

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
 Data File : VN074671.D  
 Acq On : 30 Sep 2022 16:53  
 Operator : JC\MD  
 Sample : N4913-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 GWOW-BR-02-182-202-092922

Quant Time: Oct 03 02:06:46 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

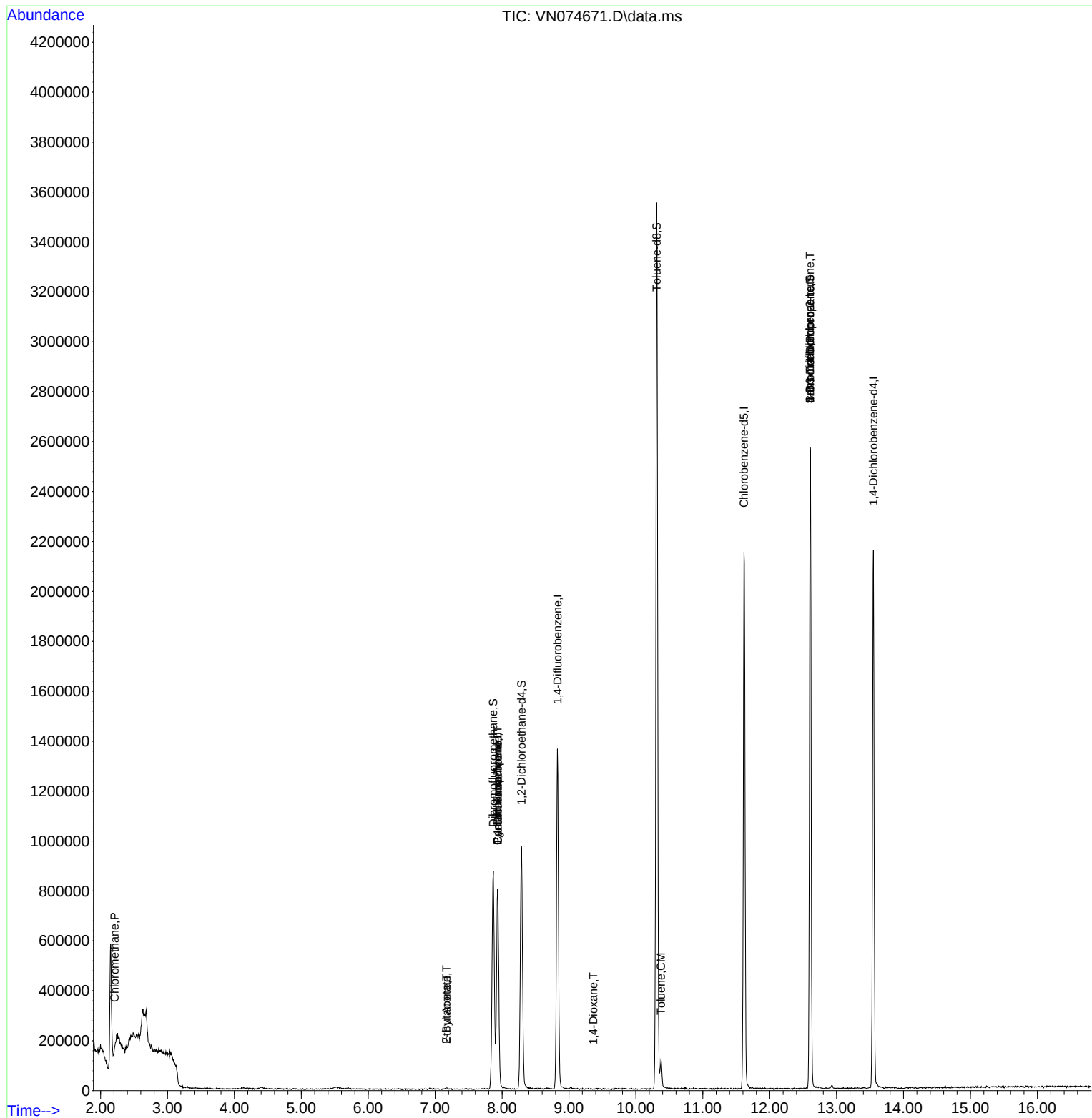
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.933          | 168  | 581805              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.827          | 114  | 1132269             | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.616         | 117  | 1151034             | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.551         | 152  | 521718              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.292          | 65   | 736826              | 50.532    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 101.060% |           |        |          |
| 35) Dibromofluoromethane      | 7.869          | 113  | 605323              | 50.509    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.020% |           |        |          |
| 50) Toluene-d8                | 10.310         | 98   | 2355824             | 46.733    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 93.460%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.604         | 95   | 784062              | 49.051    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 98.100%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.210          | 50   | 5682                | 0.319     | ug/l   | 100      |
| 8) Diethyl Ether              | 3.463          | 74   | 165                 | Below Cal |        | 75       |
| 13) Acrolein                  | 3.916          | 56   | 122                 | Below Cal | #      | 16       |
| 16) Acetone                   | 4.145          | 43   | 4318                | Below Cal | #      | 88       |
| 20) Methylene Chloride        | 4.904          | 84   | 287                 | Below Cal | #      | 14       |
| 25) 2-Butanone                | 7.169          | 43   | 9450                | 0.704     | ug/l # | 71       |
| 31) Cyclohexane               | 7.933          | 56   | 18186               | 0.768     | ug/l # | 56       |
| 36) 1,1-Dichloropropene       | 7.933          | 75   | 55800               | 2.907     | ug/l # | 51       |
| 37) Ethyl Acetate             | 7.169          | 43   | 9450                | 0.333     | ug/l # | 71       |
| 38) Carbon Tetrachloride      | 7.933          | 117  | 63405               | 3.606     | ug/l # | 16       |
| 49) 1,4-Dioxane               | 9.363          | 88   | 208                 | 0.583     | ug/l # | 1        |
| 52) Toluene                   | 10.374         | 92   | 40369               | 1.130     | ug/l   | 99       |
| 71) Bromoform                 | 12.604         | 173  | 5019                | 0.509     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.263         | 43   | 440                 | Below Cal | #      | 70       |
| 75) 1,1,2,2-Tetrachloroethane | 12.657         | 83   | 72                  | Below Cal | #      | 25       |
| 76) 1,2,3-Trichloropropane    | 12.604         | 75   | 467377              | 39.582    | ug/l # | 1        |
| 77) Bromobenzene              | 12.727         | 156  | 283                 | Below Cal | #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.604         | 75   | 467377              | 74.863    | ug/l # | 10       |
| 94) Hexachlorobutadiene       | 15.239         | 225  | 85                  | Below Cal | #      | 18       |
| -----                         |                |      |                     |           |        |          |

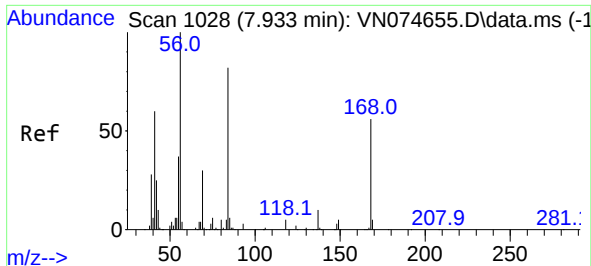
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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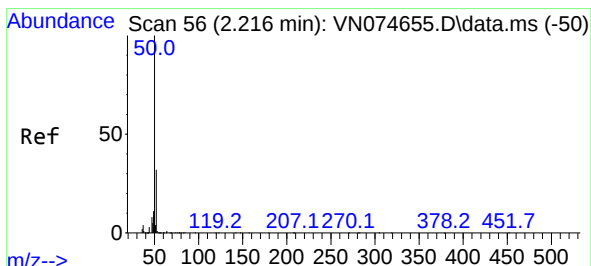
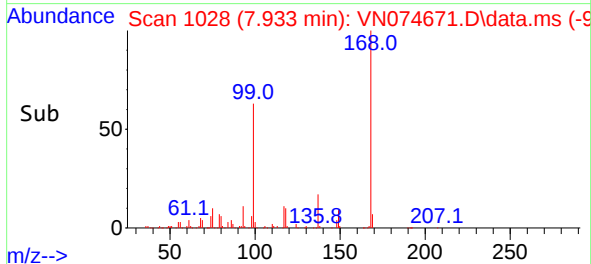
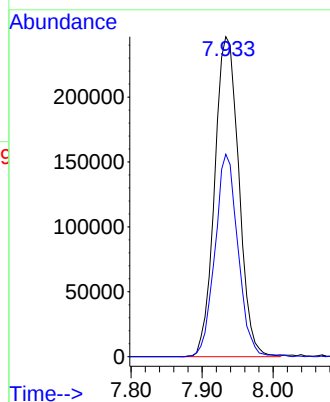
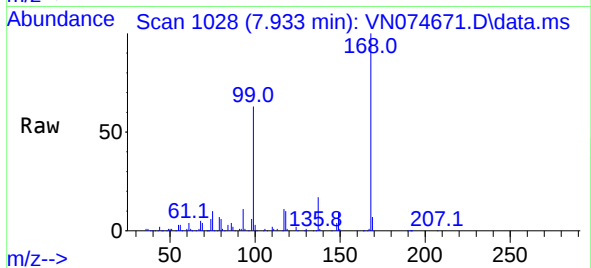




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.933 min Scan# 1028  
Delta R.T. 0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

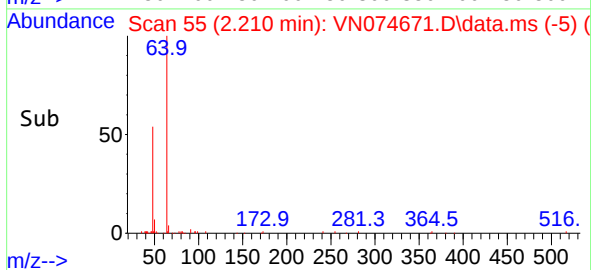
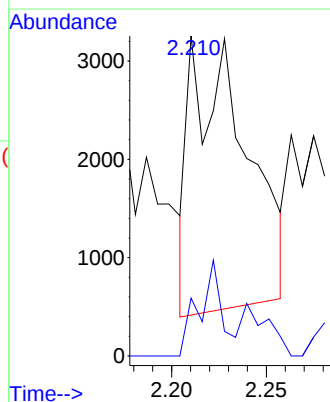
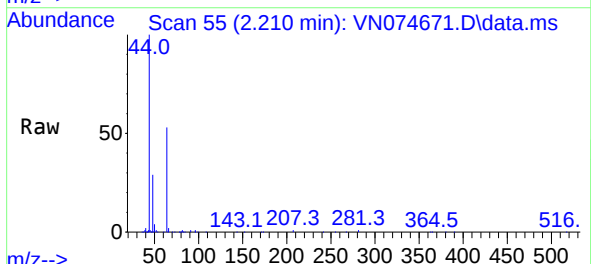
Instrument : MSVOA\_N  
ClientSampleId : GWOW-BR-02-182-202-092922

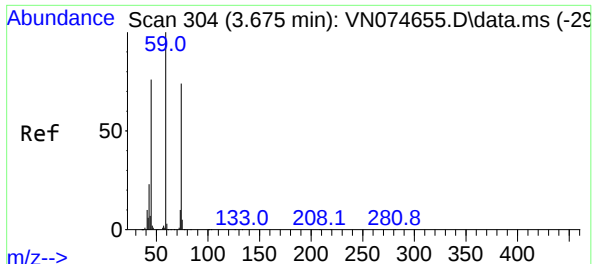
Tgt Ion:168 Resp: 581805  
Ion Ratio Lower Upper  
168 100  
99 63.2 42.3 63.5



#3  
Chloromethane  
Concen: 0.319 ug/l  
RT: 2.210 min Scan# 55  
Delta R.T. -0.006 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 50 Resp: 5682  
Ion Ratio Lower Upper  
50 100  
52 32.1 25.7 38.5

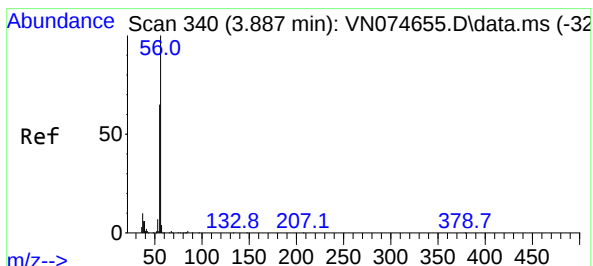
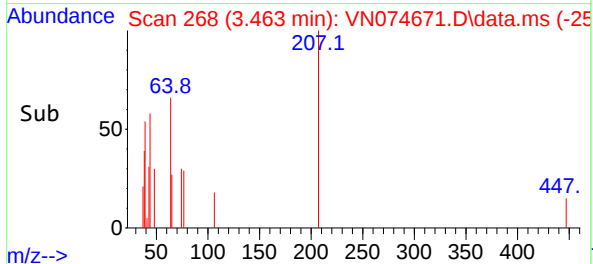
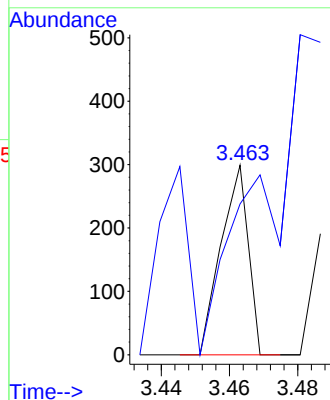
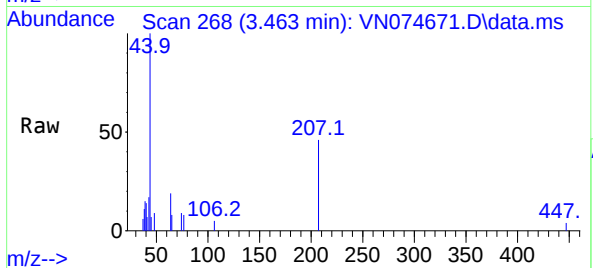




#8  
Diethyl Ether  
Concen: Below Cal  
RT: 3.463 min Scan# 21  
Delta R.T. -0.212 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

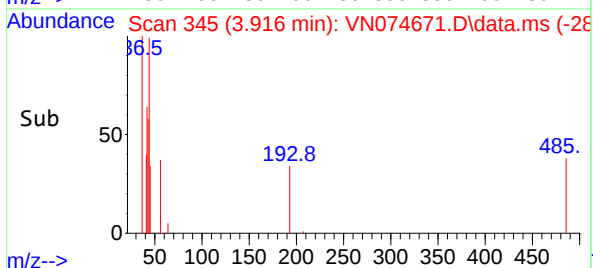
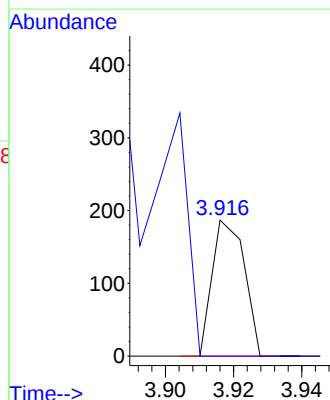
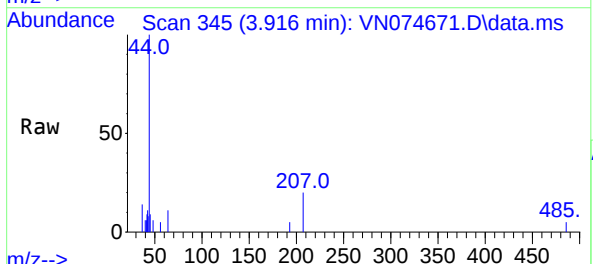
Instrument :  
MSVOA\_N  
ClientSampleId :  
GWOW-BR-02-182-202-092922

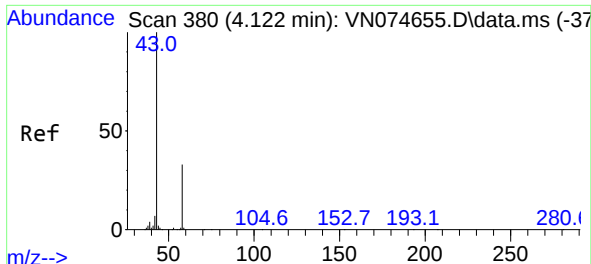
Tgt Ion: 74 Resp: 165  
Ion Ratio Lower Upper  
74 100  
45 108.5 42.9 128.5



#13  
Acrolein  
Concen: Below Cal  
RT: 3.916 min Scan# 345  
Delta R.T. 0.029 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 56 Resp: 122  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.8 82.2#

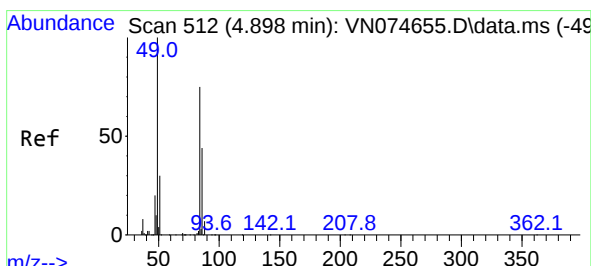
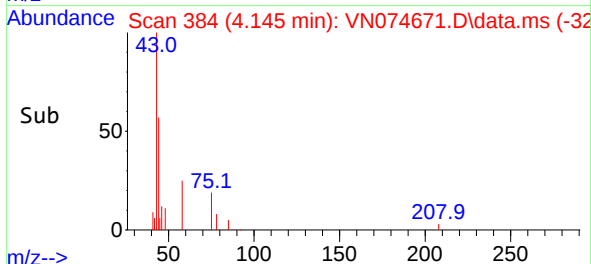
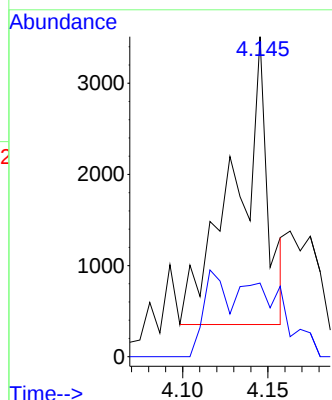
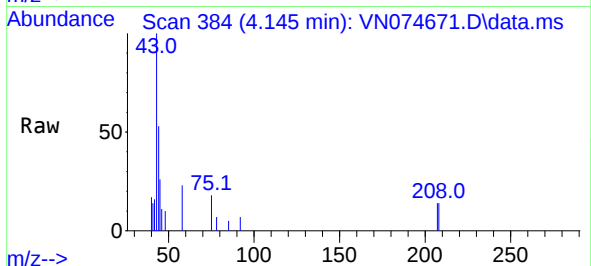




#16  
Acetone  
Concen: Below Cal  
RT: 4.145 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

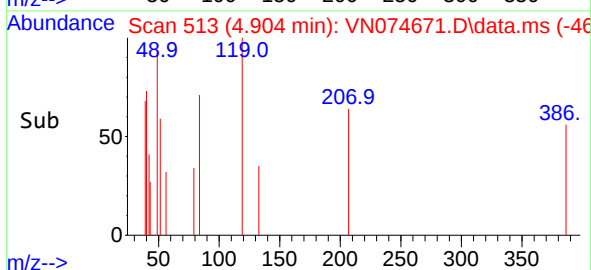
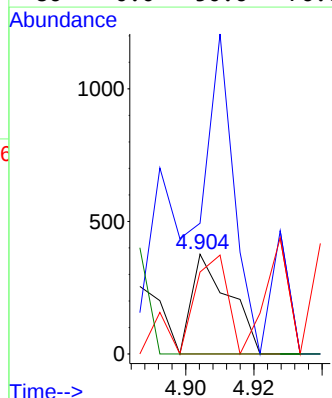
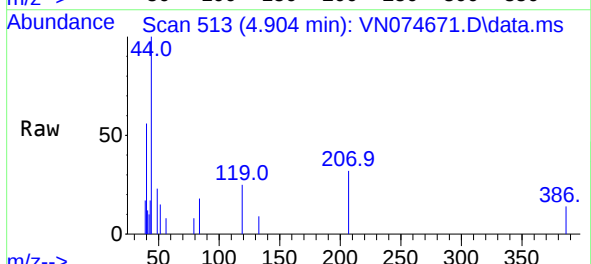
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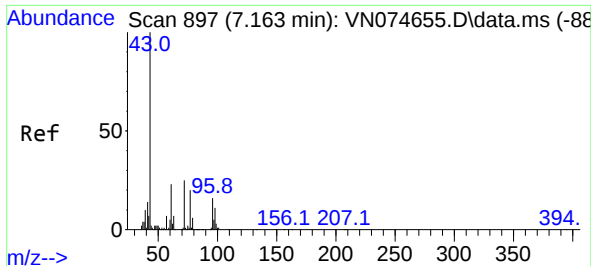
Tgt Ion: 43 Resp: 4318  
Ion Ratio Lower Upper  
43 100  
58 25.6 26.0 39.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.904 min Scan# 513  
Delta R.T. 0.006 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 84 Resp: 287  
Ion Ratio Lower Upper  
84 100  
49 15.4 88.3 132.5#  
51 82.2 28.2 42.2#  
86 0.0 50.6 76.0#

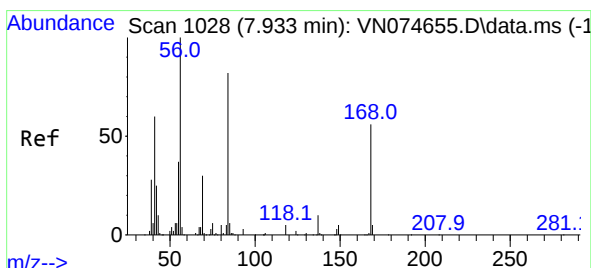
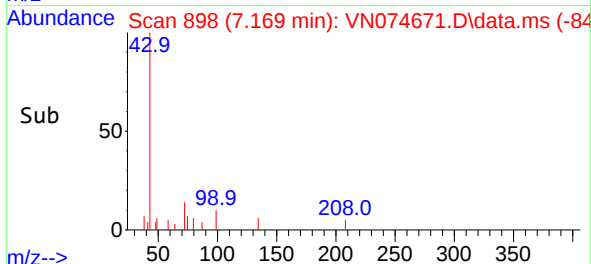
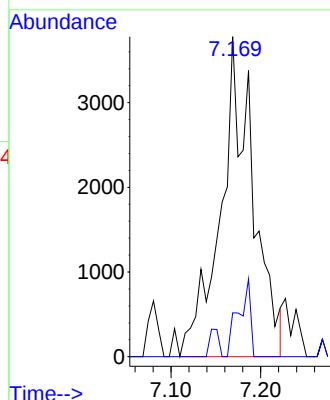
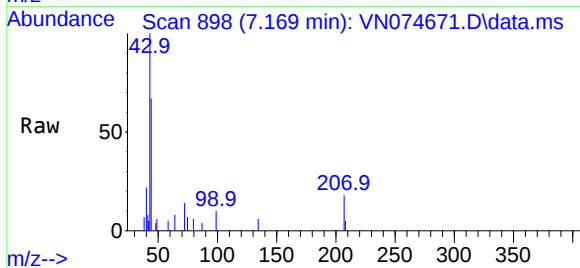




#25  
2-Butanone  
Concen: 0.704 ug/l  
RT: 7.169 min Scan# 897  
Delta R.T. 0.006 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

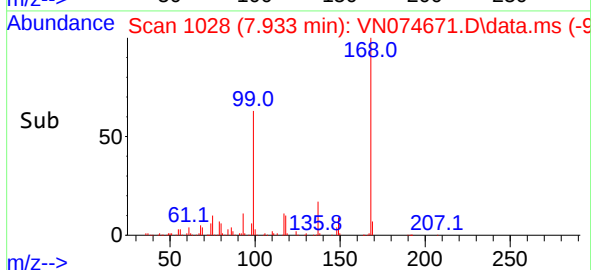
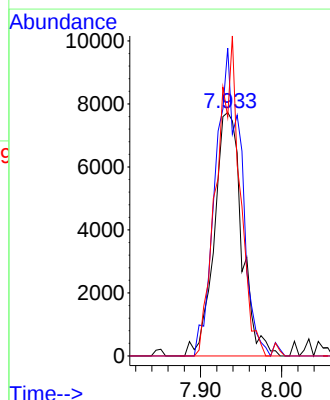
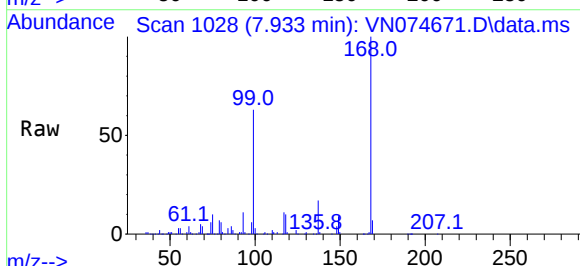
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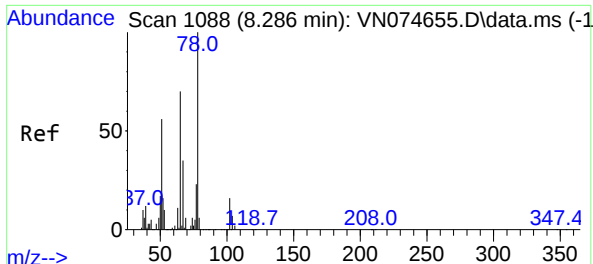
Tgt Ion: 43 Resp: 9450  
Ion Ratio Lower Upper  
43 100  
72 13.7 23.7 35.5#



#31  
Cyclohexane  
Concen: 0.768 ug/l  
RT: 7.933 min Scan# 1028  
Delta R.T. 0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 56 Resp: 18186  
Ion Ratio Lower Upper  
56 100  
69 126.5 27.8 41.8#  
84 98.1 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 50.532 ug/l

RT: 8.292 min Scan# 1108

Delta R.T. 0.006 min

Lab File: VN074671.D

Acq: 30 Sep 2022 16:53

Instrument :

MSVOA\_N

ClientSampleId :

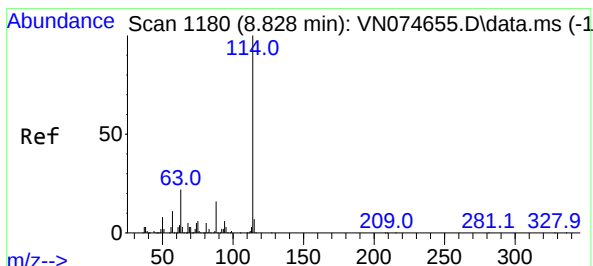
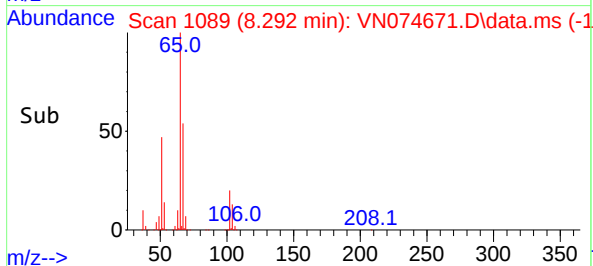
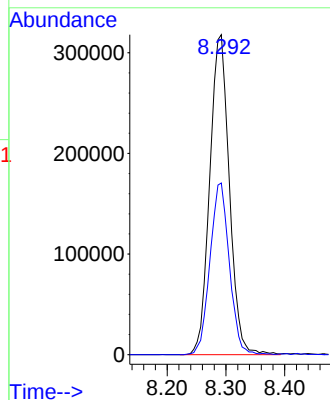
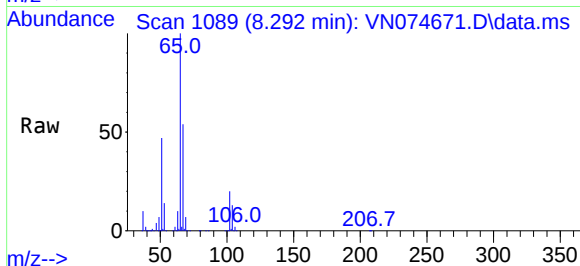
GWOW-BR-02-182-202-092922

Tgt Ion: 65 Resp: 736826

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.827 min Scan# 1180

Delta R.T. -0.001 min

Lab File: VN074671.D

Acq: 30 Sep 2022 16:53

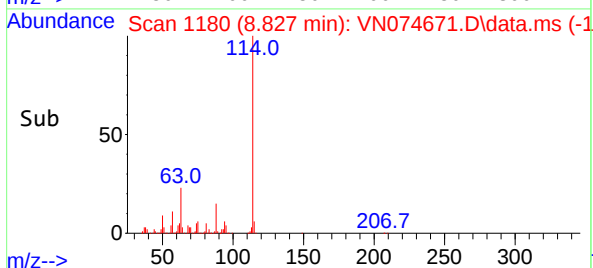
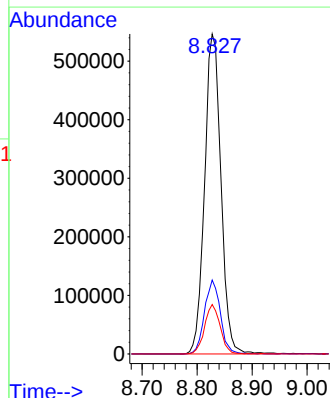
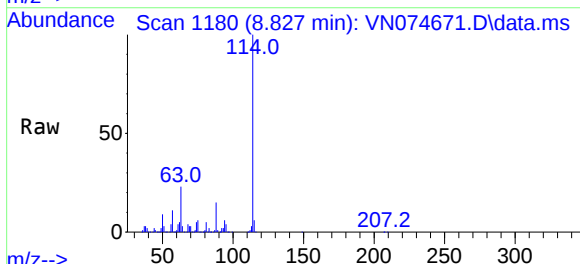
Tgt Ion: 114 Resp: 1132269

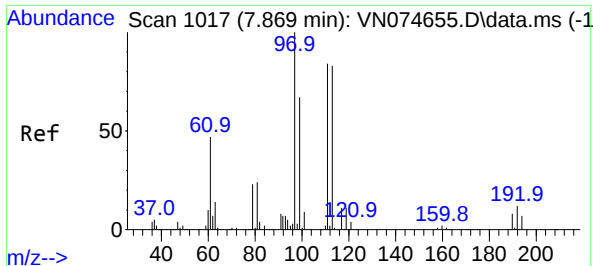
Ion Ratio Lower Upper

114 100

63 23.1 0.0 40.0

88 15.5 0.0 32.6

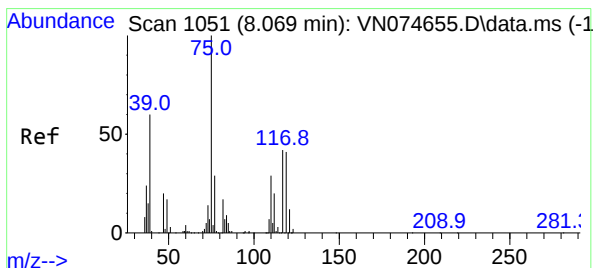
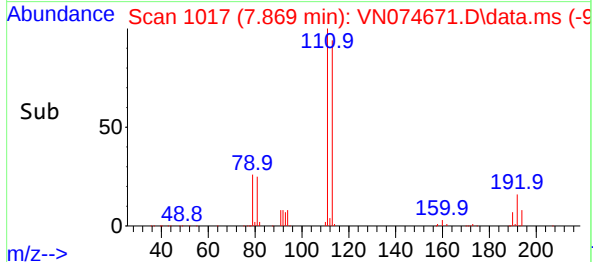
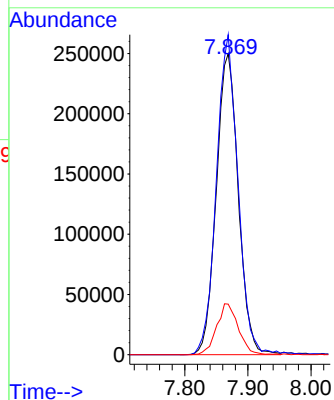
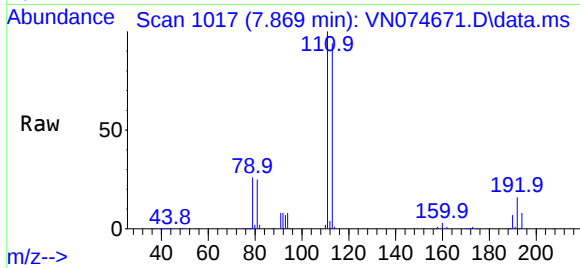




#35  
Dibromofluoromethane  
Concen: 50.509 ug/l  
RT: 7.869 min Scan# 1017  
Delta R.T. -0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

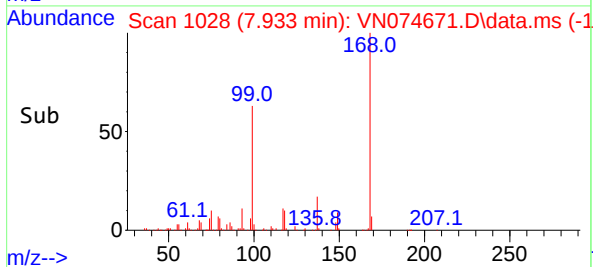
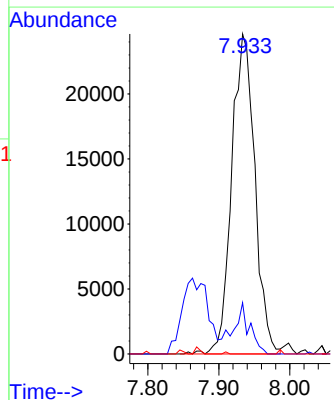
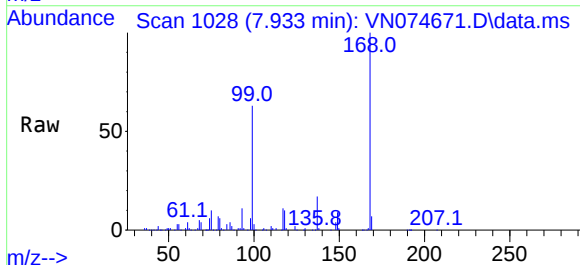
Instrument : MSVOA\_N  
ClientSampleId : GWOW-BR-02-182-202-092922

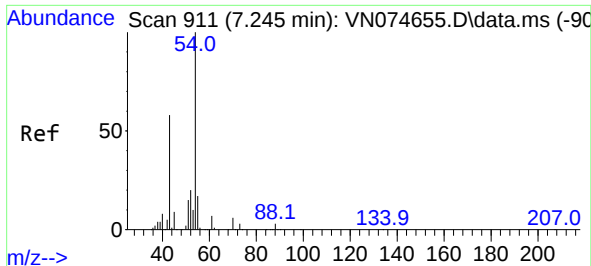
Tgt Ion:113 Resp: 605323  
Ion Ratio Lower Upper  
113 100  
111 104.4 81.4 122.0  
192 16.6 17.0 25.6#



#36  
1,1-Dichloropropene  
Concen: 2.907 ug/l  
RT: 7.933 min Scan# 1028  
Delta R.T. -0.136 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 75 Resp: 55800  
Ion Ratio Lower Upper  
75 100  
110 11.1 18.3 54.8#  
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.333 ug/l

RT: 7.169 min Scan# 89

Delta R.T. -0.076 min

Lab File: VN074671.D

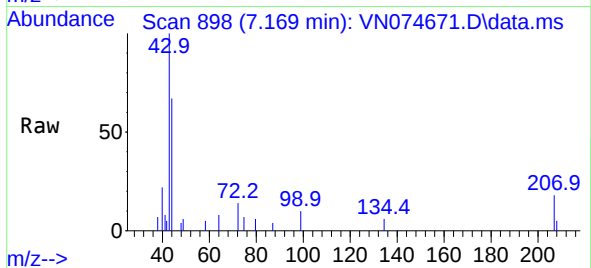
Acq: 30 Sep 2022 16:53

Instrument :

MSVOA\_N

ClientSampleId :

GWOW-BR-02-182-202-092922



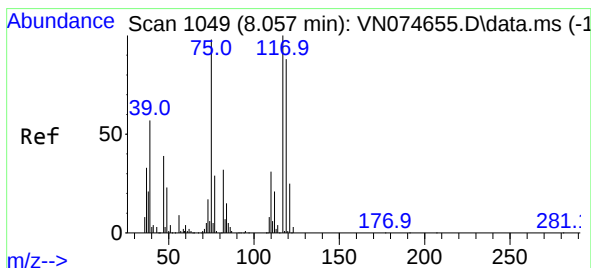
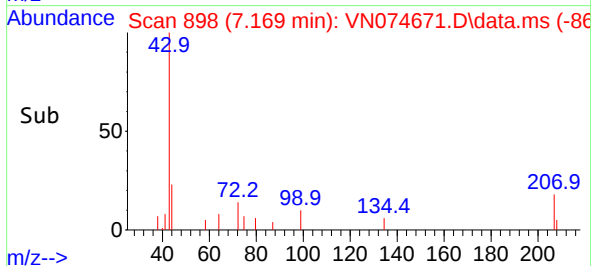
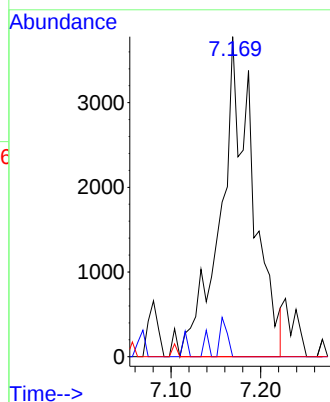
Tgt Ion: 43 Resp: 9450

Ion Ratio Lower Upper

43 100

61 2.8 11.8 17.6#

70 0.0 9.3 13.9#



#38

Carbon Tetrachloride

Concen: 3.606 ug/l

RT: 7.933 min Scan# 1028

Delta R.T. -0.124 min

Lab File: VN074671.D

Acq: 30 Sep 2022 16:53

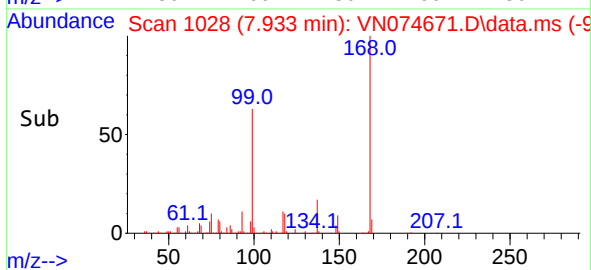
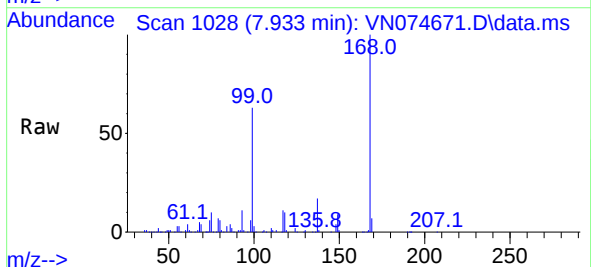
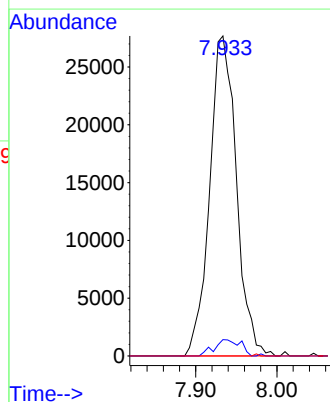
Tgt Ion: 117 Resp: 63405

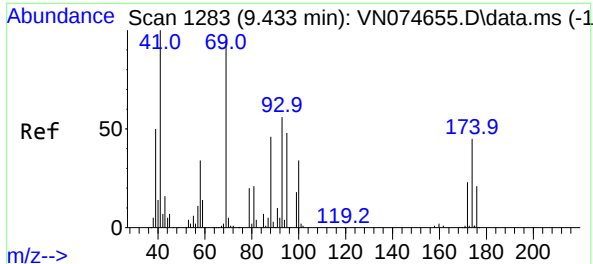
Ion Ratio Lower Upper

117 100

119 5.1 75.8 113.8#

121 0.0 24.6 37.0#

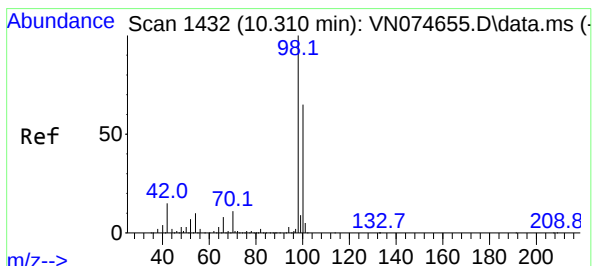
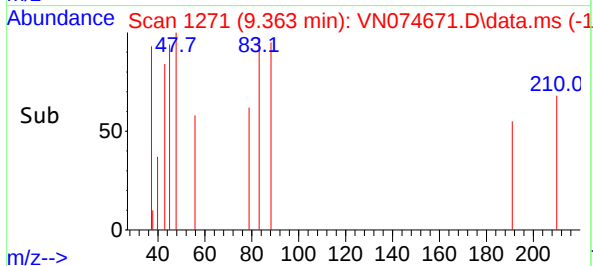
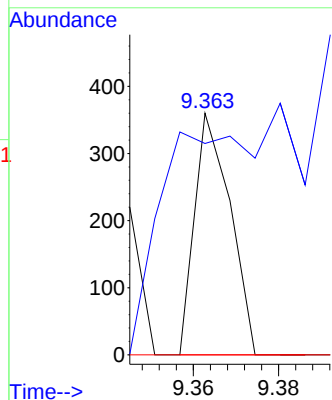
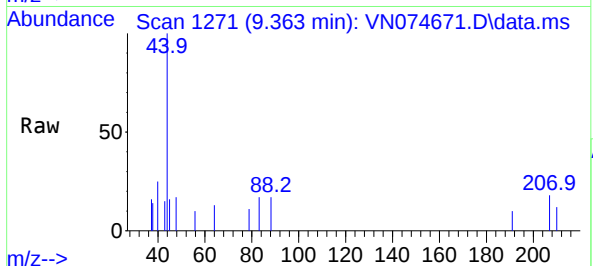




#49  
1,4-Dioxane  
Concen: 0.583 ug/l  
RT: 9.363 min Scan# 11  
Delta R.T. -0.070 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

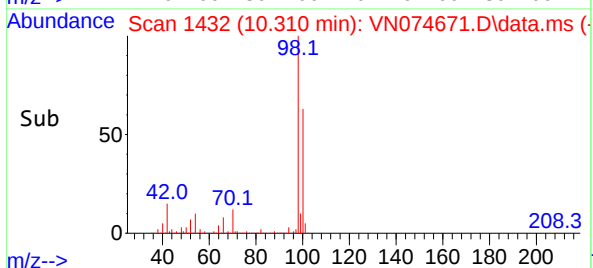
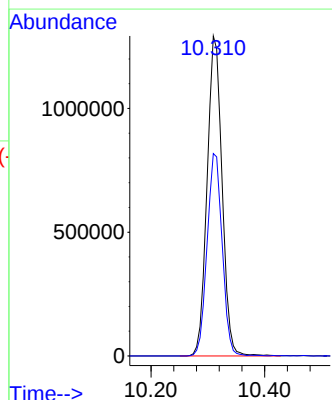
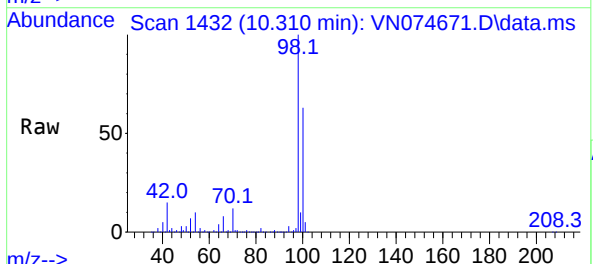
Instrument :  
MSVOA\_N  
ClientSampleId :  
GWOW-BR-02-182-202-092922

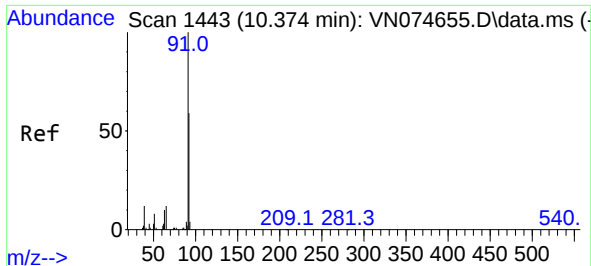
Tgt Ion: 88 Resp: 208  
Ion Ratio Lower Upper  
88 100  
43 249.0 20.2 30.4#  
58 0.0 54.2 81.4#



#50  
Toluene-d8  
Concen: 46.733 ug/l  
RT: 10.310 min Scan# 1432  
Delta R.T. -0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 98 Resp: 2355824  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.6 78.8

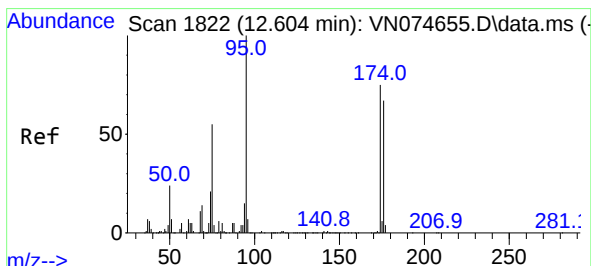
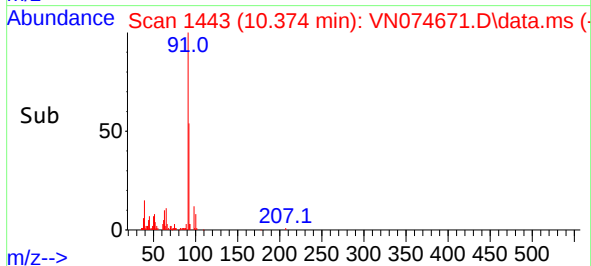
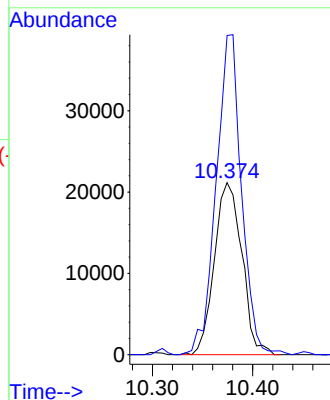
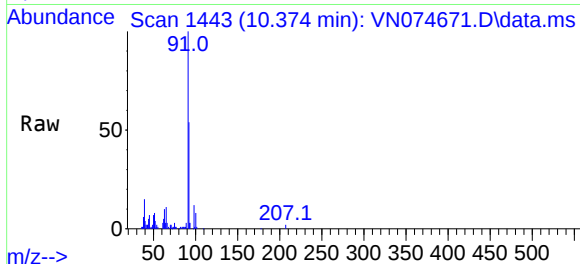




#52  
Toluene  
Concen: 1.130 ug/l  
RT: 10.374 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

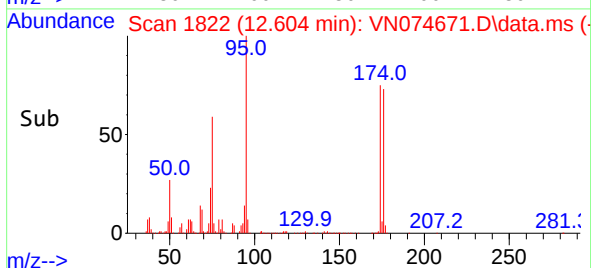
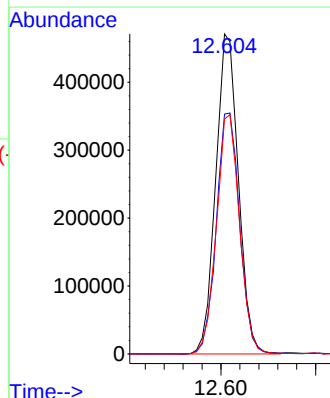
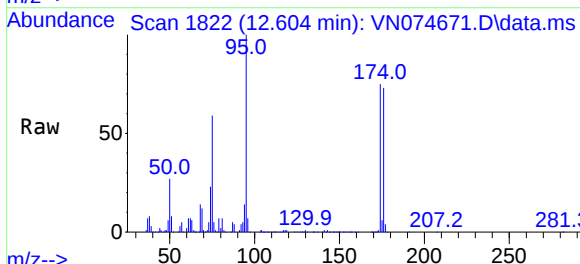
Instrument : MSVOA\_N  
ClientSampleId : GWOW-BR-02-182-202-092922

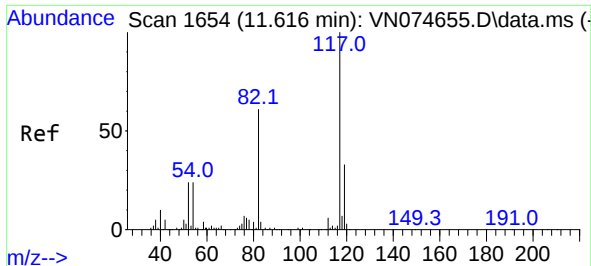
Tgt Ion: 92 Resp: 40369  
Ion Ratio Lower Upper  
92 100  
91 171.5 138.6 207.8



#62  
4-Bromofluorobenzene  
Concen: 49.051 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 95 Resp: 784062  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 167.6  
176 76.1 0.0 163.4

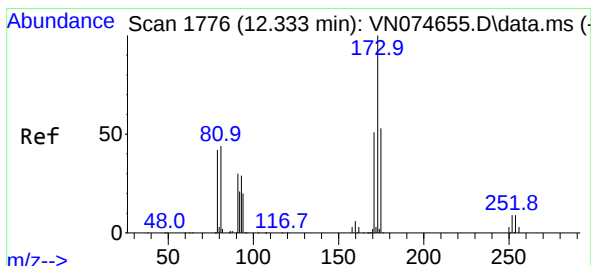
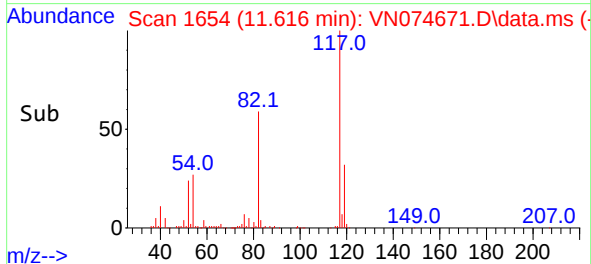
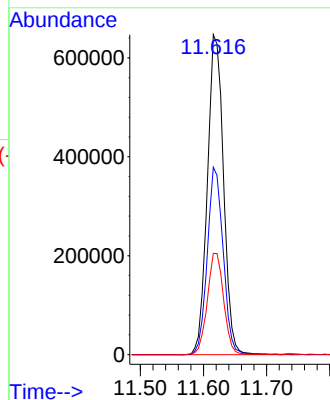
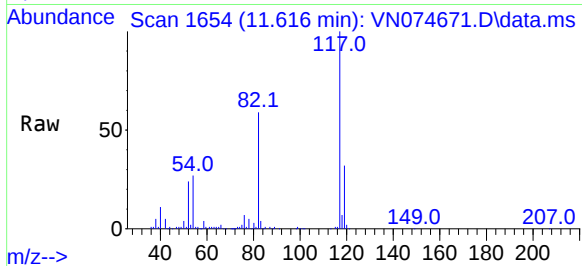




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.616 min Scan# 1151034  
Delta R.T. -0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

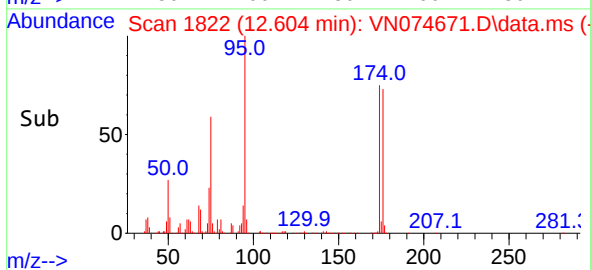
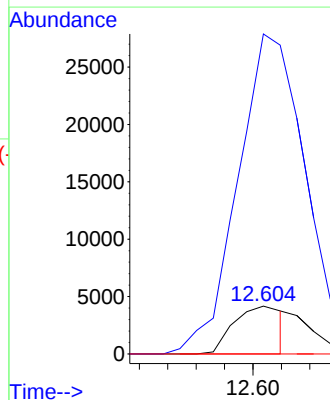
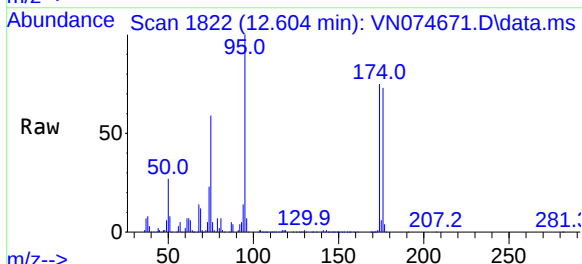
Instrument : MSVOA\_N  
ClientSampleId : GWOW-BR-02-182-202-092922

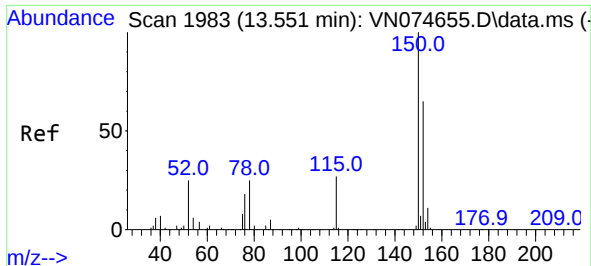
Tgt Ion:117 Resp: 1151034  
Ion Ratio Lower Upper  
117 100  
82 58.6 44.2 66.2  
119 31.7 25.4 38.0



#71  
Bromoform  
Concen: 0.509 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. 0.271 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion:173 Resp: 5019  
Ion Ratio Lower Upper  
173 100  
175 643.6 24.6 73.6#  
254 0.0 0.1 0.1#

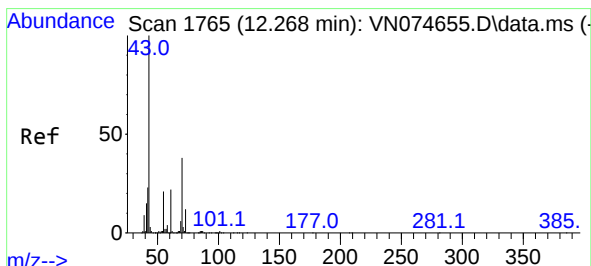
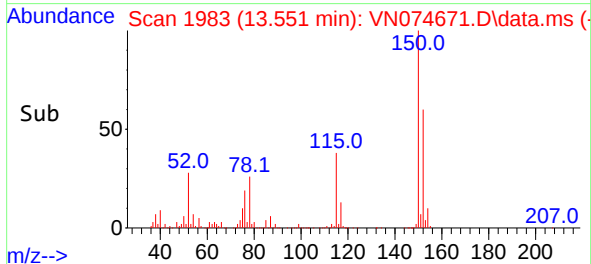
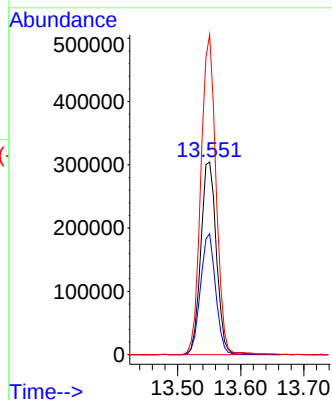
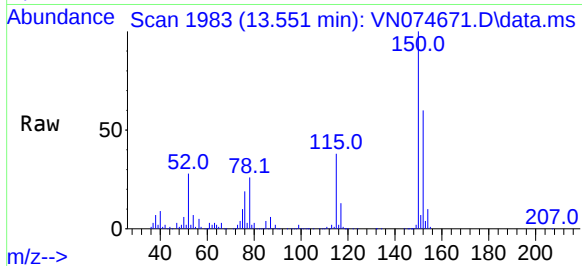




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.551 min Scan# 1983  
Delta R.T. -0.000 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

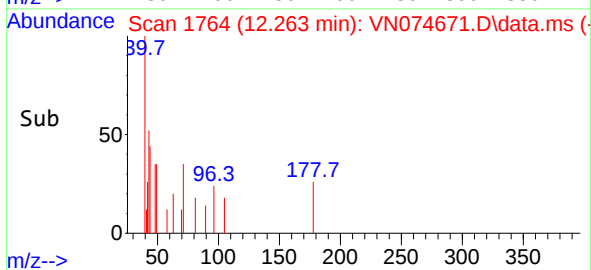
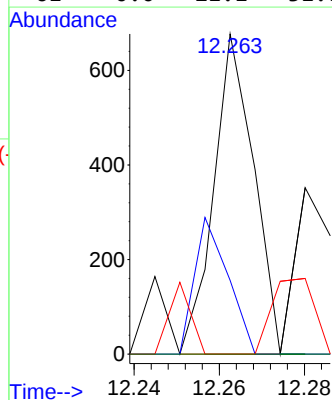
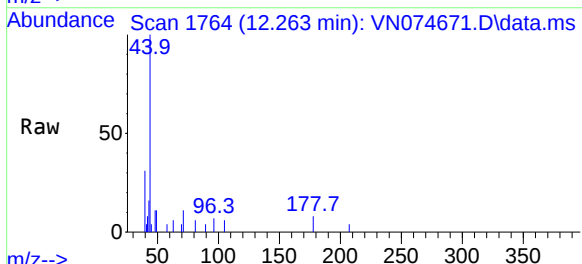
Instrument : MSVOA\_N  
ClientSampleId : GWOW-BR-02-182-202-092922

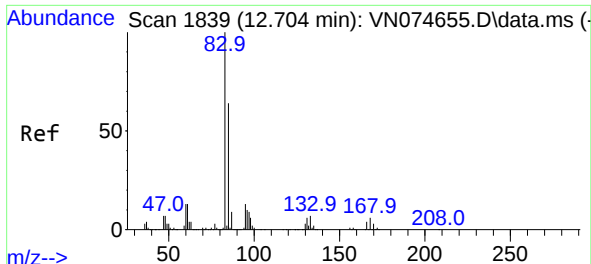
Tgt Ion:152 Resp: 521718  
Ion Ratio Lower Upper  
152 100  
115 61.1 28.9 86.7  
150 161.0 0.0 356.2



#74  
N-ethyl acetate  
Concen: Below Cal  
RT: 12.263 min Scan# 1764  
Delta R.T. -0.005 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 43 Resp: 440  
Ion Ratio Lower Upper  
43 100  
70 35.7 39.0 58.4#  
55 12.3 21.1 31.7#  
61 0.0 21.1 31.7#

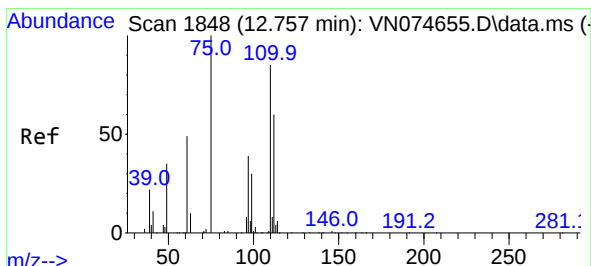
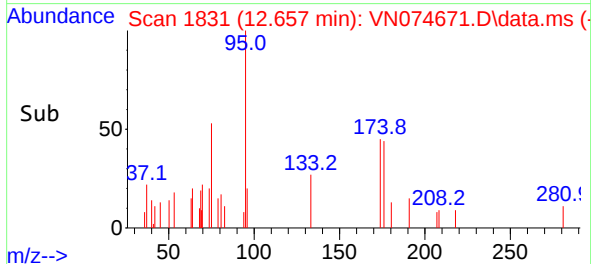
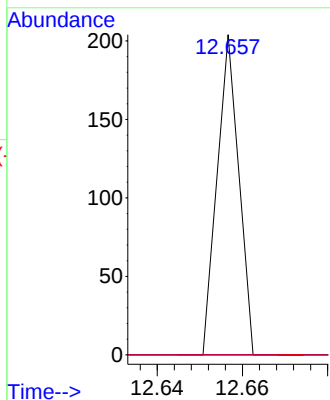
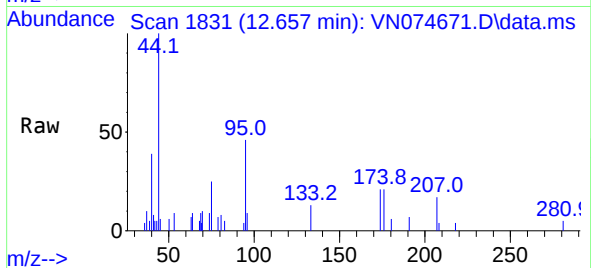




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.657 min Scan# 1822  
Delta R.T. -0.047 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

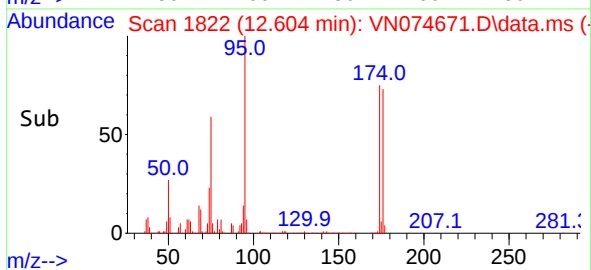
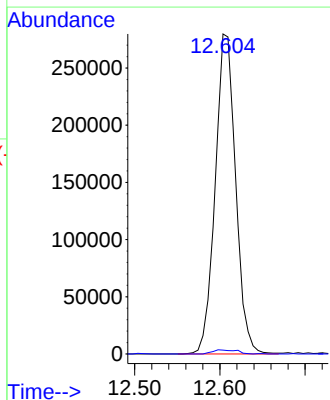
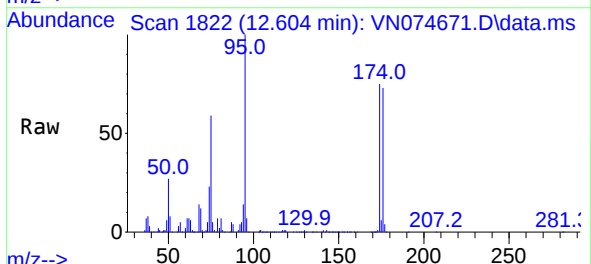
Instrument : MSVOA\_N  
ClientSampleId : GWOW-BR-02-182-202-092922

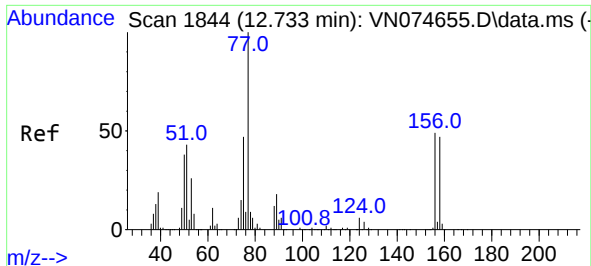
Tgt Ion: 83 Resp: 72  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.3 15.9#  
85 0.0 32.3 96.9#



#76  
1,2,3-Trichloropropane  
Concen: 39.582 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.153 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Tgt Ion: 75 Resp: 467377  
Ion Ratio Lower Upper  
75 100  
77 1.5 98.5 295.5#

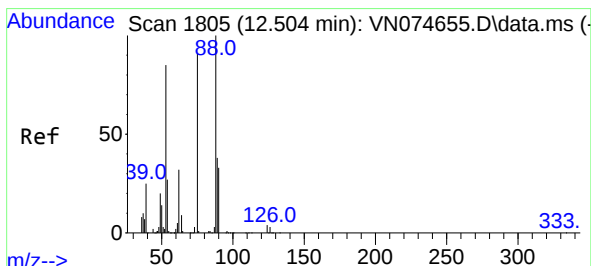
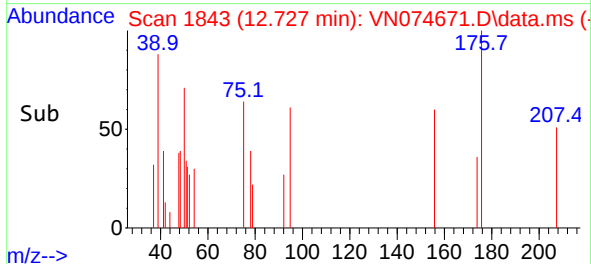
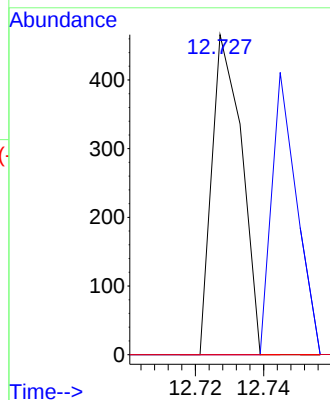
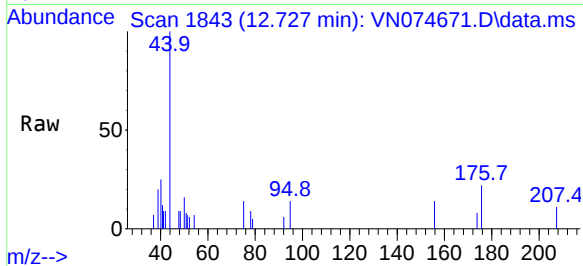




#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.727 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

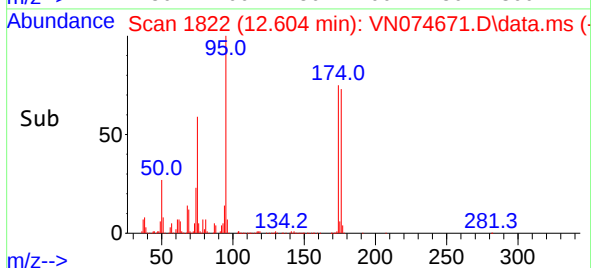
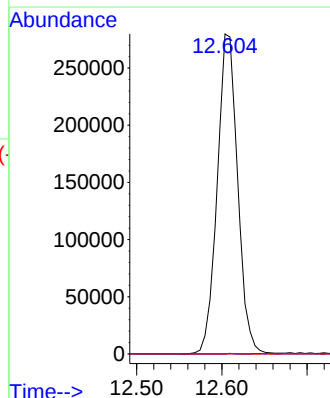
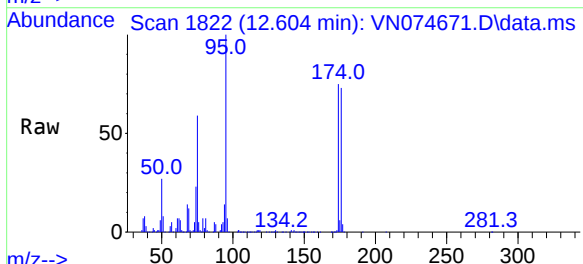
Instrument :  
MSVOA\_N  
ClientSampleId :  
GWOW-BR-02-182-202-092922

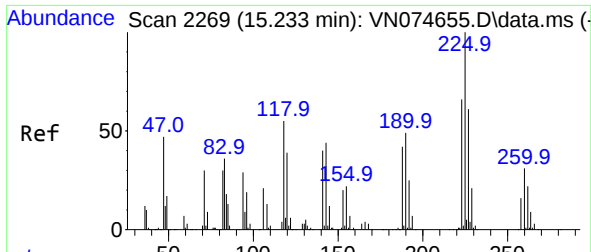
Tgt Ion:156 Resp: 283  
Ion Ratio Lower Upper  
156 100  
77 0.0 100.5 301.5#  
158 0.0 48.9 146.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.863 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. 0.100 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

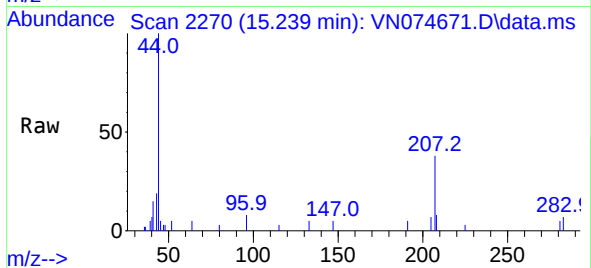
Tgt Ion: 75 Resp: 467377  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.1 37.2 55.8#





#94  
Hexachlorobutadiene  
Concen: Below Cal  
RT: 15.239 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN074671.D  
Acq: 30 Sep 2022 16:53

Instrument :  
MSVOA\_N  
ClientSampleId :  
GWOW-BR-02-182-202-092922



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 85    |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 32.4  | 97.2# |
| 227      | 0.0   | 31.8  | 95.4# |

