

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110923\  
 Data File : VN080040.D  
 Acq On : 09 Nov 2023 22:33  
 Operator : JC\MD  
 Sample : 05318-01 50X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 10 00:44:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.230  | 168  | 279045   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.106  | 114  | 601593   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.871 | 117  | 623247   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 269292   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.583  | 65    | 255976   | 60.211   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 120.420% |
| 35) Dibromofluoromethane    | 8.171  | 113   | 212443   | 49.895   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 99.780%  |
| 50) Toluene-d8              | 10.571 | 98    | 744215   | 47.479   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 94.960%  |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 269750   | 51.890   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 103.780% |

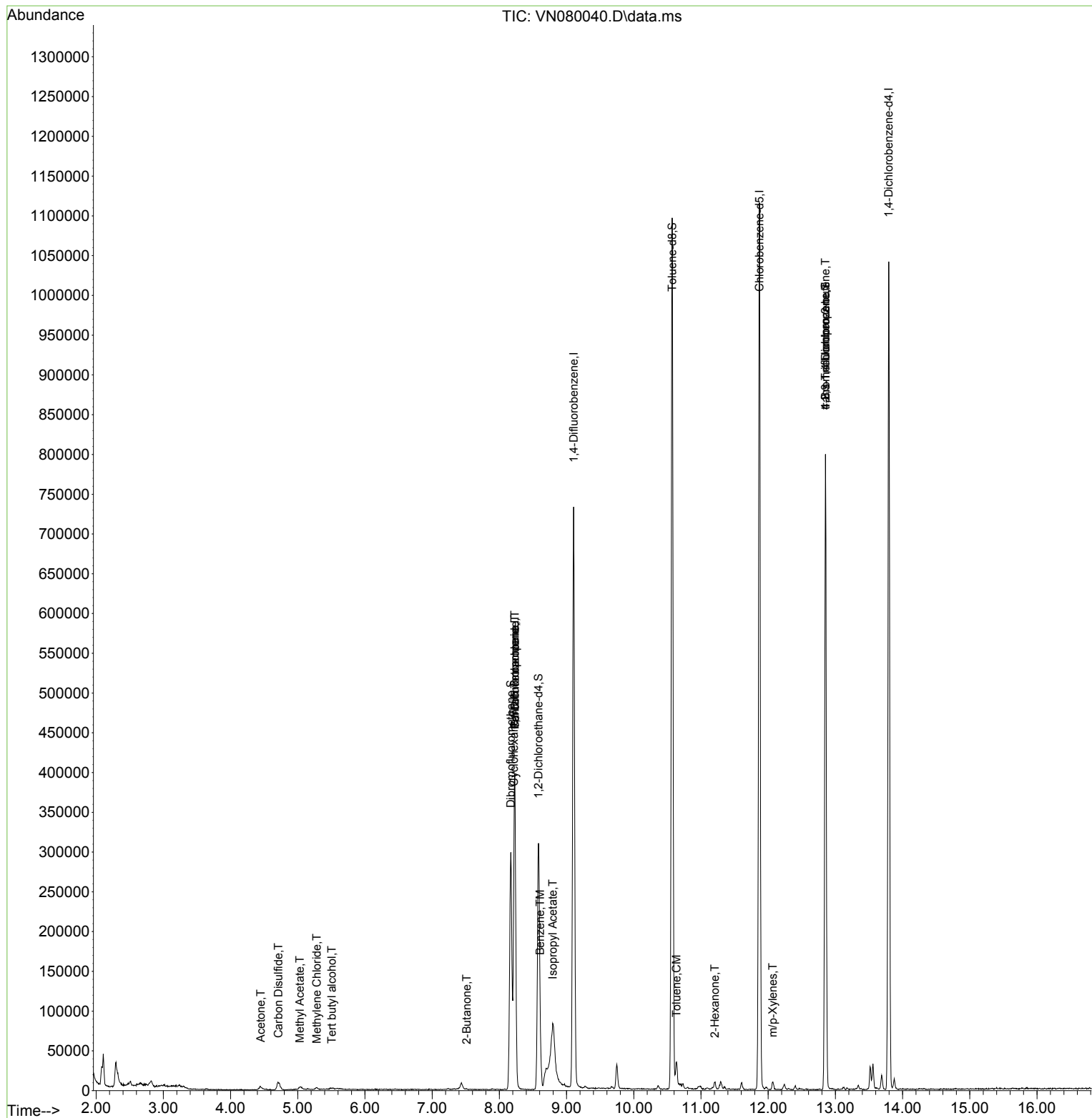
| Target Compounds              | R.T.   | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|--------|------|----------|-----------|--------|--------|
| 3) Chloromethane              | 2.365  | 50   | 1048     | Below Cal | #      | 76     |
| 11) Tert butyl alcohol        | 5.506  | 59   | 889      | 1.638     | ug/l # | 72     |
| 16) Acetone                   | 4.447  | 43   | 8250     | 5.525     | ug/l # | 71     |
| 17) Carbon Disulfide          | 4.712  | 76   | 21380    | 2.468     | ug/l   | 99     |
| 18) Methyl Acetate            | 5.030  | 43   | 7780     | 1.089     | ug/l # | 80     |
| 20) Methylene Chloride        | 5.283  | 84   | 1551     | 0.412     | ug/l # | 86     |
| 25) 2-Butanone                | 7.512  | 43   | 1305     | 0.597     | ug/l # | 37     |
| 31) Cyclohexane               | 8.218  | 56   | 7067     | 1.258     | ug/l # | 34     |
| 36) 1,1-Dichloropropene       | 8.230  | 75   | 25600    | 4.211     | ug/l # | 46     |
| 38) Carbon Tetrachloride      | 8.230  | 117  | 30694    | 5.010     | ug/l # | 18     |
| 40) Benzene                   | 8.606  | 78   | 27497    | 1.510     | ug/l   | 98     |
| 43) Isopropyl Acetate         | 8.794  | 43   | 175574   | 17.956    | ug/l # | 50     |
| 52) Toluene                   | 10.635 | 92   | 13798    | 1.278     | ug/l   | 100    |
| 59) 2-Hexanone                | 11.206 | 43   | 2430     | 0.577     | ug/l # | 58     |
| 68) m/p-Xylenes               | 12.071 | 106  | 2784     | 0.317     | ug/l   | 79     |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75   | 144650   | 22.880    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75   | 144650   | 62.250    | ug/l # | 15     |

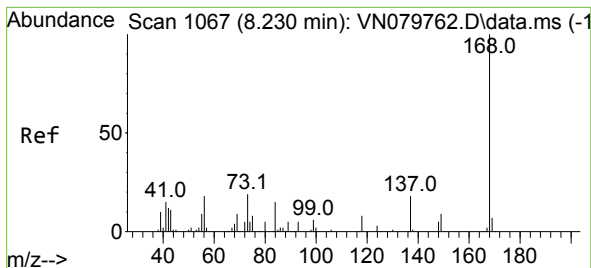
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :

Quant Time: Nov 10 00:44:03 2023  
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Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN080040.D

Acq: 09 Nov 2023 22:33

Instrument :

MSVOA\_N

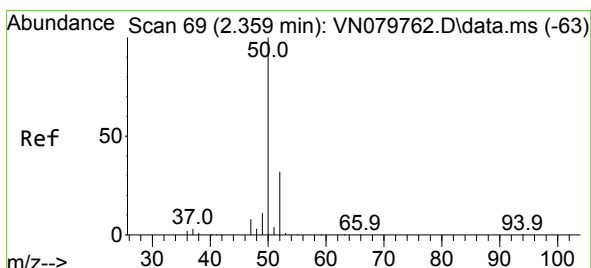
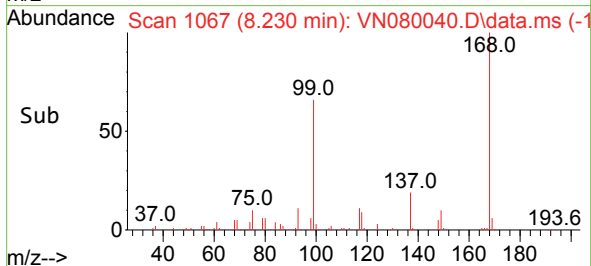
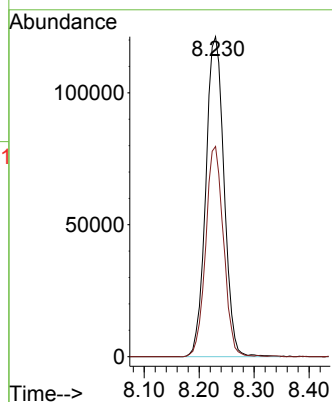
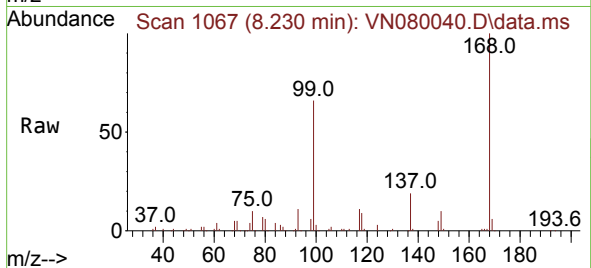
ClientSampleId :

Tgt Ion:168 Resp: 279045

Ion Ratio Lower Upper

168 100

99 65.7 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080040.D

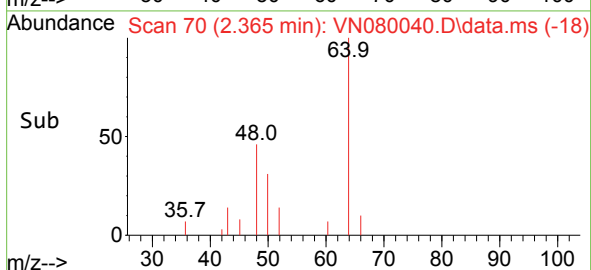
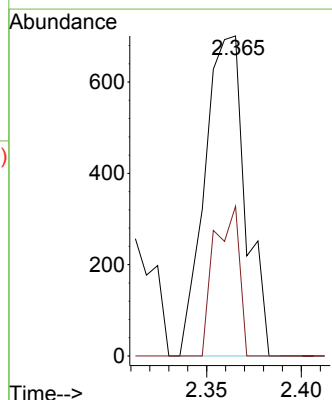
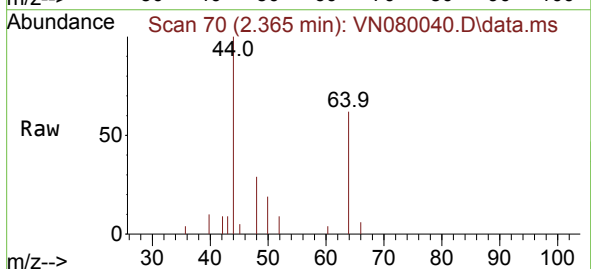
Acq: 09 Nov 2023 22:33

Tgt Ion: 50 Resp: 1048

Ion Ratio Lower Upper

50 100

52 46.8 26.5 39.7#

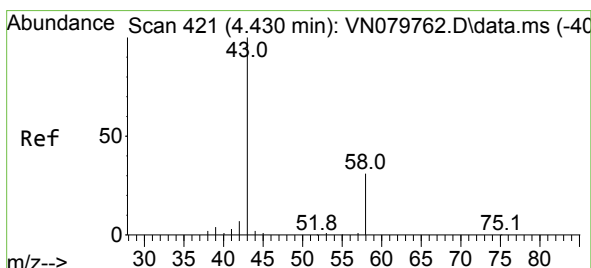
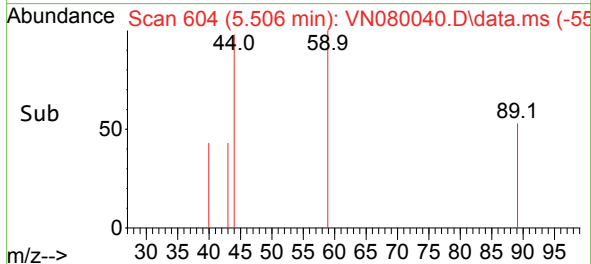
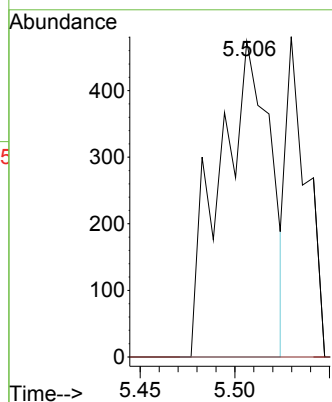
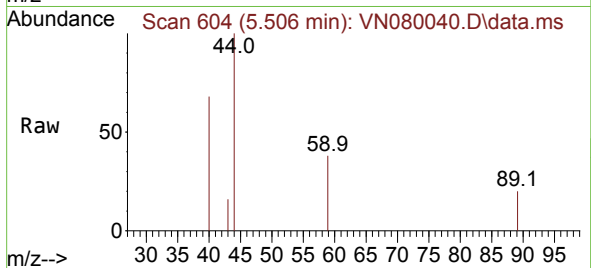




#11  
Tert butyl alcohol  
Concen: 1.638 ug/l  
RT: 5.506 min Scan# 607  
Delta R.T. -0.012 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

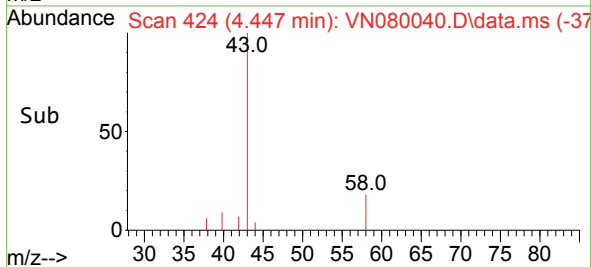
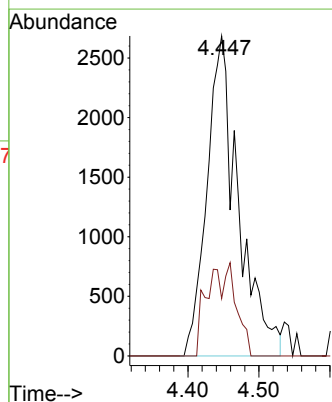
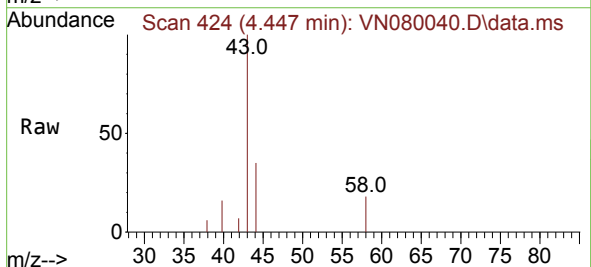
Instrument :  
MSVOA\_N  
ClientSampleId :

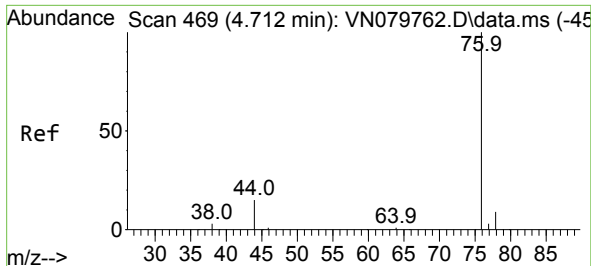
Tgt Ion: 59 Resp: 889  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 5.525 ug/l  
RT: 4.447 min Scan# 424  
Delta R.T. 0.018 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

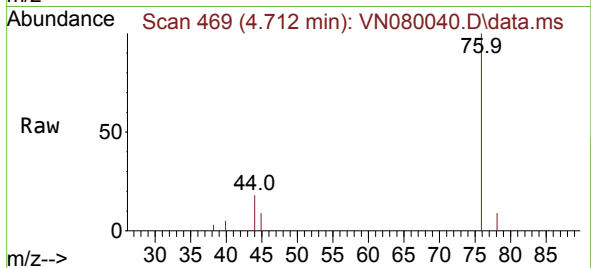
Tgt Ion: 43 Resp: 8250  
Ion Ratio Lower Upper  
43 100  
58 17.9 28.0 42.0#



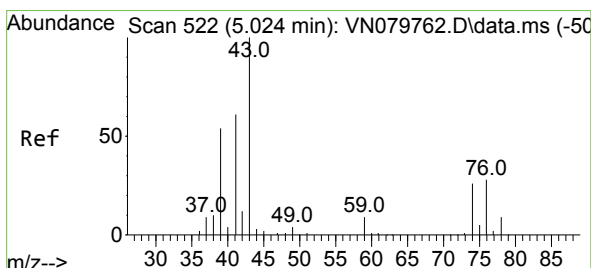
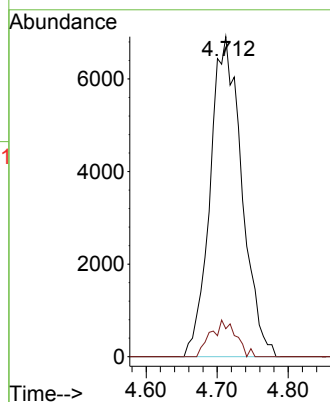
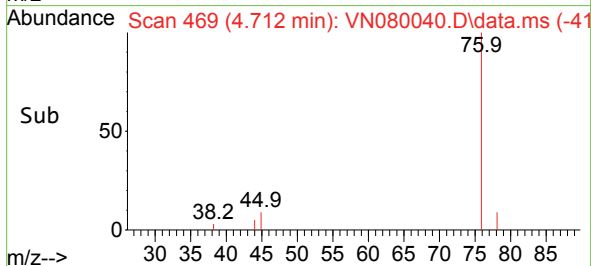


#17  
Carbon Disulfide  
Concen: 2.468 ug/l  
RT: 4.712 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

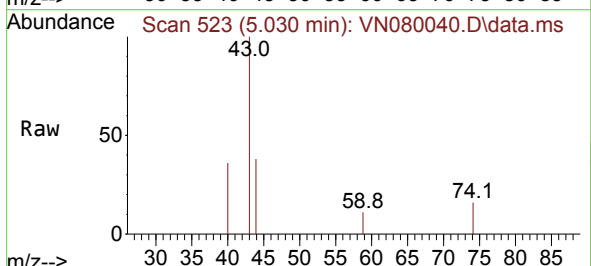
Instrument :  
MSVOA\_N  
ClientSampleId :



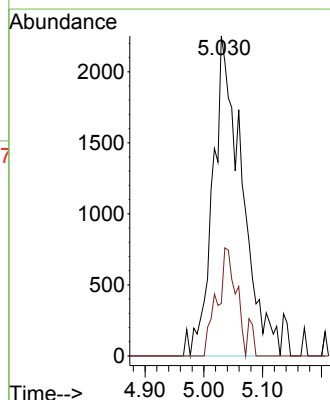
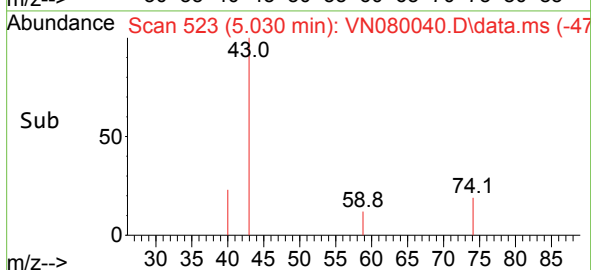
Tgt Ion: 76 Resp: 21380  
Ion Ratio Lower Upper  
76 100  
78 8.7 7.4 11.0



#18  
Methyl Acetate  
Concen: 1.089 ug/l  
RT: 5.030 min Scan# 523  
Delta R.T. 0.006 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33



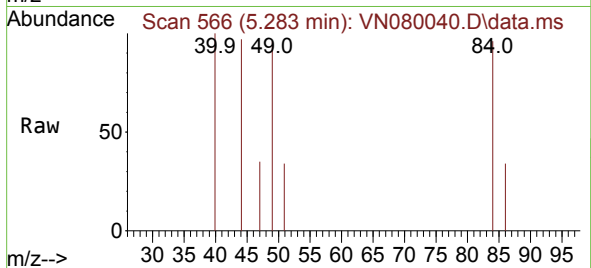
Tgt Ion: 43 Resp: 7780  
Ion Ratio Lower Upper  
43 100  
74 21.7 26.2 39.4#



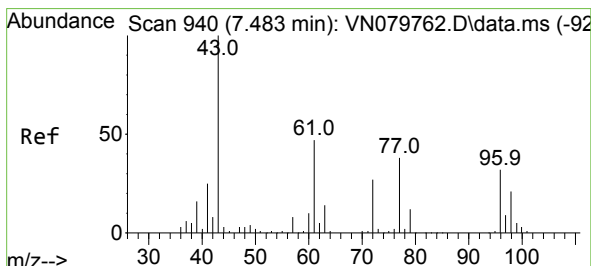
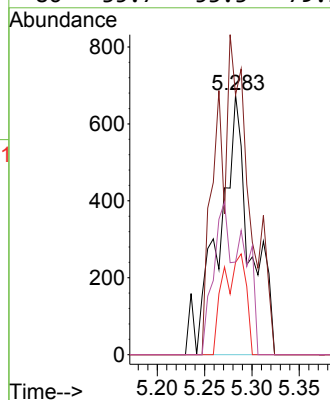
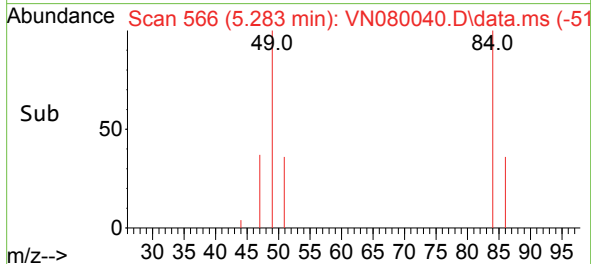


#20  
Methylene Chloride  
Concen: 0.412 ug/l  
RT: 5.283 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

Instrument :  
MSVOA\_N  
ClientSampleId :

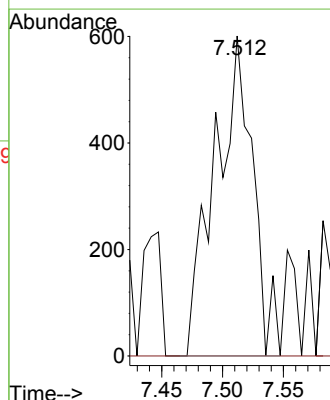
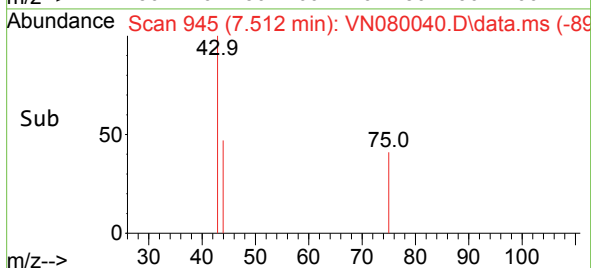
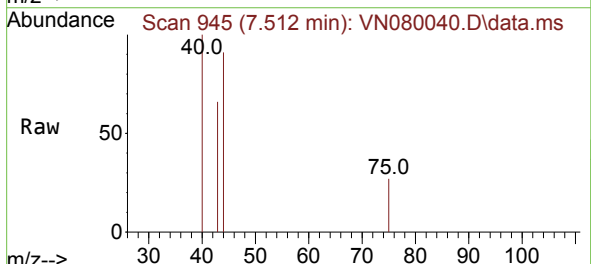


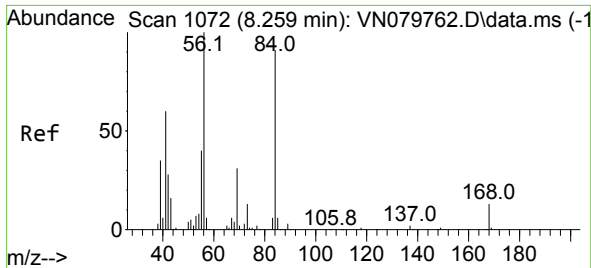
Tgt Ion: 84 Resp: 1551  
Ion Ratio Lower Upper  
84 100  
49 99.9 79.7 119.5  
51 35.5 25.2 37.8  
86 35.7 53.3 79.9#



#25  
2-Butanone  
Concen: 0.597 ug/l  
RT: 7.512 min Scan# 945  
Delta R.T. 0.024 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

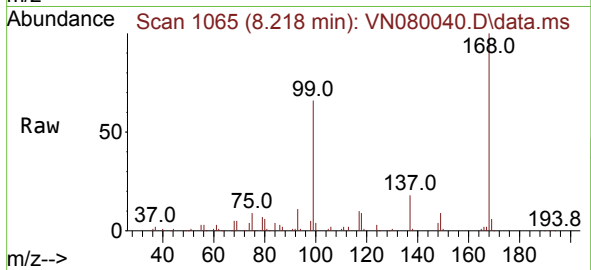
Tgt Ion: 43 Resp: 1305  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



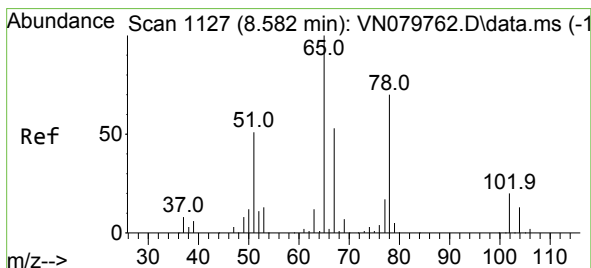
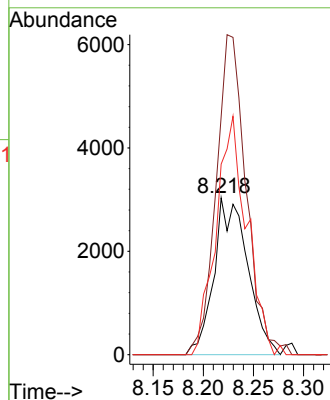
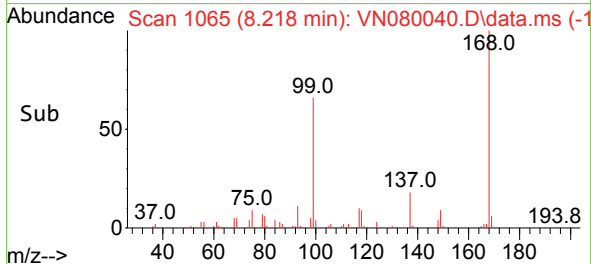


#31  
Cyclohexane  
Concen: 1.258 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.041 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

Instrument :  
MSVOA\_N  
ClientSampleId :

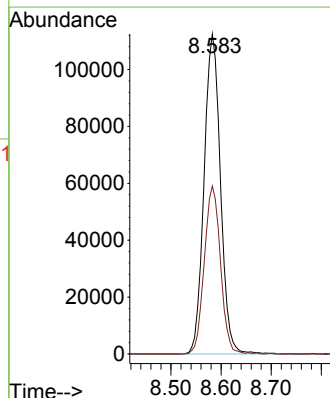
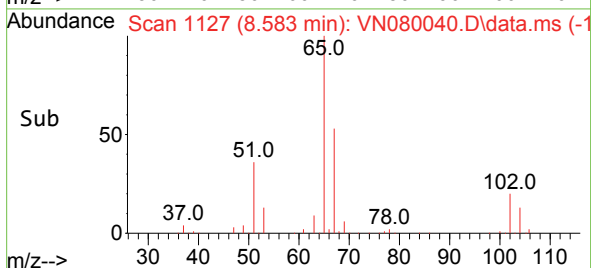
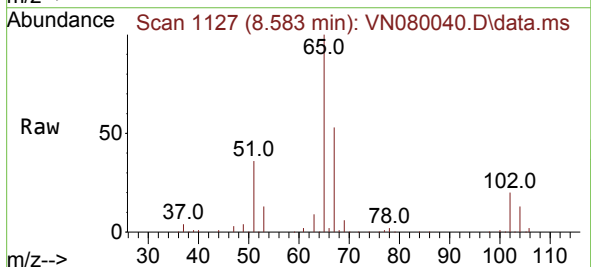


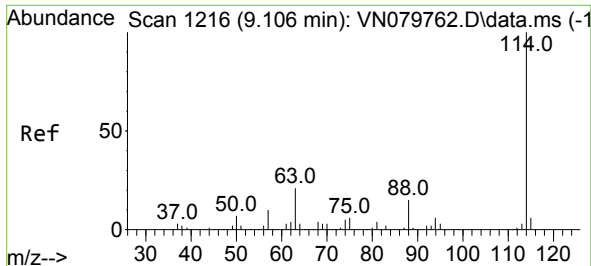
Tgt Ion: 56 Resp: 7067  
Ion Ratio Lower Upper  
56 100  
69 151.8 26.8 40.2#  
84 121.5 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 60.211 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

Tgt Ion: 65 Resp: 255976  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN080040.D

Acq: 09 Nov 2023 22:33

Instrument :

MSVOA\_N

ClientSampleId :

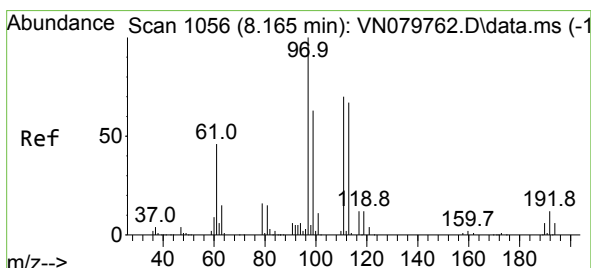
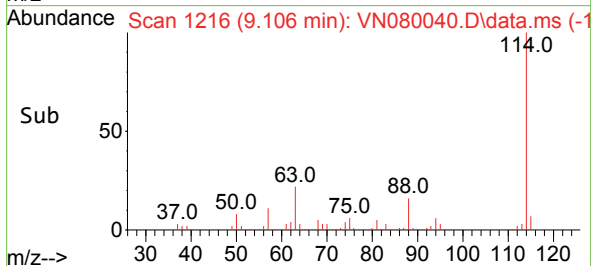
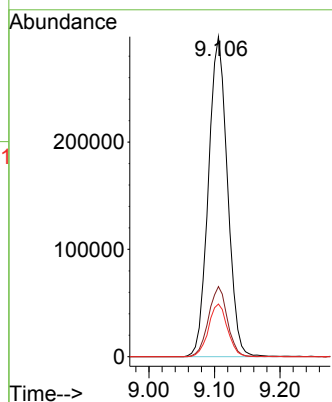
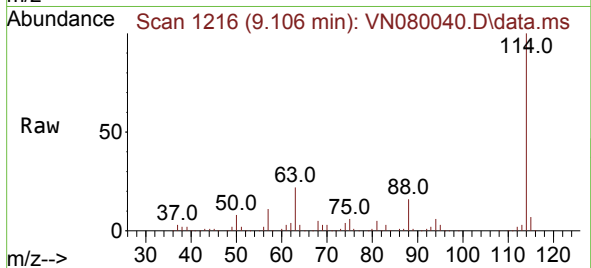
Tgt Ion:114 Resp: 601593

Ion Ratio Lower Upper

114 100

63 21.9 0.0 36.4

88 16.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.895 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN080040.D

Acq: 09 Nov 2023 22:33

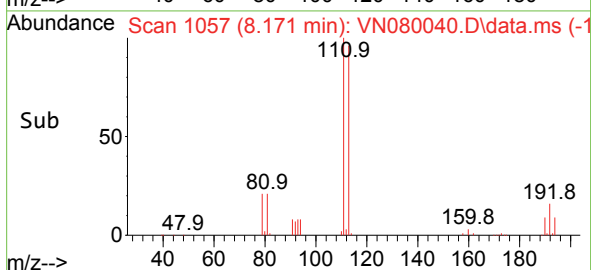
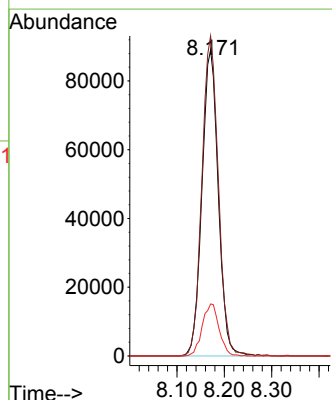
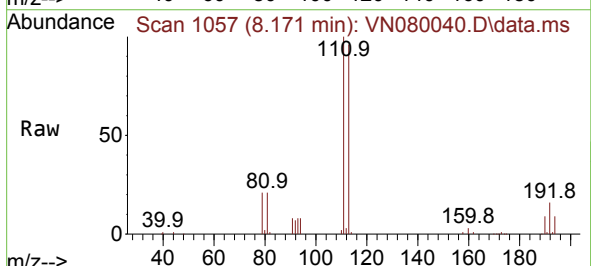
Tgt Ion:113 Resp: 212443

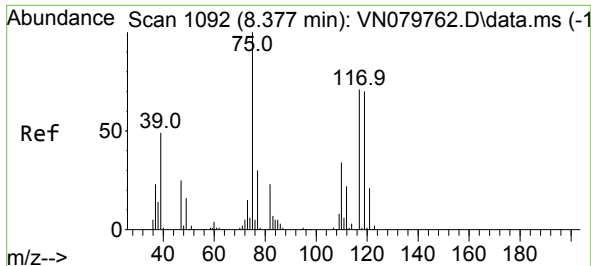
Ion Ratio Lower Upper

113 100

111 105.2 82.6 123.8

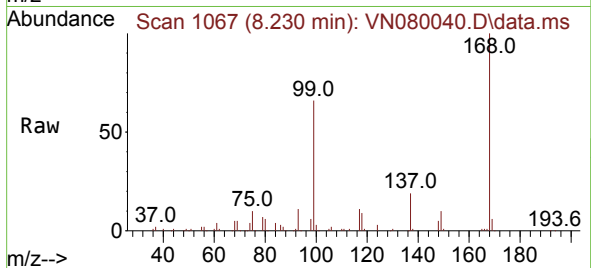
192 17.5 12.7 19.1



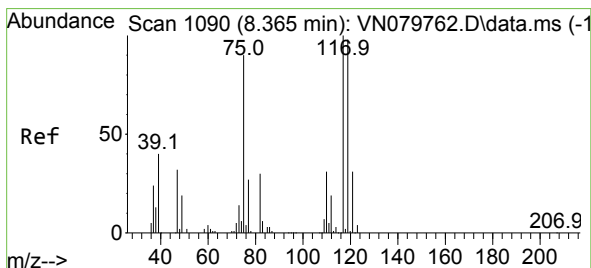
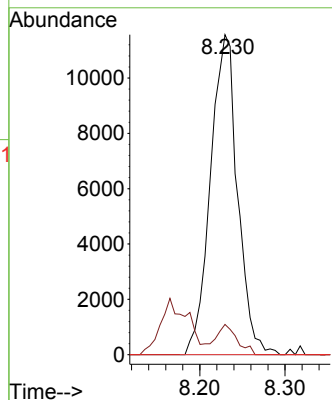
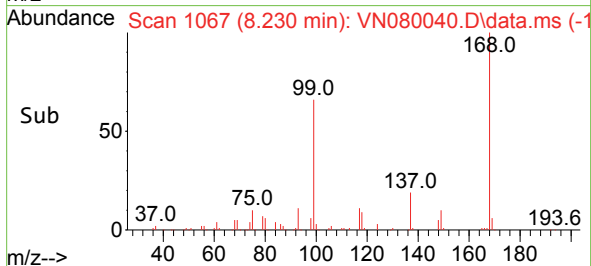


#36  
 1,1-Dichloropropene  
 Concen: 4.211 ug/l  
 RT: 8.230 min Scan# 1067  
 Delta R.T. -0.147 min  
 Lab File: VN080040.D  
 Acq: 09 Nov 2023 22:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :

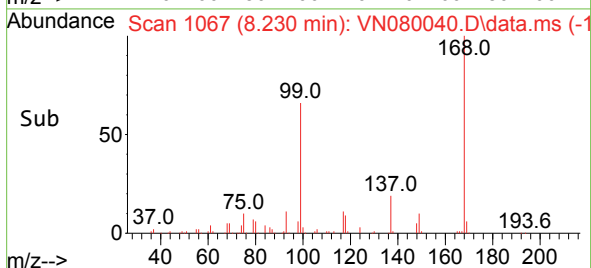
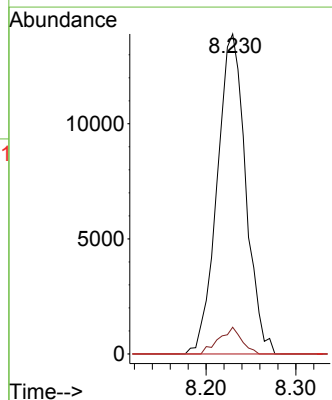
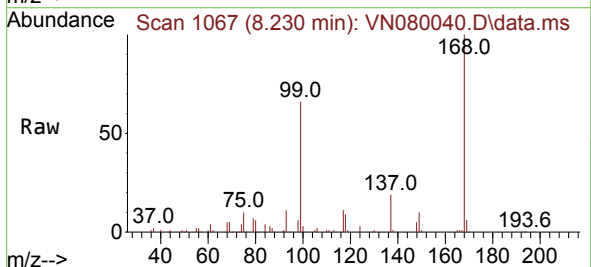


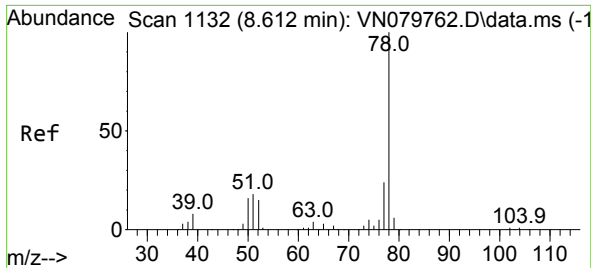
Tgt Ion: 75 Resp: 25600  
 Ion Ratio Lower Upper  
 75 100  
 110 6.9 19.1 57.3#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 5.010 ug/l  
 RT: 8.230 min Scan# 1067  
 Delta R.T. -0.129 min  
 Lab File: VN080040.D  
 Acq: 09 Nov 2023 22:33

Tgt Ion: 117 Resp: 30694  
 Ion Ratio Lower Upper  
 117 100  
 119 8.3 77.3 115.9#  
 121 0.0 23.3 34.9#

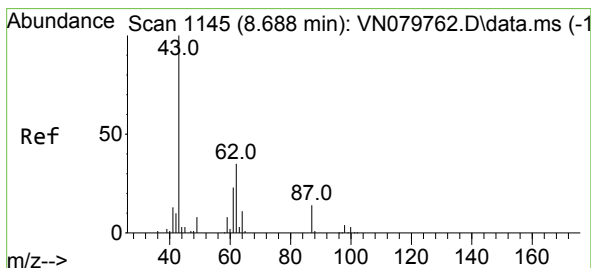
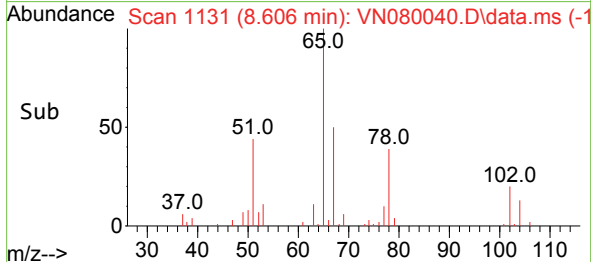
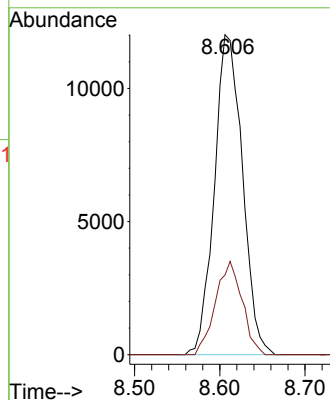
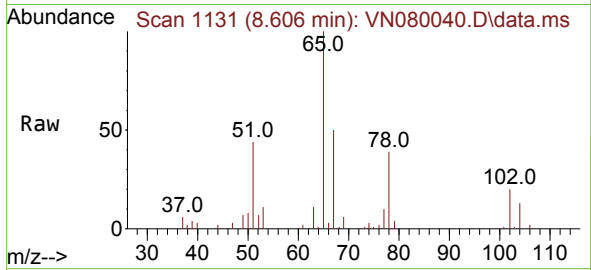




#40  
Benzene  
Concen: 1.510 ug/l  
RT: 8.606 min Scan# 1131  
Delta R.T. -0.006 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

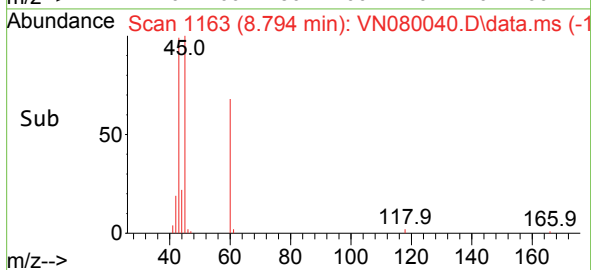
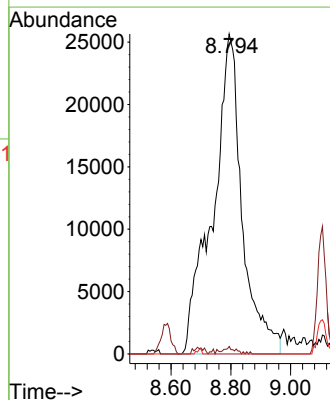
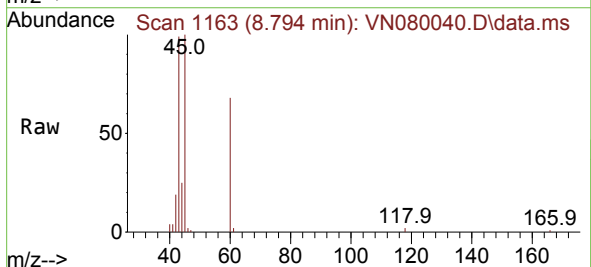
Instrument :  
MSVOA\_N  
ClientSampleId :

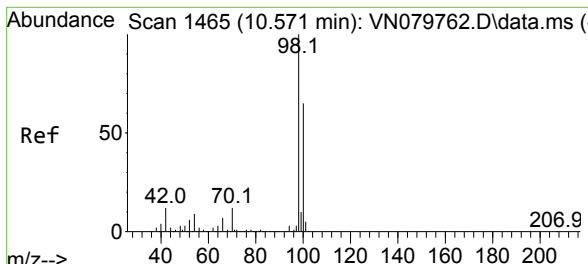
Tgt Ion: 78 Resp: 27497  
Ion Ratio Lower Upper  
78 100  
77 24.9 19.0 28.6



#43  
Isopropyl Acetate  
Concen: 17.956 ug/l  
RT: 8.794 min Scan# 1163  
Delta R.T. 0.106 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

Tgt Ion: 43 Resp: 175574  
Ion Ratio Lower Upper  
43 100  
61 0.3 24.7 37.1#  
87 0.0 14.6 21.8#

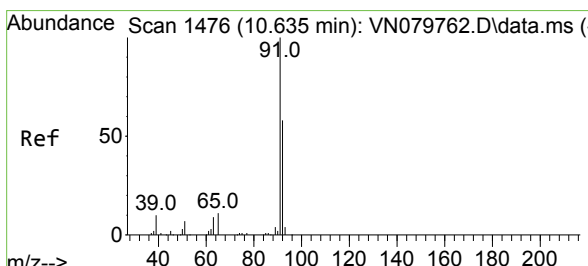
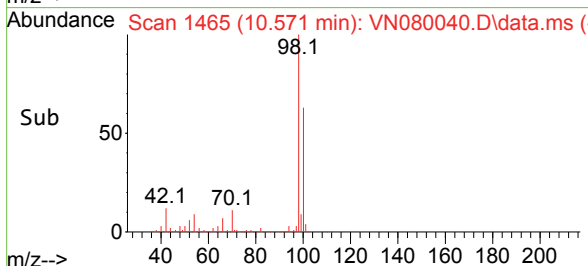
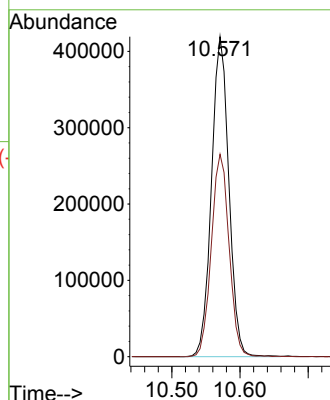
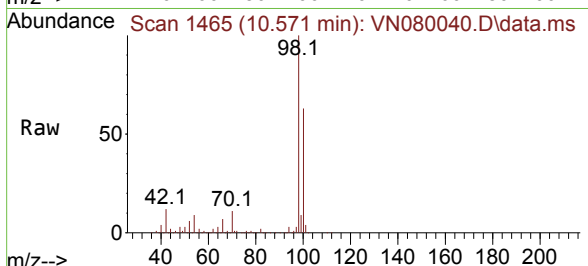




#50  
Toluene-d8  
Concen: 47.479 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

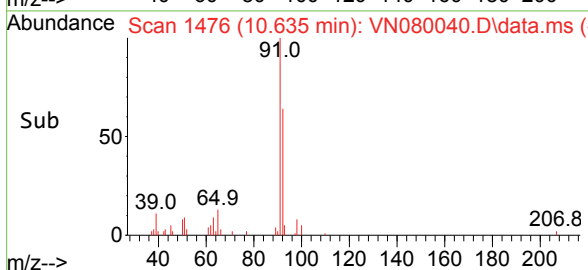
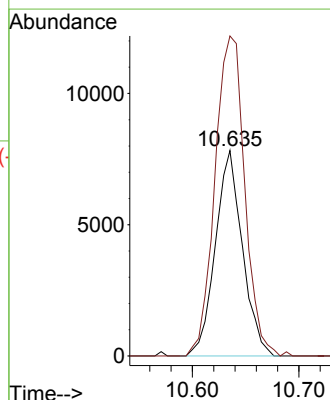
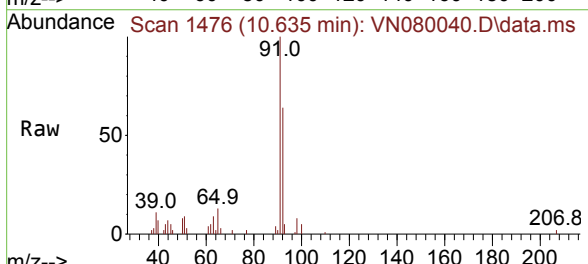
Instrument :  
MSVOA\_N  
ClientSampleId :

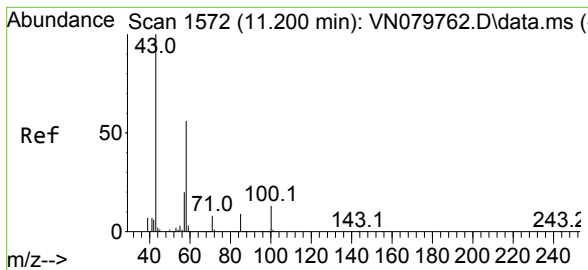
Tgt Ion: 98 Resp: 744215  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.0 78.0



#52  
Toluene  
Concen: 1.278 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

Tgt Ion: 92 Resp: 13798  
Ion Ratio Lower Upper  
92 100  
91 171.9 137.4 206.0

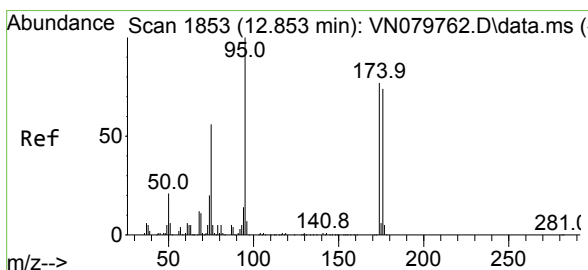
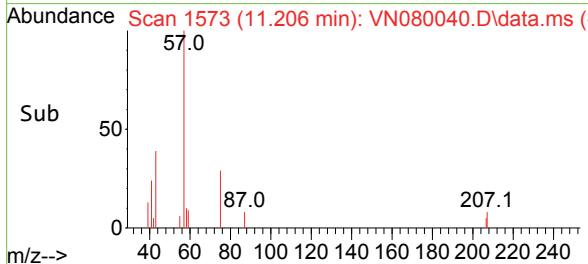
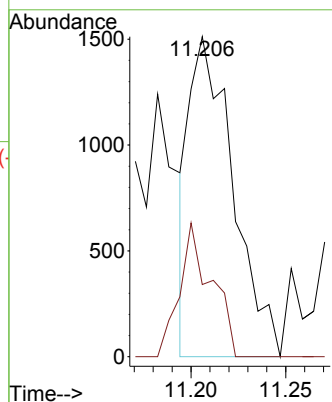
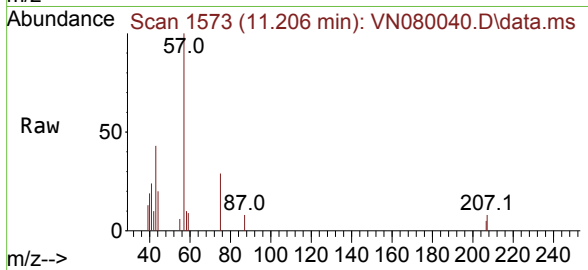




#59  
2-Hexanone  
Concen: 0.577 ug/l  
RT: 11.206 min Scan# 1572  
Delta R.T. 0.006 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

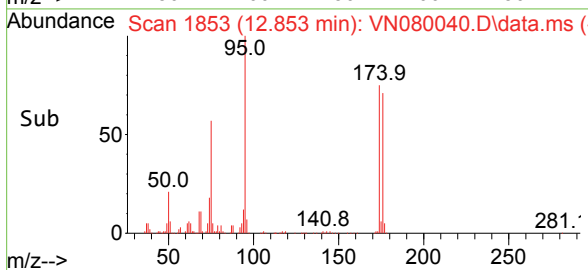
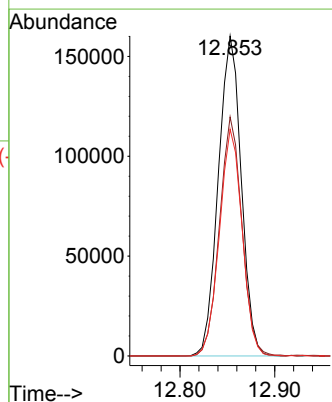
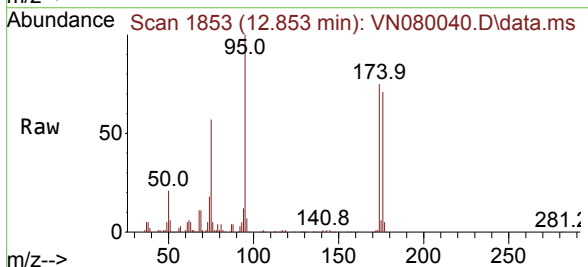
Instrument :  
MSVOA\_N  
ClientSampleId :

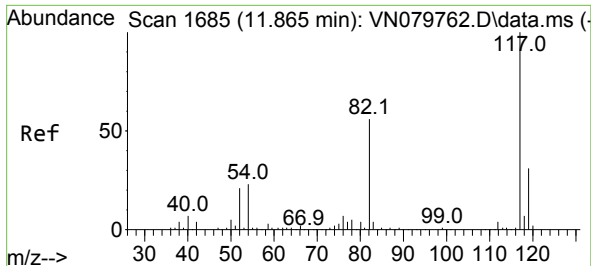
Tgt Ion: 43 Resp: 2430  
Ion Ratio Lower Upper  
43 100  
58 30.4 31.7 95.1#



#62  
4-Bromofluorobenzene  
Concen: 51.890 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

Tgt Ion: 95 Resp: 269750  
Ion Ratio Lower Upper  
95 100  
174 73.2 0.0 143.8  
176 70.2 0.0 135.8

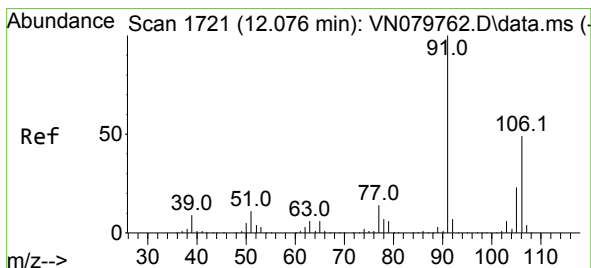
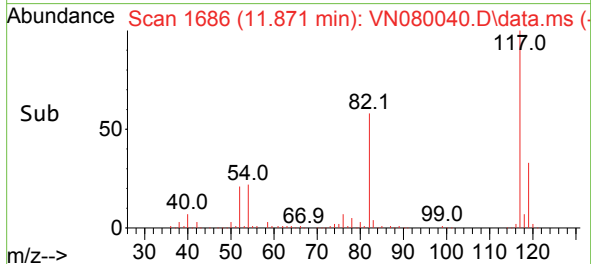
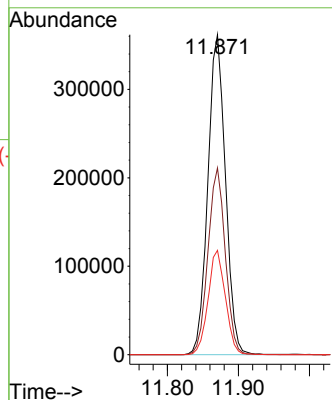
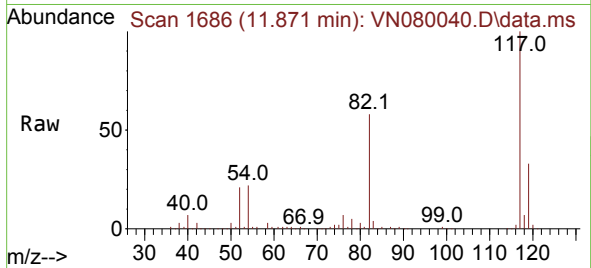




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

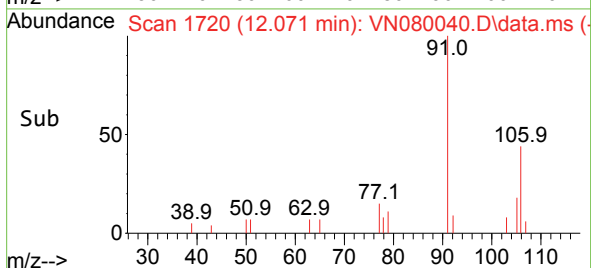
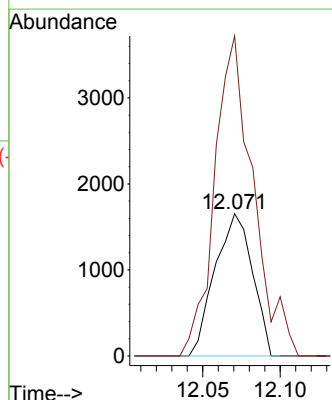
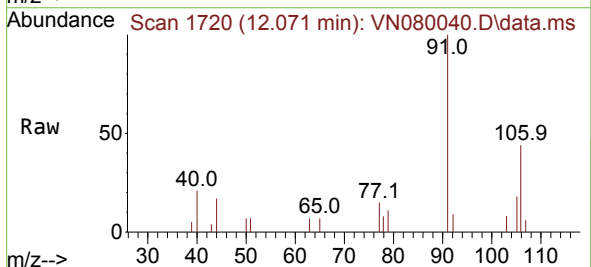
Instrument :  
MSVOA\_N  
ClientSampleId :

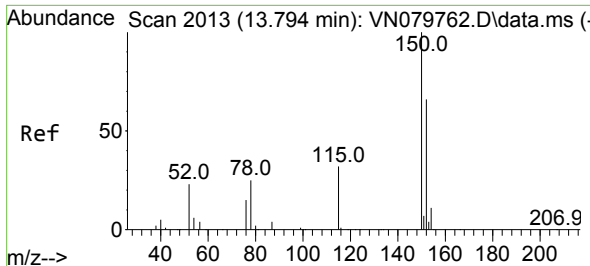
Tgt Ion:117 Resp: 623247  
Ion Ratio Lower Upper  
117 100  
82 58.3 44.0 66.0  
119 32.6 25.6 38.4



#68  
m/p-Xylenes  
Concen: 0.317 ug/l  
RT: 12.071 min Scan# 1720  
Delta R.T. 0.000 min  
Lab File: VN080040.D  
Acq: 09 Nov 2023 22:33

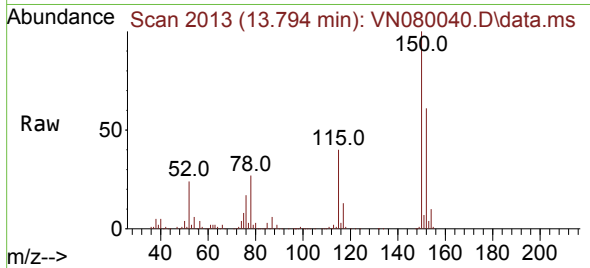
Tgt Ion:106 Resp: 2784  
Ion Ratio Lower Upper  
106 100  
91 230.6 159.6 239.4



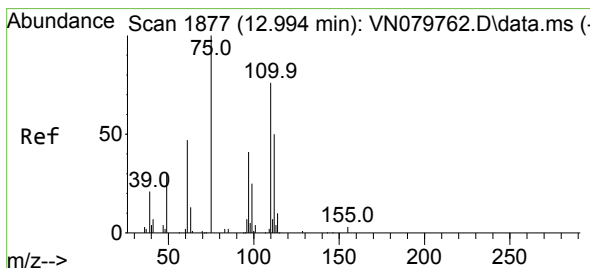
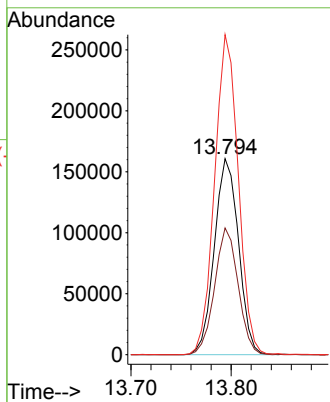
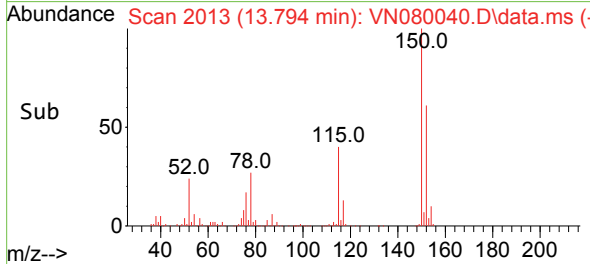


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN080040.D  
 Acq: 09 Nov 2023 22:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :

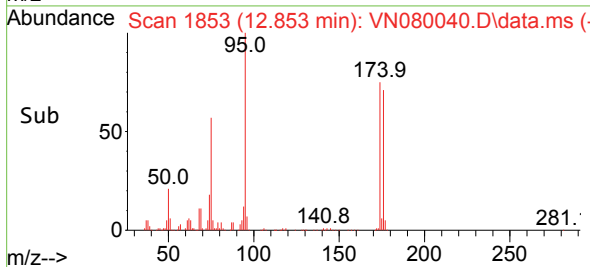
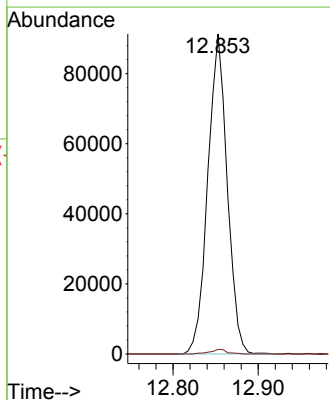
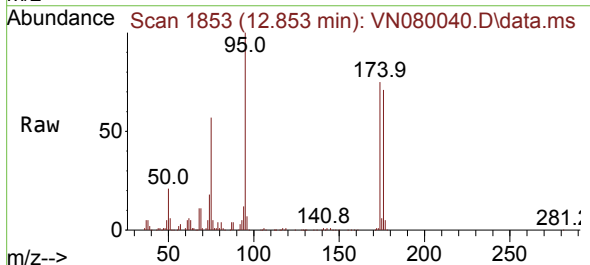


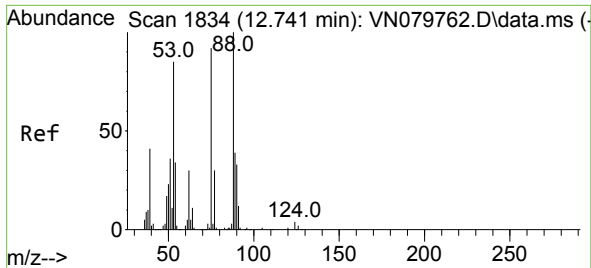
Tgt Ion:152 Resp: 269292  
 Ion Ratio Lower Upper  
 152 100  
 115 62.9 32.3 96.8  
 150 159.7 0.0 355.8



#76  
 1,2,3-Trichloropropane  
 Concen: 22.880 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.141 min  
 Lab File: VN080040.D  
 Acq: 09 Nov 2023 22:33

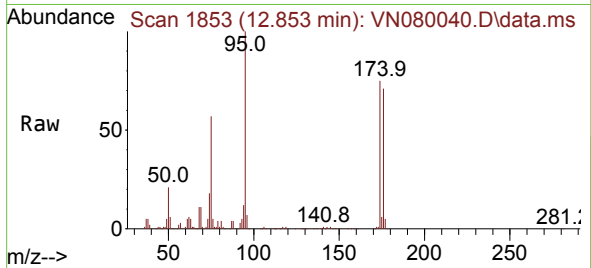
Tgt Ion: 75 Resp: 144650  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 62.250 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN080040.D  
 Acq: 09 Nov 2023 22:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 144650  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 67.4 101.2#  
 89 0.0 38.8 58.2#

