

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041624\  
 Data File : VN081762.D  
 Acq On : 16 Apr 2024 16:27  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 17 03:27:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041524W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 15 15:37:39 2024  
 Response via : Initial Calibration

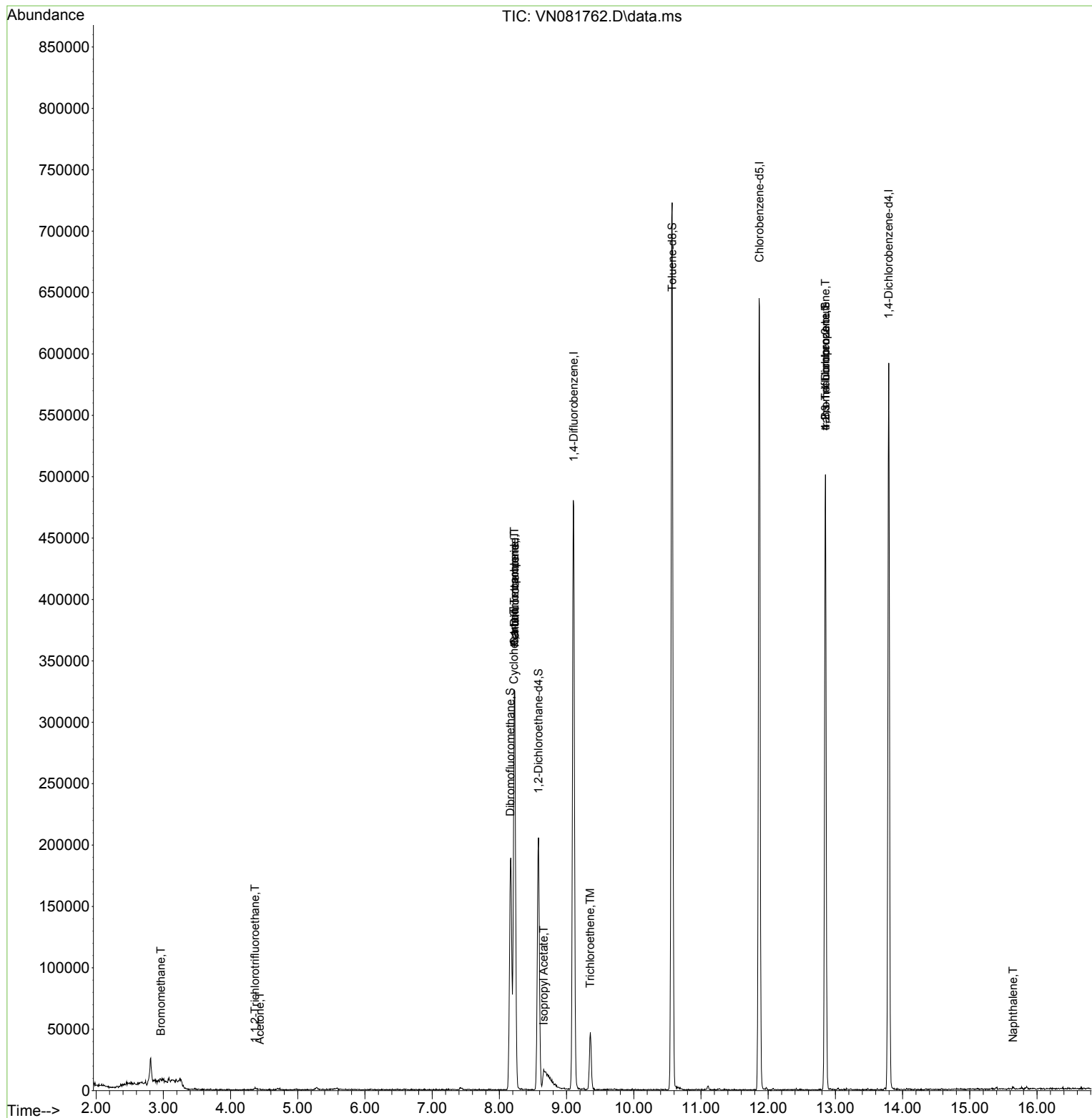
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 234608   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 423650   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 369525   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 154204   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 165723   | 50.199    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 100.400% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 133438   | 47.698    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 95.400%  |          |
| 50) Toluene-d8                | 10.571 | 98    | 503844   | 48.888    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 97.780%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 168112   | 47.734    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery  | = 95.460%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.365  | 50    | 854      | Below Cal | #          | 43       |
| 5) Bromomethane               | 2.965  | 94    | 944      | 0.430     | ug/l #     | 70       |
| 6) Chloroethane               | 3.118  | 64    | 110      | Below Cal | #          | 44       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.365  | 101   | 1065     | 0.362     | ug/l #     | 58       |
| 16) Acetone                   | 4.436  | 43    | 967      | 1.052     | ug/l #     | 43       |
| 20) Methylene Chloride        | 5.271  | 84    | 1105     | Below Cal | #          | 59       |
| 31) Cyclohexane               | 8.218  | 56    | 5706     | 1.260     | ug/l #     | 16       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 19880    | 5.100     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 26162    | 5.769     | ug/l #     | 17       |
| 43) Isopropyl Acetate         | 8.659  | 43    | 17962    | 3.006     | ug/l #     | 54       |
| 44) Trichloroethene           | 9.353  | 130   | 15753    | 4.989     | ug/l       | 77       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 89581    | 30.456    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 89581    | 71.081    | ug/l #     | 13       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.629 | 75    | 57       | Below Cal | #          | 2        |
| 95) Naphthalene               | 15.647 | 128   | 1820     | 0.203     | ug/l #     | 78       |
| -----                         |        |       |          |           |            |          |

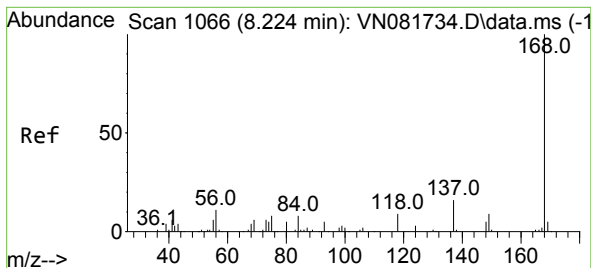
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041624\  
Data File : VN081762.D  
Acq On : 16 Apr 2024 16:27  
Operator : JC\MD  
Sample : IBLK  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Apr 17 03:27:48 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041524W.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 15 15:37:39 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

Instrument :

MSVOA\_N

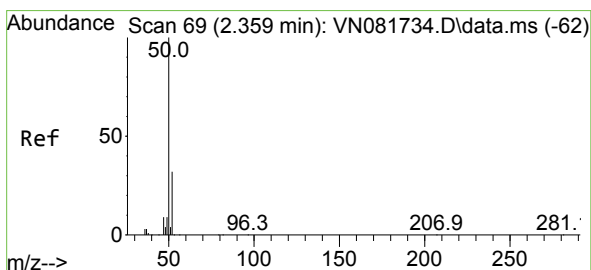
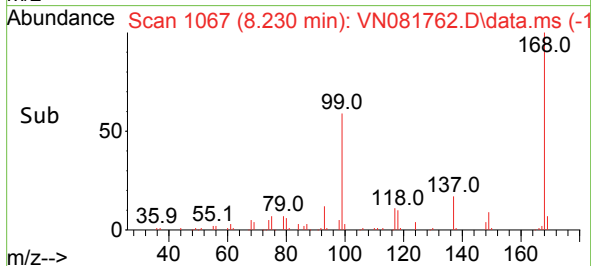
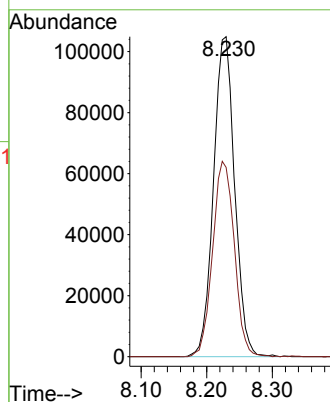
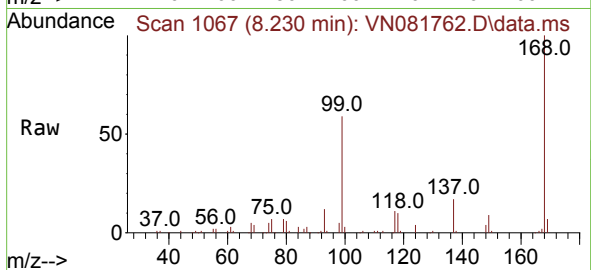
ClientSampleId :

Tgt Ion:168 Resp: 234608

Ion Ratio Lower Upper

168 100

99 59.2 48.2 72.4



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN081762.D

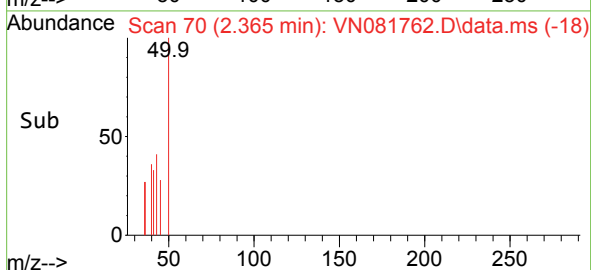
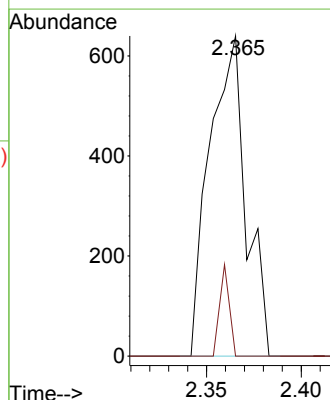
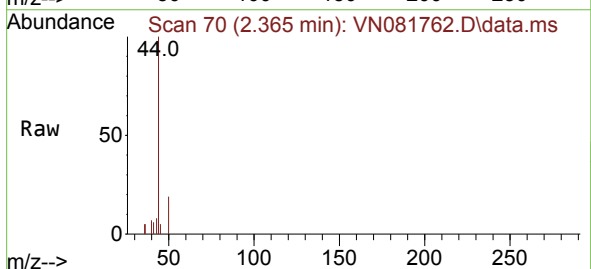
Acq: 16 Apr 2024 16:27

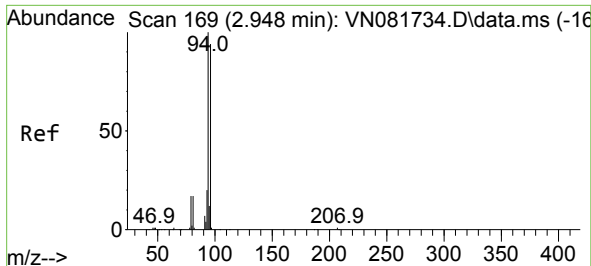
Tgt Ion: 50 Resp: 854

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#

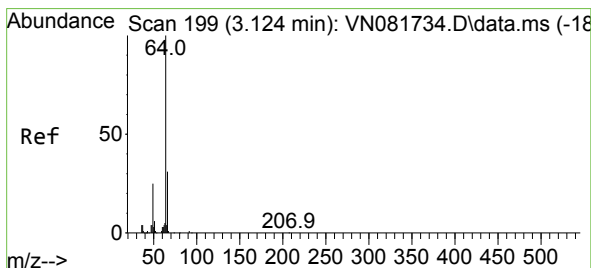
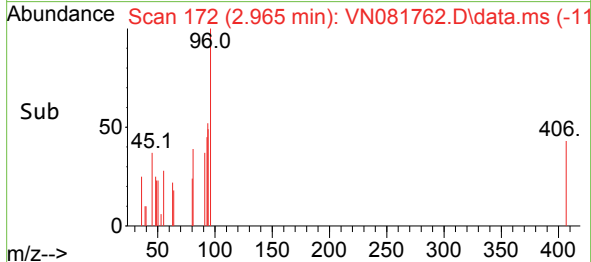
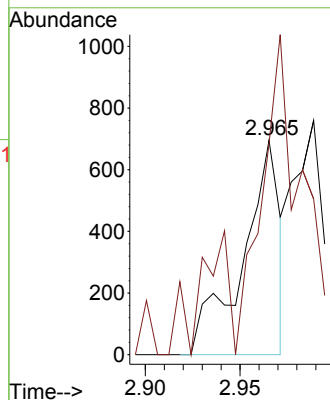
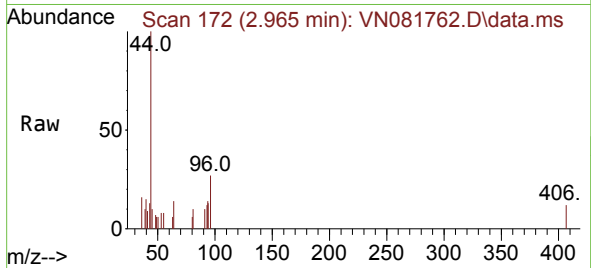




#5  
Bromomethane  
Concen: 0.430 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. 0.017 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

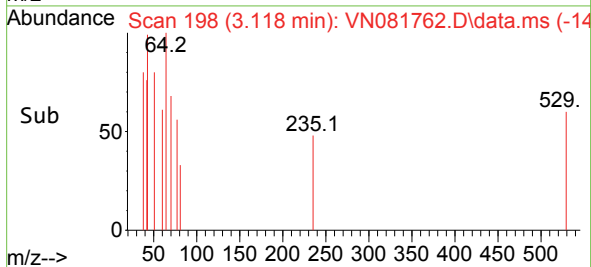
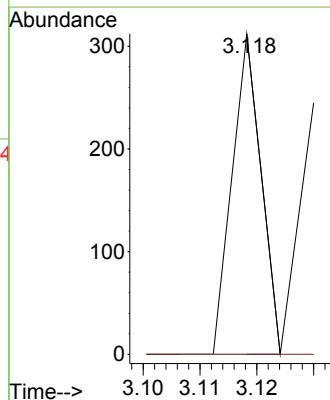
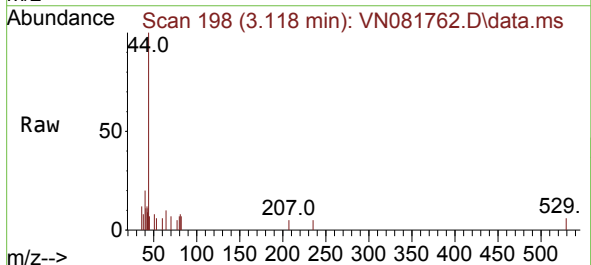
Instrument :  
MSVOA\_N  
ClientSampleId :

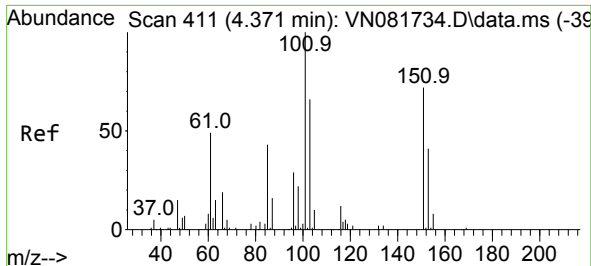
Tgt Ion: 94 Resp: 944  
Ion Ratio Lower Upper  
94 100  
96 64.3 74.8 112.2#



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.118 min Scan# 198  
Delta R.T. -0.006 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

Tgt Ion: 64 Resp: 110  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.7 37.1#

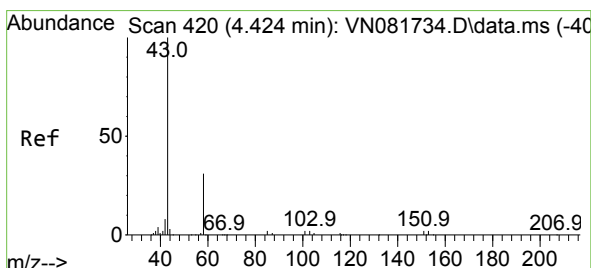
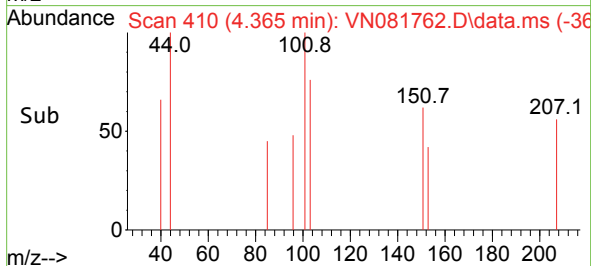
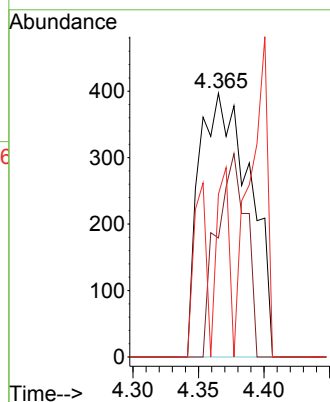
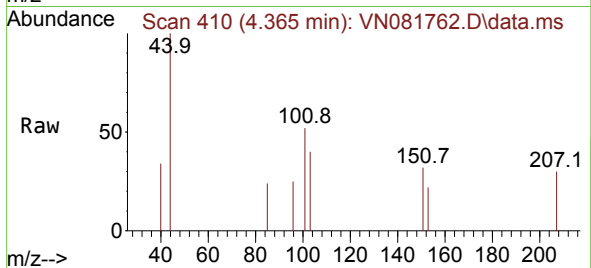




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.362 ug/l  
RT: 4.365 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

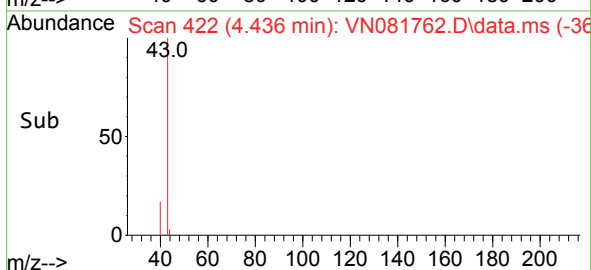
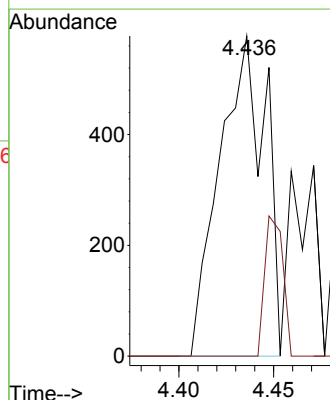
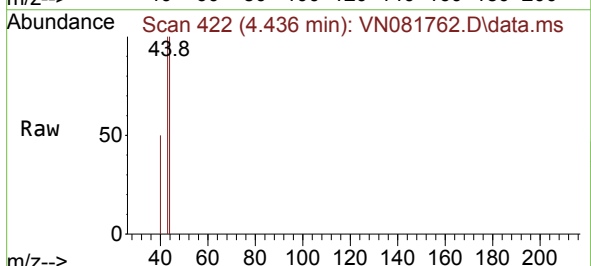
Instrument :  
MSVOA\_N  
ClientSampleId :

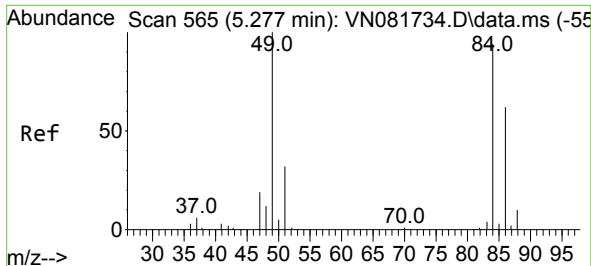
Tgt Ion:101 Resp: 1065  
Ion Ratio Lower Upper  
101 100  
85 45.1 37.3 55.9  
151 17.6 59.2 88.8#



#16  
Acetone  
Concen: 1.052 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.012 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

Tgt Ion: 43 Resp: 967  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.2 37.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.271 min Scan# 5

Delta R.T. -0.006 min

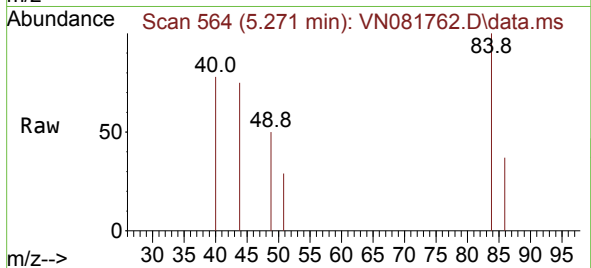
Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion: 84 Resp: 1105

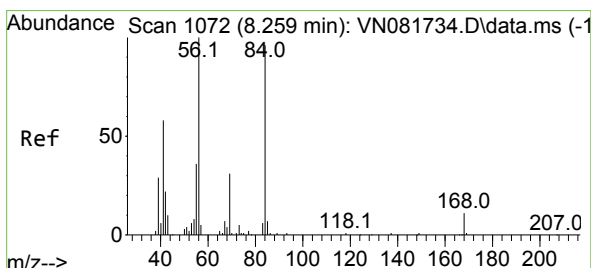
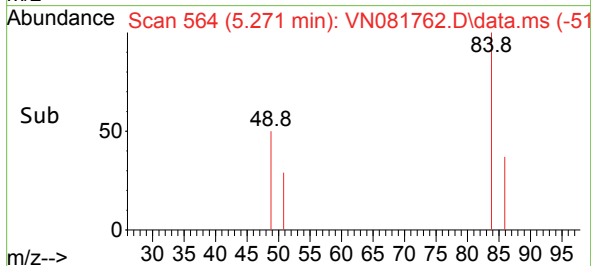
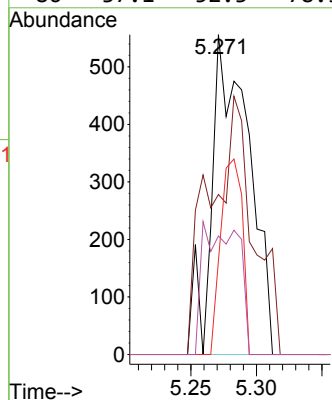
Ion Ratio Lower Upper

84 100

49 50.0 84.9 127.3#

51 29.3 27.0 40.6

86 37.1 52.3 78.5#



#31

Cyclohexane

Concen: 1.260 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

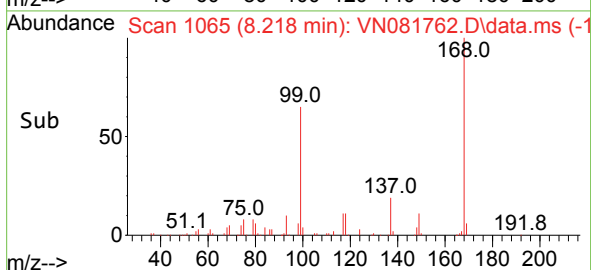
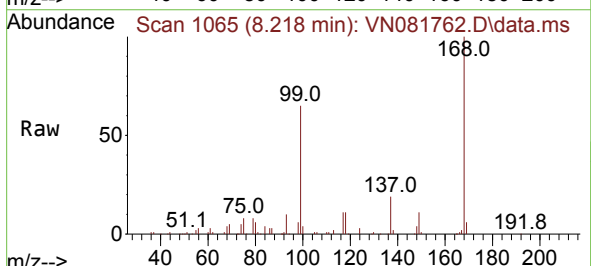
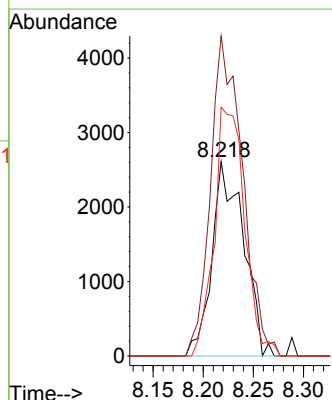
Tgt Ion: 56 Resp: 5706

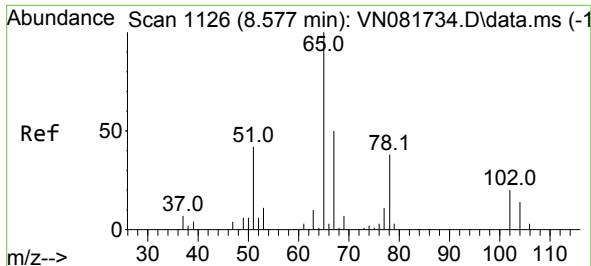
Ion Ratio Lower Upper

56 100

69 164.8 24.4 36.6#

84 128.1 77.0 115.4#





#33

1,2-Dichloroethane-d4

Concen: 50.199 ug/l

RT: 8.583 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

Instrument :

MSVOA\_N

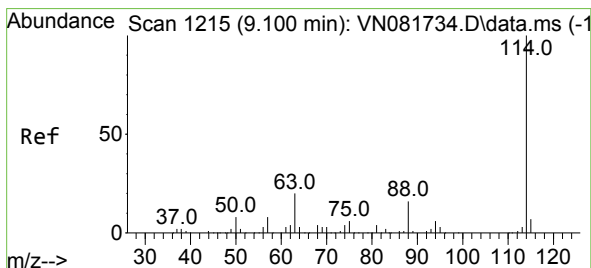
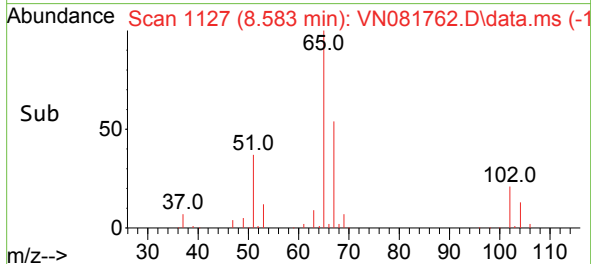
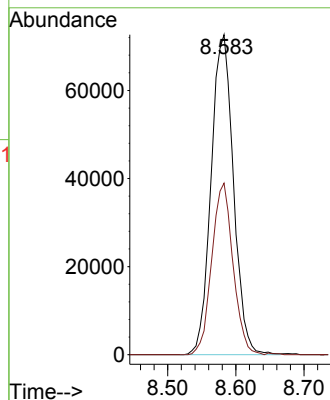
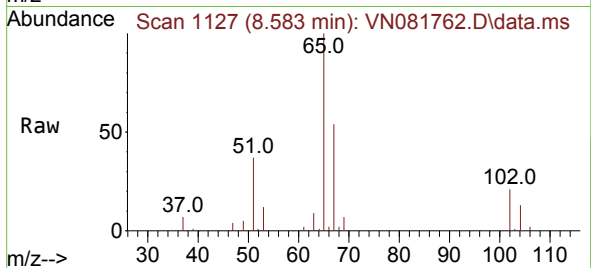
ClientSampleId :

Tgt Ion: 65 Resp: 165723

Ion Ratio Lower Upper

65 100

67 51.0 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

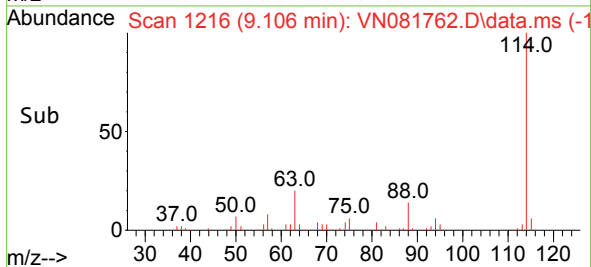
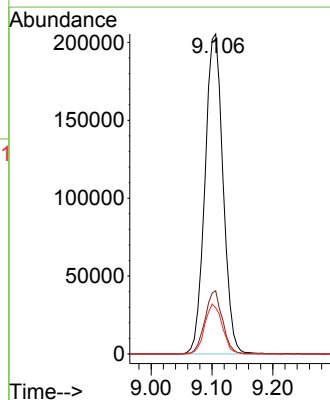
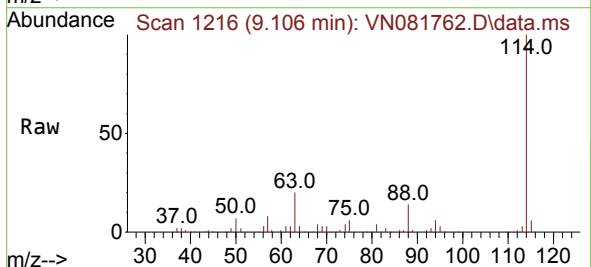
Tgt Ion: 114 Resp: 423650

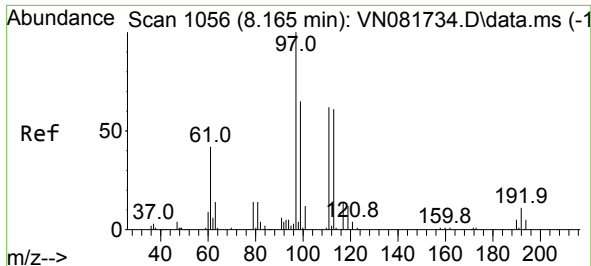
Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.0

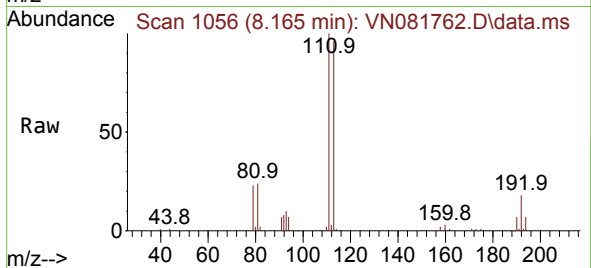
88 14.4 0.0 31.4



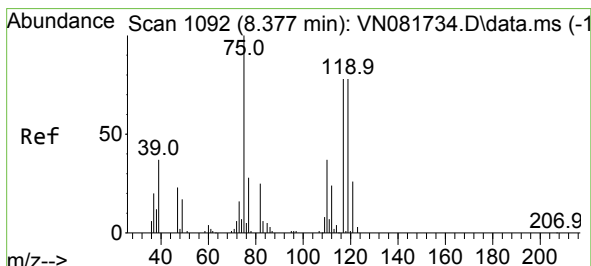
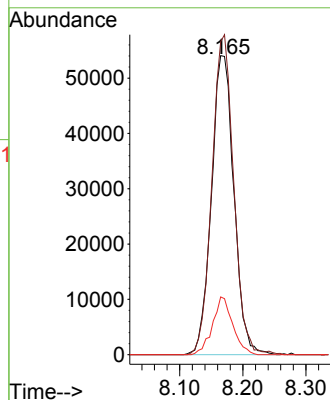
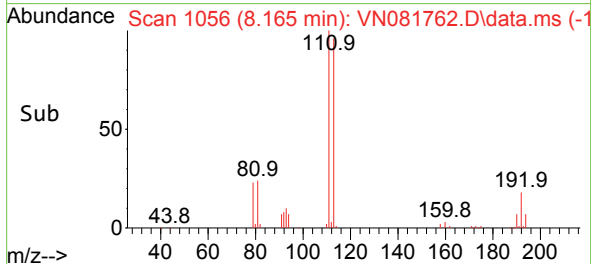


#35  
 Dibromofluoromethane  
 Concen: 47.698 ug/l  
 RT: 8.165 min Scan# 1056  
 Delta R.T. -0.000 min  
 Lab File: VN081762.D  
 Acq: 16 Apr 2024 16:27

Instrument :  
 MSVOA\_N  
 ClientSampleId :

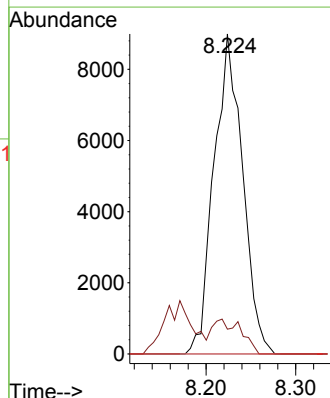
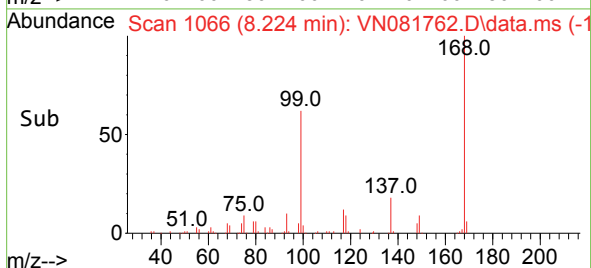
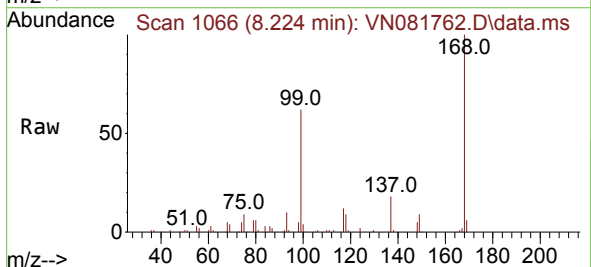


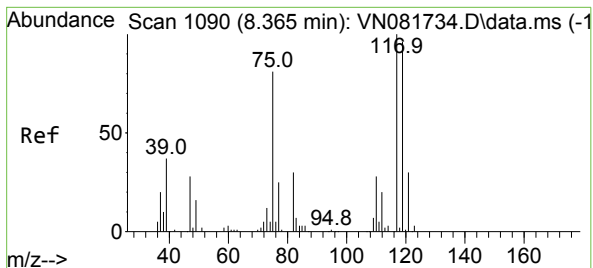
Tgt Ion:113 Resp: 133438  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 83.4 125.2  
 192 17.4 14.0 21.0



#36  
 1,1-Dichloropropene  
 Concen: 5.100 ug/l  
 RT: 8.224 min Scan# 1066  
 Delta R.T. -0.153 min  
 Lab File: VN081762.D  
 Acq: 16 Apr 2024 16:27

Tgt Ion: 75 Resp: 19880  
 Ion Ratio Lower Upper  
 75 100  
 110 10.9 17.8 53.5#  
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.769 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.141 min

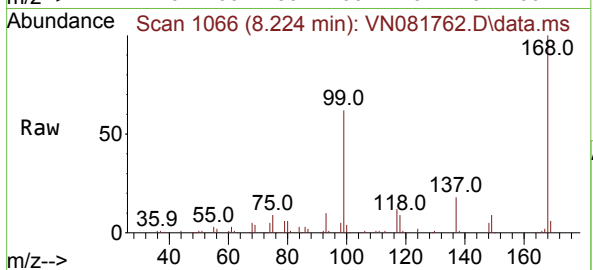
Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

Instrument :

MSVOA\_N

ClientSampleId :



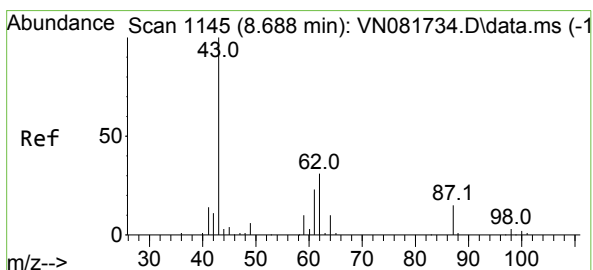
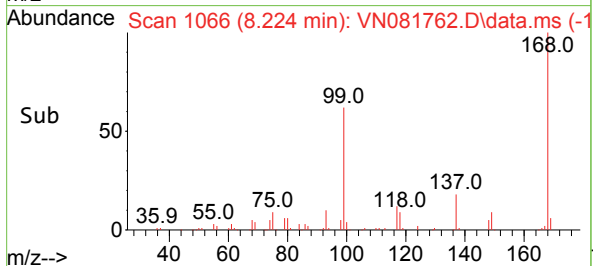
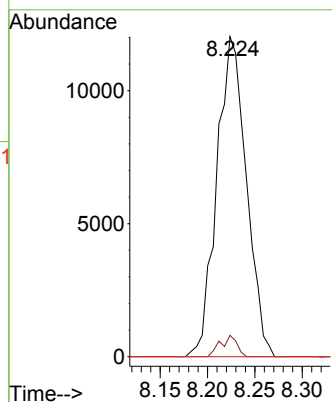
Tgt Ion:117 Resp: 26162

Ion Ratio Lower Upper

117 100

119 6.7 76.5 114.7#

121 0.0 23.9 35.9#



#43

Isopropyl Acetate

Concen: 3.006 ug/l

RT: 8.659 min Scan# 1140

Delta R.T. -0.029 min

Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

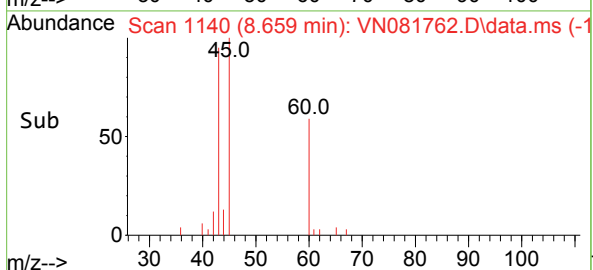
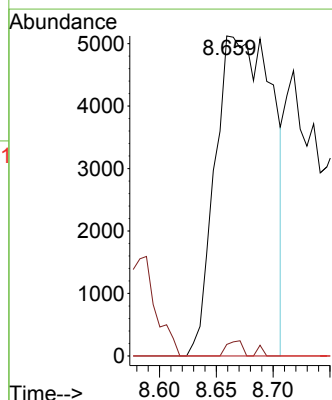
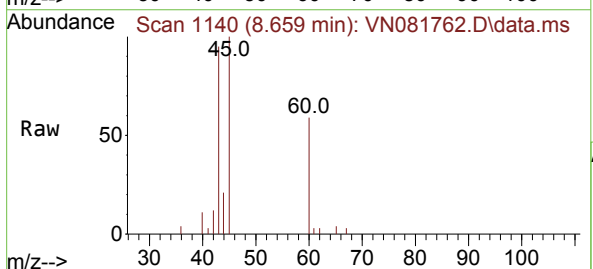
Tgt Ion: 43 Resp: 17962

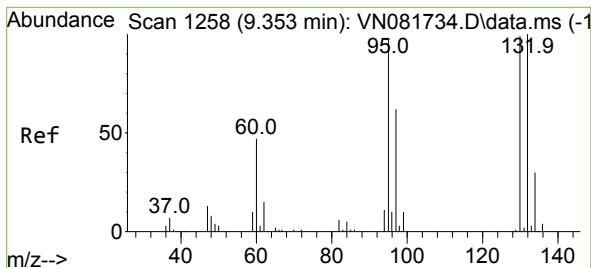
Ion Ratio Lower Upper

43 100

61 1.3 22.8 34.2#

87 0.0 12.0 18.0#





#44

Trichloroethene

Concen: 4.989 ug/l

RT: 9.353 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN081762.D

Acq: 16 Apr 2024 16:27

Instrument :

MSVOA\_N

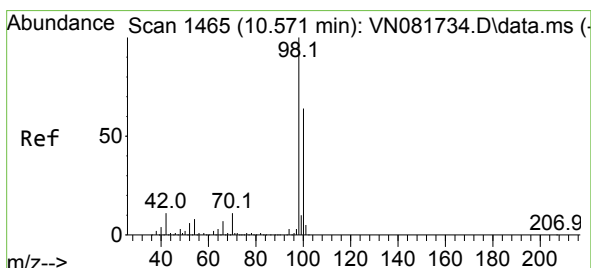
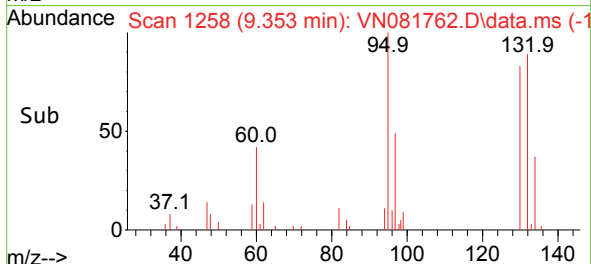
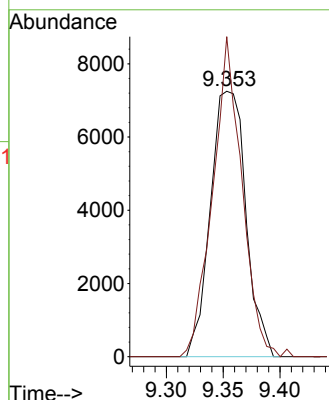
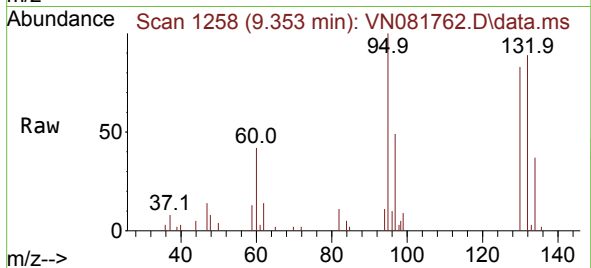
ClientSampleId :

Tgt Ion:130 Resp: 15753

Ion Ratio Lower Upper

130 100

95 120.6 0.0 195.4



#50

Toluene-d8

Concen: 48.888 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN081762.D

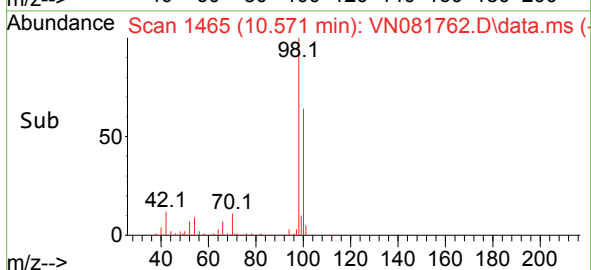
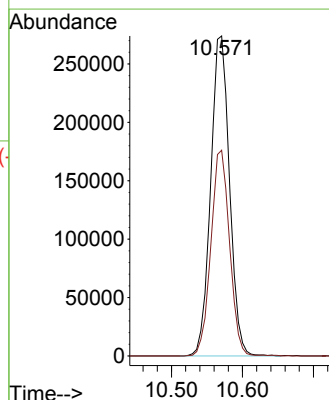
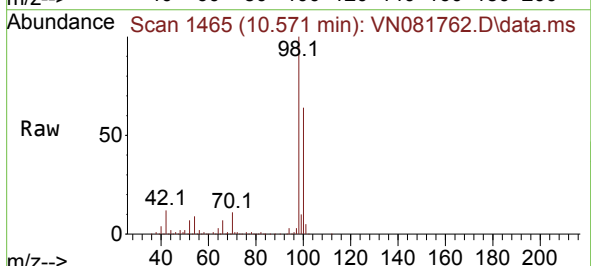
Acq: 16 Apr 2024 16:27

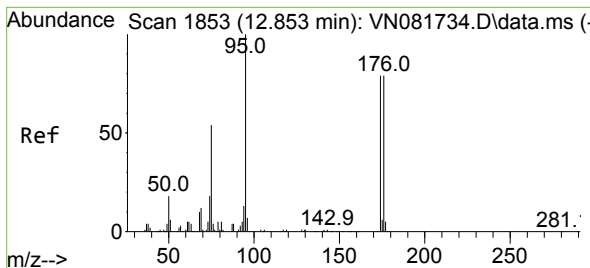
Tgt Ion: 98 Resp: 503844

Ion Ratio Lower Upper

98 100

100 63.8 51.8 77.6

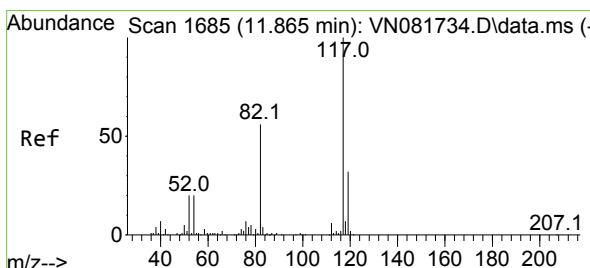
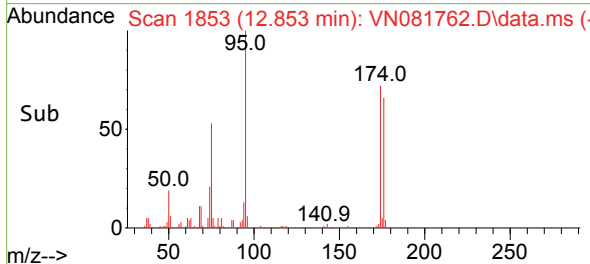
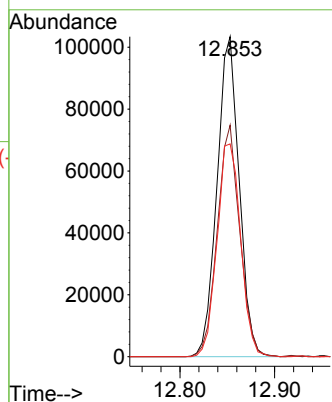
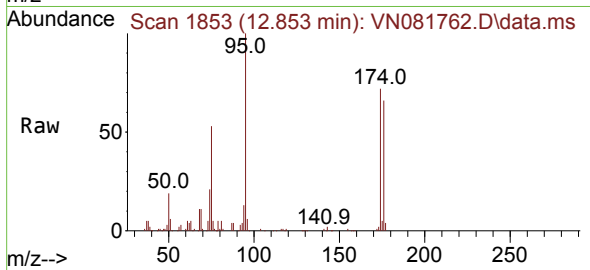




#62  
4-Bromofluorobenzene  
Concen: 47.734 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

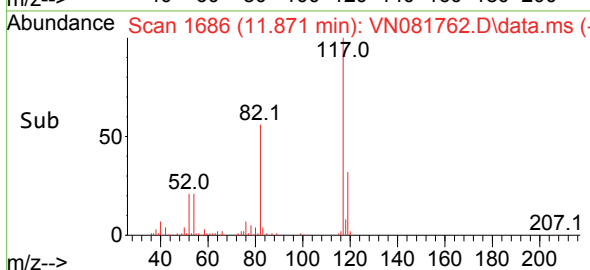
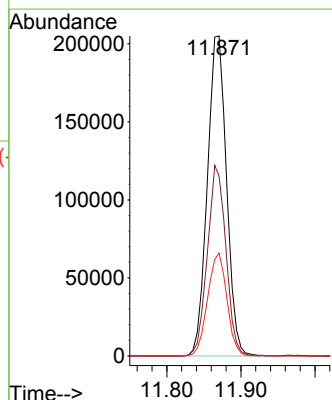
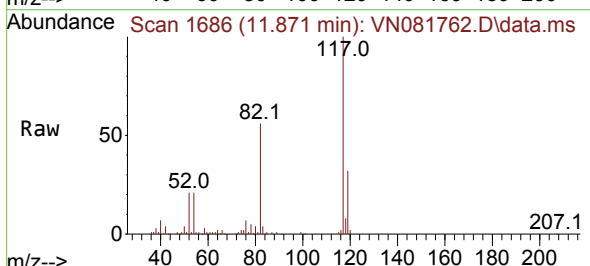
Instrument :  
MSVOA\_N  
ClientSampleId :

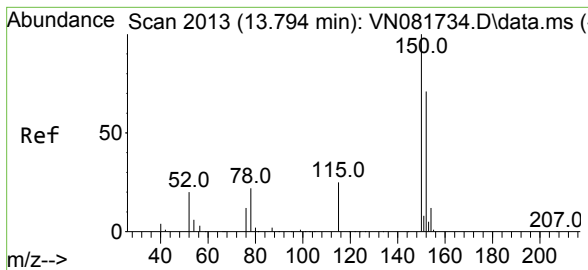
Tgt Ion: 95 Resp: 168112  
Ion Ratio Lower Upper  
95 100  
174 73.6 0.0 160.6  
176 70.8 0.0 152.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

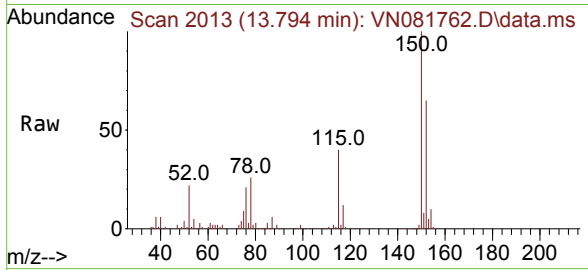
Tgt Ion: 117 Resp: 369525  
Ion Ratio Lower Upper  
117 100  
82 56.1 44.6 66.8  
119 32.2 25.9 38.9



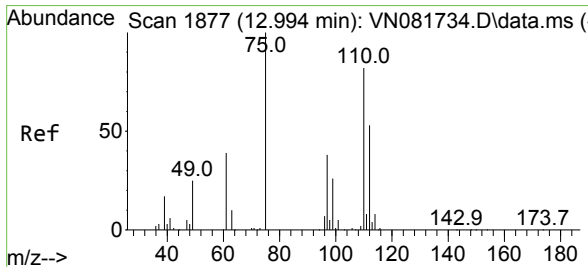
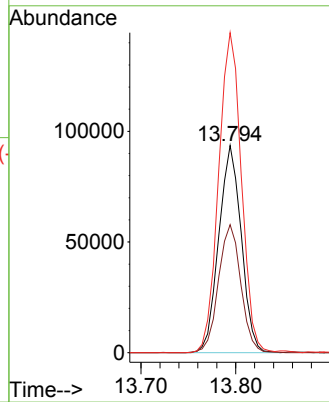
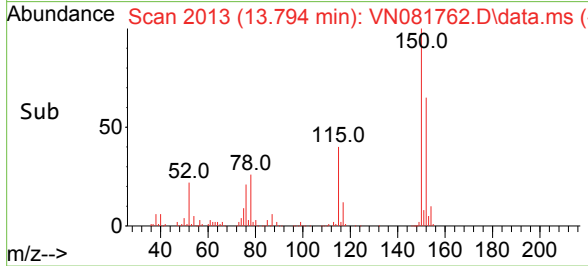


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN081762.D  
 Acq: 16 Apr 2024 16:27

Instrument :  
 MSVOA\_N  
 ClientSampleId :

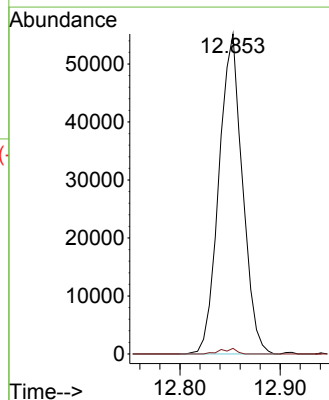
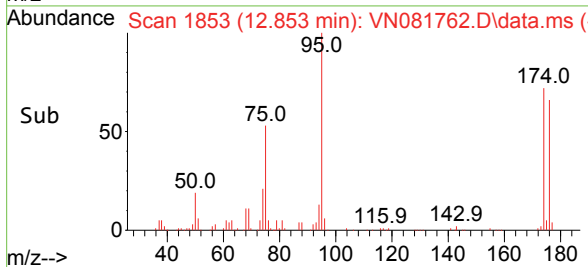
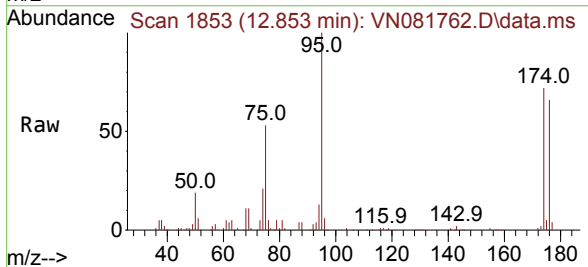


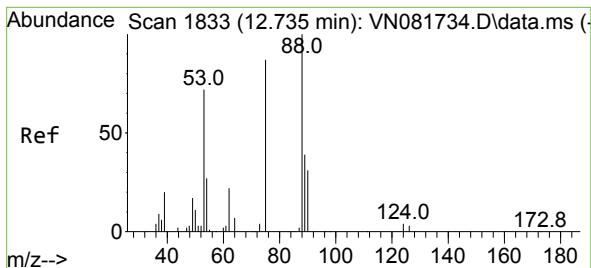
Tgt Ion:152 Resp: 154204  
 Ion Ratio Lower Upper  
 152 100  
 115 61.5 30.4 91.3  
 150 156.4 0.0 353.2



#76  
 1,2,3-Trichloropropane  
 Concen: 30.456 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.141 min  
 Lab File: VN081762.D  
 Acq: 16 Apr 2024 16:27

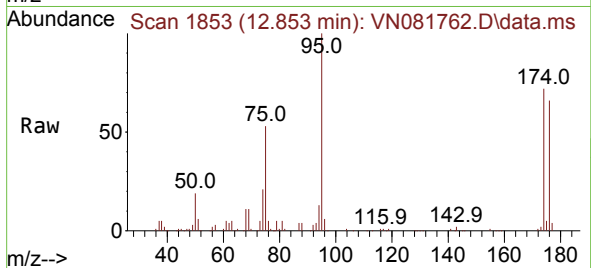
Tgt Ion: 75 Resp: 89581  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 90.5 271.3#



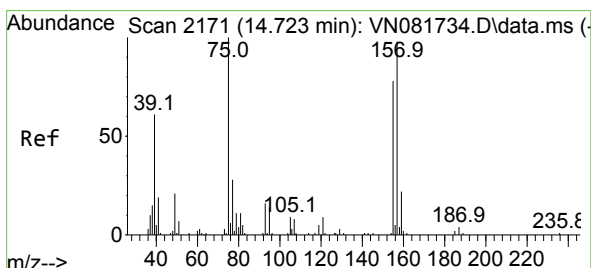
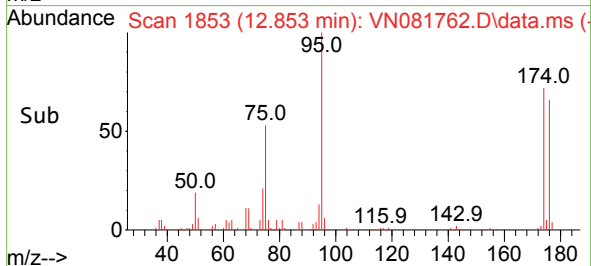
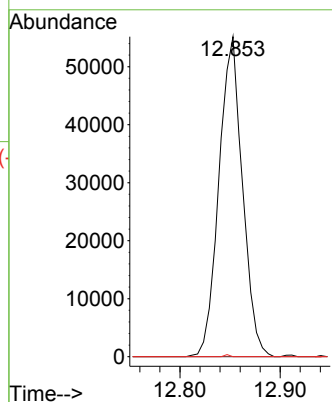


#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.081 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.118 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

Instrument :  
MSVOA\_N  
ClientSampleId :

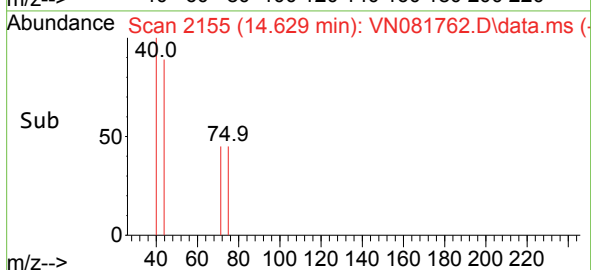
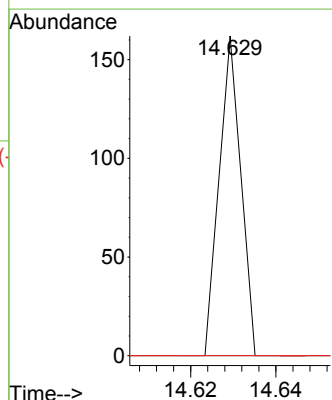
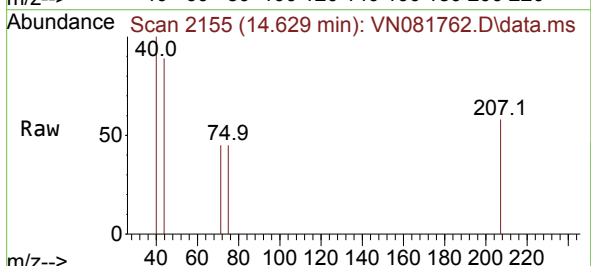


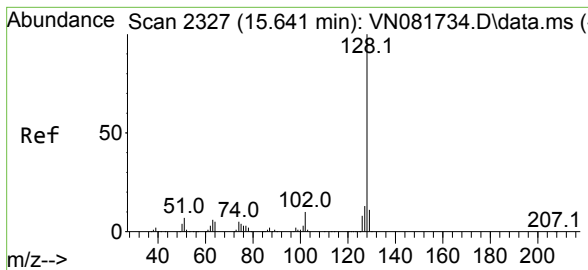
Tgt Ion: 75 Resp: 89581  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.9 109.3#  
89 0.1 39.1 58.7#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: Below Cal  
RT: 14.629 min Scan# 2155  
Delta R.T. -0.094 min  
Lab File: VN081762.D  
Acq: 16 Apr 2024 16:27

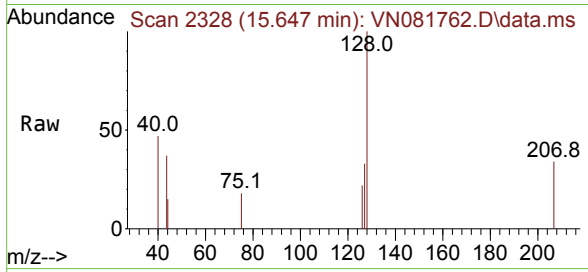
Tgt Ion: 75 Resp: 57  
Ion Ratio Lower Upper  
75 100  
155 0.0 42.6 128.0#  
157 0.0 53.0 159.0#





#95  
 Naphthalene  
 Concen: 0.203 ug/l  
 RT: 15.647 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN081762.D  
 Acq: 16 Apr 2024 16:27

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1820  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 6.3   | 10.1  | 15.1# |
| 129      | 0.0   | 8.9   | 13.3# |

