

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120423\  
 Data File : VN080349.D  
 Acq On : 04 Dec 2023 19:32  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 05 04:22:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

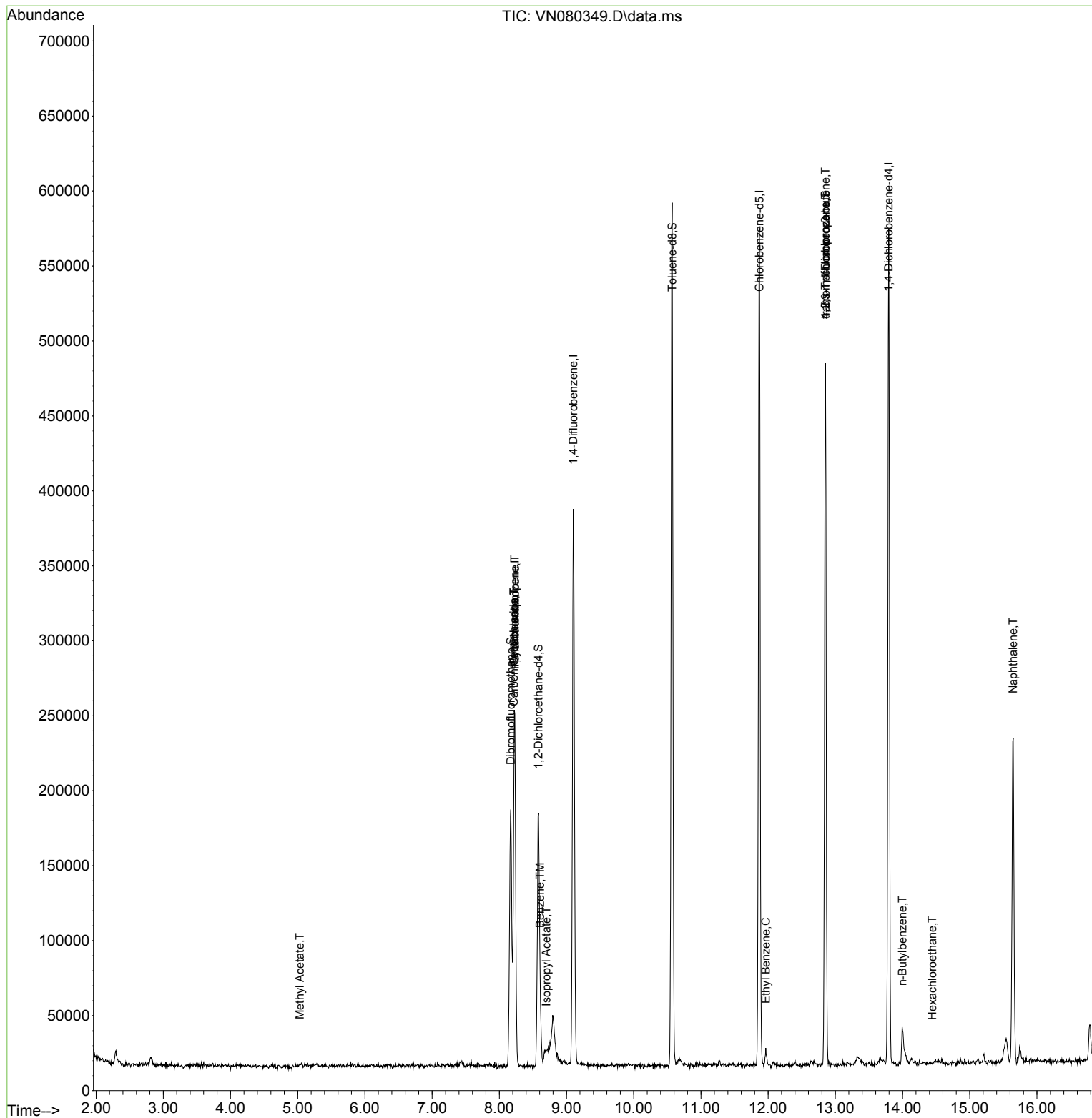
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 170011   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 311420   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 324741   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 147584   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 146347   | 52.134    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 104.260% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 117506   | 51.137    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 102.280% |          |
| 50) Toluene-d8                | 10.571 | 98    | 400657   | 48.369    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 96.740%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 159350   | 50.931    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 101.860% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 6) Chloroethane               | 3.118  | 64    | 42       | Below Cal | #          | 43       |
| 18) Methyl Acetate            | 5.030  | 43    | 1349     | 0.445     | ug/l #     | 83       |
| 31) Cyclohexane               | 8.224  | 56    | 3501     | 1.147     | ug/l #     | 21       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 12895    | 3.876     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 8.218  | 117   | 18873    | 4.470     | ug/l #     | 16       |
| 40) Benzene                   | 8.606  | 78    | 26537    | 2.807     | ug/l       | 95       |
| 43) Isopropyl Acetate         | 8.700  | 43    | 10193    | 2.270     | ug/l #     | 49       |
| 67) Ethyl Benzene             | 11.965 | 91    | 7315     | 0.559     | ug/l #     | 87       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 89944    | 24.873    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 89944    | 84.037    | ug/l #     | 15       |
| 89) n-Butylbenzene            | 14.000 | 91    | 1879     | 0.248     | ug/l #     | 39       |
| 90) Hexachloroethane          | 14.441 | 117   | 421      | 0.239     | ug/l #     | 21       |
| 95) Naphthalene               | 15.647 | 128   | 212797   | 25.310    | ug/l       | 100      |
| -----                         |        |       |          |           |            |          |

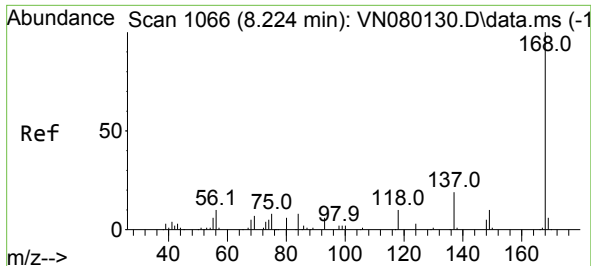
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120423\  
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Sample : IBLK  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 05 04:22:22 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 17 01:19:32 2023  
Response via : Initial Calibration

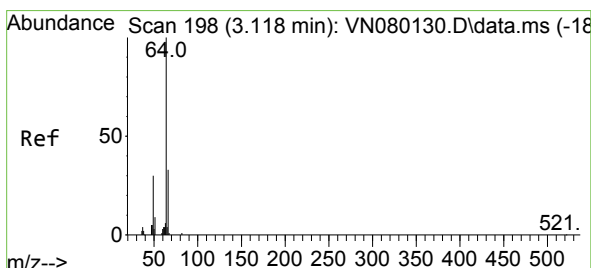
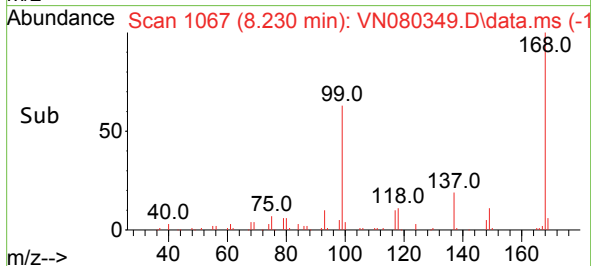
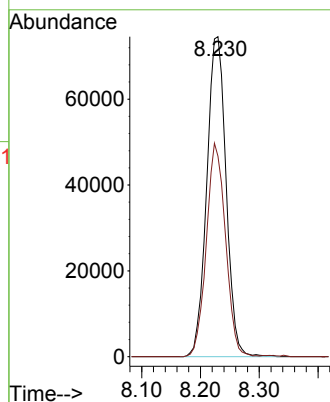
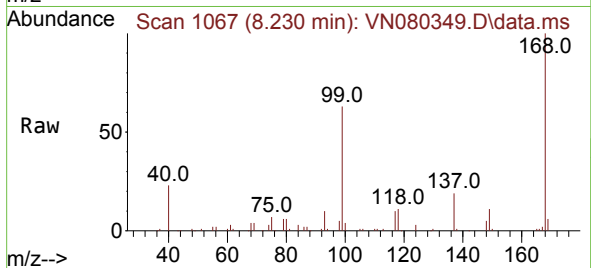




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

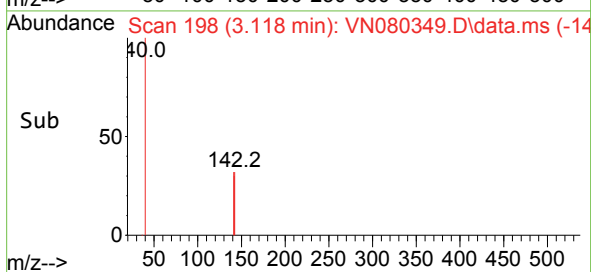
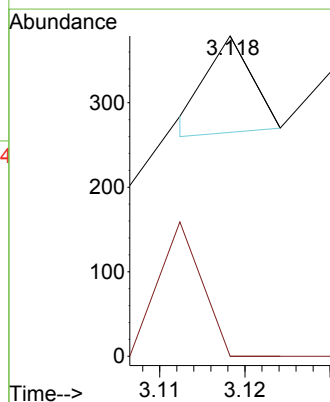
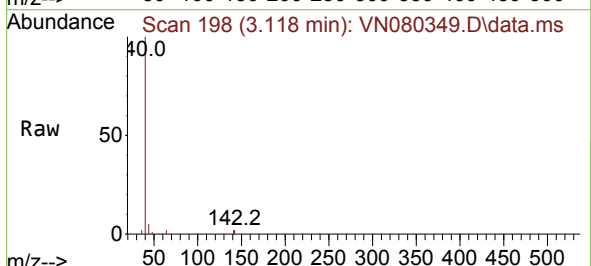
Instrument :  
MSVOA\_N  
ClientSampleId :

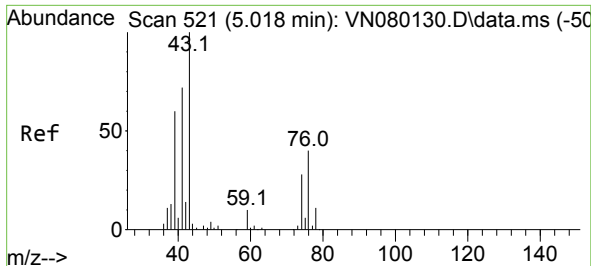
Tgt Ion:168 Resp: 170011  
Ion Ratio Lower Upper  
168 100  
99 62.6 53.0 79.6



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.118 min Scan# 198  
Delta R.T. 0.000 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

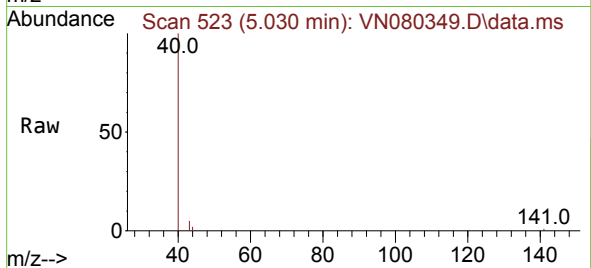
Tgt Ion: 64 Resp: 42  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#



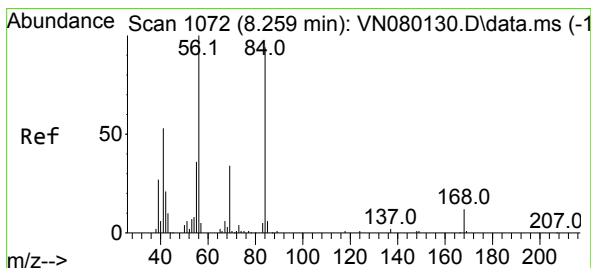
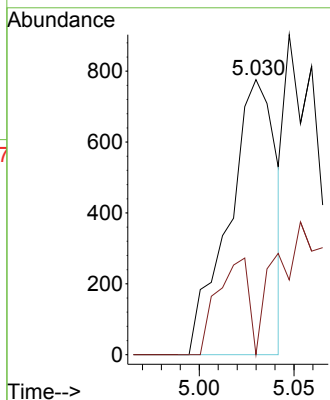
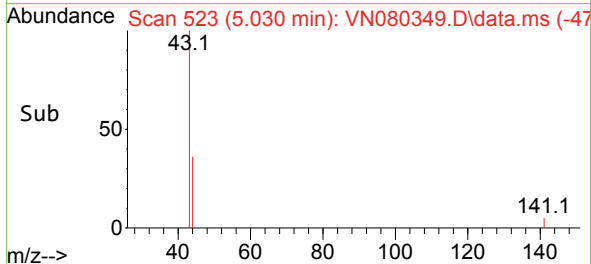


#18  
Methyl Acetate  
Concen: 0.445 ug/l  
RT: 5.030 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

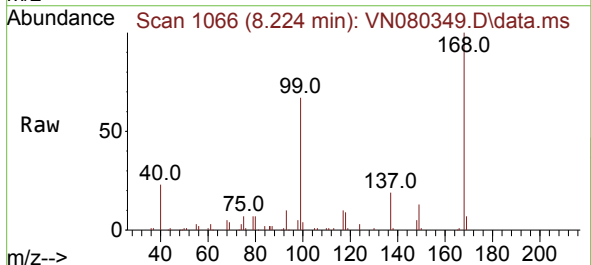
Instrument :  
MSVOA\_N  
ClientSampleId :



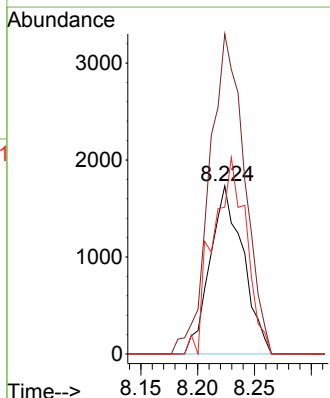
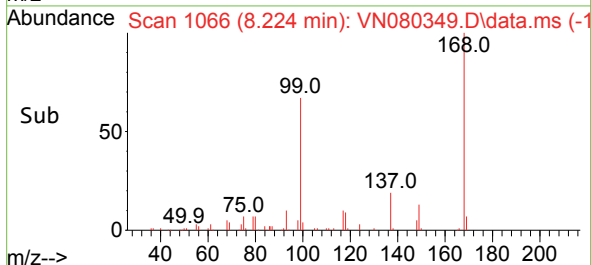
Tgt Ion: 43 Resp: 1349  
Ion Ratio Lower Upper  
43 100  
74 23.0 26.2 39.4#

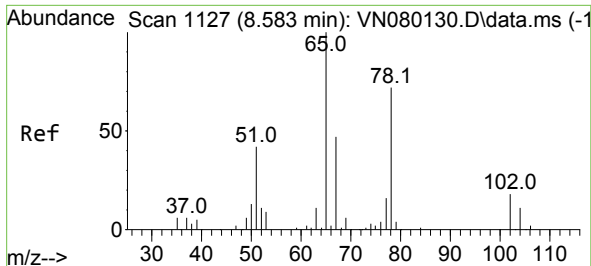


#31  
Cyclohexane  
Concen: 1.147 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32



Tgt Ion: 56 Resp: 3501  
Ion Ratio Lower Upper  
56 100  
69 190.5 26.8 40.2#  
84 87.4 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 52.134 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN080349.D

Acq: 04 Dec 2023 19:32

Instrument :

MSVOA\_N

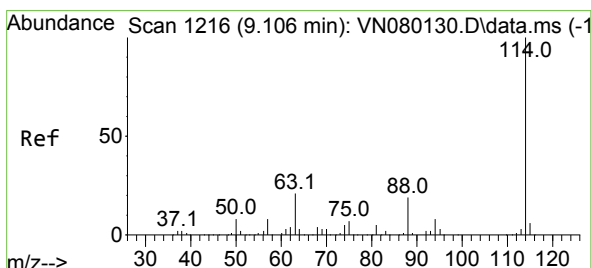
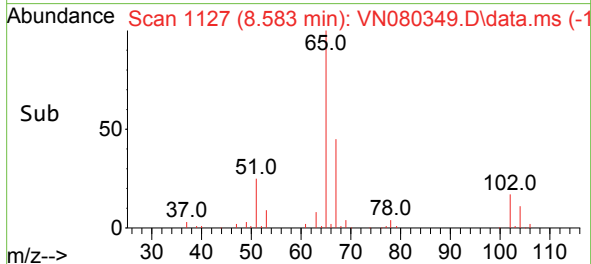
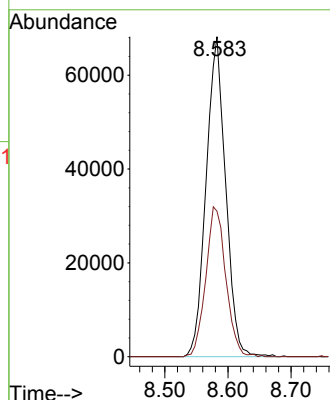
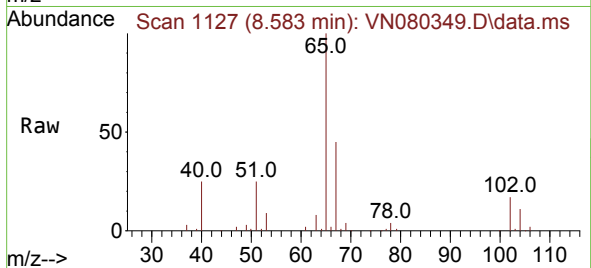
ClientSampleId :

Tgt Ion: 65 Resp: 146347

Ion Ratio Lower Upper

65 100

67 48.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN080349.D

Acq: 04 Dec 2023 19:32

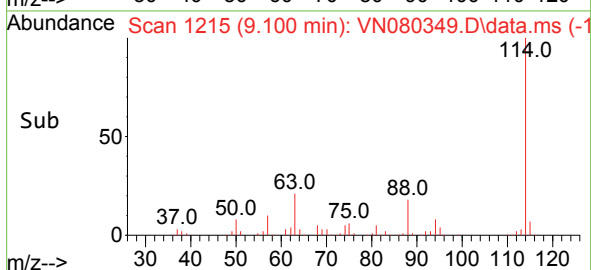
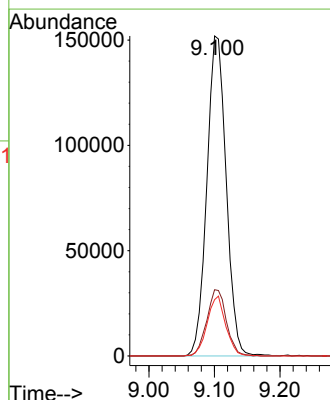
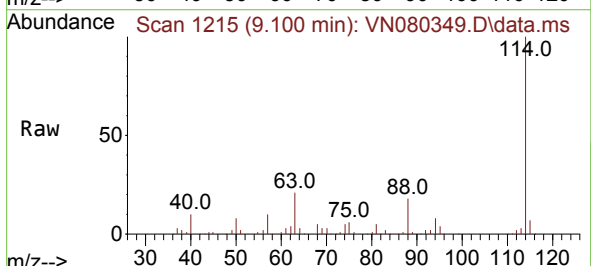
Tgt Ion: 114 Resp: 311420

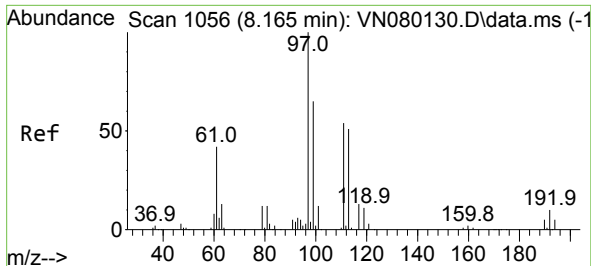
Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.4

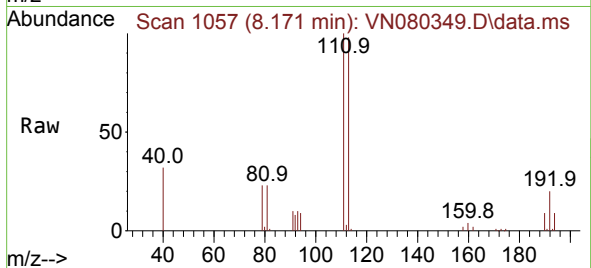
88 17.6 0.0 30.6



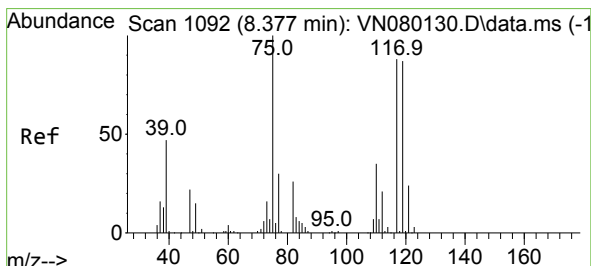
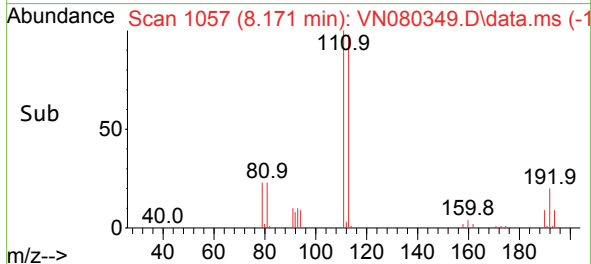
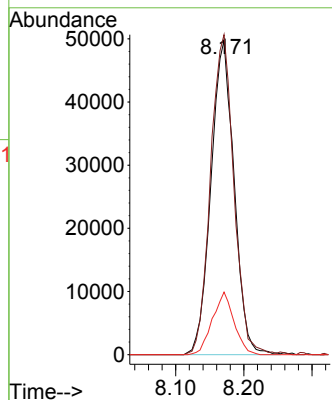


#35  
 Dibromofluoromethane  
 Concen: 51.137 ug/l  
 RT: 8.171 min Scan# 1056  
 Delta R.T. 0.006 min  
 Lab File: VN080349.D  
 Acq: 04 Dec 2023 19:32

Instrument :  
 MSVOA\_N  
 ClientSampleId :

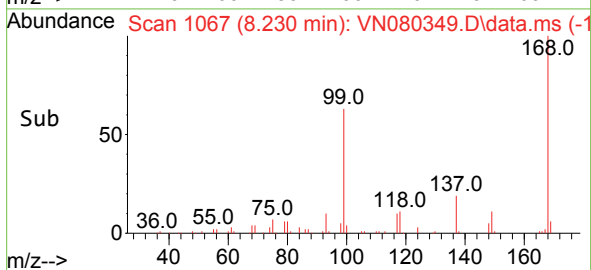
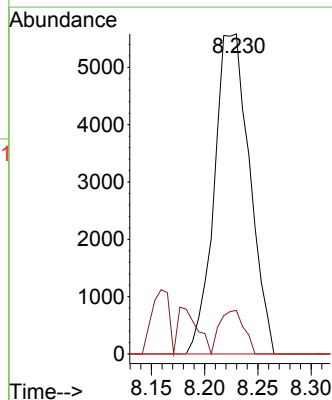
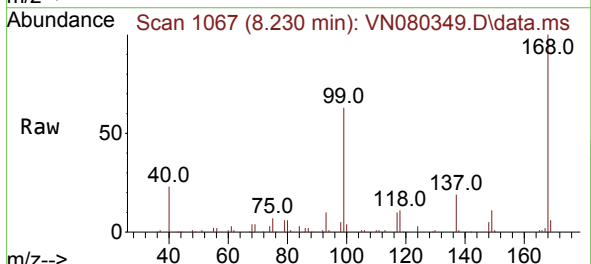


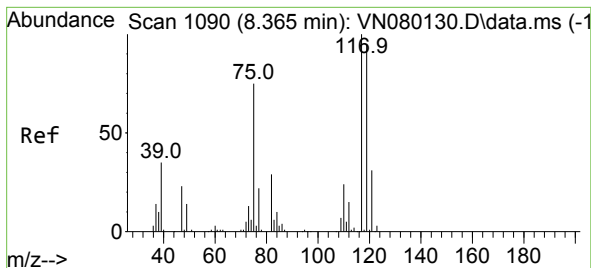
Tgt Ion:113 Resp: 117506  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 82.6 123.8  
 192 18.6 12.7 19.1



#36  
 1,1-Dichloropropene  
 Concen: 3.876 ug/l  
 RT: 8.230 min Scan# 1067  
 Delta R.T. -0.147 min  
 Lab File: VN080349.D  
 Acq: 04 Dec 2023 19:32

Tgt Ion: 75 Resp: 12895  
 Ion Ratio Lower Upper  
 75 100  
 110 9.4 19.1 57.3#  
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.470 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

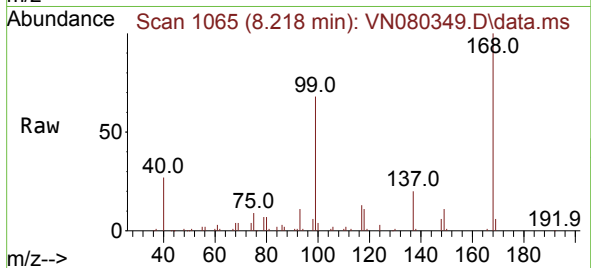
Lab File: VN080349.D

Acq: 04 Dec 2023 19:32

Instrument :

MSVOA\_N

ClientSampleId :



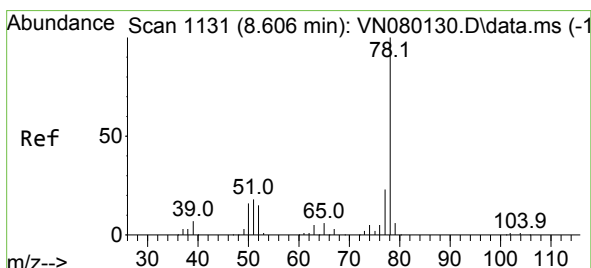
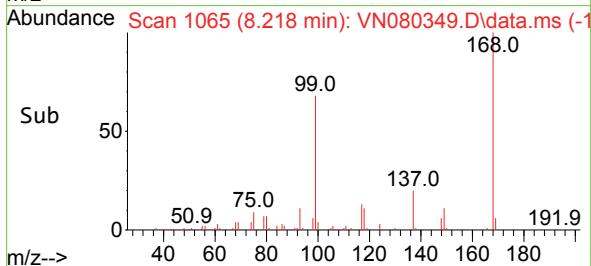
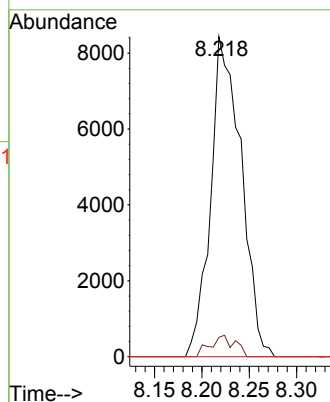
Tgt Ion:117 Resp: 18873

Ion Ratio Lower Upper

117 100

119 6.0 77.3 115.9#

121 0.0 23.3 34.9#



#40

Benzene

Concen: 2.807 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN080349.D

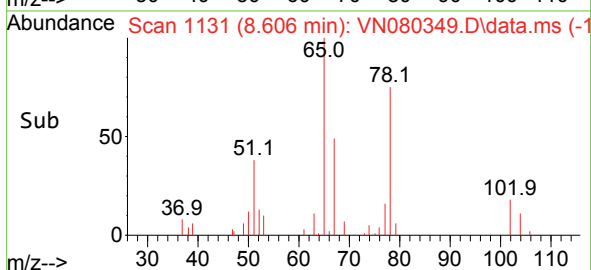
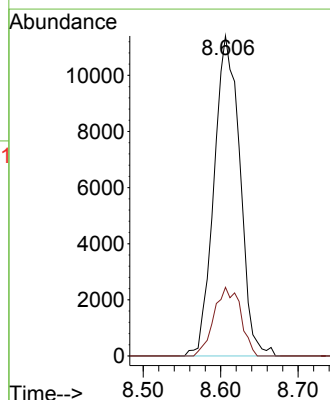
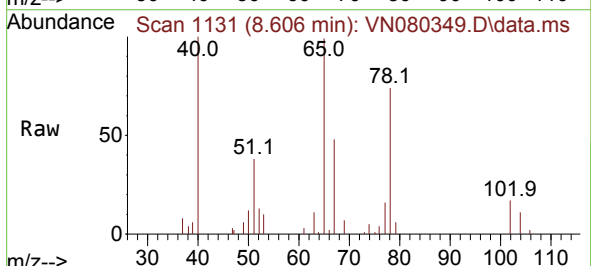
Acq: 04 Dec 2023 19:32

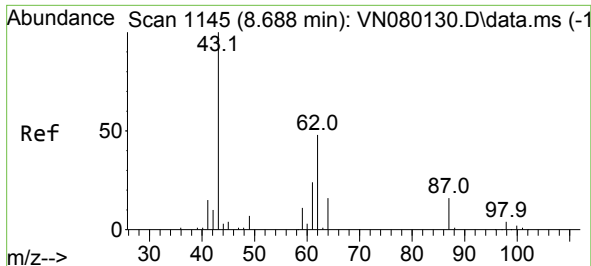
Tgt Ion: 78 Resp: 26537

Ion Ratio Lower Upper

78 100

77 21.4 19.0 28.6

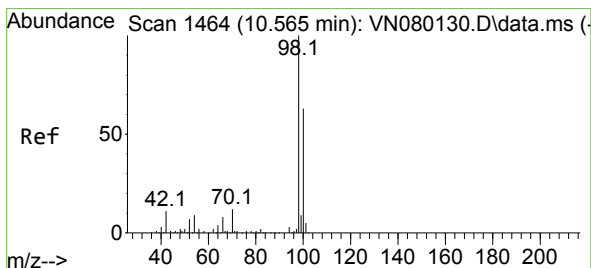
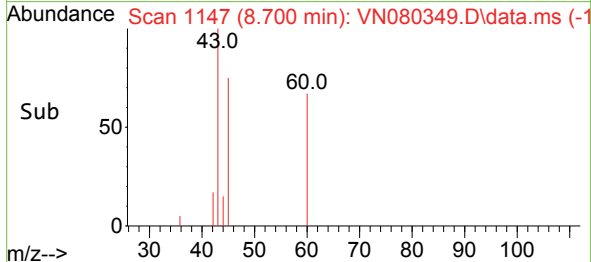
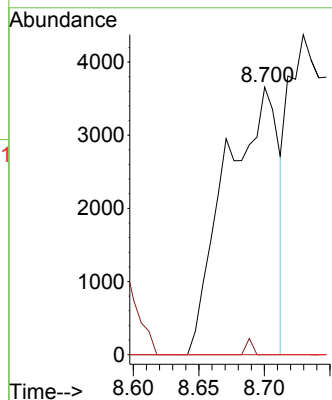
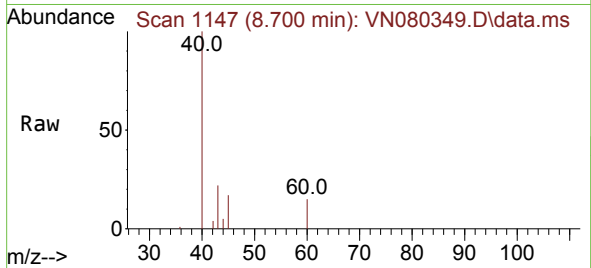




#43  
Isopropyl Acetate  
Concen: 2.270 ug/l  
RT: 8.700 min Scan# 1145  
Delta R.T. 0.012 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

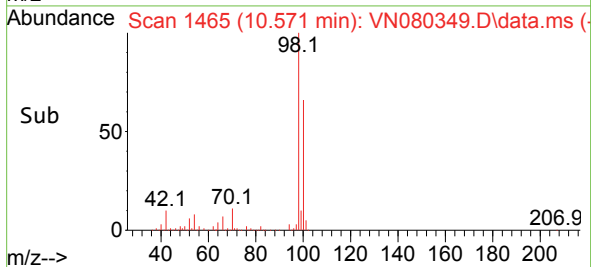
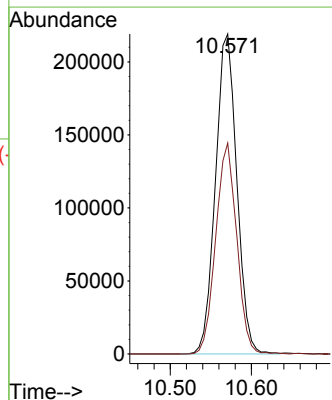
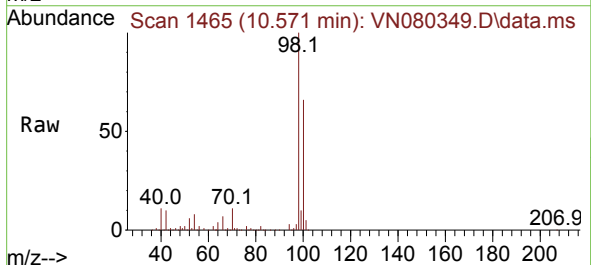
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 43 Resp: 10193  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#

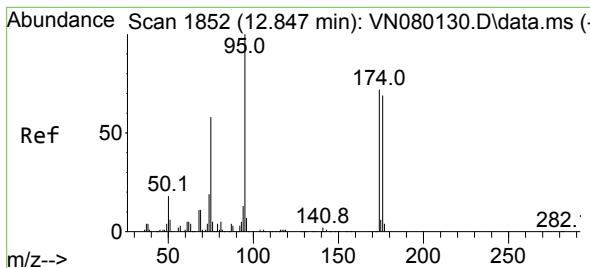


#50  
Toluene-d8  
Concen: 48.369 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

Tgt Ion: 98 Resp: 400657  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.0 78.0



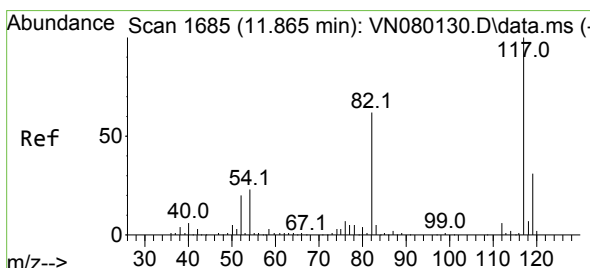
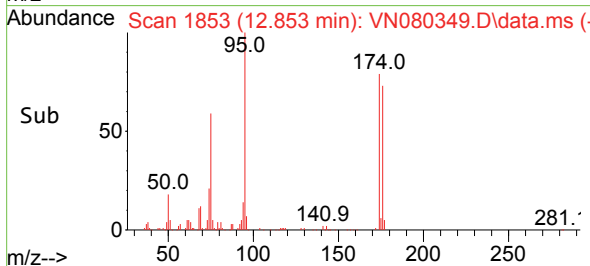
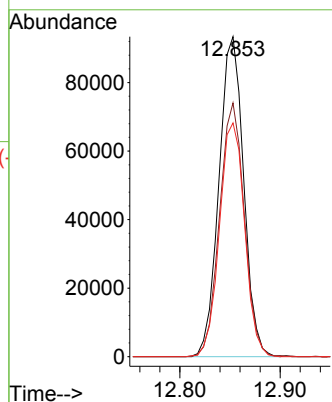
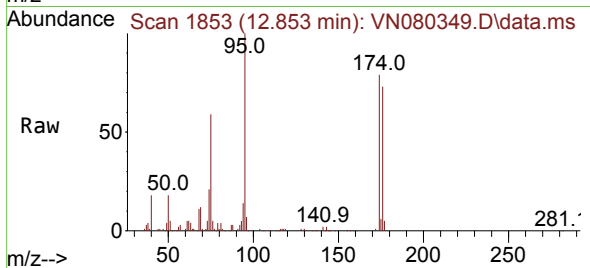




#62  
4-Bromofluorobenzene  
Concen: 50.931 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

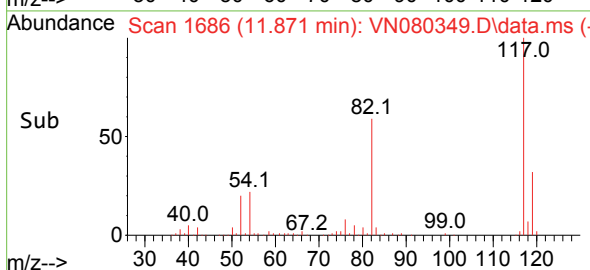
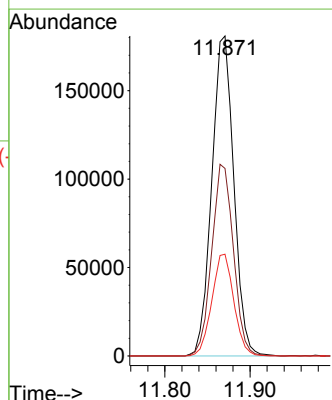
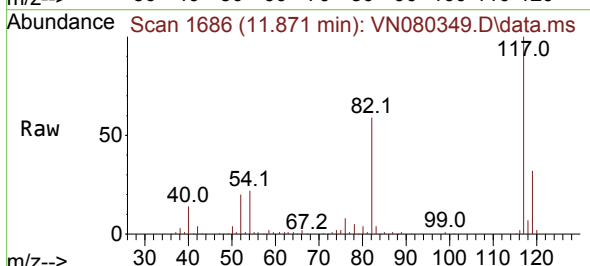
Instrument :  
MSVOA\_N  
ClientSampleId :

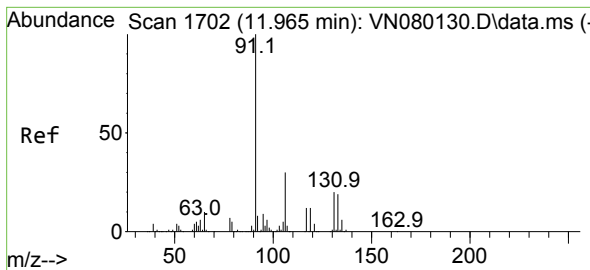
Tgt Ion: 95 Resp: 159350  
Ion Ratio Lower Upper  
95 100  
174 79.6 0.0 143.8  
176 74.6 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

Tgt Ion: 117 Resp: 324741  
Ion Ratio Lower Upper  
117 100  
82 58.6 44.0 66.0  
119 31.8 25.6 38.4

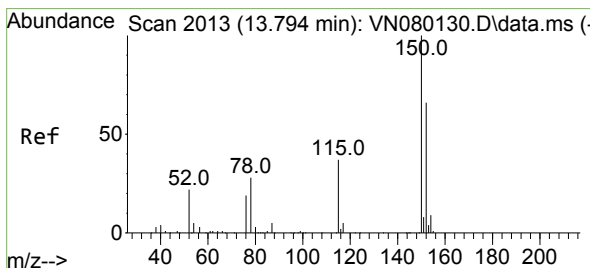
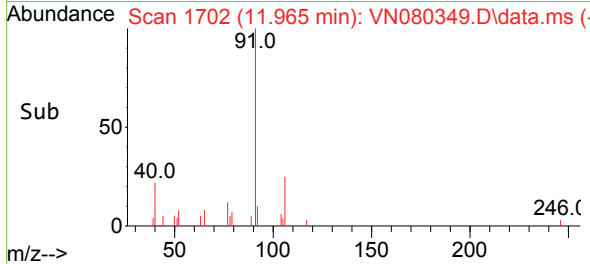
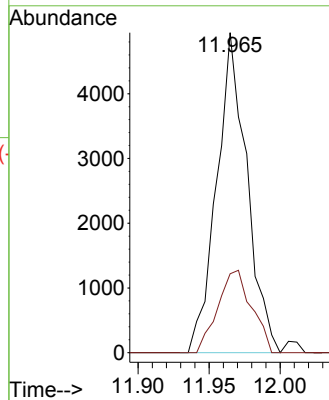
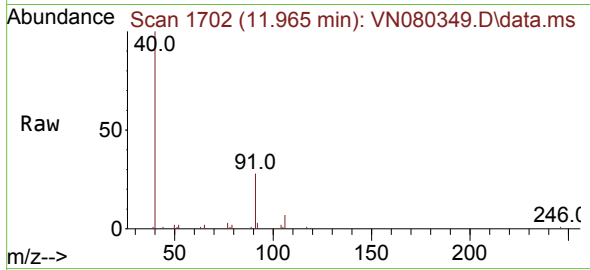




#67  
Ethyl Benzene  
Concen: 0.559 ug/l  
RT: 11.965 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

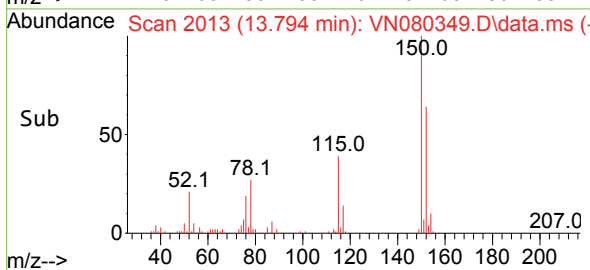
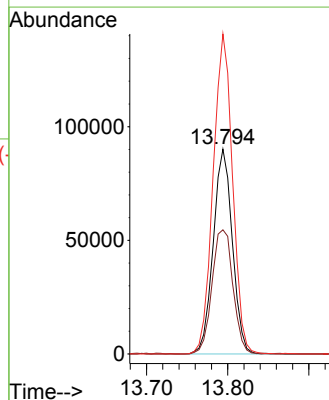
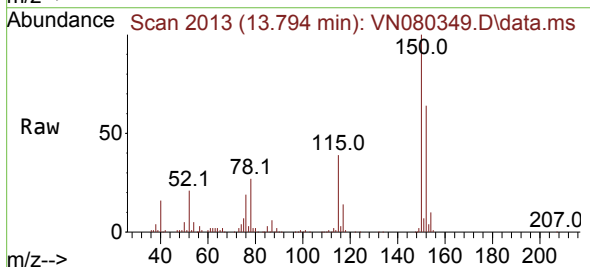
Instrument :  
MSVOA\_N  
ClientSampleId :

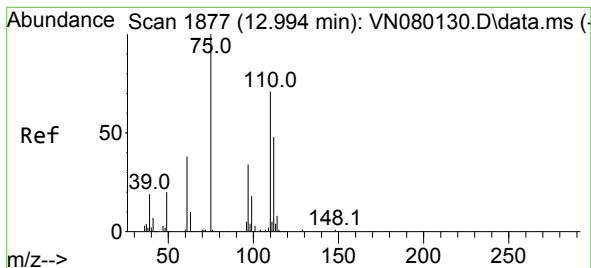
Tgt Ion: 91 Resp: 7315  
Ion Ratio Lower Upper  
91 100  
106 24.7 25.6 38.4#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

Tgt Ion:152 Resp: 147584  
Ion Ratio Lower Upper  
152 100  
115 66.4 32.3 96.8  
150 158.4 0.0 355.8

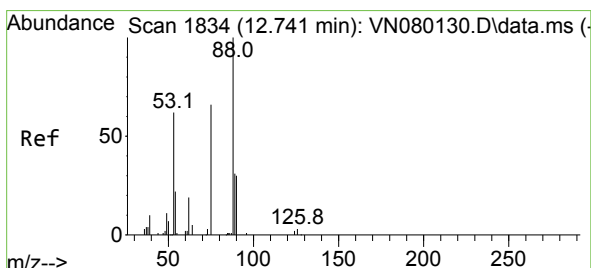
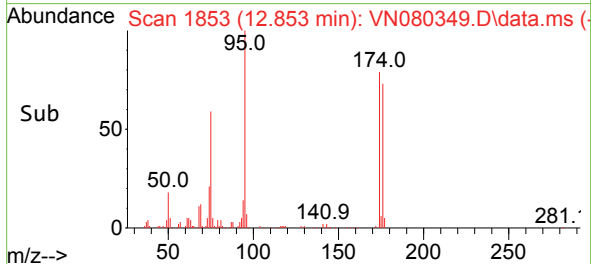
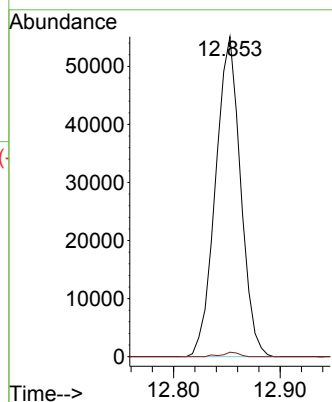
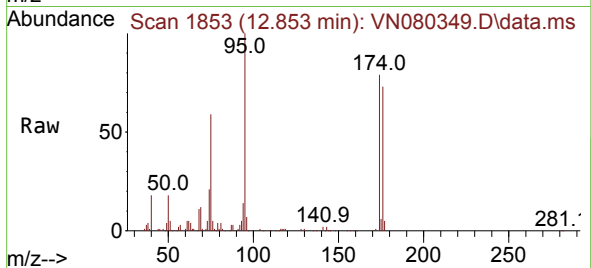




#76  
1,2,3-Trichloropropane  
Concen: 24.873 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

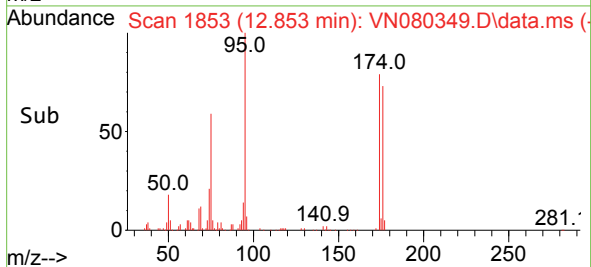
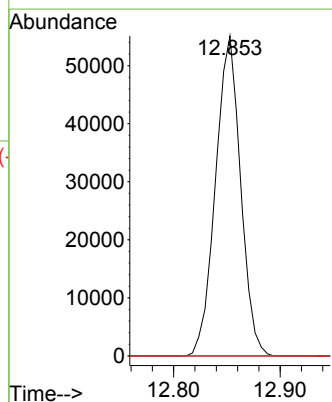
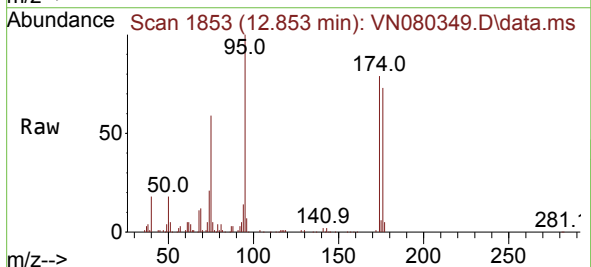
Instrument :  
MSVOA\_N  
ClientSampleId :

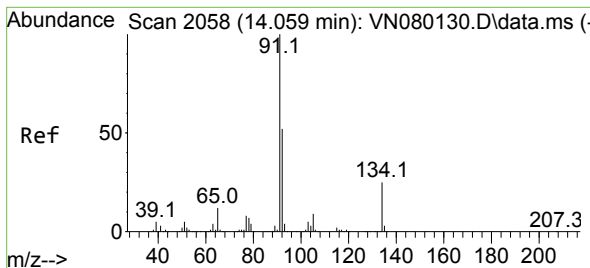
Tgt Ion: 75 Resp: 89944  
Ion Ratio Lower Upper  
75 100  
77 1.0 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 84.037 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN080349.D  
Acq: 04 Dec 2023 19:32

Tgt Ion: 75 Resp: 89944  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#





#89

n-Butylbenzene

Concen: 0.248 ug/l

RT: 14.000 min Scan# 2058

Delta R.T. -0.059 min

Lab File: VN080349.D

Acq: 04 Dec 2023 19:32

Instrument :

MSVOA\_N

ClientSampleId :

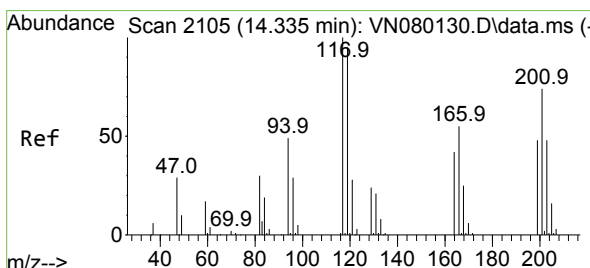
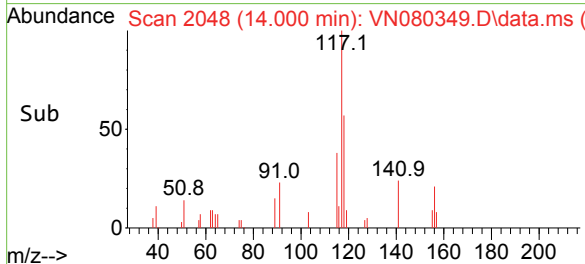
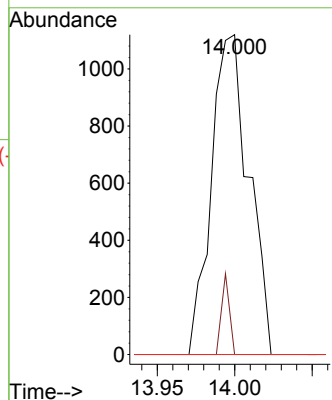
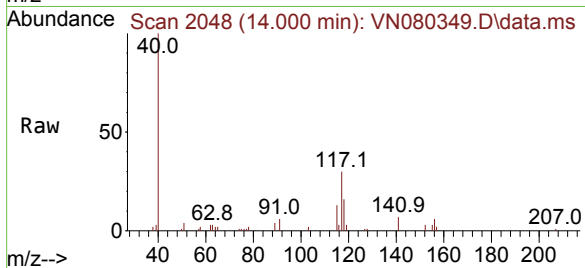
Tgt Ion: 91 Resp: 1879

Ion Ratio Lower Upper

91 100

92 5.3 26.4 79.0#

134 0.0 12.6 37.6#



#90

Hexachloroethane

Concen: 0.239 ug/l

RT: 14.441 min Scan# 2123

Delta R.T. 0.106 min

Lab File: VN080349.D

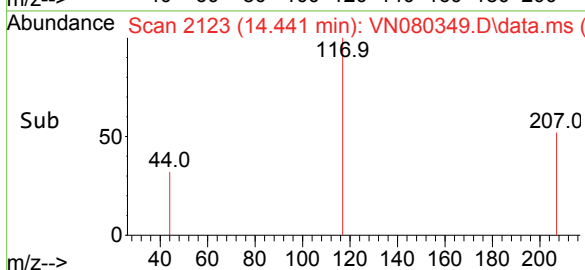
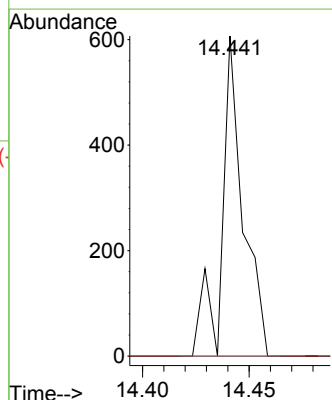
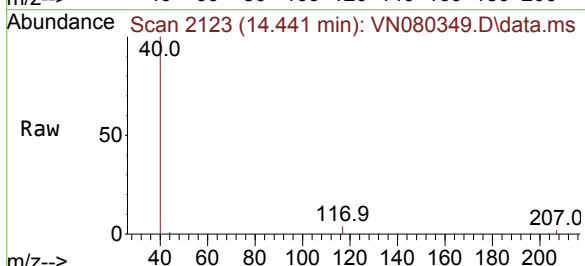
Acq: 04 Dec 2023 19:32

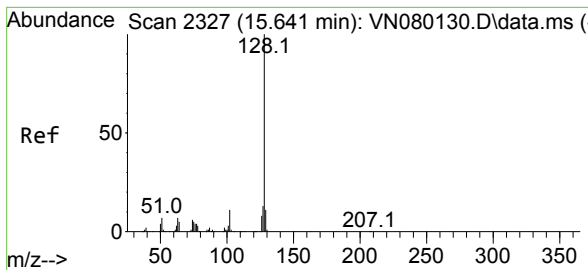
Tgt Ion: 117 Resp: 421

Ion Ratio Lower Upper

117 100

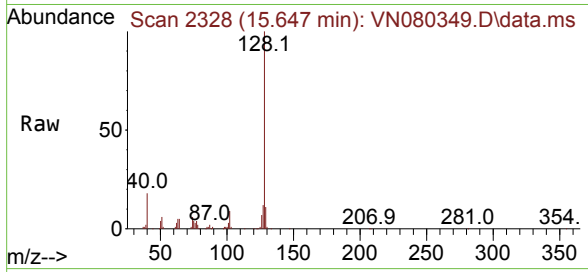
201 0.0 29.3 88.0#





#95  
 Naphthalene  
 Concen: 25.310 ug/l  
 RT: 15.647 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN080349.D  
 Acq: 04 Dec 2023 19:32

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 212797 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 12.7  | 10.0  | 15.0   |
| 129      | 10.7  | 8.7   | 13.1   |

