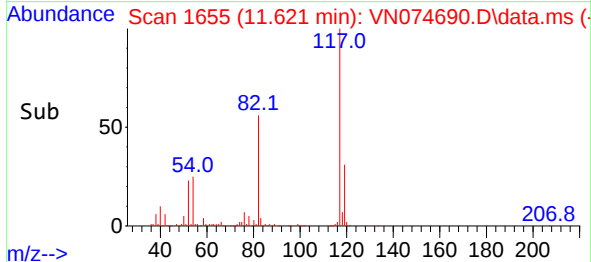
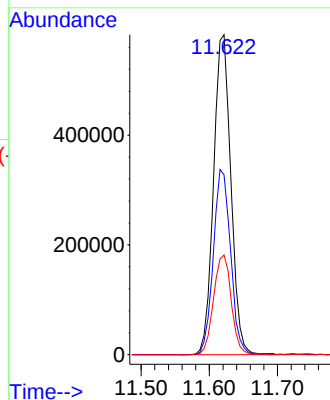
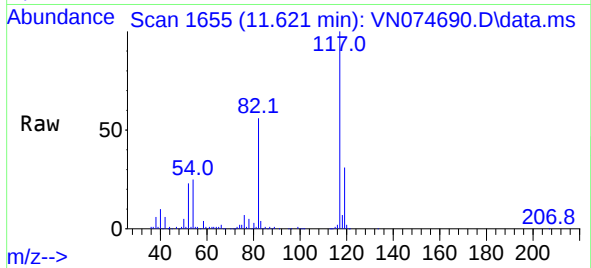




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.621 min Scan# 1170  
Delta R.T. 0.005 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

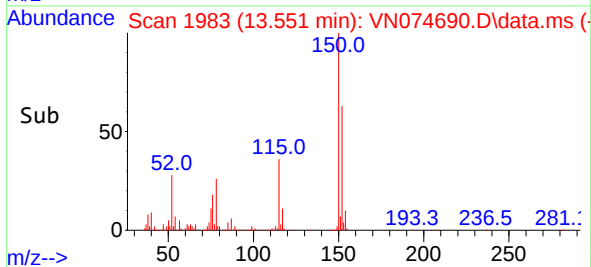
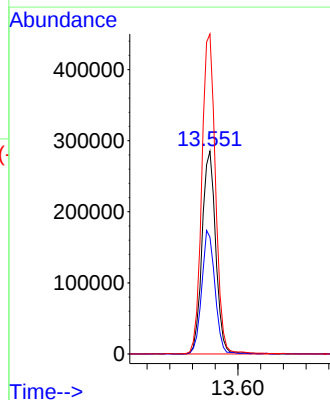
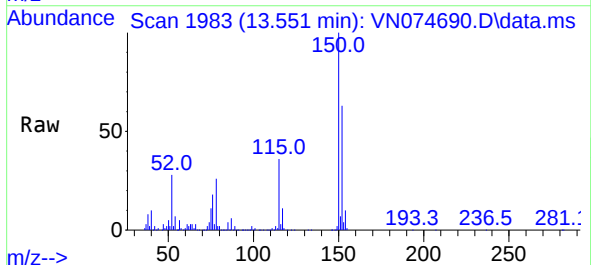
Instrument :  
MSVOA\_N  
ClientSampleId :  
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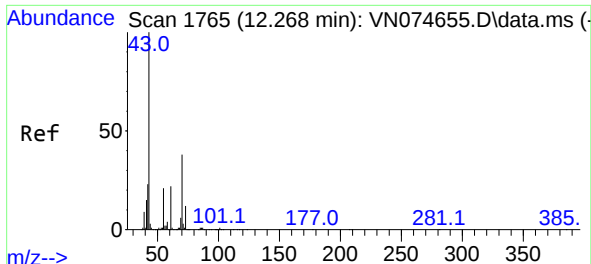
Tgt Ion:117 Resp: 1031505  
Ion Ratio Lower Upper  
117 100  
82 56.2 44.2 66.2  
119 31.1 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.551 min Scan# 1983  
Delta R.T. -0.000 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

Tgt Ion:152 Resp: 475231  
Ion Ratio Lower Upper  
152 100  
115 59.2 28.9 86.7  
150 158.9 0.0 356.2

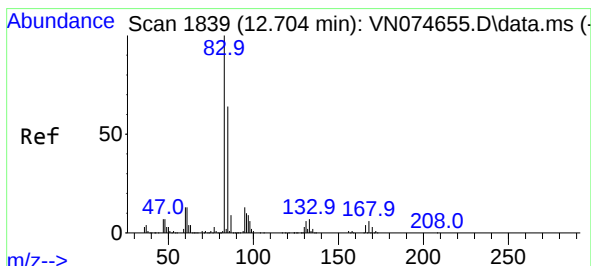
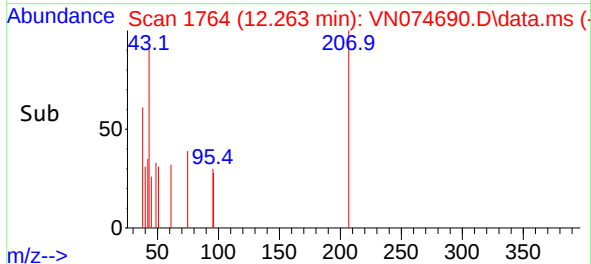
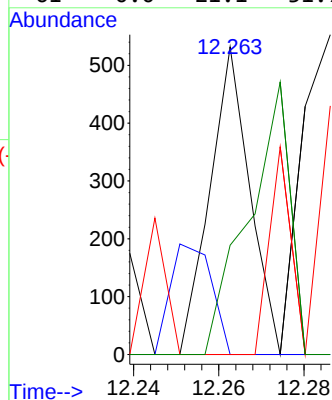
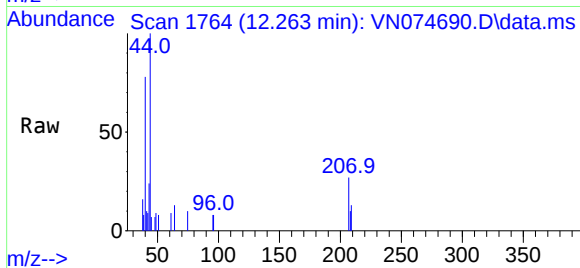




#74  
N-amy1 acetate  
Concen: Below Cal  
RT: 12.263 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

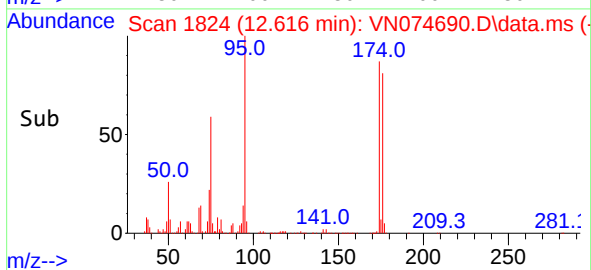
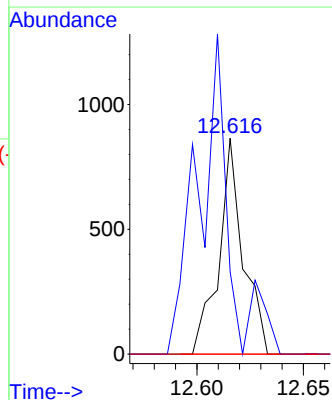
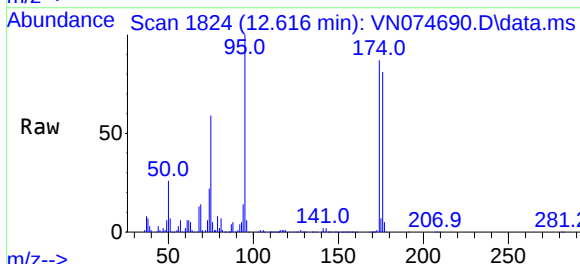
Instrument :  
MSVOA\_N  
ClientSampleId :  
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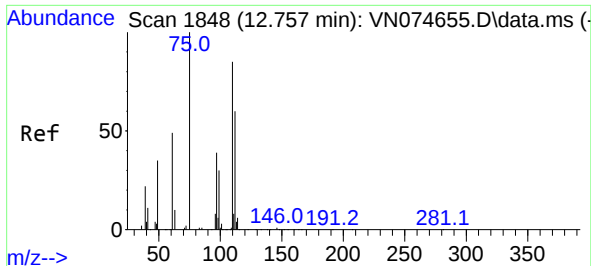
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 346   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 37.0  | 39.0  | 58.4# |
| 55       | 24.0  | 21.1  | 31.7  |
| 61       | 0.0   | 21.1  | 31.7# |



#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.616 min Scan# 1824  
Delta R.T. -0.088 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 685   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 162.8 | 5.3   | 15.9# |
| 85       | 0.0   | 32.3  | 96.9# |

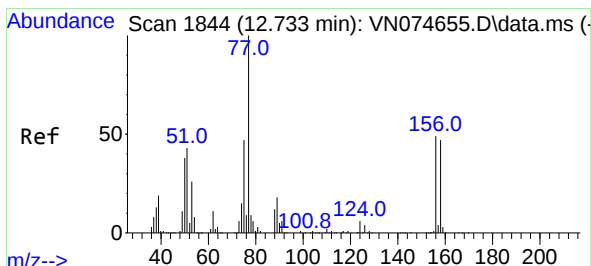
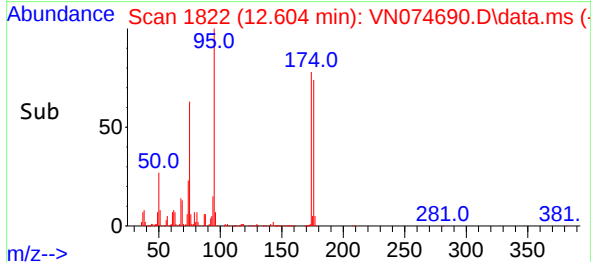
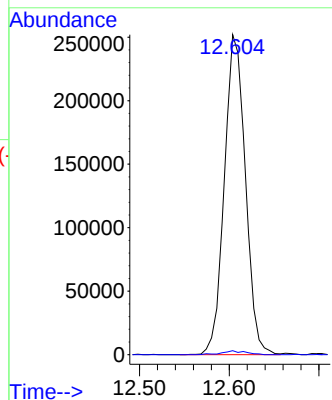
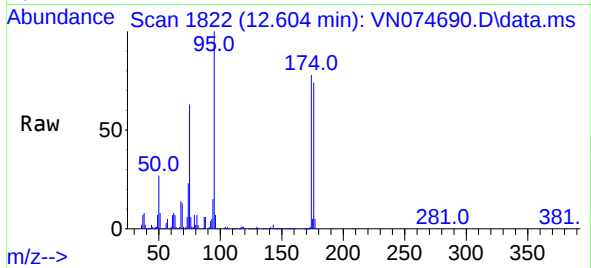




#76  
1,2,3-Trichloropropane  
Concen: 38.069 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.153 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

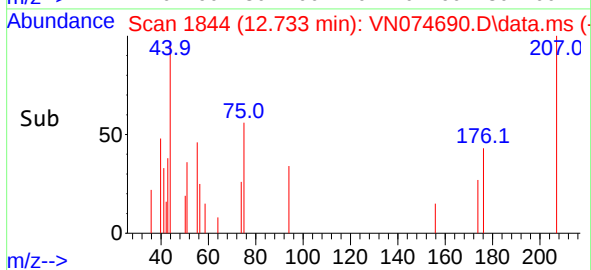
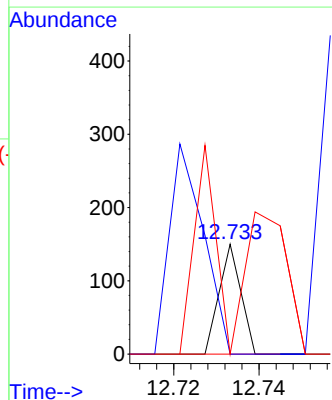
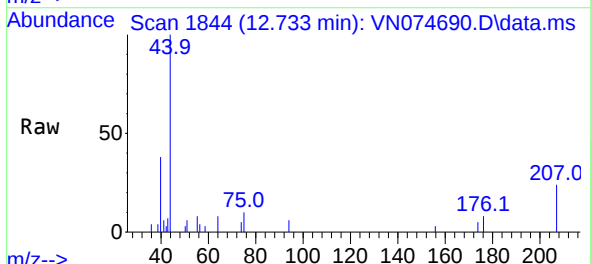
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-103

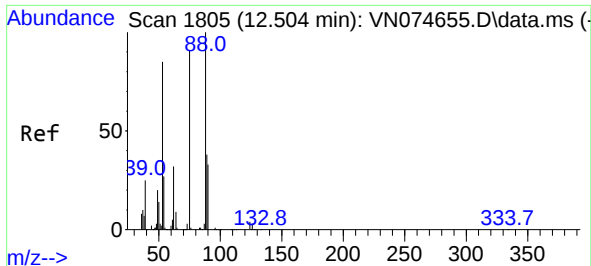
Tgt Ion: 75 Resp: 410563  
Ion Ratio Lower Upper  
75 100  
77 1.4 98.5 295.5#



#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.733 min Scan# 1844  
Delta R.T. 0.000 min  
Lab File: VN074690.D  
Acq: 01 Oct 2022 05:12

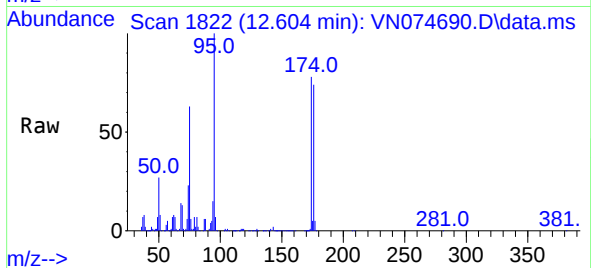
Tgt Ion: 156 Resp: 53  
Ion Ratio Lower Upper  
156 100  
77 0.0 100.5 301.5#  
158 190.6 48.9 146.6#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.195 ug/l  
 RT: 12.604 min Scan# 1822  
 Delta R.T. 0.100 min  
 Lab File: VN074690.D  
 Acq: 01 Oct 2022 05:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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Tgt Ion: 75 Resp: 410563  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 37.2 55.8#

