

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011923\  
 Data File : VN076330.D  
 Acq On : 19 Jan 2023 18:07  
 Operator : JC\MD  
 Sample : 01224-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MH-F

Quant Time: Jan 20 01:00:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 Response via : Initial Calibration

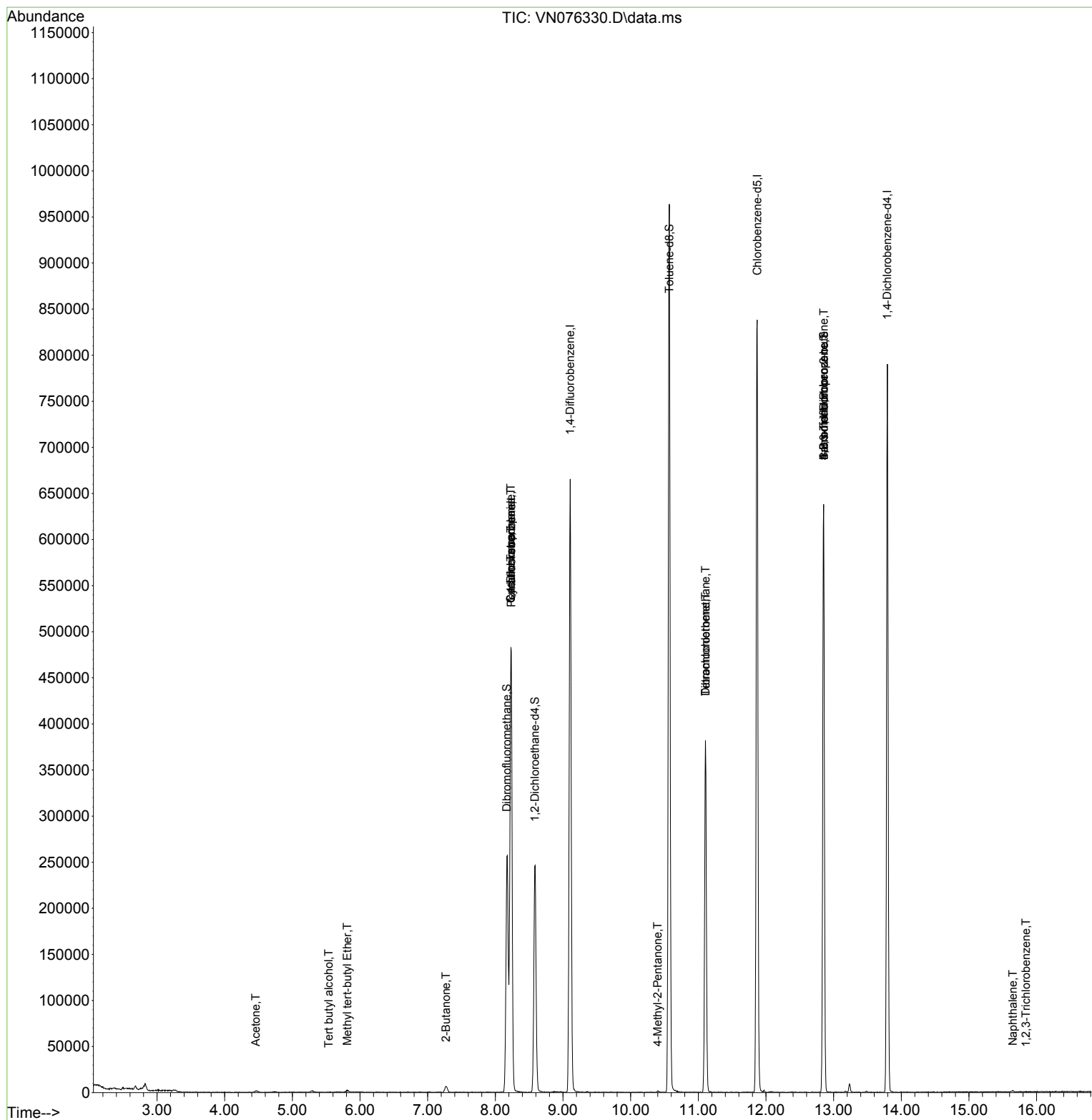
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.236  | 168   | 382521   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 603735   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 523861   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 217050   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 203812   | 47.586    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 95.180%  |
| 35) Dibromofluoromethane      | 8.171  | 113   | 182050   | 48.205    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 96.400%  |
| 50) Toluene-d8                | 10.571 | 98    | 689520   | 49.437    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 98.880%  |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 213598   | 46.912    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 93.820%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.536  | 59    | 237      | 0.414     | ug/l # | 72       |
| 16) Acetone                   | 4.459  | 43    | 1549     | 1.055     | ug/l # | 41       |
| 19) Methyl tert-butyl Ether   | 5.812  | 73    | 2904     | 0.243     | ug/l # | 91       |
| 20) Methylene Chloride        | 5.300  | 84    | 1474     | Below Cal | #      | 79       |
| 25) 2-Butanone                | 7.271  | 43    | 859      | 0.410     | ug/l # | 40       |
| 31) Cyclohexane               | 8.230  | 56    | 7122     | 1.082     | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 28098    | 5.236     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 36754    | 6.142     | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.400 | 43    | 933      | 0.227     | ug/l # | 32       |
| 60) Dibromochloromethane      | 11.106 | 129   | 85999    | 19.917    | ug/l # | 11       |
| 64) Tetrachloroethene         | 11.106 | 164   | 90535    | 19.164    | ug/l   | 94       |
| 71) Bromoform                 | 12.853 | 173   | 1586     | 0.533     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 111740   | 27.839    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 111740   | 85.656    | ug/l # | 11       |
| 95) Naphthalene               | 15.647 | 128   | 1981     | 2.008     | ug/l # | 73       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180   | 56       | 1.169     | ug/l # | 12       |
| -----                         |        |       |          |           |        |          |

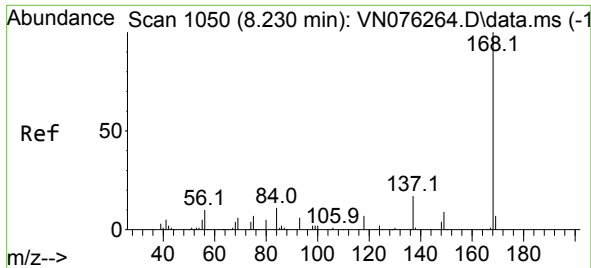
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011923\  
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Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F

Quant Time: Jan 20 01:00:17 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 17 03:59:22 2023  
Response via : Initial Calibration

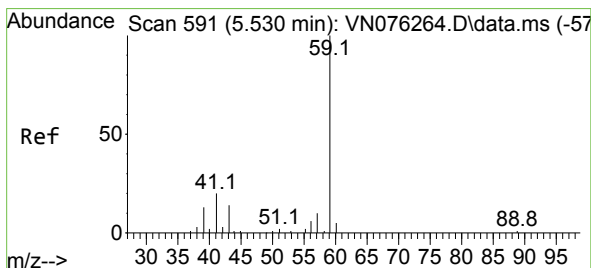
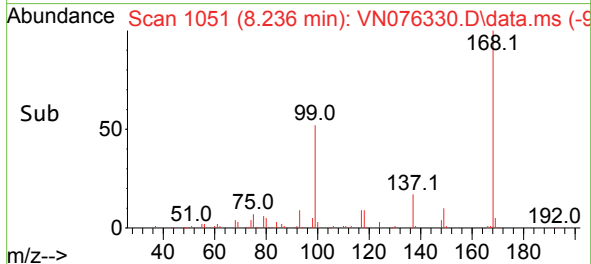
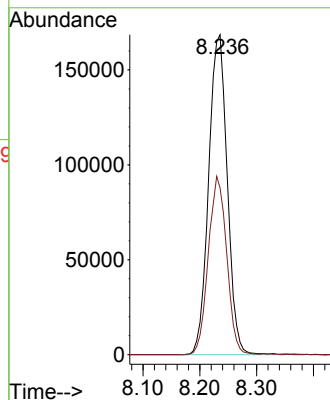
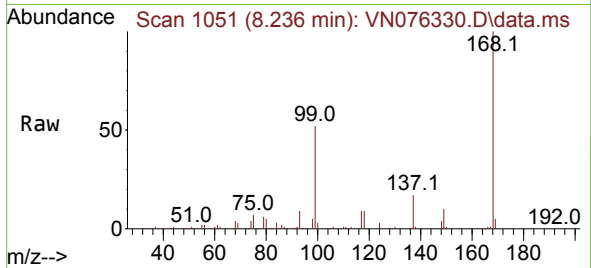




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.236 min Scan# 1051  
Delta R.T. 0.006 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

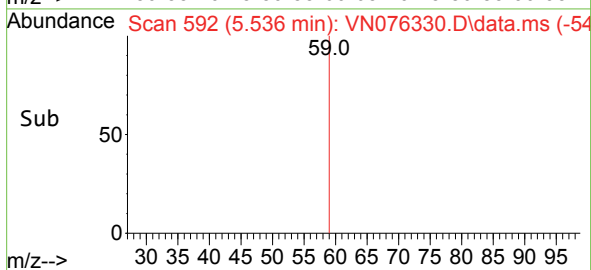
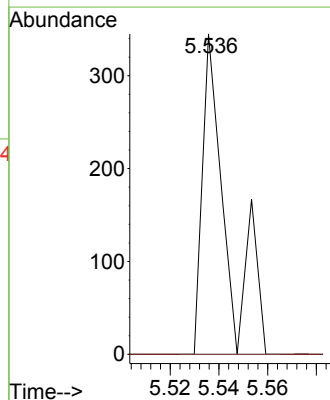
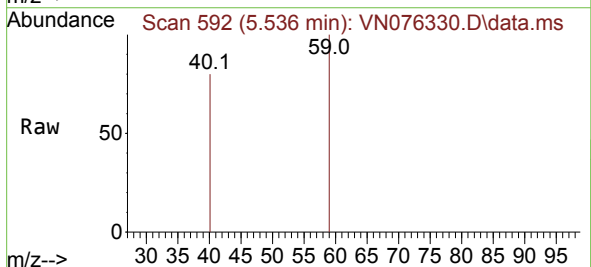
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F

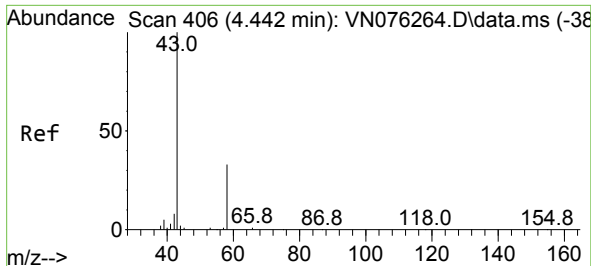
Tgt Ion:168 Resp: 382521  
Ion Ratio Lower Upper  
168 100  
99 52.2 41.6 62.4



#11  
Tert butyl alcohol  
Concen: 0.414 ug/l  
RT: 5.536 min Scan# 592  
Delta R.T. 0.006 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Tgt Ion: 59 Resp: 237  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

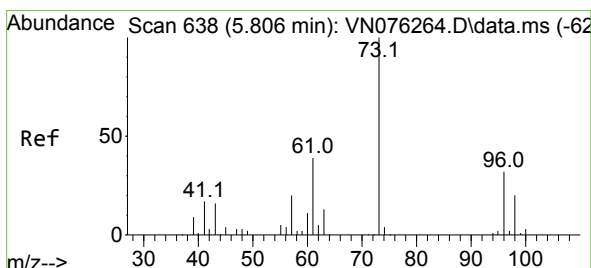
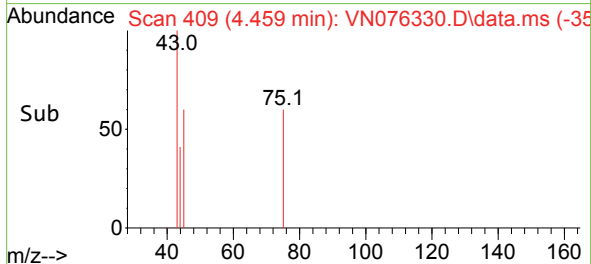
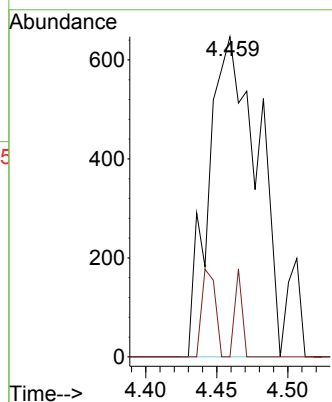
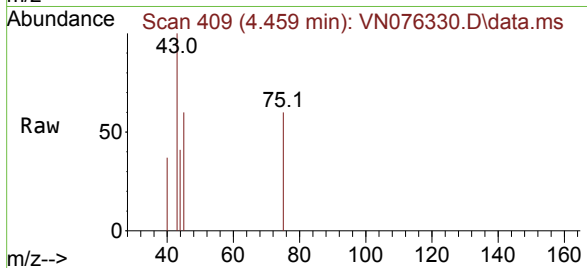




#16  
Acetone  
Concen: 1.055 ug/l  
RT: 4.459 min Scan# 406  
Delta R.T. 0.017 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

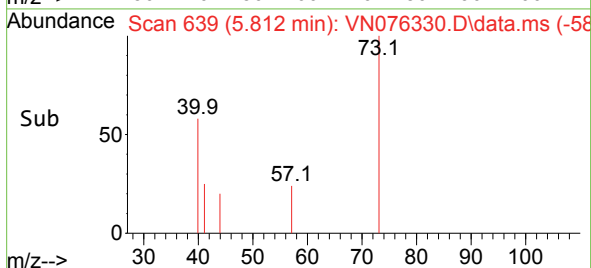
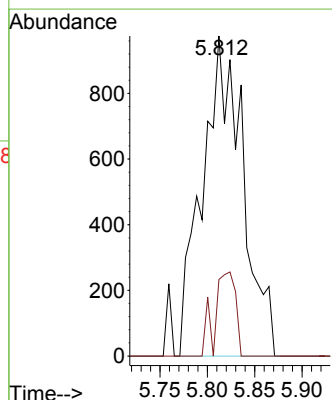
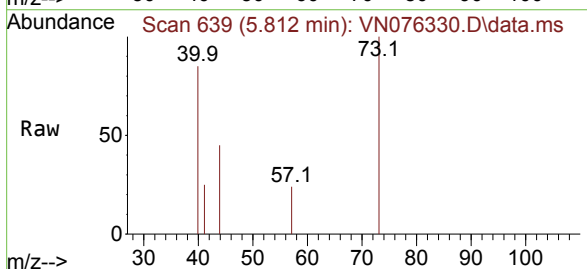
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F

Tgt Ion: 43 Resp: 1549  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.7 40.1#



#19  
Methyl tert-butyl Ether  
Concen: 0.243 ug/l  
RT: 5.812 min Scan# 639  
Delta R.T. 0.006 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

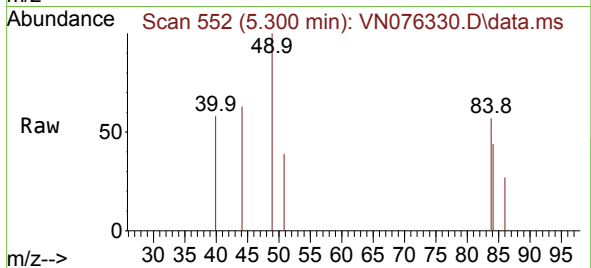
Tgt Ion: 73 Resp: 2904  
Ion Ratio Lower Upper  
73 100  
57 23.9 15.9 23.9#





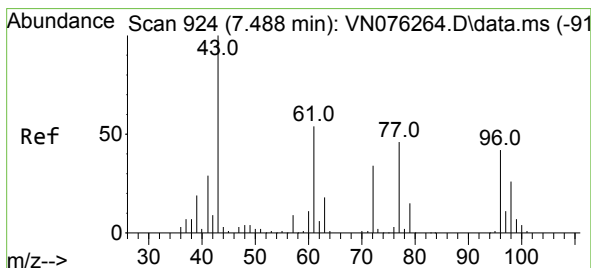
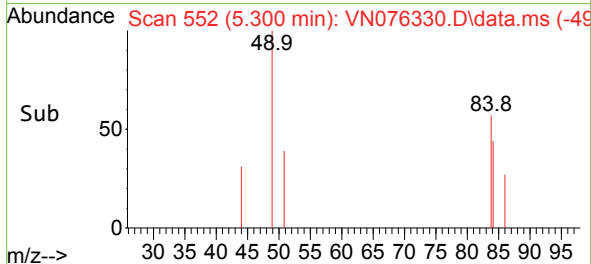
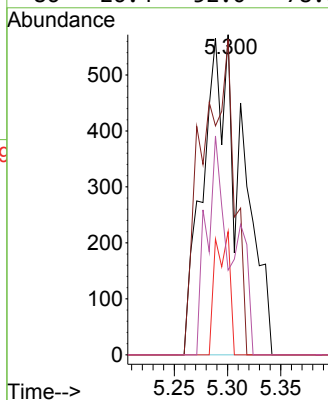
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.300 min Scan# 51  
Delta R.T. 0.011 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F



Tgt Ion: 84 Resp: 1474

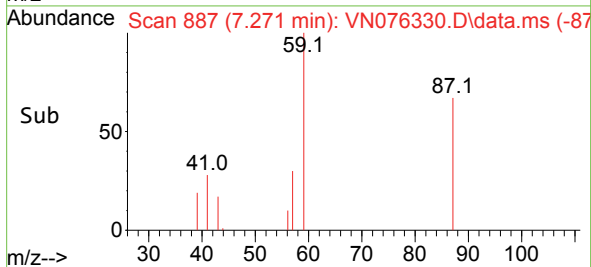
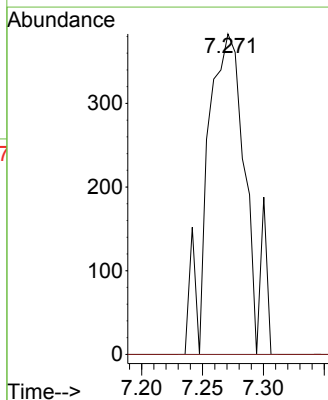
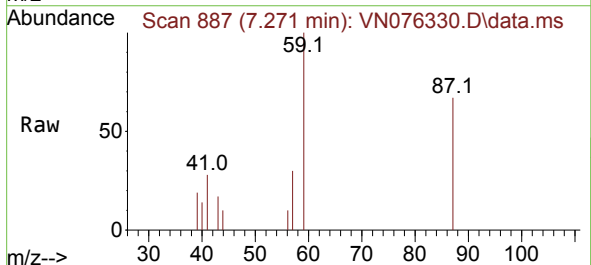
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 98.6  | 84.5  | 126.7 |
| 51  | 38.5  | 26.0  | 39.0  |
| 86  | 26.4  | 52.0  | 78.0  |

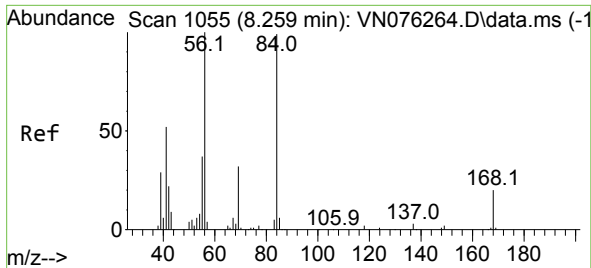


#25  
2-Butanone  
Concen: 0.410 ug/l  
RT: 7.271 min Scan# 887  
Delta R.T. -0.217 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Tgt Ion: 43 Resp: 859

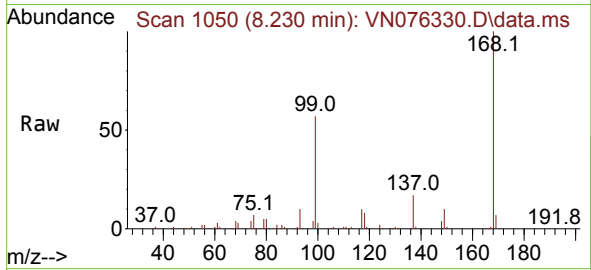
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 27.4  | 41.2  |



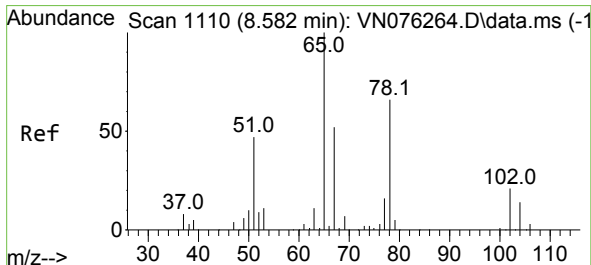
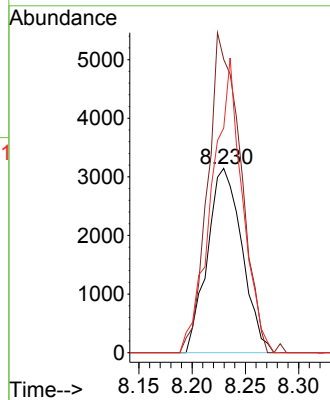
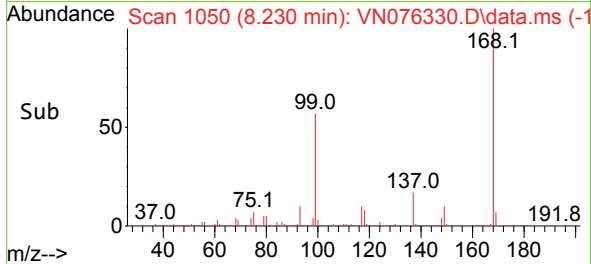


#31  
Cyclohexane  
Concen: 1.082 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.029 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F

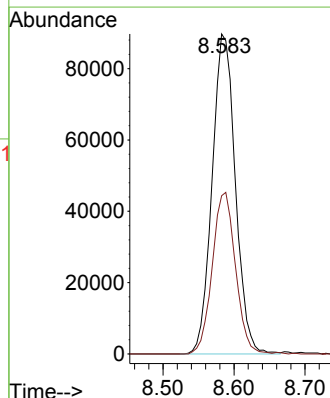
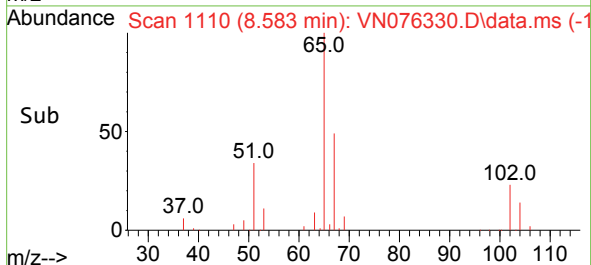
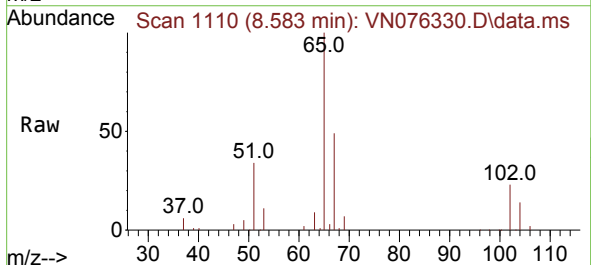


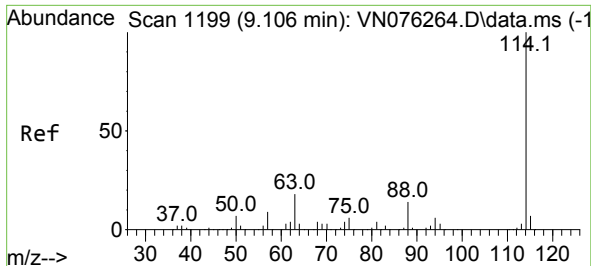
Tgt Ion: 56 Resp: 7122  
Ion Ratio Lower Upper  
56 100  
69 159.2 25.8 38.8#  
84 121.9 79.0 118.4#



#33  
1,2-Dichloroethane-d4  
Concen: 47.586 ug/l  
RT: 8.583 min Scan# 1110  
Delta R.T. 0.001 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Tgt Ion: 65 Resp: 203812  
Ion Ratio Lower Upper  
65 100  
67 50.4 0.0 104.6

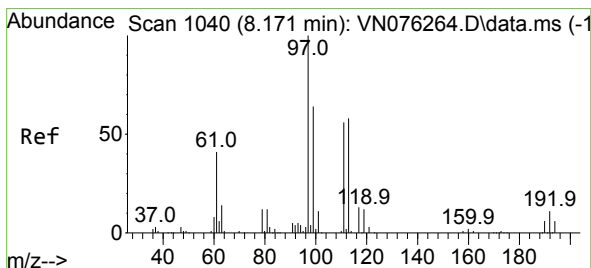
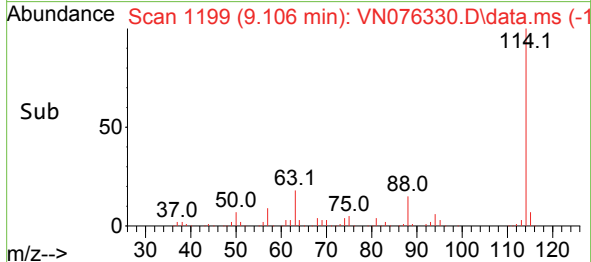
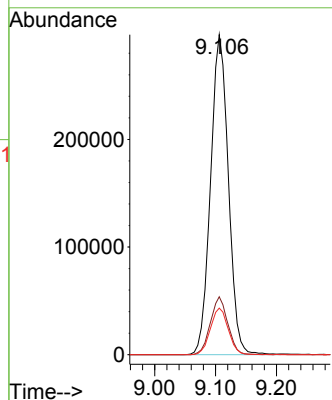
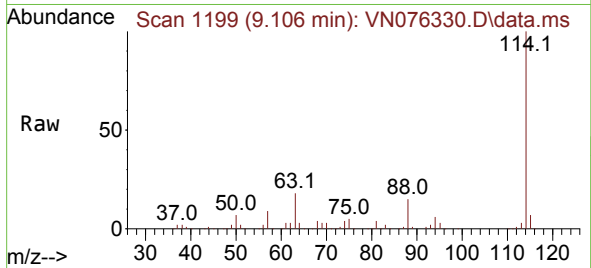




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. 0.000 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

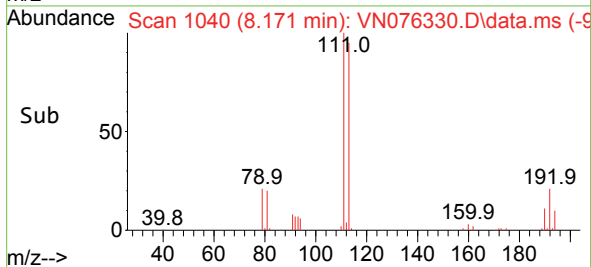
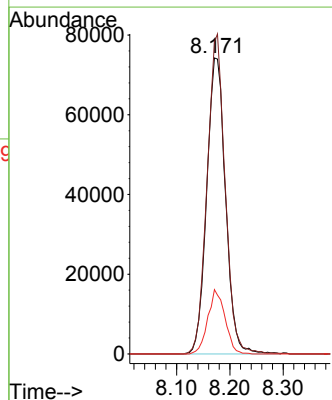
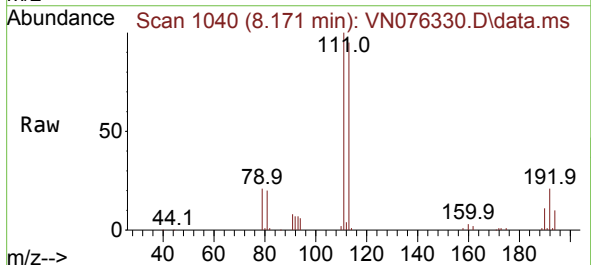
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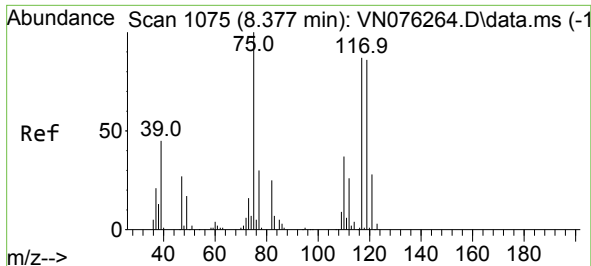
Tgt Ion:114 Resp: 603735  
Ion Ratio Lower Upper  
114 100  
63 18.1 0.0 35.8  
88 14.5 0.0 28.0



#35  
Dibromofluoromethane  
Concen: 48.205 ug/l  
RT: 8.171 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Tgt Ion:113 Resp: 182050  
Ion Ratio Lower Upper  
113 100  
111 103.8 82.7 124.1  
192 19.9 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.236 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

Instrument :

MSVOA\_N

ClientSampleId :

MH-F

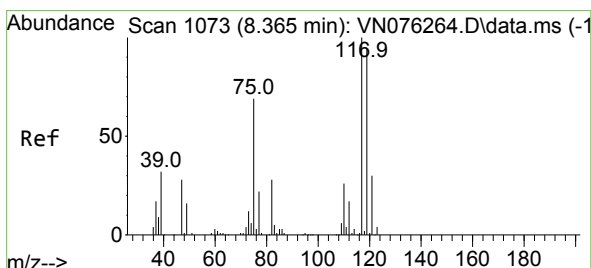
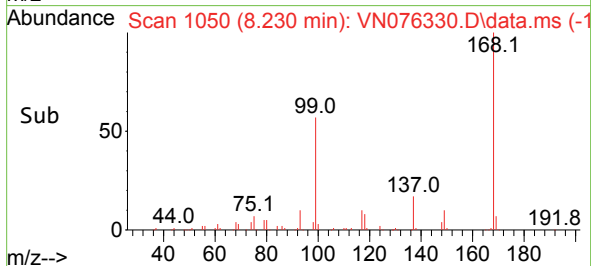
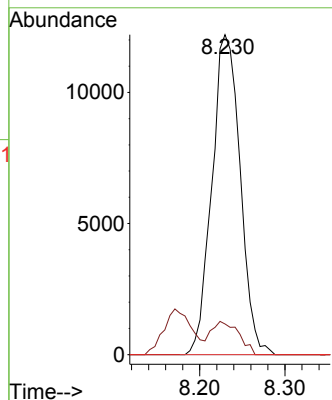
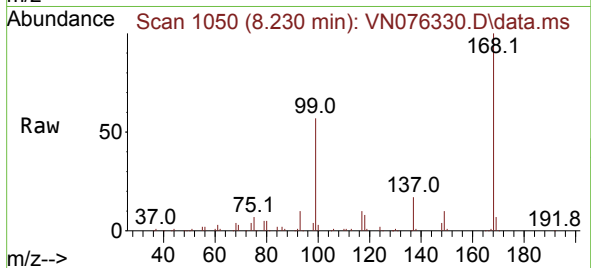
Tgt Ion: 75 Resp: 28098

Ion Ratio Lower Upper

75 100

110 10.0 18.8 56.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.142 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

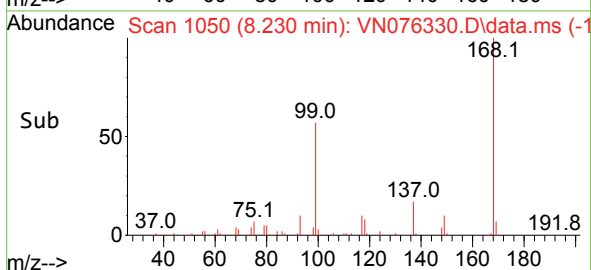
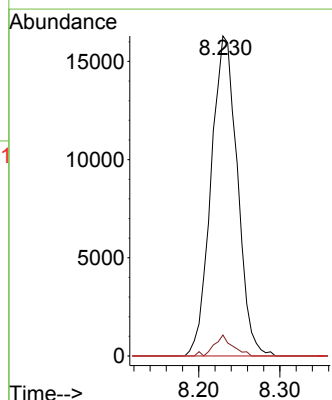
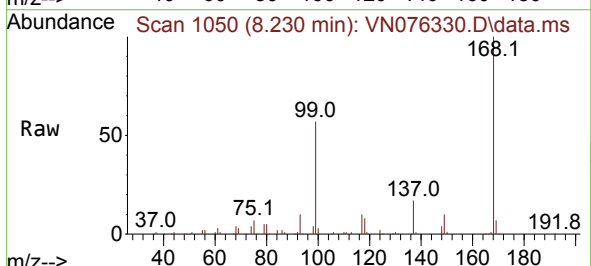
Tgt Ion: 117 Resp: 36754

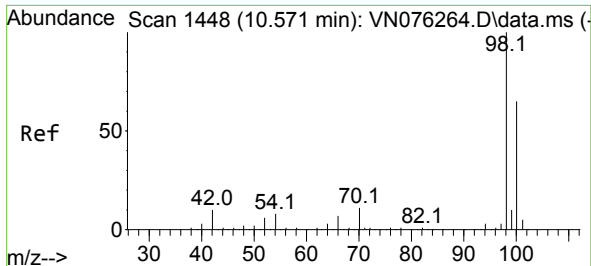
Ion Ratio Lower Upper

117 100

119 6.5 75.4 113.0#

121 0.0 24.2 36.2#

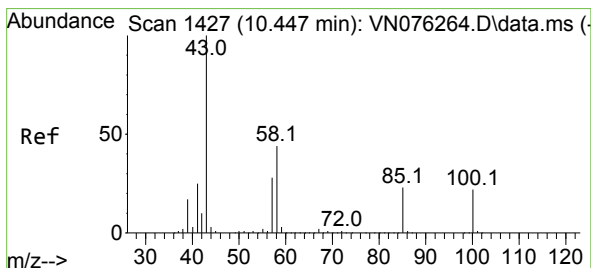
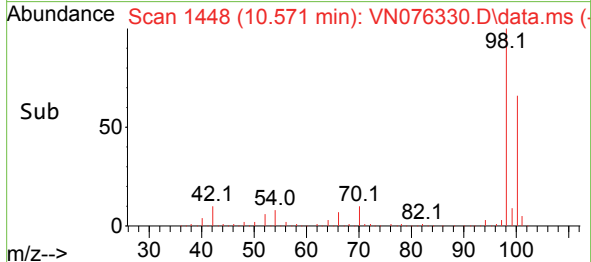
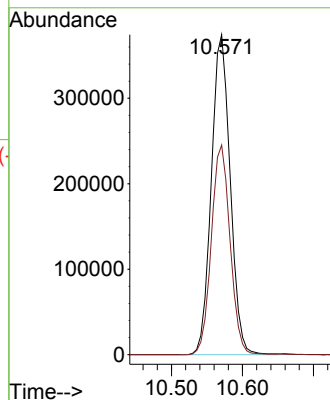
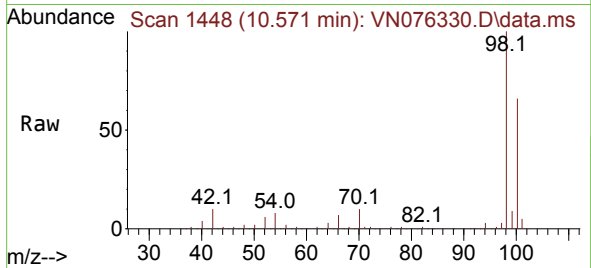




#50  
Toluene-d8  
Concen: 49.437 ug/l  
RT: 10.571 min Scan# 1419  
Delta R.T. -0.000 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

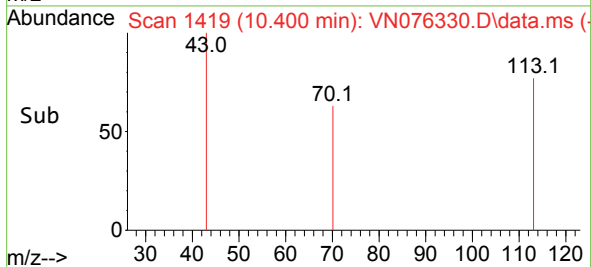
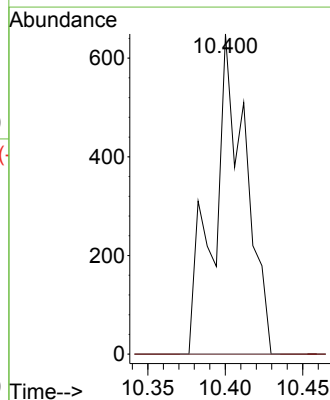
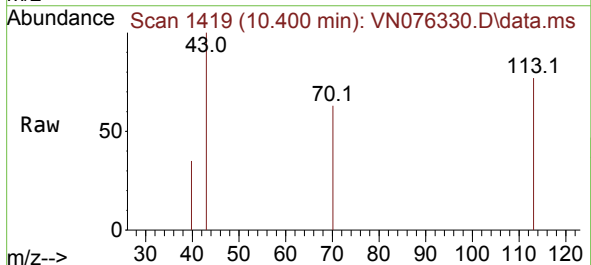
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F

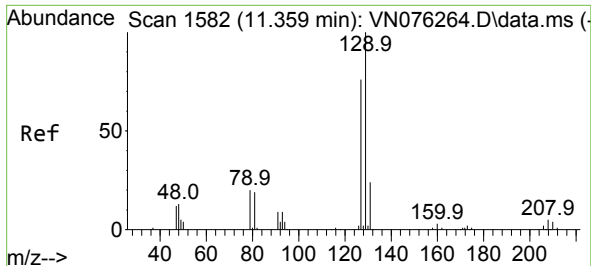
Tgt Ion: 98 Resp: 689520  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.227 ug/l  
RT: 10.400 min Scan# 1419  
Delta R.T. -0.047 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Tgt Ion: 43 Resp: 933  
Ion Ratio Lower Upper  
43 100  
58 0.0 35.1 52.7#

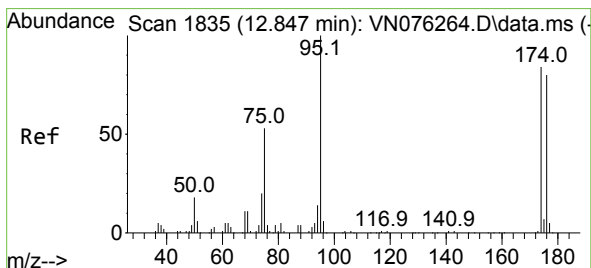
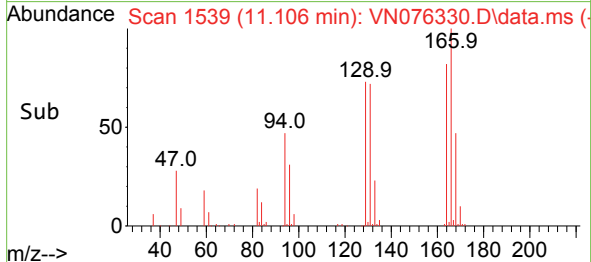
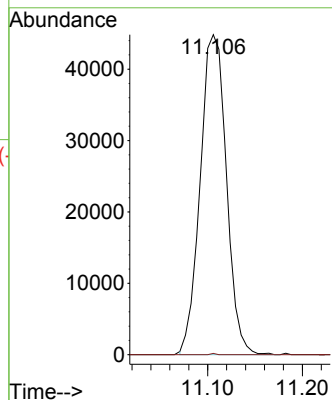
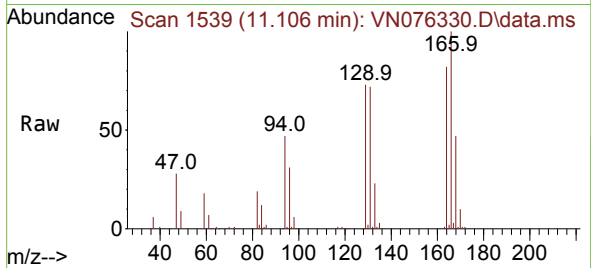




#60  
Dibromochloromethane  
Concen: 19.917 ug/l  
RT: 11.106 min Scan# 11  
Delta R.T. -0.253 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

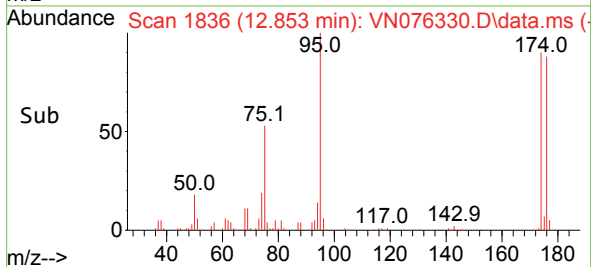
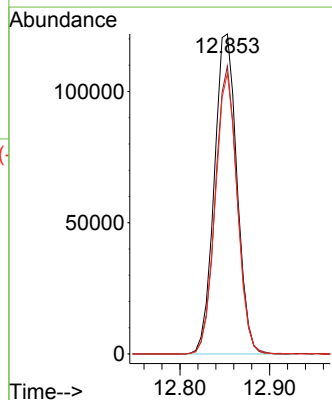
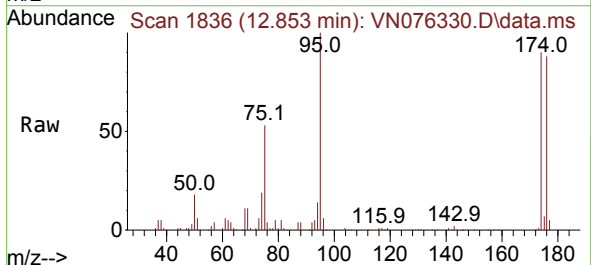
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F

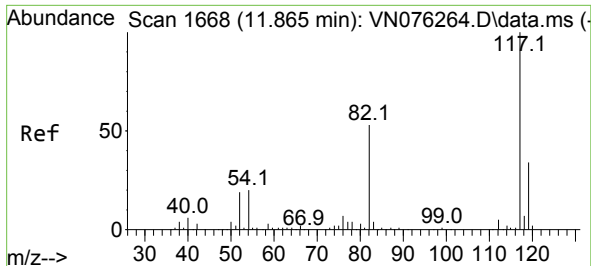
Tgt Ion:129 Resp: 85999  
Ion Ratio Lower Upper  
129 100  
127 0.1 38.7 116.1#



#62  
4-Bromofluorobenzene  
Concen: 46.912 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.006 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Tgt Ion: 95 Resp: 213598  
Ion Ratio Lower Upper  
95 100  
174 87.1 0.0 174.6  
176 84.7 0.0 167.8

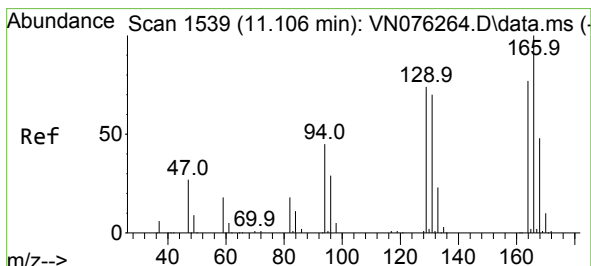
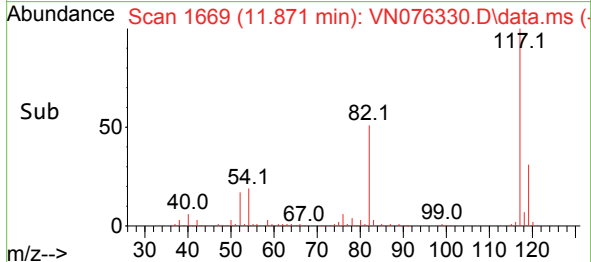
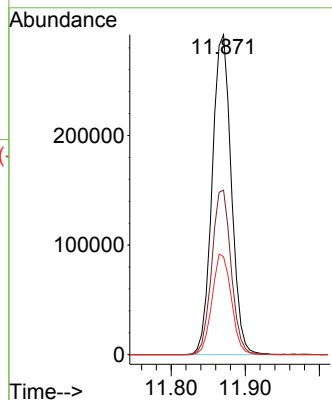
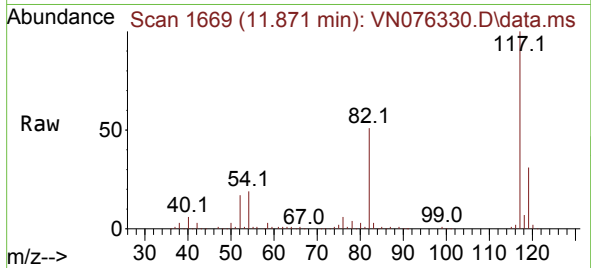




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

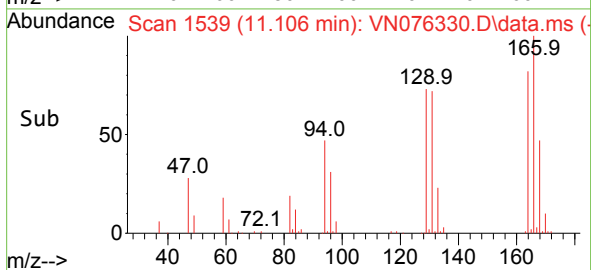
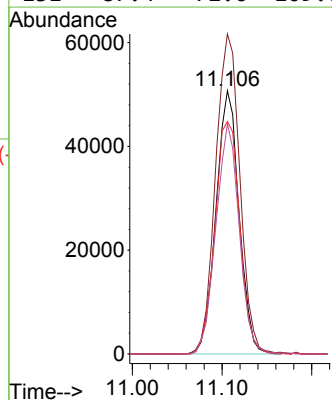
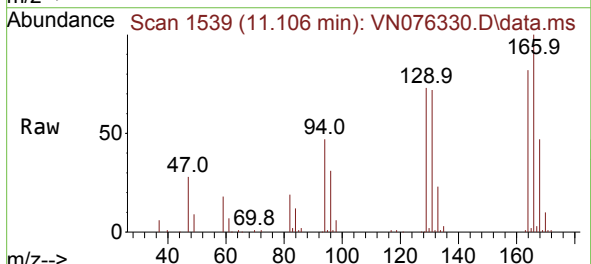
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-F

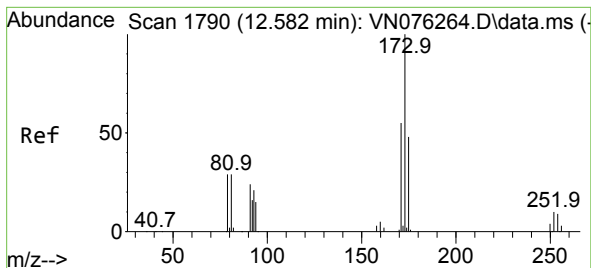
Tgt Ion:117 Resp: 523861  
Ion Ratio Lower Upper  
117 100  
82 51.4 42.2 63.2  
119 30.7 26.9 40.3



#64  
Tetrachloroethene  
Concen: 19.164 ug/l  
RT: 11.106 min Scan# 1539  
Delta R.T. -0.000 min  
Lab File: VN076330.D  
Acq: 19 Jan 2023 18:07

Tgt Ion:164 Resp: 90535  
Ion Ratio Lower Upper  
164 100  
166 121.6 104.0 156.0  
129 88.4 76.6 114.8  
131 87.4 72.6 109.0





#71

Bromoform

Concen: 0.533 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

Instrument :

MSVOA\_N

ClientSampleId :

MH-F

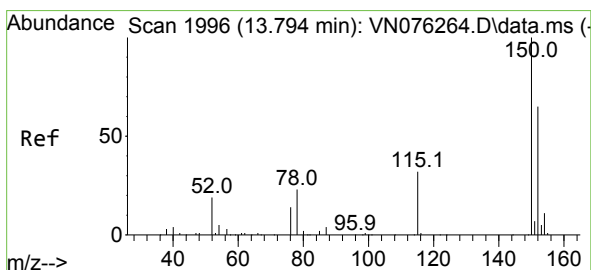
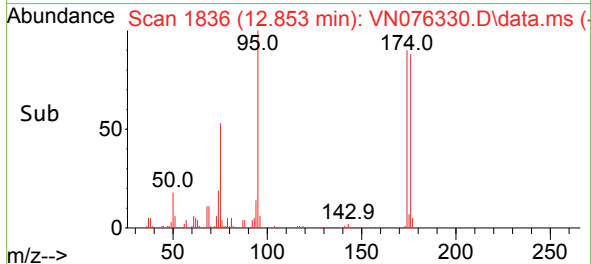
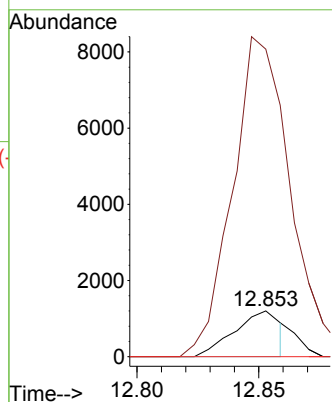
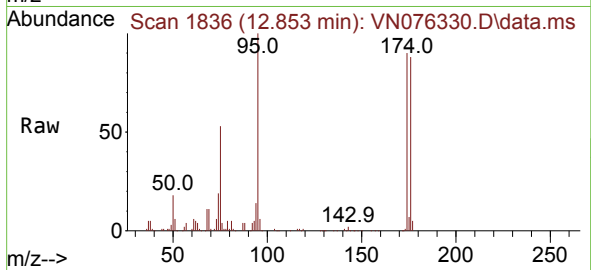
Tgt Ion:173 Resp: 1586

Ion Ratio Lower Upper

173 100

175 720.2 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

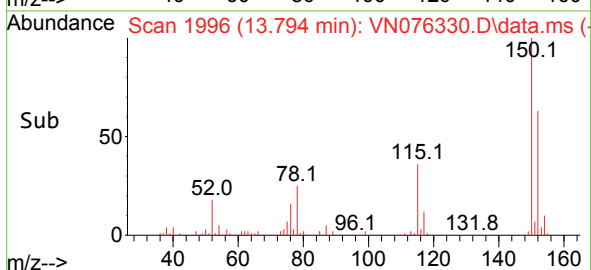
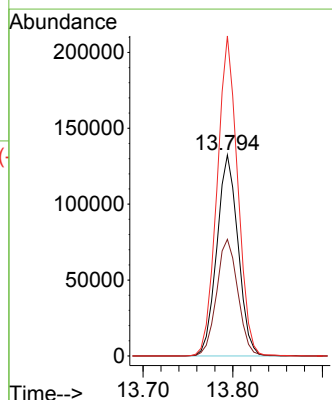
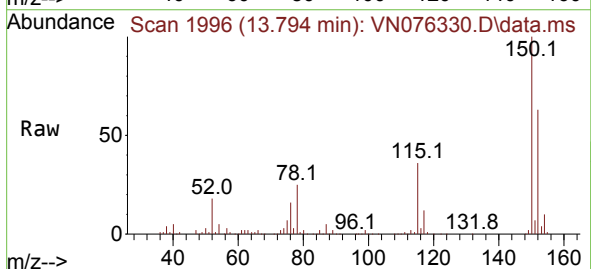
Tgt Ion:152 Resp: 217050

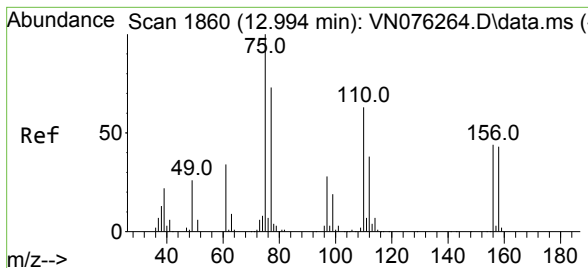
Ion Ratio Lower Upper

152 100

115 58.4 29.6 88.9

150 154.8 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 27.839 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

Instrument :

MSVOA\_N

ClientSampleId :

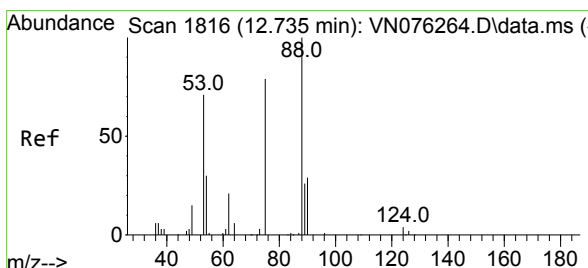
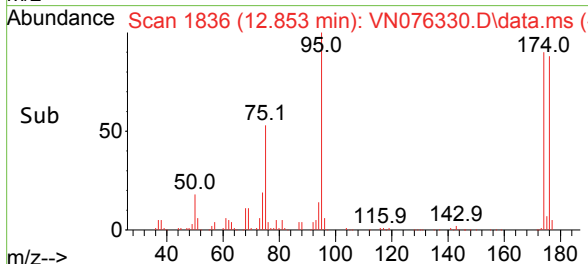
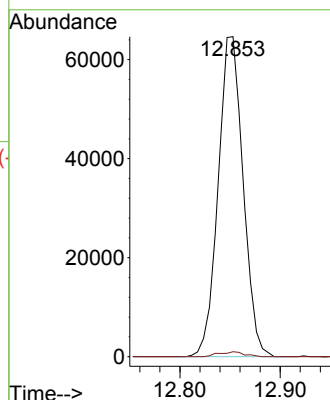
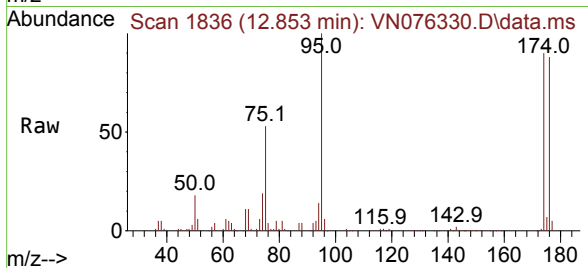
MH-F

Tgt Ion: 75 Resp: 111740

Ion Ratio Lower Upper

75 100

77 1.6 75.2 225.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.656 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.118 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

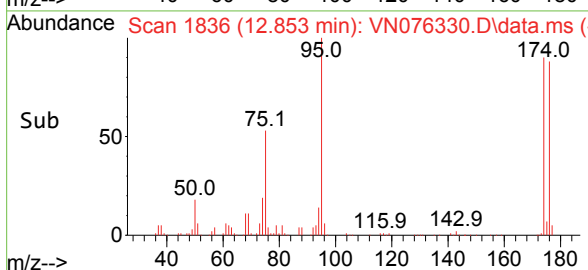
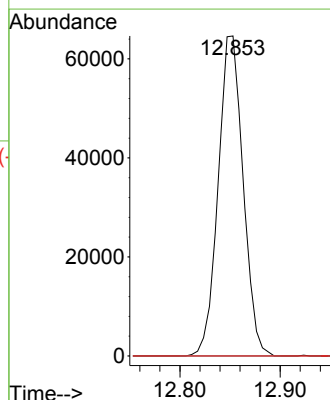
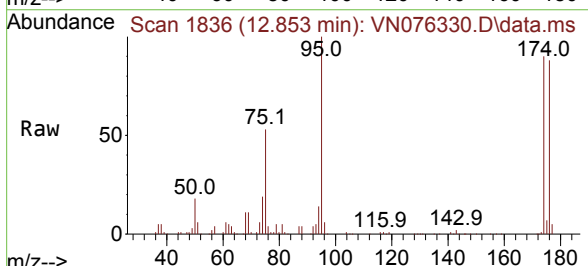
Tgt Ion: 75 Resp: 111740

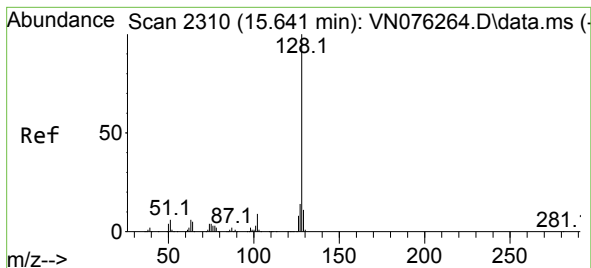
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 37.0 55.6#





#95

Naphthalene

Concen: 2.008 ug/l

RT: 15.647 min Scan# 2310

Delta R.T. 0.006 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

Instrument :

MSVOA\_N

ClientSampleId :

MH-F

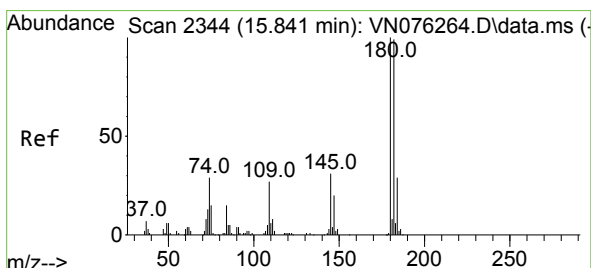
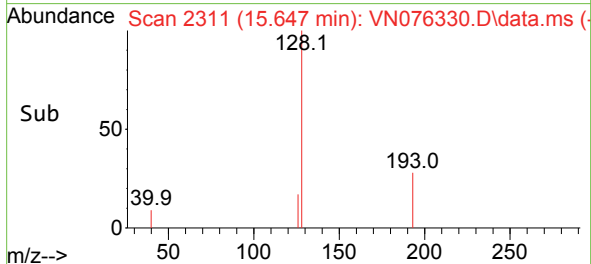
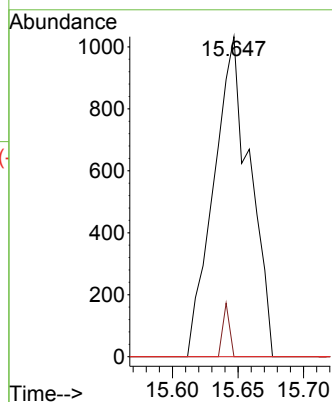
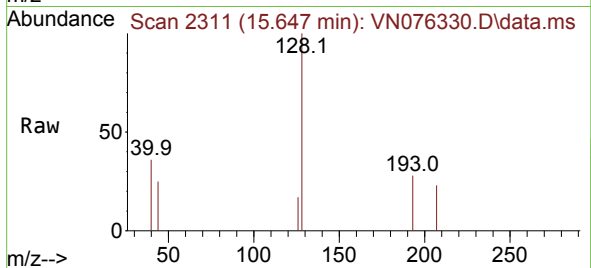
Tgt Ion:128 Resp: 1981

Ion Ratio Lower Upper

128 100

127 3.1 10.3 15.5#

129 0.0 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.169 ug/l

RT: 15.841 min Scan# 2344

Delta R.T. -0.000 min

Lab File: VN076330.D

Acq: 19 Jan 2023 18:07

Tgt Ion:180 Resp: 56

Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.5#

145 0.0 15.9 47.6#

