

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071124\  
 Data File : VN082883.D  
 Acq On : 11 Jul 2024 17:57  
 Operator : JC\MD  
 Sample : P3222-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-196-EB-20240709

Quant Time: Jul 12 01:10:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 13:46:04 2024  
 Response via : Initial Calibration

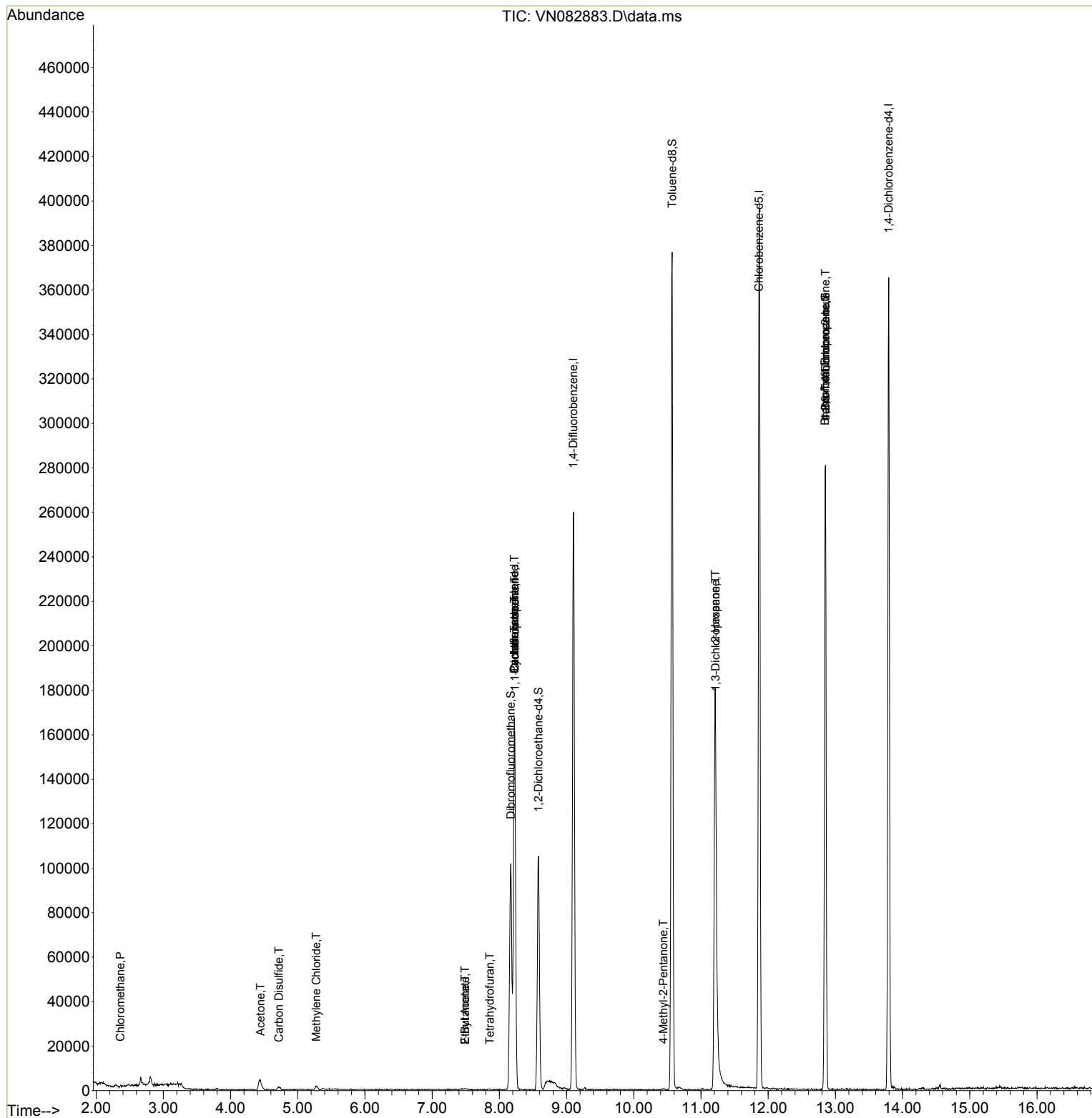
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 115989   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 220464   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 223403   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 95298    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 86210    | 53.022    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 106.040% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 72532    | 51.272    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 102.540% |          |
| 50) Toluene-d8                | 10.571 | 98    | 259131   | 49.594    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 99.180%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 94436    | 50.316    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery  | = 100.640% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.359  | 50    | 441      | 0.310     | ug/l #     | 43       |
| 16) Acetone                   | 4.447  | 43    | 9265     | 16.185    | ug/l       | 96       |
| 17) Carbon Disulfide          | 4.718  | 76    | 1781     | 0.503     | ug/l #     | 75       |
| 20) Methylene Chloride        | 5.277  | 84    | 1200     | 0.868     | ug/l #     | 77       |
| 25) 2-Butanone                | 7.488  | 43    | 1234     | 1.428     | ug/l #     | 53       |
| 29) Tetrahydrofuran           | 7.859  | 42    | 307      | 0.564     | ug/l #     | 38       |
| 31) Cyclohexane               | 8.224  | 56    | 2852     | 1.342     | ug/l #     | 23       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 10453    | 5.359     | ug/l #     | 51       |
| 37) Ethyl Acetate             | 7.488  | 43    | 1234     | 0.621     | ug/l #     | 72       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 13148    | 5.599     | ug/l #     | 18       |
| 43) Isopropyl Acetate         | 8.735  | 43    | 5478     | Below Cal | #          | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43    | 757      | 0.385     | ug/l #     | 39       |
| 57) 1,3-Dichloropropane       | 11.218 | 76    | 1175     | 0.482     | ug/l #     | 43       |
| 59) 2-Hexanone                | 11.212 | 43    | 61542    | 42.047    | ug/l #     | 40       |
| 71) Bromoform                 | 12.847 | 173   | 664      | 0.496     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 54013    | 32.875    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 54013    | 64.655    | ug/l #     | 6        |
| -----                         |        |       |          |           |            |          |

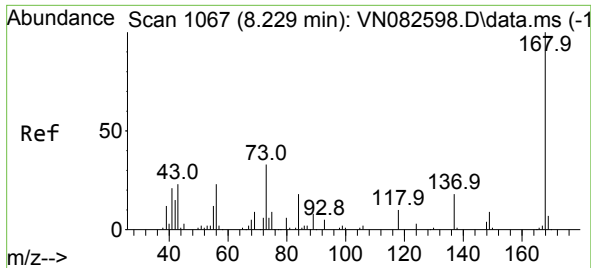
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BP-VPB-196-EB-20240709

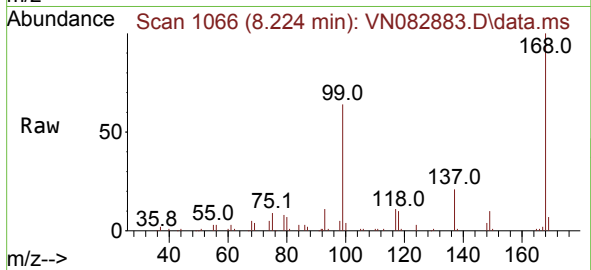
Quant Time: Jul 12 01:10:23 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 08 13:46:04 2024  
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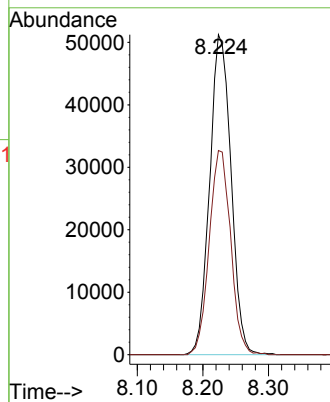
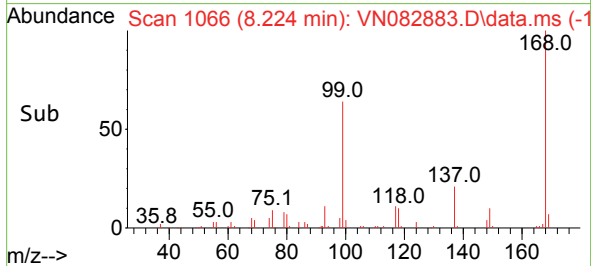


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.005 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

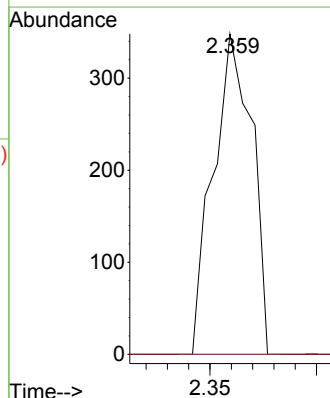
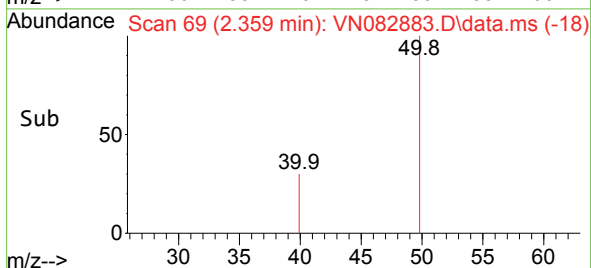
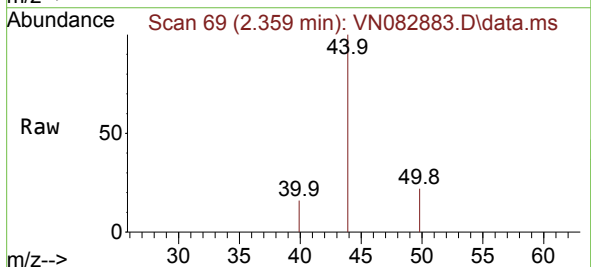


Tgt Ion:168 Resp: 115989  
Ion Ratio Lower Upper  
168 100  
99 63.8 48.2 72.4



#3  
Chloromethane  
Concen: 0.310 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Tgt Ion: 50 Resp: 441  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.0 37.4#

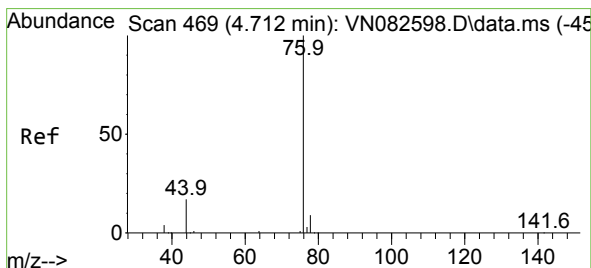
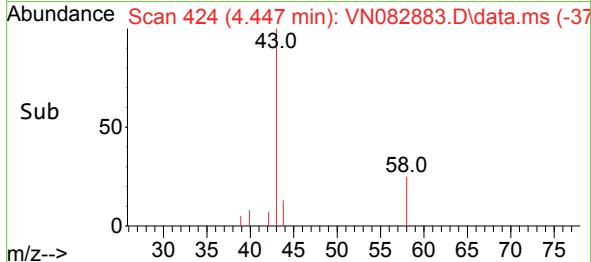
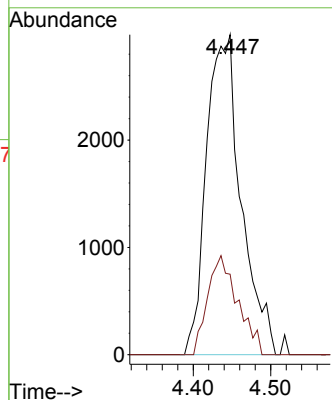
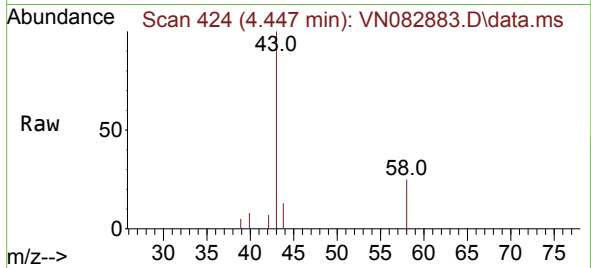




#16  
Acetone  
Concen: 16.185 ug/l  
RT: 4.447 min Scan# 41  
Delta R.T. 0.017 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

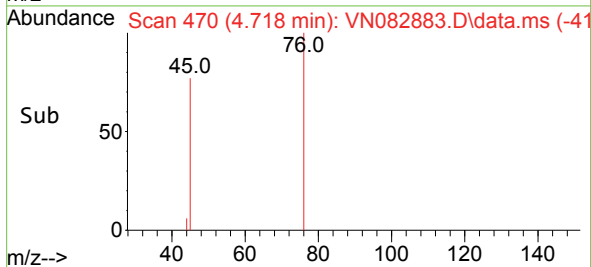
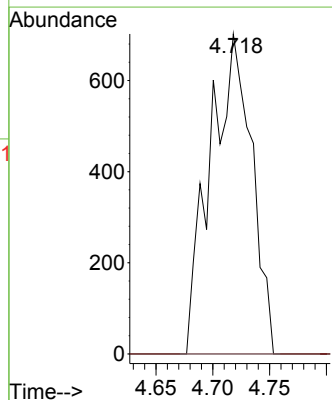
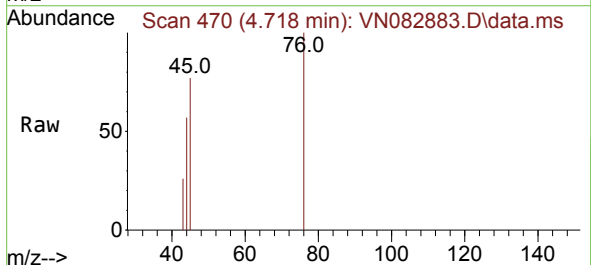
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

Tgt Ion: 43 Resp: 9265  
Ion Ratio Lower Upper  
43 100  
58 25.2 21.8 32.6



#17  
Carbon Disulfide  
Concen: 0.503 ug/l  
RT: 4.718 min Scan# 470  
Delta R.T. 0.006 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

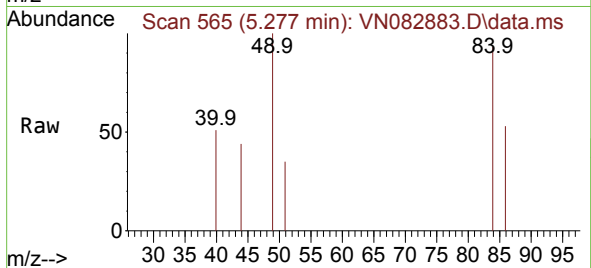
Tgt Ion: 76 Resp: 1781  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#





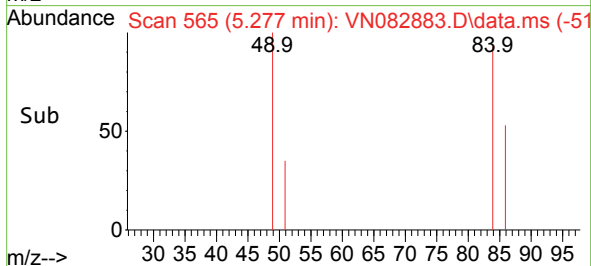
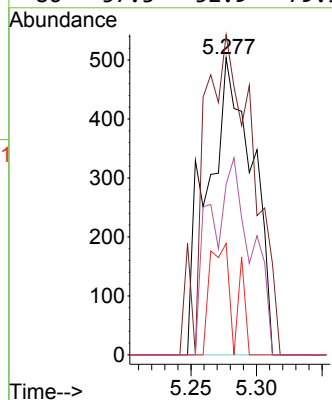
#20  
Methylene Chloride  
Concen: 0.868 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709



Tgt Ion: 84 Resp: 1200

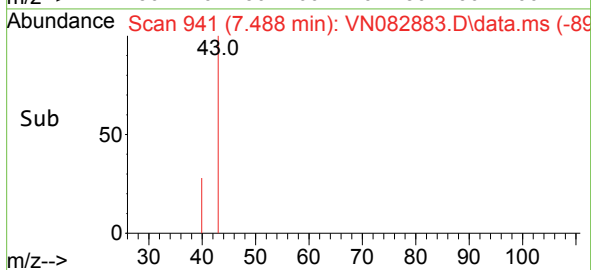
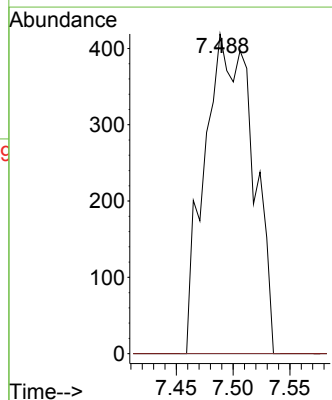
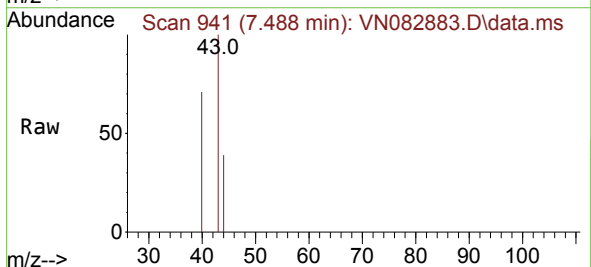
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 107.7 | 119.6 | 179.4# |
| 51  | 37.5  | 34.8  | 52.2   |
| 86  | 57.3  | 52.9  | 79.3   |

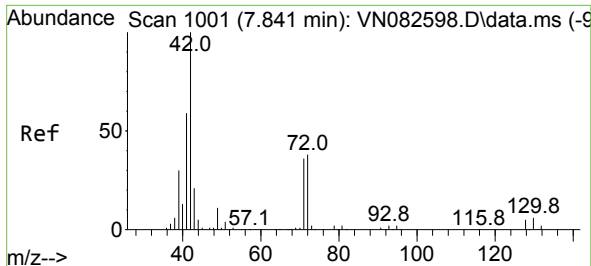


#25  
2-Butanone  
Concen: 1.428 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Tgt Ion: 43 Resp: 1234

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 18.2  | 27.2# |

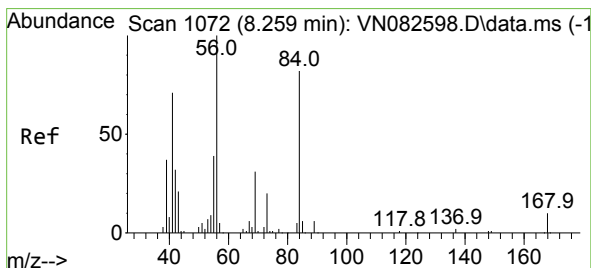
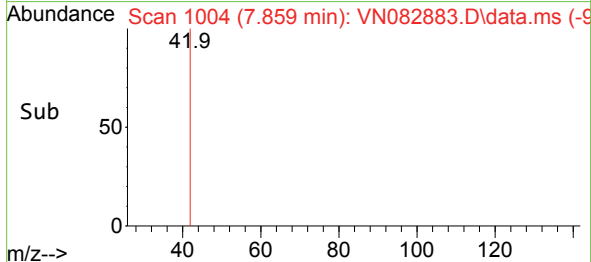
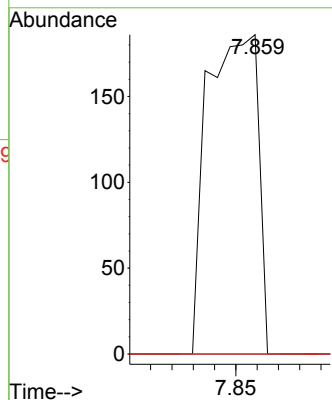
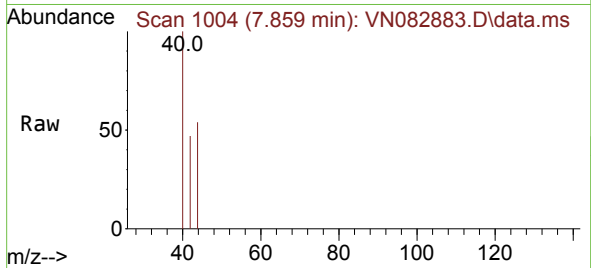




#29  
Tetrahydrofuran  
Concen: 0.564 ug/l  
RT: 7.859 min Scan# 1004  
Delta R.T. 0.018 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

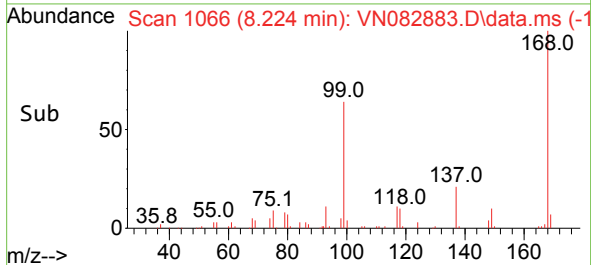
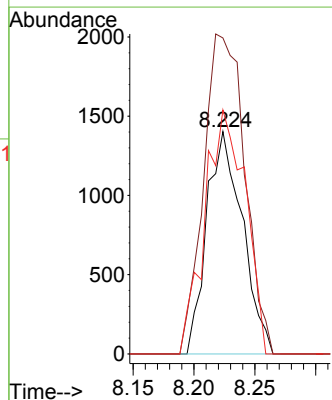
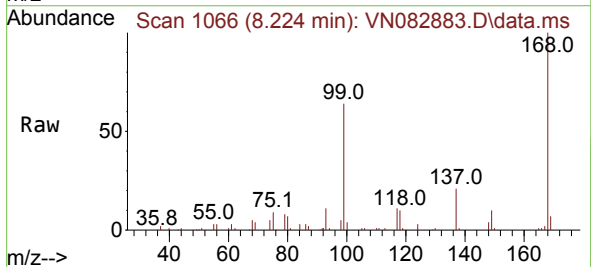
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

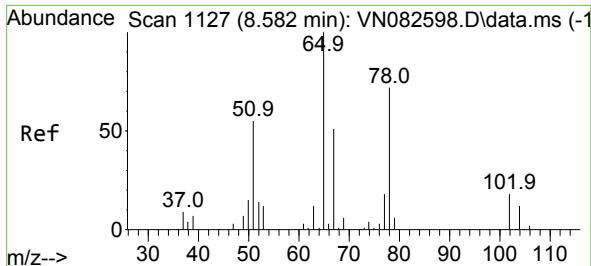
Tgt Ion: 42 Resp: 307  
Ion Ratio Lower Upper  
42 100  
72 0.0 30.0 45.0#  
71 0.0 28.3 42.5#



#31  
Cyclohexane  
Concen: 1.342 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.035 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Tgt Ion: 56 Resp: 2852  
Ion Ratio Lower Upper  
56 100  
69 142.1 24.5 36.7#  
84 109.7 66.0 99.0#





#33

1,2-Dichloroethane-d4

Concen: 53.022 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN082883.D

Acq: 11 Jul 2024 17:57

Instrument :

MSVOA\_N

ClientSampleId :

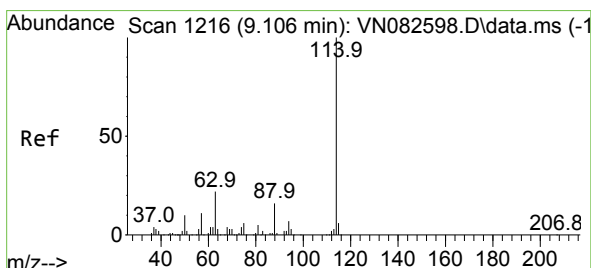
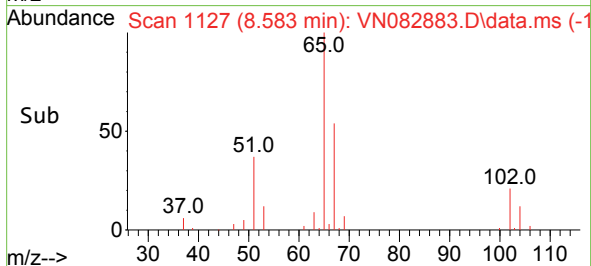
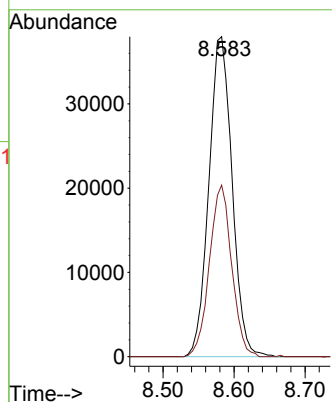
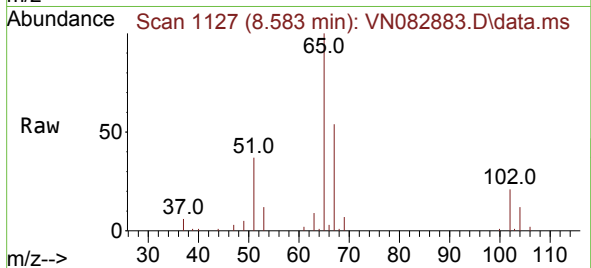
BP-VPB-196-EB-20240709

Tgt Ion: 65 Resp: 86210

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN082883.D

Acq: 11 Jul 2024 17:57

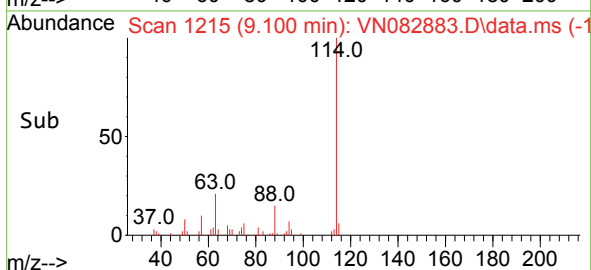
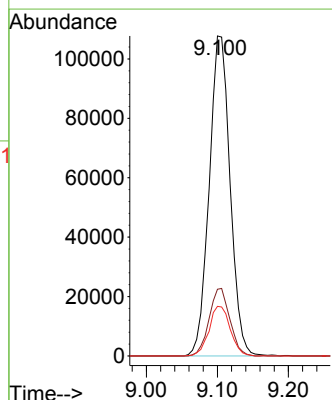
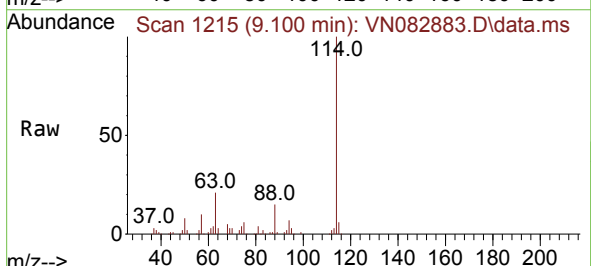
Tgt Ion: 114 Resp: 220464

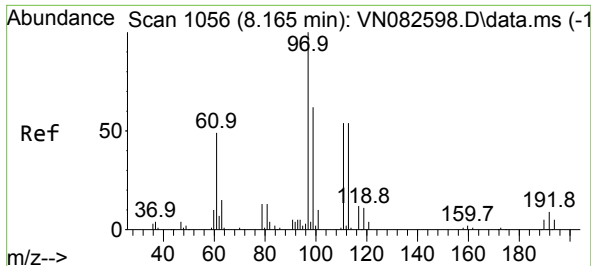
Ion Ratio Lower Upper

114 100

63 20.8 0.0 44.6

88 15.5 0.0 31.4

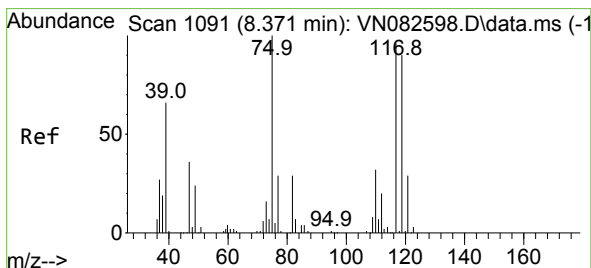
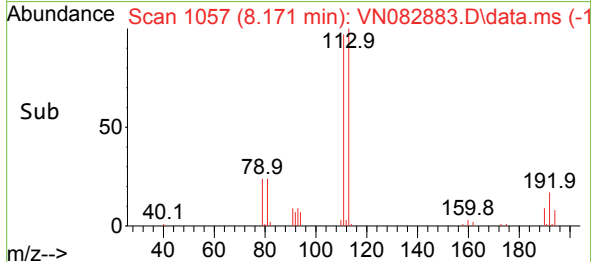
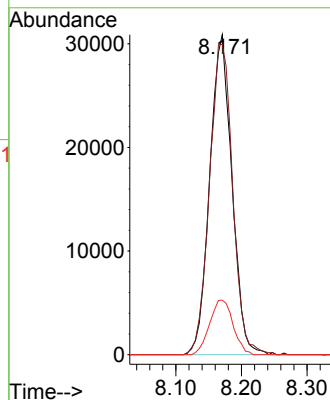
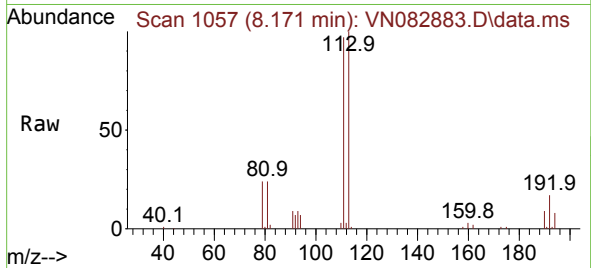




#35  
Dibromofluoromethane  
Concen: 51.272 ug/l  
RT: 8.171 min Scan# 1056  
Delta R.T. 0.006 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

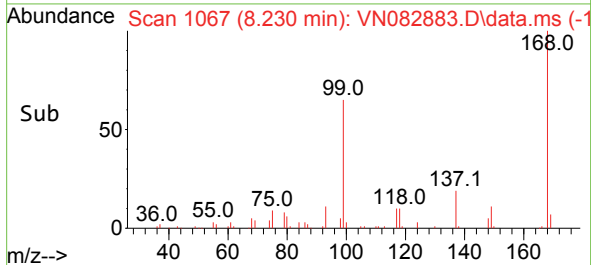
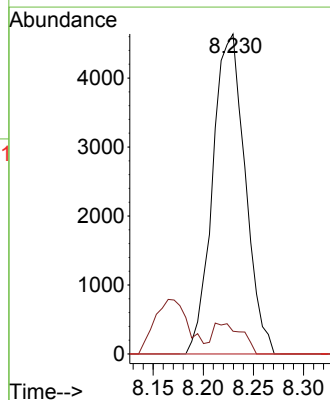
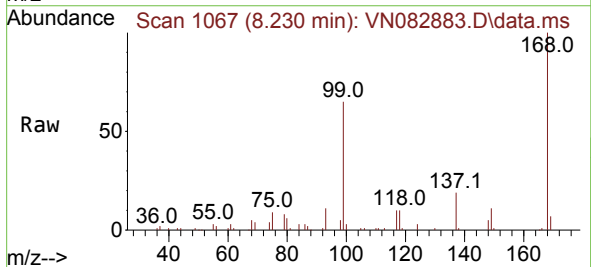
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MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

Tgt Ion:113 Resp: 72532  
Ion Ratio Lower Upper  
113 100  
111 101.3 82.4 123.6  
192 18.0 14.9 22.3



#36  
1,1-Dichloropropene  
Concen: 5.359 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Tgt Ion: 75 Resp: 10453  
Ion Ratio Lower Upper  
75 100  
110 8.8 16.3 48.9#  
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 0.621 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.077 min

Lab File: VN082883.D

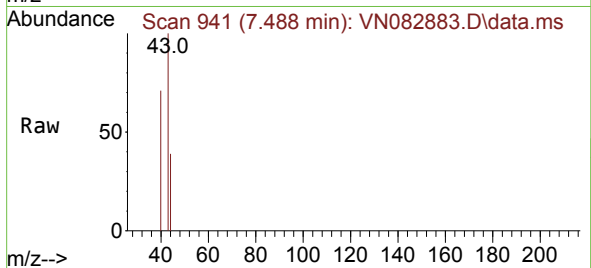
Acq: 11 Jul 2024 17:57

Instrument :

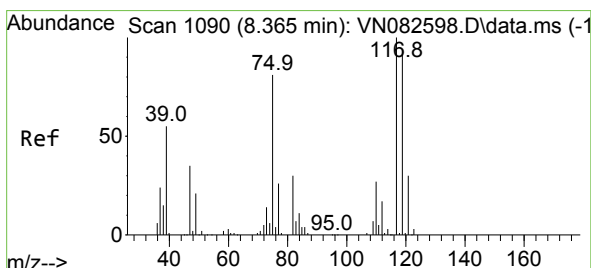
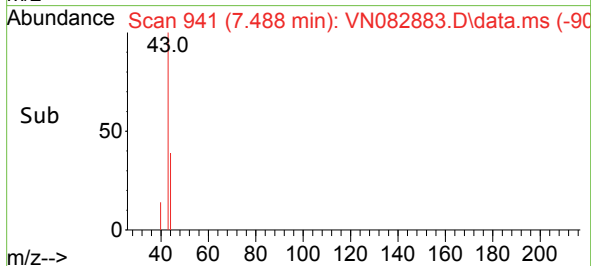
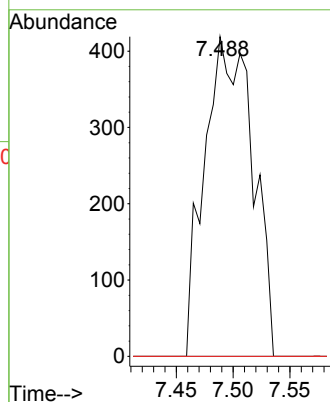
MSVOA\_N

ClientSampleId :

BP-VPB-196-EB-20240709



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1234  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 9.3   | 13.9# |
| 70       | 0.0   | 7.0   | 10.6# |



#38

Carbon Tetrachloride

Concen: 5.599 ug/l

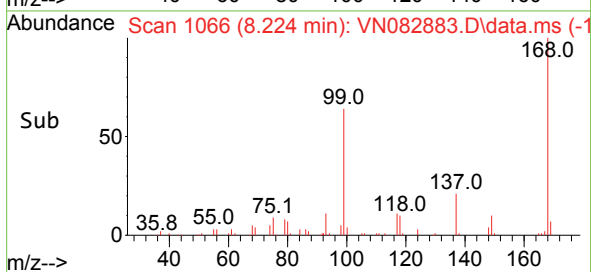
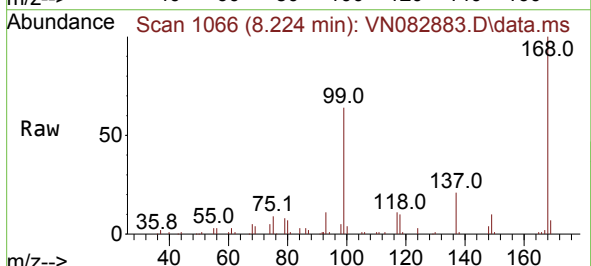
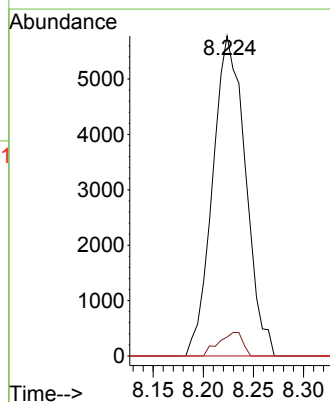
RT: 8.224 min Scan# 1066

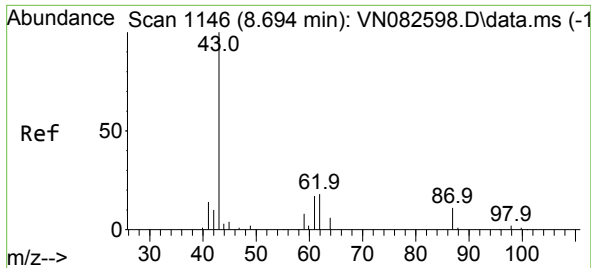
Delta R.T. -0.141 min

Lab File: VN082883.D

Acq: 11 Jul 2024 17:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13148  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.9   | 74.9  | 112.3# |
| 121      | 0.0   | 24.3  | 36.5#  |

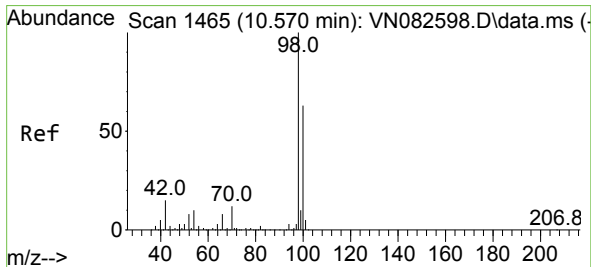
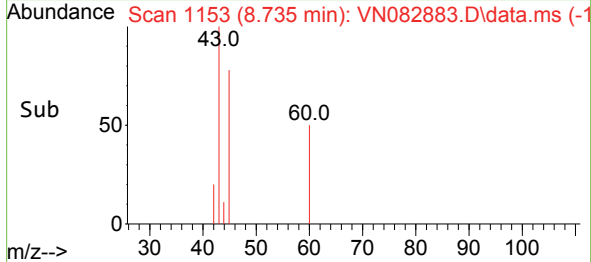
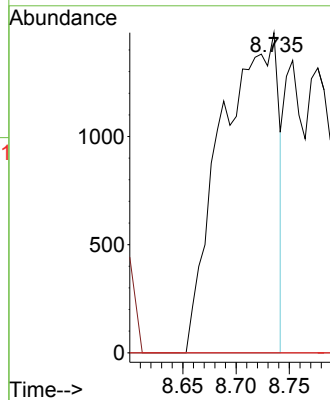
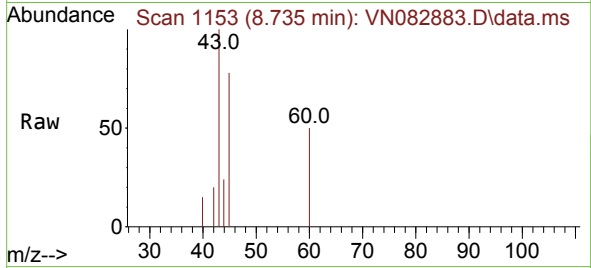




#43  
Isopropyl Acetate  
Concen: Below Cal  
RT: 8.735 min Scan# 1146  
Delta R.T. 0.041 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

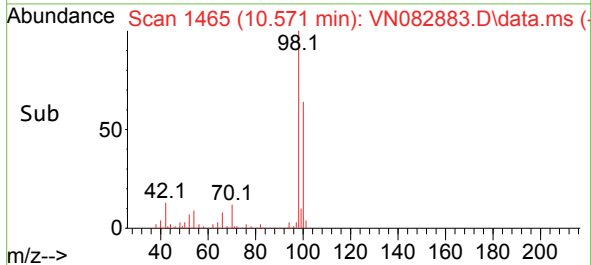
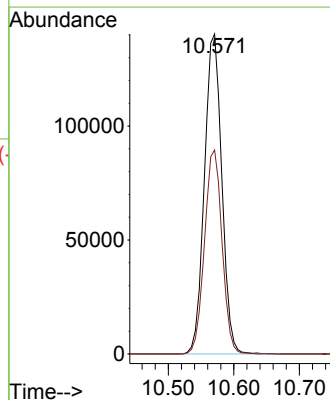
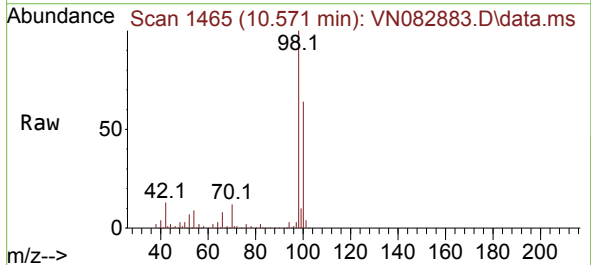
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

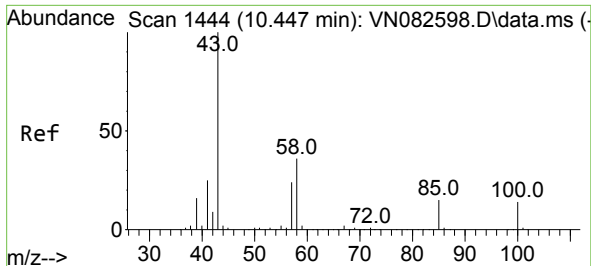
Tgt Ion: 43 Resp: 5478  
Ion Ratio Lower Upper  
43 100  
61 0.0 17.8 26.6#  
87 0.0 8.2 12.2#



#50  
Toluene-d8  
Concen: 49.594 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.001 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Tgt Ion: 98 Resp: 259131  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.5 77.3

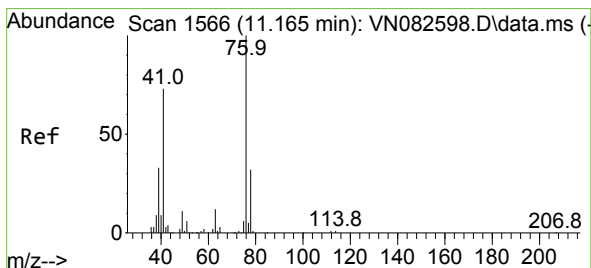
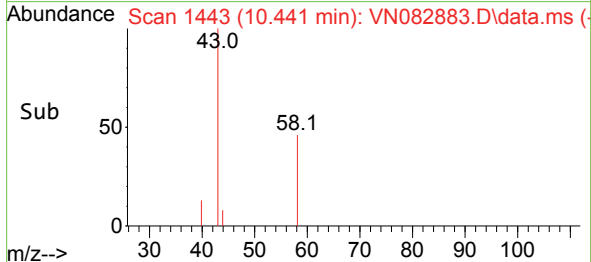
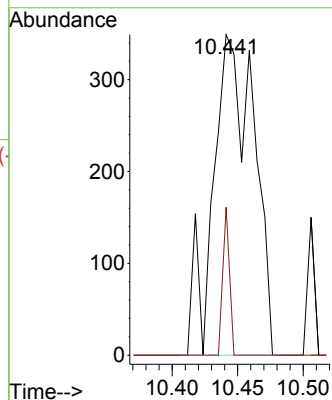
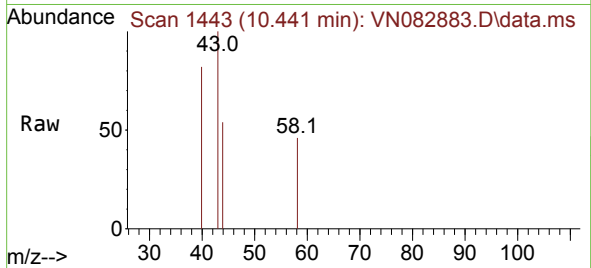




#51  
4-Methyl-2-Pentanone  
Concen: 0.385 ug/l  
RT: 10.441 min Scan# 1444  
Delta R.T. -0.006 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

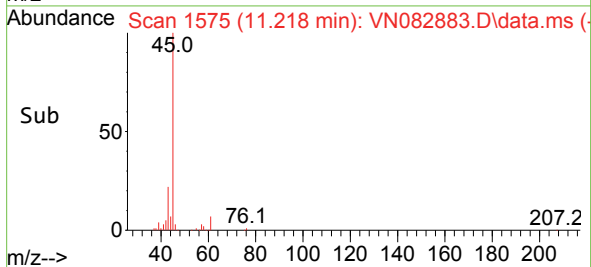
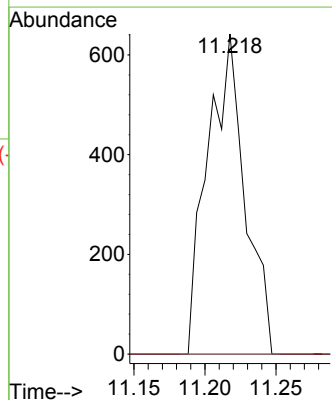
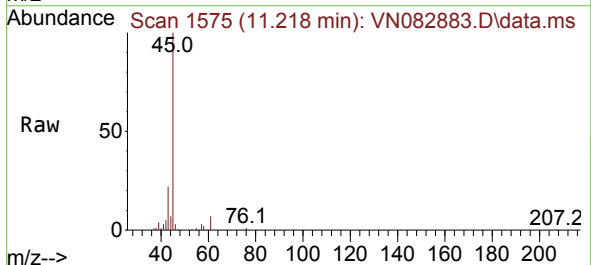
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

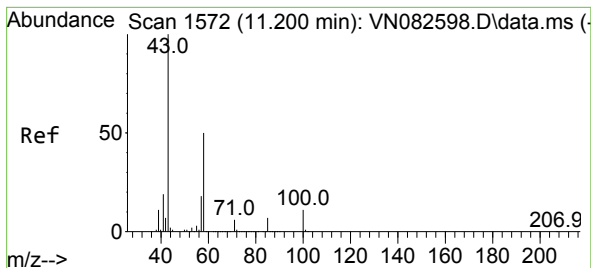
Tgt Ion: 43 Resp: 757  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.2 42.4#



#57  
1,3-Dichloropropane  
Concen: 0.482 ug/l  
RT: 11.218 min Scan# 1575  
Delta R.T. 0.053 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

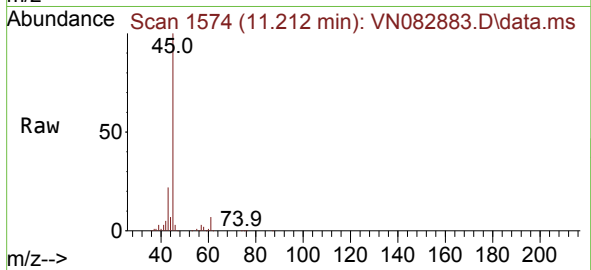
Tgt Ion: 76 Resp: 1175  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.6 38.4#



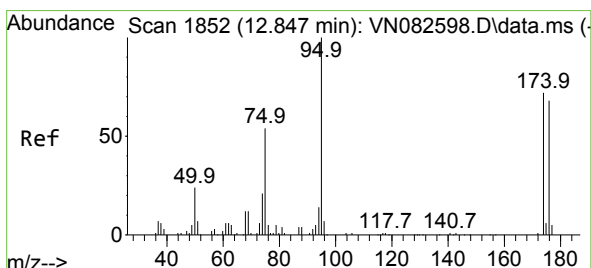
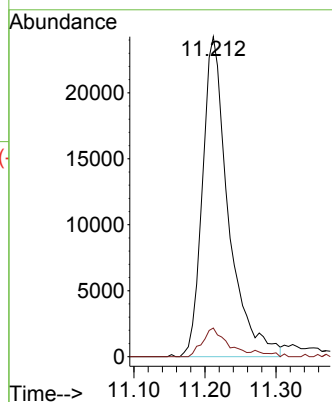
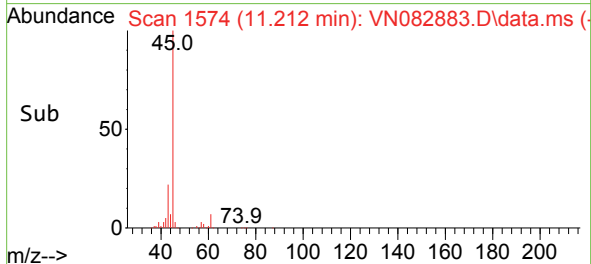


#59  
2-Hexanone  
Concen: 42.047 ug/l  
RT: 11.212 min Scan# 1157  
Delta R.T. 0.012 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

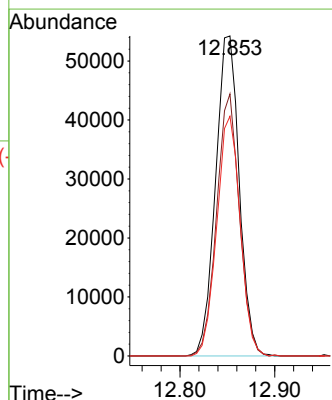
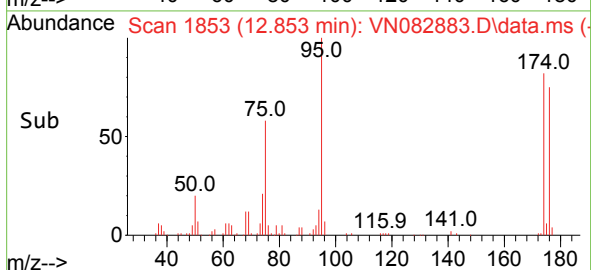
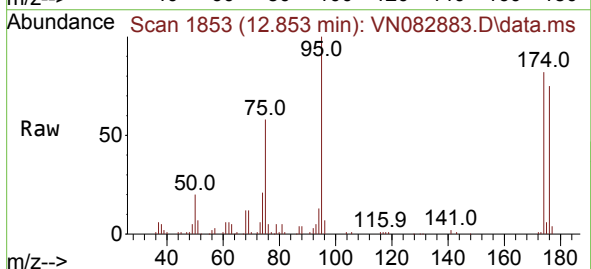


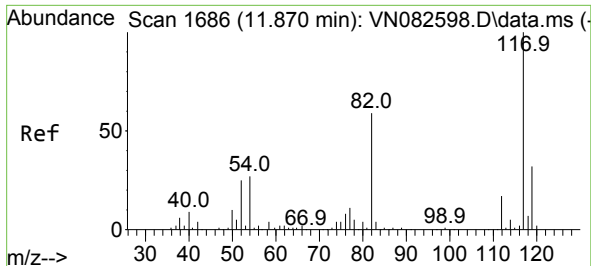
Tgt Ion: 43 Resp: 61542  
Ion Ratio Lower Upper  
43 100  
58 8.3 24.6 73.8#



#62  
4-Bromofluorobenzene  
Concen: 50.316 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Tgt Ion: 95 Resp: 94436  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 159.2  
176 74.0 0.0 147.6

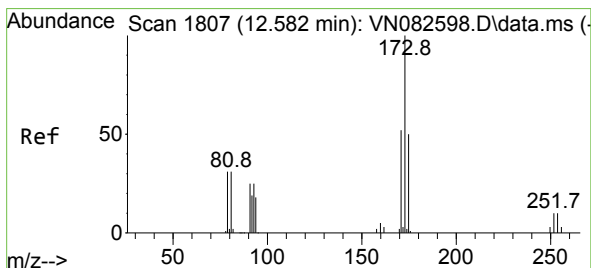
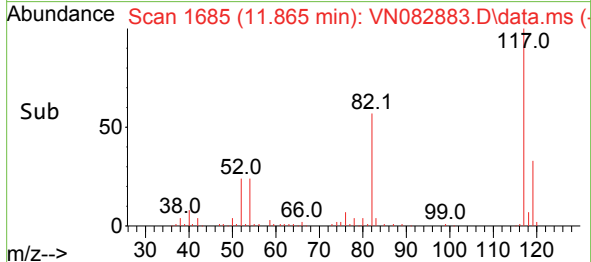
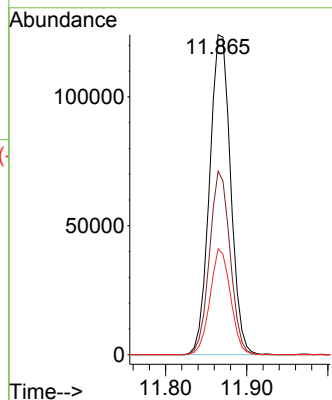
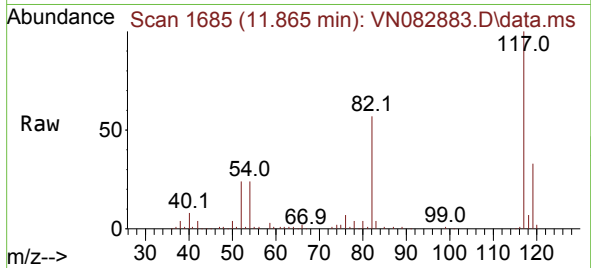




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.005 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

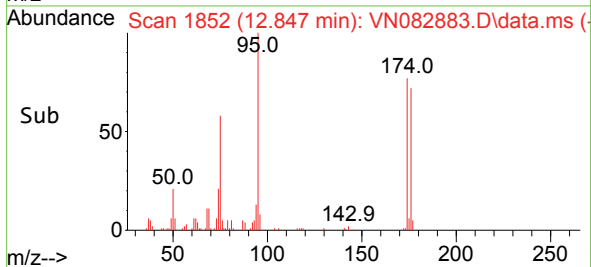
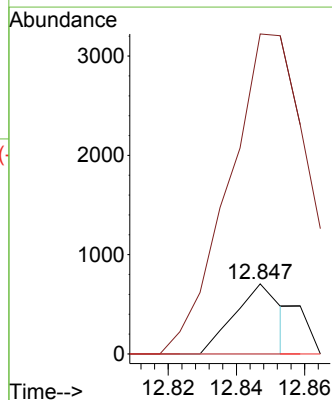
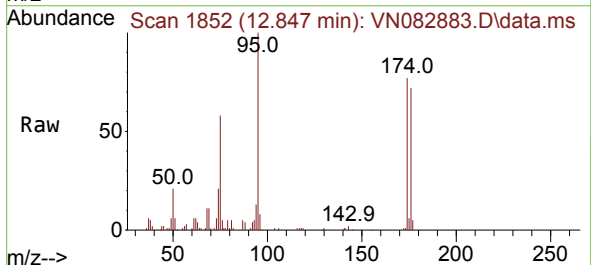
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-196-EB-20240709

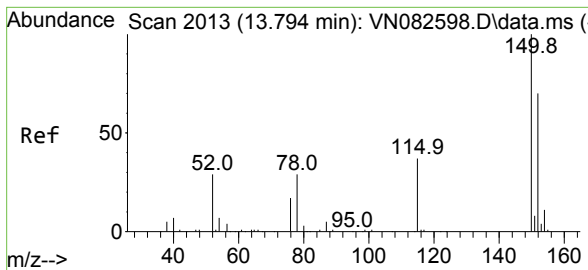
Tgt Ion:117 Resp: 223403  
Ion Ratio Lower Upper  
117 100  
82 57.3 47.5 71.3  
119 33.1 25.6 38.4



#71  
Bromoform  
Concen: 0.496 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN082883.D  
Acq: 11 Jul 2024 17:57

Tgt Ion:173 Resp: 664  
Ion Ratio Lower Upper  
173 100  
175 697.7 24.0 72.0#  
254 0.0 0.0 0.0

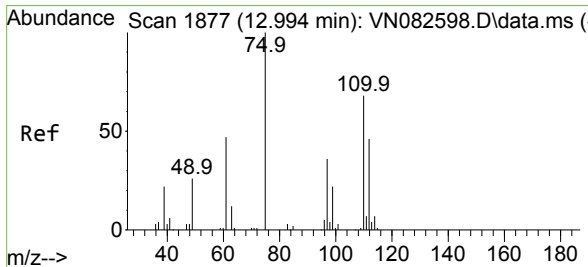
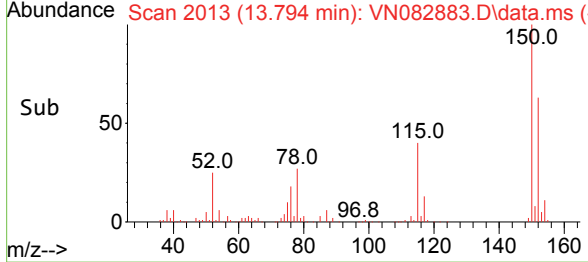
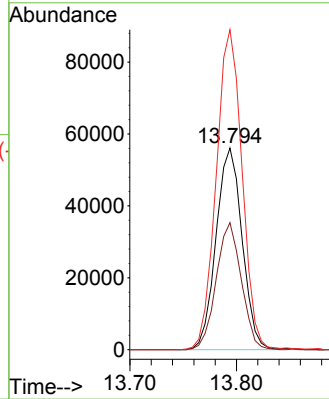
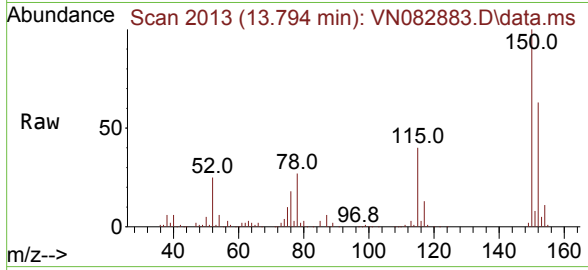




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 2013  
 Delta R.T. -0.000 min  
 Lab File: VN082883.D  
 Acq: 11 Jul 2024 17:57

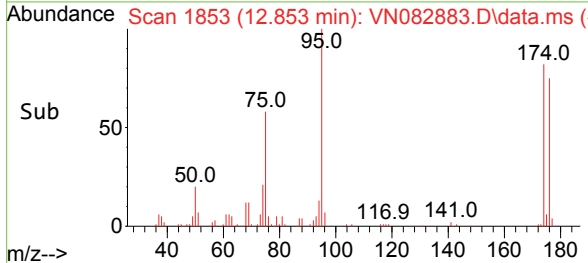
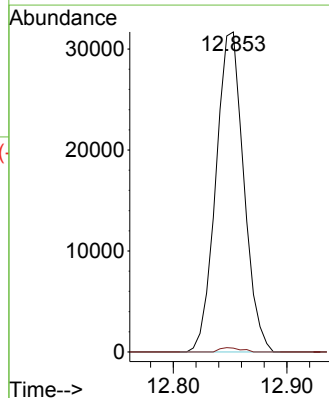
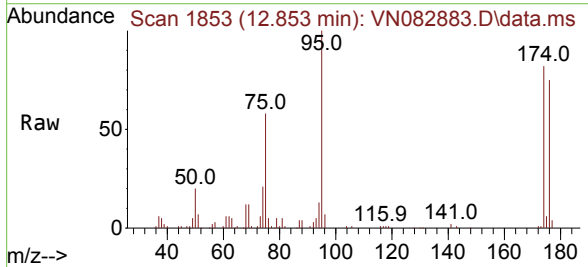
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-196-EB-20240709

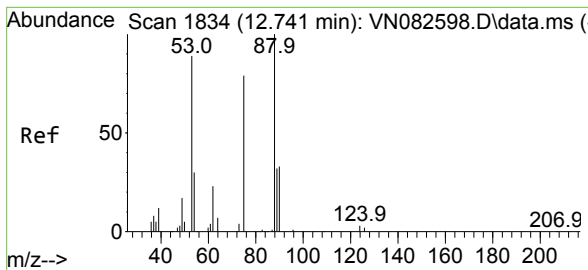
Tgt Ion:152 Resp: 95298  
 Ion Ratio Lower Upper  
 152 100  
 115 60.5 30.6 91.6  
 150 157.8 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 32.875 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.141 min  
 Lab File: VN082883.D  
 Acq: 11 Jul 2024 17:57

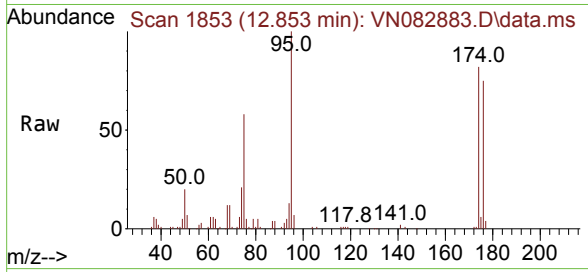
Tgt Ion: 75 Resp: 54013  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 110.9 332.6#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.655 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN082883.D  
 Acq: 11 Jul 2024 17:57

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-196-EB-20240709



Tgt Ion: 75 Resp: 54013  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 88.4 132.6#  
 89 0.0 36.3 54.5#

