

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031723\  
 Data File : VN077031.D  
 Acq On : 17 Mar 2023 12:14  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Mar 18 02:27:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 18 02:17:37 2023  
 Response via : Initial Calibration

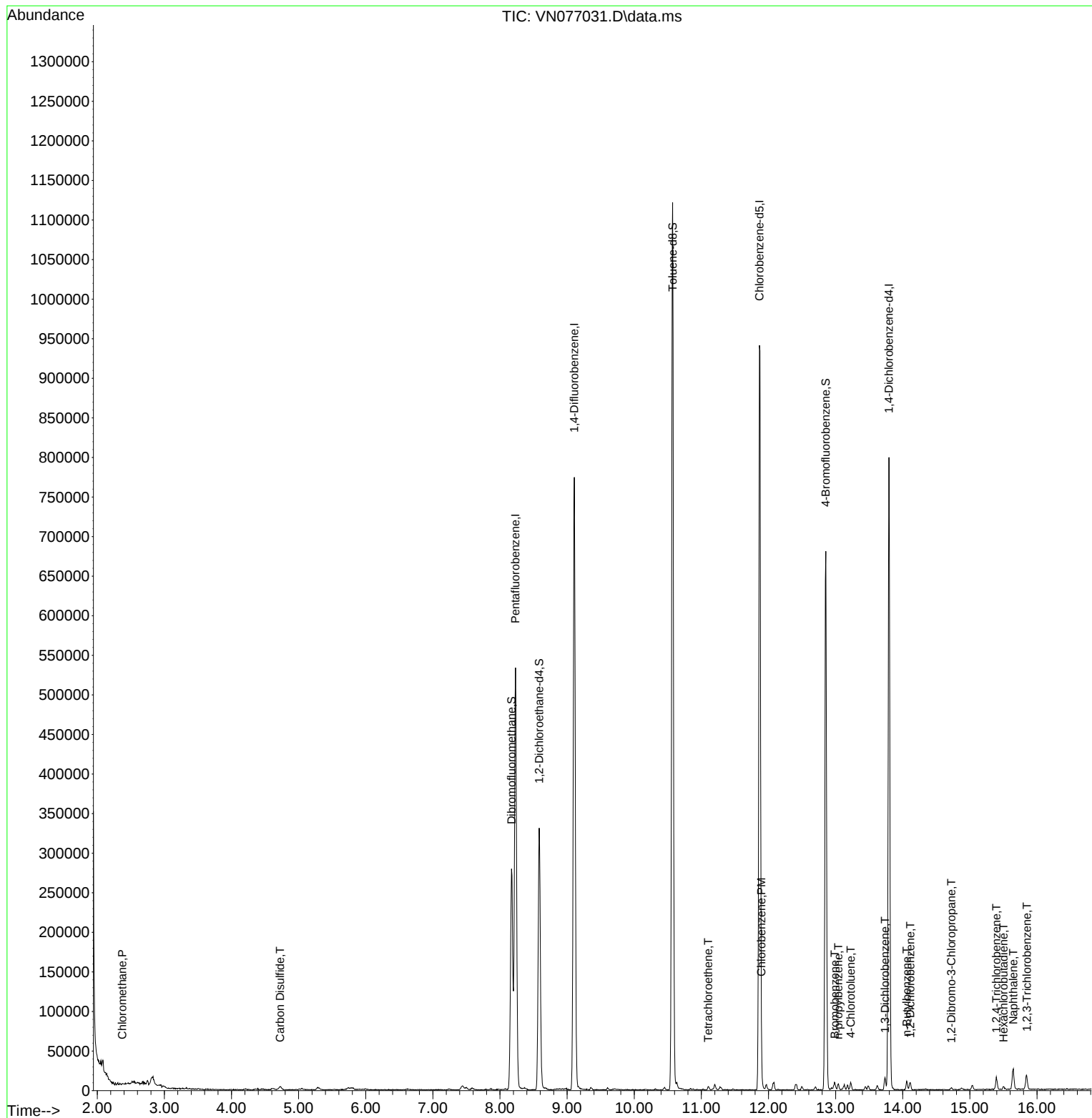
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 8.231          | 168  | 360741     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107          | 114  | 649655     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.866         | 117  | 544143     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 199029     | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 269812     | 46.825  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 93.640% |        |          |
| 35) Dibromofluoromethane      | 8.172          | 113  | 207785     | 45.671  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 91.340% |        |          |
| 50) Toluene-d8                | 10.572         | 98   | 775329     | 47.707  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 95.420% |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 246322     | 42.892  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 85.780% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 3) Chloromethane              | 2.372          | 50   | 979        | 0.269   | ug/l   | 94       |
| 17) Carbon Disulfide          | 4.725          | 76   | 8826       | 0.691   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.101         | 164  | 936        | 0.256   | ug/l # | 75       |
| 65) Chlorobenzene             | 11.895         | 112  | 3658       | 0.292   | ug/l # | 77       |
| 77) Bromobenzene              | 12.989         | 156  | 1810       | 0.453   | ug/l   | 98       |
| 78) n-propylbenzene           | 13.042         | 91   | 6171       | 0.300   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.224         | 91   | 6193       | 0.496   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.736         | 146  | 4210       | 0.557   | ug/l   | 86       |
| 89) n-Butylbenzene            | 14.060         | 91   | 6779       | 0.541   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 14.113         | 146  | 4138       | 0.550   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724         | 75   | 867        | 0.724   | ug/l   | 75       |
| 93) 1,2,4-Trichlorobenzene    | 15.395         | 180  | 5310       | 1.560   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.501         | 225  | 1008       | 0.538   | ug/l   | 76       |
| 95) Naphthalene               | 15.648         | 128  | 23921      | 3.652   | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.848         | 180  | 6736       | 1.973   | ug/l   | 100      |
| -----                         |                |      |            |         |        |          |

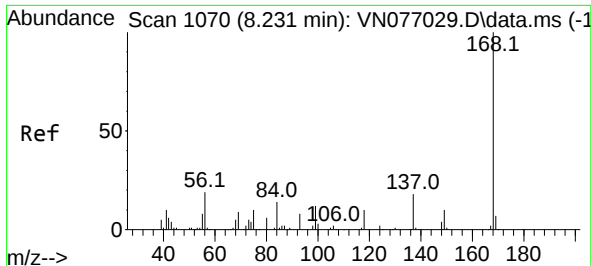
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031723\  
Data File : VN077031.D  
Acq On : 17 Mar 2023 12:14  
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Sample : IBLK  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

Quant Time: Mar 18 02:27:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 18 02:17:37 2023  
Response via : Initial Calibration

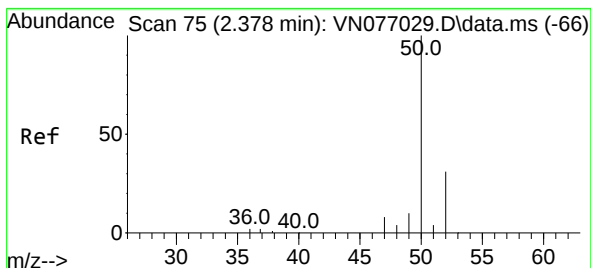
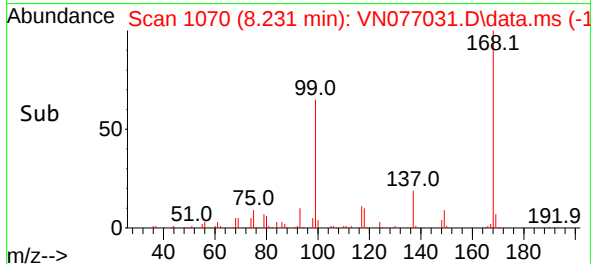
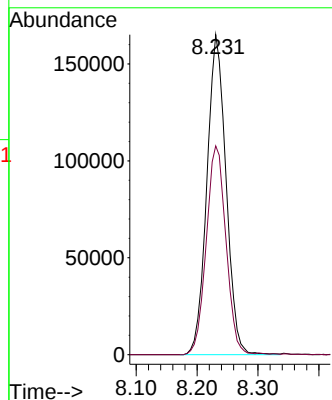
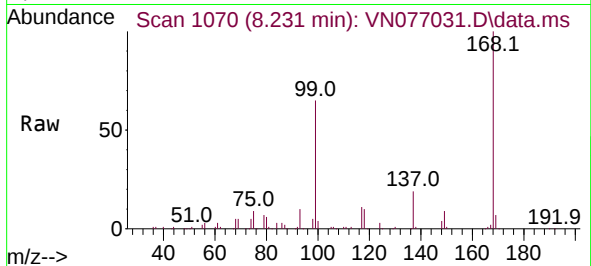




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

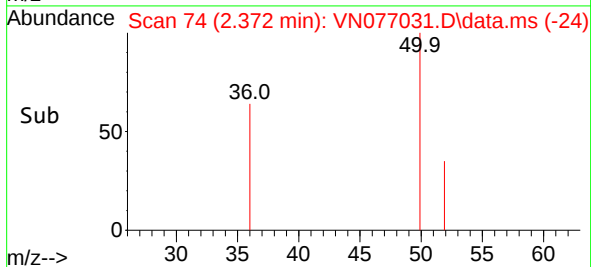
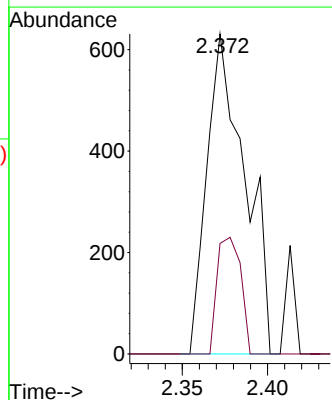
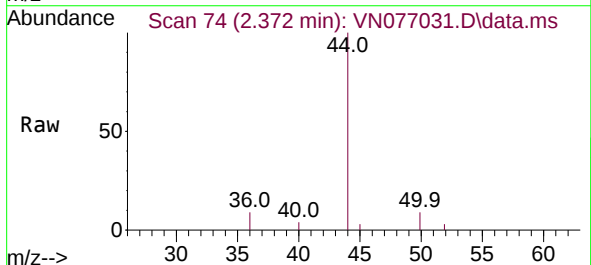
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

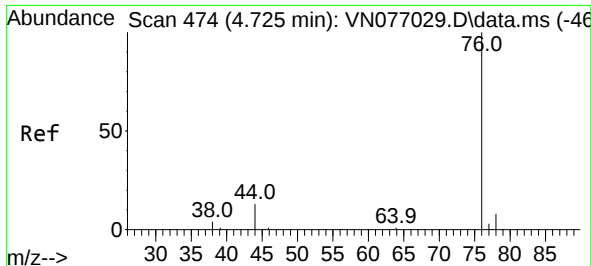
Tgt Ion:168 Resp: 360741  
Ion Ratio Lower Upper  
168 100  
99 65.3 53.9 80.9



#3  
Chloromethane  
Concen: 0.269 ug/l  
RT: 2.372 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion: 50 Resp: 979  
Ion Ratio Lower Upper  
50 100  
52 34.5 25.1 37.7

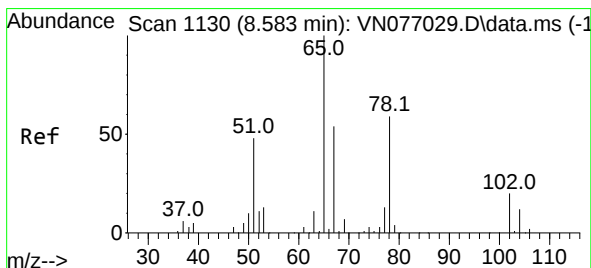
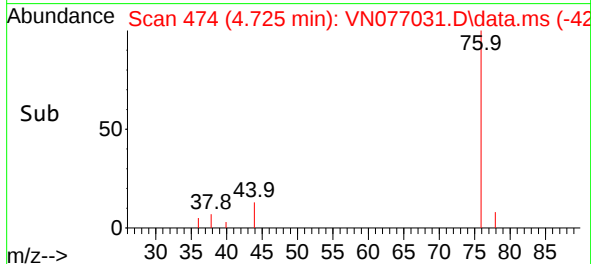
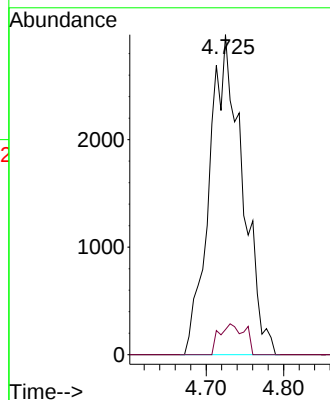
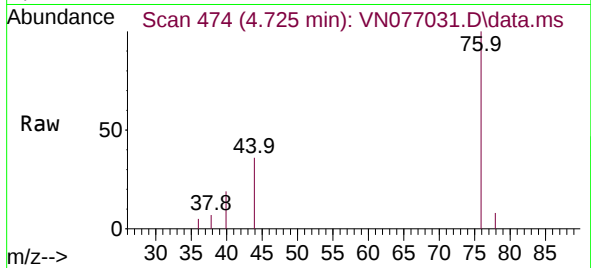




#17  
Carbon Disulfide  
Concen: 0.691 ug/l  
RT: 4.725 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

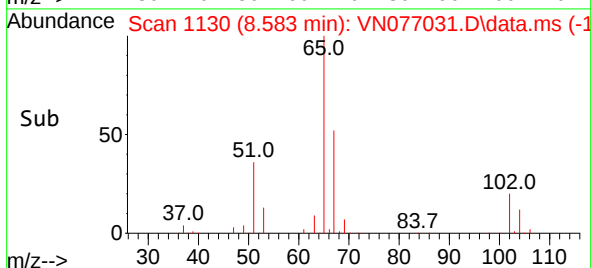
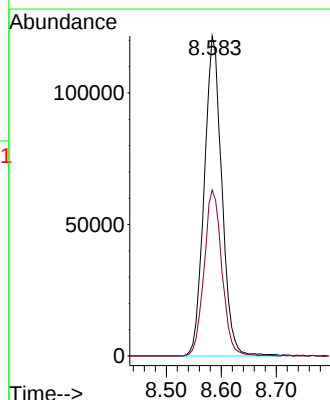
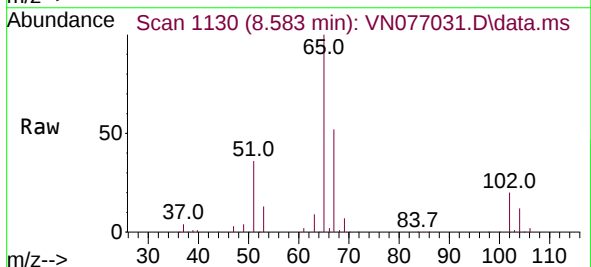
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

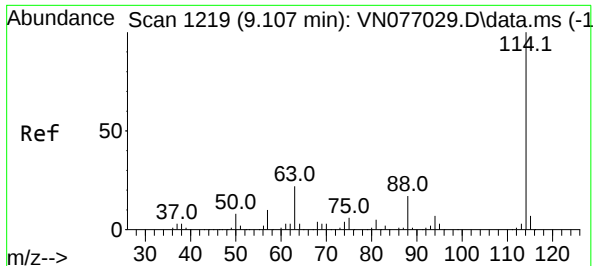
Tgt Ion: 76 Resp: 8826  
Ion Ratio Lower Upper  
76 100  
78 7.9 6.6 10.0



#33  
1,2-Dichloroethane-d4  
Concen: 46.825 ug/l  
RT: 8.583 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion: 65 Resp: 269812  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077031.D

Acq: 17 Mar 2023 12:14

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

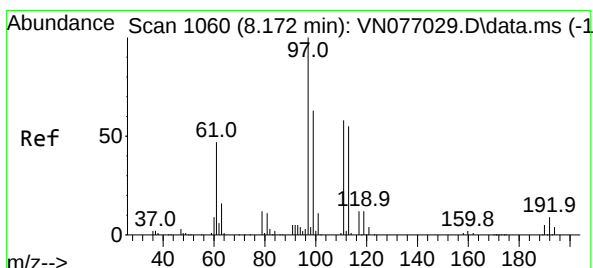
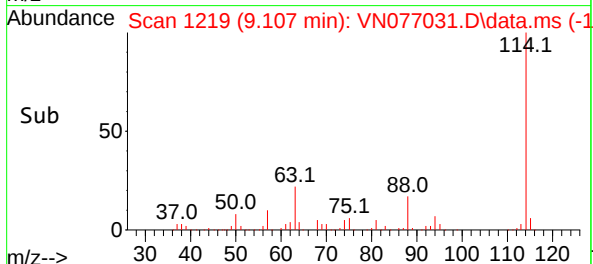
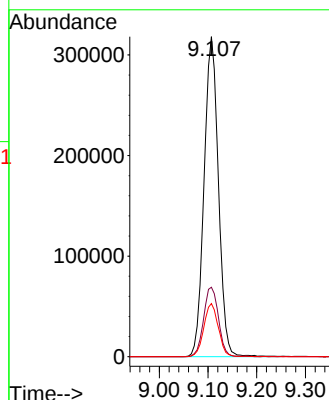
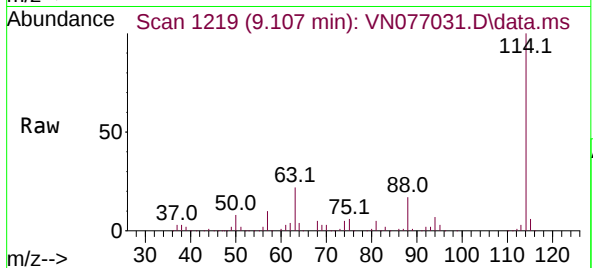
Tgt Ion:114 Resp: 649655

Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.6

88 16.6 0.0 33.8



#35

Dibromofluoromethane

Concen: 45.671 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077031.D

Acq: 17 Mar 2023 12:14

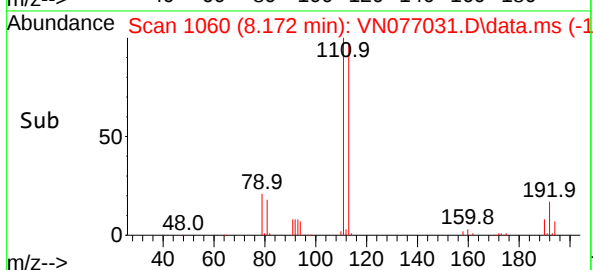
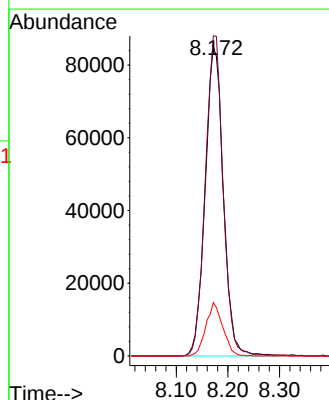
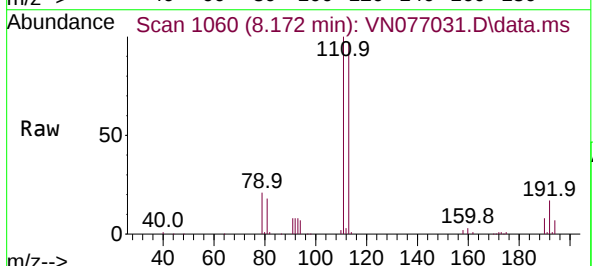
Tgt Ion:113 Resp: 207785

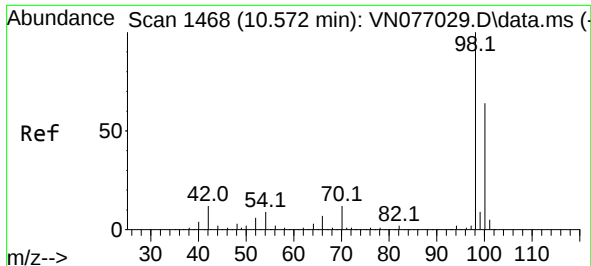
Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.2

192 16.0 13.0 19.6

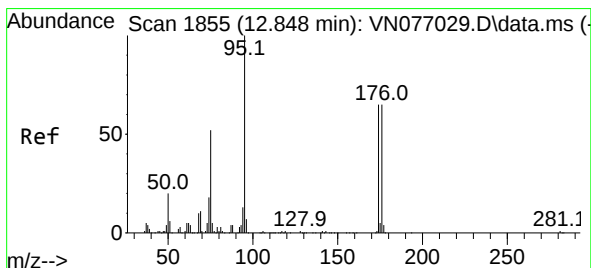
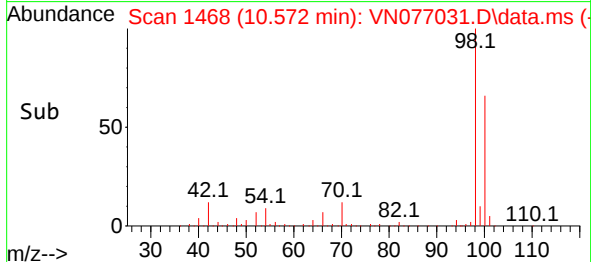
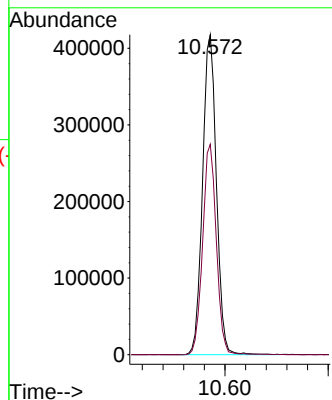
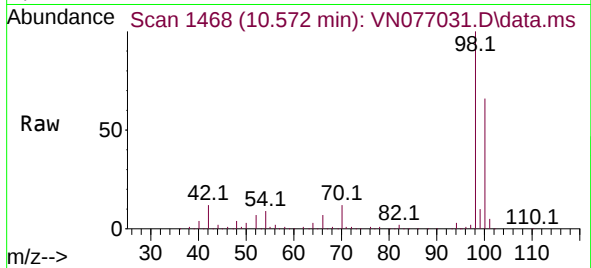




#50  
Toluene-d8  
Concen: 47.707 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

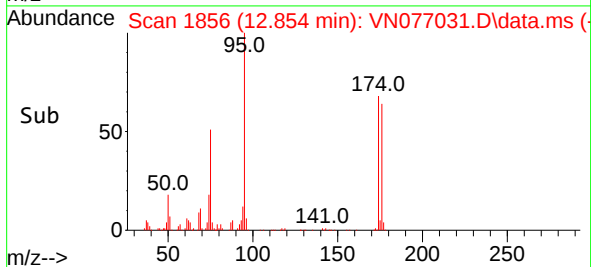
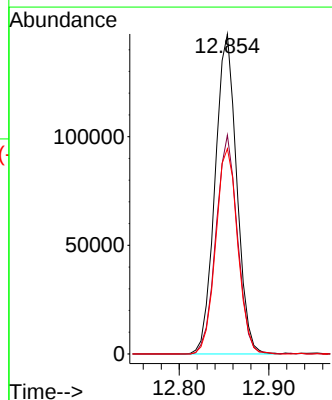
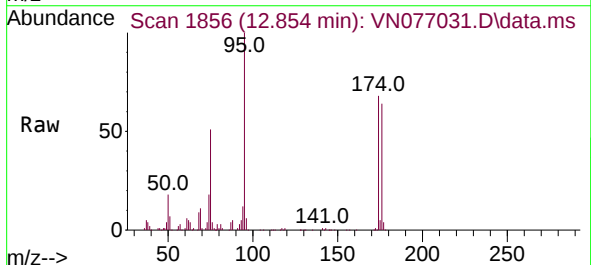
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

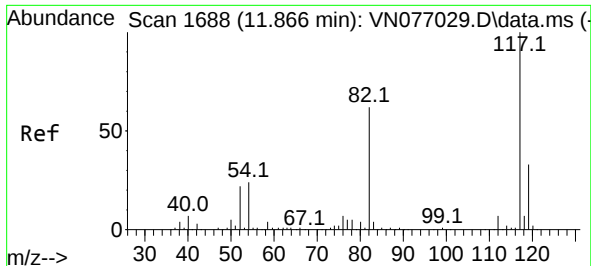
Tgt Ion: 98 Resp: 775329  
Ion Ratio Lower Upper  
98 100  
100 65.1 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 42.892 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion: 95 Resp: 246322  
Ion Ratio Lower Upper  
95 100  
174 67.7 0.0 136.6  
176 65.1 0.0 130.0

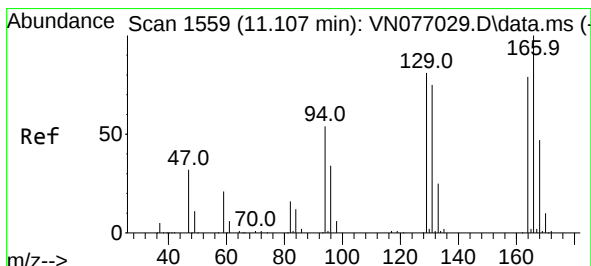
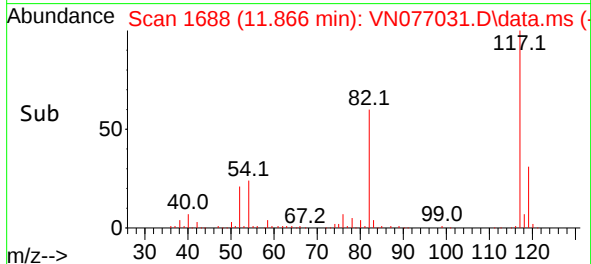
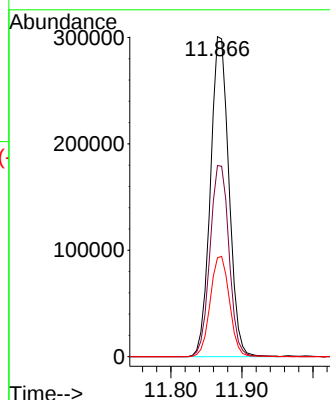
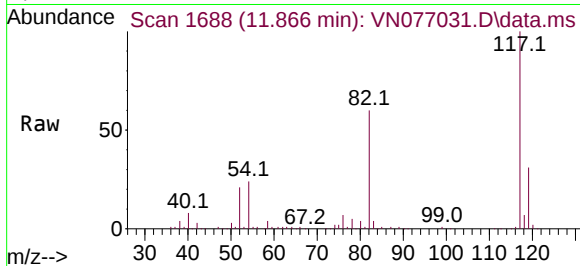




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.866 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

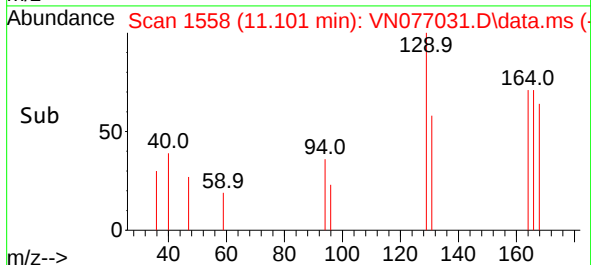
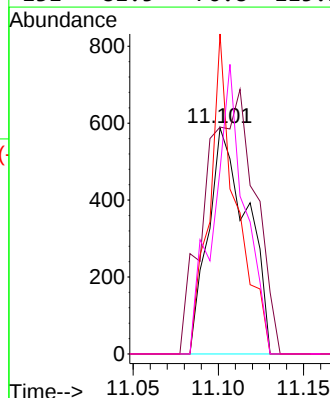
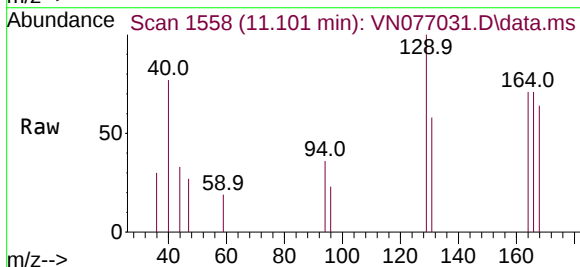
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MSVOA\_N  
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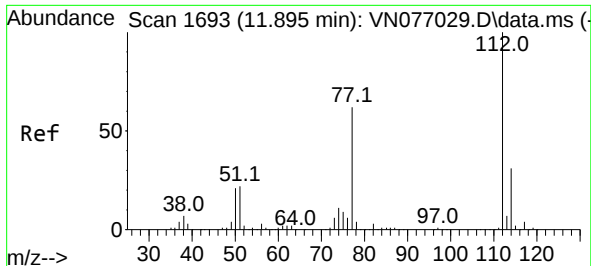
Tgt Ion:117 Resp: 544143  
Ion Ratio Lower Upper  
117 100  
82 59.7 49.4 74.0  
119 30.9 26.5 39.7



#64  
Tetrachloroethene  
Concen: 0.256 ug/l  
RT: 11.101 min Scan# 1558  
Delta R.T. -0.006 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion:164 Resp: 936  
Ion Ratio Lower Upper  
164 100  
166 100.3 101.9 152.9#  
129 141.5 82.6 123.8#  
131 81.5 76.8 115.2

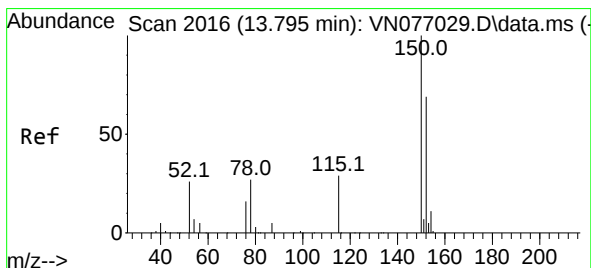
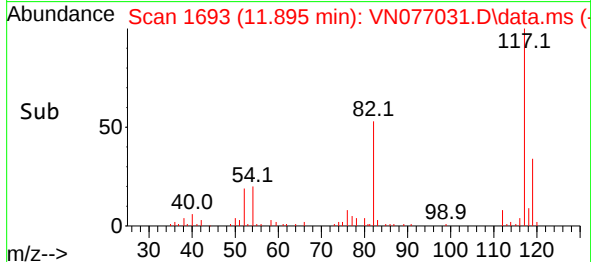
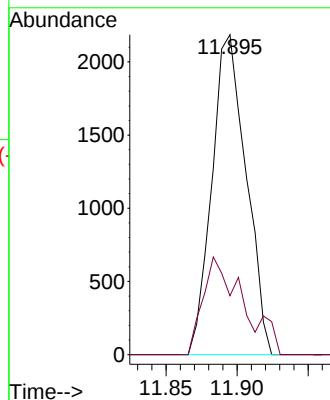
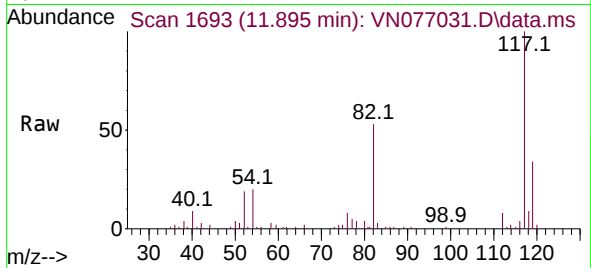




#65  
Chlorobenzene  
Concen: 0.292 ug/l  
RT: 11.895 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

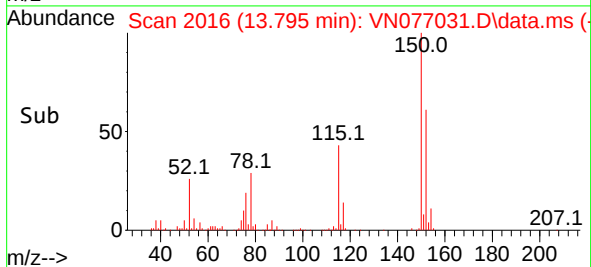
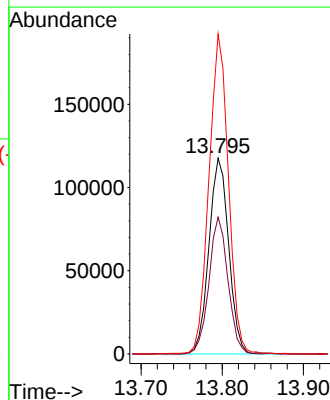
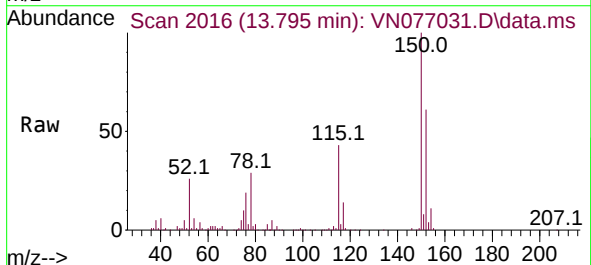
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

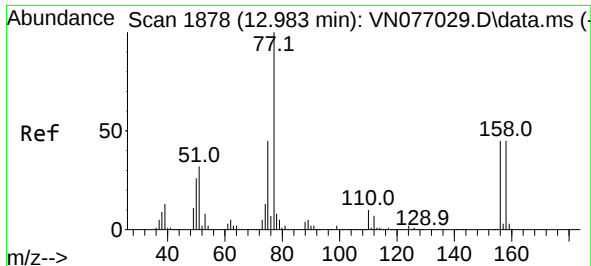
Tgt Ion:112 Resp: 3658  
Ion Ratio Lower Upper  
112 100  
114 18.4 24.8 37.2#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.795 min Scan# 2016  
Delta R.T. 0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion:152 Resp: 199029  
Ion Ratio Lower Upper  
152 100  
115 67.2 31.9 95.7  
150 160.9 0.0 348.0

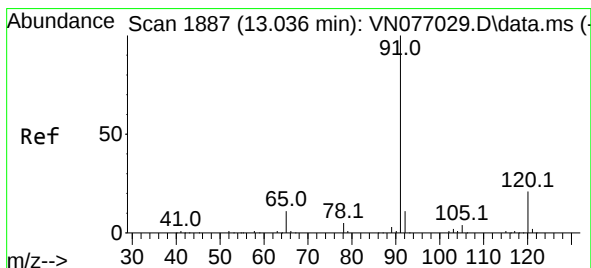
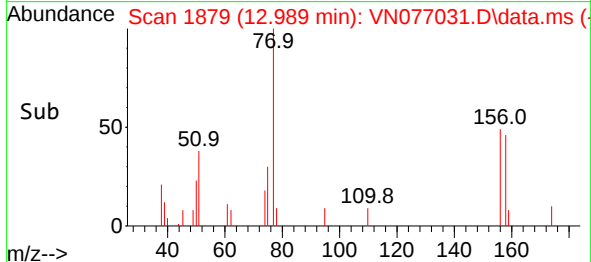
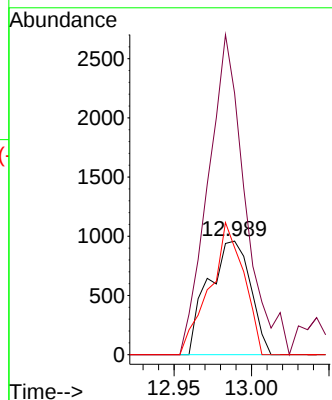
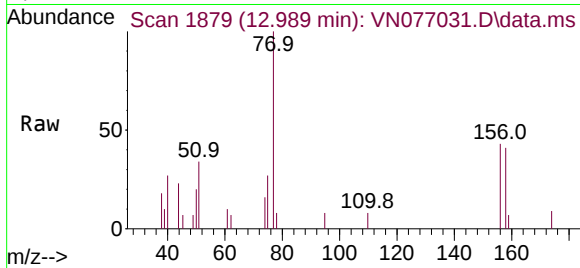




#77  
Bromobenzene  
Concen: 0.453 ug/l  
RT: 12.989 min Scan# 1879  
Delta R.T. 0.006 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

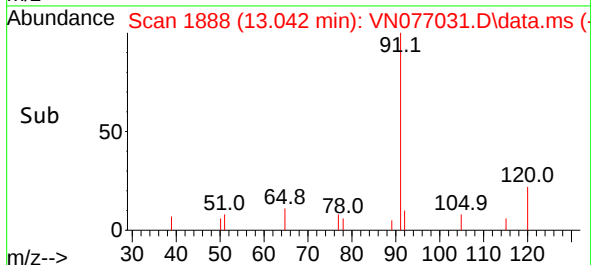
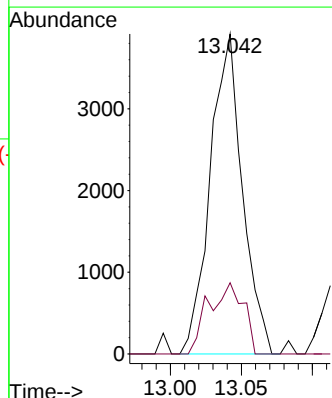
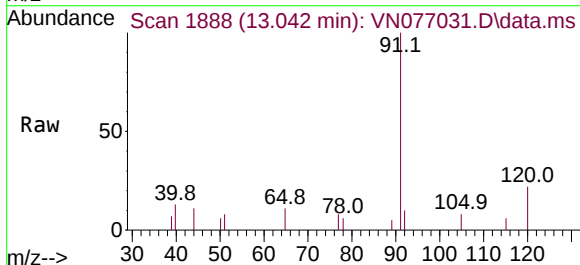
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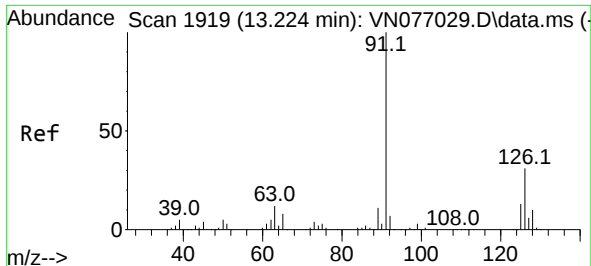
Tgt Ion:156 Resp: 1810  
Ion Ratio Lower Upper  
156 100  
77 247.2 124.8 374.3  
158 93.8 48.6 145.9



#78  
n-propylbenzene  
Concen: 0.300 ug/l  
RT: 13.042 min Scan# 1888  
Delta R.T. 0.006 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion: 91 Resp: 6171  
Ion Ratio Lower Upper  
91 100  
120 24.1 10.8 32.3

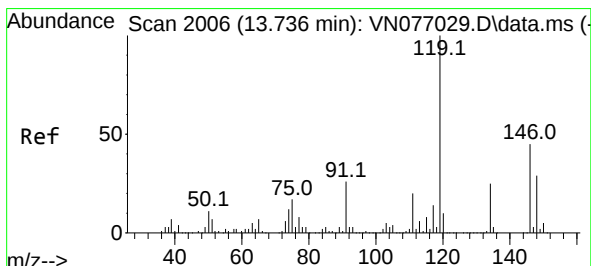
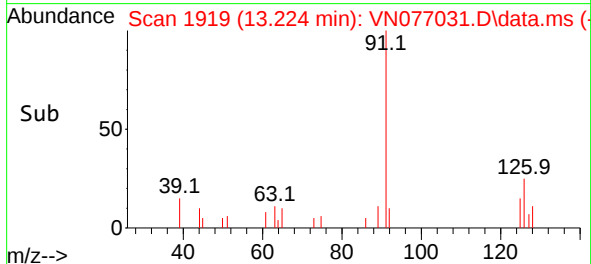
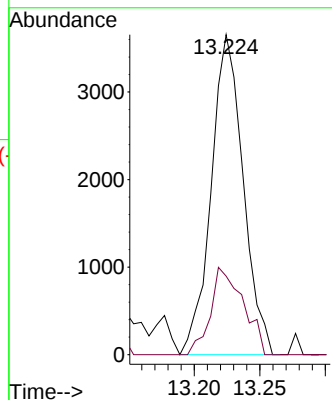
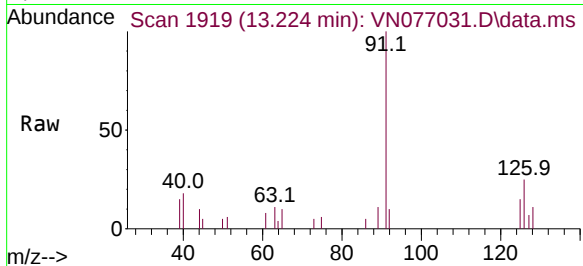




#82  
4-Chlorotoluene  
Concen: 0.496 ug/l  
RT: 13.224 min Scan# 1919  
Delta R.T. 0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

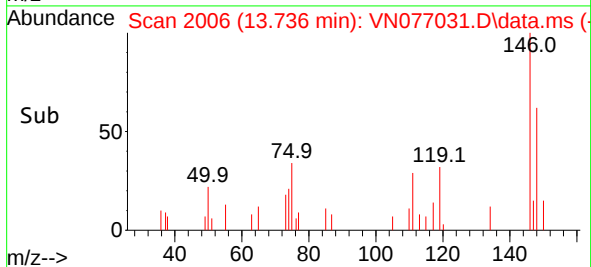
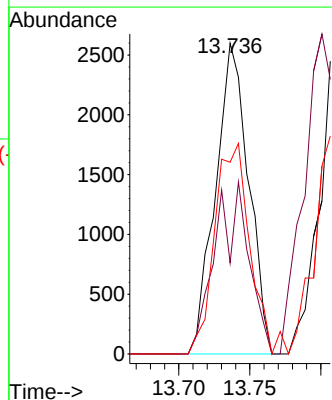
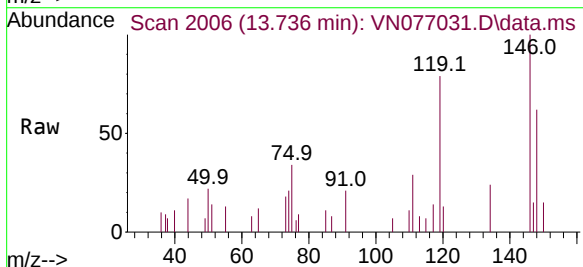
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

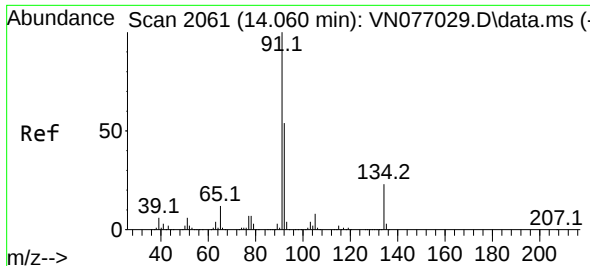
Tgt Ion: 91 Resp: 6193  
Ion Ratio Lower Upper  
91 100  
126 28.0 15.5 46.5



#87  
1,3-Dichlorobenzene  
Concen: 0.557 ug/l  
RT: 13.736 min Scan# 2006  
Delta R.T. 0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion: 146 Resp: 4210  
Ion Ratio Lower Upper  
146 100  
111 56.0 21.9 65.5  
148 72.2 32.1 96.5





#89

n-Butylbenzene

Concen: 0.541 ug/l

RT: 14.060 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VN077031.D

Acq: 17 Mar 2023 12:14

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

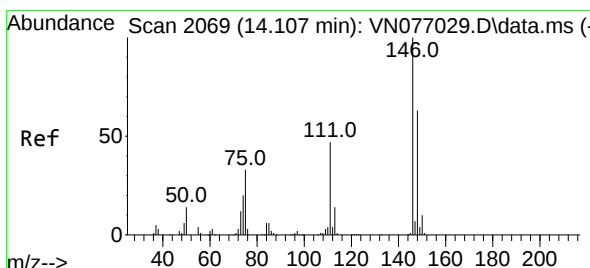
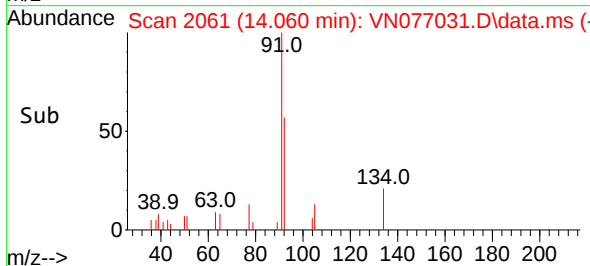
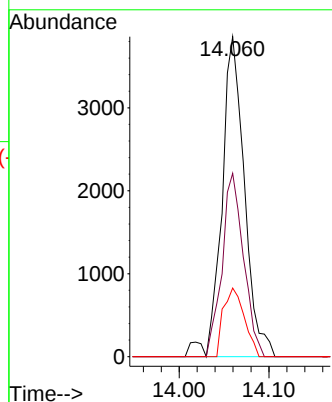
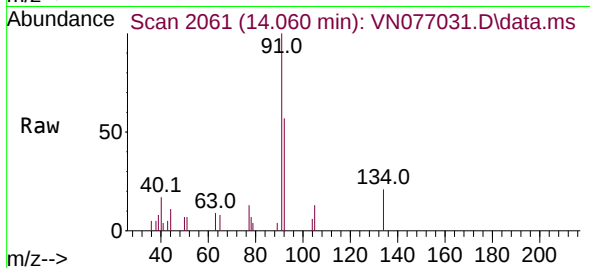
Tgt Ion: 91 Resp: 6779

Ion Ratio Lower Upper

91 100

92 54.2 26.5 79.5

134 19.7 11.7 35.1



#91

1,2-Dichlorobenzene

Concen: 0.550 ug/l

RT: 14.113 min Scan# 2070

Delta R.T. 0.006 min

Lab File: VN077031.D

Acq: 17 Mar 2023 12:14

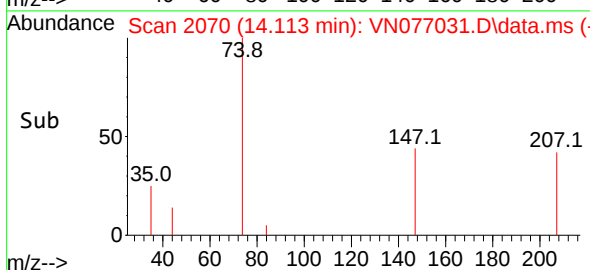
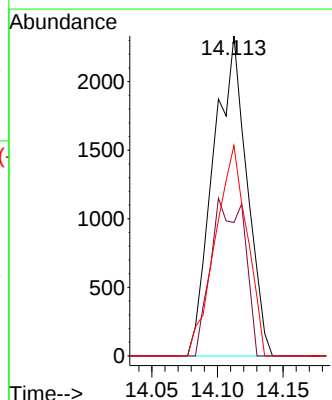
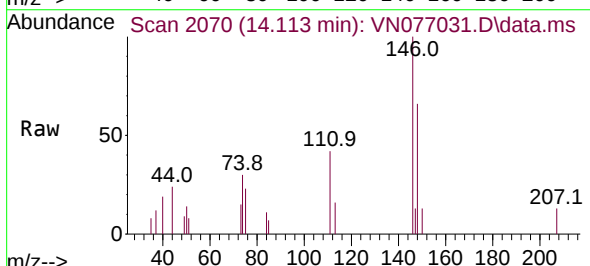
Tgt Ion:146 Resp: 4138

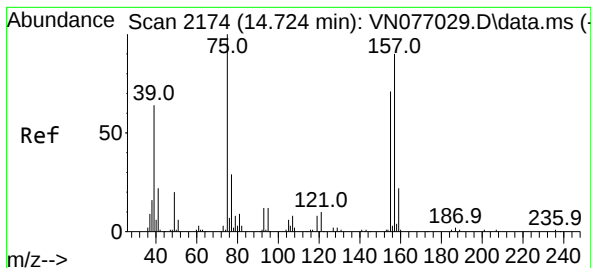
Ion Ratio Lower Upper

146 100

111 49.3 22.6 67.7

148 62.6 31.6 95.0

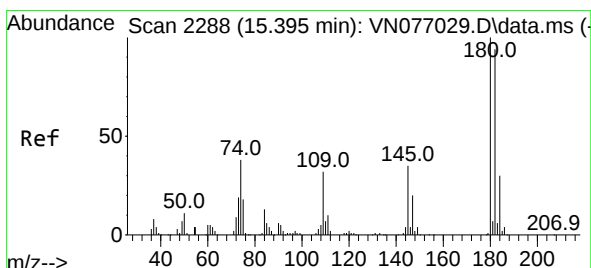
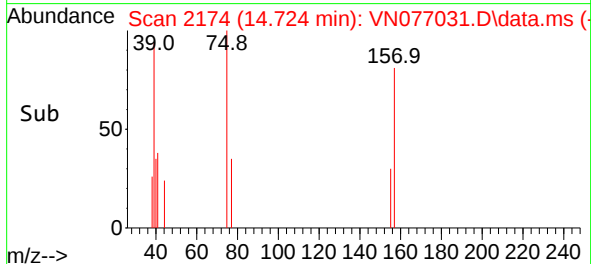
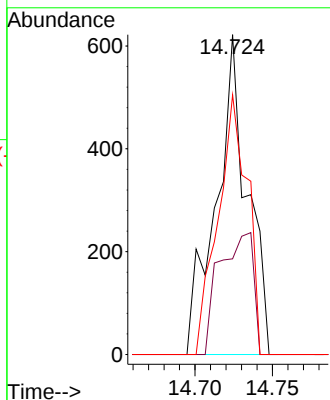
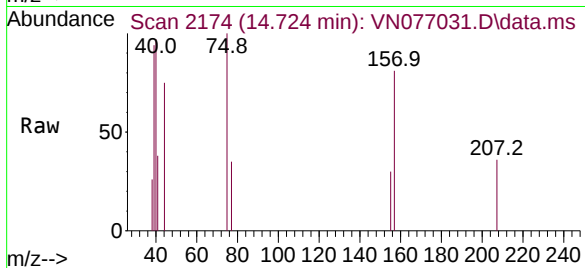




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.724 ug/l  
RT: 14.724 min Scan# 2174  
Delta R.T. -0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

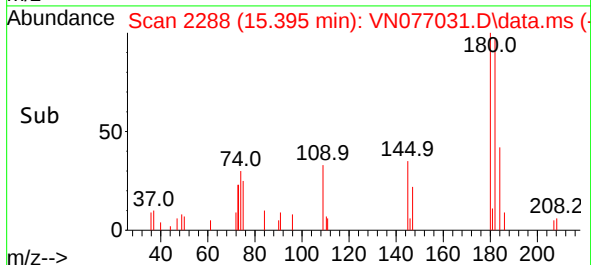
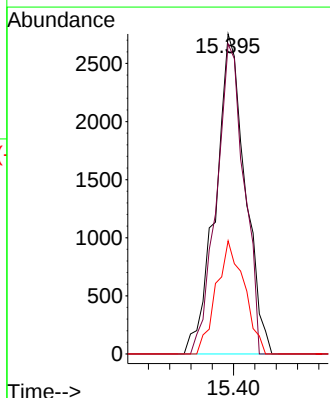
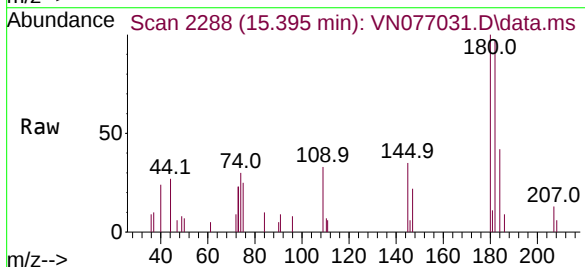
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

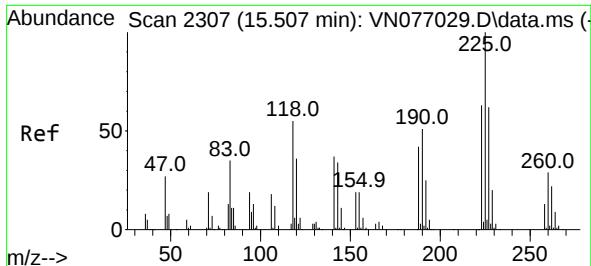
Tgt Ion: 75 Resp: 867  
Ion Ratio Lower Upper  
75 100  
155 41.3 36.1 108.3  
157 76.8 45.8 137.3



#93  
1,2,4-Trichlorobenzene  
Concen: 1.560 ug/l  
RT: 15.395 min Scan# 2288  
Delta R.T. 0.000 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion: 180 Resp: 5310  
Ion Ratio Lower Upper  
180 100  
182 90.4 47.3 141.9  
145 33.4 16.9 50.7

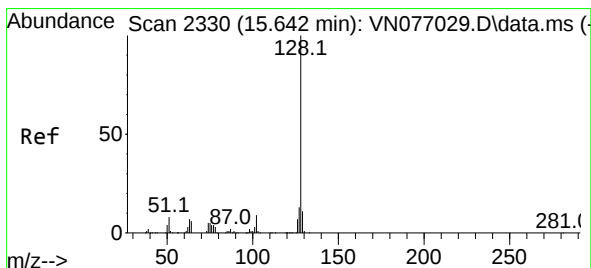
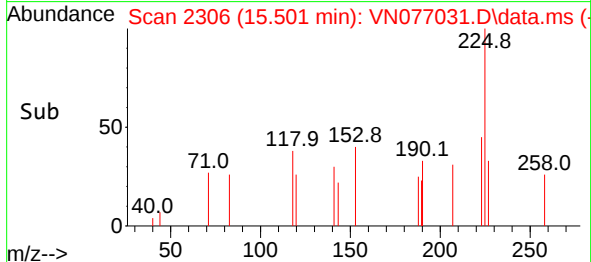
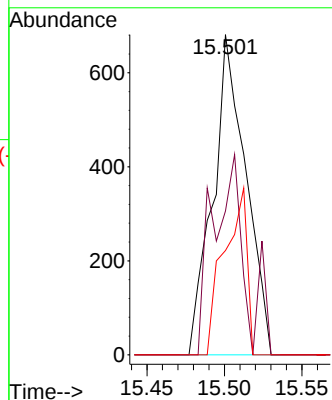
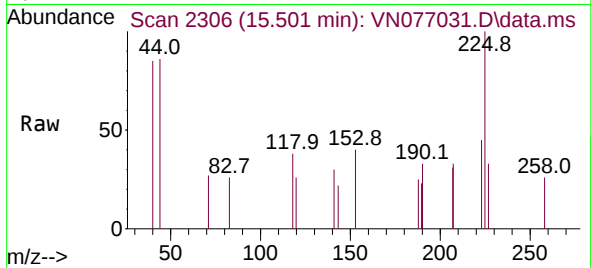




#94  
Hexachlorobutadiene  
Concen: 0.538 ug/l  
RT: 15.501 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

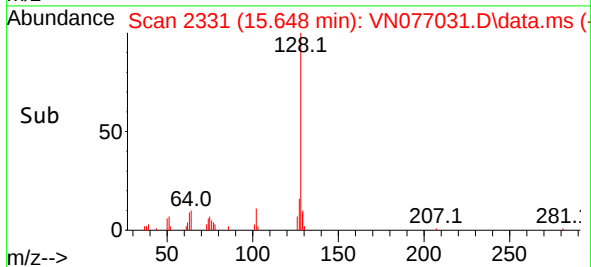
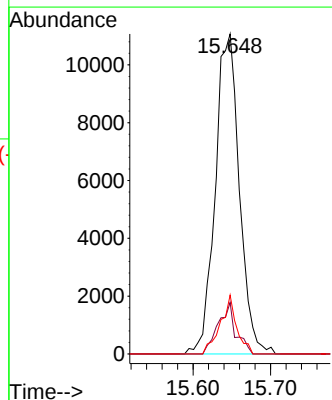
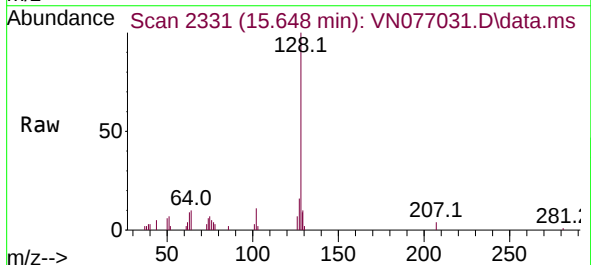
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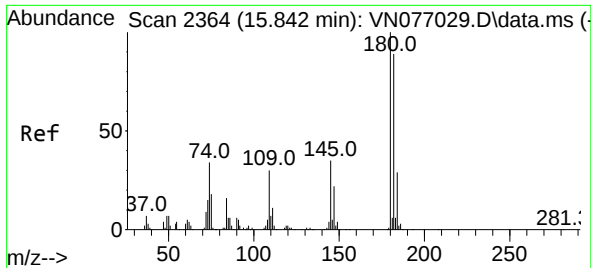
Tgt Ion:225 Resp: 1008  
Ion Ratio Lower Upper  
225 100  
223 52.4 31.6 95.0  
227 36.2 31.3 93.8



#95  
Naphthalene  
Concen: 3.652 ug/l  
RT: 15.648 min Scan# 2331  
Delta R.T. 0.006 min  
Lab File: VN077031.D  
Acq: 17 Mar 2023 12:14

Tgt Ion:128 Resp: 23921  
Ion Ratio Lower Upper  
128 100  
127 11.8 10.0 15.0  
129 12.4 8.6 13.0





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.973 ug/l  
 RT: 15.848 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN077031.D  
 Acq: 17 Mar 2023 12:14

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 6736  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 94.9  | 47.4  | 142.2 |
| 145      | 36.1  | 17.9  | 53.8  |

