

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013024\  
 Data File : VN080815.D  
 Acq On : 30 Jan 2024 15:13  
 Operator : JC\MD  
 Sample : P1288-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-191-GW-583-585

Quant Time: Jan 31 02:11:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012924W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 29 12:54:23 2024  
 Response via : Initial Calibration

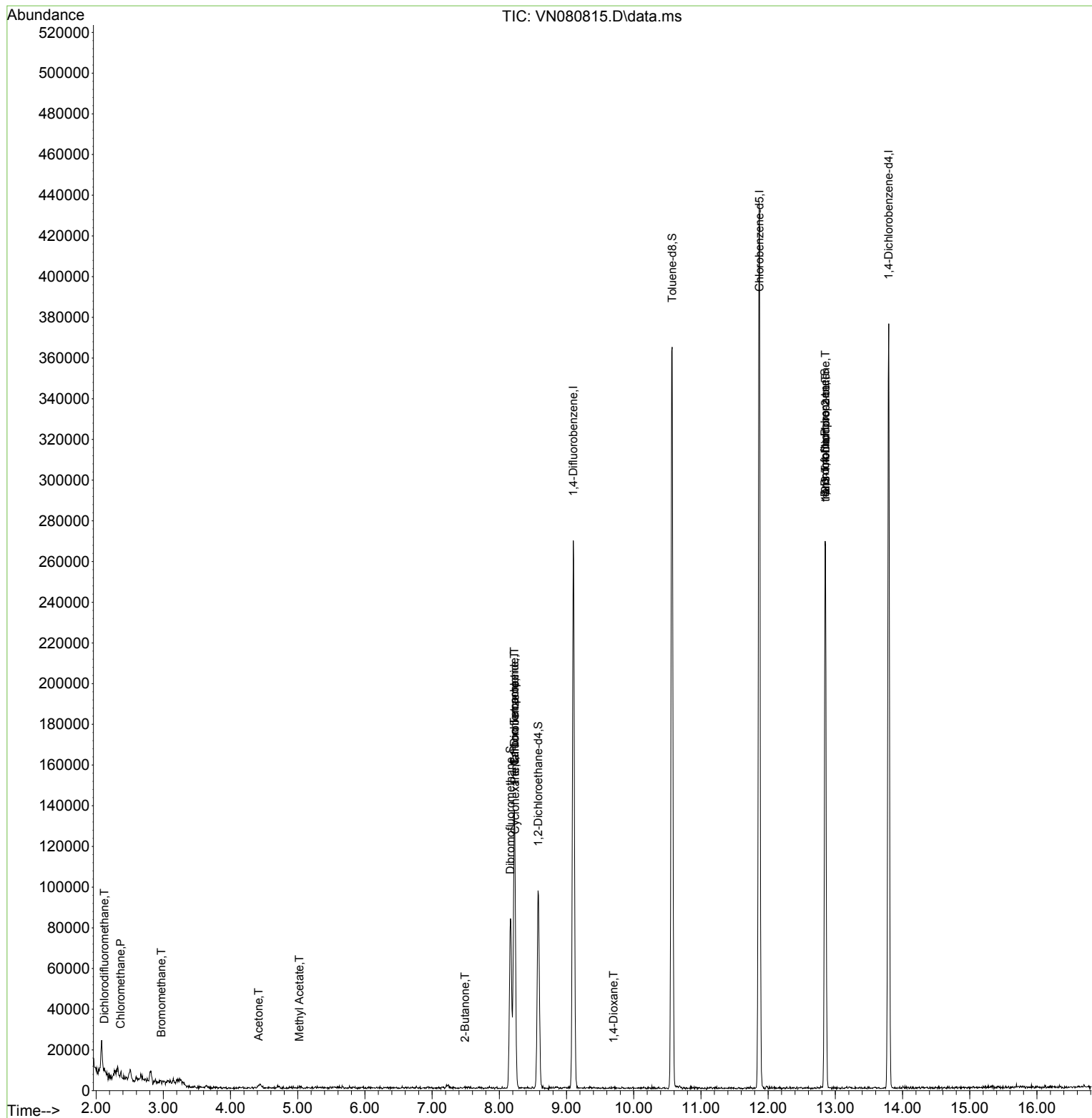
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 85107               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 205908              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 220196              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 84588               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 76453               | 51.927 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 103.860% |        |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 57908               | 45.968 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 91.940%  |        |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 241677              | 49.016 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 98.040%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 93636               | 54.497 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 109.000% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.124          | 85   | 783                 | 0.619  | ug/l # | 51       |
| 3) Chloromethane              | 2.365          | 50   | 2063                | 1.086  | ug/l # | 64       |
| 5) Bromomethane               | 2.971          | 94   | 120                 | 0.208  | ug/l # | 6        |
| 16) Acetone                   | 4.418          | 43   | 1523                | 2.852  | ug/l   | 91       |
| 18) Methyl Acetate            | 5.024          | 43   | 394                 | 0.212  | ug/l # | 54       |
| 25) 2-Butanone                | 7.489          | 43   | 728                 | 0.718  | ug/l # | 51       |
| 31) Cyclohexane               | 8.236          | 56   | 3558                | 1.409  | ug/l # | 51       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 10112               | 4.319  | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 10736               | 5.691  | ug/l # | 20       |
| 49) 1,4-Dioxane               | 9.700          | 88   | 240                 | 9.365  | ug/l # | 18       |
| 71) Bromoform                 | 12.847         | 173  | 379                 | 0.359  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 54180               | 21.237 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 54180               | 54.711 | ug/l # | 14       |
| -----                         |                |      |                     |        |        |          |

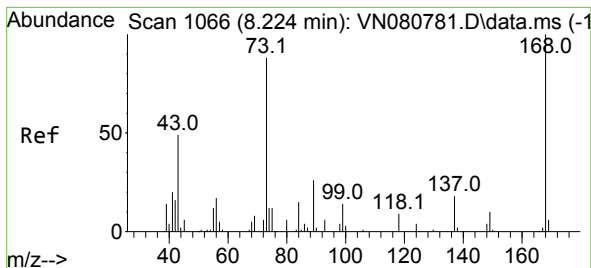
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013024\  
Data File : VN080815.D  
Acq On : 30 Jan 2024 15:13  
Operator : JC\MD  
Sample : P1288-03  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-191-GW-583-585

Quant Time: Jan 31 02:11:12 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012924W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 29 12:54:23 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

Instrument :

MSVOA\_N

ClientSampleId :

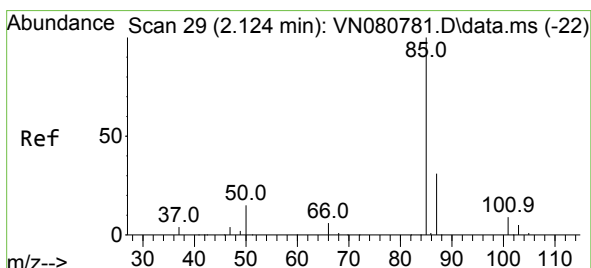
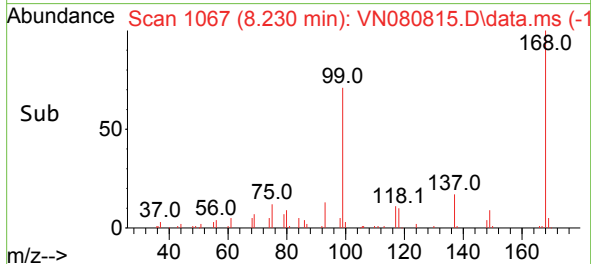
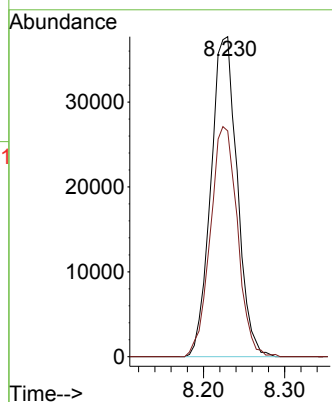
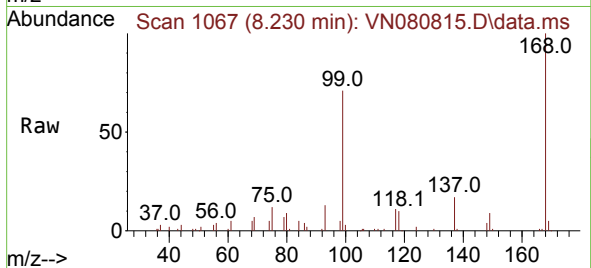
BP-VPB-191-GW-583-585

Tgt Ion:168 Resp: 85107

Ion Ratio Lower Upper

168 100

99 70.5 59.9 89.9



#2

Dichlorodifluoromethane

Concen: 0.619 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN080815.D

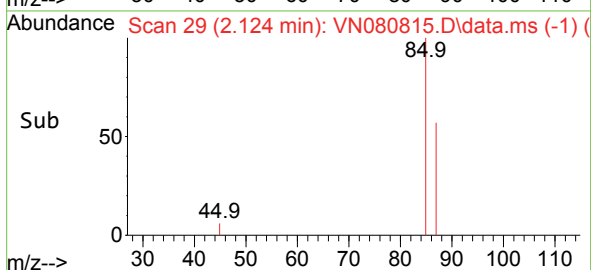
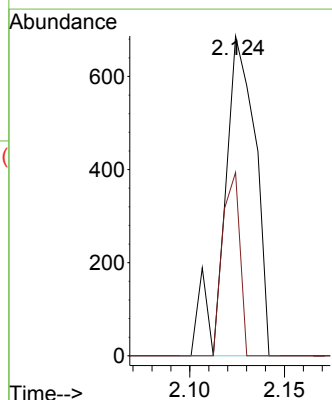
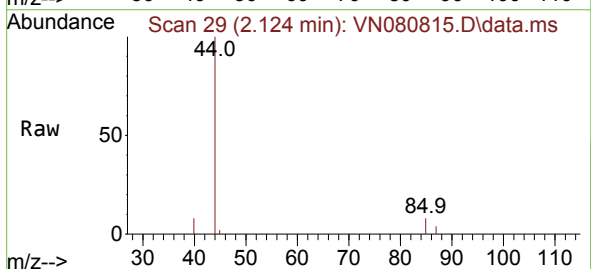
Acq: 30 Jan 2024 15:13

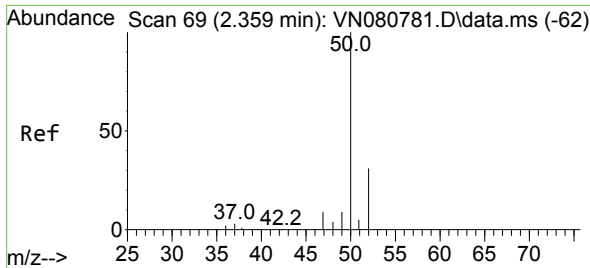
Tgt Ion: 85 Resp: 783

Ion Ratio Lower Upper

85 100

87 57.4 15.3 45.9#

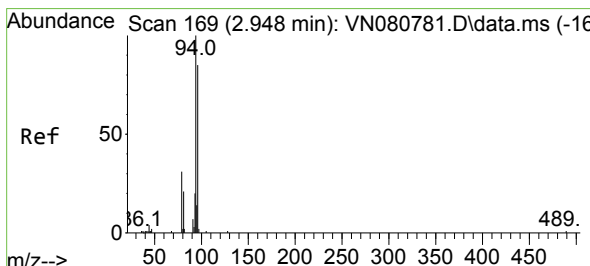
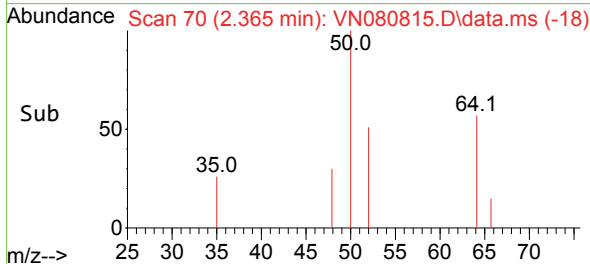
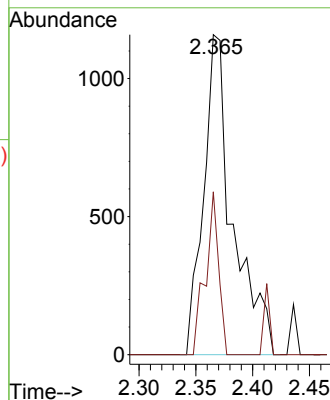
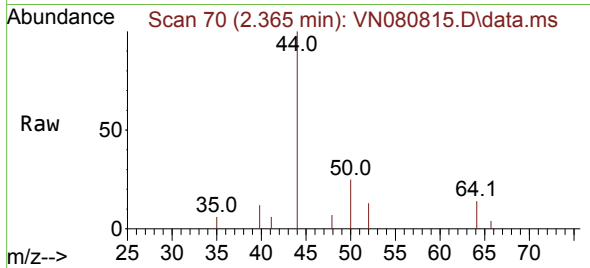




#3  
Chloromethane  
Concen: 1.086 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

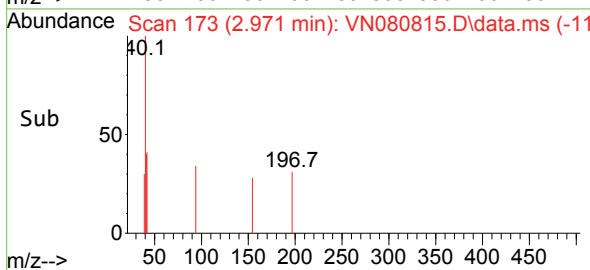
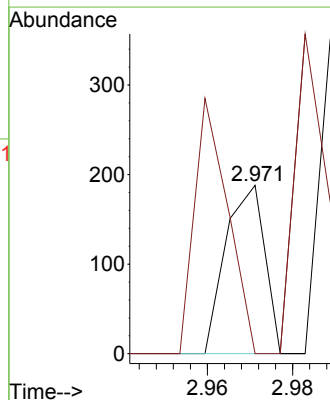
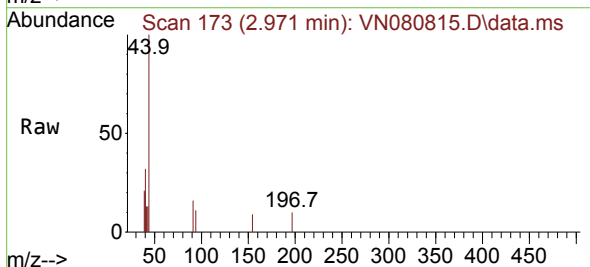
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-191-GW-583-585

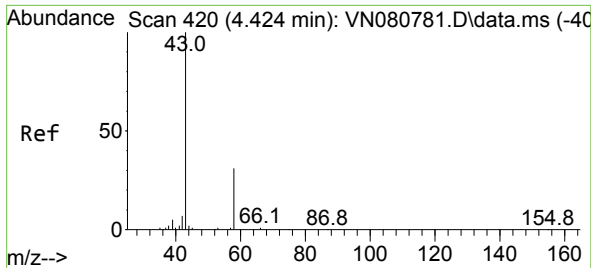
Tgt Ion: 50 Resp: 2063  
Ion Ratio Lower Upper  
50 100  
52 50.9 25.0 37.4#



#5  
Bromomethane  
Concen: 0.208 ug/l  
RT: 2.971 min Scan# 173  
Delta R.T. 0.024 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

Tgt Ion: 94 Resp: 120  
Ion Ratio Lower Upper  
94 100  
96 0.0 69.2 103.8#

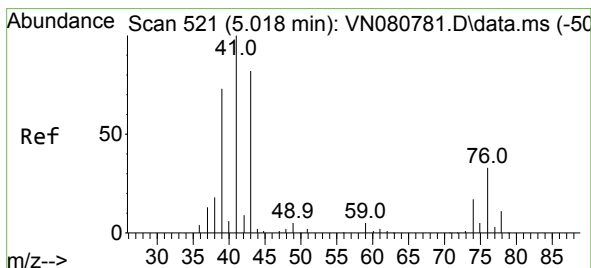
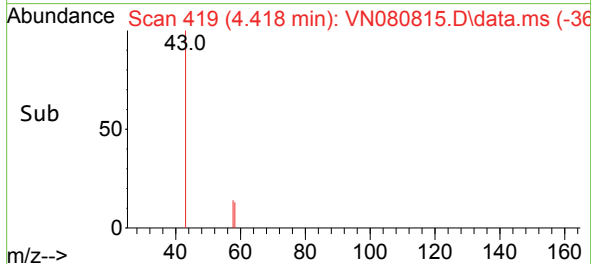
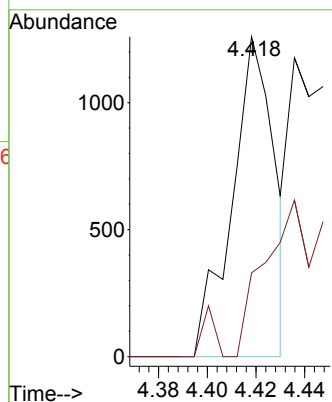
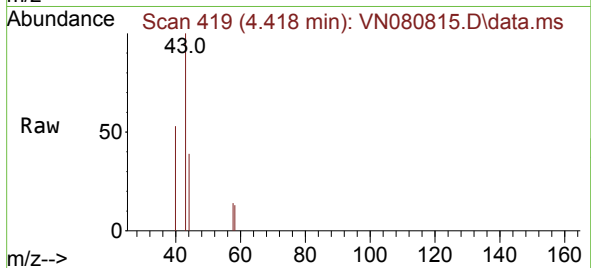




#16  
Acetone  
Concen: 2.852 ug/l  
RT: 4.418 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

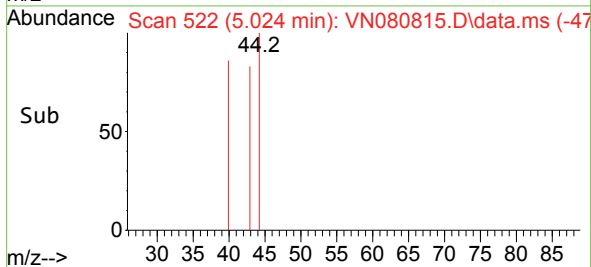
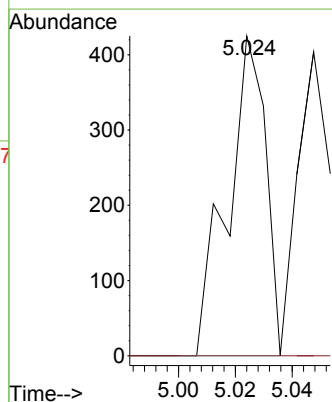
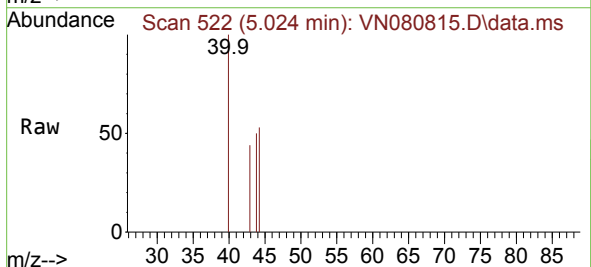
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-191-GW-583-585

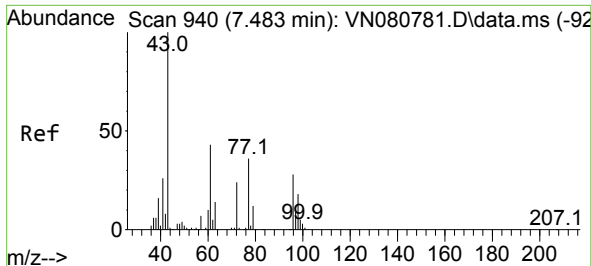
Tgt Ion: 43 Resp: 1523  
Ion Ratio Lower Upper  
43 100  
58 26.2 24.8 37.2



#18  
Methyl Acetate  
Concen: 0.212 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

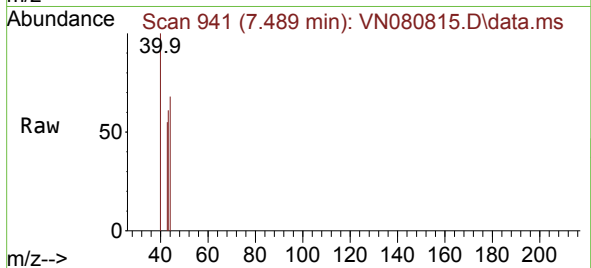
Tgt Ion: 43 Resp: 394  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.3 25.9#



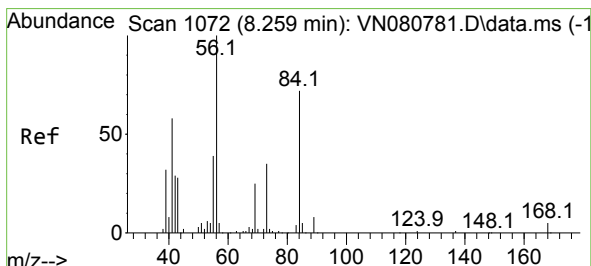
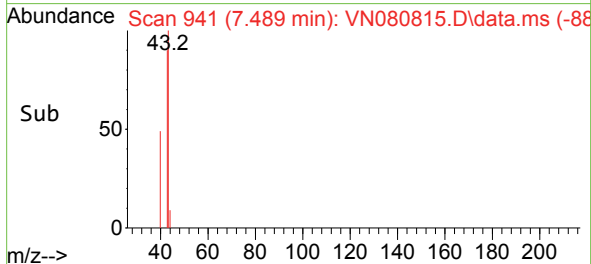
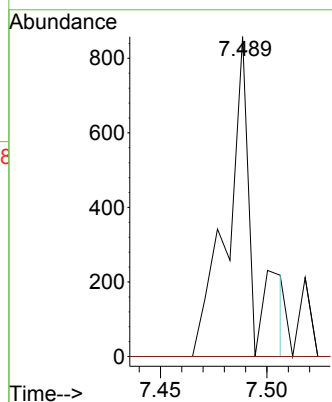


#25  
2-Butanone  
Concen: 0.718 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-191-GW-583-585

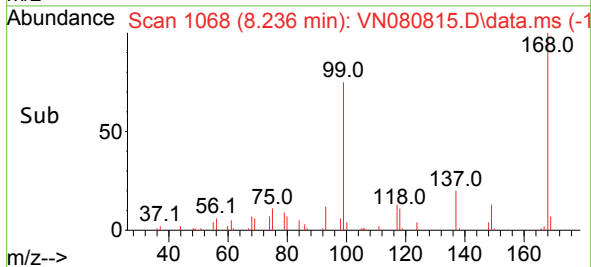
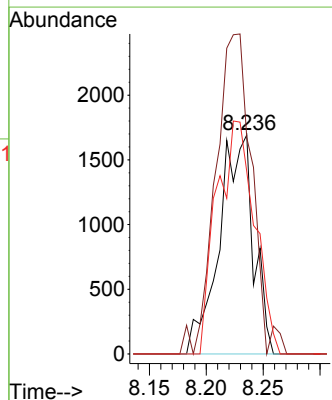
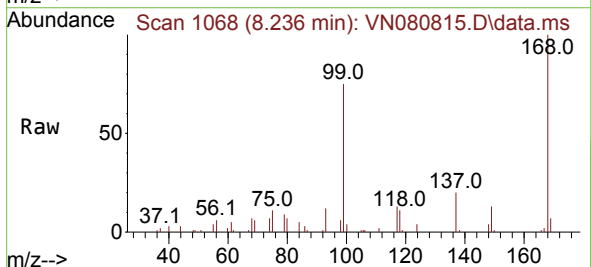


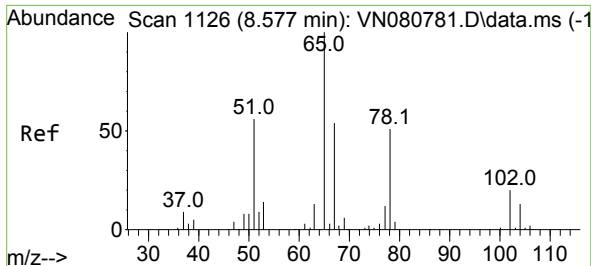
Tgt Ion: 43 Resp: 728  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.5 29.3#



#31  
Cyclohexane  
Concen: 1.409 ug/l  
RT: 8.236 min Scan# 1068  
Delta R.T. -0.023 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

Tgt Ion: 56 Resp: 3558  
Ion Ratio Lower Upper  
56 100  
69 98.8 20.1 30.1#  
84 83.3 56.9 85.3





#33

1,2-Dichloroethane-d4

Concen: 51.927 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

Instrument :

MSVOA\_N

ClientSampleId :

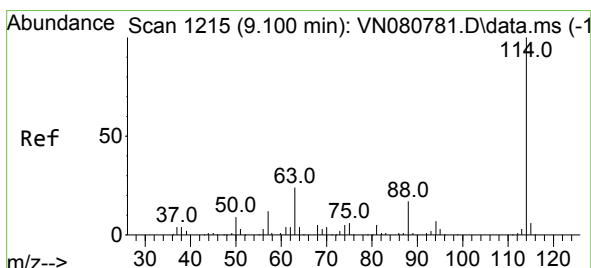
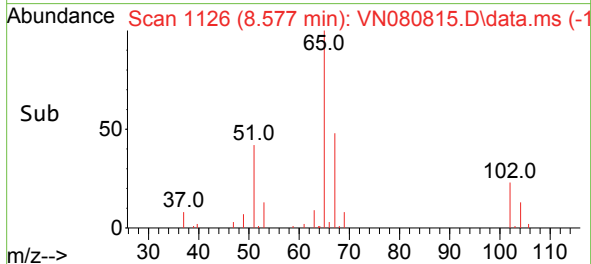
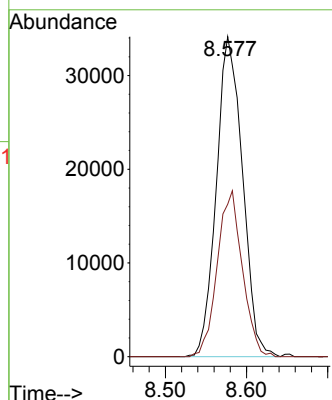
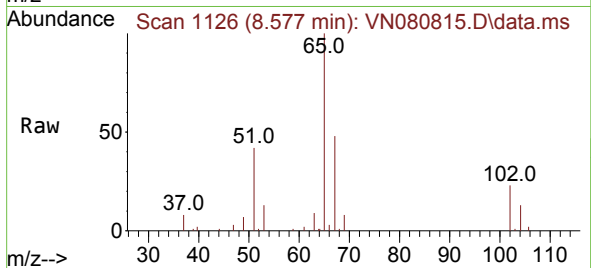
BP-VPB-191-GW-583-585

Tgt Ion: 65 Resp: 76453

Ion Ratio Lower Upper

65 100

67 49.8 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

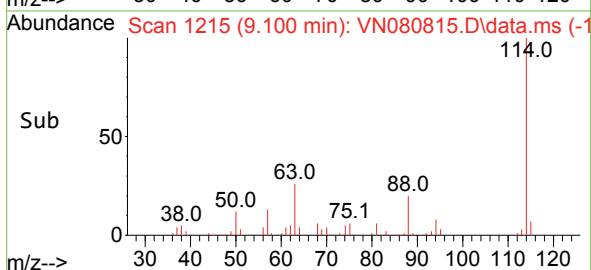
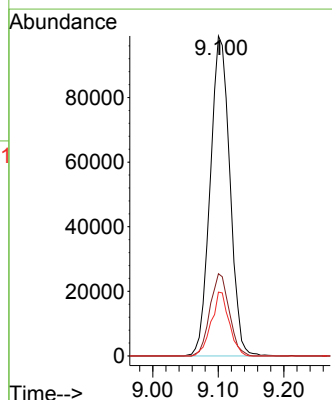
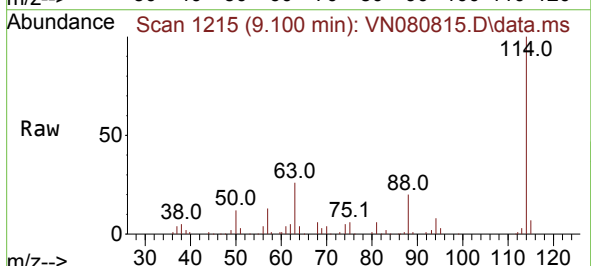
Tgt Ion: 114 Resp: 205908

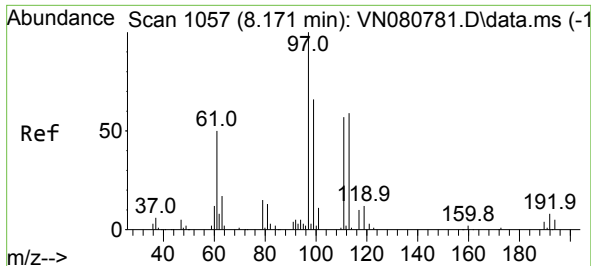
Ion Ratio Lower Upper

114 100

63 25.7 0.0 48.0

88 20.0 0.0 34.8

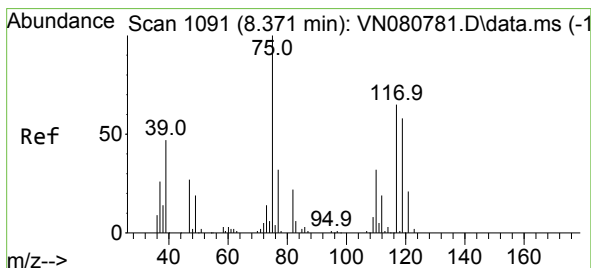
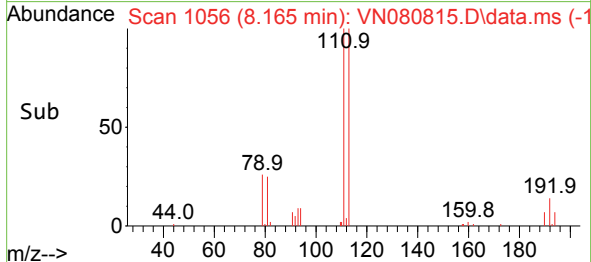
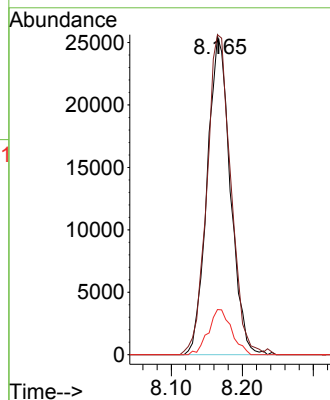
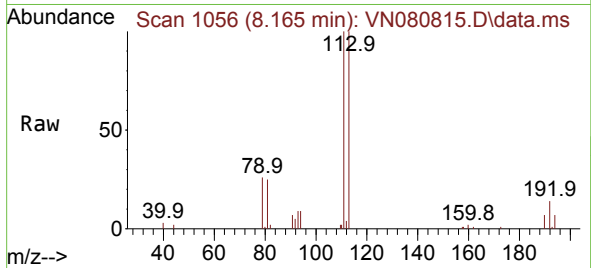




#35  
Dibromofluoromethane  
Concen: 45.968 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.006 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

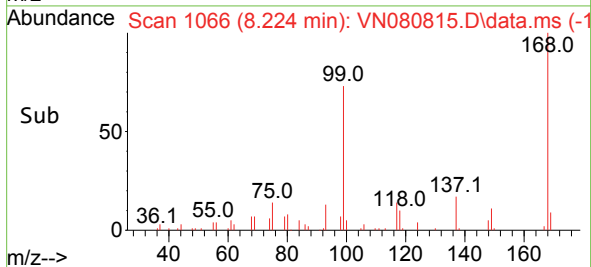
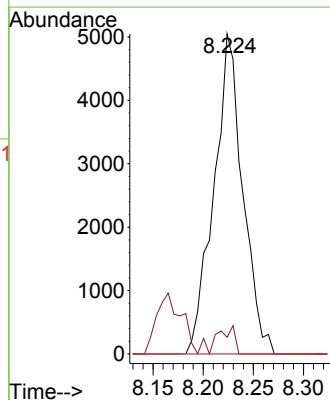
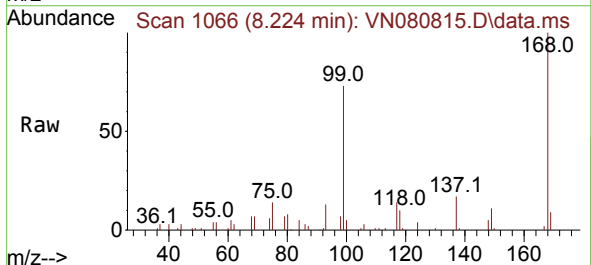
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-191-GW-583-585

Tgt Ion:113 Resp: 57908  
Ion Ratio Lower Upper  
113 100  
111 104.2 82.2 123.4  
192 14.1 12.5 18.7

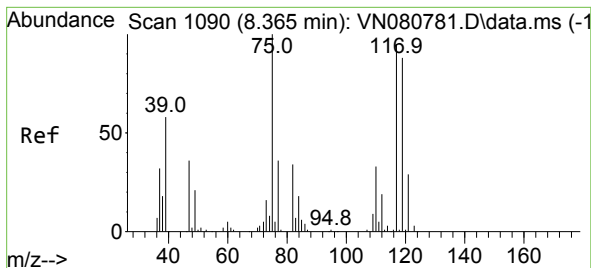


#36  
1,1-Dichloropropene  
Concen: 4.319 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN080815.D  
Acq: 30 Jan 2024 15:13

Tgt Ion: 75 Resp: 10112  
Ion Ratio Lower Upper  
75 100  
110 5.7 16.0 48.0#  
77 0.0 25.8 38.6#







#38

Carbon Tetrachloride

Concen: 5.691 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN080815.D

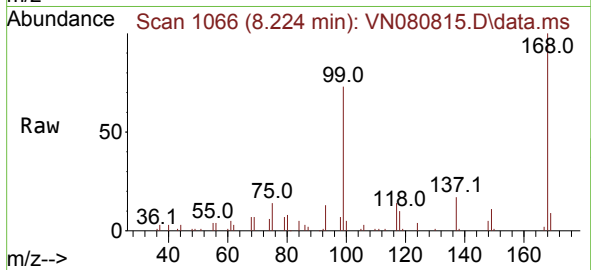
Acq: 30 Jan 2024 15:13

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-191-GW-583-585



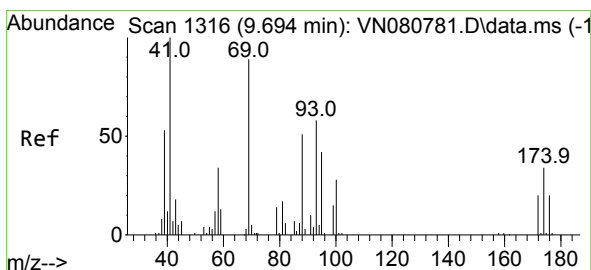
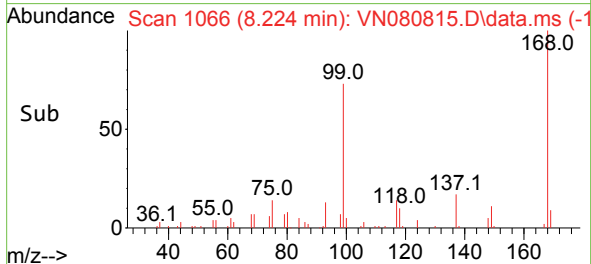
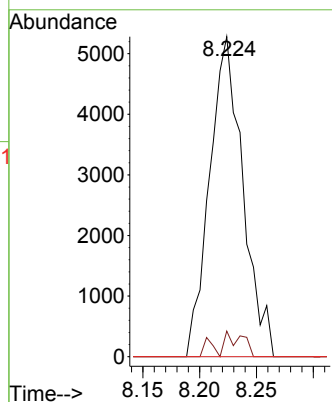
Tgt Ion:117 Resp: 10736

Ion Ratio Lower Upper

117 100

119 8.0 73.4 110.2#

121 0.0 24.4 36.6#



#49

1,4-Dioxane

Concen: 9.365 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

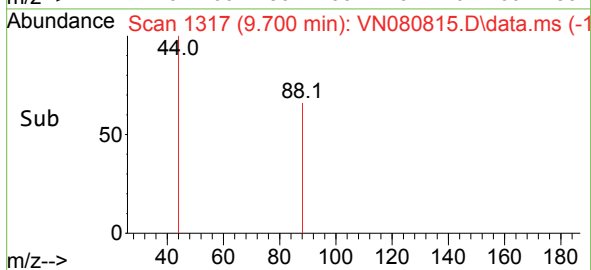
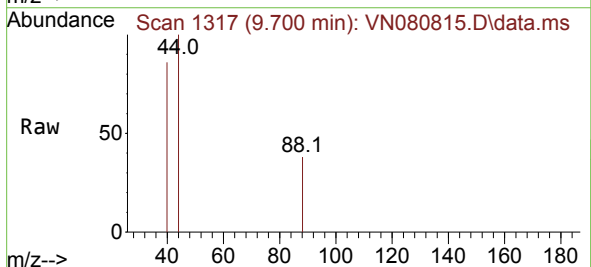
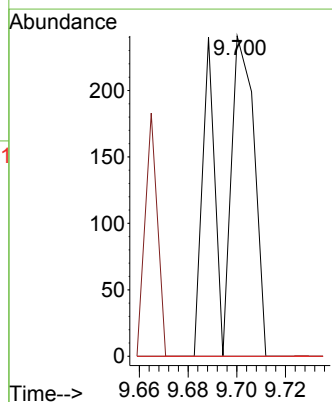
Tgt Ion: 88 Resp: 240

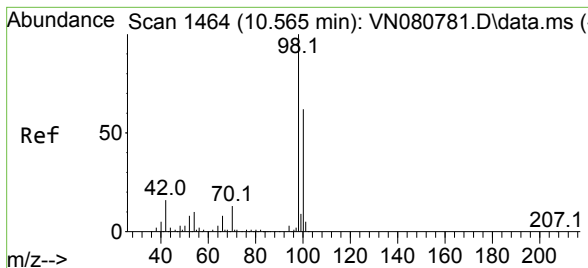
Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#





#50

Toluene-d8

Concen: 49.016 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

Instrument :

MSVOA\_N

ClientSampleId :

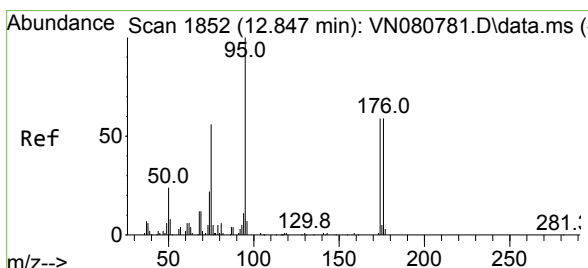
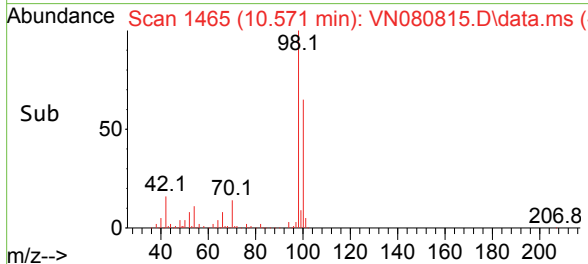
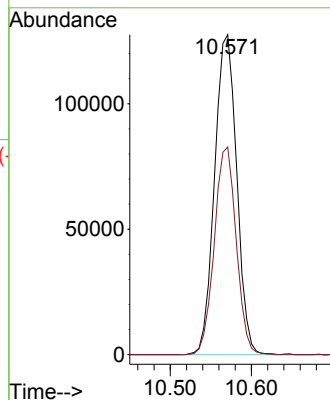
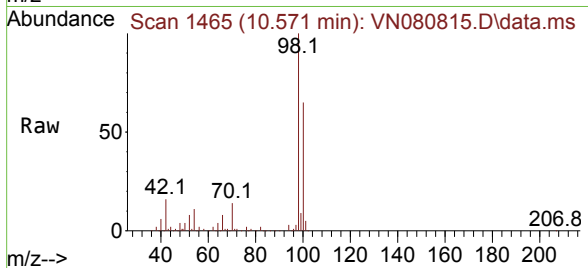
BP-VPB-191-GW-583-585

Tgt Ion: 98 Resp: 241677

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 54.497 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

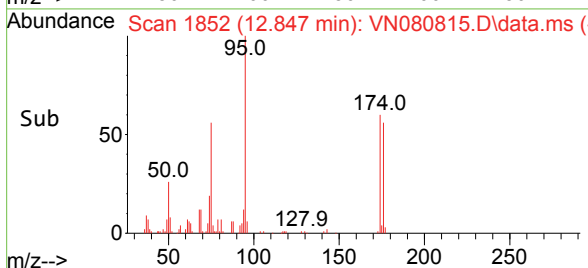
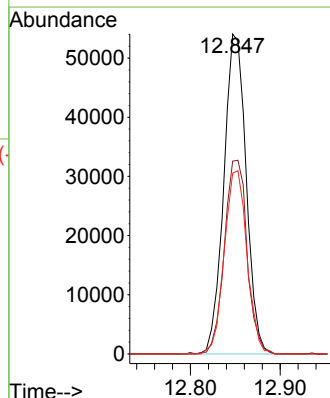
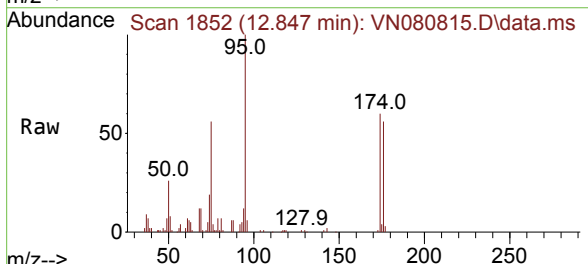
Tgt Ion: 95 Resp: 93636

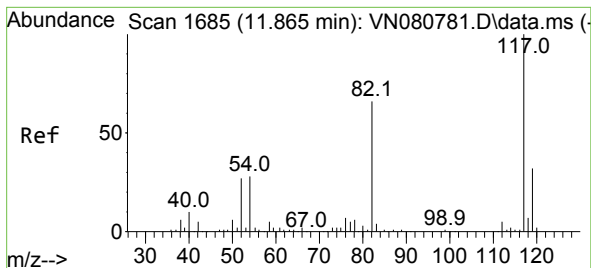
Ion Ratio Lower Upper

95 100

174 61.3 0.0 120.4

176 58.0 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-191-GW-583-585

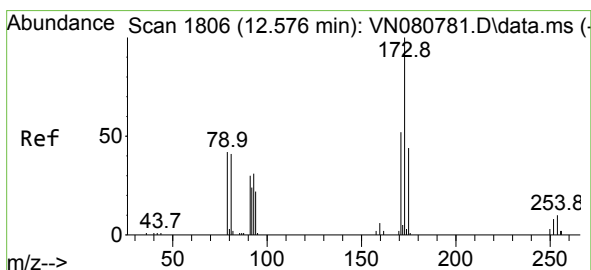
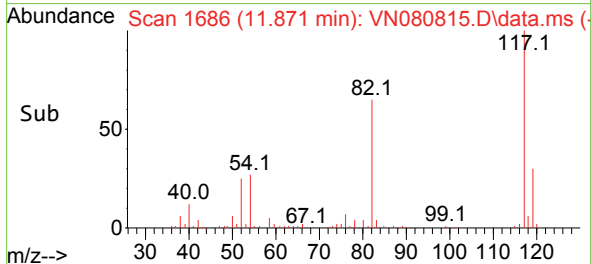
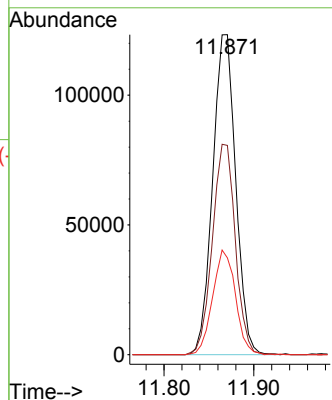
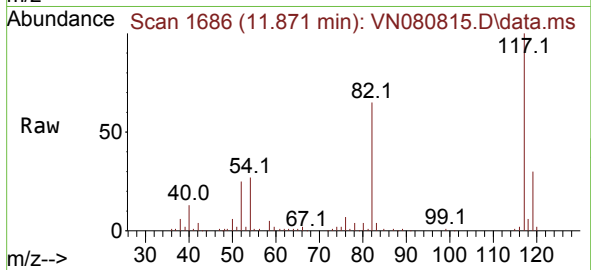
Tgt Ion:117 Resp: 220196

Ion Ratio Lower Upper

117 100

82 65.4 52.7 79.1

119 30.3 25.3 37.9



#71

Bromoform

Concen: 0.359 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

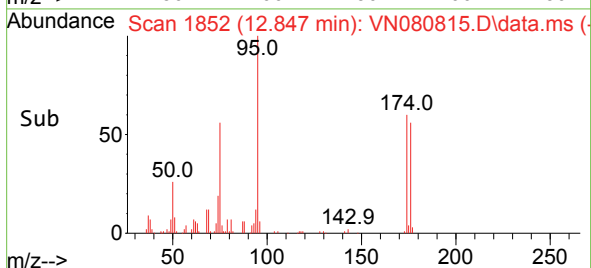
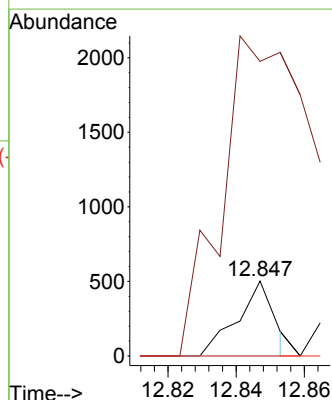
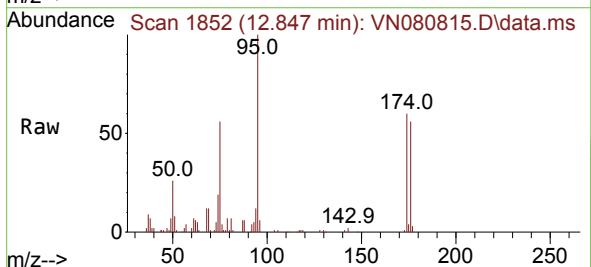
Tgt Ion:173 Resp: 379

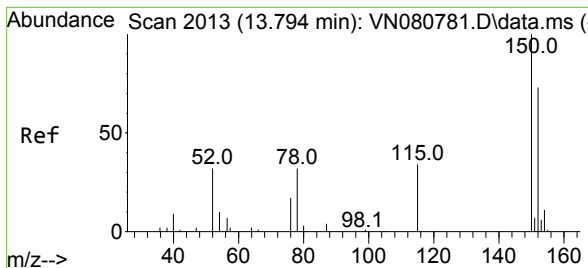
Ion Ratio Lower Upper

173 100

175 524.5 23.1 69.2#

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. 0.000 min

Lab File: VN080815.D

Acq: 30 Jan 2024 15:13

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-191-GW-583-585

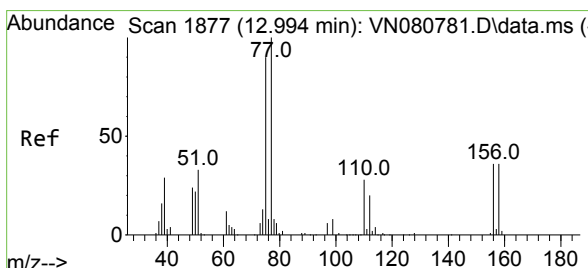
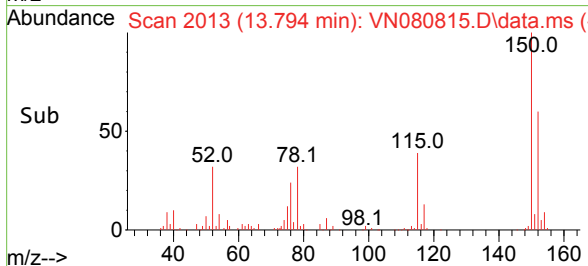
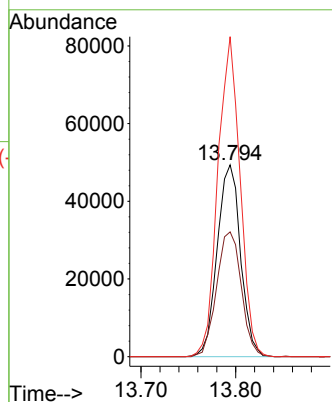
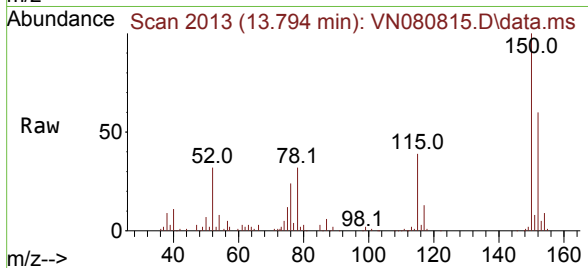
Tgt Ion:152 Resp: 84588

Ion Ratio Lower Upper

152 100

115 68.9 32.3 96.8

150 158.7 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 21.237 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080815.D

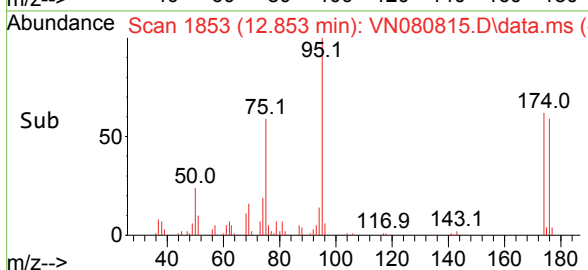
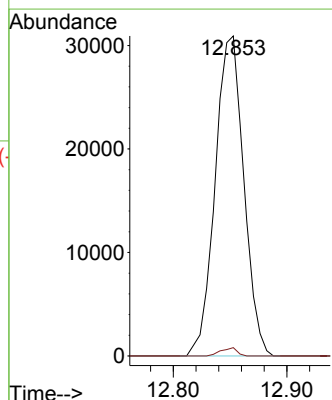
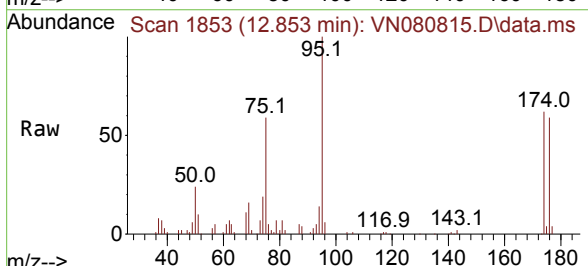
Acq: 30 Jan 2024 15:13

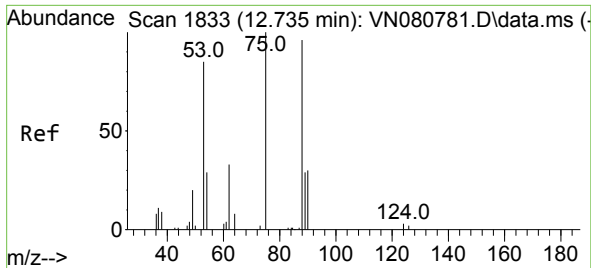
Tgt Ion: 75 Resp: 54180

Ion Ratio Lower Upper

75 100

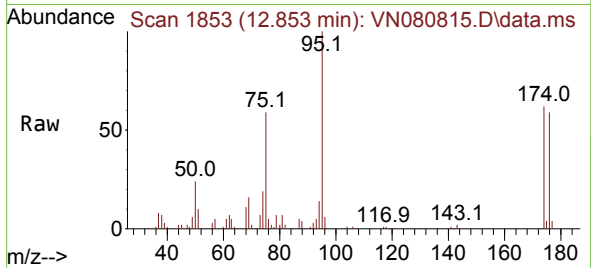
77 1.5 91.0 272.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 54.711 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN080815.D  
 Acq: 30 Jan 2024 15:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-191-GW-583-585



Tgt Ion: 75 Resp: 54180  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 71.4 107.2#  
 89 0.0 33.4 50.0#

