

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041723\  
 Data File : VN077358.D  
 Acq On : 17 Apr 2023 15:41  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Apr 18 04:41:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N040523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 06 08:27:03 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.231  | 168  | 493414   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.107  | 114  | 929593   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.872 | 117  | 836293   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.795 | 152  | 294761   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.584  | 65    | 301554   | 44.717   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 89.440% |
| 35) Dibromofluoromethane    | 8.172  | 113   | 282631   | 47.493   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 94.980% |
| 50) Toluene-d8              | 10.572 | 98    | 1144701  | 47.782   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 95.560% |
| 62) 4-Bromofluorobenzene    | 12.854 | 95    | 335526   | 42.111   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 84.220% |

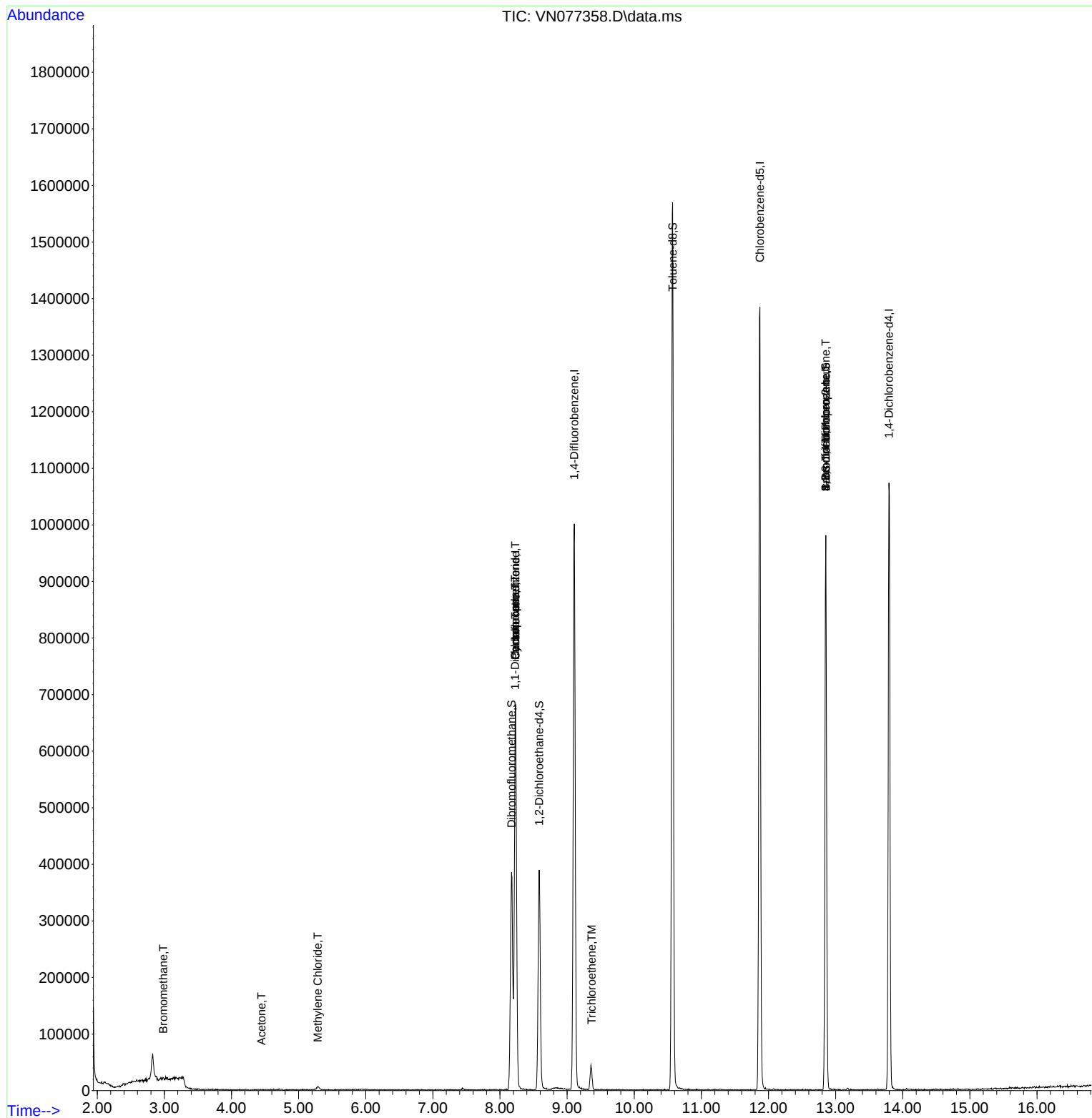
| Target Compounds              |        |     |        |        | Qvalue |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| 5) Bromomethane               | 2.984  | 94  | 2947   | 0.384  | ug/l # | 40 |
| 16) Acetone                   | 4.449  | 43  | 738    | 0.297  | ug/l # | 39 |
| 20) Methylene Chloride        | 5.284  | 84  | 3249   | 0.463  | ug/l   | 91 |
| 31) Cyclohexane               | 8.231  | 56  | 12618  | 1.204  | ug/l # | 40 |
| 36) 1,1-Dichloropropene       | 8.225  | 75  | 42448  | 4.823  | ug/l # | 47 |
| 38) Carbon Tetrachloride      | 8.231  | 117 | 54239  | 6.015  | ug/l # | 15 |
| 44) Trichloroethene           | 9.366  | 130 | 15673  | 2.386  | ug/l   | 82 |
| 71) Bromoform                 | 12.854 | 173 | 1789   | 0.365  | ug/l # | 29 |
| 76) 1,2,3-Trichloropropane    | 12.854 | 75  | 179974 | 25.641 | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.854 | 75  | 179974 | 57.700 | ug/l # | 13 |

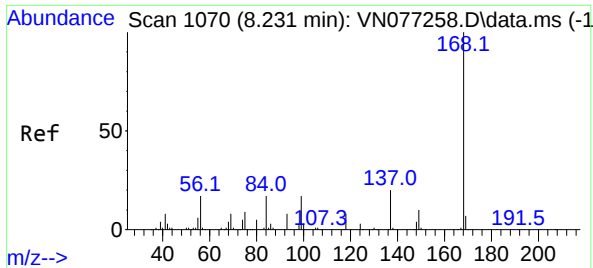
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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IBLK

Quant Time: Apr 18 04:41:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N040523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 06 08:27:03 2023  
Response via : Initial Calibration

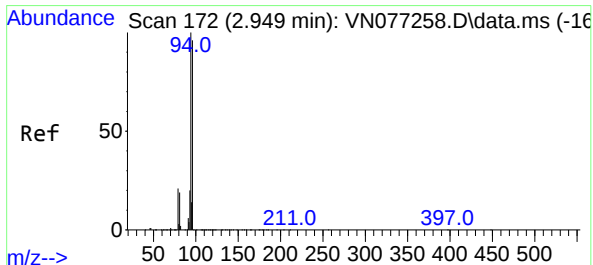
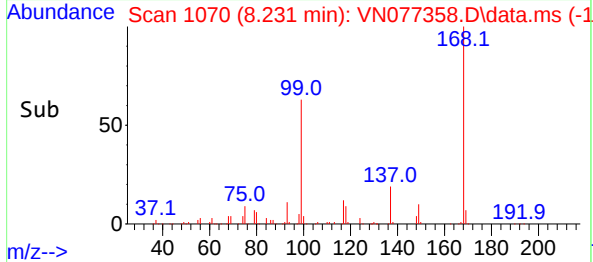
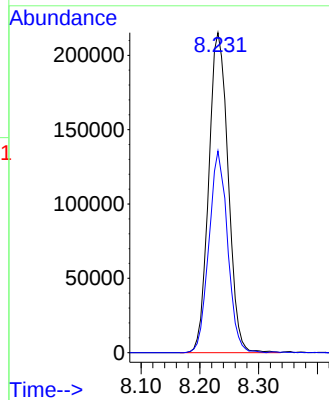
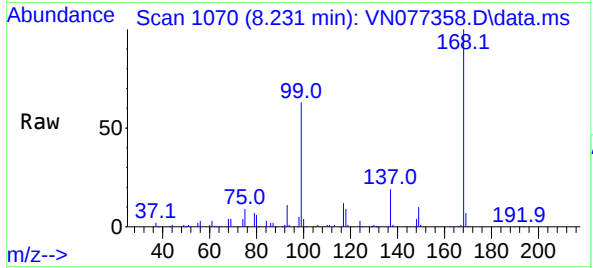




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.231 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

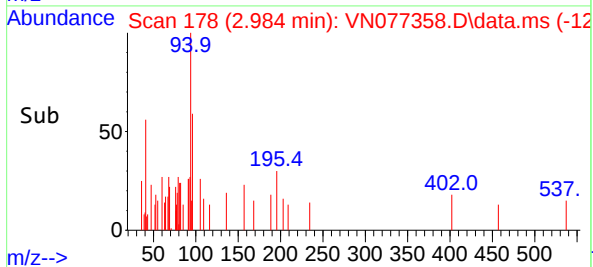
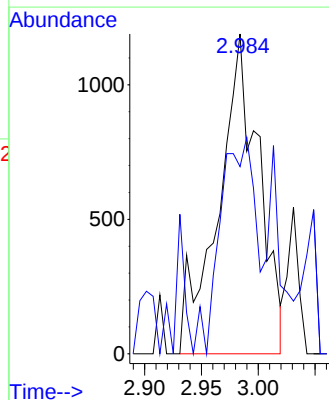
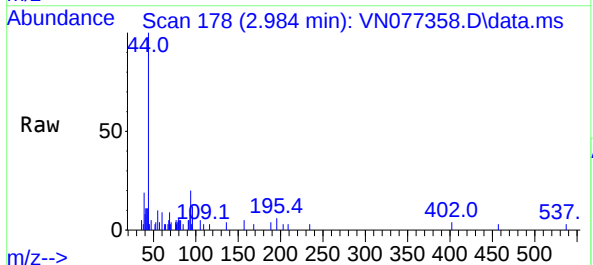
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

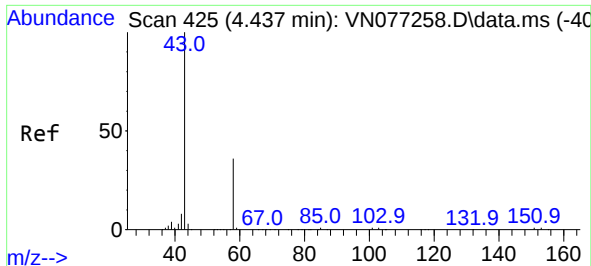
Tgt Ion:168 Resp: 493414  
Ion Ratio Lower Upper  
168 100  
99 63.0 50.6 75.8



#5  
Bromomethane  
Concen: 0.384 ug/l  
RT: 2.984 min Scan# 178  
Delta R.T. 0.035 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Tgt Ion: 94 Resp: 2947  
Ion Ratio Lower Upper  
94 100  
96 37.1 77.0 115.4#

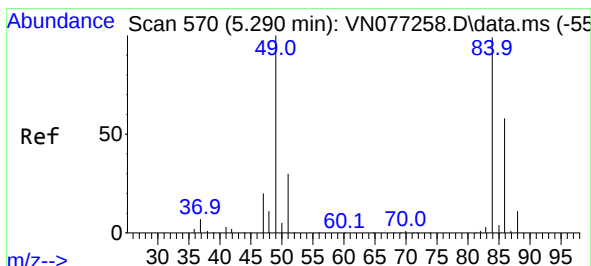
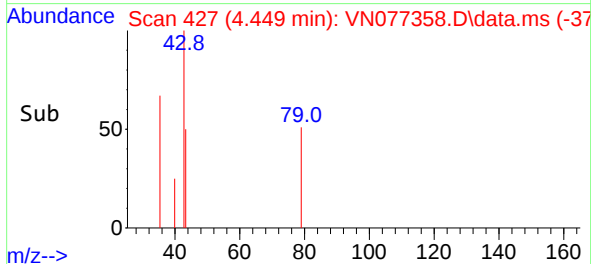
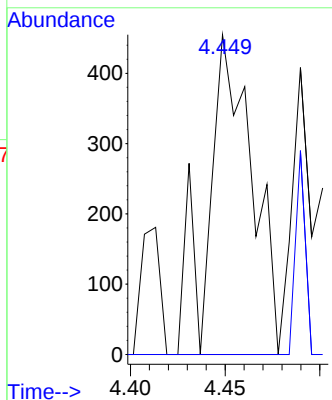
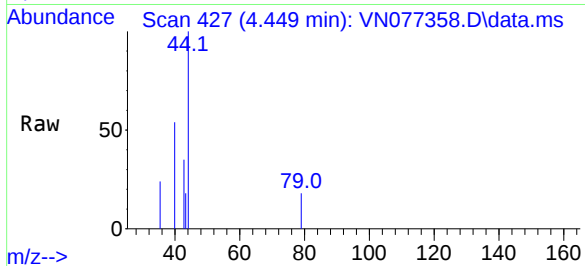




#16  
Acetone  
Concen: 0.297 ug/l  
RT: 4.449 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

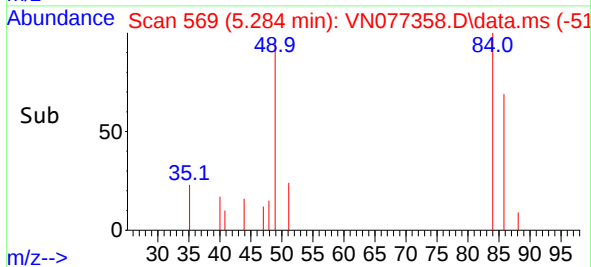
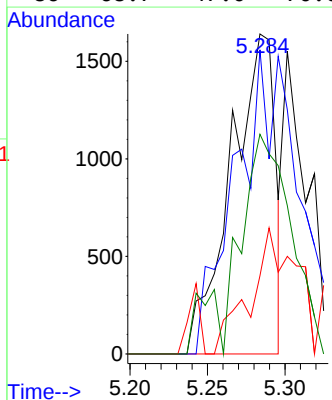
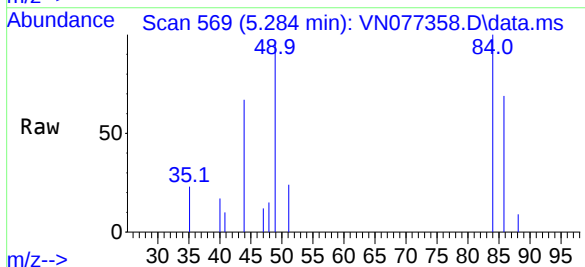
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

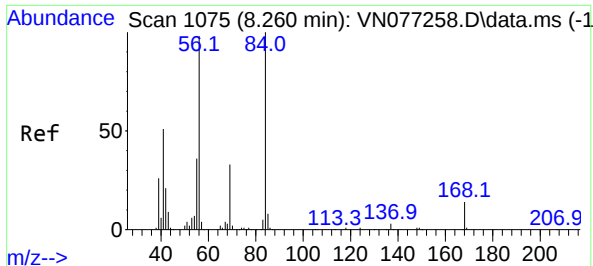
Tgt Ion: 43 Resp: 738  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.0 43.6#



#20  
Methylene Chloride  
Concen: 0.463 ug/l  
RT: 5.284 min Scan# 569  
Delta R.T. -0.006 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Tgt Ion: 84 Resp: 3249  
Ion Ratio Lower Upper  
84 100  
49 95.1 80.6 121.0  
51 24.5 24.4 36.6  
86 68.7 47.0 70.6





#31

Cyclohexane

Concen: 1.204 ug/l

RT: 8.231 min Scan# 1075

Delta R.T. -0.029 min

Lab File: VN077358.D

Acq: 17 Apr 2023 15:41

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

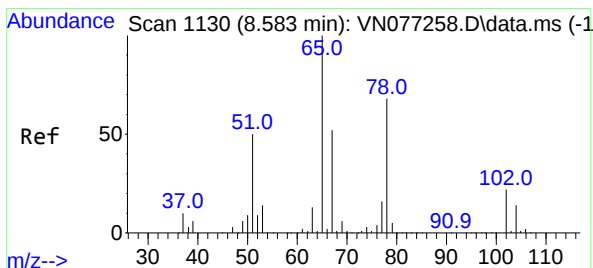
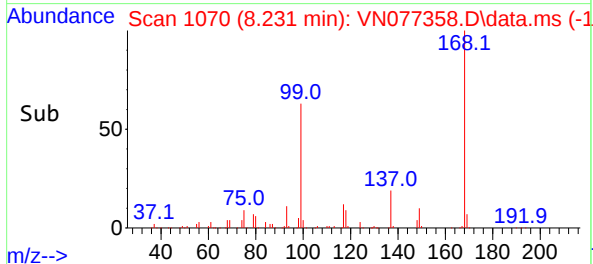
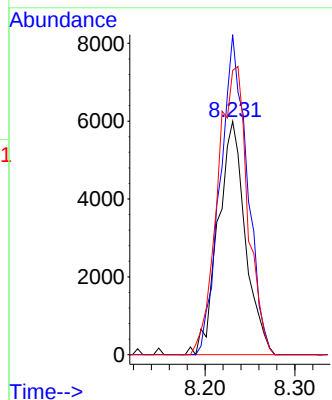
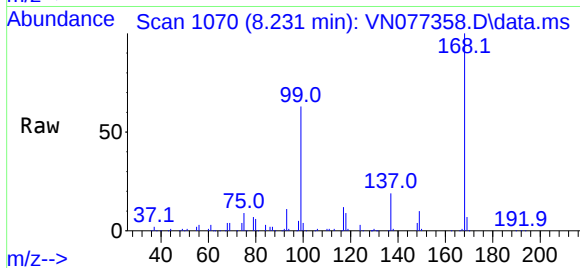
Tgt Ion: 56 Resp: 12618

Ion Ratio Lower Upper

56 100

69 137.2 26.6 40.0#

84 121.9 81.8 122.8



#33

1,2-Dichloroethane-d4

Concen: 44.717 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077358.D

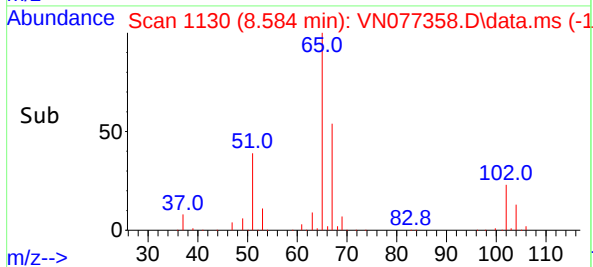
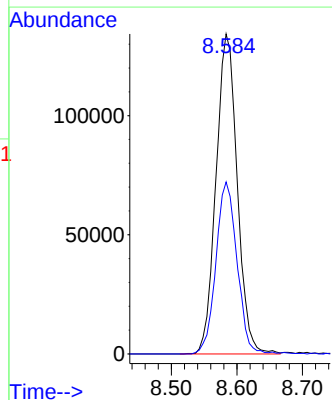
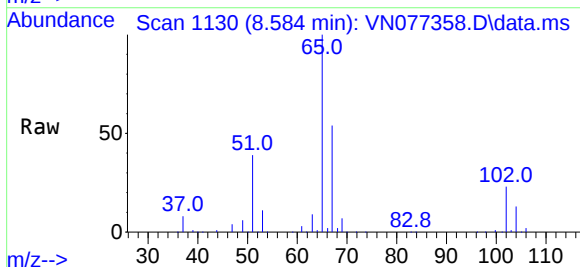
Acq: 17 Apr 2023 15:41

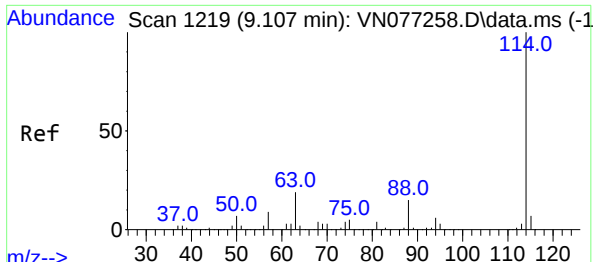
Tgt Ion: 65 Resp: 301554

Ion Ratio Lower Upper

65 100

67 53.3 0.0 108.8

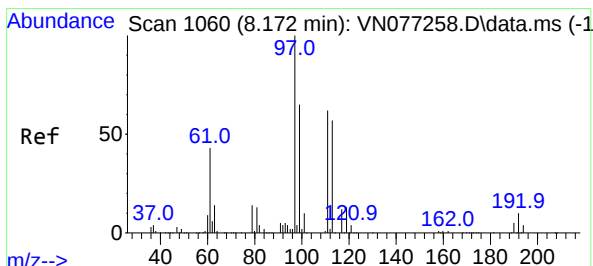
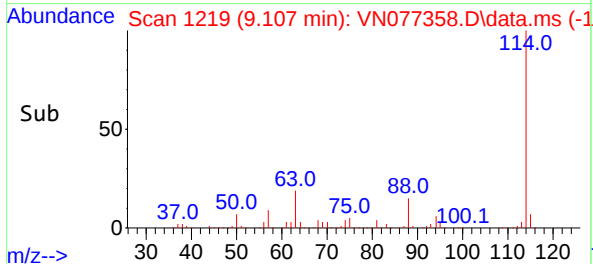
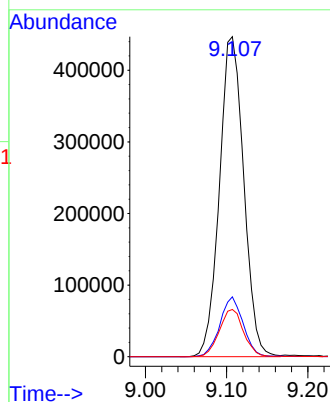
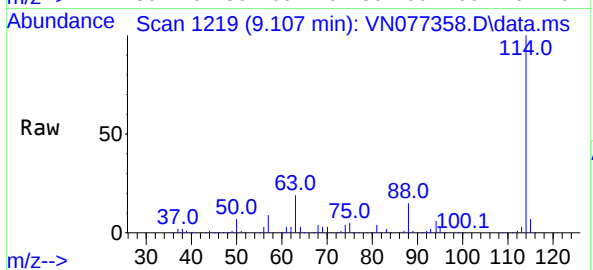




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.107 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

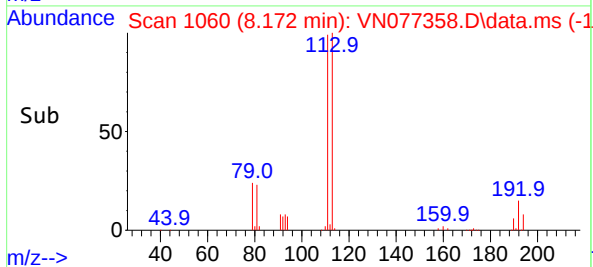
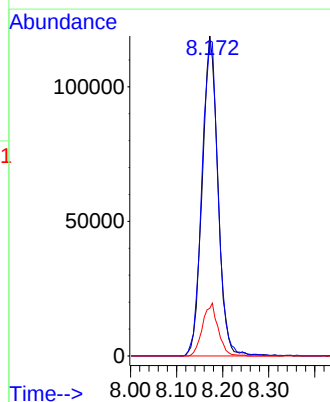
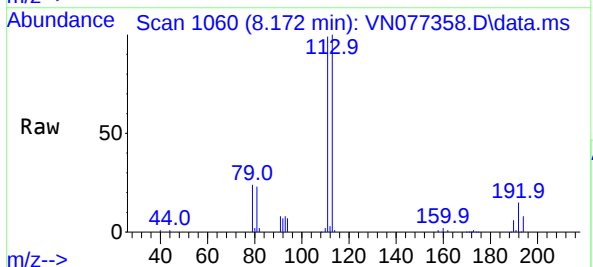
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IBLK

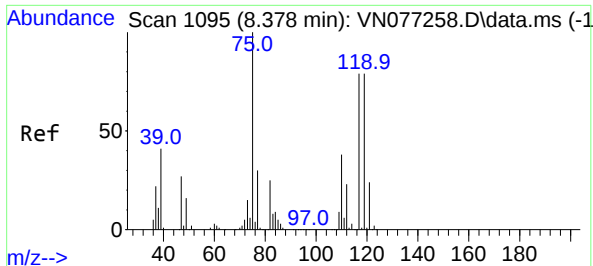
Tgt Ion:114 Resp: 929593  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 37.8  
88 14.8 0.0 29.4



#35  
Dibromofluoromethane  
Concen: 47.493 ug/l  
RT: 8.172 min Scan# 1060  
Delta R.T. -0.000 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Tgt Ion:113 Resp: 282631  
Ion Ratio Lower Upper  
113 100  
111 101.5 83.4 125.0  
192 16.3 13.5 20.3

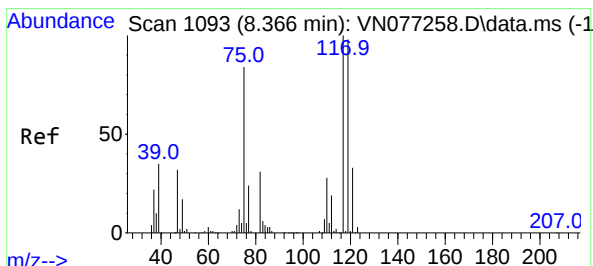
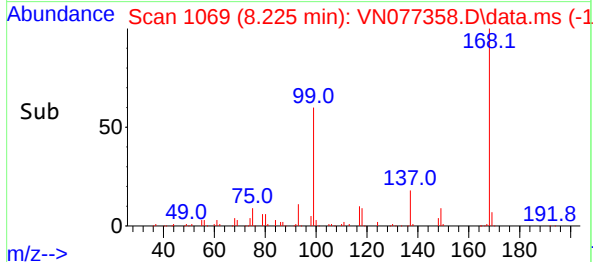
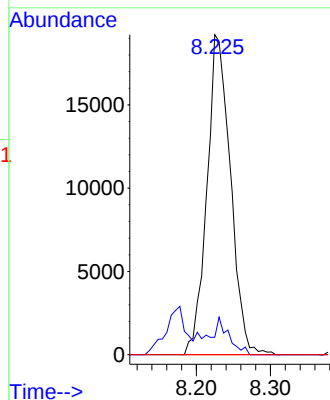
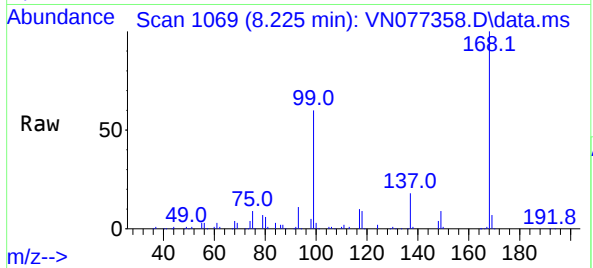




#36  
1,1-Dichloropropene  
Concen: 4.823 ug/l  
RT: 8.225 min Scan# 1070  
Delta R.T. -0.153 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

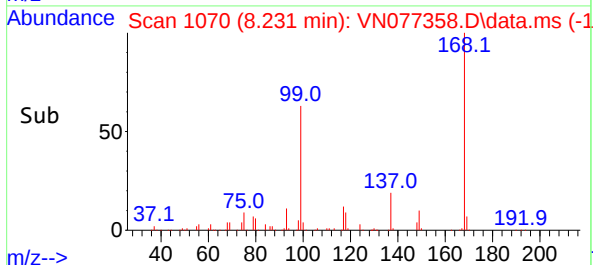
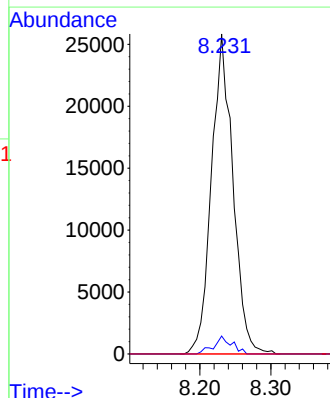
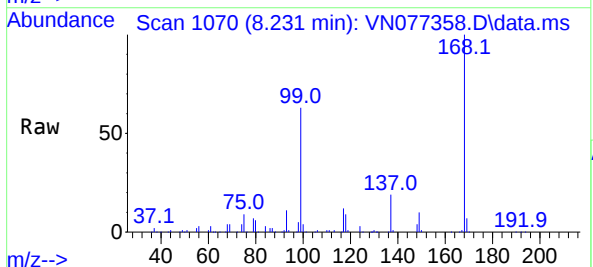
Instrument :  
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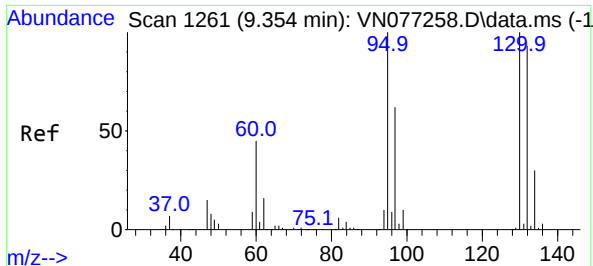
Tgt Ion: 75 Resp: 42448  
Ion Ratio Lower Upper  
75 100  
110 6.6 17.8 53.5#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 6.015 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.135 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Tgt Ion: 117 Resp: 54239  
Ion Ratio Lower Upper  
117 100  
119 5.6 78.5 117.7#  
121 0.0 26.6 40.0#





#44

Trichloroethene

Concen: 2.386 ug/l

RT: 9.366 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN077358.D

Acq: 17 Apr 2023 15:41

Instrument :

MSVOA\_N

ClientSampleId :

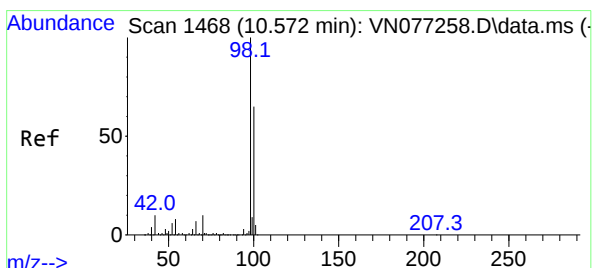
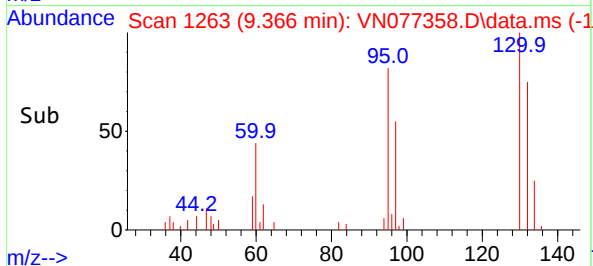
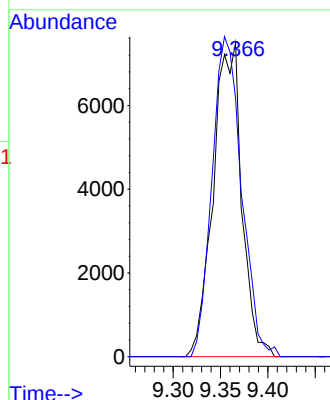
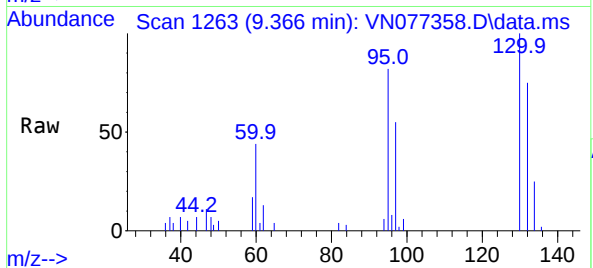
IBLK

Tgt Ion:130 Resp: 15673

Ion Ratio Lower Upper

130 100

95 82.4 0.0 200.2



#50

Toluene-d8

Concen: 47.782 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077358.D

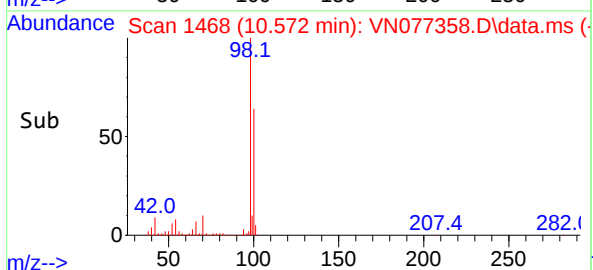
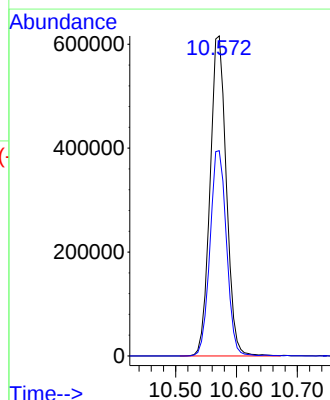
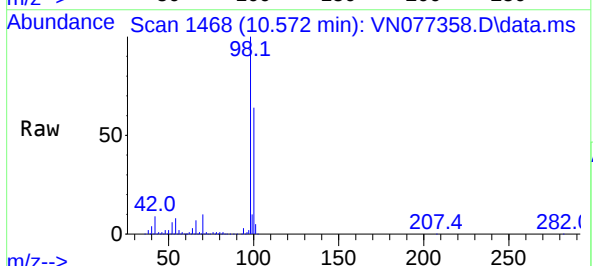
Acq: 17 Apr 2023 15:41

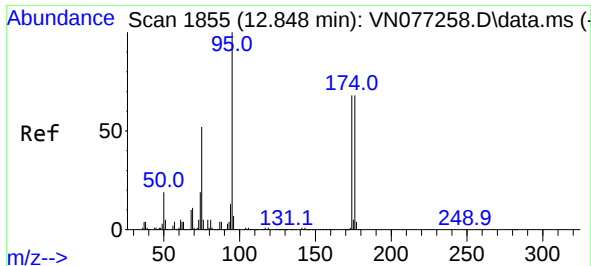
Tgt Ion: 98 Resp: 1144701

Ion Ratio Lower Upper

98 100

100 64.9 51.3 76.9

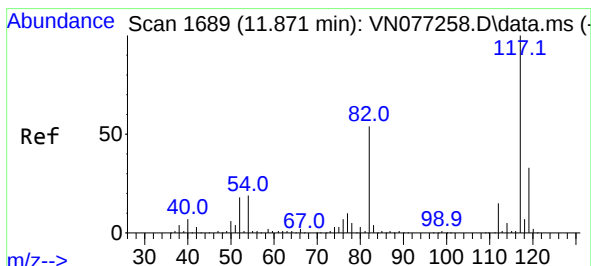
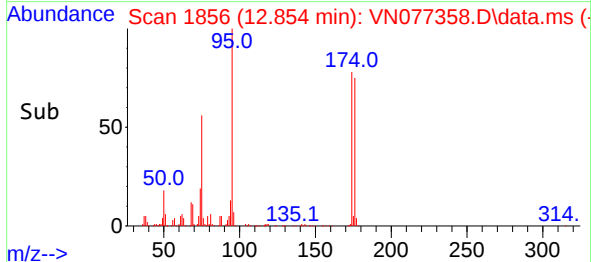
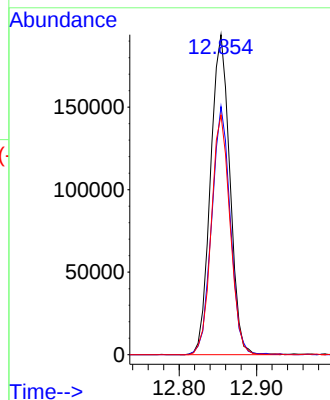
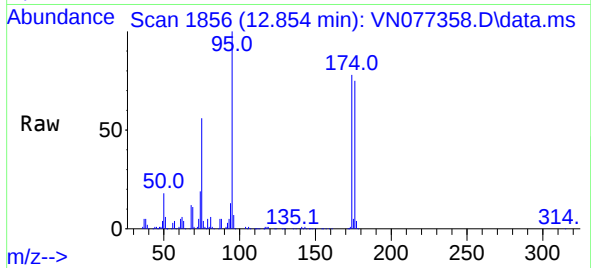




#62  
4-Bromofluorobenzene  
Concen: 42.111 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

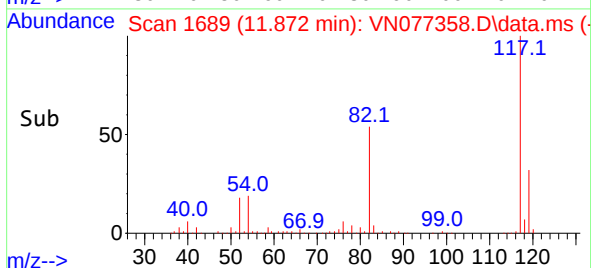
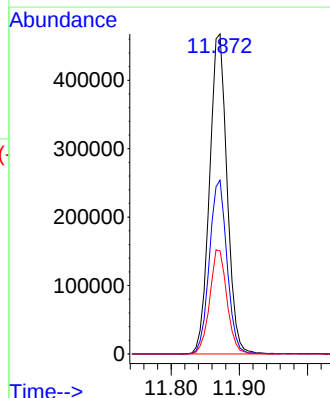
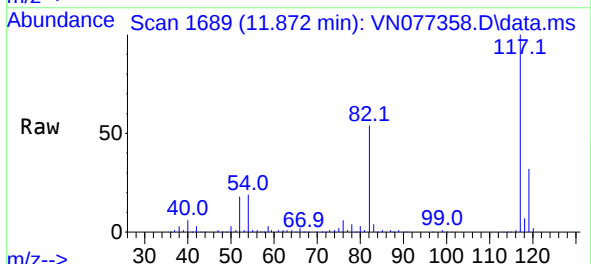
Instrument :  
MSVOA\_N  
ClientSampleId :  
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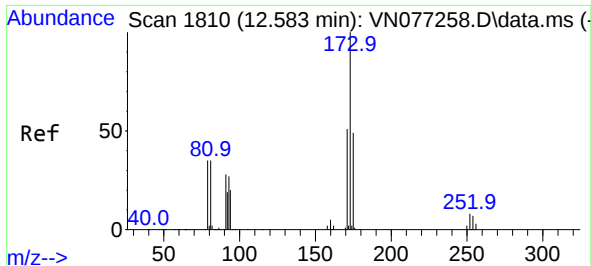
Tgt Ion: 95 Resp: 335526  
Ion Ratio Lower Upper  
95 100  
174 74.8 0.0 146.8  
176 72.7 0.0 139.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 1689  
Delta R.T. 0.001 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Tgt Ion: 117 Resp: 836293  
Ion Ratio Lower Upper  
117 100  
82 54.3 42.9 64.3  
119 32.2 26.2 39.4

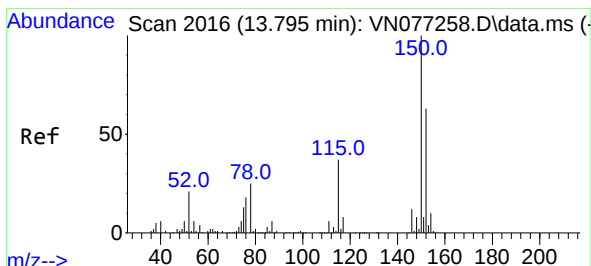
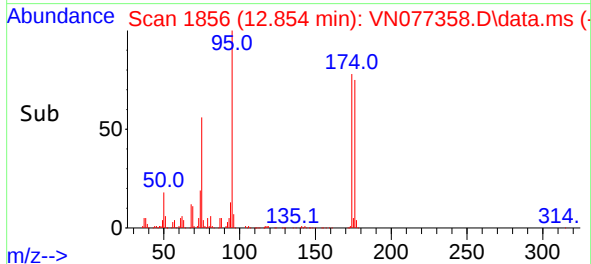
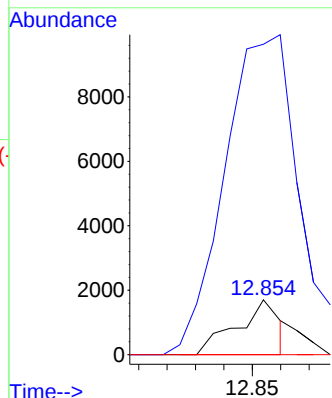
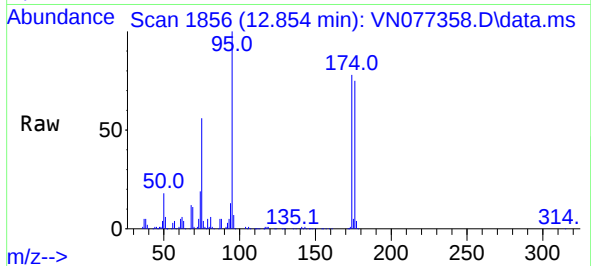




#71  
Bromoform  
Concen: 0.365 ug/l  
RT: 12.854 min Scan# 1810  
Delta R.T. 0.271 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

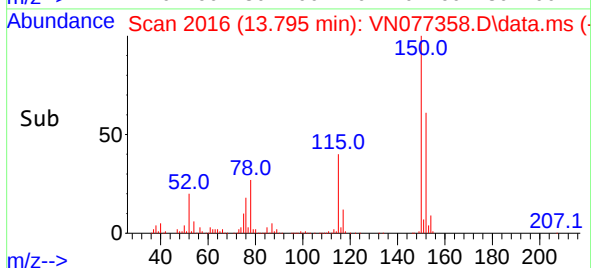
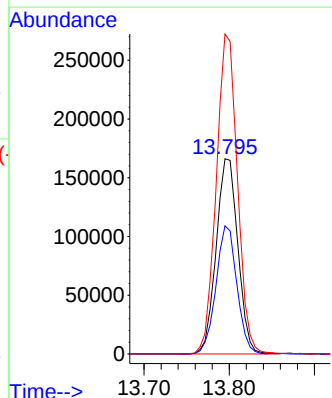
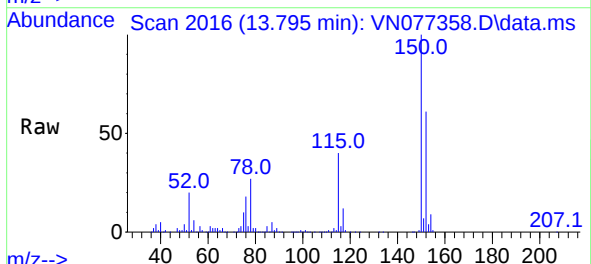
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

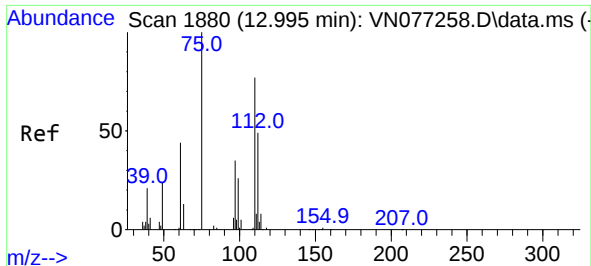
Tgt Ion:173 Resp: 1789  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.1 72.4#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.795 min Scan# 2016  
Delta R.T. 0.000 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Tgt Ion:152 Resp: 294761  
Ion Ratio Lower Upper  
152 100  
115 63.3 32.1 96.3  
150 159.8 0.0 354.8

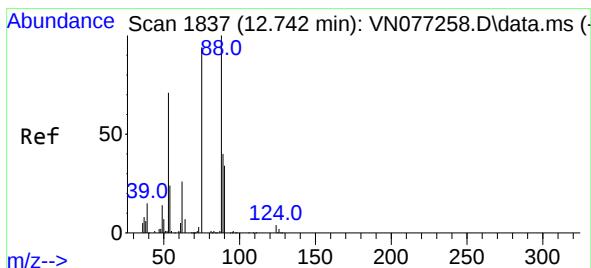
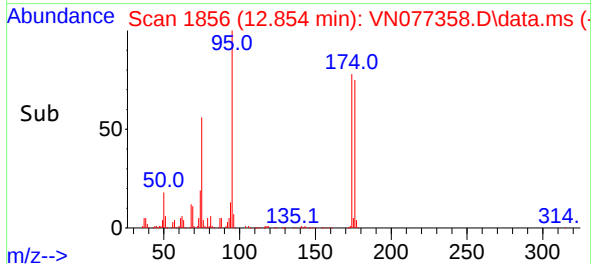
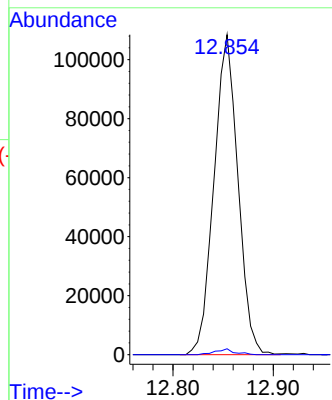
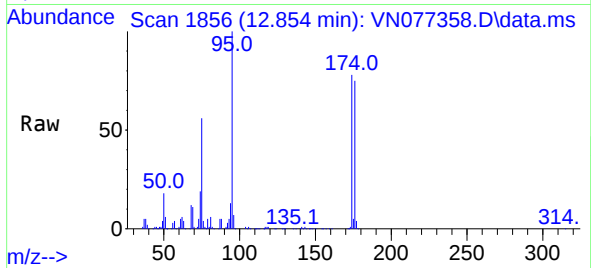




#76  
1,2,3-Trichloropropane  
Concen: 25.641 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. -0.141 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

Tgt Ion: 75 Resp: 179974  
Ion Ratio Lower Upper  
75 100  
77 1.4 88.3 264.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.700 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.112 min  
Lab File: VN077358.D  
Acq: 17 Apr 2023 15:41

Tgt Ion: 75 Resp: 179974  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.8 109.2#  
89 0.0 37.4 56.2#

