

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041323\  
 Data File : VN077326.D  
 Acq On : 13 Apr 2023 14:12  
 Operator : JC\MD  
 Sample : 02292-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IDW-SO-G2-041123

Quant Time: Apr 14 07:24:07 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

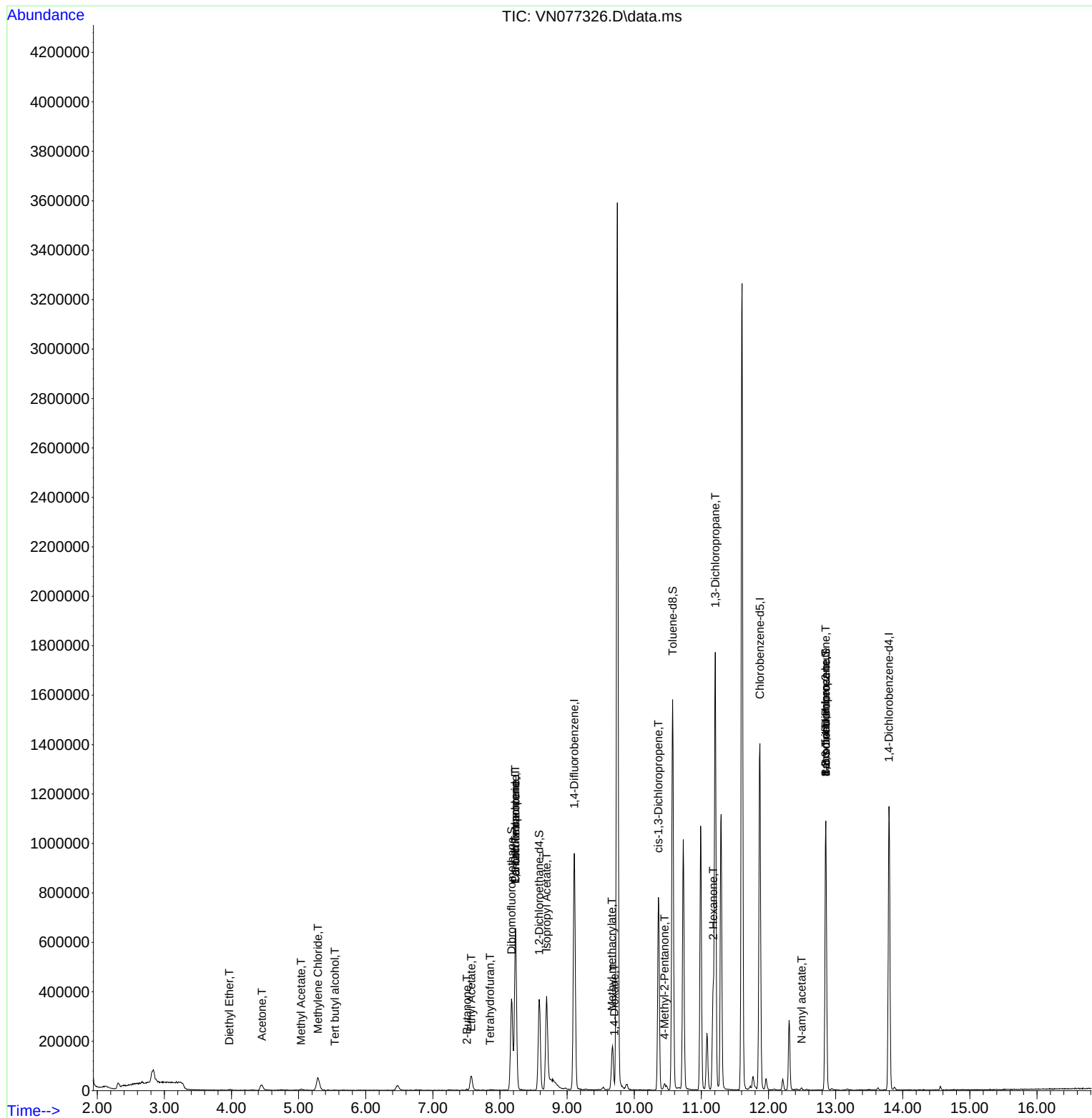
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.231          | 168  | 458260     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107          | 114  | 888596     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.872         | 117  | 840874     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 304444     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.584          | 65   | 288955     | 46.135   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 92.280%  |        |          |
| 35) Dibromofluoromethane      | 8.172          | 113  | 263301     | 46.286   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.580%  |        |          |
| 50) Toluene-d8                | 10.572         | 98   | 1116287    | 48.746   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 97.500%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 381321     | 50.067   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 100.140% |        |          |
| Target Compounds              |                |      |            |          |        |          |
|                               |                |      |            |          | Qvalue |          |
| 8) Diethyl Ether              | 3.966          | 74   | 1171       | 0.328    | ug/l   | 84       |
| 11) Tert butyl alcohol        | 5.543          | 59   | 834        | 0.653    | ug/l # | 92       |
| 16) Acetone                   | 4.455          | 43   | 42786      | 18.528   | ug/l   | 90       |
| 18) Methyl Acetate            | 5.037          | 43   | 3406       | 0.387    | ug/l # | 45       |
| 20) Methylene Chloride        | 5.290          | 84   | 43063      | 6.603    | ug/l # | 96       |
| 25) 2-Butanone                | 7.507          | 43   | 4898       | 1.307    | ug/l   | 97       |
| 29) Tetrahydrofuran           | 7.854          | 42   | 1046       | 0.434    | ug/l # | 74       |
| 36) 1,1-Dichloropropene       | 8.231          | 75   | 38665      | 4.596    | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.572          | 43   | 85507      | 11.359   | ug/l   | 97       |
| 38) Carbon Tetrachloride      | 8.231          | 117  | 52642      | 6.107    | ug/l # | 14       |
| 43) Isopropyl Acetate         | 8.695          | 43   | 435137     | 31.327   | ug/l # | 87       |
| 48) Methyl methacrylate       | 9.666          | 41   | 9321       | 1.573    | ug/l # | 5        |
| 49) 1,4-Dioxane               | 9.701          | 88   | 156        | 1.086    | ug/l # | 28       |
| 51) 4-Methyl-2-Pentanone      | 10.454         | 43   | 12943      | 1.612    | ug/l   | 88       |
| 54) cis-1,3-Dichloropropene   | 10.360         | 75   | 160177     | 14.755   | ug/l # | 61       |
| 57) 1,3-Dichloropropane       | 11.207         | 76   | 22453      | 2.016    | ug/l # | 43       |
| 59) 2-Hexanone                | 11.178         | 43   | 282146     | 47.170   | ug/l # | 20       |
| 71) Bromoform                 | 12.854         | 173  | 1745       | 0.354    | ug/l # | 1        |
| 74) N-amyl acetate            | 12.495         | 43   | 2688       | 0.240    | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.854         | 75   | 205696     | 28.373   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.854         | 75   | 205696     | 63.849   | ug/l # | 13       |
| -----                         |                |      |            |          |        |          |

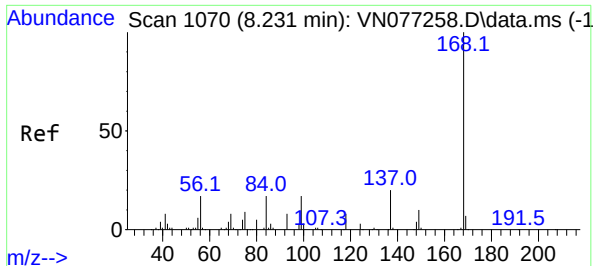
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041323\  
Data File : VN077326.D  
Acq On : 13 Apr 2023 14:12  
Operator : JC\MD  
Sample : 02292-08  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

Quant Time: Apr 14 07:24:07 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

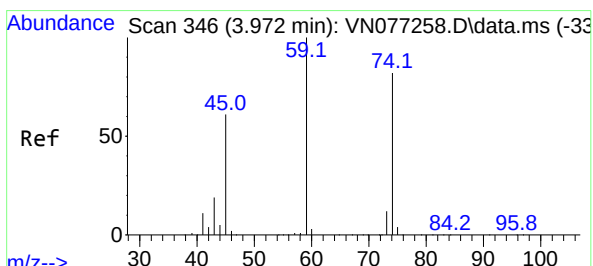
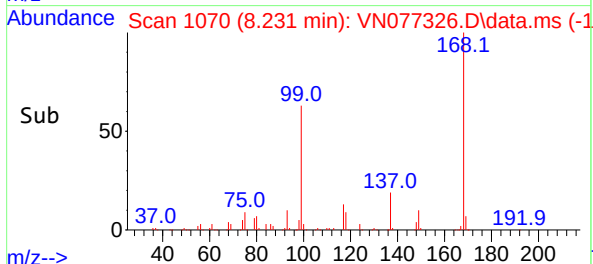
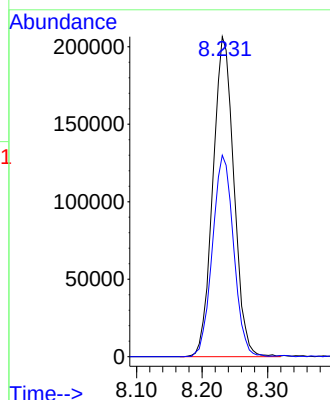
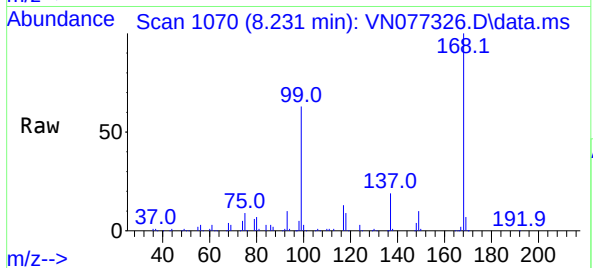




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.231 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

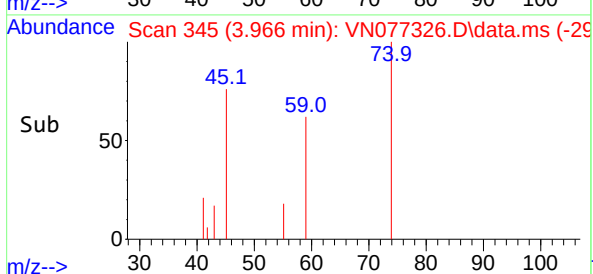
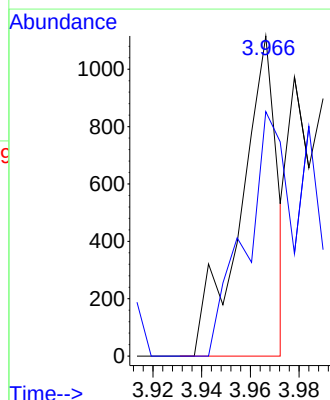
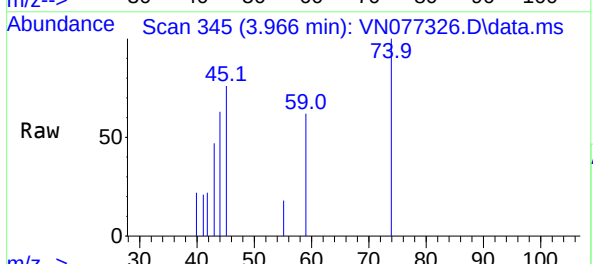
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

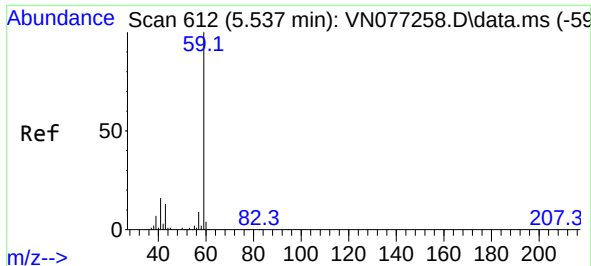
Tgt Ion:168 Resp: 458260  
Ion Ratio Lower Upper  
168 100  
99 62.9 50.6 75.8



#8  
Diethyl Ether  
Concen: 0.328 ug/l  
RT: 3.966 min Scan# 345  
Delta R.T. -0.006 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 74 Resp: 1171  
Ion Ratio Lower Upper  
74 100  
45 88.9 37.8 113.4

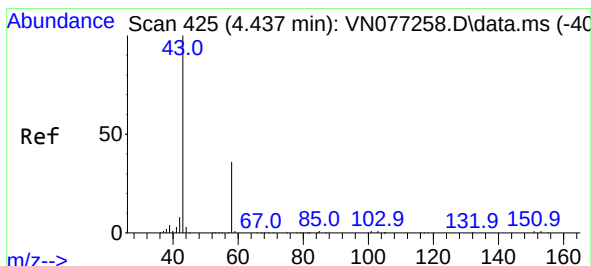
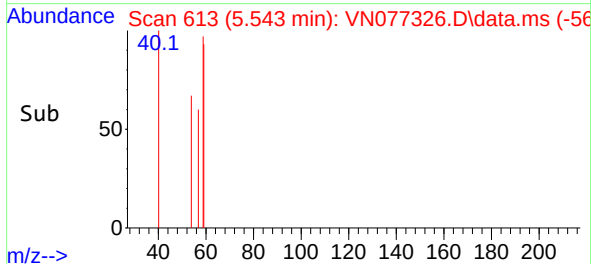
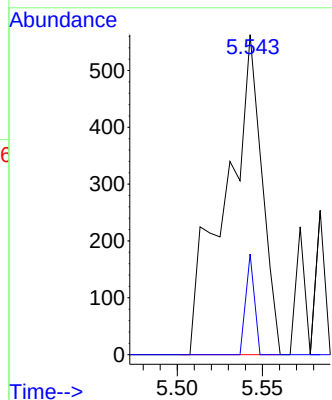
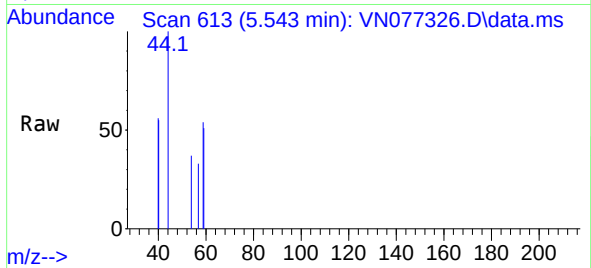




#11  
Tert butyl alcohol  
Concen: 0.653 ug/l  
RT: 5.543 min Scan# 612  
Delta R.T. 0.006 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

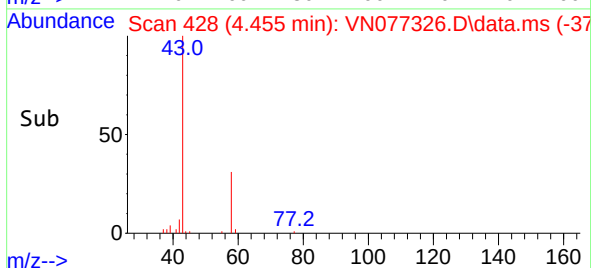
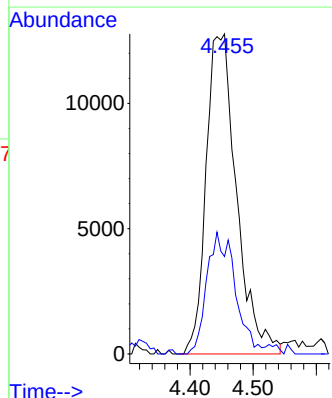
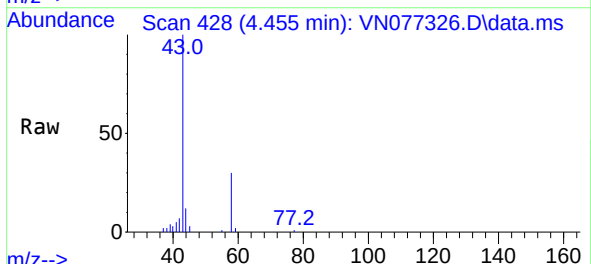
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

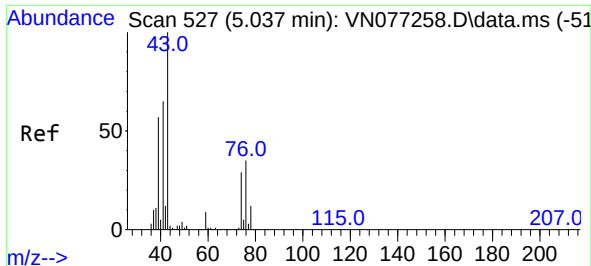
Tgt Ion: 59 Resp: 834  
Ion Ratio Lower Upper  
59 100  
57 7.4 8.3 12.5#



#16  
Acetone  
Concen: 18.528 ug/l  
RT: 4.455 min Scan# 428  
Delta R.T. 0.018 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 43 Resp: 42786  
Ion Ratio Lower Upper  
43 100  
58 30.4 29.0 43.6

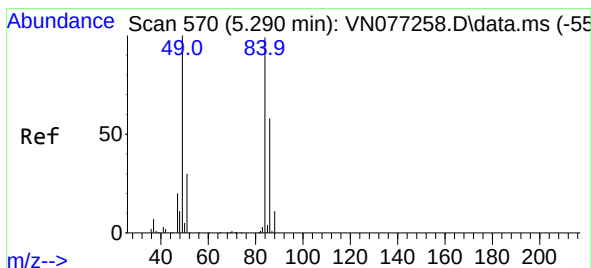
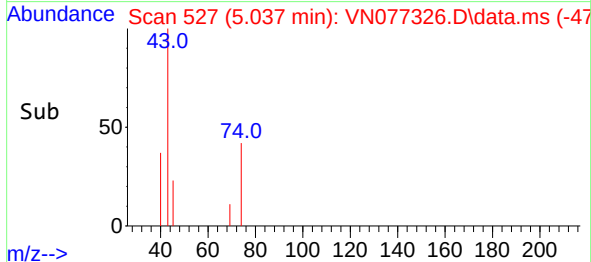
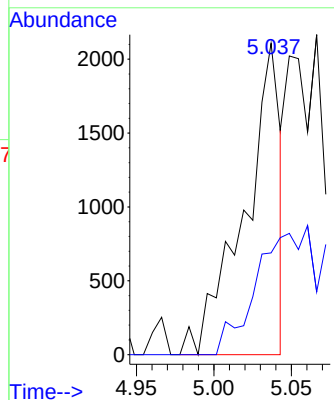
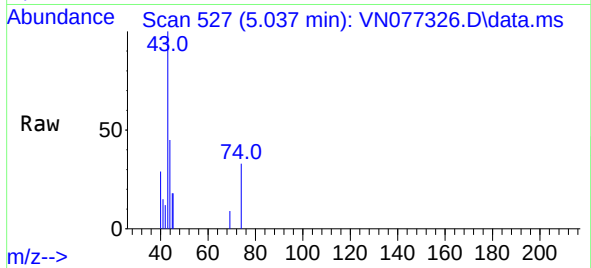




#18  
Methyl Acetate  
Concen: 0.387 ug/l  
RT: 5.037 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

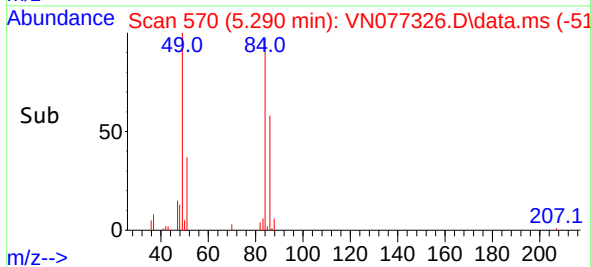
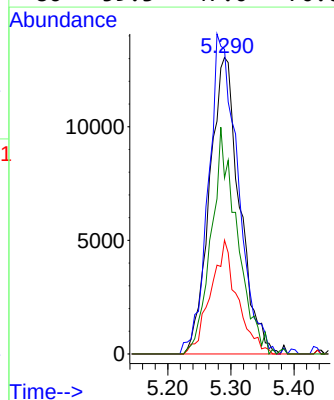
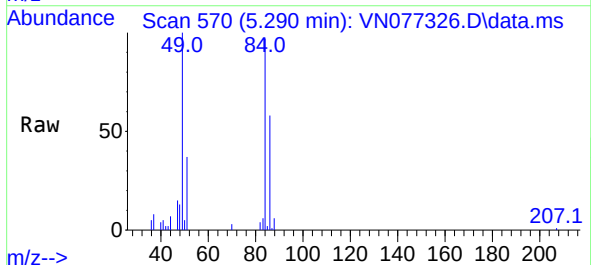
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

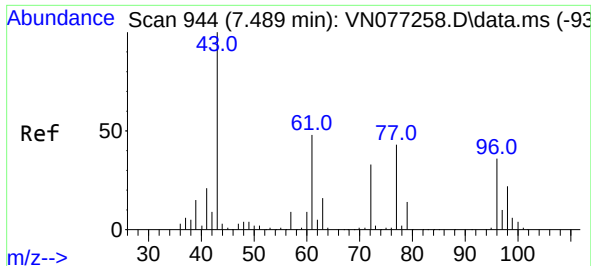
Tgt Ion: 43 Resp: 3406  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.4 35.2#



#20  
Methylene Chloride  
Concen: 6.603 ug/l  
RT: 5.290 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 84 Resp: 43063  
Ion Ratio Lower Upper  
84 100  
49 102.7 80.6 121.0  
51 38.4 24.4 36.6#  
86 59.3 47.0 70.6

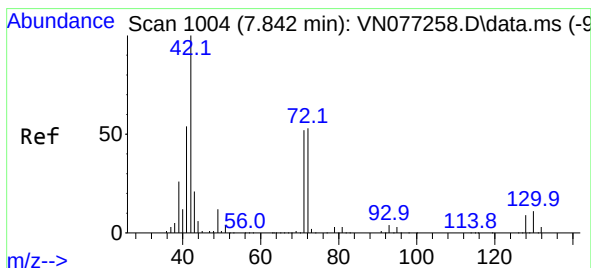
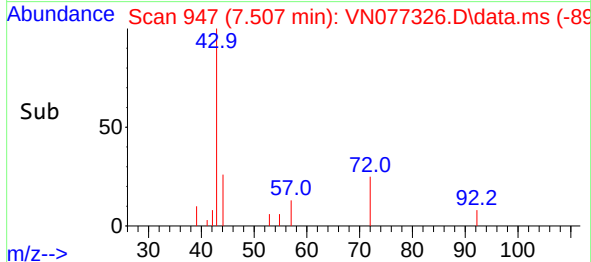
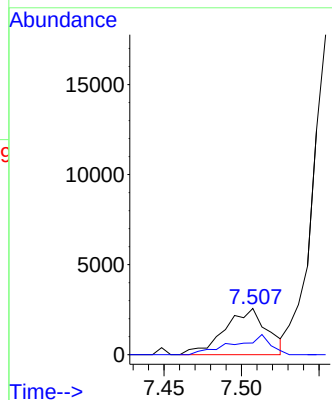
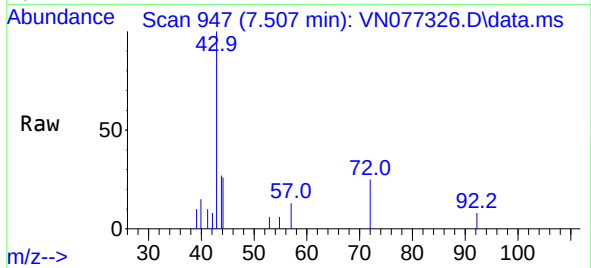




#25  
2-Butanone  
Concen: 1.307 ug/l  
RT: 7.507 min Scan# 944  
Delta R.T. 0.018 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

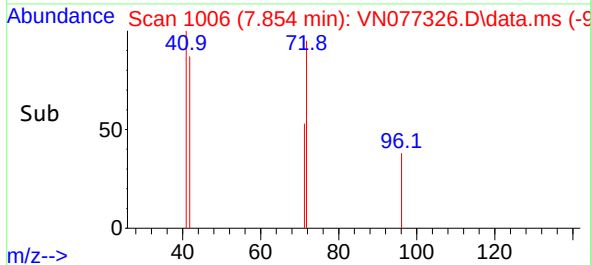
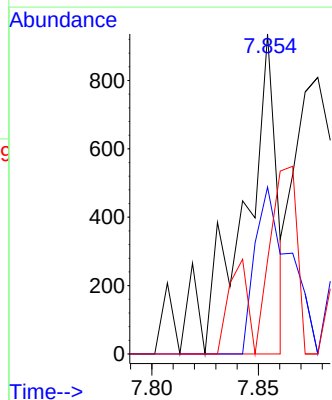
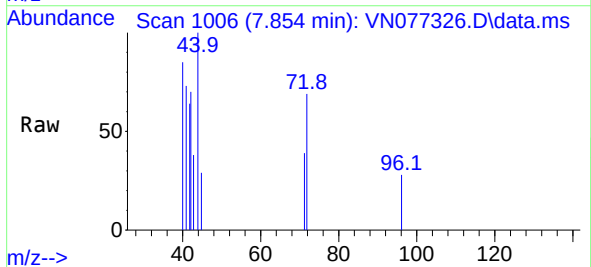
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

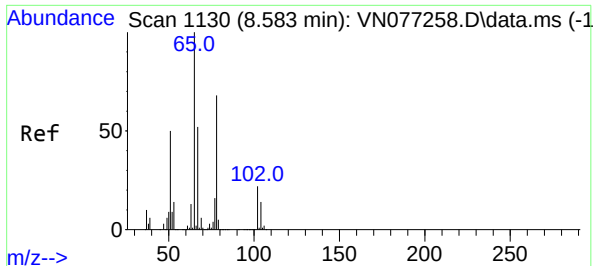
Tgt Ion: 43 Resp: 4898  
Ion Ratio Lower Upper  
43 100  
72 34.8 26.6 39.8



#29  
Tetrahydrofuran  
Concen: 0.434 ug/l  
RT: 7.854 min Scan# 1006  
Delta R.T. 0.012 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 42 Resp: 1046  
Ion Ratio Lower Upper  
42 100  
72 53.2 44.6 66.8  
71 16.3 41.3 61.9#

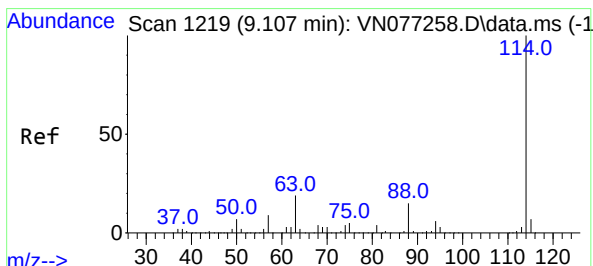
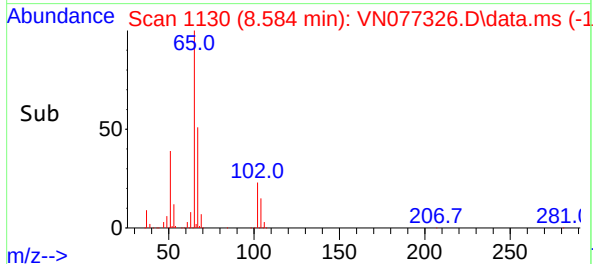
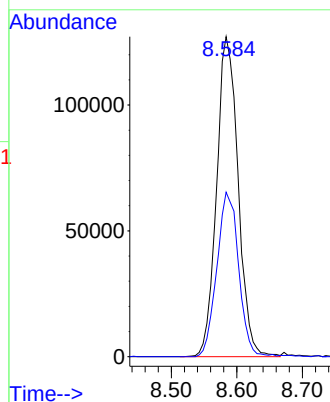
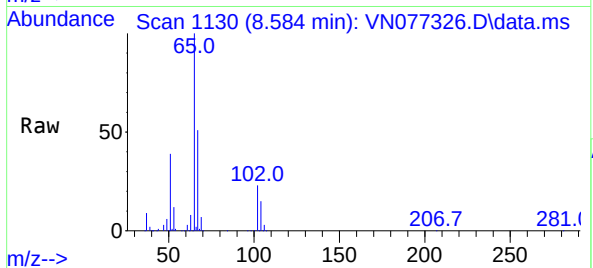




#33  
1,2-Dichloroethane-d4  
Concen: 46.135 ug/l  
RT: 8.584 min Scan# 1130  
Delta R.T. 0.001 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

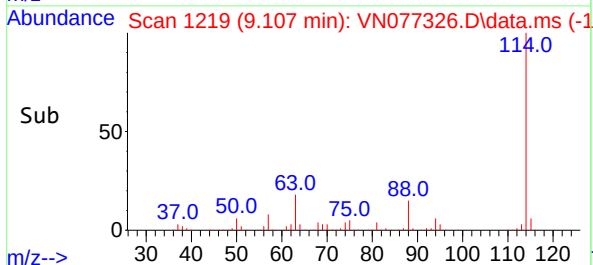
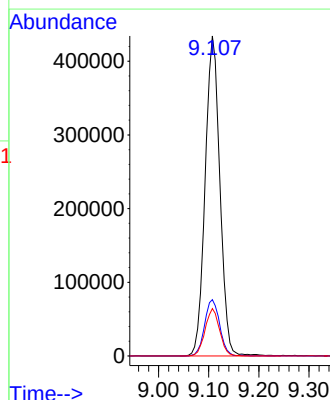
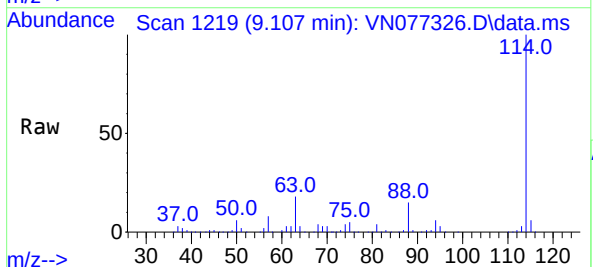
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

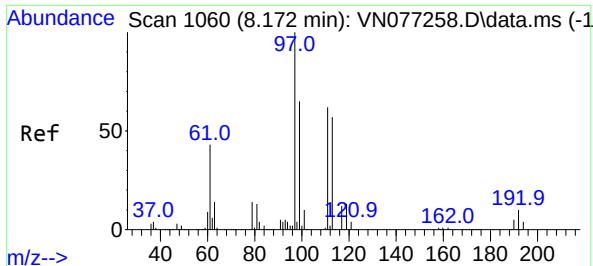
Tgt Ion: 65 Resp: 288955  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 108.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.107 min Scan# 1219  
Delta R.T. 0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 114 Resp: 888596  
Ion Ratio Lower Upper  
114 100  
63 17.6 0.0 37.8  
88 14.8 0.0 29.4

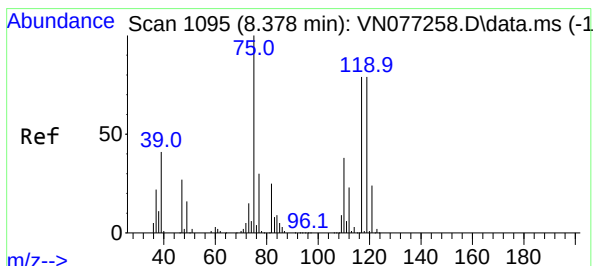
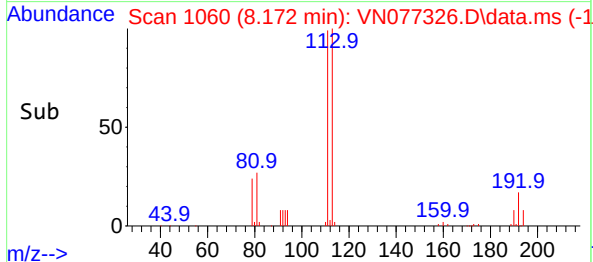
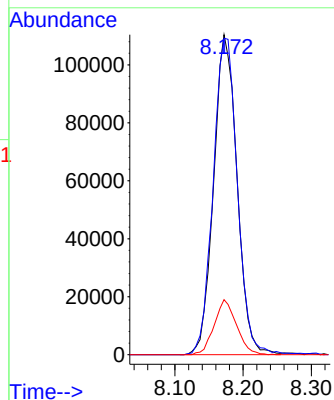
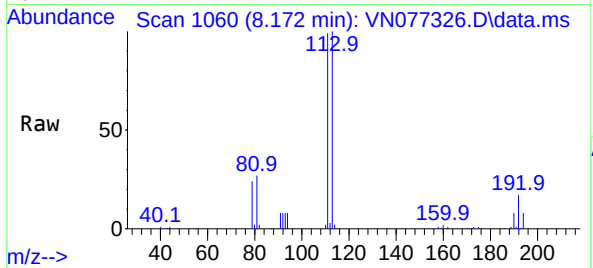




#35  
Dibromofluoromethane  
Concen: 46.286 ug/l  
RT: 8.172 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

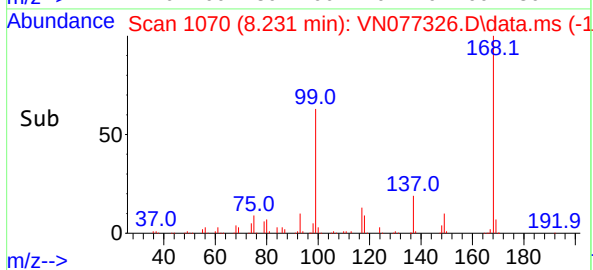
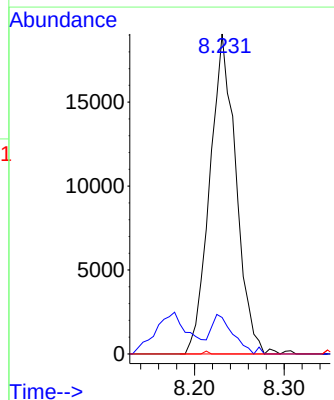
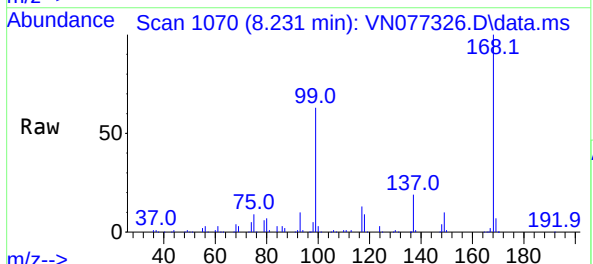
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

Tgt Ion:113 Resp: 263301  
Ion Ratio Lower Upper  
113 100  
111 102.7 83.4 125.0  
192 16.4 13.5 20.3

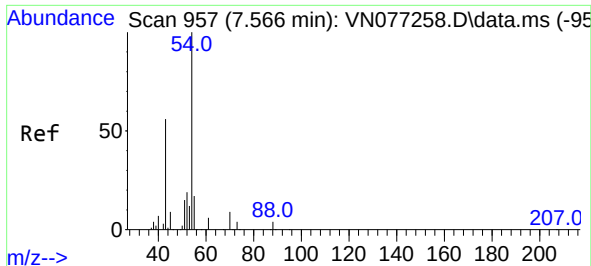


#36  
1,1-Dichloropropene  
Concen: 4.596 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.147 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 75 Resp: 38665  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.8 53.5#  
77 0.2 25.0 37.4#



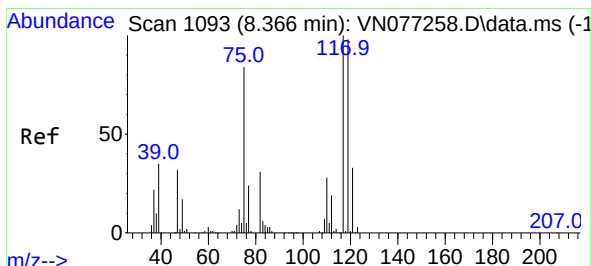
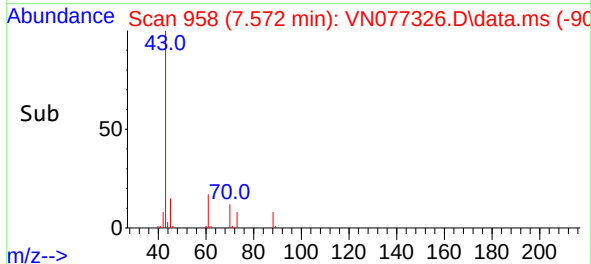
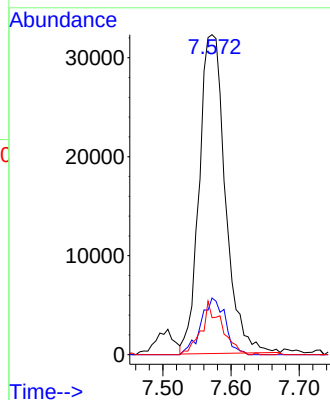
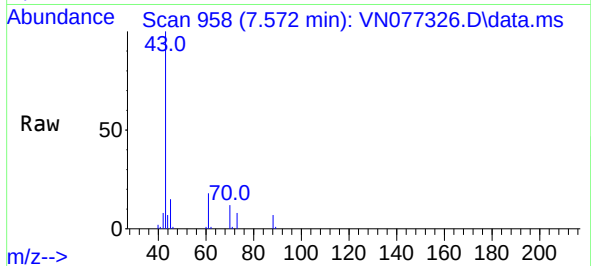




#37  
Ethyl Acetate  
Concen: 11.359 ug/l  
RT: 7.572 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

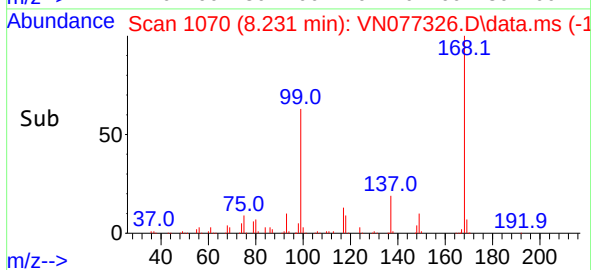
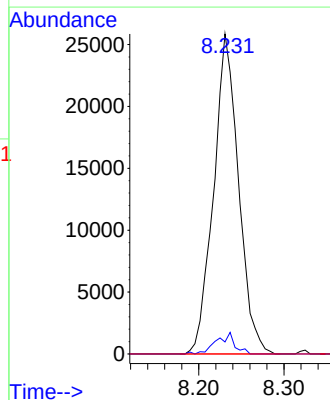
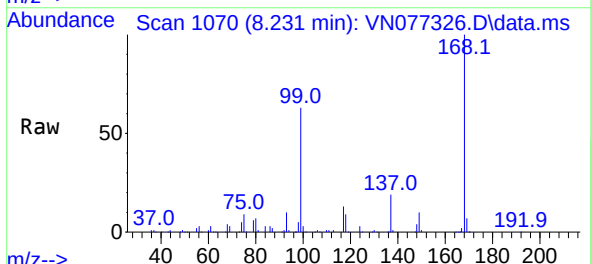
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

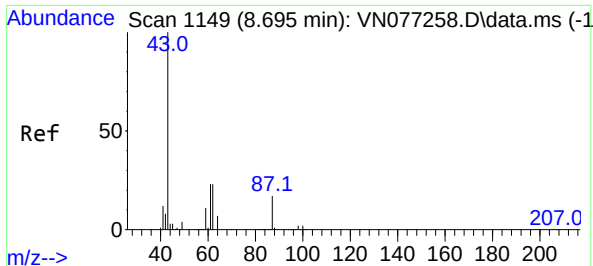
Tgt Ion: 43 Resp: 85507  
Ion Ratio Lower Upper  
43 100  
61 16.6 12.2 18.2  
70 13.1 10.0 15.0



#38  
Carbon Tetrachloride  
Concen: 6.107 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.135 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 117 Resp: 52642  
Ion Ratio Lower Upper  
117 100  
119 3.7 78.5 117.7#  
121 0.0 26.6 40.0#

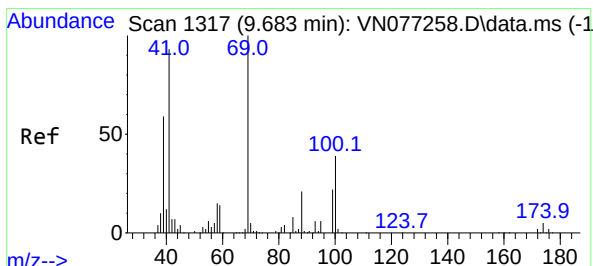
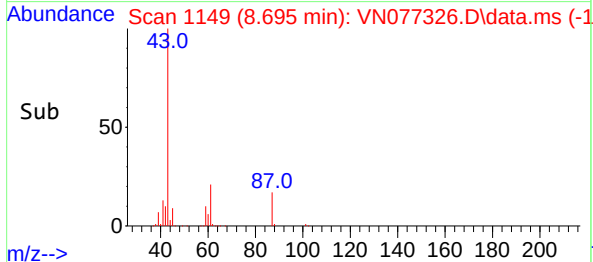
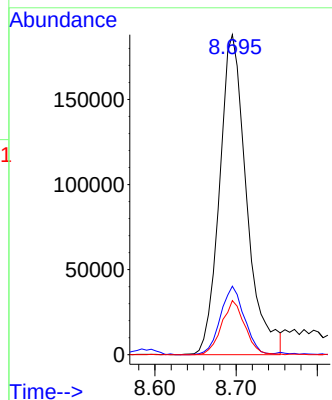
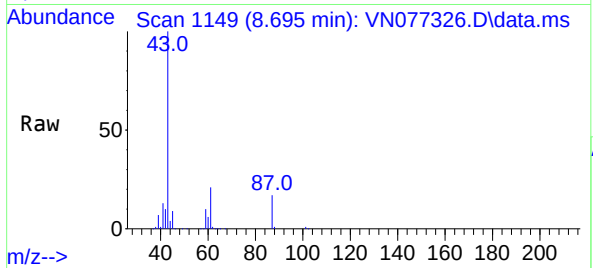




#43  
Isopropyl Acetate  
Concen: 31.327 ug/l  
RT: 8.695 min Scan# 1149  
Delta R.T. 0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

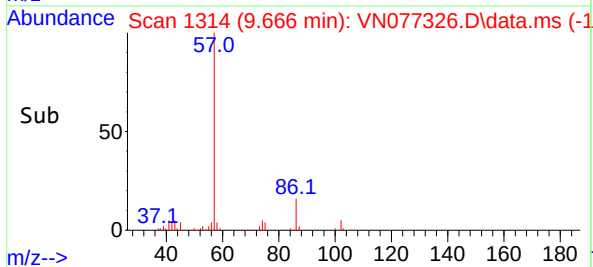
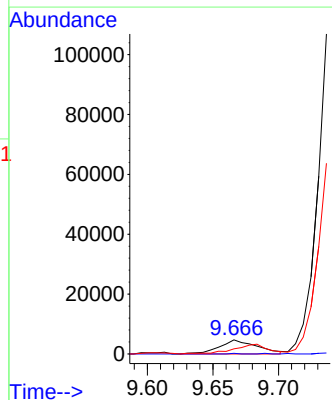
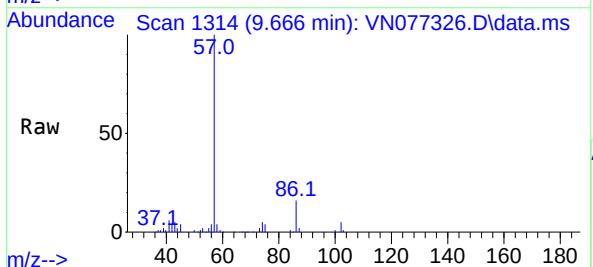
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

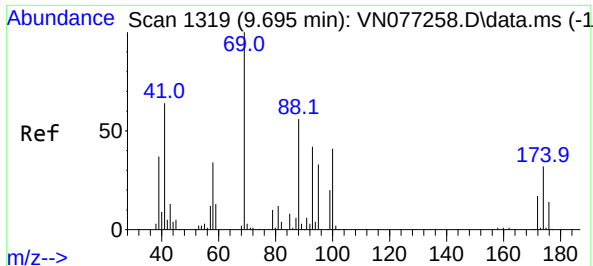
Tgt Ion: 43 Resp: 435137  
Ion Ratio Lower Upper  
43 100  
61 19.0 22.7 34.1#  
87 14.5 13.6 20.4



#48  
Methyl methacrylate  
Concen: 1.573 ug/l  
RT: 9.666 min Scan# 1314  
Delta R.T. -0.017 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 41 Resp: 9321  
Ion Ratio Lower Upper  
41 100  
69 0.8 85.0 127.6#  
39 0.0 53.5 80.3#

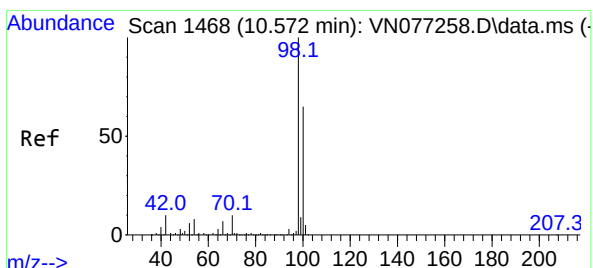
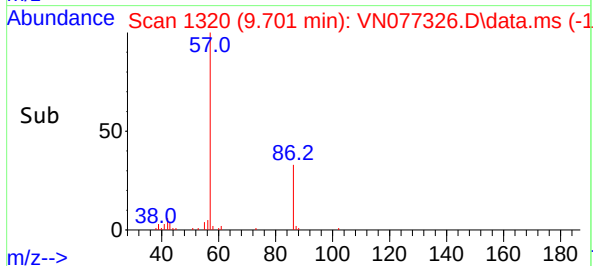
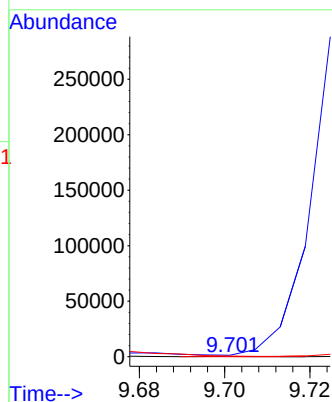
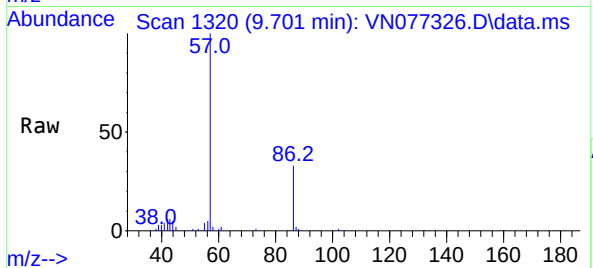




#49  
1,4-Dioxane  
Concen: 1.086 ug/l  
RT: 9.701 min Scan# 1319  
Delta R.T. 0.006 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

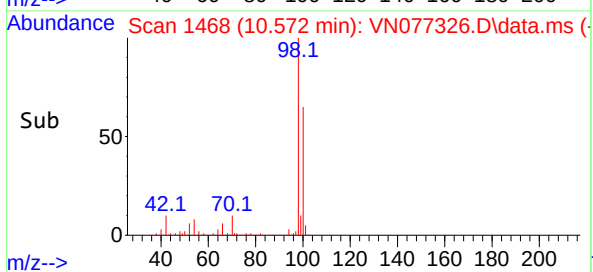
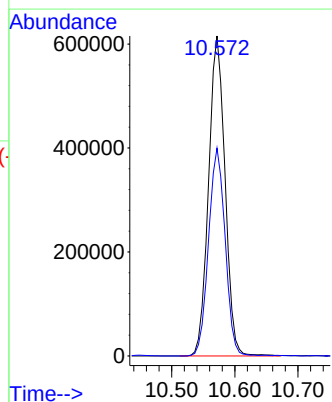
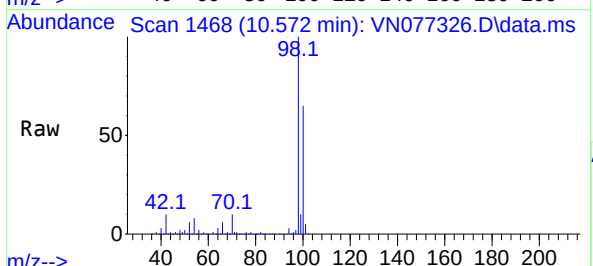
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

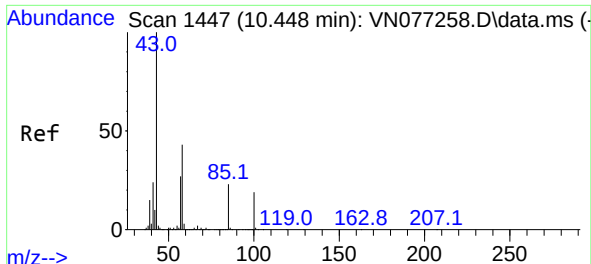
Tgt Ion: 88 Resp: 156  
Ion Ratio Lower Upper  
88 100  
43 0.0 17.0 25.6#  
58 0.0 49.8 74.6#



#50  
Toluene-d8  
Concen: 48.746 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 98 Resp: 1116287  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.3 76.9

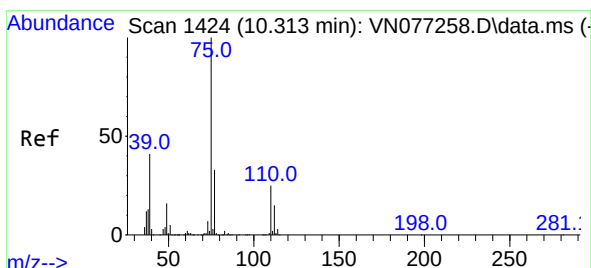
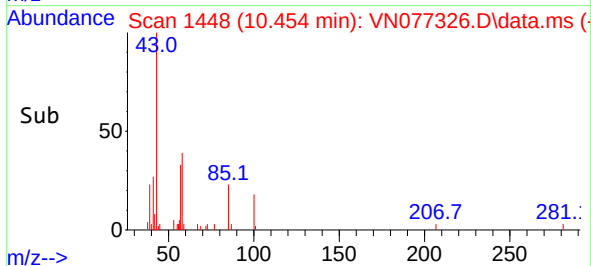
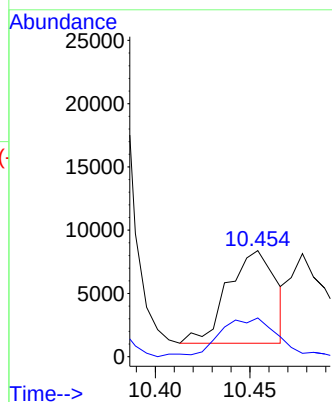
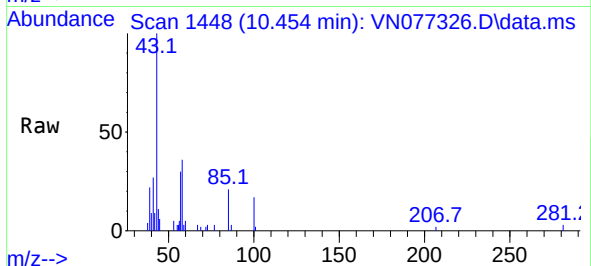




#51  
4-Methyl-2-Pentanone  
Concen: 1.612 ug/l  
RT: 10.454 min Scan# 1448  
Delta R.T. 0.006 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

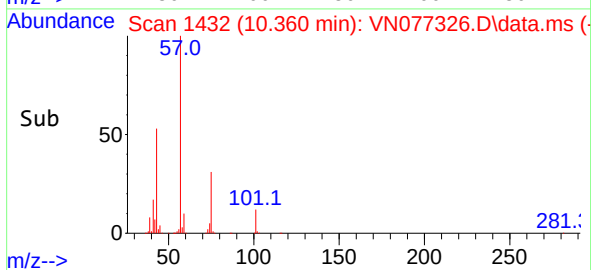
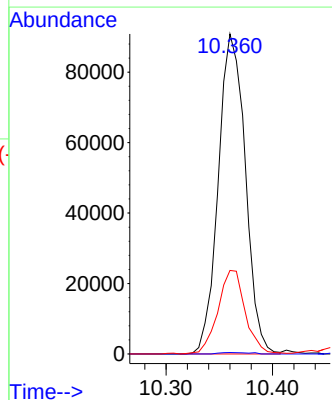
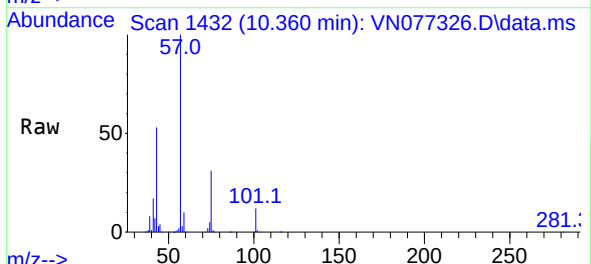
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

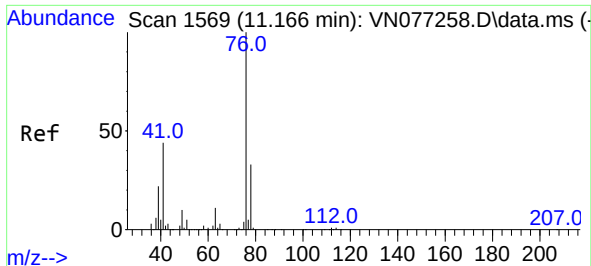
Tgt Ion: 43 Resp: 12943  
Ion Ratio Lower Upper  
43 100  
58 50.8 34.6 52.0



#54  
cis-1,3-Dichloropropene  
Concen: 14.755 ug/l  
RT: 10.360 min Scan# 1432  
Delta R.T. 0.047 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 75 Resp: 160177  
Ion Ratio Lower Upper  
75 100  
77 0.4 26.7 40.1#  
39 26.1 32.8 49.2#





#57

1,3-Dichloropropane

Concen: 2.016 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN077326.D

Acq: 13 Apr 2023 14:12

Instrument :

MSVOA\_N

ClientSampleId :

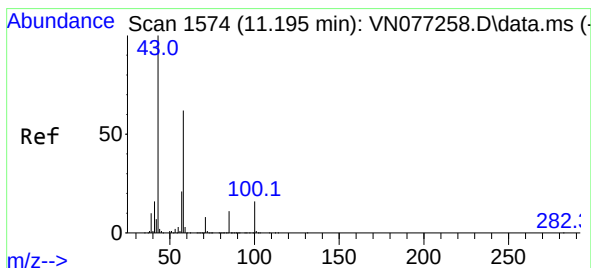
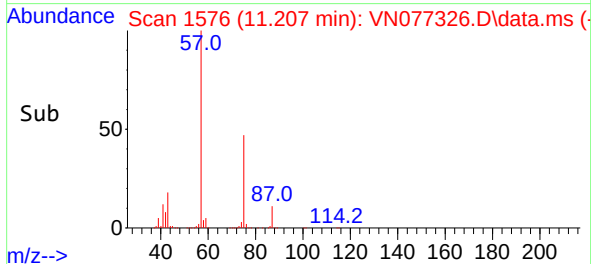
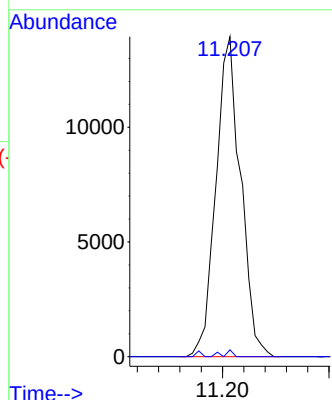
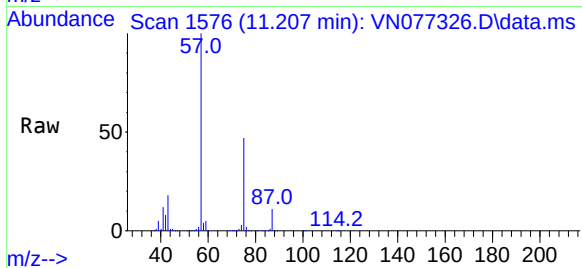
IDW-SO-G2-041123

Tgt Ion: 76 Resp: 22453

Ion Ratio Lower Upper

76 100

78 0.8 26.2 39.4#



#59

2-Hexanone

Concen: 47.170 ug/l

RT: 11.178 min Scan# 1571

Delta R.T. -0.017 min

Lab File: VN077326.D

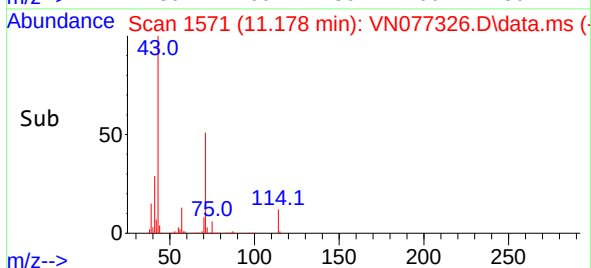
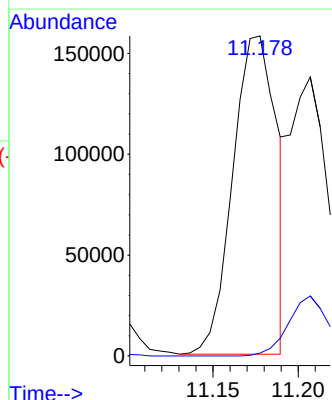
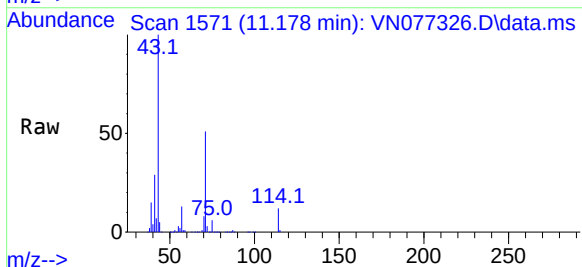
Acq: 13 Apr 2023 14:12

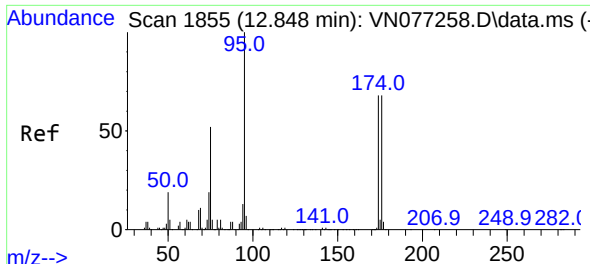
Tgt Ion: 43 Resp: 282146

Ion Ratio Lower Upper

43 100

58 0.0 30.9 92.5#



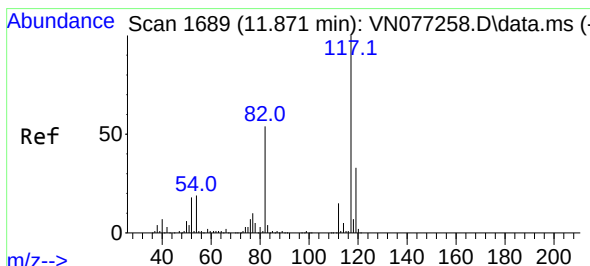
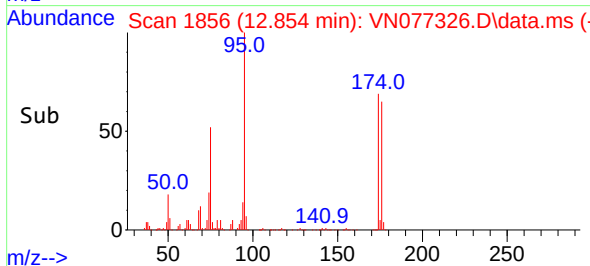
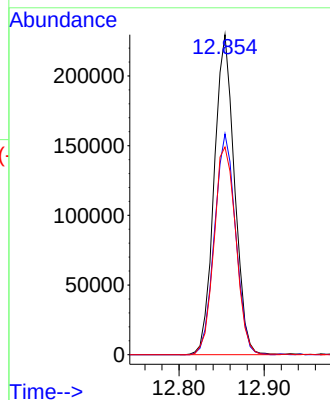
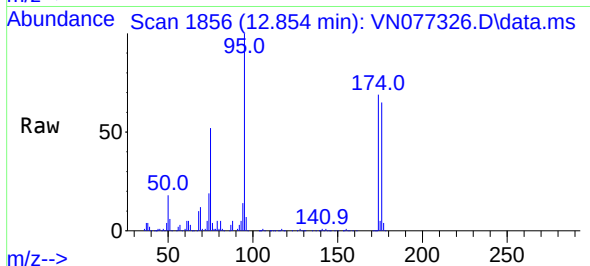


#62  
4-Bromofluorobenzene  
Concen: 50.067 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

Tgt Ion: 95 Resp: 381321

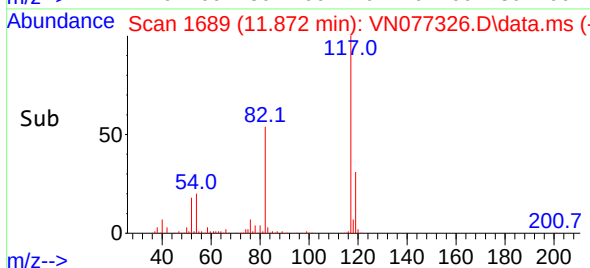
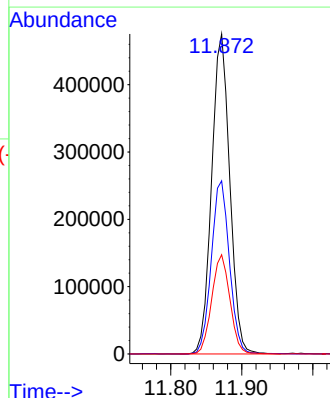
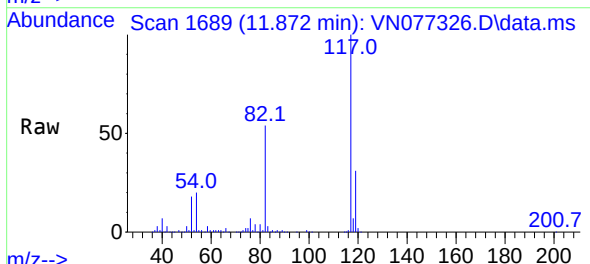
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 71.7  | 0.0   | 146.8 |
| 176 | 69.6  | 0.0   | 139.6 |

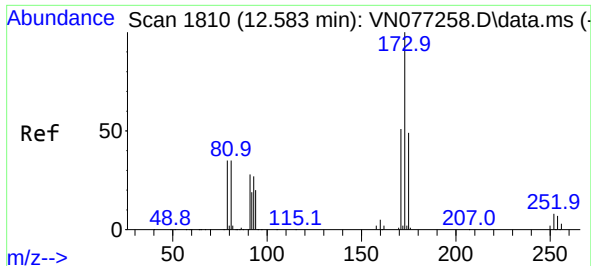


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 1689  
Delta R.T. 0.001 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion: 117 Resp: 840874

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 54.1  | 42.9  | 64.3  |
| 119 | 31.0  | 26.2  | 39.4  |

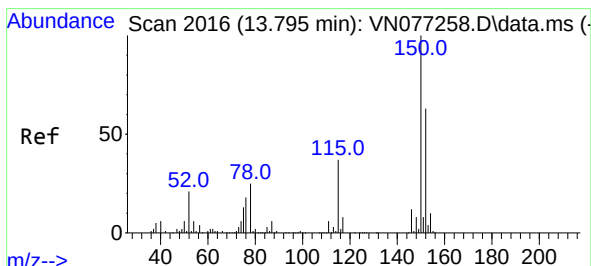
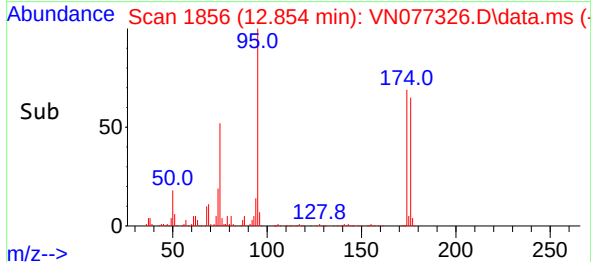
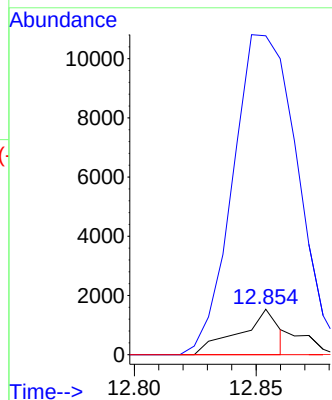
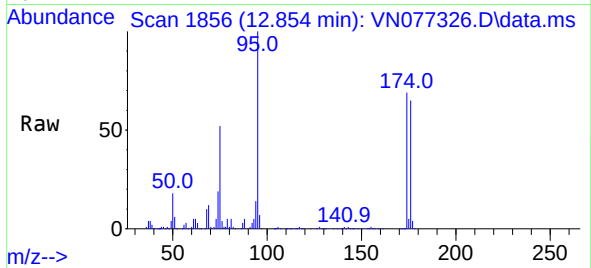




#71  
Bromoform  
Concen: 0.354 ug/l  
RT: 12.854 min Scan# 1810  
Delta R.T. 0.271 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

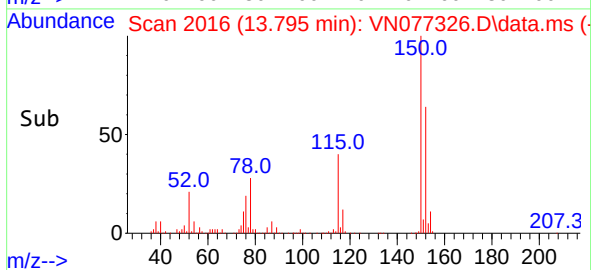
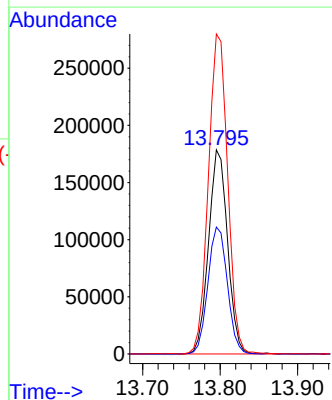
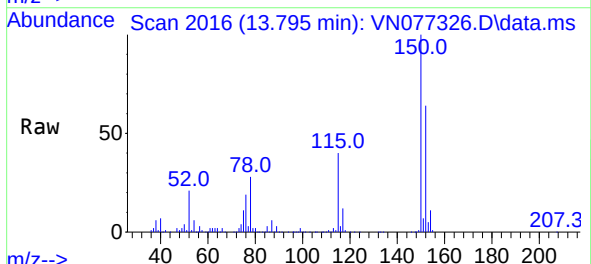
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

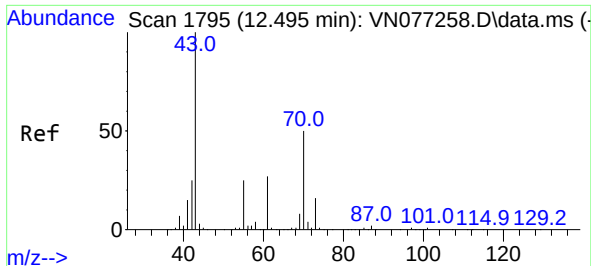
Tgt Ion:173 Resp: 1745  
Ion Ratio Lower Upper  
173 100  
175 884.0 24.1 72.4#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.795 min Scan# 2016  
Delta R.T. 0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Tgt Ion:152 Resp: 304444  
Ion Ratio Lower Upper  
152 100  
115 63.6 32.1 96.3  
150 158.9 0.0 354.8

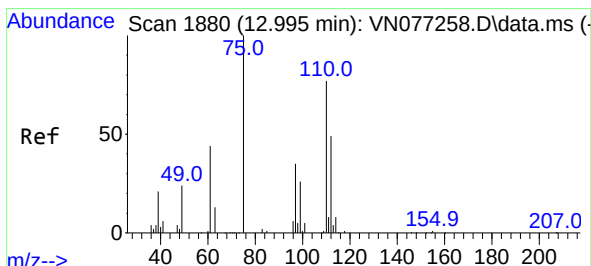
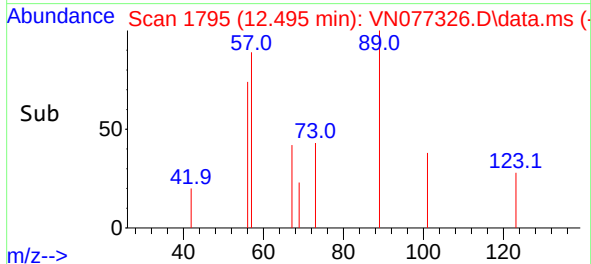
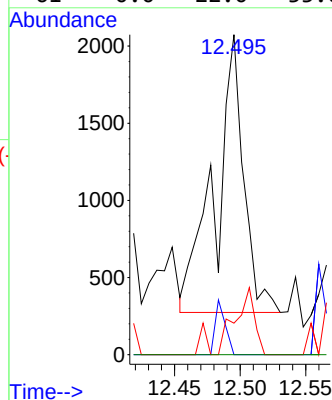
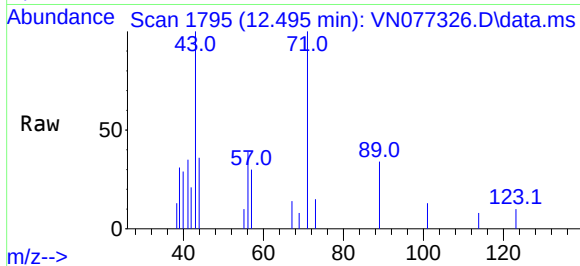




#74  
N-amy1 acetate  
Concen: 0.240 ug/l  
RT: 12.495 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

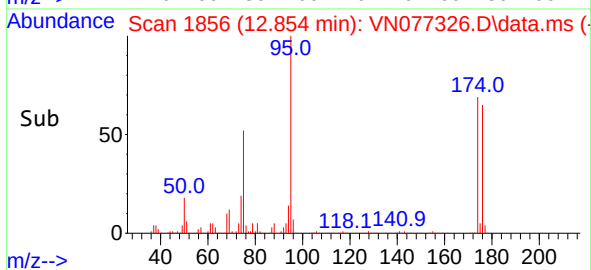
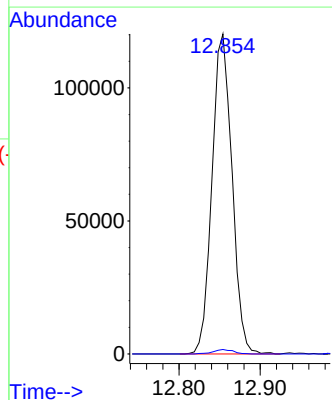
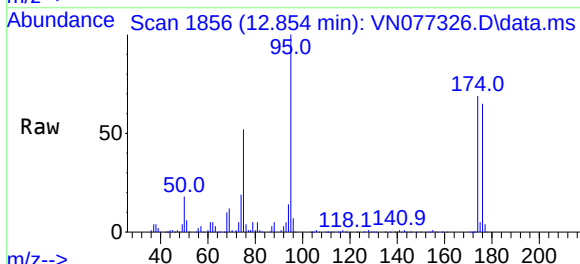
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2688  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 41.0  | 61.6# |
| 55       | 16.9  | 19.3  | 28.9# |
| 61       | 0.0   | 22.0  | 33.0# |

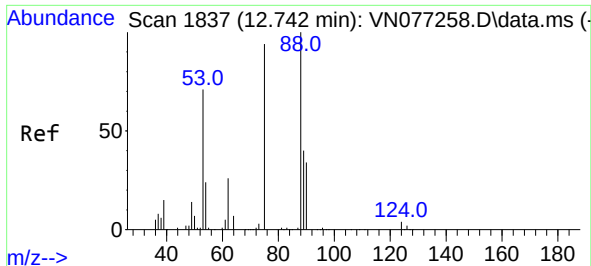


#76  
1,2,3-Trichloropropane  
Concen: 28.373 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. -0.141 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 205696 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 1.4   | 88.3  | 264.9# |

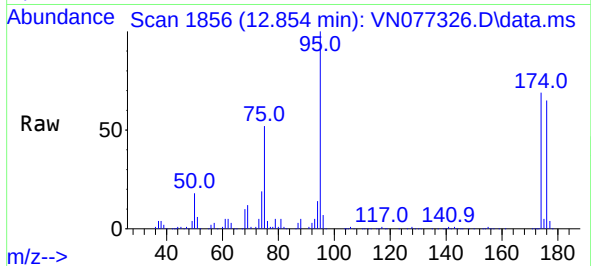






#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.849 ug/l  
RT: 12.854 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN077326.D  
Acq: 13 Apr 2023 14:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-G2-041123



Tgt Ion: 75 Resp: 205696  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.8 109.2#  
89 0.0 37.4 56.2#

