

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032223\  
 Data File : VN077118.D  
 Acq On : 22 Mar 2023 19:26  
 Operator : JC\MD  
 Sample : 01849-07  
 Misc : 10.92 g/5.0mL/100uL/5.0mL/MSVOA\_N/MEOH  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CB-10-30.0-030823

Quant Time: Mar 22 23:28:18 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

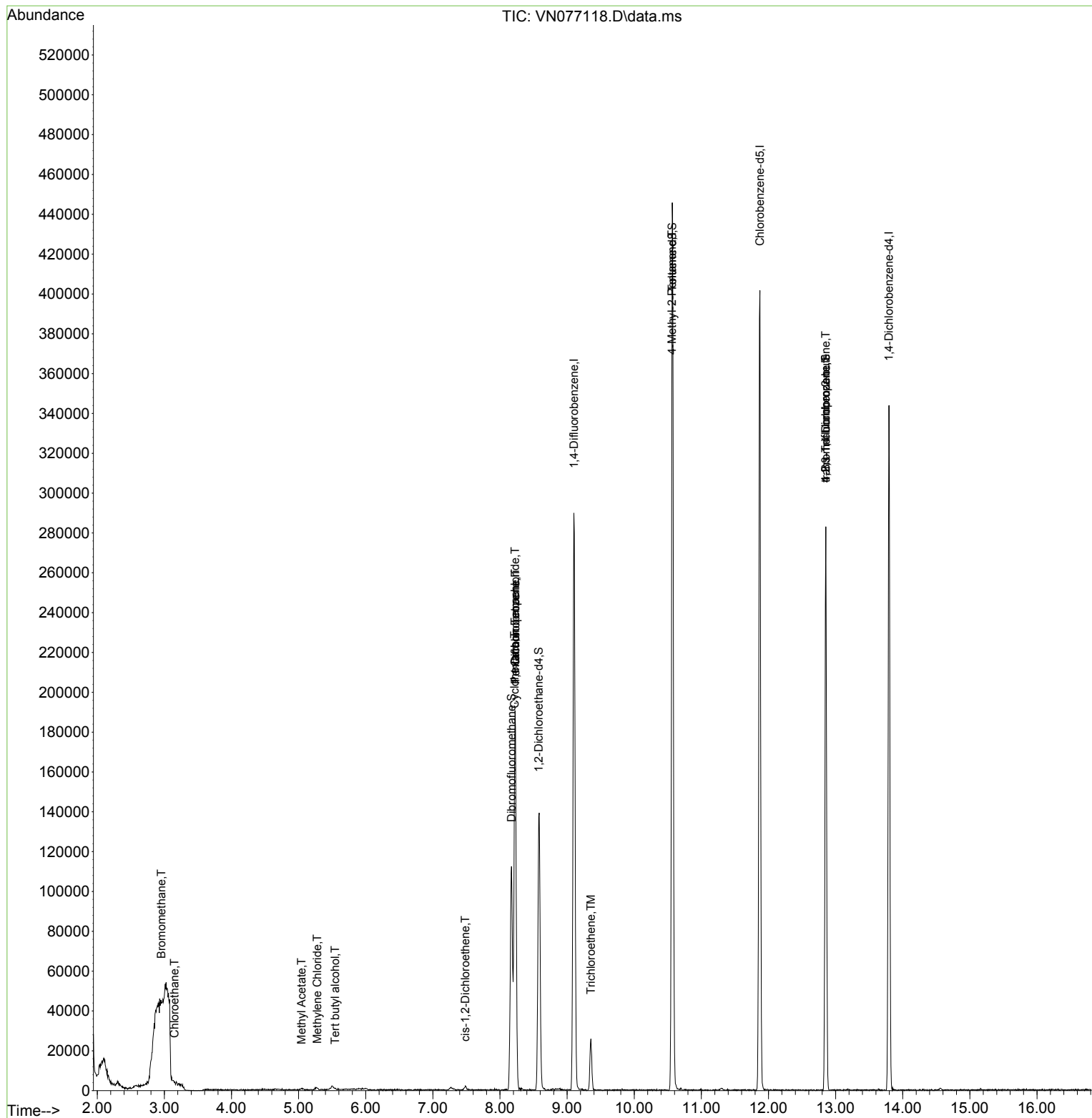
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.231          | 168  | 121696              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.101          | 114  | 230448              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.872         | 117  | 204960              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 78218               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.578          | 65   | 114130              | 58.713 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 117.420% |        |        |          |
| 35) Dibromofluoromethane      | 8.172          | 113  | 77945               | 48.297 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 96.600%  |        |        |          |
| 50) Toluene-d8                | 10.566         | 98   | 296043              | 51.353 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 102.700% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 87576               | 42.990 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 85.980%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 5) Bromomethane               | 2.954          | 94   | 341                 | 0.381  | ug/l # | 3        |
| 6) Chloroethane               | 3.149          | 64   | 246                 | 0.294  | ug/l # | 42       |
| 11) Tert butyl alcohol        | 5.543          | 59   | 381                 | 1.345  | ug/l # | 72       |
| 18) Methyl Acetate            | 5.043          | 43   | 1024                | 0.314  | ug/l # | 90       |
| 20) Methylene Chloride        | 5.278          | 84   | 822                 | 0.437  | ug/l # | 16       |
| 27) cis-1,2-Dichloroethene    | 7.484          | 96   | 547                 | 0.298  | ug/l   | 53       |
| 31) Cyclohexane               | 8.219          | 56   | 4250                | 1.336  | ug/l # | 38       |
| 36) 1,1-Dichloropropene       | 8.231          | 75   | 14019               | 5.562  | ug/l # | 43       |
| 38) Carbon Tetrachloride      | 8.225          | 117  | 14995               | 6.107  | ug/l # | 16       |
| 44) Trichloroethene           | 9.354          | 130  | 7677                | 4.372  | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.560         | 43   | 1447                | 0.552  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.854         | 75   | 54887               | 27.129 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.854         | 75   | 54887               | 74.673 | ug/l # | 10       |
| -----                         |                |      |                     |        |        |          |

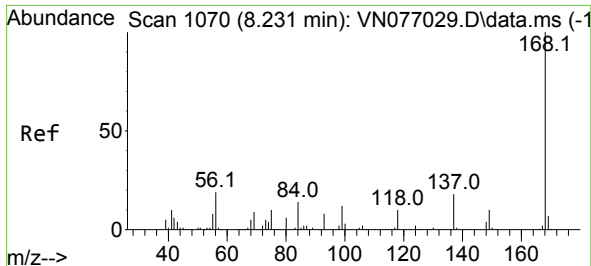
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032223\  
Data File : VN077118.D  
Acq On : 22 Mar 2023 19:26  
Operator : JC\MD  
Sample : 01849-07  
Misc : 10.92 g/5.0mL/100uL/5.0mL/MSVOA\_N/MEOH  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-30.0-030823

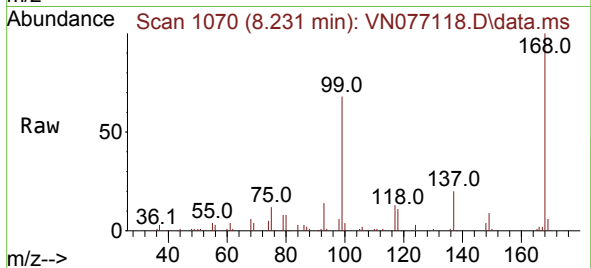
Quant Time: Mar 22 23:28:18 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 20 08:50:30 2023  
Response via : Initial Calibration



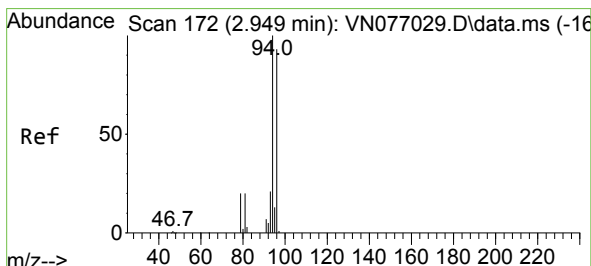
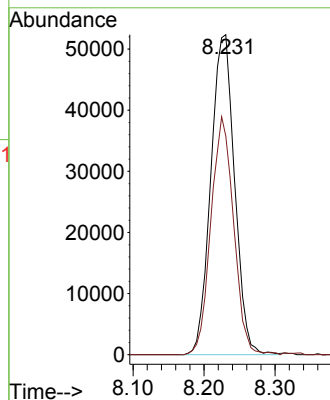
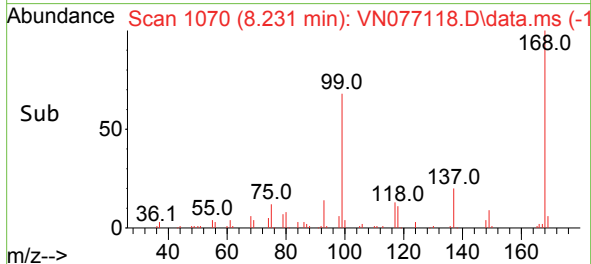


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-30.0-030823

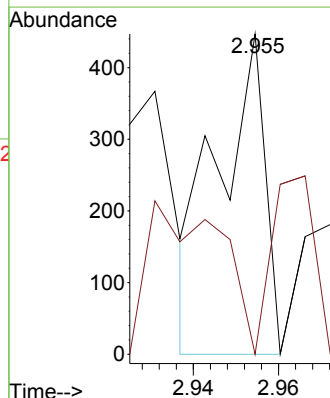
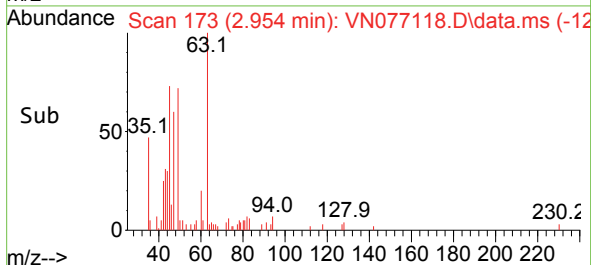
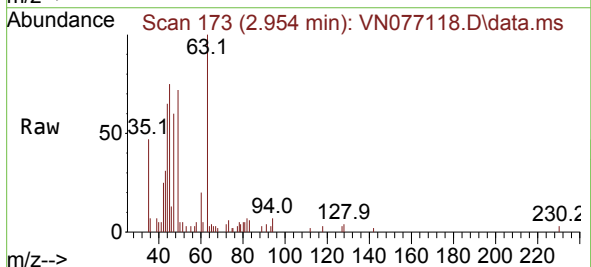


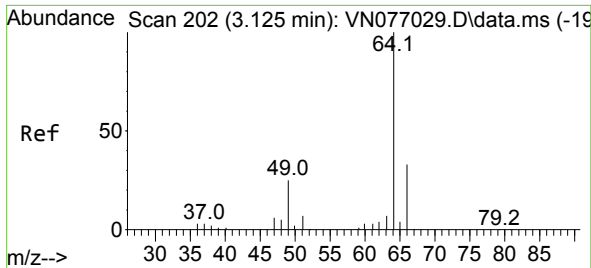
Tgt Ion:168 Resp: 121696  
Ion Ratio Lower Upper  
168 100  
99 68.3 53.9 80.9



#5  
Bromomethane  
Concen: 0.381 ug/l  
RT: 2.954 min Scan# 173  
Delta R.T. 0.006 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Tgt Ion: 94 Resp: 341  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.1 111.1#

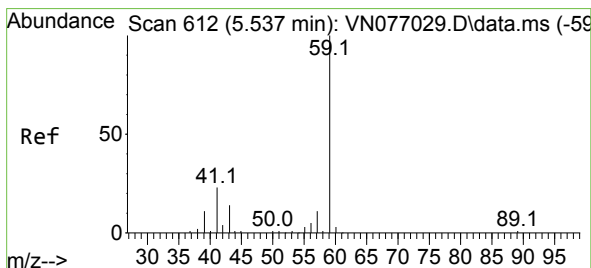
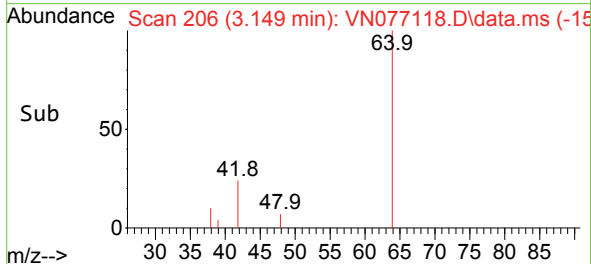
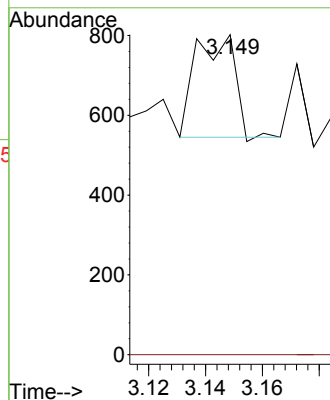
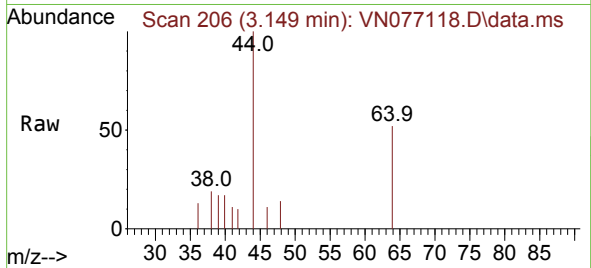




#6  
Chloroethane  
Concen: 0.294 ug/l  
RT: 3.149 min Scan# 206  
Delta R.T. 0.024 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

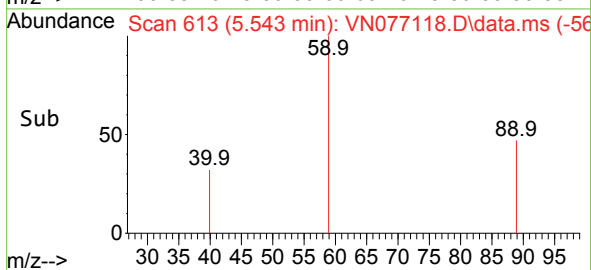
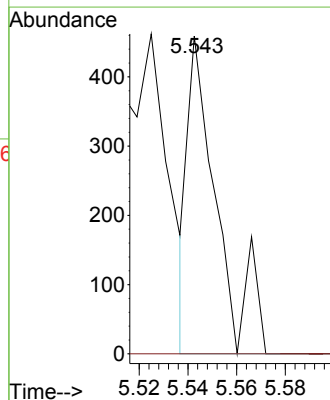
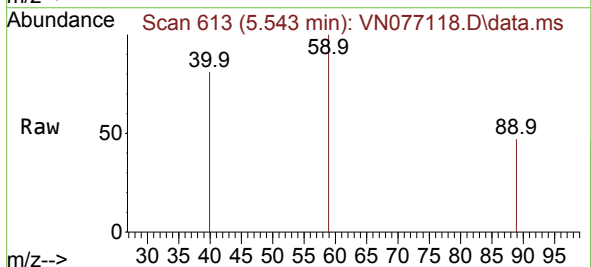
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-30.0-030823

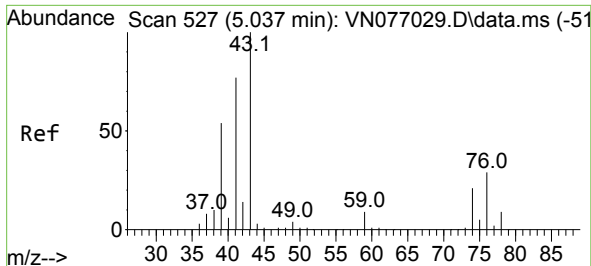
Tgt Ion: 64 Resp: 246  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.3 39.5#



#11  
Tert butyl alcohol  
Concen: 1.345 ug/l  
RT: 5.543 min Scan# 613  
Delta R.T. 0.006 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Tgt Ion: 59 Resp: 381  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#

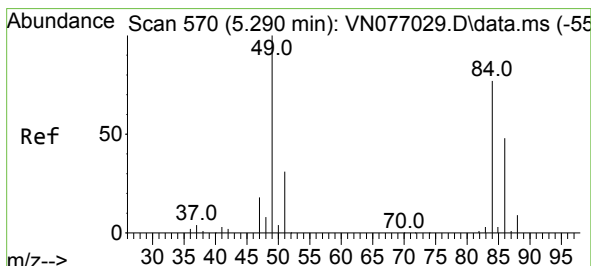
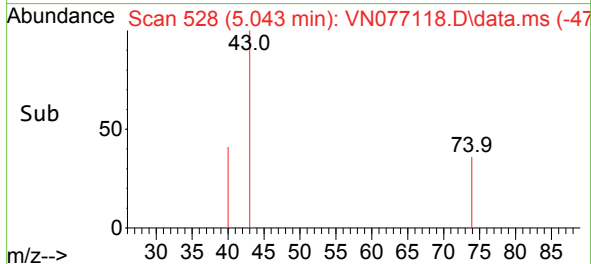
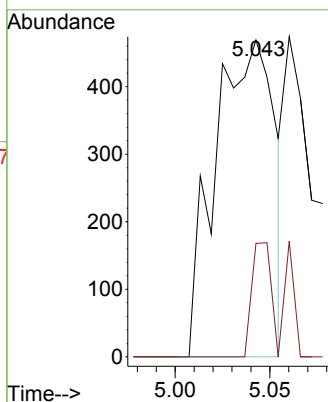
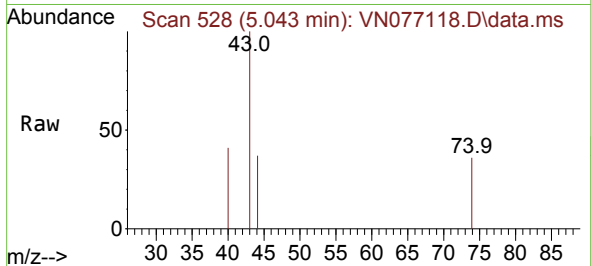




#18  
Methyl Acetate  
Concen: 0.314 ug/l  
RT: 5.043 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

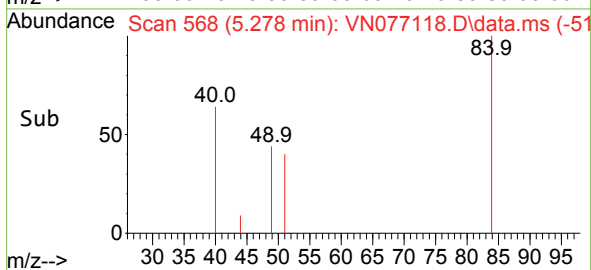
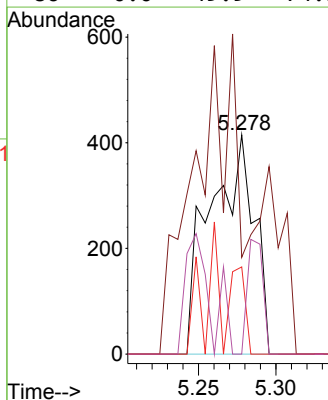
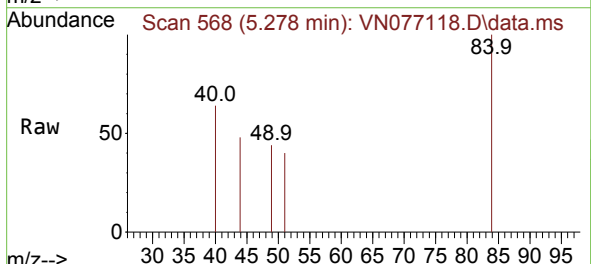
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-30.0-030823

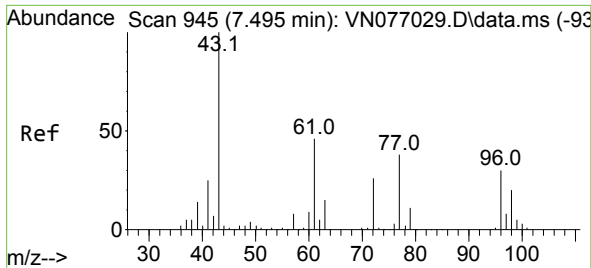
Tgt Ion: 43 Resp: 1024  
Ion Ratio Lower Upper  
43 100  
74 17.5 17.7 26.5#



#20  
Methylene Chloride  
Concen: 0.437 ug/l  
RT: 5.278 min Scan# 568  
Delta R.T. -0.012 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

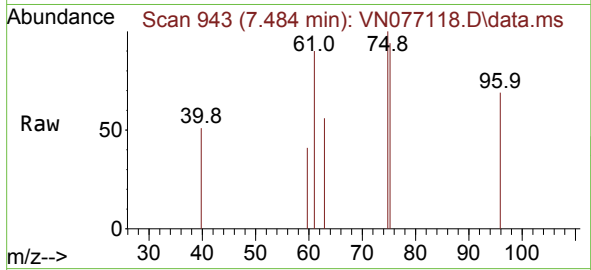
Tgt Ion: 84 Resp: 822  
Ion Ratio Lower Upper  
84 100  
49 0.0 103.8 155.6#  
51 39.8 32.3 48.5  
86 0.0 49.9 74.9#



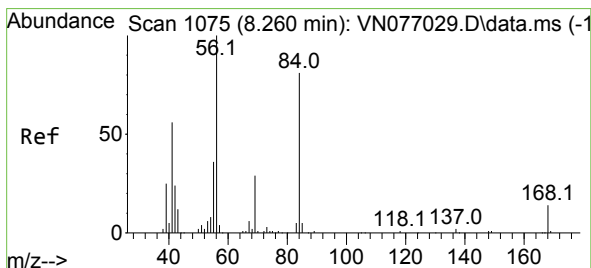
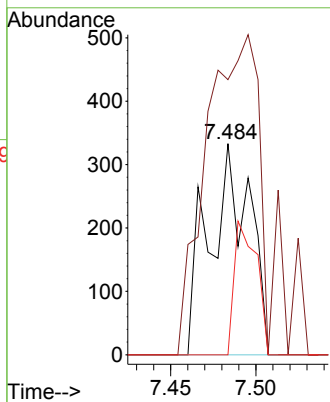
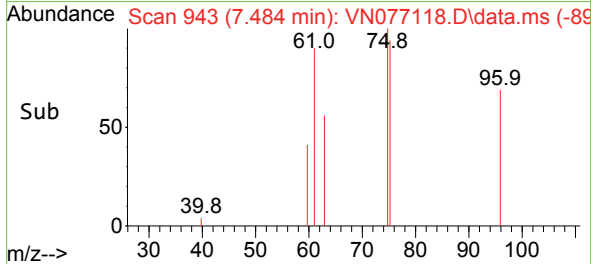


#27  
 cis-1,2-Dichloroethene  
 Concen: 0.298 ug/l  
 RT: 7.484 min Scan# 94  
 Delta R.T. -0.011 min  
 Lab File: VN077118.D  
 Acq: 22 Mar 2023 19:26

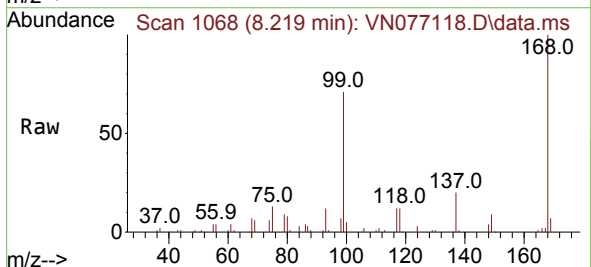
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CB-10-30.0-030823



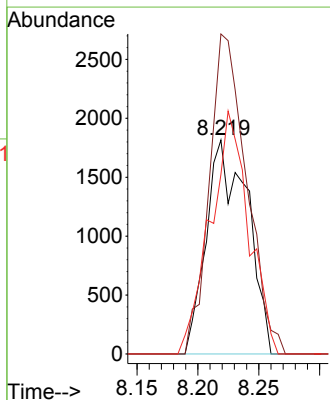
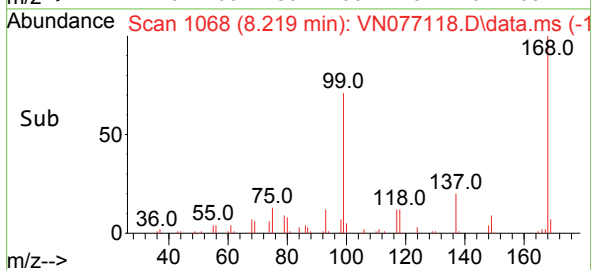
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 547   |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 224.1 | 0.0   | 315.4 |
| 98       | 34.9  | 0.0   | 128.6 |

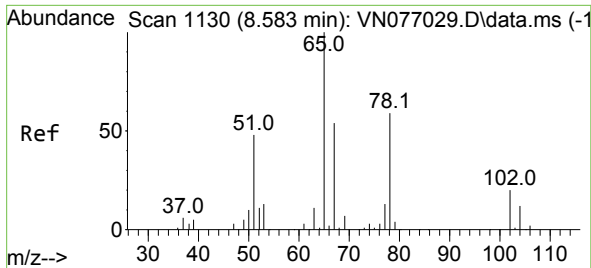


#31  
 Cyclohexane  
 Concen: 1.336 ug/l  
 RT: 8.219 min Scan# 1068  
 Delta R.T. -0.041 min  
 Lab File: VN077118.D  
 Acq: 22 Mar 2023 19:26



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 4250  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 149.6 | 22.8  | 34.2# |
| 84       | 83.9  | 64.7  | 97.1  |

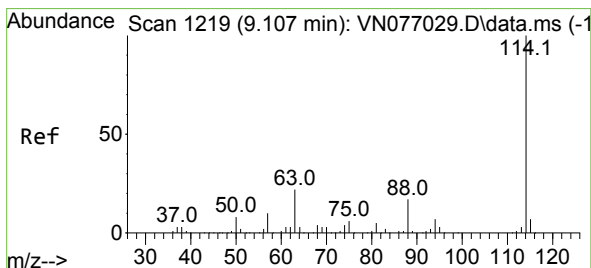
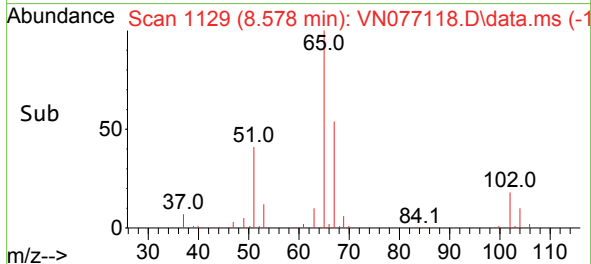
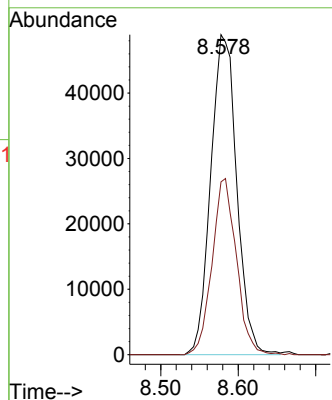
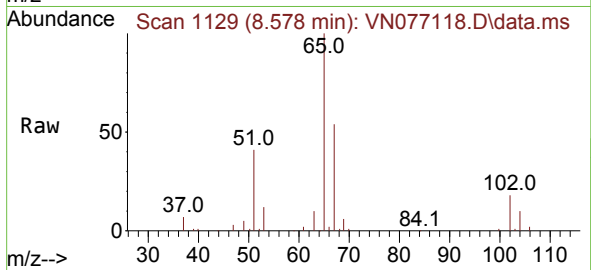




#33  
1,2-Dichloroethane-d4  
Concen: 58.713 ug/l  
RT: 8.578 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

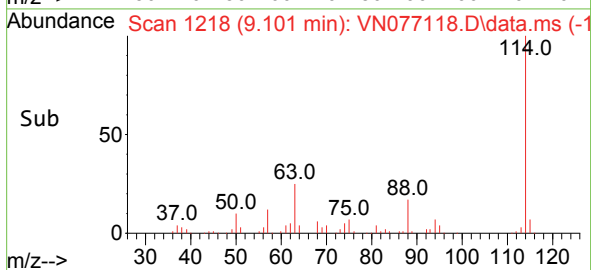
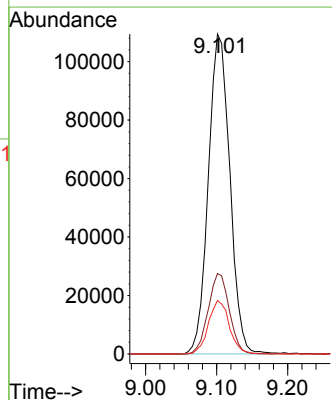
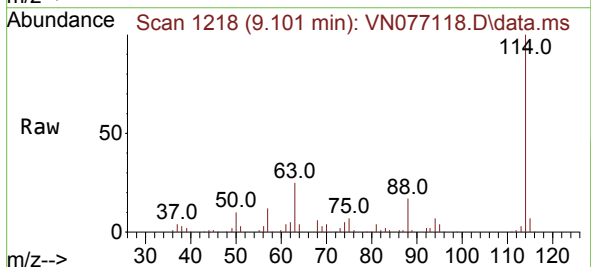
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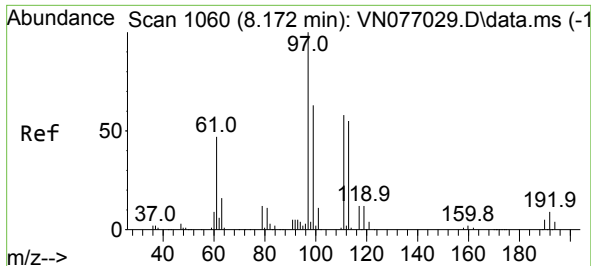
Tgt Ion: 65 Resp: 114130  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 105.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.101 min Scan# 1218  
Delta R.T. -0.006 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Tgt Ion: 114 Resp: 230448  
Ion Ratio Lower Upper  
114 100  
63 25.2 0.0 44.6  
88 16.7 0.0 33.8

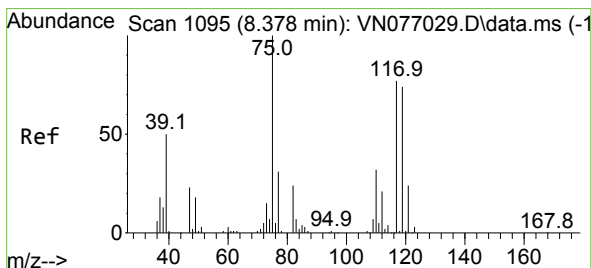
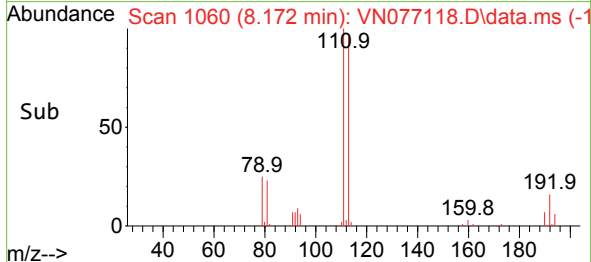
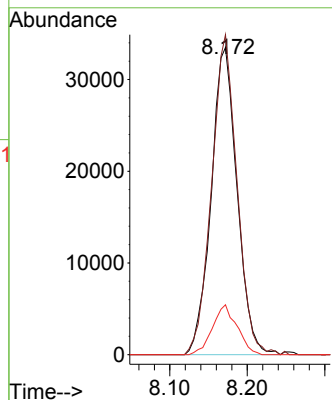
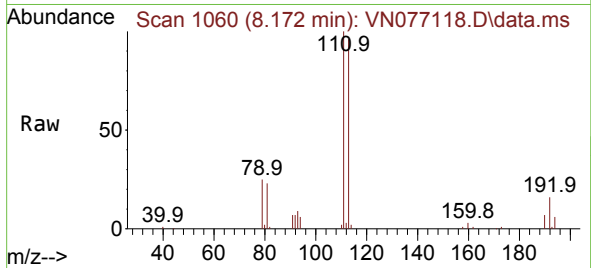




#35  
Dibromofluoromethane  
Concen: 48.297 ug/l  
RT: 8.172 min Scan# 1060  
Delta R.T. 0.000 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

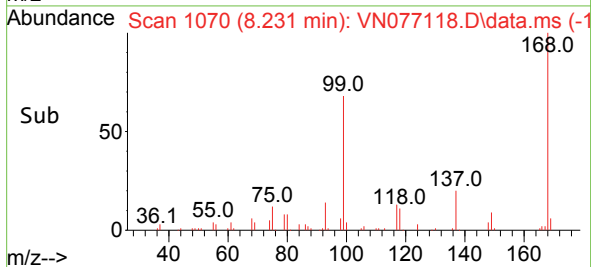
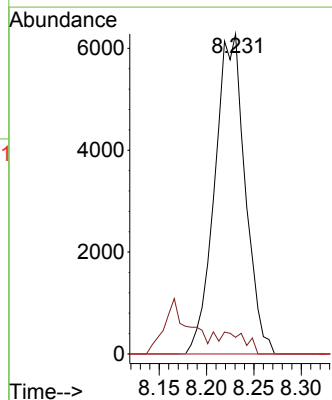
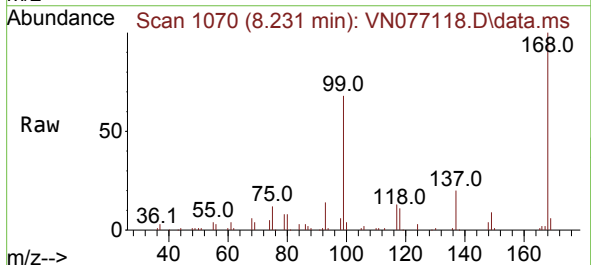
Instrument :  
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ClientSampleId :  
CB-10-30.0-030823

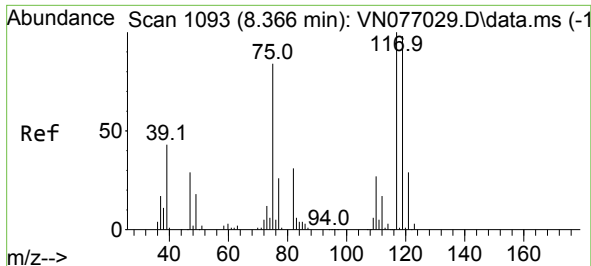
Tgt Ion:113 Resp: 77945  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.2 123.2  
192 15.4 13.0 19.6



#36  
1,1-Dichloropropene  
Concen: 5.562 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.147 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

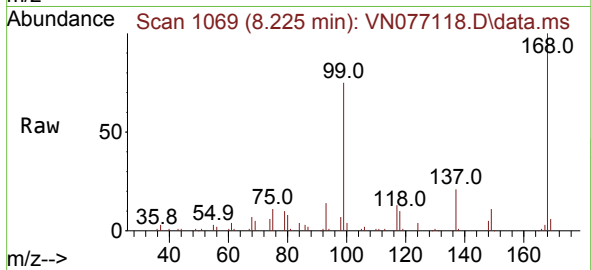
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Ion Ratio Lower Upper  
75 100  
110 0.0 15.9 47.7#  
77 0.0 24.3 36.5#



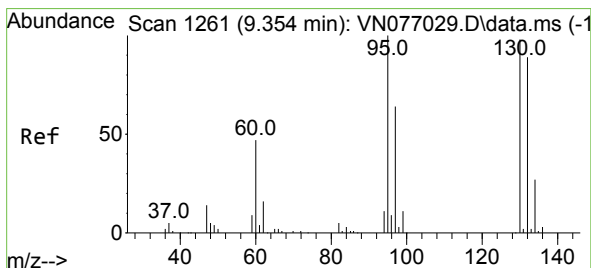
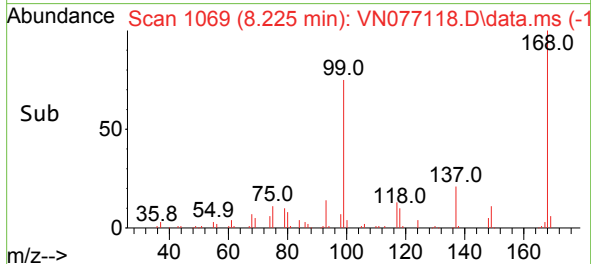
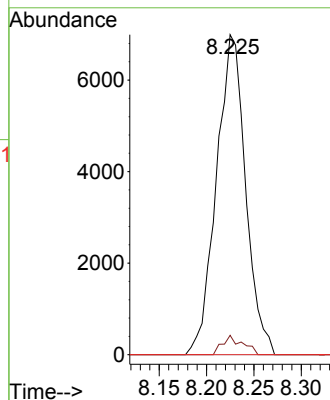


#38  
Carbon Tetrachloride  
Concen: 6.107 ug/l  
RT: 8.225 min Scan# 1069  
Delta R.T. -0.141 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-30.0-030823

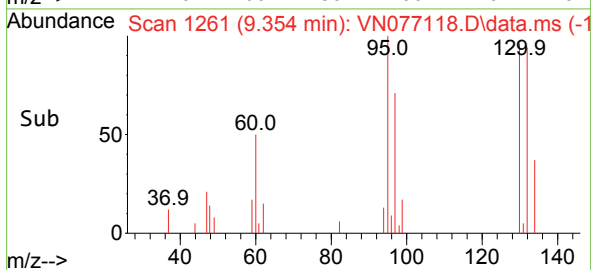
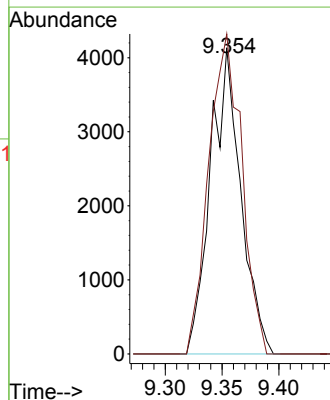
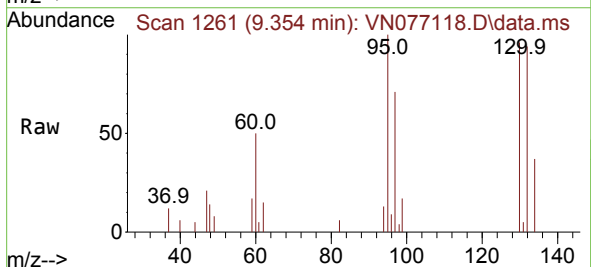


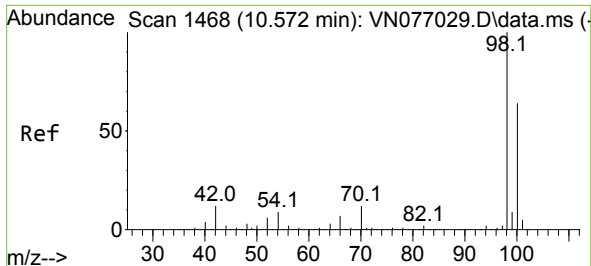
Tgt Ion:117 Resp: 14995  
Ion Ratio Lower Upper  
117 100  
119 6.1 78.2 117.2#  
121 0.0 23.2 34.8#



#44  
Trichloroethene  
Concen: 4.372 ug/l  
RT: 9.354 min Scan# 1261  
Delta R.T. 0.000 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Tgt Ion:130 Resp: 7677  
Ion Ratio Lower Upper  
130 100  
95 104.5 0.0 204.4

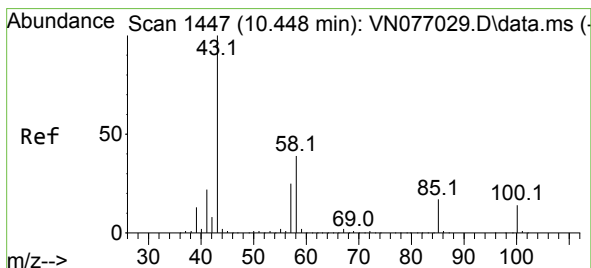
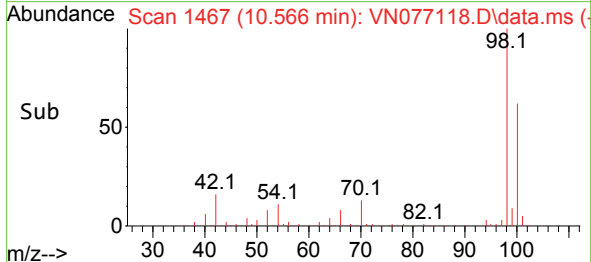
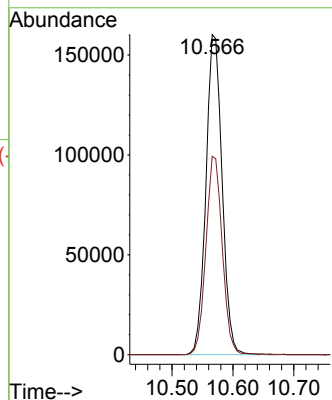
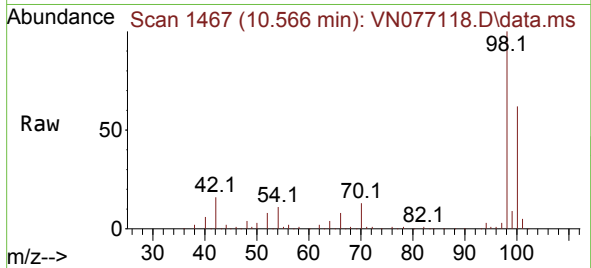




#50  
Toluene-d8  
Concen: 51.353 ug/l  
RT: 10.566 min Scan# 1467  
Delta R.T. -0.006 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

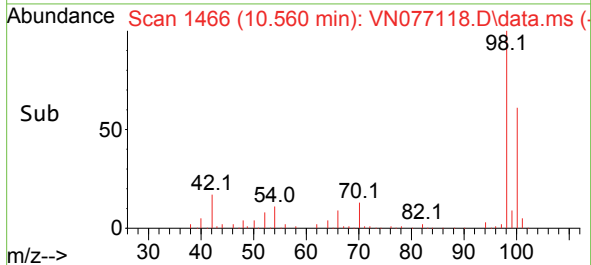
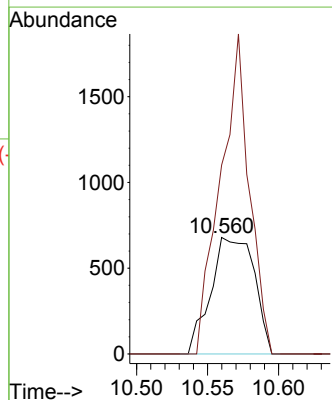
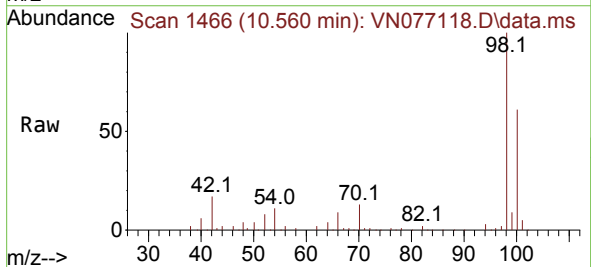
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-30.0-030823

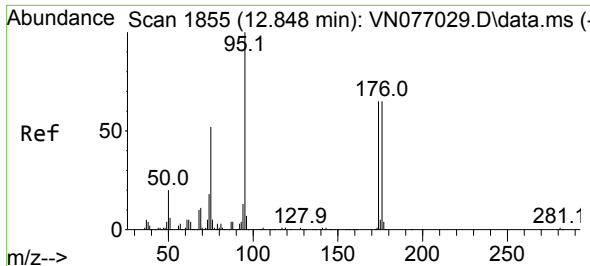
Tgt Ion: 98 Resp: 296043  
Ion Ratio Lower Upper  
98 100  
100 62.6 51.6 77.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.552 ug/l  
RT: 10.560 min Scan# 1466  
Delta R.T. 0.112 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Tgt Ion: 43 Resp: 1447  
Ion Ratio Lower Upper  
43 100  
58 182.6 31.1 46.7#

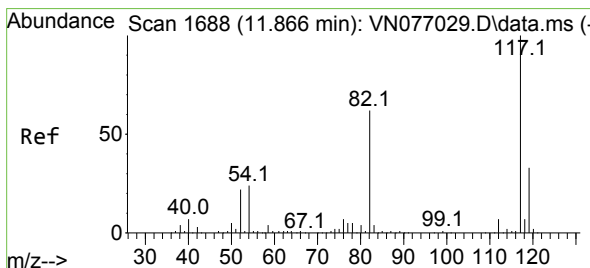
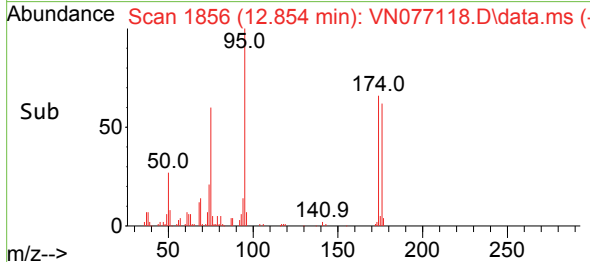
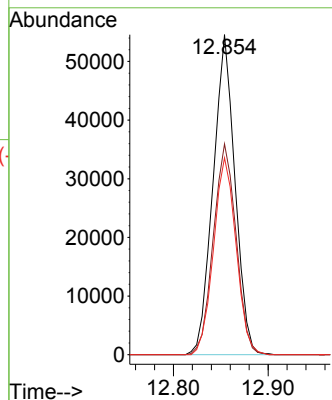
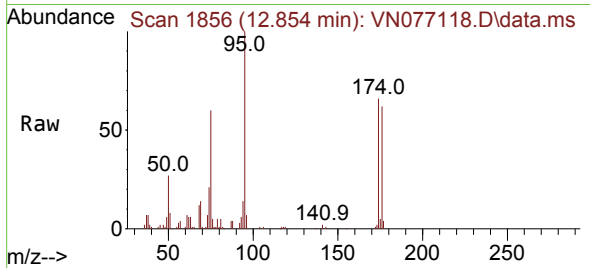




#62  
4-Bromofluorobenzene  
Concen: 42.990 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

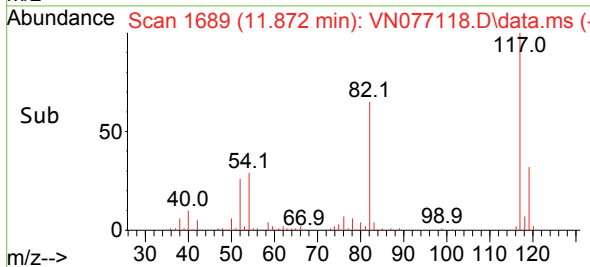
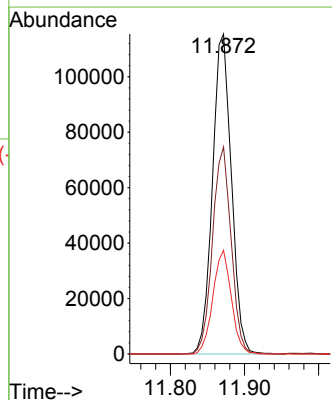
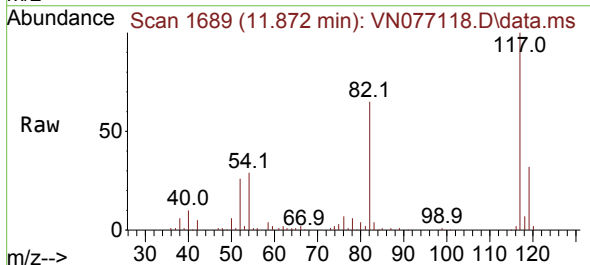
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-30.0-030823

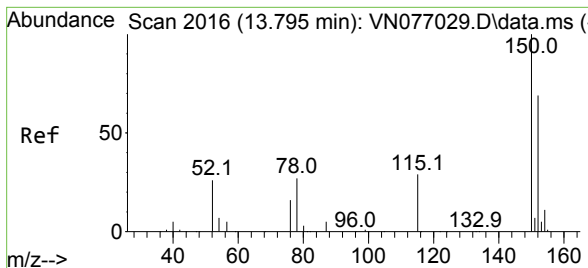
Tgt Ion: 95 Resp: 87576  
Ion Ratio Lower Upper  
95 100  
174 68.4 0.0 136.6  
176 63.3 0.0 130.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 1689  
Delta R.T. 0.006 min  
Lab File: VN077118.D  
Acq: 22 Mar 2023 19:26

Tgt Ion: 117 Resp: 204960  
Ion Ratio Lower Upper  
117 100  
82 64.7 49.4 74.0  
119 32.4 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: VN077118.D

Acq: 22 Mar 2023 19:26

Instrument :

MSVOA\_N

ClientSampleId :

CB-10-30.0-030823

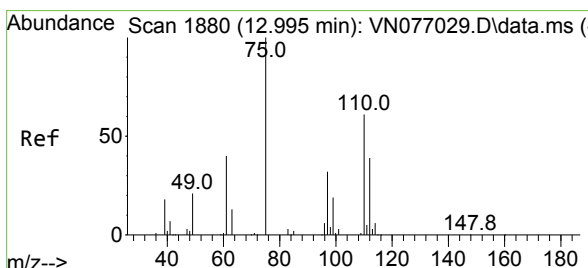
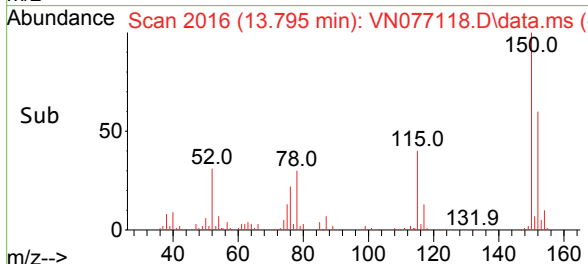
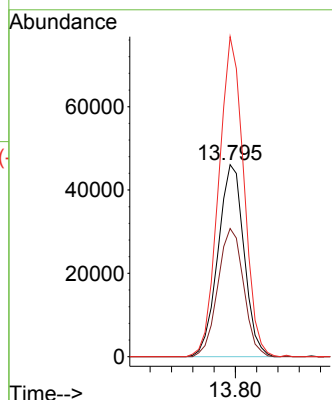
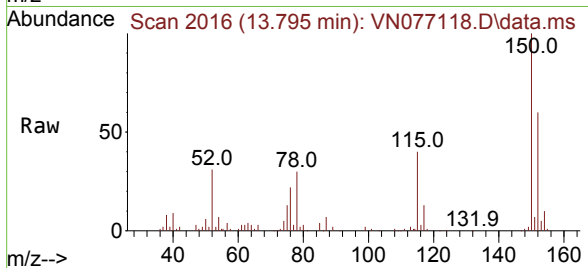
Tgt Ion:152 Resp: 78218

Ion Ratio Lower Upper

152 100

115 65.9 31.9 95.7

150 160.4 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 27.129 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077118.D

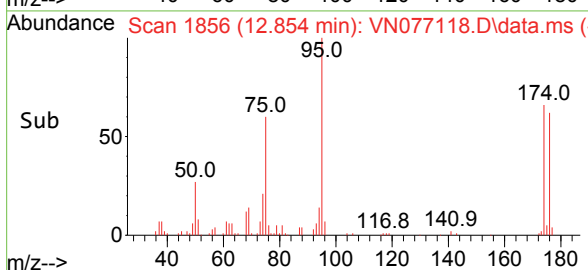
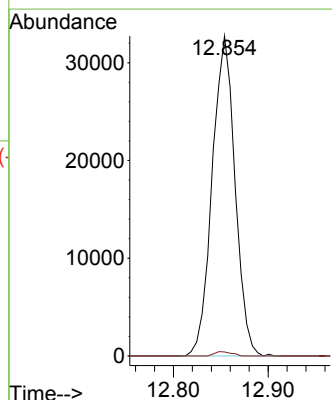
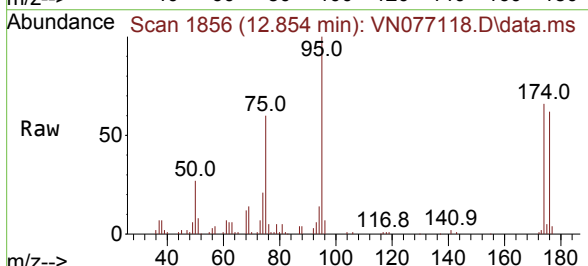
Acq: 22 Mar 2023 19:26

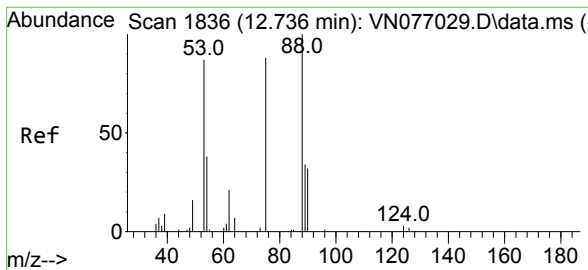
Tgt Ion: 75 Resp: 54887

Ion Ratio Lower Upper

75 100

77 1.0 107.3 322.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.673 ug/l  
 RT: 12.854 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN077118.D  
 Acq: 22 Mar 2023 19:26

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CB-10-30.0-030823

Tgt Ion: 75 Resp: 54887  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 80.8 121.2#  
 89 0.0 34.2 51.4#

