

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072523\  
 Data File : VN078641.D  
 Acq On : 25 Jul 2023 11:55  
 Operator : JC\MD  
 Sample : VN0725MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0725MBL01

Quant Time: Jul 26 04:43:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.236  | 168   | 439166   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112  | 114   | 765659   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 696963   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 258736   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 269462   | 45.769    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 91.540%  |
| 35) Dibromofluoromethane      | 8.171  | 113   | 276008   | 53.104    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 106.200% |
| 50) Toluene-d8                | 10.571 | 98    | 895199   | 45.593    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 91.180%  |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 314842   | 52.058    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 104.120% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.371  | 50    | 2140     | 0.366     | ug/l   | 94       |
| 5) Bromomethane               | 2.977  | 94    | 5918     | Below Cal |        | 92       |
| 6) Chloroethane               | 3.112  | 64    | 578      | Below Cal | #      | 43       |
| 10) Methyl Iodide             | 4.600  | 142   | 2937     | 0.446     | ug/l # | 86       |
| 11) Tert butyl alcohol        | 5.530  | 59    | 690      | 0.760     | ug/l # | 72       |
| 13) Acrolein                  | 4.189  | 56    | 1115     | 1.248     | ug/l # | 16       |
| 15) Acrylonitrile             | 5.747  | 53    | 2731     | 1.191     | ug/l # | 54       |
| 16) Acetone                   | 4.453  | 43    | 2074     | 1.131     | ug/l   | 94       |
| 17) Carbon Disulfide          | 4.718  | 76    | 8872     | 0.662     | ug/l # | 75       |
| 20) Methylene Chloride        | 5.289  | 84    | 2201     | Below Cal | #      | 61       |
| 21) trans-1,2-Dichloroethene  | 5.783  | 96    | 1048     | 0.201     | ug/l # | 33       |
| 25) 2-Butanone                | 7.506  | 43    | 2848     | 0.987     | ug/l # | 37       |
| 29) Tetrahydrofuran           | 7.859  | 42    | 1140     | 0.602     | ug/l # | 40       |
| 31) Cyclohexane               | 8.230  | 56    | 8459     | 1.063     | ug/l # | 25       |
| 38) Carbon Tetrachloride      | 8.236  | 117   | 43857    | 5.377     | ug/l # | 16       |
| 39) Methylcyclohexane         | 9.618  | 83    | 1607     | 0.235     | ug/l # | 84       |
| 43) Isopropyl Acetate         | 8.759  | 43    | 6471     | 0.628     | ug/l # | 49       |
| 49) 1,4-Dioxane               | 9.700  | 88    | 548      | 5.266     | ug/l # | 25       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43    | 4388     | 0.716     | ug/l # | 80       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63    | 781      | 0.289     | ug/l # | 57       |
| 59) 2-Hexanone                | 11.206 | 43    | 7016     | 1.611     | ug/l   | 88       |
| 65) Chlorobenzene             | 11.894 | 112   | 3567     | 0.229     | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.088 | 106   | 2100     | 0.216     | ug/l # | 42       |
| 71) Bromoform                 | 12.582 | 173   | 1041     | 0.256     | ug/l # | 88       |
| 74) N-amyl acetate            | 12.494 | 43    | 3346     | 0.399     | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.947 | 83    | 2290     | Below Cal | #      | 87       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 160258   | 25.625    | ug/l # | 1        |
| 77) Bromobenzene              | 12.988 | 156   | 2041     | Below Cal |        | 90       |
| 78) n-propylbenzene           | 13.041 | 91    | 5770     | 0.222     | ug/l   | 87       |
| 79) 2-Chlorotoluene           | 13.129 | 91    | 4002     | 0.235     | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.182 | 105   | 4957     | 0.258     | ug/l   | 91       |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 160258   | 67.338    | ug/l # | 15       |
| 82) 4-Chlorotoluene           | 13.235 | 91    | 6013     | 0.378     | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119   | 3321     | 0.204     | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.494 | 105   | 6031     | 0.323     | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.623 | 105   | 8080     | 0.392     | ug/l   | 97       |

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 ALS Vial : 3 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

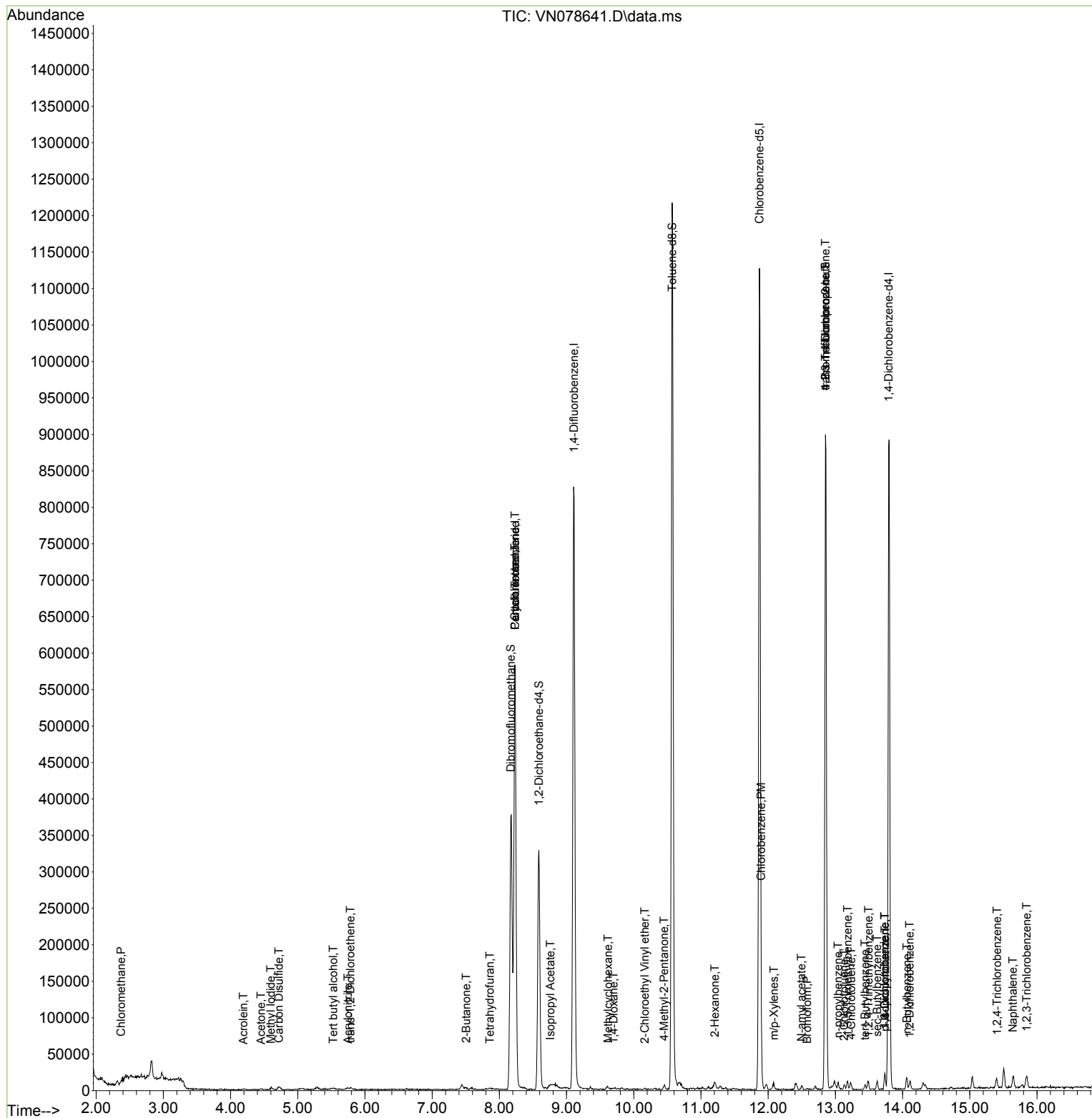
| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| -----                         |        |      |          |           |        |          |
| 86) p-Isopropyltoluene        | 13.741 | 119  | 6460     | 0.390     | ug/l   | 93       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 5200     | 0.557     | ug/l   | 87       |
| 88) 1,4-Dichlorobenzene       | 13.735 | 146  | 5200     | 0.553     | ug/l   | 90       |
| 89) n-Butylbenzene            | 14.065 | 91   | 8800     | 0.743     | ug/l   | 94       |
| 90) Hexachloroethane          | 14.329 | 117  | 1226     | Below Cal | #      | 56       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 4083     | 0.440     | ug/l   | 85       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 472      | Below Cal | #      | 26       |
| 93) 1,2,4-Trichlorobenzene    | 15.406 | 180  | 4448     | 1.500     | ug/l   | 84       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 5141     | Below Cal |        | 93       |
| 95) Naphthalene               | 15.641 | 128  | 15995    | 1.578     | ug/l # | 91       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 6234     | 1.829     | ug/l   | 97       |
| -----                         |        |      |          |           |        |          |

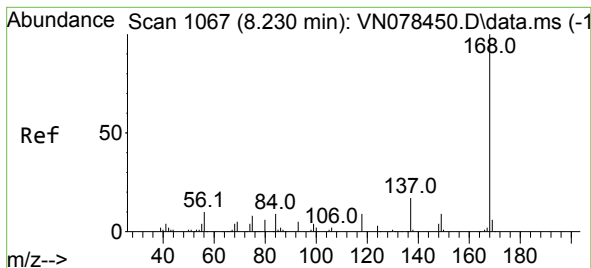
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

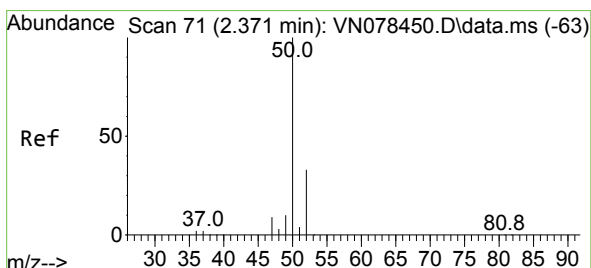
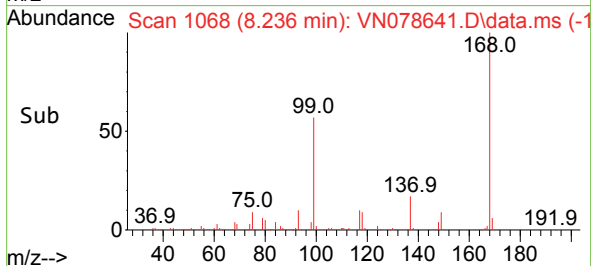
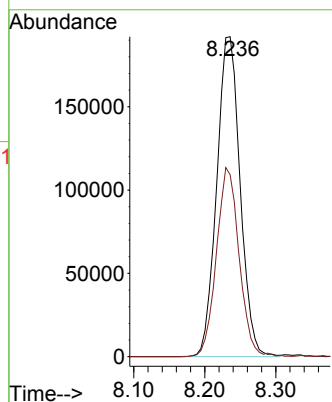
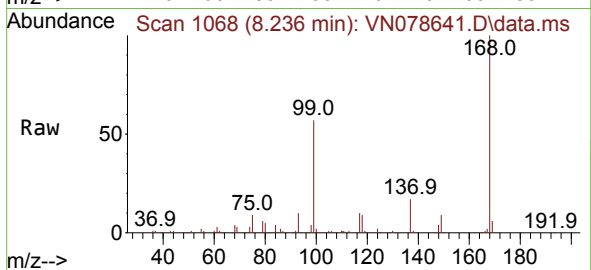
VN0725MBL01

Tgt Ion:168 Resp: 439166

Ion Ratio Lower Upper

168 100

99 56.8 53.0 79.6



#3

Chloromethane

Concen: 0.366 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078641.D

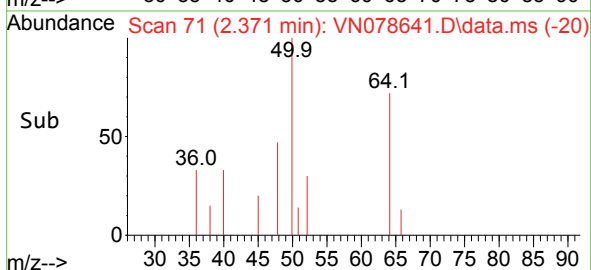
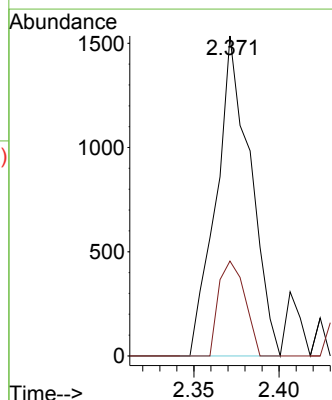
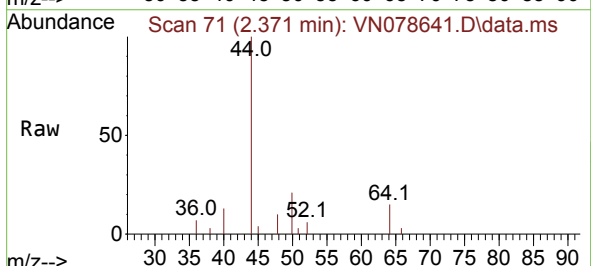
Acq: 25 Jul 2023 11:55

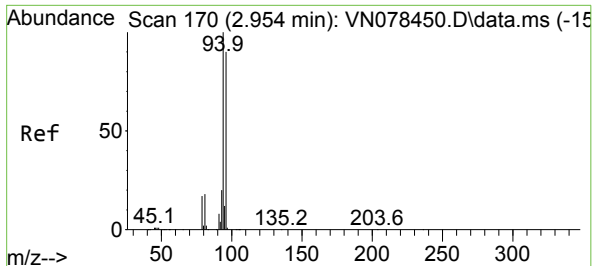
Tgt Ion: 50 Resp: 2140

Ion Ratio Lower Upper

50 100

52 29.6 26.5 39.7

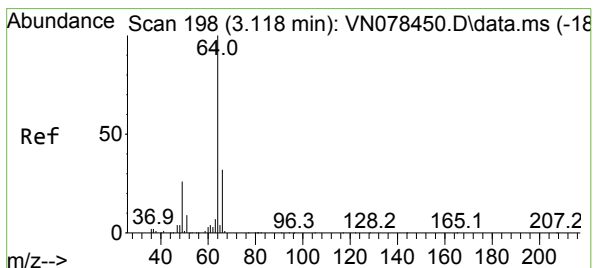
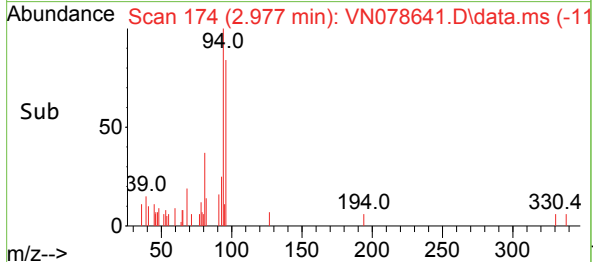
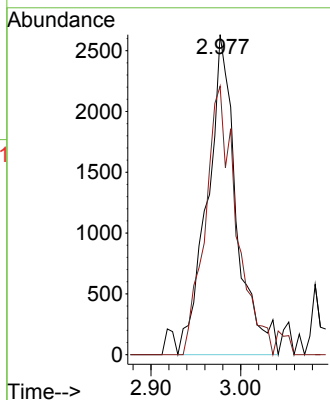
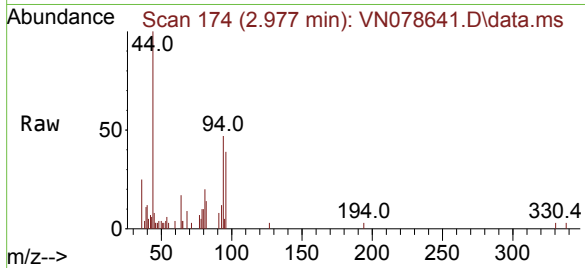




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.977 min Scan# 11  
Delta R.T. 0.023 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

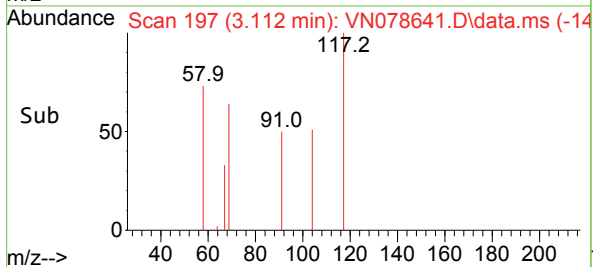
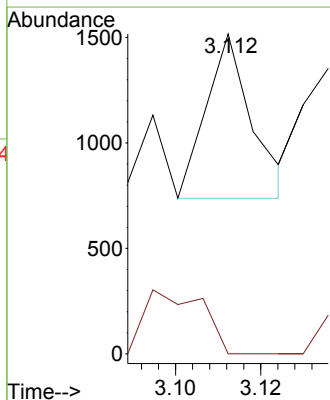
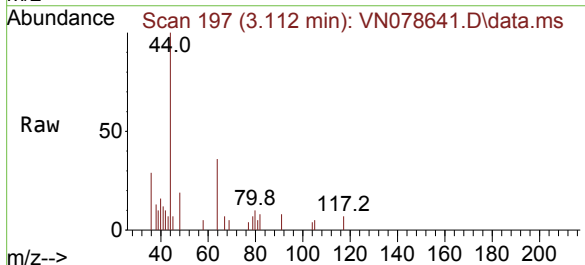
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

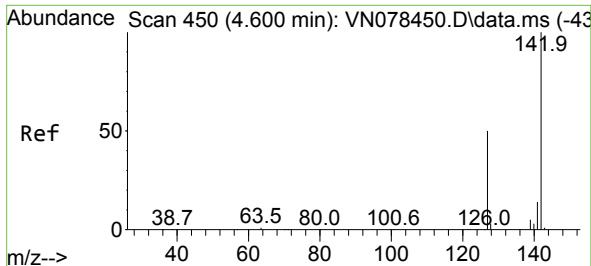
Tgt Ion: 94 Resp: 5918  
Ion Ratio Lower Upper  
94 100  
96 83.9 73.1 109.7



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.112 min Scan# 197  
Delta R.T. -0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 64 Resp: 578  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#

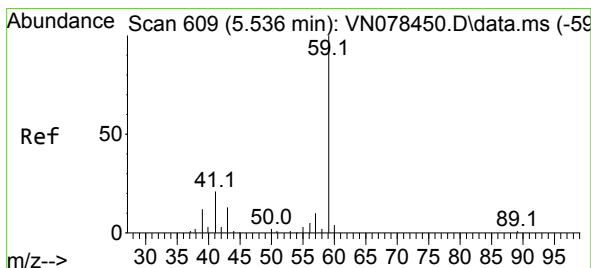
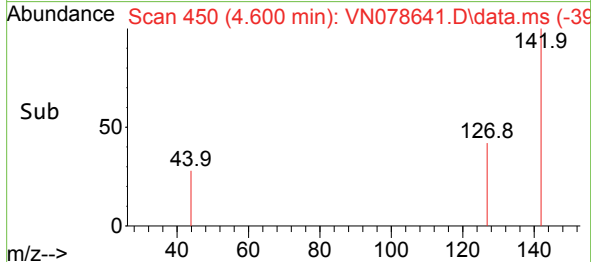
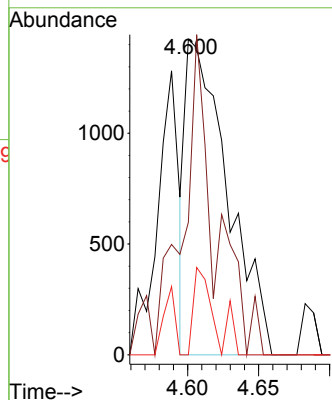
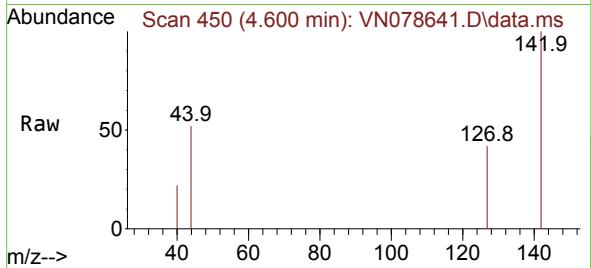




#10  
Methyl Iodide  
Concen: 0.446 ug/l  
RT: 4.600 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

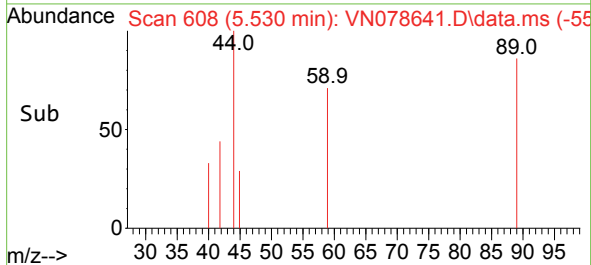
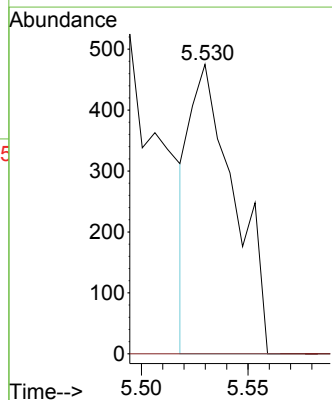
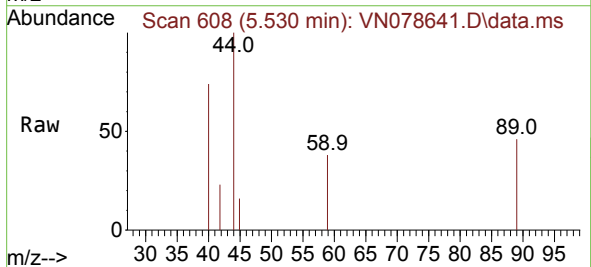
Instrument :  
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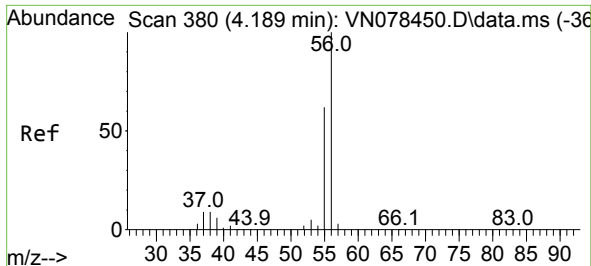
Tgt Ion:142 Resp: 2937  
Ion Ratio Lower Upper  
142 100  
127 42.0 37.6 56.4  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 0.760 ug/l  
RT: 5.530 min Scan# 608  
Delta R.T. -0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 59 Resp: 690  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

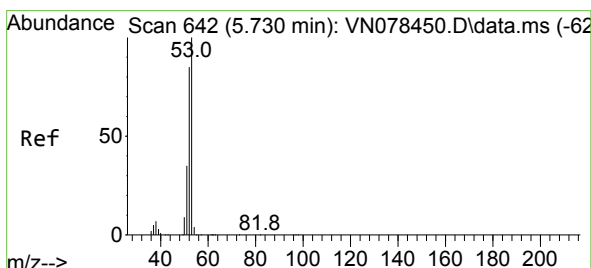
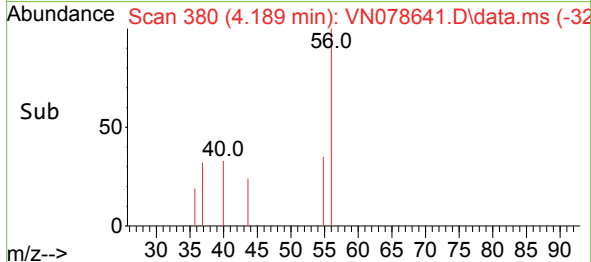
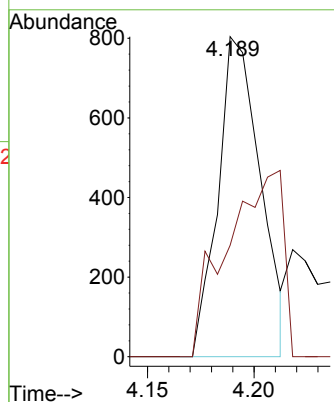
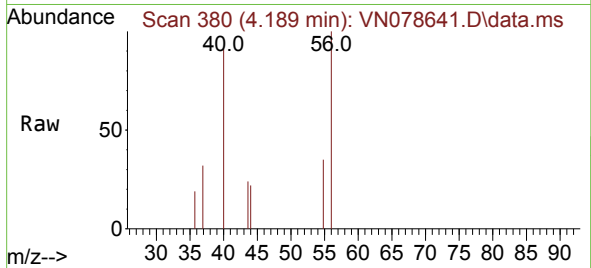




#13  
Acrolein  
Concen: 1.248 ug/l  
RT: 4.189 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

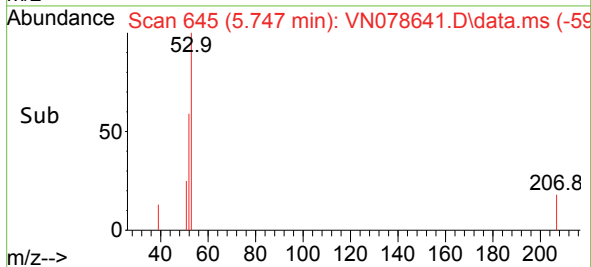
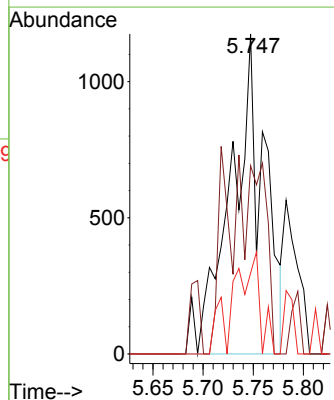
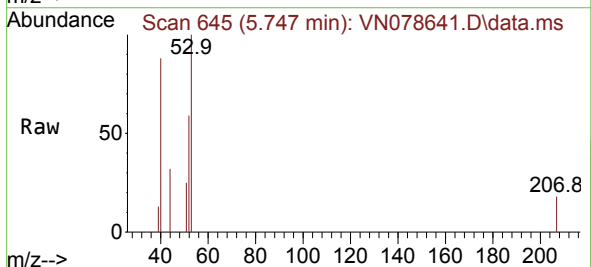
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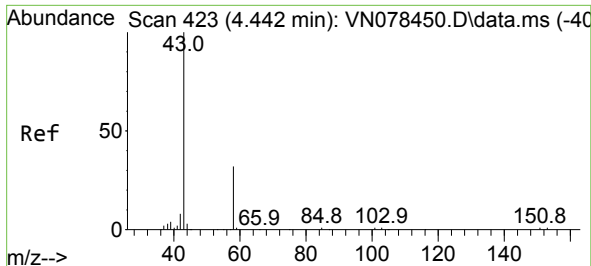
Tgt Ion: 56 Resp: 1115  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.5 81.7#



#15  
Acrylonitrile  
Concen: 1.191 ug/l  
RT: 5.747 min Scan# 645  
Delta R.T. 0.017 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 53 Resp: 2731  
Ion Ratio Lower Upper  
53 100  
52 32.2 65.3 97.9#  
51 21.2 28.9 43.3#

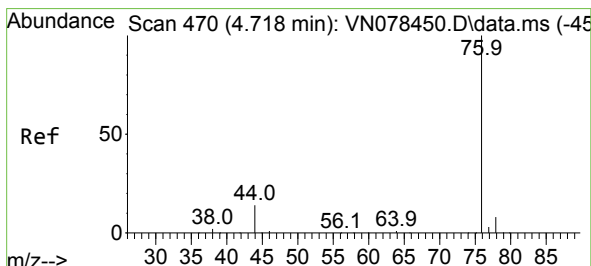
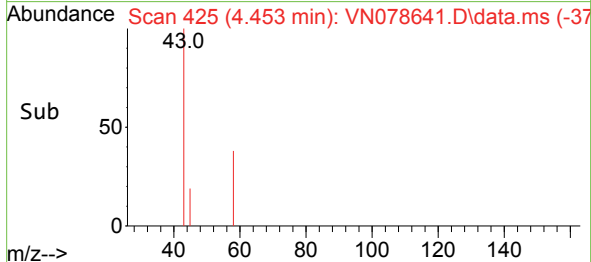
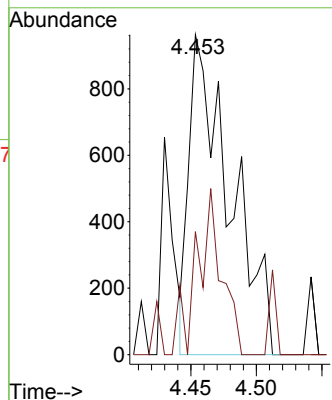
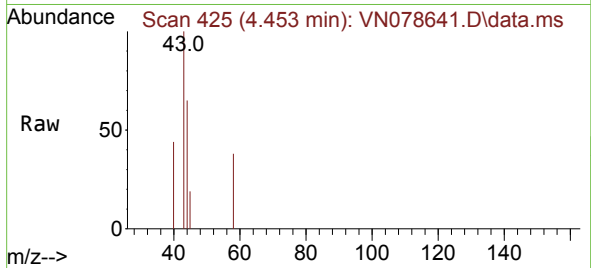




#16  
Acetone  
Concen: 1.131 ug/l  
RT: 4.453 min Scan# 41  
Delta R.T. 0.011 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

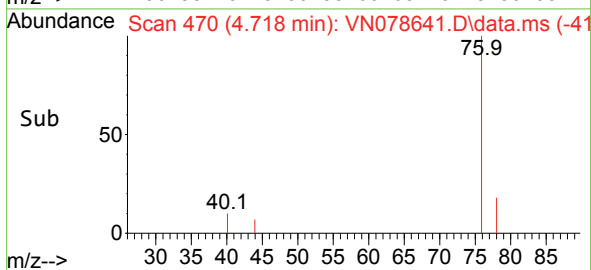
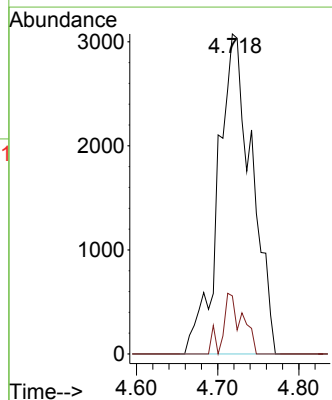
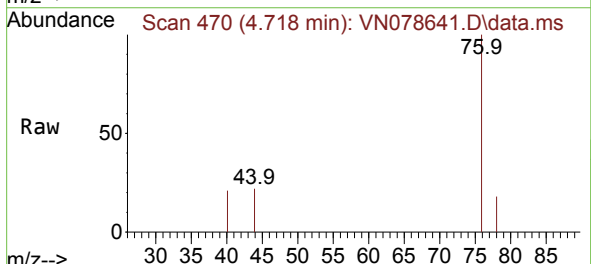
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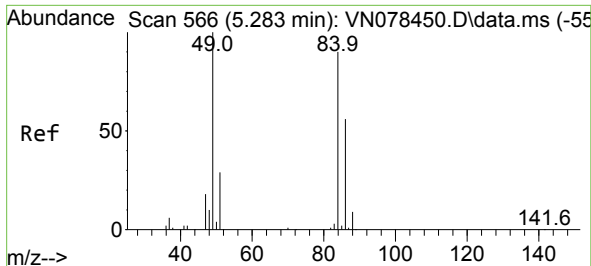
Tgt Ion: 43 Resp: 2074  
Ion Ratio Lower Upper  
43 100  
58 38.4 28.0 42.0



#17  
Carbon Disulfide  
Concen: 0.662 ug/l  
RT: 4.718 min Scan# 470  
Delta R.T. 0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 76 Resp: 8872  
Ion Ratio Lower Upper  
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78 18.1 7.4 11.0#

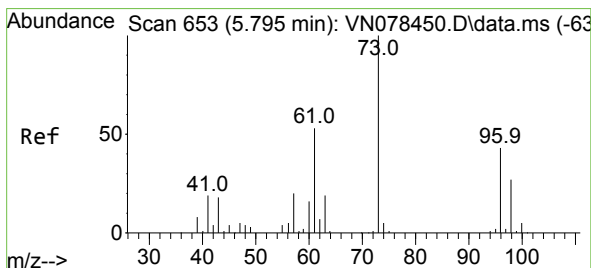
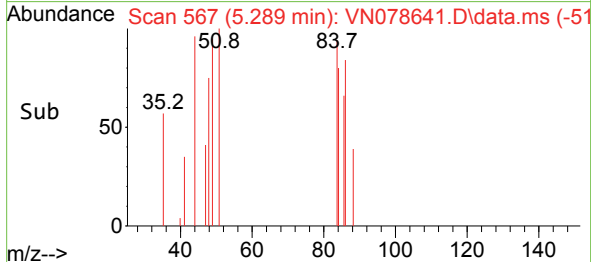
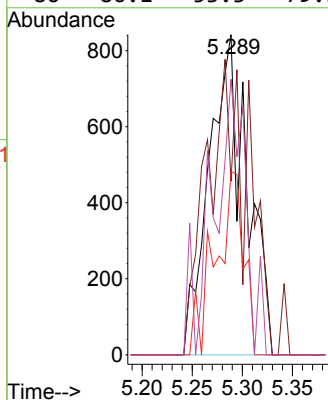
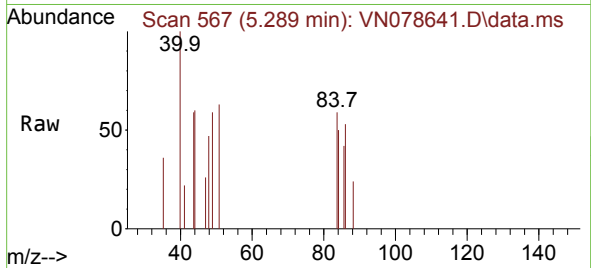




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.289 min Scan# 511  
Delta R.T. 0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

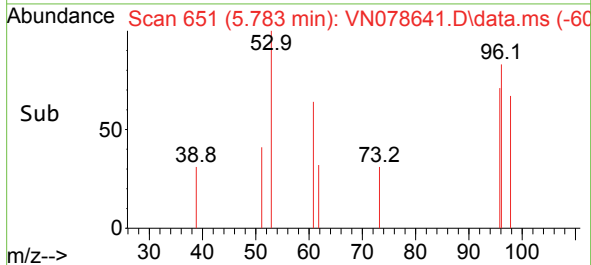
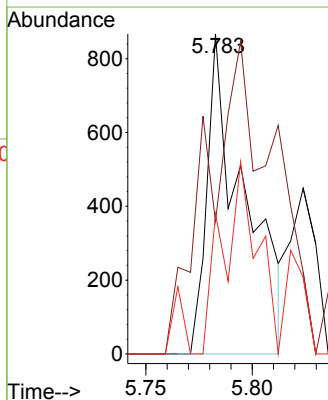
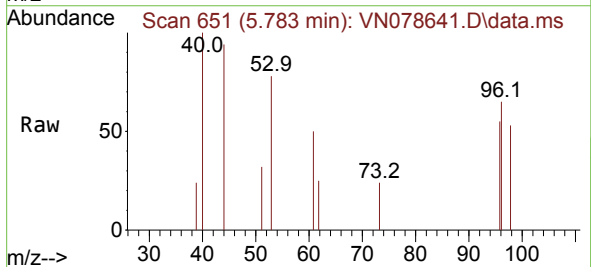
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

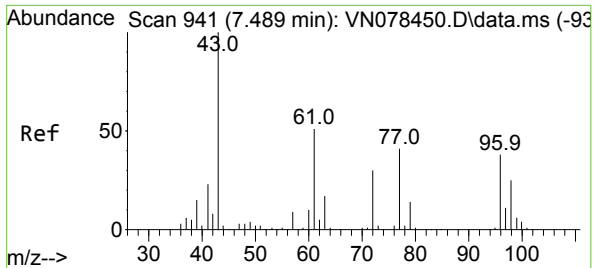
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2201   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 54.2  | 79.7  | 119.5# |
| 51       | 57.2  | 25.2  | 37.8#  |
| 86       | 86.1  | 53.3  | 79.9#  |



#21  
trans-1,2-Dichloroethene  
Concen: 0.201 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.012 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 1048   |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 14.3  | 90.1  | 135.1# |
| 98       | 43.8  | 46.4  | 69.6#  |

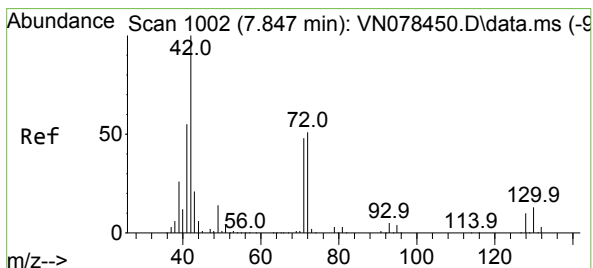
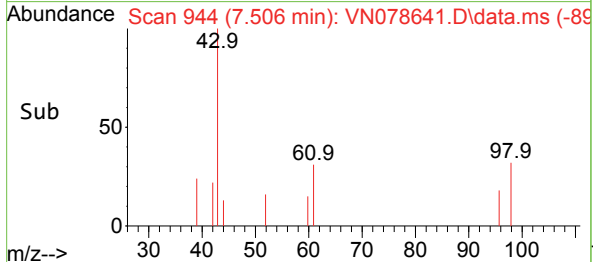
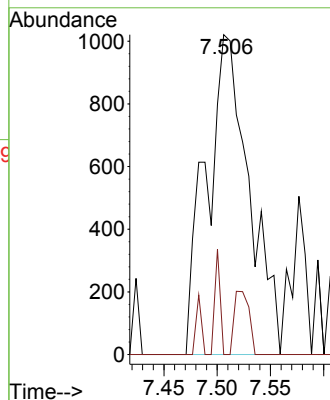
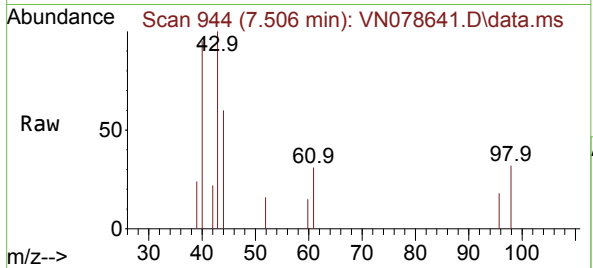




#25  
2-Butanone  
Concen: 0.987 ug/l  
RT: 7.506 min Scan# 941  
Delta R.T. 0.017 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

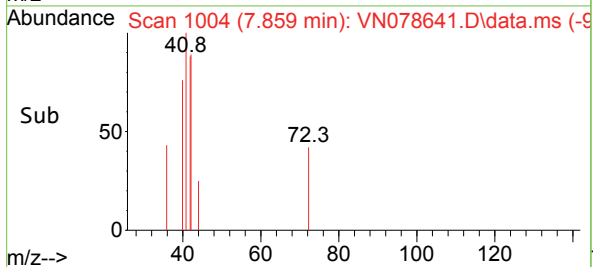
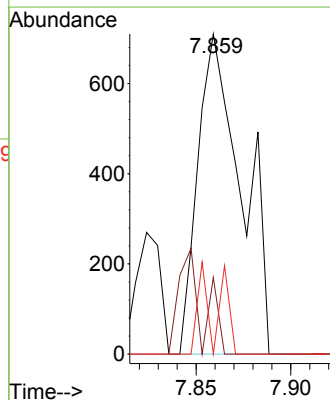
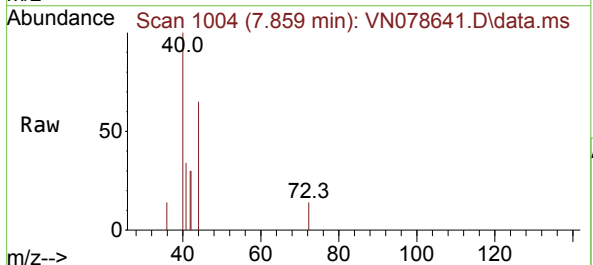
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

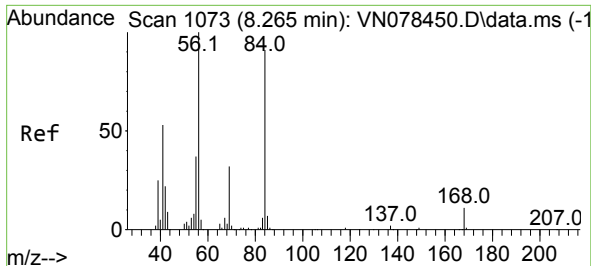
Tgt Ion: 43 Resp: 2848  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



#29  
Tetrahydrofuran  
Concen: 0.602 ug/l  
RT: 7.859 min Scan# 1004  
Delta R.T. 0.012 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

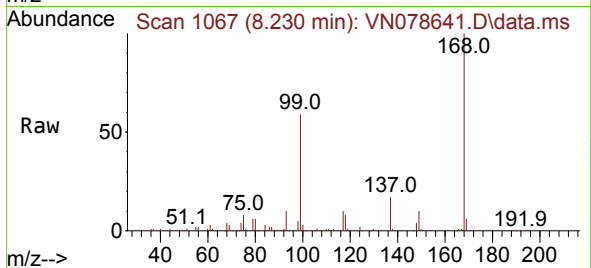
Tgt Ion: 42 Resp: 1140  
Ion Ratio Lower Upper  
42 100  
72 18.0 49.8 74.6#  
71 12.4 47.4 71.2#



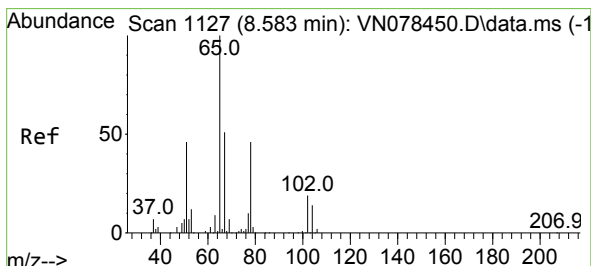
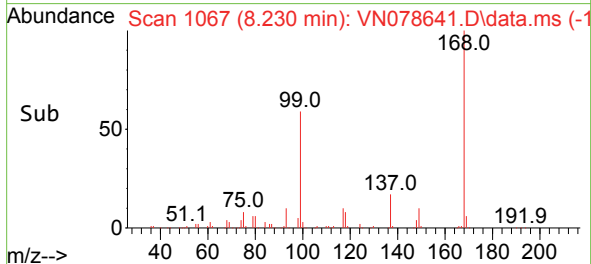
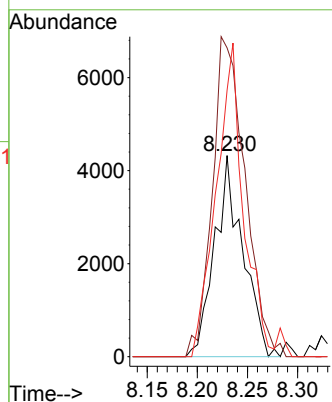


#31  
Cyclohexane  
Concen: 1.063 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.035 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

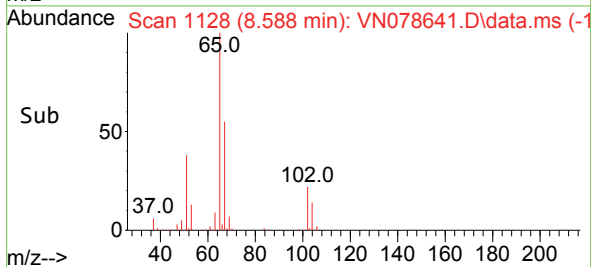
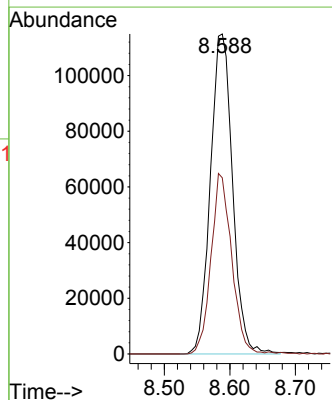
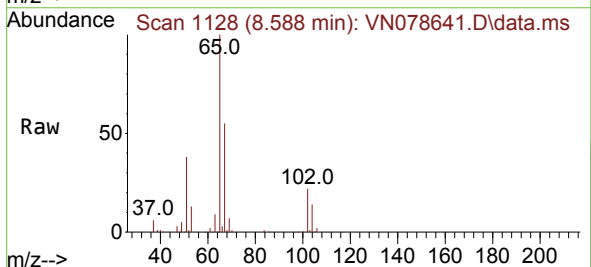


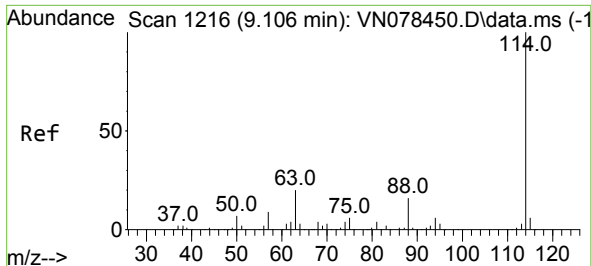
Tgt Ion: 56 Resp: 8459  
Ion Ratio Lower Upper  
56 100  
69 153.6 26.8 40.2#  
84 132.5 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 45.769 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.005 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 65 Resp: 269462  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 106.6

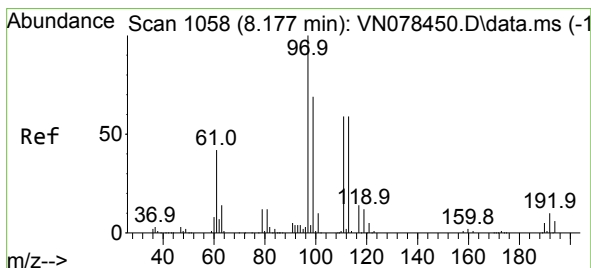
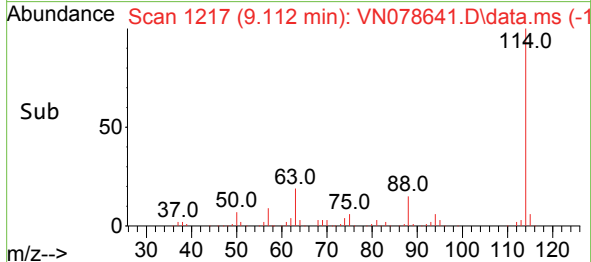
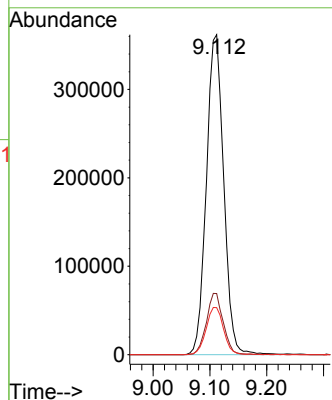
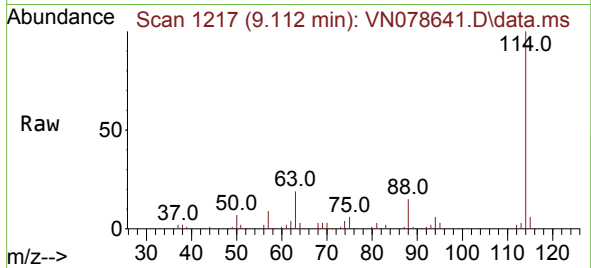




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.112 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

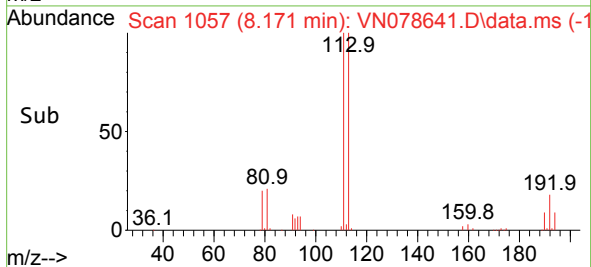
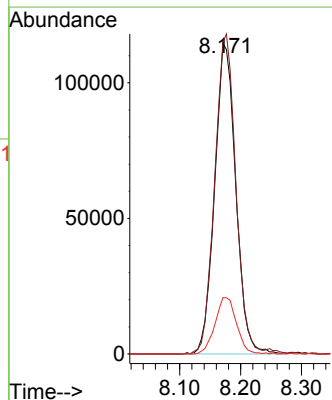
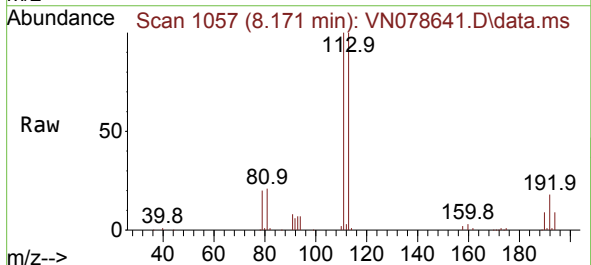
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

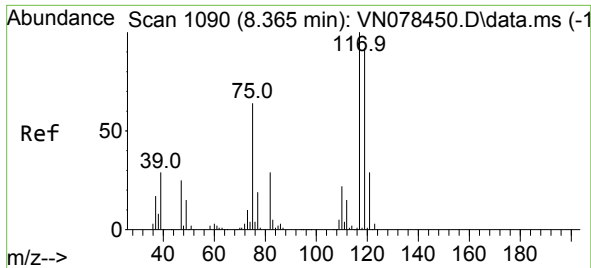
Tgt Ion:114 Resp: 765659  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 36.4  
88 14.7 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 53.104 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion:113 Resp: 276008  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.6 123.8  
192 18.5 12.7 19.1

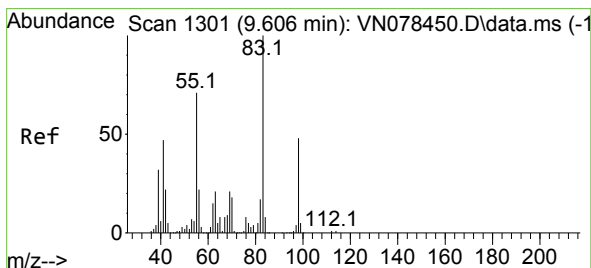
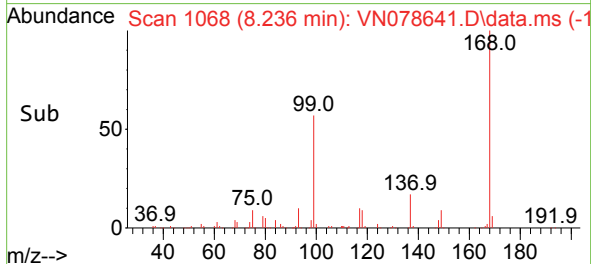
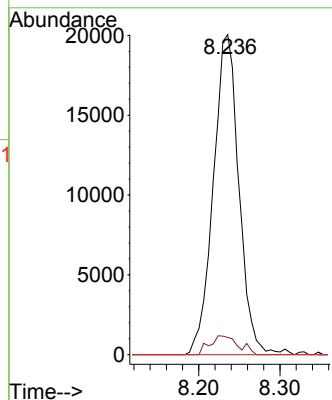
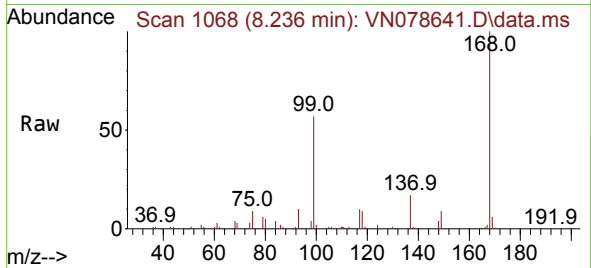




#38  
Carbon Tetrachloride  
Concen: 5.377 ug/l  
RT: 8.236 min Scan# 1090  
Delta R.T. -0.129 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

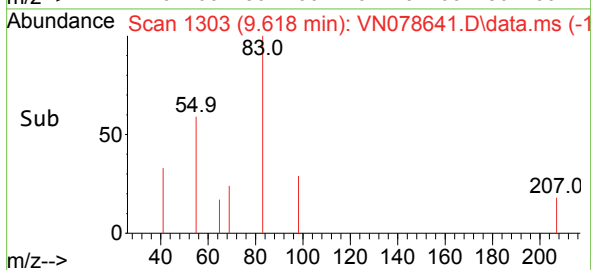
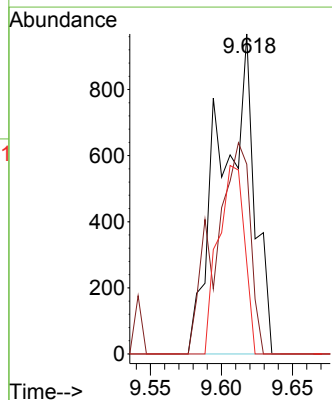
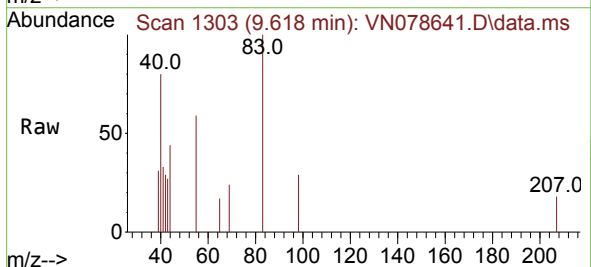
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

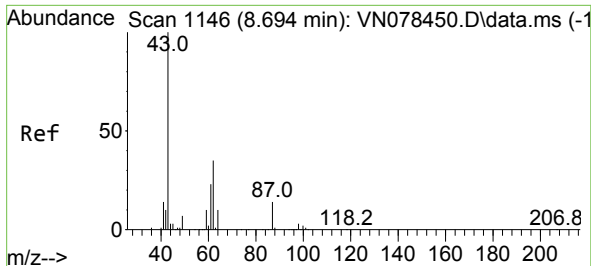
Tgt Ion:117 Resp: 43857  
Ion Ratio Lower Upper  
117 100  
119 5.4 77.3 115.9#  
121 0.0 23.3 34.9#



#39  
Methylcyclohexane  
Concen: 0.235 ug/l  
RT: 9.618 min Scan# 1303  
Delta R.T. 0.012 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 83 Resp: 1607  
Ion Ratio Lower Upper  
83 100  
55 59.3 49.1 73.7  
98 28.5 40.6 61.0#

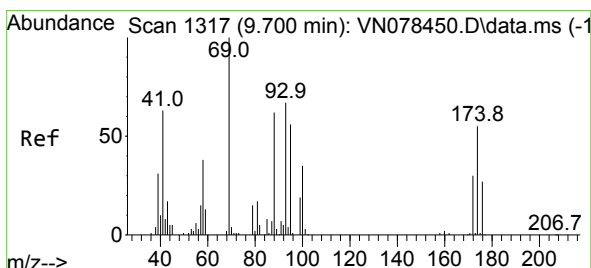
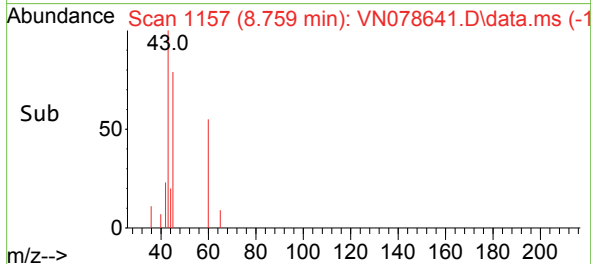
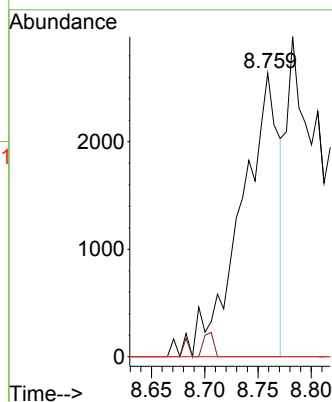
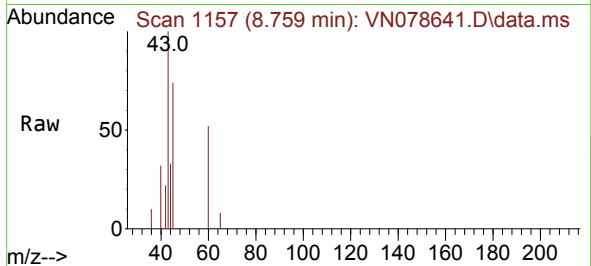




#43  
Isopropyl Acetate  
Concen: 0.628 ug/l  
RT: 8.759 min Scan# 1157  
Delta R.T. 0.065 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

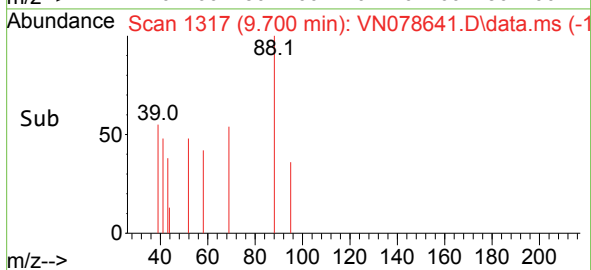
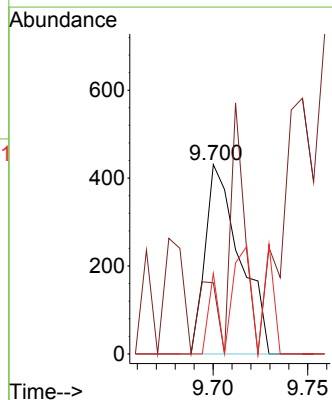
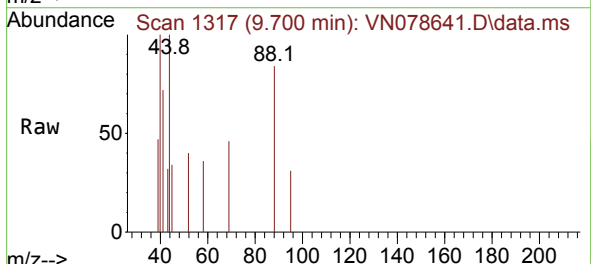
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

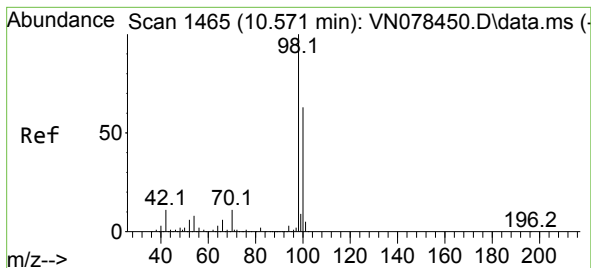
Tgt Ion: 43 Resp: 6471  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#



#49  
1,4-Dioxane  
Concen: 5.266 ug/l  
RT: 9.700 min Scan# 1317  
Delta R.T. 0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 88 Resp: 548  
Ion Ratio Lower Upper  
88 100  
43 51.8 17.0 25.6#  
58 0.0 47.0 70.4#





#50

Toluene-d8

Concen: 45.593 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

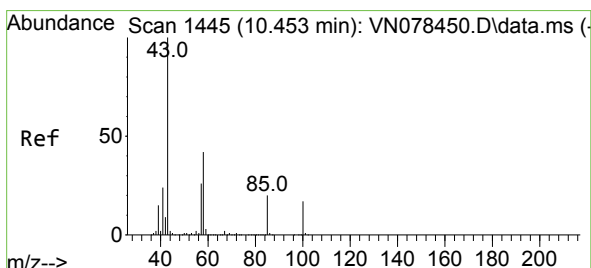
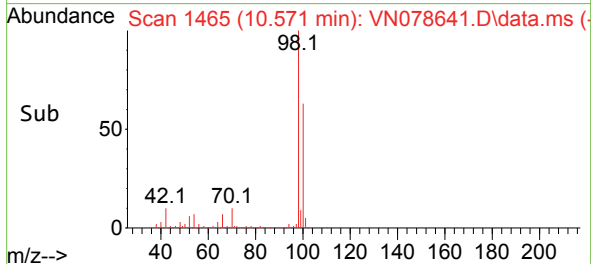
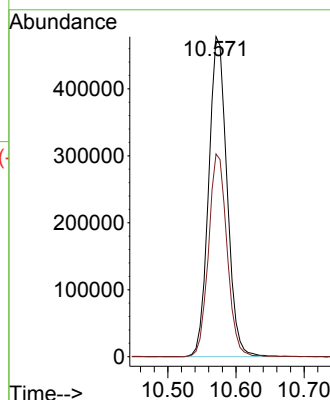
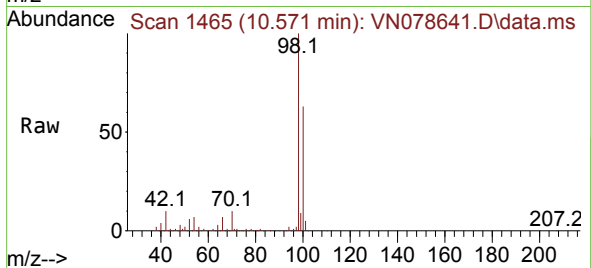
VN0725MBL01

Tgt Ion: 98 Resp: 895199

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.716 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN078641.D

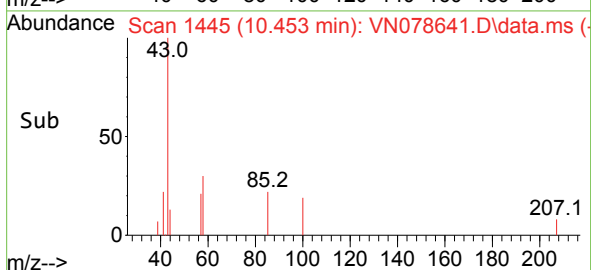
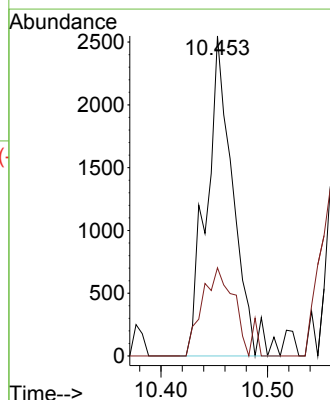
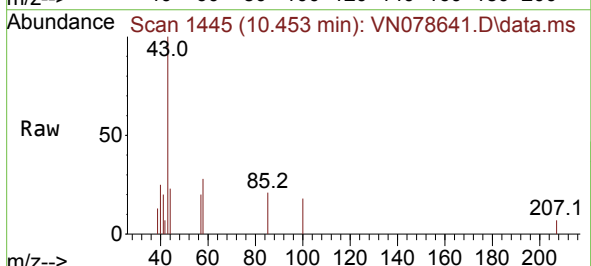
Acq: 25 Jul 2023 11:55

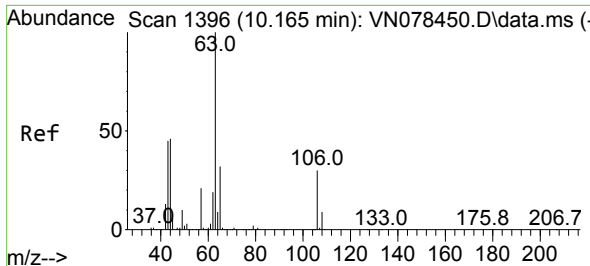
Tgt Ion: 43 Resp: 4388

Ion Ratio Lower Upper

43 100

58 32.5 36.6 54.8#

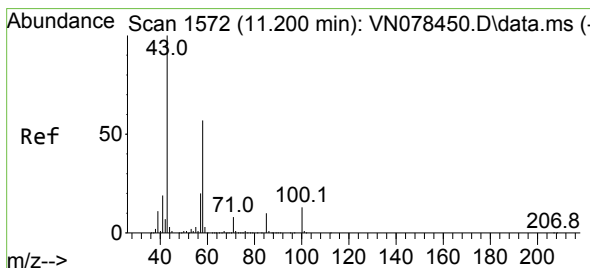
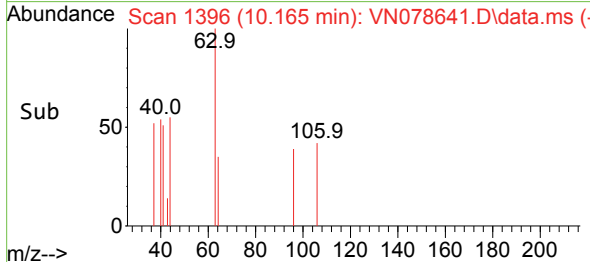
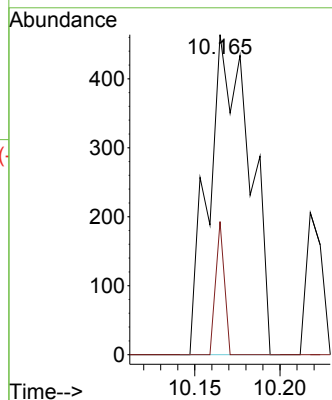
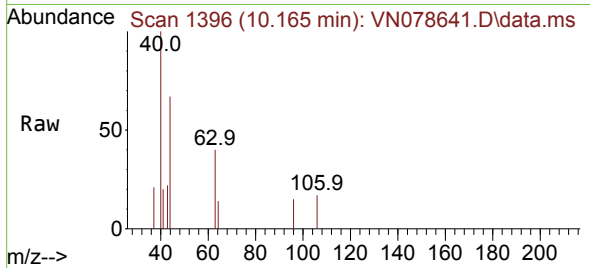




#58  
2-Chloroethyl Vinyl ether  
Concen: 0.289 ug/l  
RT: 10.165 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

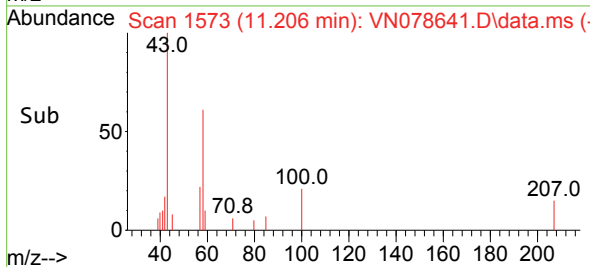
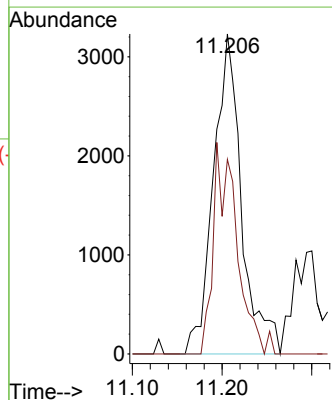
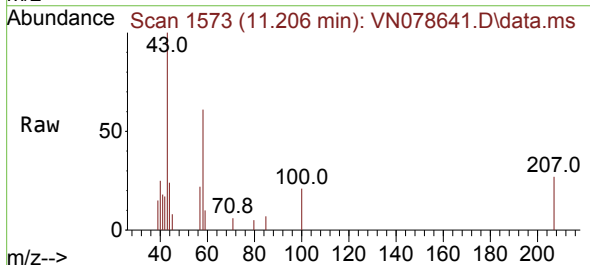
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

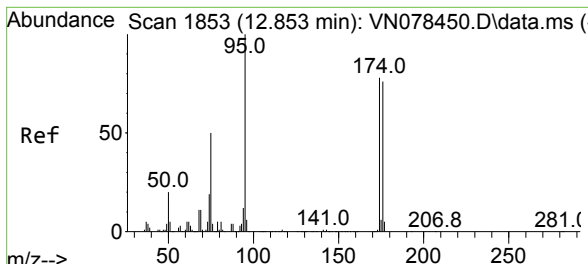
Tgt Ion: 63 Resp: 781  
Ion Ratio Lower Upper  
63 100  
106 8.7 26.2 39.4#



#59  
2-Hexanone  
Concen: 1.611 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 43 Resp: 7016  
Ion Ratio Lower Upper  
43 100  
58 54.4 31.7 95.1



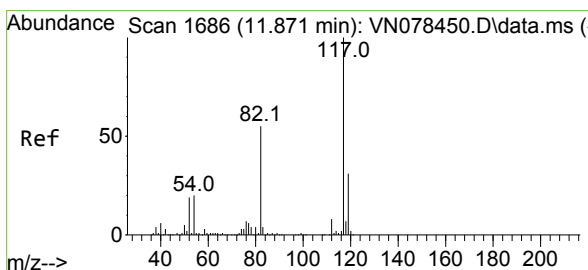
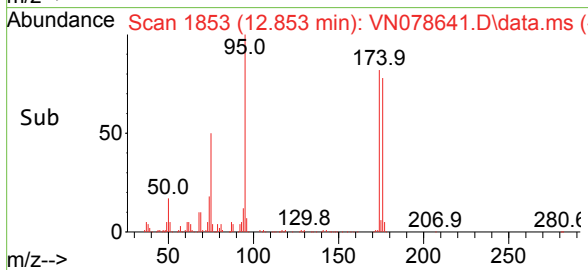
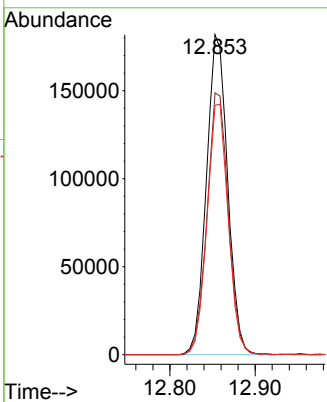
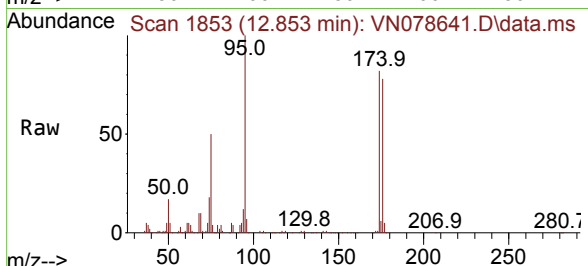


#62  
4-Bromofluorobenzene  
Concen: 52.058 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

Tgt Ion: 95 Resp: 314842

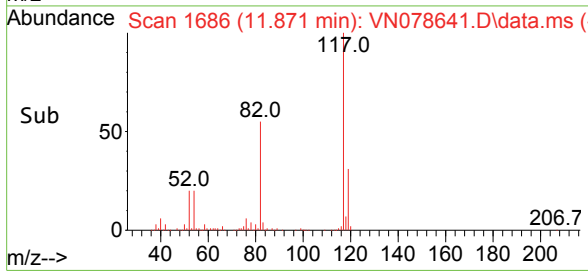
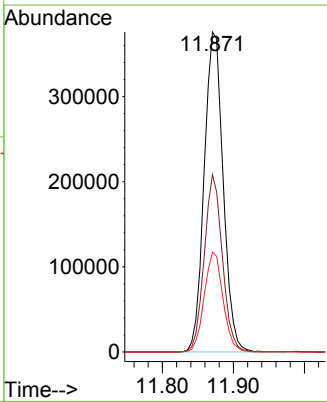
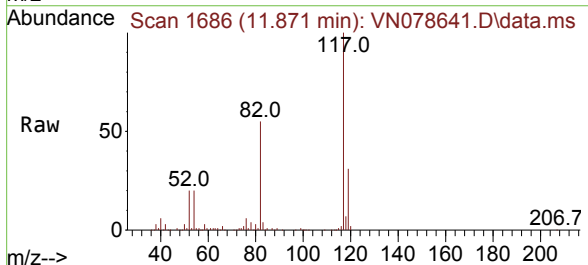
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 82.4  | 0.0   | 143.8 |
| 176 | 77.8  | 0.0   | 135.8 |

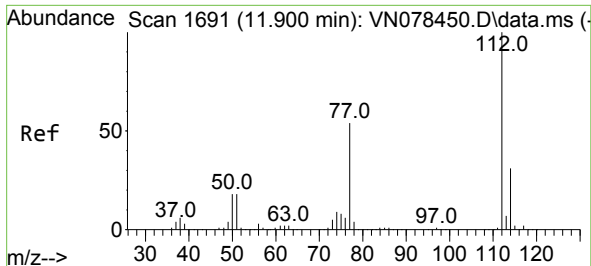


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 117 Resp: 696963

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 55.4  | 44.0  | 66.0  |
| 119 | 31.2  | 25.6  | 38.4  |

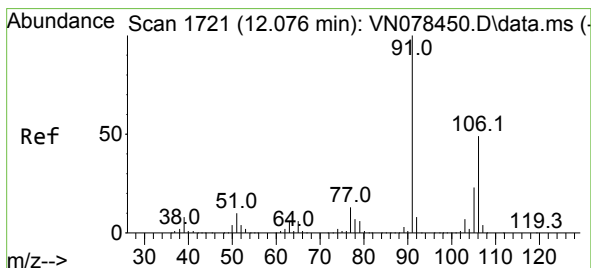
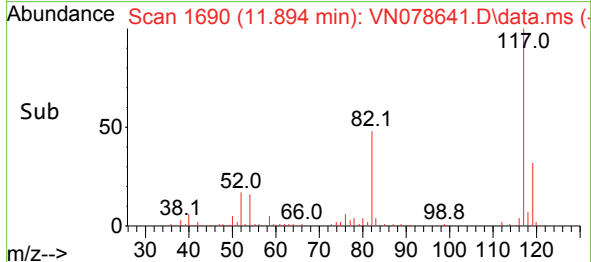
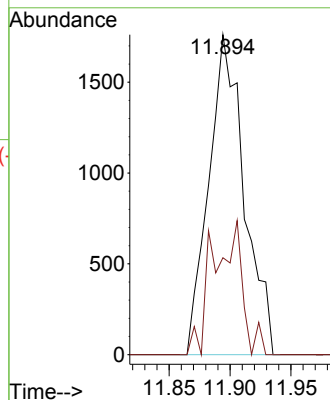
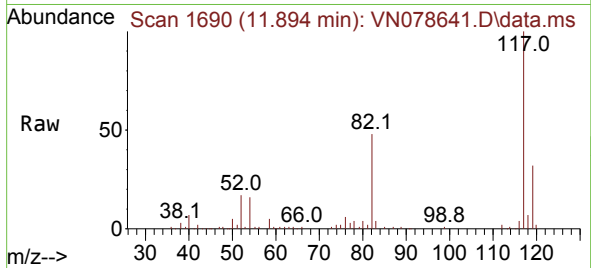




#65  
Chlorobenzene  
Concen: 0.229 ug/l  
RT: 11.894 min Scan# 1189  
Delta R.T. -0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

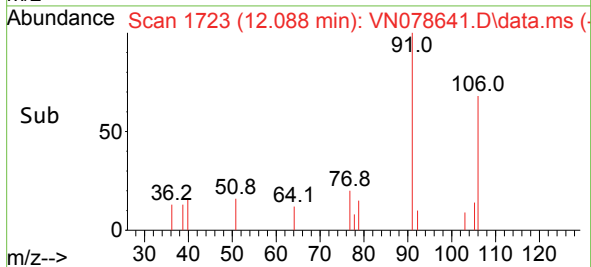
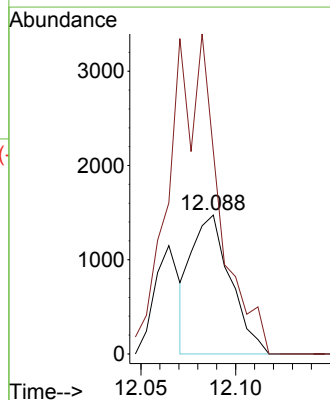
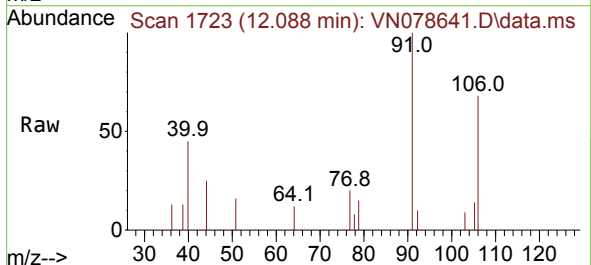
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

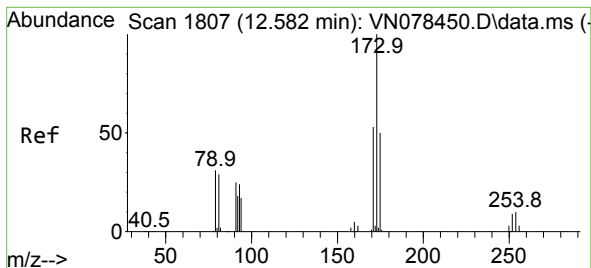
Tgt Ion:112 Resp: 3567  
Ion Ratio Lower Upper  
112 100  
114 30.3 25.0 37.4



#68  
m/p-Xylenes  
Concen: 0.216 ug/l  
RT: 12.088 min Scan# 1723  
Delta R.T. 0.012 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion:106 Resp: 2100  
Ion Ratio Lower Upper  
106 100  
91 287.9 159.6 239.4#





#71

Bromoform

Concen: 0.256 ug/l

RT: 12.582 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0725MBL01

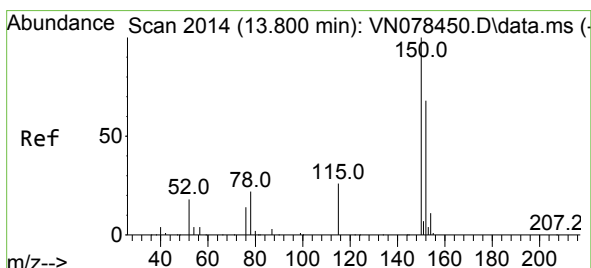
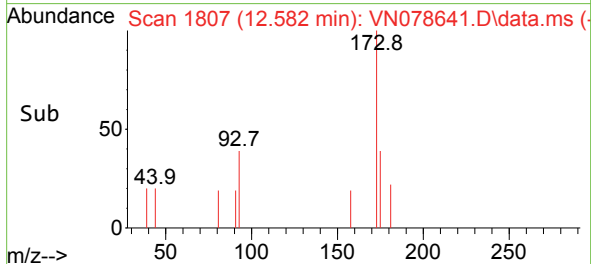
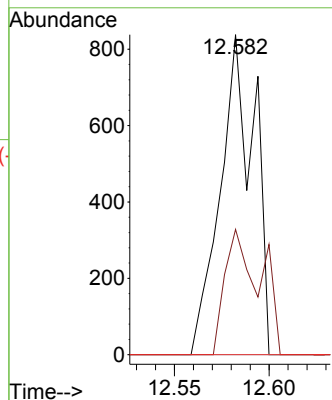
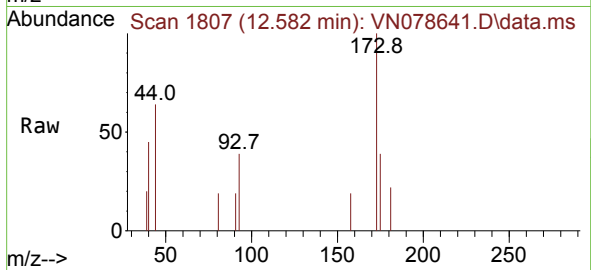
Tgt Ion:173 Resp: 1041

Ion Ratio Lower Upper

173 100

175 40.7 24.3 73.0

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

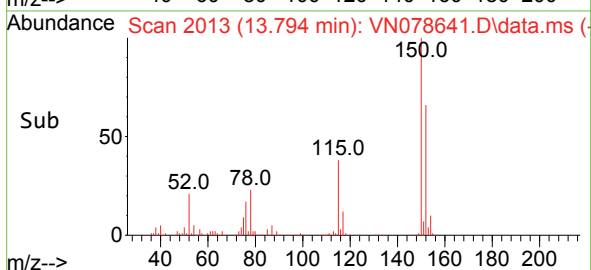
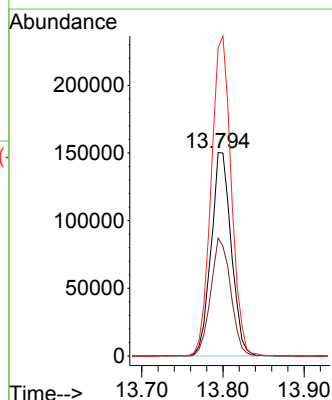
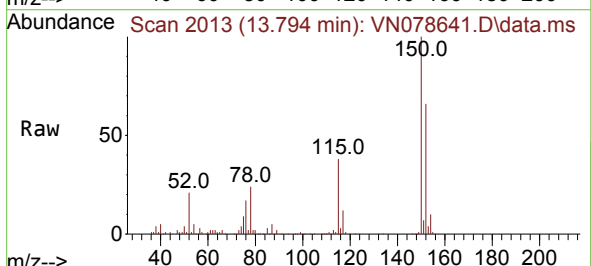
Tgt Ion:152 Resp: 258736

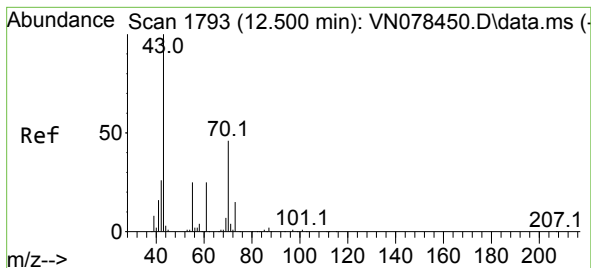
Ion Ratio Lower Upper

152 100

115 57.5 32.3 96.8

150 157.2 0.0 355.8





#74

N-amy1 acetate

Concen: 0.399 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078641.D

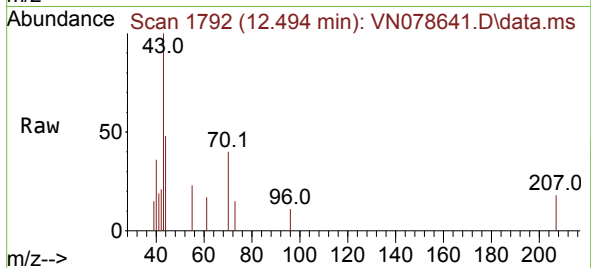
Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0725MBL01



Tgt Ion: 43 Resp: 3346

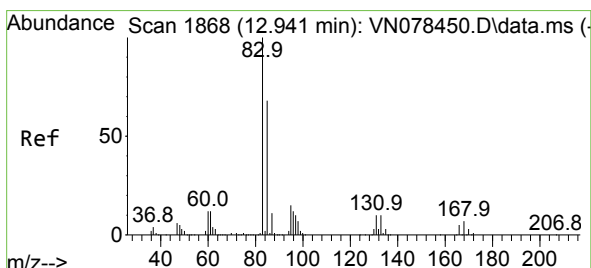
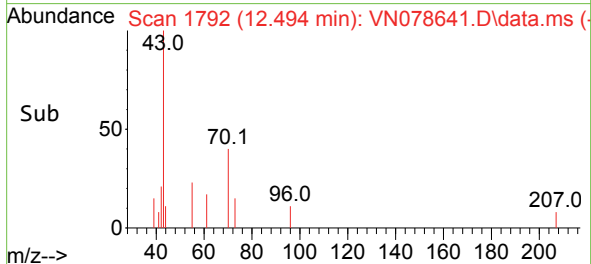
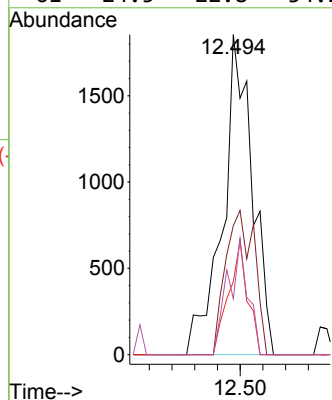
Ion Ratio Lower Upper

43 100

70 43.4 43.4 65.2#

55 22.7 21.4 32.0

61 24.5 22.8 34.2



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

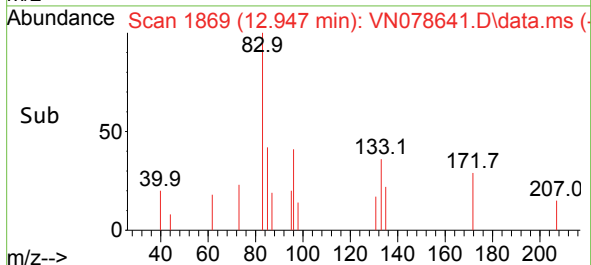
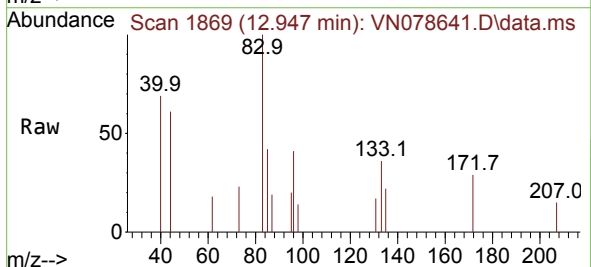
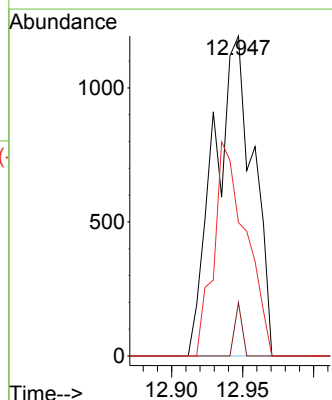
Tgt Ion: 83 Resp: 2290

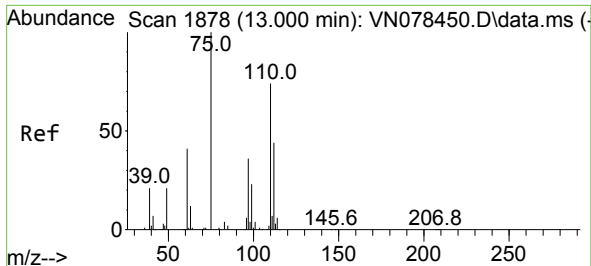
Ion Ratio Lower Upper

83 100

131 3.1 5.0 15.0#

85 54.7 31.9 95.7

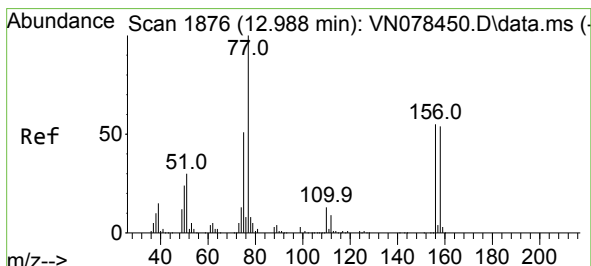
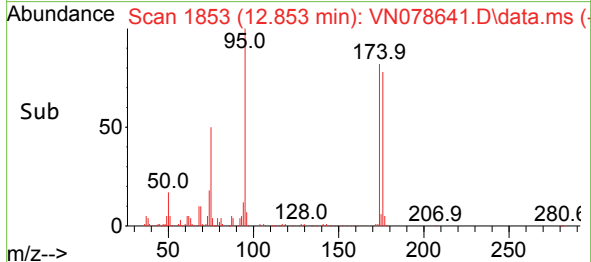
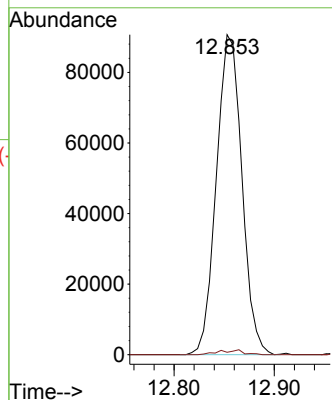
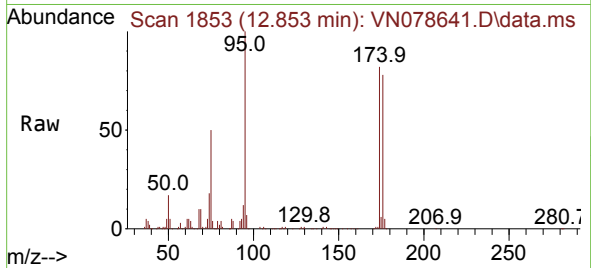




#76  
1,2,3-Trichloropropane  
Concen: 25.625 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

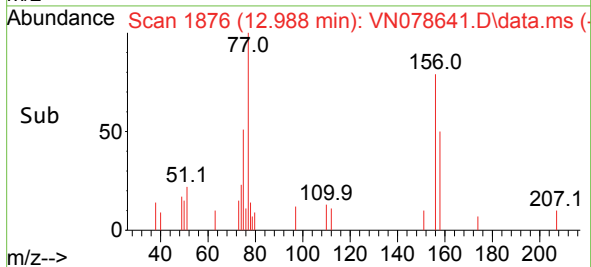
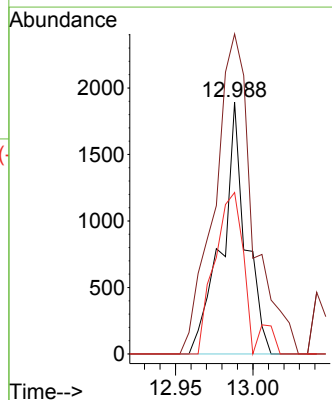
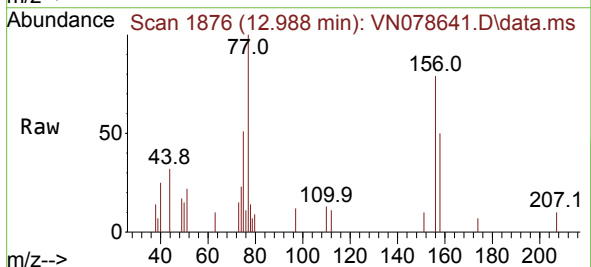
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

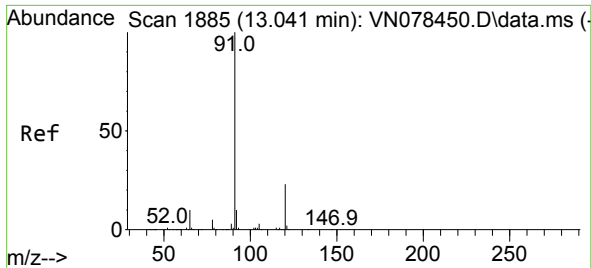
Tgt Ion: 75 Resp: 160258  
Ion Ratio Lower Upper  
75 100  
77 1.4 84.5 253.5#



#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.988 min Scan# 1876  
Delta R.T. 0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion:156 Resp: 2041  
Ion Ratio Lower Upper  
156 100  
77 204.0 107.7 323.3  
158 82.6 48.4 145.3

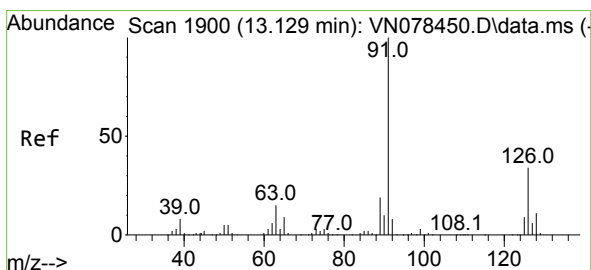
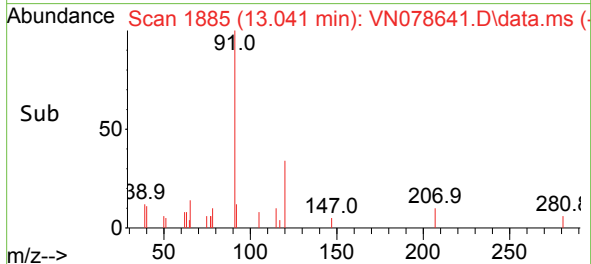
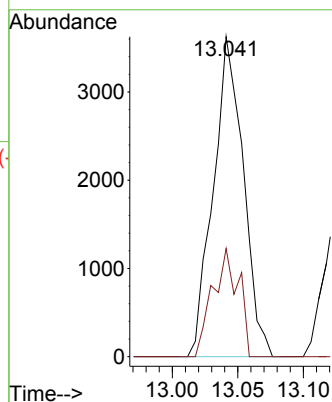
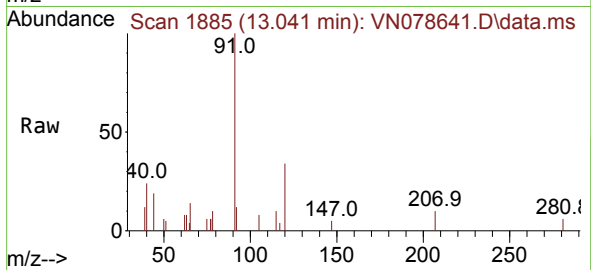




#78  
n-propylbenzene  
Concen: 0.222 ug/l  
RT: 13.041 min Scan# 1885  
Delta R.T. 0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

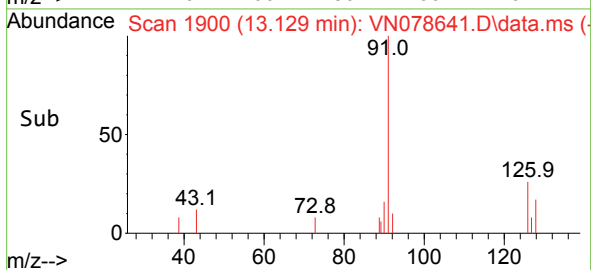
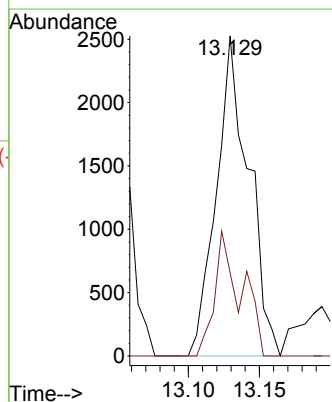
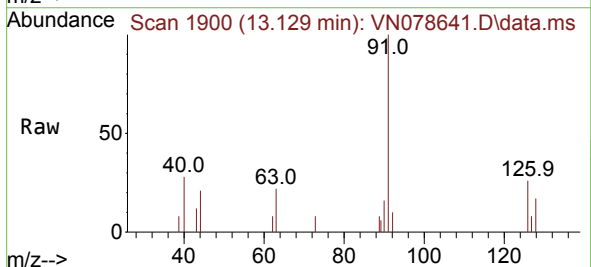
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

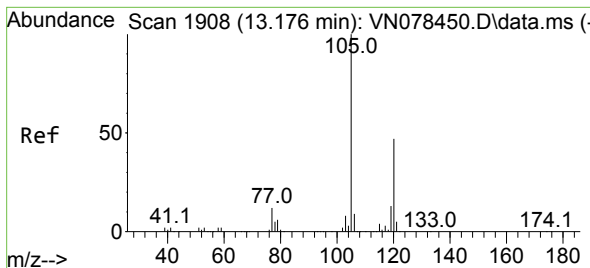
Tgt Ion: 91 Resp: 5770  
Ion Ratio Lower Upper  
91 100  
120 29.1 11.5 34.4



#79  
2-Chlorotoluene  
Concen: 0.235 ug/l  
RT: 13.129 min Scan# 1900  
Delta R.T. 0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 91 Resp: 4002  
Ion Ratio Lower Upper  
91 100  
126 31.8 16.3 48.8





#80

1,3,5-Trimethylbenzene

Concen: 0.258 ug/l

RT: 13.182 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

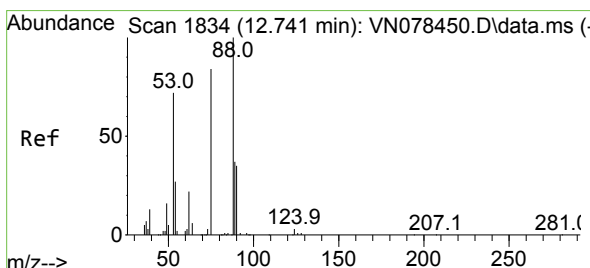
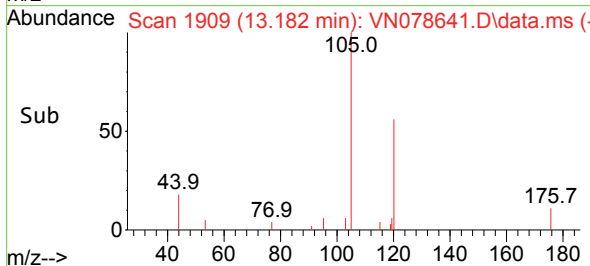
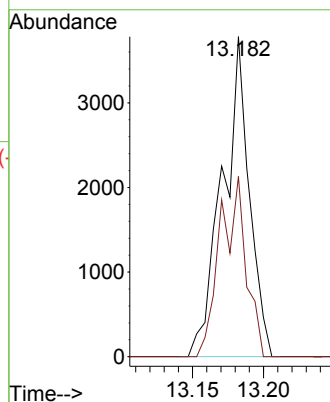
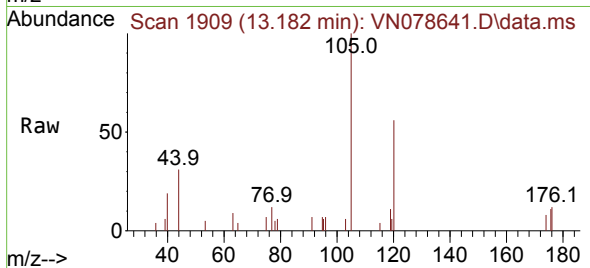
VN0725MBL01

Tgt Ion:105 Resp: 4957

Ion Ratio Lower Upper

105 100

120 54.3 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 67.338 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

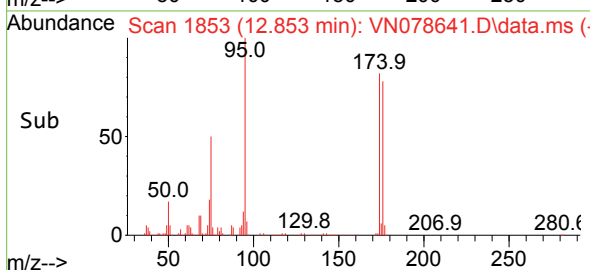
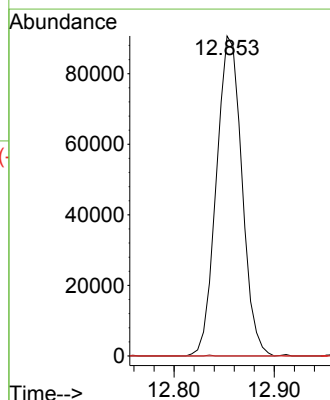
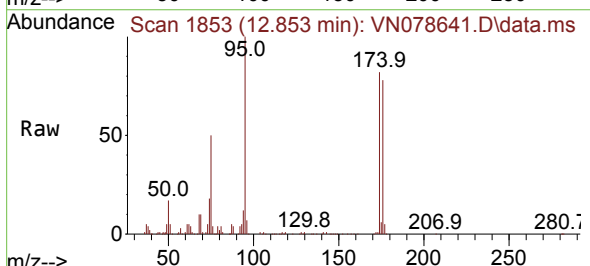
Tgt Ion: 75 Resp: 160258

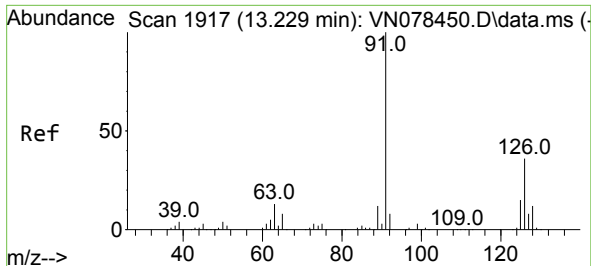
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#

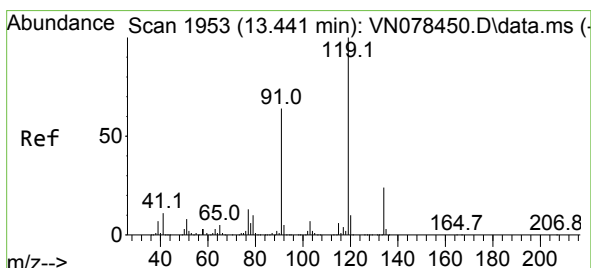
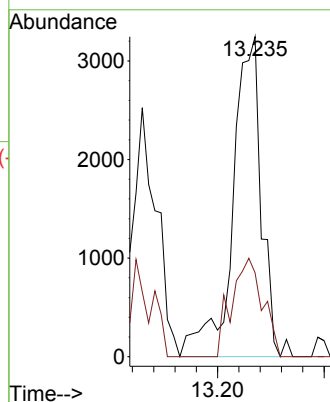
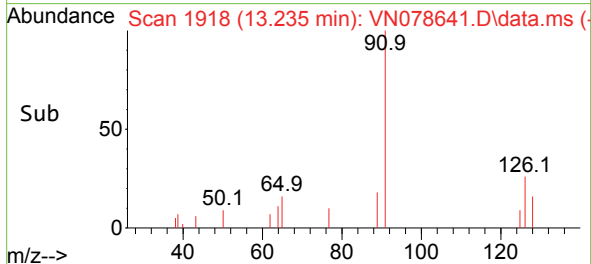
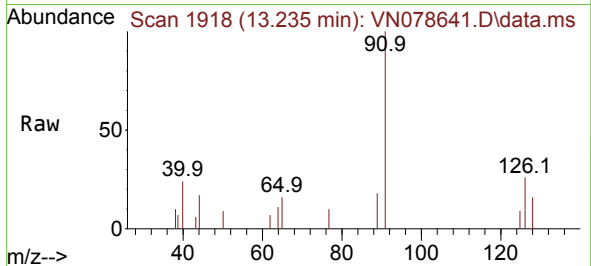




#82  
4-Chlorotoluene  
Concen: 0.378 ug/l  
RT: 13.235 min Scan# 1917  
Delta R.T. 0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

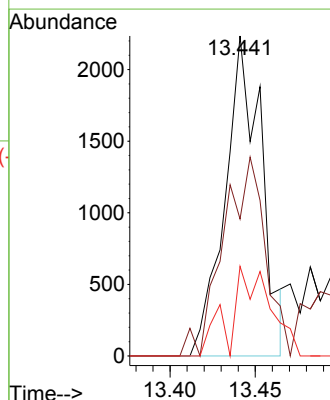
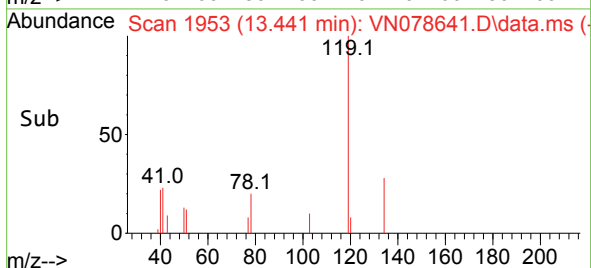
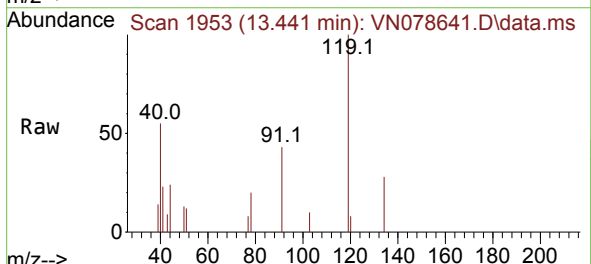
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

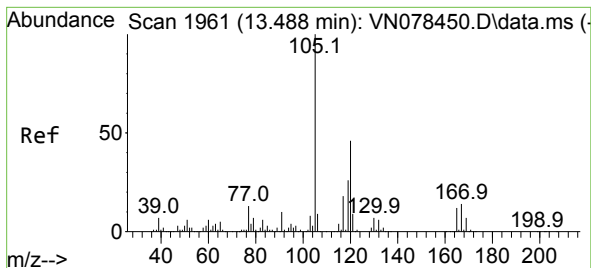
Tgt Ion: 91 Resp: 6013  
Ion Ratio Lower Upper  
91 100  
126 33.8 16.7 50.0



#83  
tert-Butylbenzene  
Concen: 0.204 ug/l  
RT: 13.441 min Scan# 1953  
Delta R.T. 0.000 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 119 Resp: 3321  
Ion Ratio Lower Upper  
119 100  
91 71.7 33.9 101.7  
134 31.2 13.2 39.6





#84

1,2,4-Trimethylbenzene

Concen: 0.323 ug/l

RT: 13.494 min Scan# 1961

Delta R.T. 0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

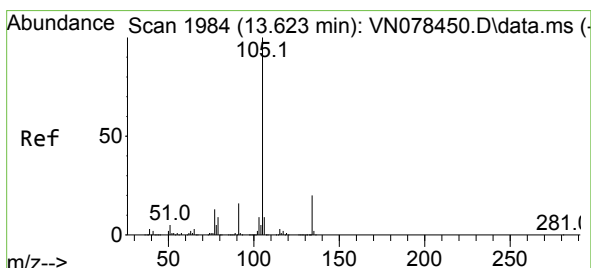
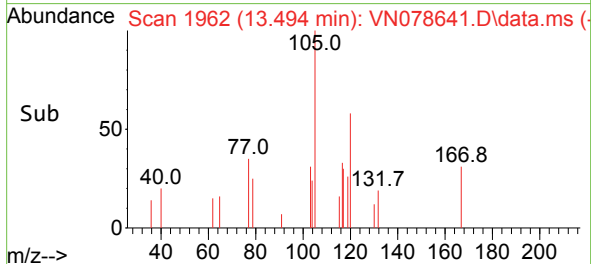
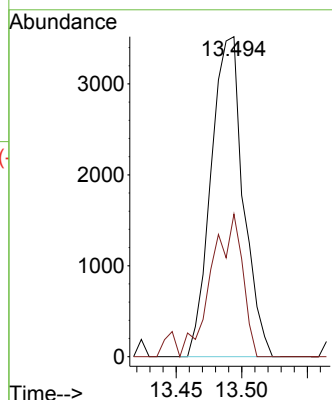
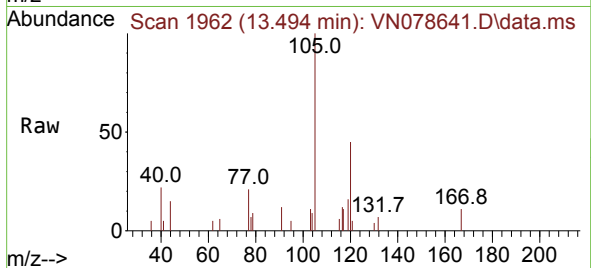
VN0725MBL01

Tgt Ion:105 Resp: 6031

Ion Ratio Lower Upper

105 100

120 42.4 22.0 66.0



#85

sec-Butylbenzene

Concen: 0.392 ug/l

RT: 13.623 min Scan# 1984

Delta R.T. 0.000 min

Lab File: VN078641.D

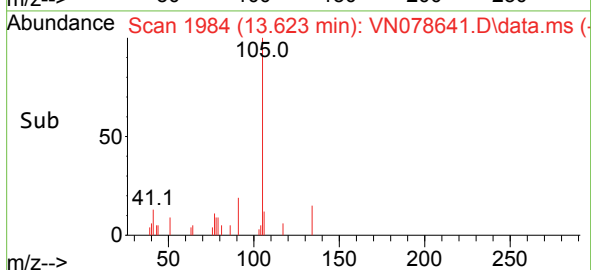
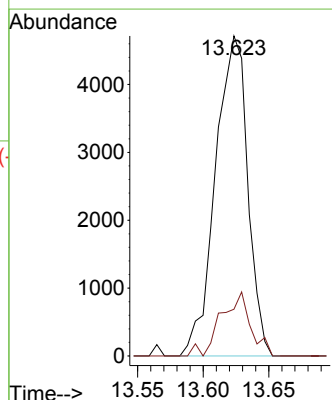
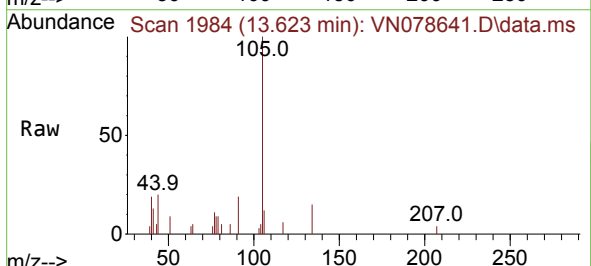
Acq: 25 Jul 2023 11:55

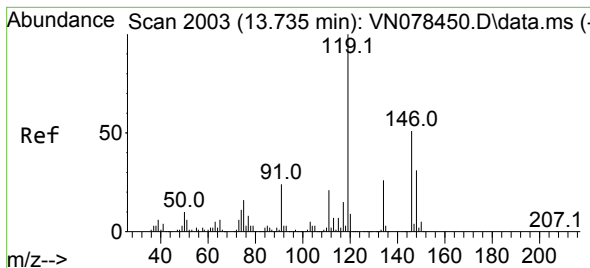
Tgt Ion:105 Resp: 8080

Ion Ratio Lower Upper

105 100

134 18.3 9.8 29.3





#86

p-Isopropyltoluene

Concen: 0.390 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. 0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0725MBL01

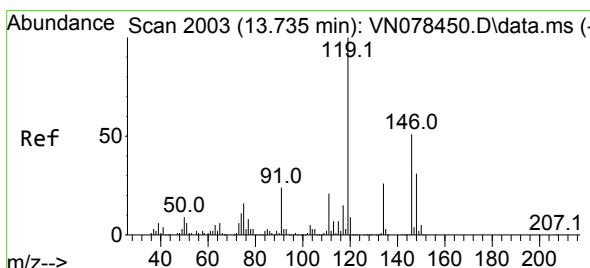
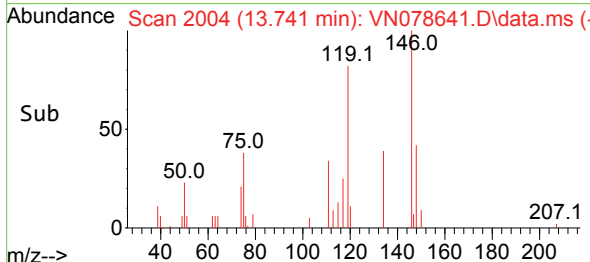
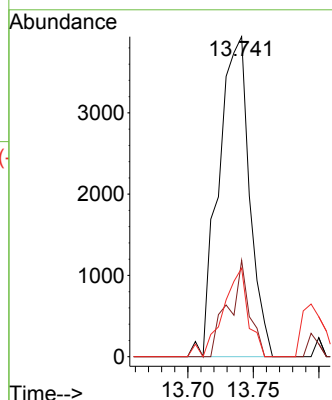
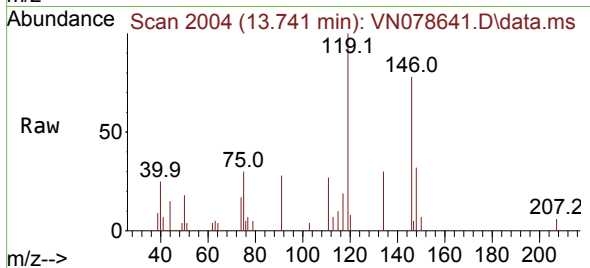
Tgt Ion:119 Resp: 6460

Ion Ratio Lower Upper

119 100

134 20.2 12.6 37.8

91 22.7 12.4 37.2



#87

1,3-Dichlorobenzene

Concen: 0.557 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

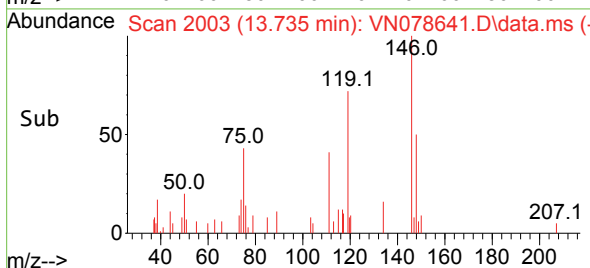
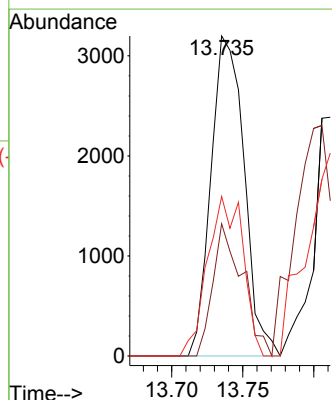
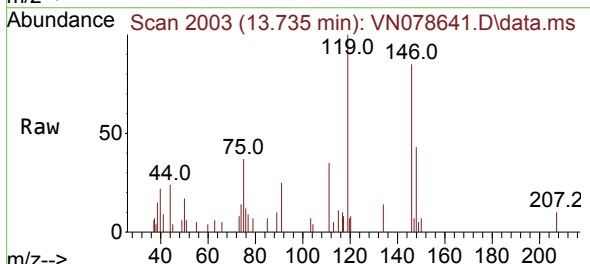
Tgt Ion:146 Resp: 5200

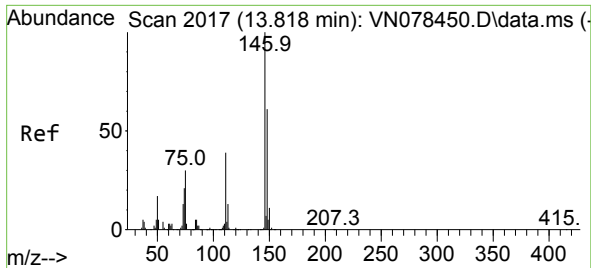
Ion Ratio Lower Upper

146 100

111 36.9 22.1 66.3

148 53.2 32.0 96.0

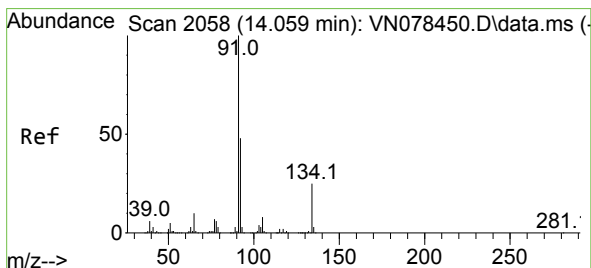
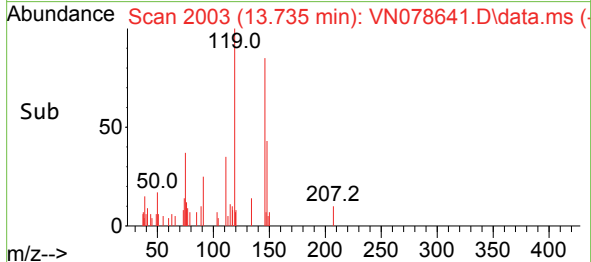
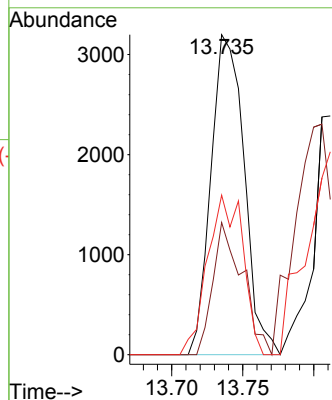
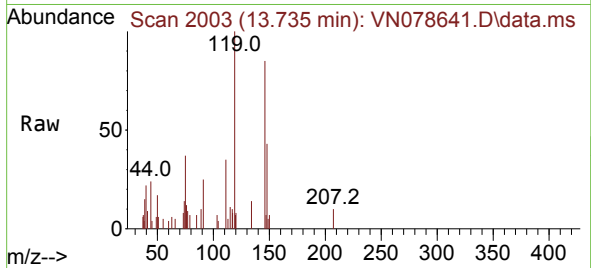




#88  
1,4-Dichlorobenzene  
Concen: 0.553 ug/l  
RT: 13.735 min Scan# 2017  
Delta R.T. -0.083 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

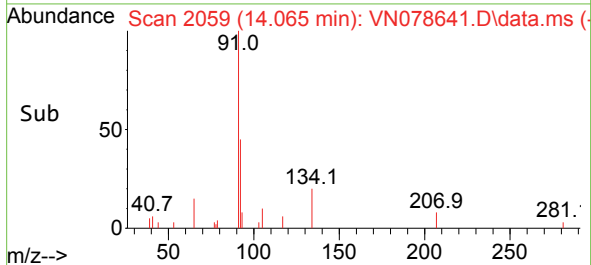
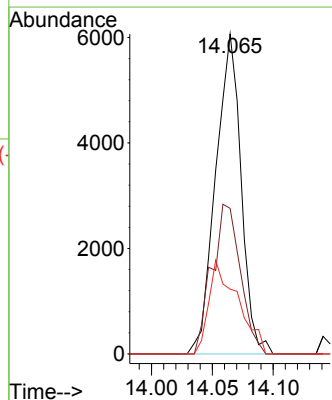
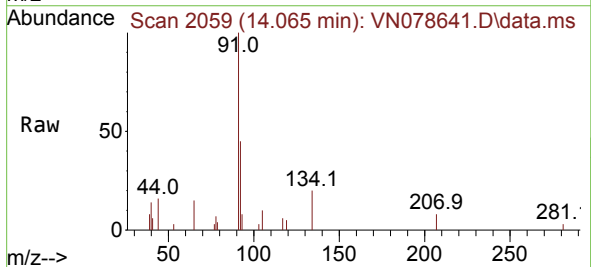
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0725MBL01

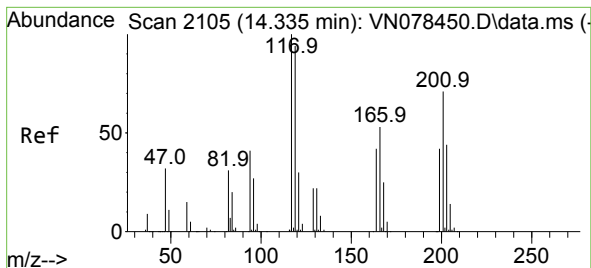
Tgt Ion:146 Resp: 5200  
Ion Ratio Lower Upper  
146 100  
111 36.9 20.6 61.8  
148 53.2 31.6 94.8



#89  
n-Butylbenzene  
Concen: 0.743 ug/l  
RT: 14.065 min Scan# 2059  
Delta R.T. 0.006 min  
Lab File: VN078641.D  
Acq: 25 Jul 2023 11:55

Tgt Ion: 91 Resp: 8800  
Ion Ratio Lower Upper  
91 100  
92 52.5 26.4 79.0  
134 33.4 12.6 37.6





#90

Hexachloroethane

Concen: Below Cal

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

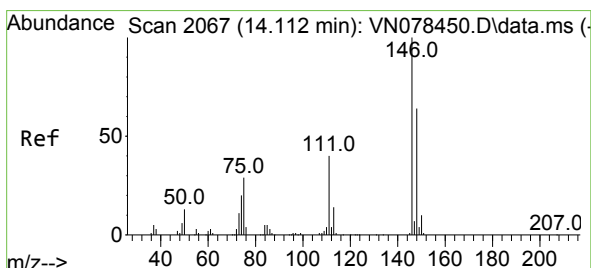
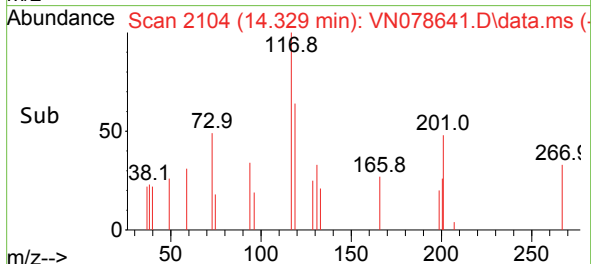
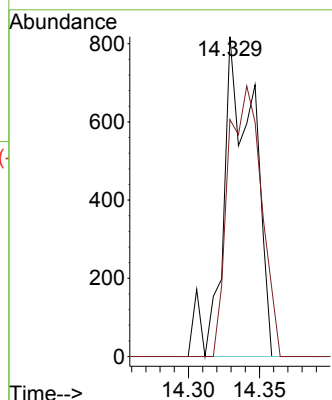
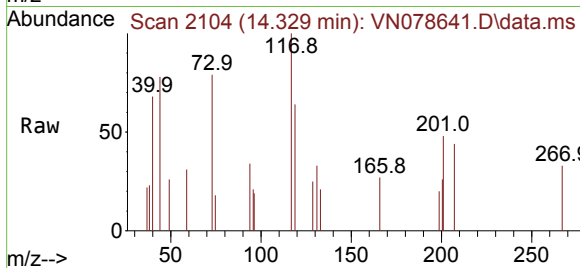
VN0725MBL01

Tgt Ion:117 Resp: 1226

Ion Ratio Lower Upper

117 100

201 91.3 29.3 88.0#



#91

1,2-Dichlorobenzene

Concen: 0.440 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

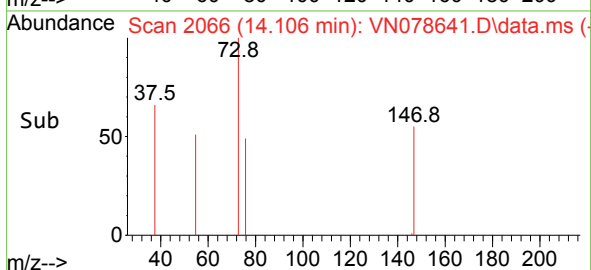
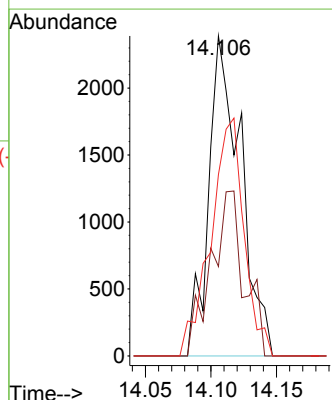
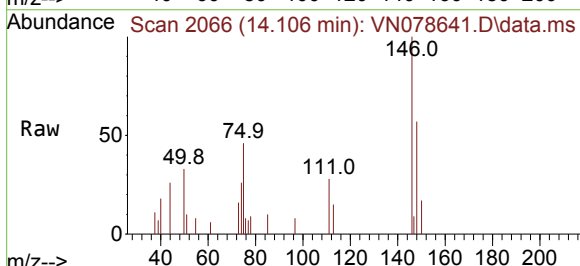
Tgt Ion:146 Resp: 4083

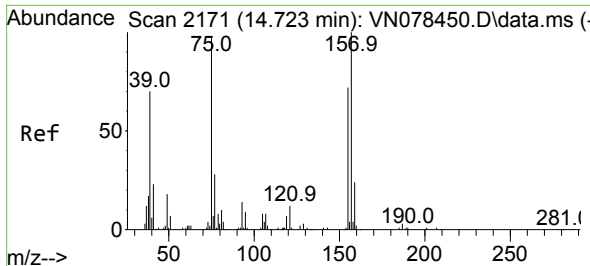
Ion Ratio Lower Upper

146 100

111 52.7 22.0 66.0

148 76.6 31.8 95.3





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.717 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN078641.D

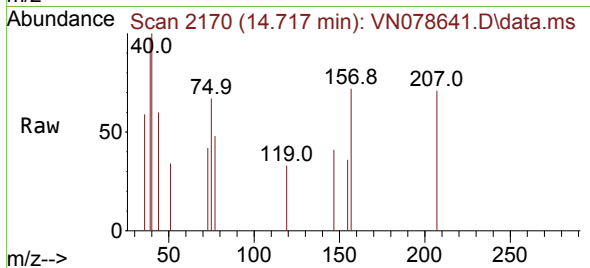
Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0725MBL01



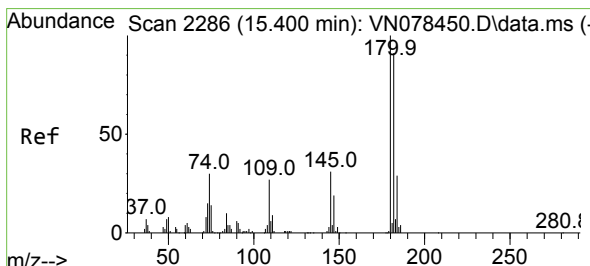
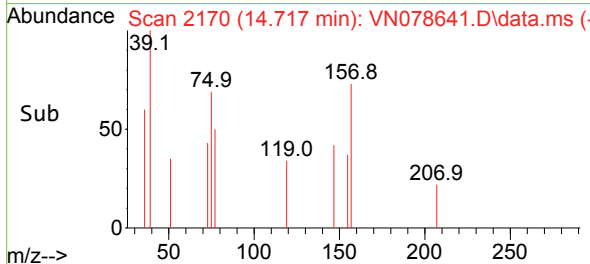
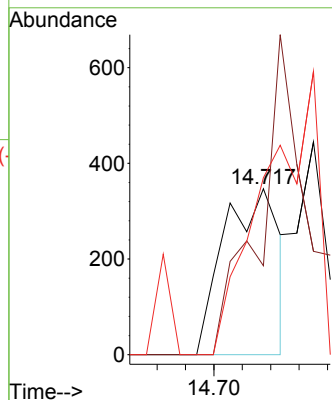
Tgt Ion: 75 Resp: 472

Ion Ratio Lower Upper

75 100

155 157.8 39.1 117.2#

157 161.2 50.3 150.9#



#93

1,2,4-Trichlorobenzene

Concen: 1.500 ug/l

RT: 15.406 min Scan# 2287

Delta R.T. 0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

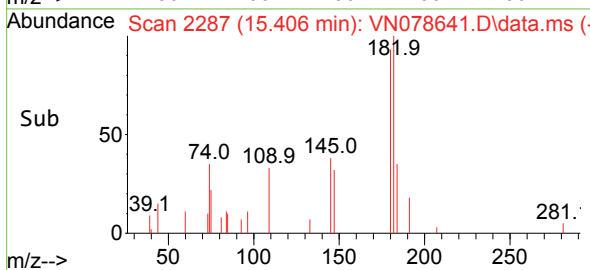
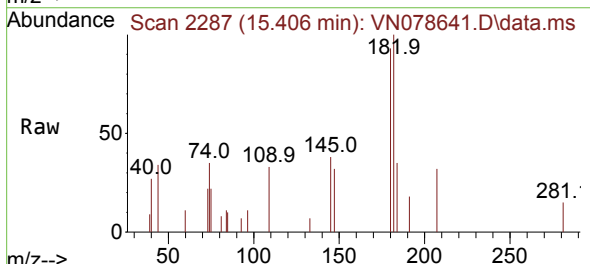
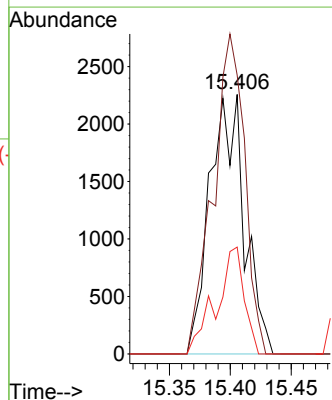
Tgt Ion:180 Resp: 4448

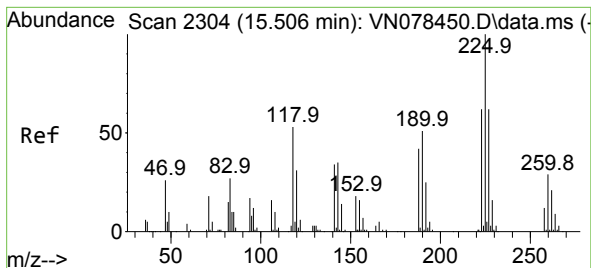
Ion Ratio Lower Upper

180 100

182 112.9 46.1 138.2

145 33.2 16.6 49.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.506 min Scan# 2304

Delta R.T. -0.000 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

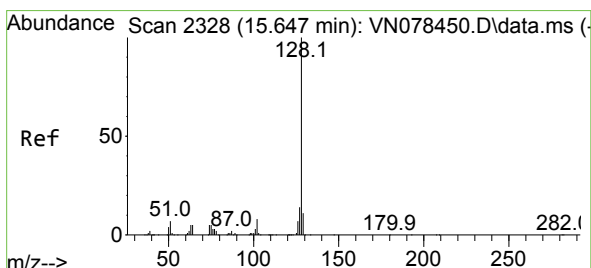
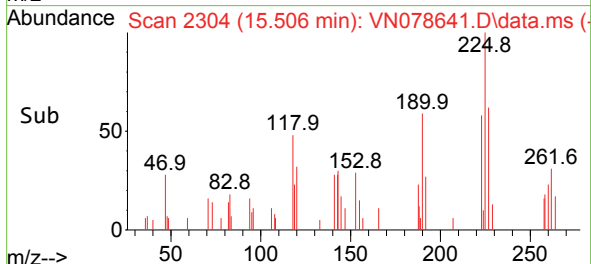
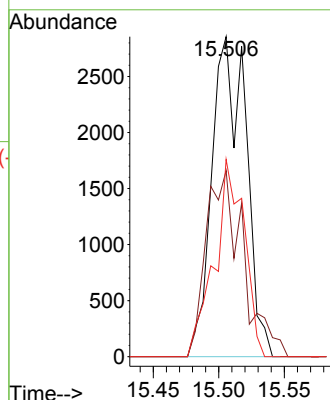
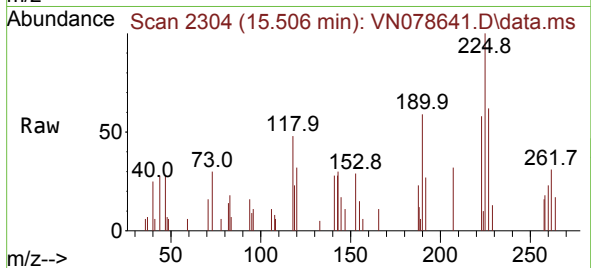
Instrument :

MSVOA\_N

ClientSampleId :

VN0725MBL01

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 5141 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 63.3  | 31.3  | 93.8 |
| 227       | 53.6  | 31.9  | 95.9 |



#95

Naphthalene

Concen: 1.578 ug/l

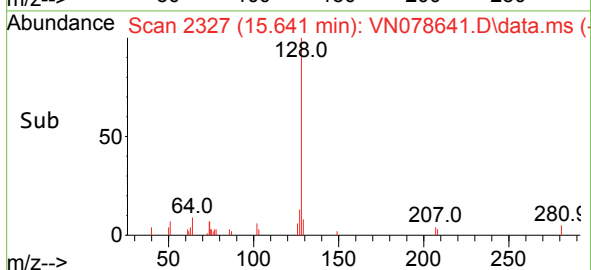
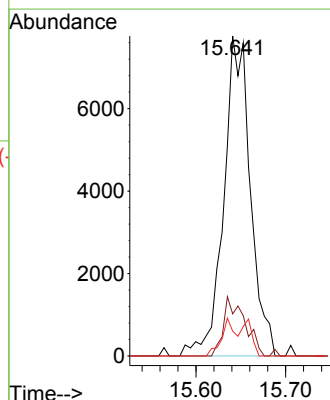
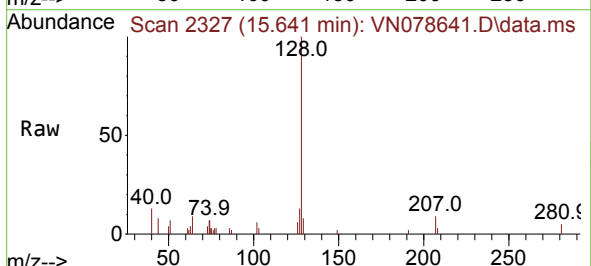
RT: 15.641 min Scan# 2327

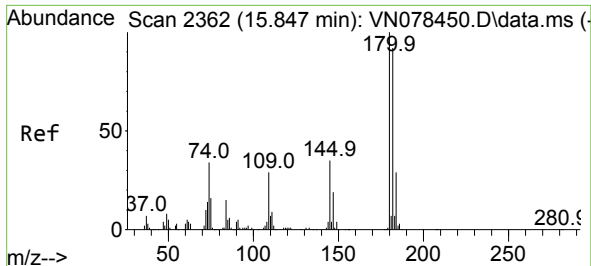
Delta R.T. -0.006 min

Lab File: VN078641.D

Acq: 25 Jul 2023 11:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 15995 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 14.7  | 10.0  | 15.0  |
| 129       | 6.1   | 8.7   | 13.1  |





#96

1,2,3-Trichlorobenzene

Concen: 1.829 ug/l

RT: 15.847 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078641.D

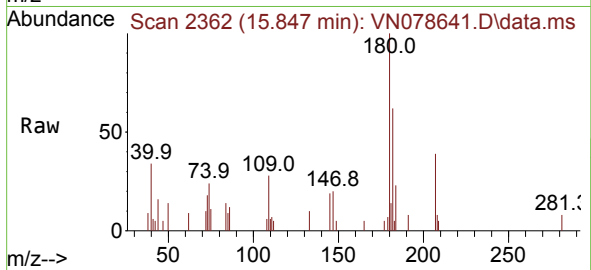
Acq: 25 Jul 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0725MBL01



Tgt Ion:180 Resp: 6234

Ion Ratio Lower Upper

180 100

182 93.6 46.2 138.6

145 31.4 17.5 52.6

