

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020924\  
 Data File : VN080992.D  
 Acq On : 09 Feb 2024 16:22  
 Operator : JC\MD  
 Sample : P1429-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 10 02:04:11 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N020924W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 10 01:52:21 2024  
 Response via : Initial Calibration

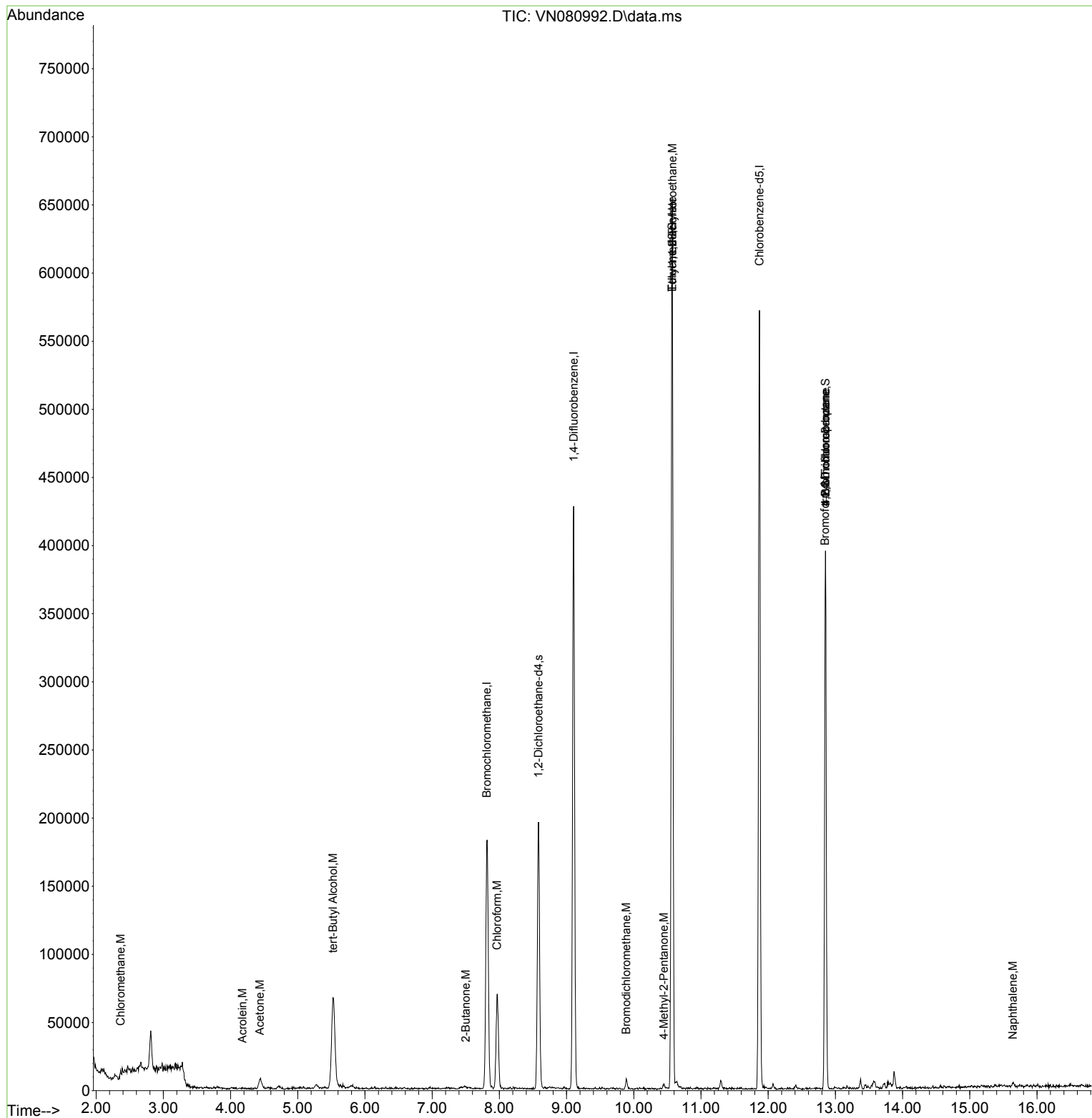
| Compound                    | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-----------------------------|-----------|----------------|----------|------------|--------|----------|
| -----                       |           |                |          |            |        |          |
| Internal Standards          |           |                |          |            |        |          |
| 1) Bromochloromethane       | 7.812     | 128            | 68226    | 30.000     | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.106     | 114            | 373106   | 30.000     | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.871    | 117            | 328909   | 30.000     | ug/l   | 0.00     |
| System Monitoring Compounds |           |                |          |            |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.583     | 65             | 157125   | 30.649     | ug/l   | 0.00     |
| Spiked Amount               | 30.000    | Range 91 - 110 | Recovery | = 102.167% |        |          |
| 60) 4-Bromofluorobenzene    | 12.853    | 95             | 137514   | 27.348     | ug/l   | 0.00     |
| Spiked Amount               | 30.000    | Range 63 - 112 | Recovery | = 91.167%  |        |          |
| 63) Toluene-d8              | 10.571    | 98             | 448852   | 30.409     | ug/l   | 0.00     |
| Spiked Amount               | 30.000    | Range 91 - 112 | Recovery | = 101.367% |        |          |
| Target Compounds            |           |                |          |            |        | Qvalue   |
| 3) Chloromethane            | 2.365     | 50             | 2111     | 0.453      | ug/l   | 96       |
| 13) Acrolein                | 4.177     | 56             | 262      | 0.341      | ug/l # | 66       |
| 15) Acetone                 | 4.436     | 58             | 2588     | 6.421      | ug/l # | 28       |
| 23) tert-Butyl Alcohol      | 5.524     | 59             | 121709   | 190.700    | ug/l # | 100      |
| 25) Chloroform              | 7.965     | 83             | 67202    | 8.043      | ug/l   | 94       |
| 30) 2-Butanone              | 7.500     | 43             | 2991     | 1.467      | ug/l # | 77       |
| 41) Bromodichloromethane    | 9.888     | 83             | 4804     | 0.801      | ug/l # | 77       |
| 50) 1,1,2-Trichloroethane   | 10.576    | 97             | 13667    | 3.223      | ug/l # | 1        |
| 51) Ethyl methacrylate      | 10.571    | 69             | 1495     | 0.252      | ug/l # | 78       |
| 56) Bromoform               | 12.847    | 173            | 934      | 0.317      | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 10.447    | 43             | 2375     | 0.556      | ug/l # | 78       |
| 72) 1,2,3-Trichloropropane  | 12.853    | 75             | 74140    | 17.287     | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.853    | 75             | 74140    | 45.681     | ug/l # | 12       |
| 91) Naphthalene             | 15.641    | 128            | 3145     | 0.234      | ug/l # | 83       |
| -----                       |           |                |          |            |        |          |

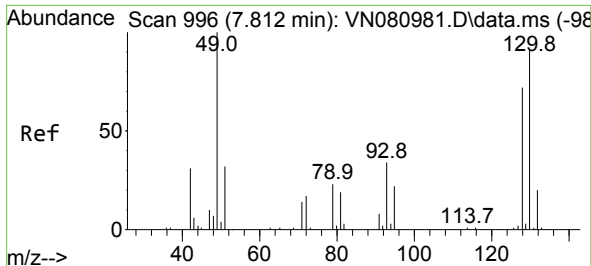
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020924\  
Data File : VN080992.D  
Acq On : 09 Feb 2024 16:22  
Operator : JC\MD  
Sample : P1429-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

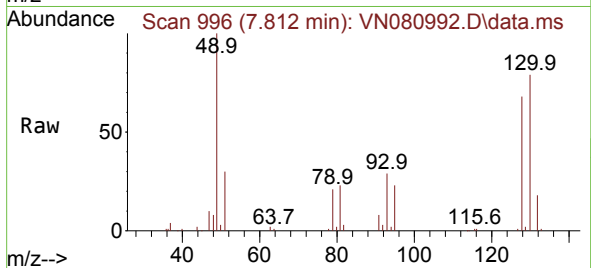
Quant Time: Feb 10 02:04:11 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N020924W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 10 01:52:21 2024  
Response via : Initial Calibration



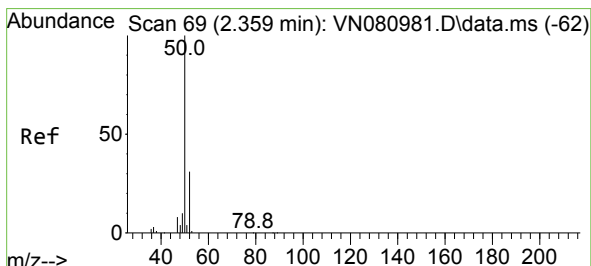
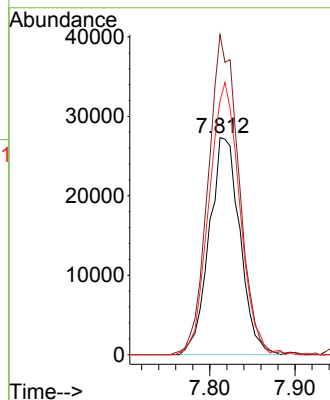
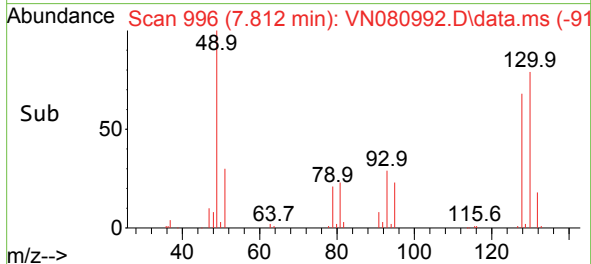


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Instrument :  
MSVOA\_N  
ClientSampleId :

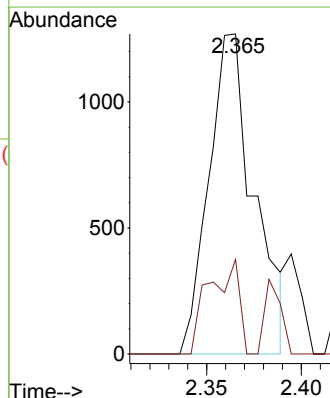
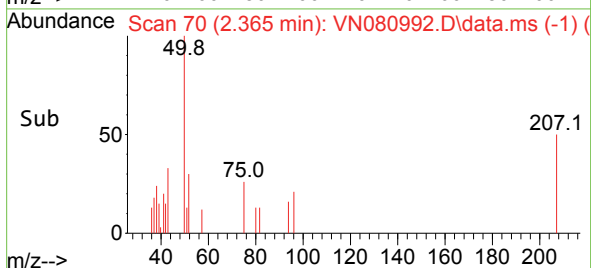
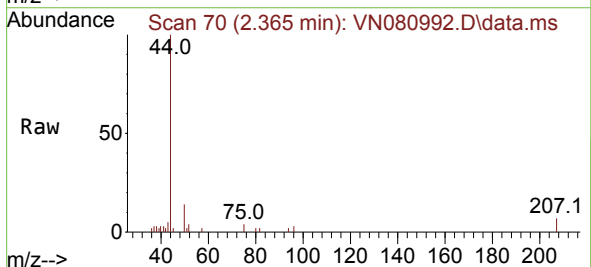


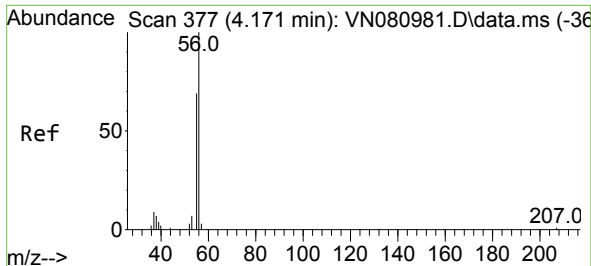
Tgt Ion:128 Resp: 68226  
Ion Ratio Lower Upper  
128 100  
49 147.9 0.0 403.7  
130 125.7 0.0 323.3



#3  
Chloromethane  
Concen: 0.453 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

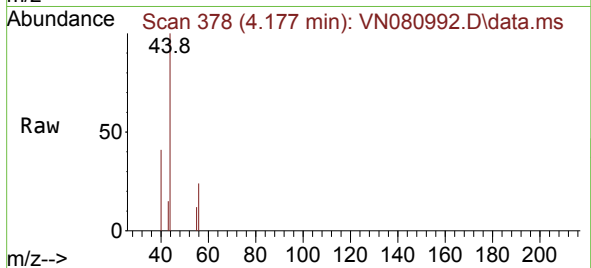
Tgt Ion: 50 Resp: 2111  
Ion Ratio Lower Upper  
50 100  
52 29.6 25.4 38.0



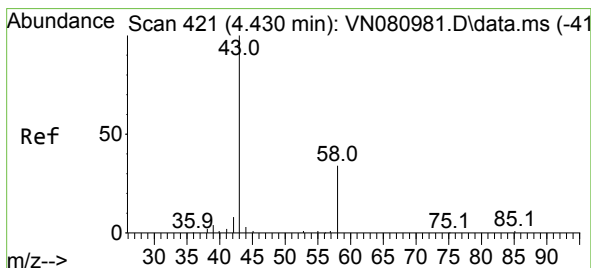
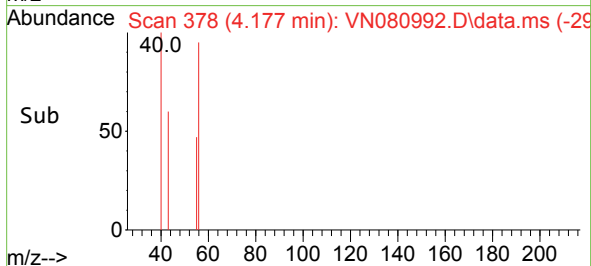
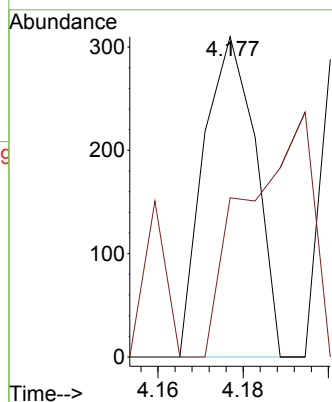


#13  
Acrolein  
Concen: 0.341 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Instrument :  
MSVOA\_N  
ClientSampleId :

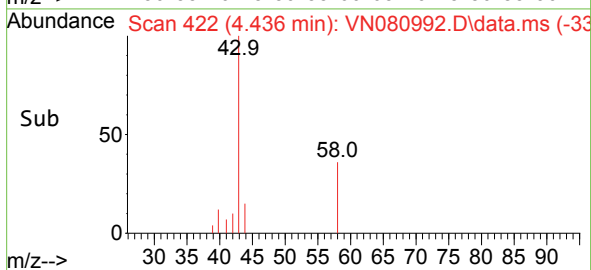
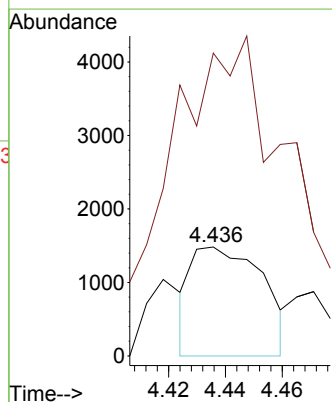
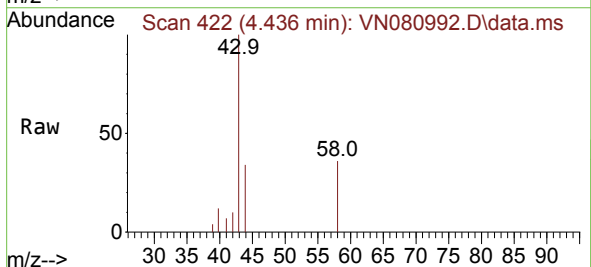


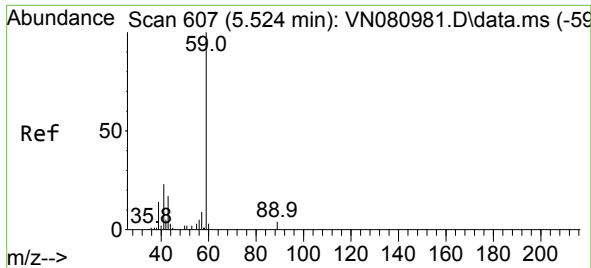
Tgt Ion: 56 Resp: 262  
Ion Ratio Lower Upper  
56 100  
55 41.2 55.5 83.3#



#15  
Acetone  
Concen: 6.421 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.006 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Tgt Ion: 58 Resp: 2588  
Ion Ratio Lower Upper  
58 100  
43 144.9 223.1 334.7#

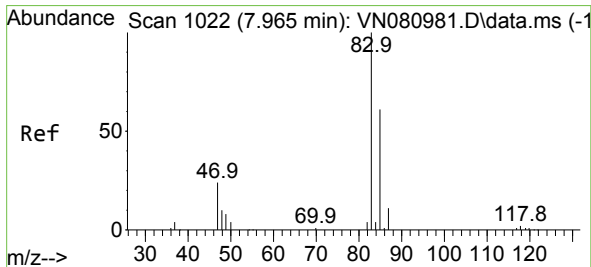
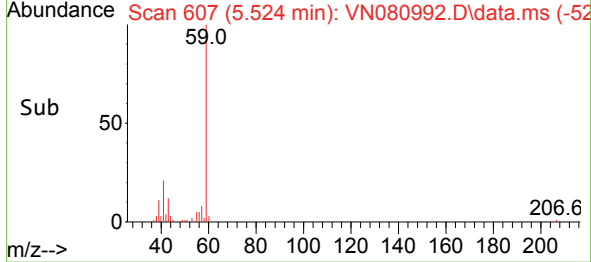
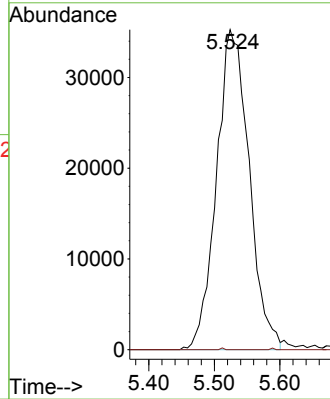
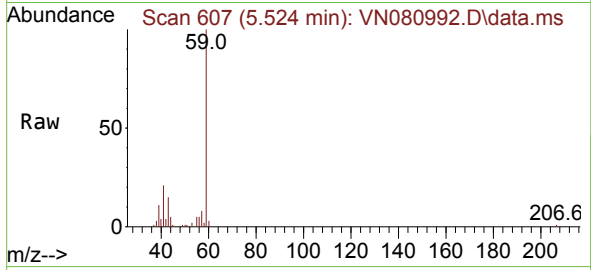




#23  
tert-Butyl Alcohol  
Concen: 190.700 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

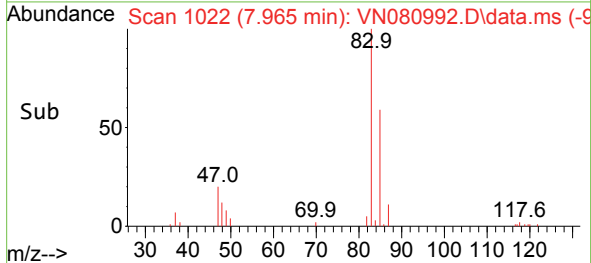
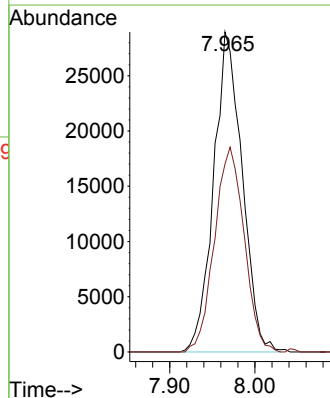
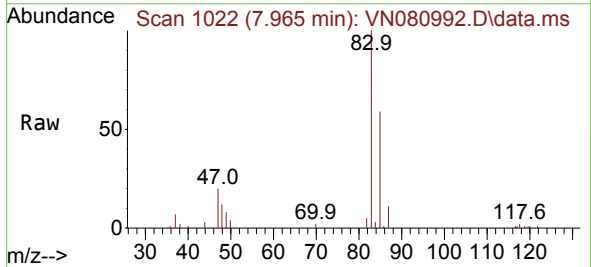
Instrument :  
MSVOA\_N  
ClientSampleId :

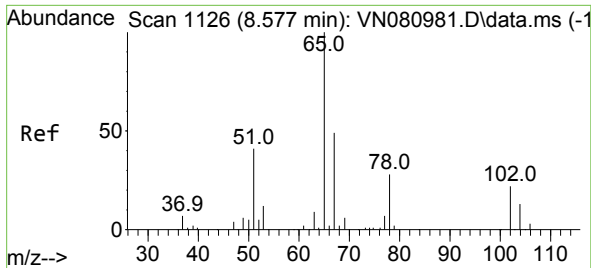
Tgt Ion: 59 Resp: 121709  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#25  
Chloroform  
Concen: 8.043 ug/l  
RT: 7.965 min Scan# 1022  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Tgt Ion: 83 Resp: 67202  
Ion Ratio Lower Upper  
83 100  
85 58.8 50.9 76.3

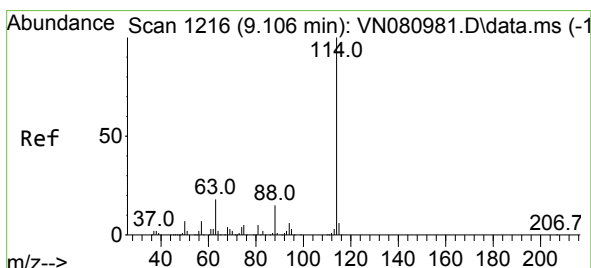
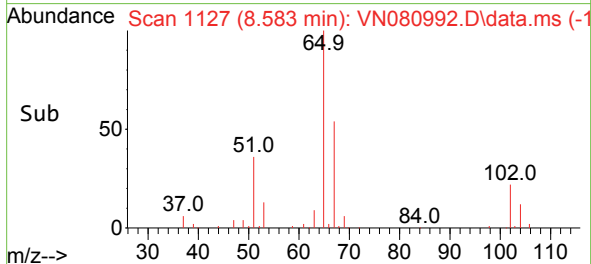
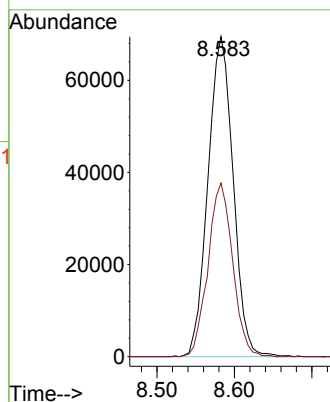
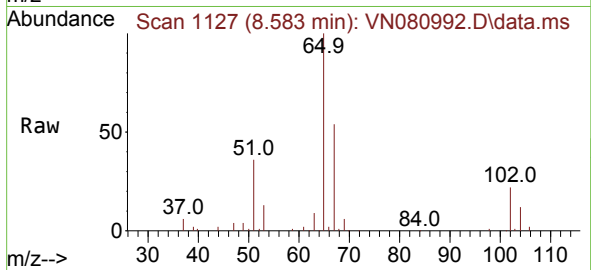




#27  
1,2-Dichloroethane-d4  
Concen: 30.649 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

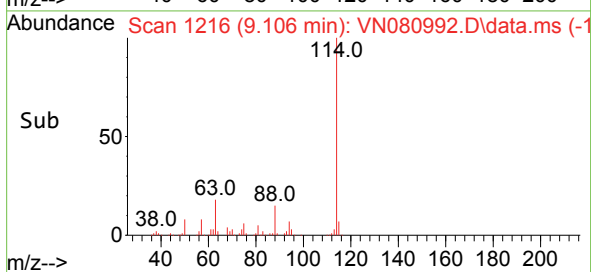
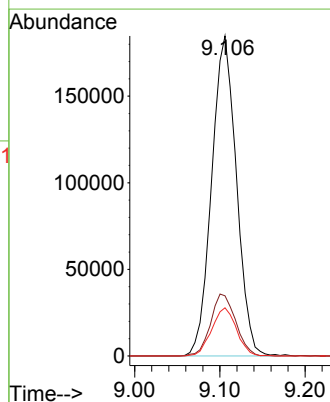
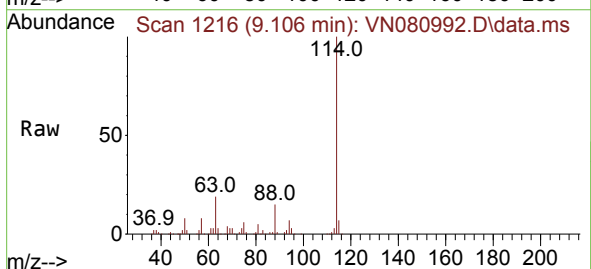
Instrument :  
MSVOA\_N  
ClientSampleId :

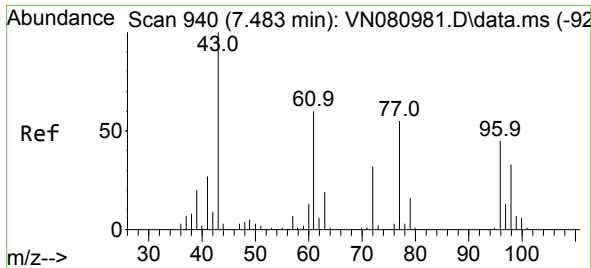
Tgt Ion: 65 Resp: 157125  
Ion Ratio Lower Upper  
65 100  
67 53.0 43.2 64.8



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.106 min Scan# 1216  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

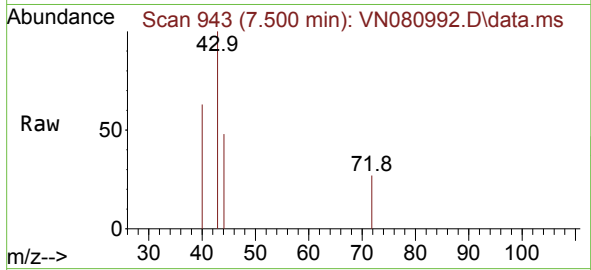
Tgt Ion: 114 Resp: 373106  
Ion Ratio Lower Upper  
114 100  
63 19.6 15.9 23.9  
88 15.0 12.7 19.1



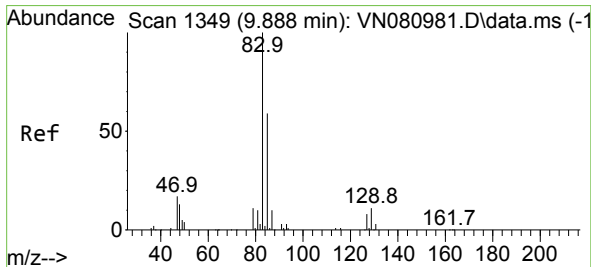
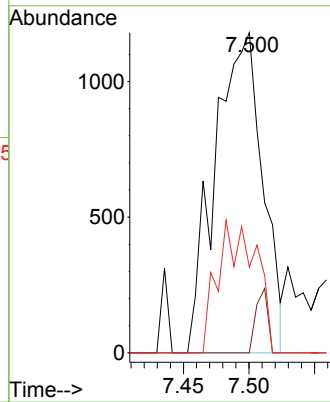
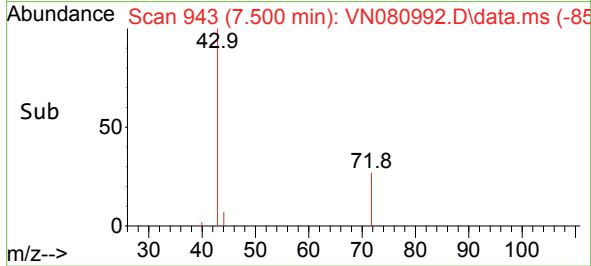


#30  
2-Butanone  
Concen: 1.467 ug/l  
RT: 7.500 min Scan# 940  
Delta R.T. 0.018 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

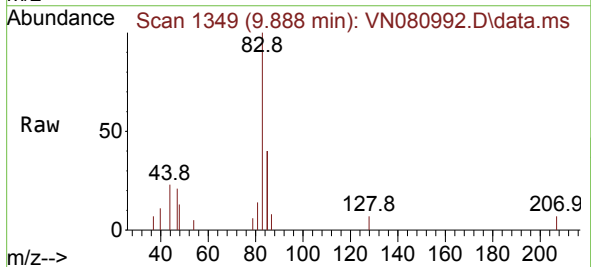
Instrument :  
MSVOA\_N  
ClientSampleId :



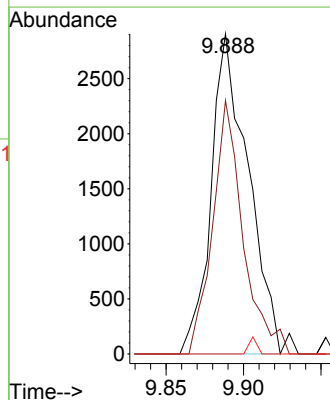
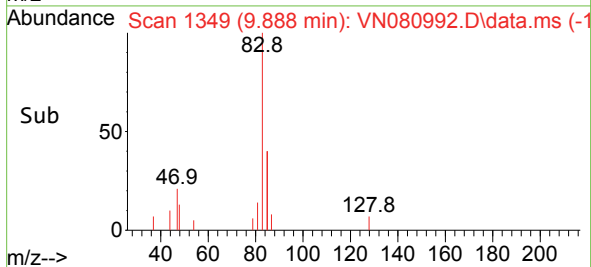
Tgt Ion: 43 Resp: 2991  
Ion Ratio Lower Upper  
43 100  
57 4.9 6.7 10.1#  
72 15.7 24.0 36.0#

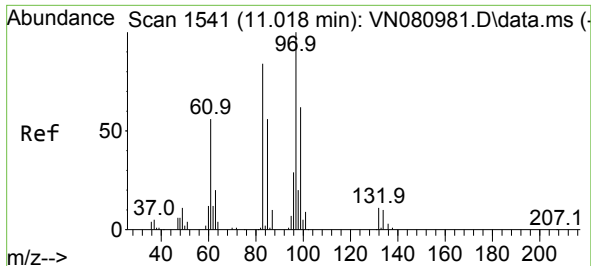


#41  
Bromodichloromethane  
Concen: 0.801 ug/l  
RT: 9.888 min Scan# 1349  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22



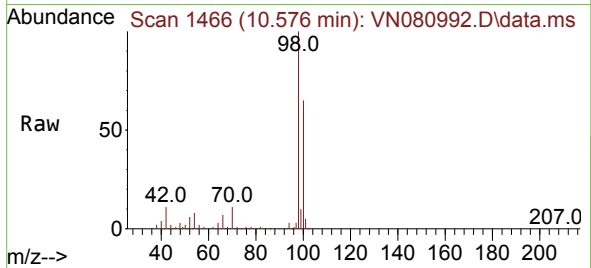
Tgt Ion: 83 Resp: 4804  
Ion Ratio Lower Upper  
83 100  
85 79.2 49.4 74.2#  
127 0.0 7.3 10.9#



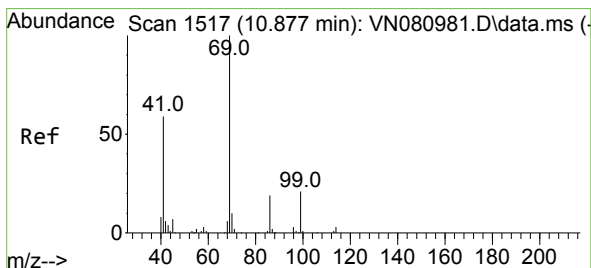
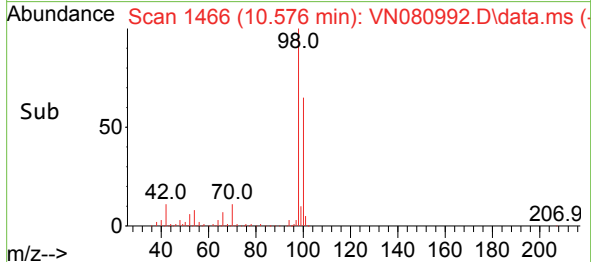
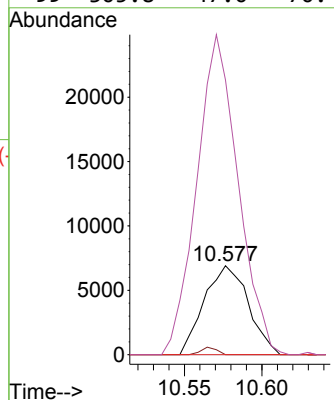


#50  
1,1,2-Trichloroethane  
Concen: 3.223 ug/l  
RT: 10.576 min Scan# 1466  
Delta R.T. -0.441 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Instrument :  
MSVOA\_N  
ClientSampleId :

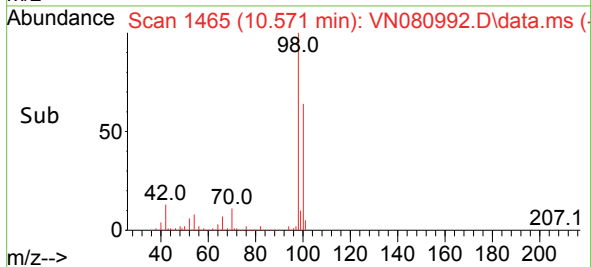
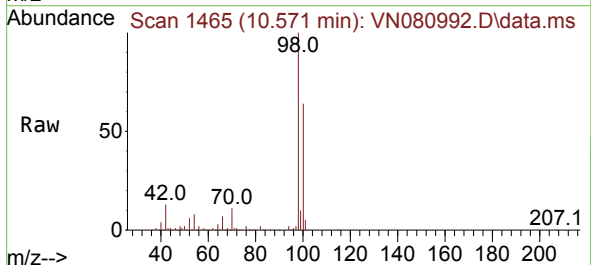
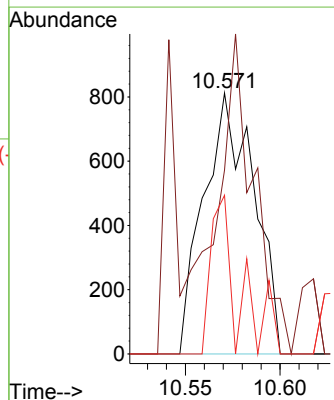


Tgt Ion: 97 Resp: 13667  
Ion Ratio Lower Upper  
97 100  
83 0.0 68.1 102.1#  
85 0.0 41.8 62.6#  
99 305.8 47.0 70.4#

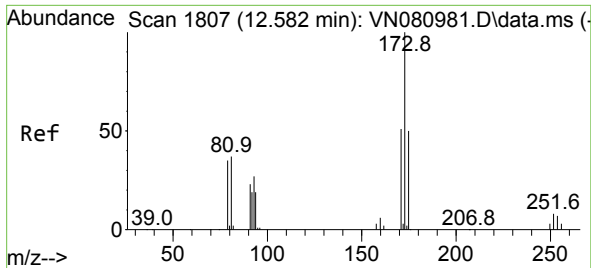


#51  
Ethyl methacrylate  
Concen: 0.252 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.306 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Tgt Ion: 69 Resp: 1495  
Ion Ratio Lower Upper  
69 100  
41 49.1 25.5 76.5  
39 60.8 16.0 47.9#

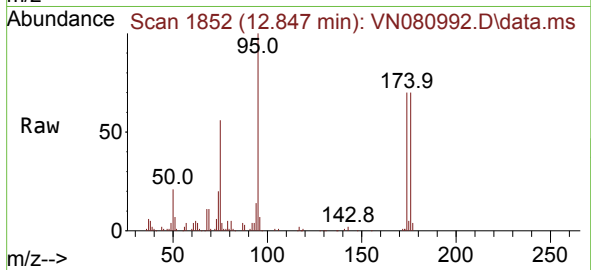




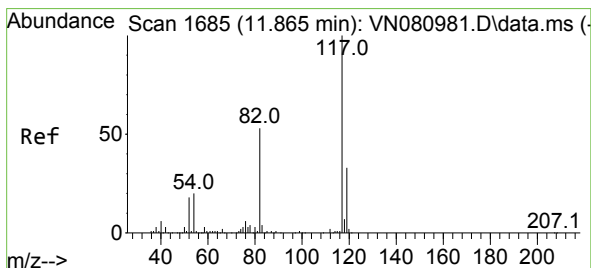
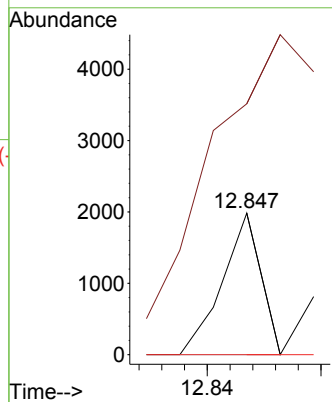
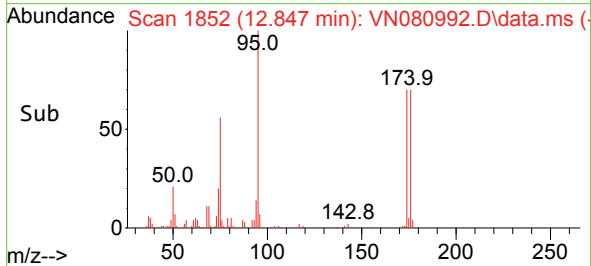


#56  
Bromoform  
Concen: 0.317 ug/l  
RT: 12.847 min Scan# 1807  
Delta R.T. 0.265 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Instrument :  
MSVOA\_N  
ClientSampleId :

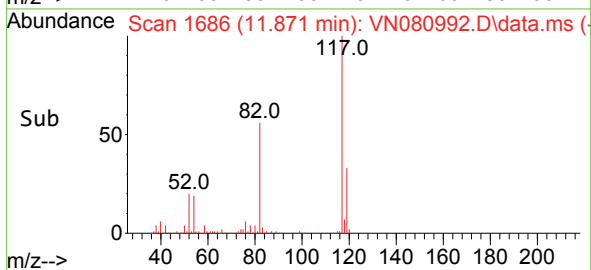
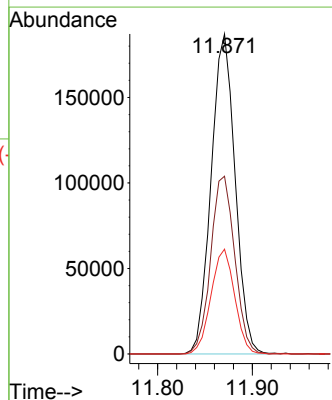
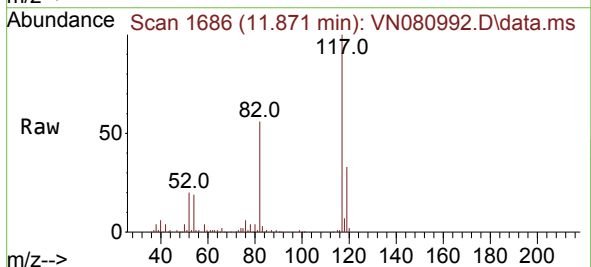


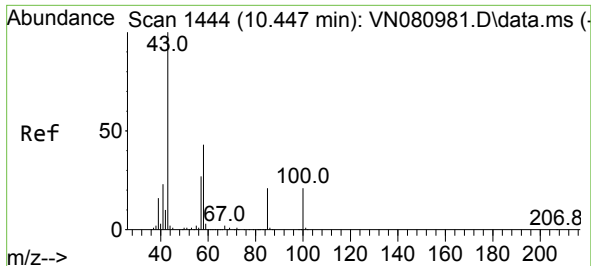
Tgt Ion:173 Resp: 934  
Ion Ratio Lower Upper  
173 100  
175 791.3 40.0 60.0#  
254 0.0 8.3 12.5#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

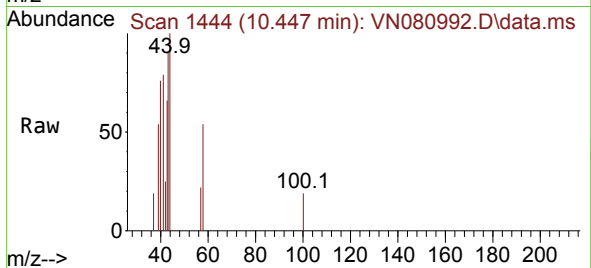
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Ion Ratio Lower Upper  
117 100  
82 55.8 46.6 69.8  
119 32.3 25.4 38.2



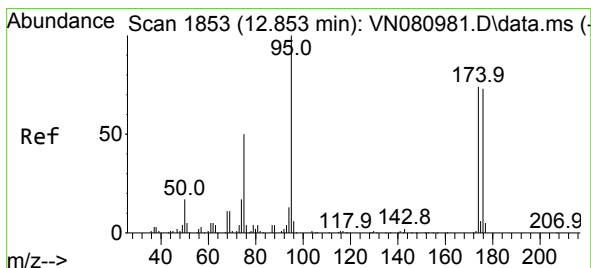
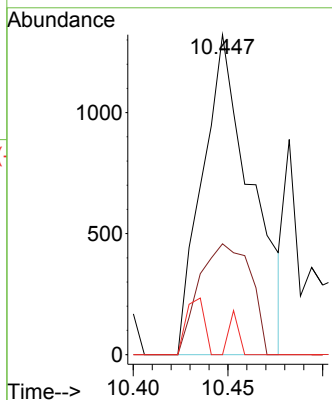
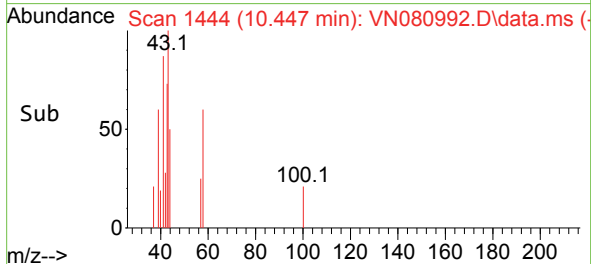


#58  
4-Methyl-2-Pentanone  
Concen: 0.556 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Instrument :  
MSVOA\_N  
ClientSampleId :

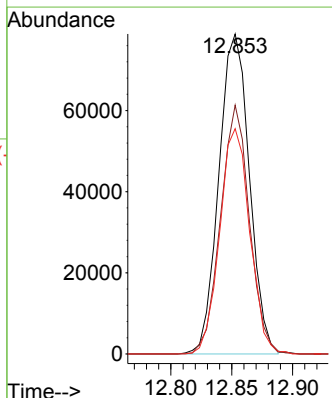
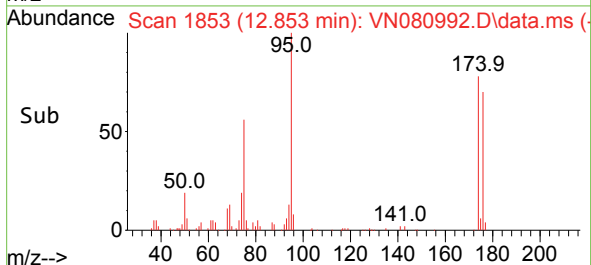
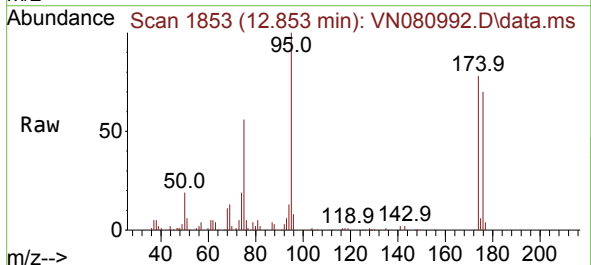


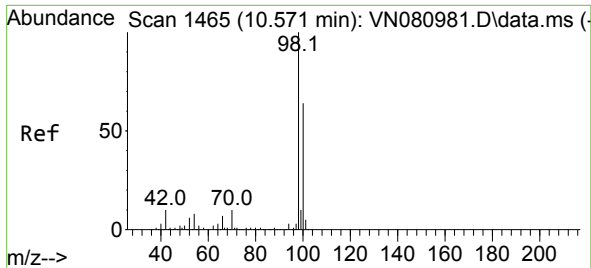
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 36.4  | 36.5  | 54.7# |
| 85      | 6.6   | 19.5  | 29.3# |



#60  
4-Bromofluorobenzene  
Concen: 27.348 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 73.5  | 60.5  | 90.7  |
| 176     | 69.3  | 57.8  | 86.6  |

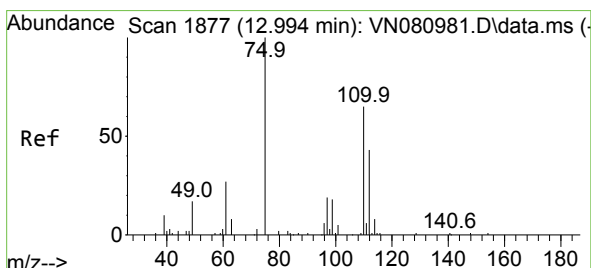
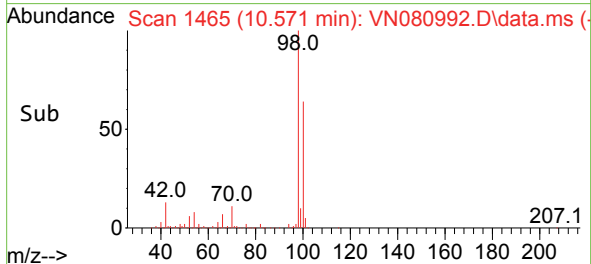
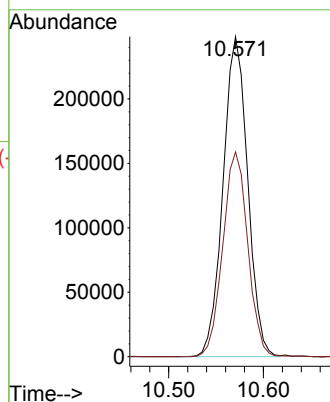
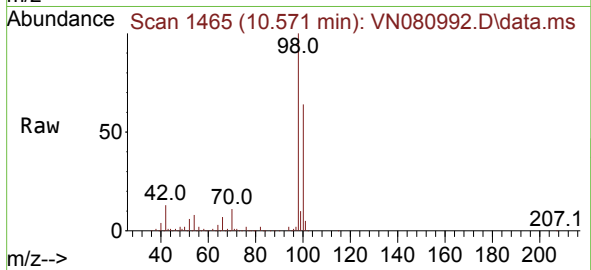




#63  
Toluene-d8  
Concen: 30.409 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

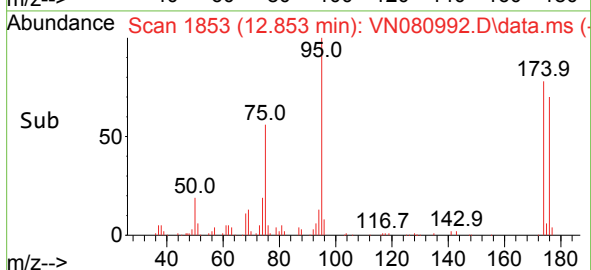
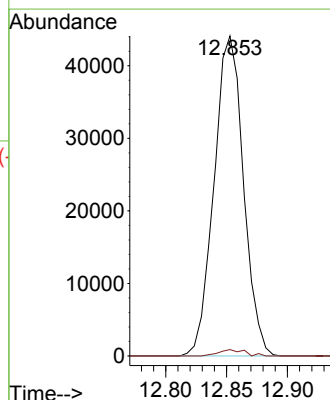
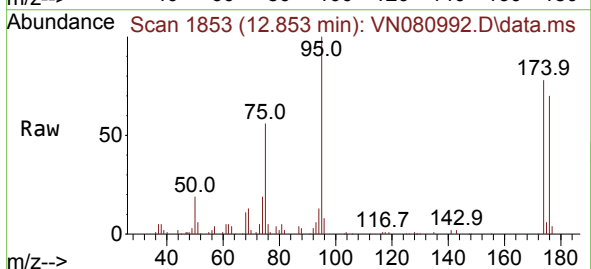
Instrument :  
MSVOA\_N  
ClientSampleId :

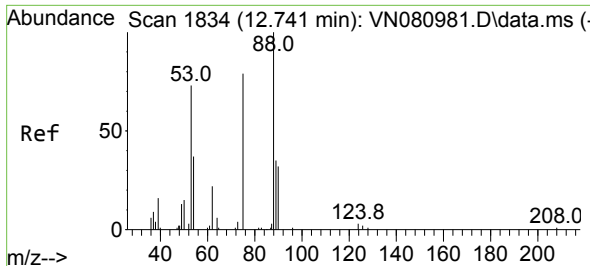
Tgt Ion: 98 Resp: 448852  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.7 79.1



#72  
1,2,3-Trichloropropane  
Concen: 17.287 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

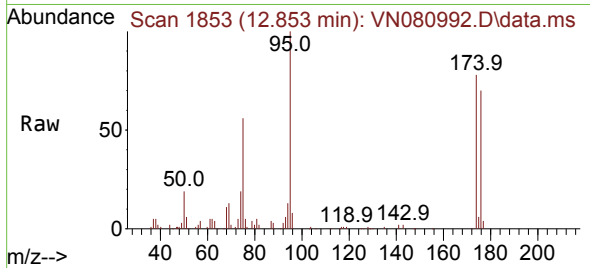
Tgt Ion: 75 Resp: 74140  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 367.6



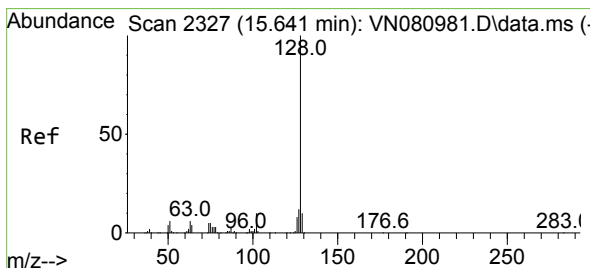
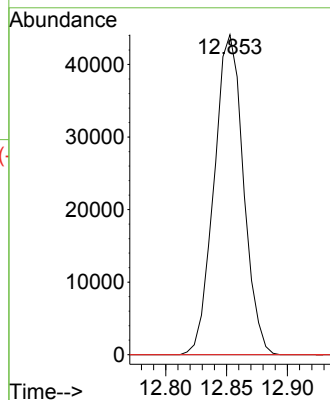
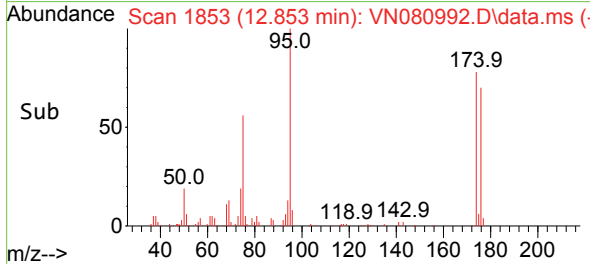


#77  
t-1,4-Dichloro-2-butene  
Concen: 45.681 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 74140  
Ion Ratio Lower Upper  
75 100  
53 0.0 45.9 137.7#  
89 0.0 25.9 77.7#



#91  
Naphthalene  
Concen: 0.234 ug/l  
RT: 15.641 min Scan# 2327  
Delta R.T. -0.000 min  
Lab File: VN080992.D  
Acq: 09 Feb 2024 16:22

Tgt Ion: 128 Resp: 3145  
Ion Ratio Lower Upper  
128 100  
127 10.2 10.6 16.0#  
129 0.0 8.6 13.0#

