

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021524\  
 Data File : VN081037.D  
 Acq On : 15 Feb 2024 14:01  
 Operator : JC\MD  
 Sample : VN0215MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0215MBL01

Quant Time: Feb 16 00:24:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021424W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 15 07:59:19 2024  
 Response via : Initial Calibration

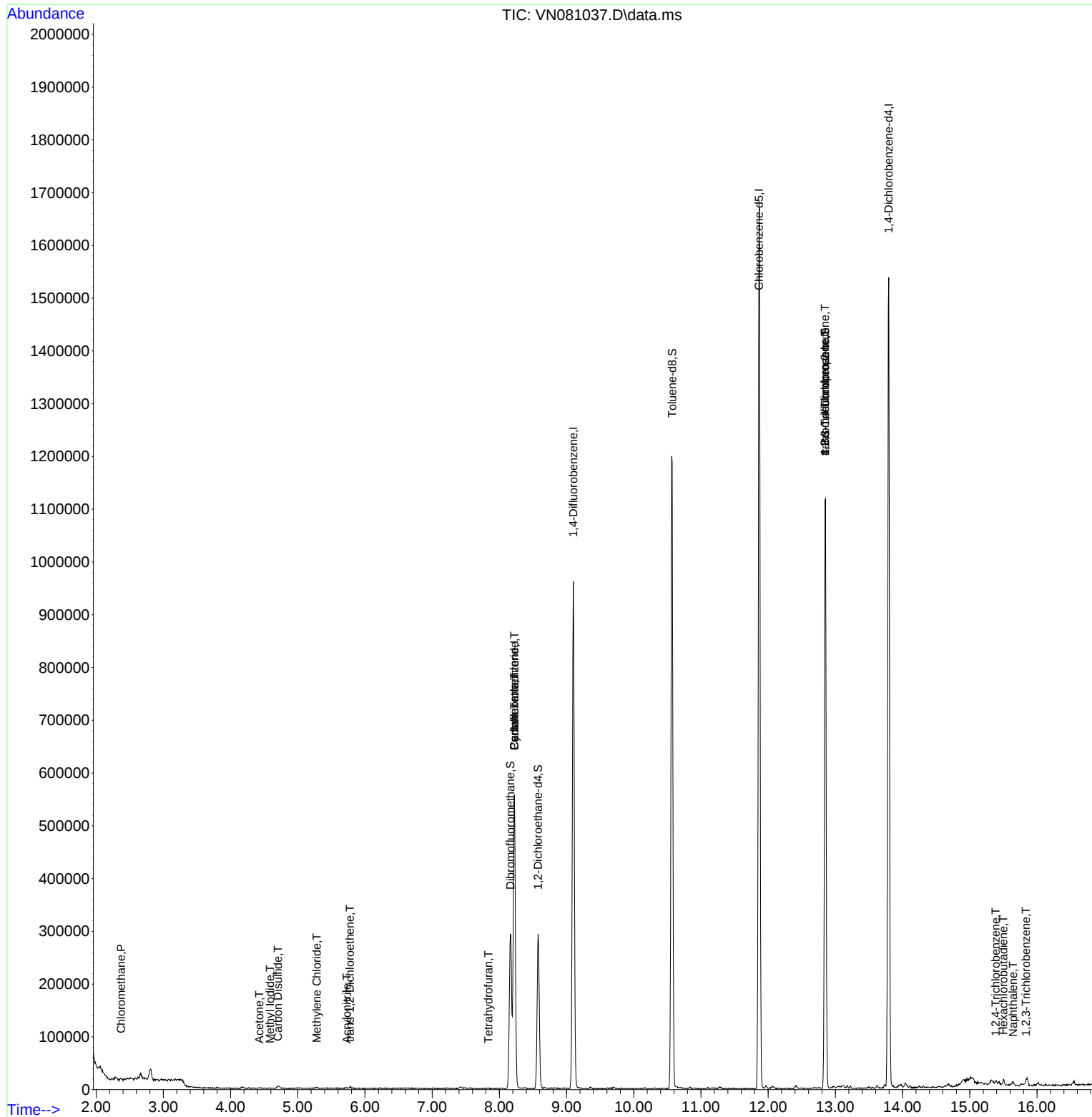
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 391295     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 816985     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 962705     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 403228     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 236028     | 49.040    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 98.080%   |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 210081     | 44.849    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 89.700%   |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 836004     | 50.606    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 101.220%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 393944     | 70.116    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 140.240%# |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.371          | 50   | 7292       | 1.010     | ug/l # | 85       |
| 10) Methyl Iodide             | 4.589          | 142  | 1409       | 0.317     | ug/l # | 69       |
| 13) Acrolein                  | 4.165          | 56   | 3190       | Below Cal | #      | 75       |
| 15) Acrylonitrile             | 5.730          | 53   | 1572       | 0.711     | ug/l # | 62       |
| 16) Acetone                   | 4.430          | 43   | 2649       | 1.406     | ug/l # | 44       |
| 17) Carbon Disulfide          | 4.706          | 76   | 10450      | 0.846     | ug/l   | 97       |
| 20) Methylene Chloride        | 5.283          | 84   | 1429       | 0.291     | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene  | 5.777          | 96   | 1713       | 0.365     | ug/l # | 76       |
| 29) Tetrahydrofuran           | 7.836          | 42   | 486        | 0.247     | ug/l # | 74       |
| 31) Cyclohexane               | 8.224          | 56   | 10491      | 1.255     | ug/l # | 1        |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 41620      | 7.275     | ug/l # | 18       |
| 49) 1,4-Dioxane               | 9.694          | 88   | 1025       | Below Cal | #      | 75       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 214075     | 24.027    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 214075     | 55.932    | ug/l # | 14       |
| 90) Hexachloroethane          | 14.353         | 117  | 92         | Below Cal |        | 90       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.706         | 75   | 197        | Below Cal | #      | 13       |
| 93) 1,2,4-Trichlorobenzene    | 15.388         | 180  | 2518       | 0.309     | ug/l   | 92       |
| 94) Hexachlorobutadiene       | 15.500         | 225  | 2005       | 0.595     | ug/l   | 83       |
| 95) Naphthalene               | 15.647         | 128  | 8529       | 0.294     | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.835         | 180  | 2528       | 0.317     | ug/l   | 76       |
| -----                         |                |      |            |           |        |          |

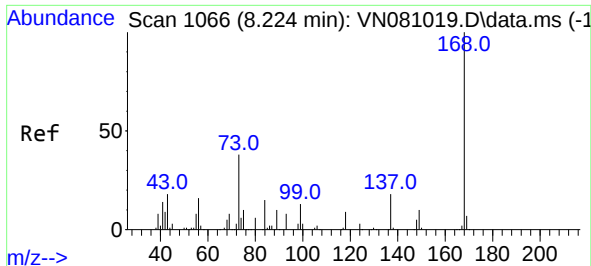
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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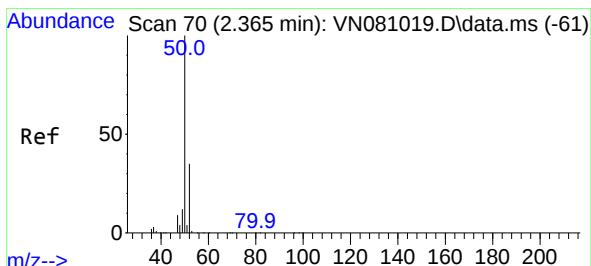
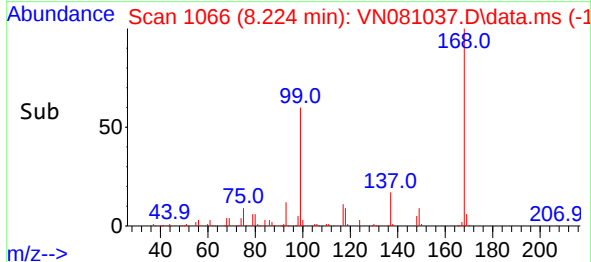
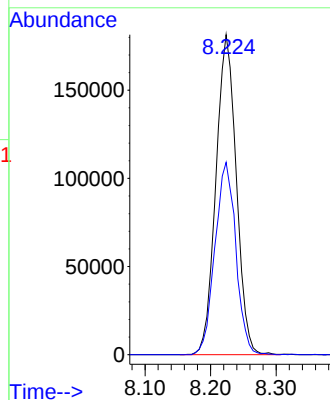
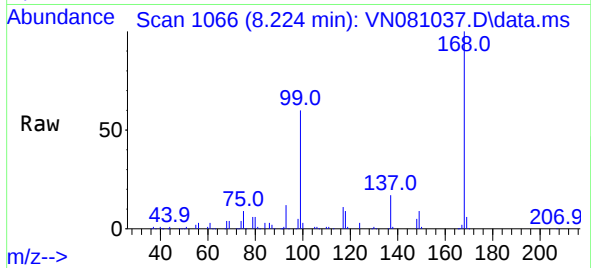




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

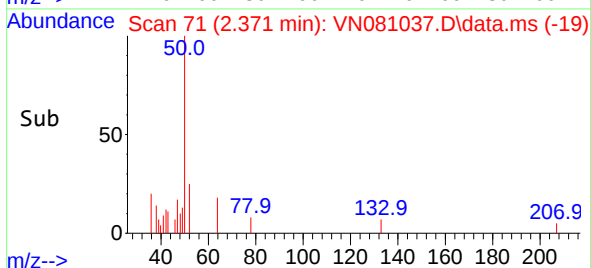
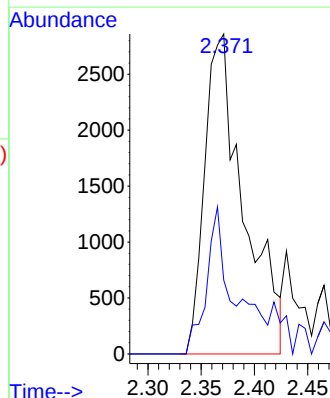
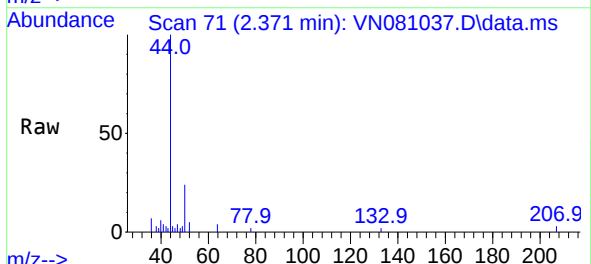
Instrument :  
MSVOA\_N  
ClientSampleId :  
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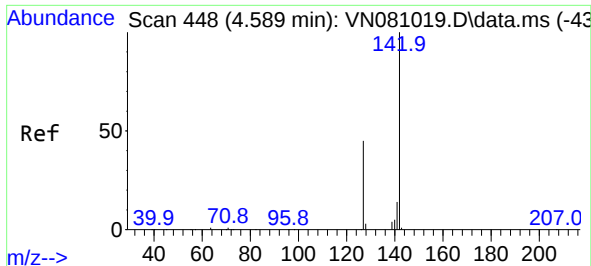
Tgt Ion:168 Resp: 391295  
Ion Ratio Lower Upper  
168 100  
99 60.1 59.9 89.9



#3  
Chloromethane  
Concen: 1.010 ug/l  
RT: 2.371 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 50 Resp: 7292  
Ion Ratio Lower Upper  
50 100  
52 23.1 25.0 37.4#

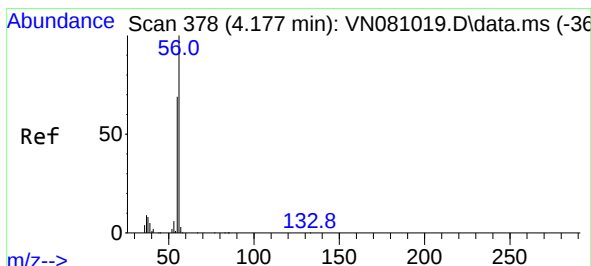
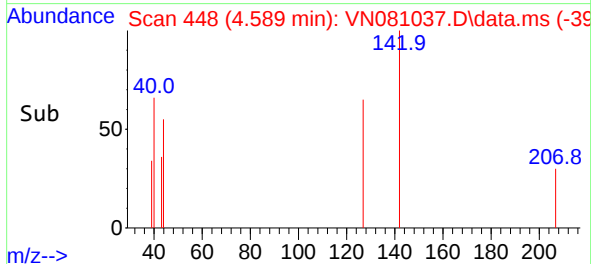
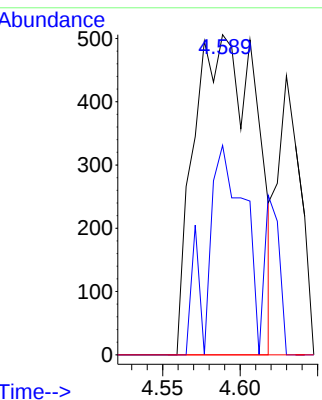
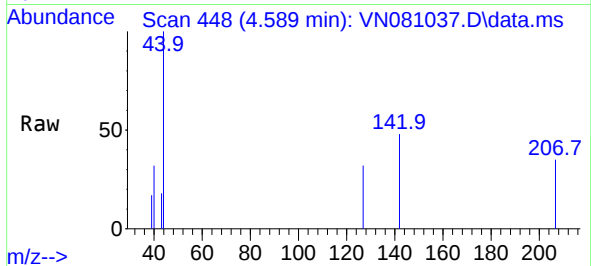




#10  
Methyl Iodide  
Concen: 0.317 ug/l  
RT: 4.589 min Scan# 448  
Delta R.T. 0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

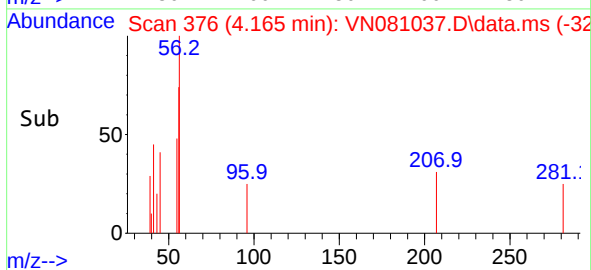
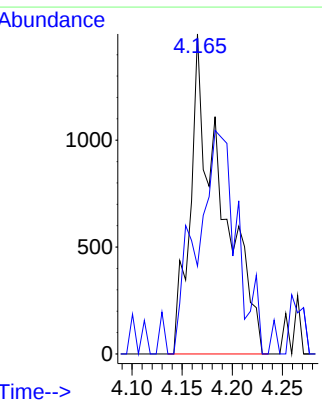
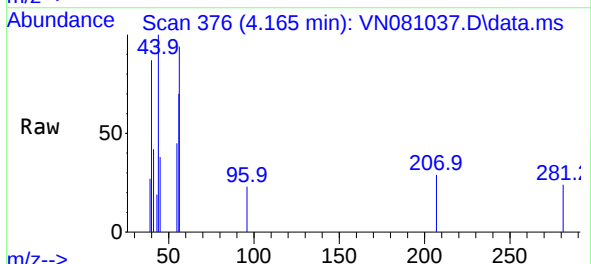
Instrument :  
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ClientSampleId :  
VN0215MBL01

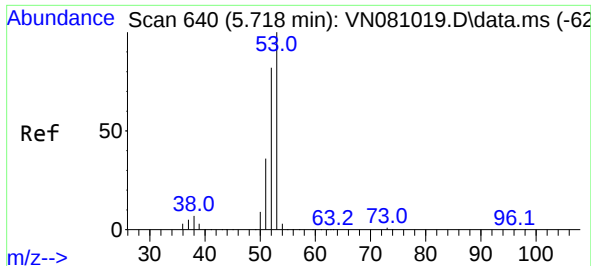
Tgt Ion:142 Resp: 1409  
Ion Ratio Lower Upper  
142 100  
127 65.4 37.0 55.4#  
141 0.0 12.5 18.7#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.165 min Scan# 376  
Delta R.T. -0.012 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 56 Resp: 3190  
Ion Ratio Lower Upper  
56 100  
55 89.7 55.3 82.9#

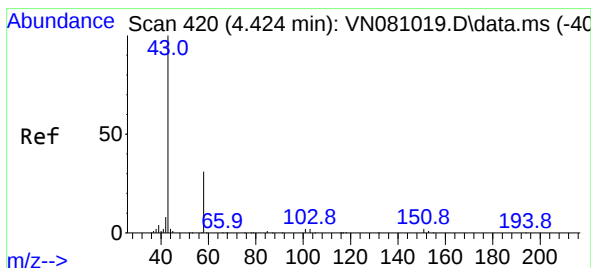
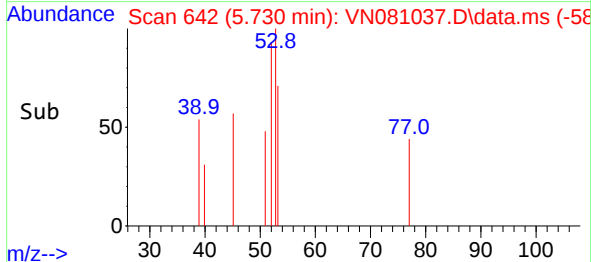
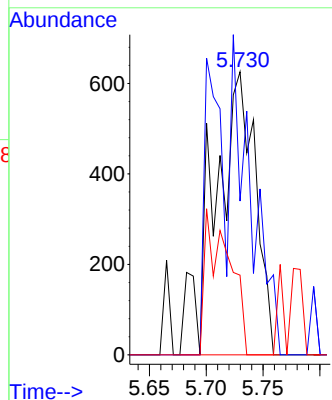
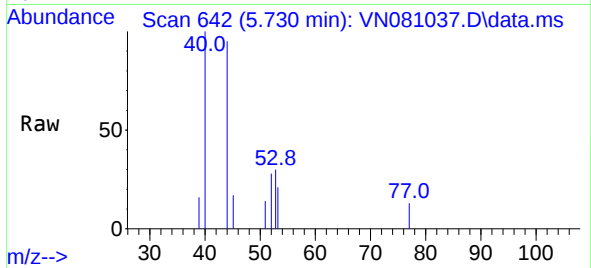




#15  
Acrylonitrile  
Concen: 0.711 ug/l  
RT: 5.730 min Scan# 641  
Delta R.T. 0.012 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

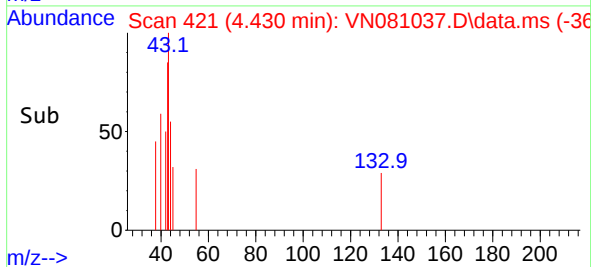
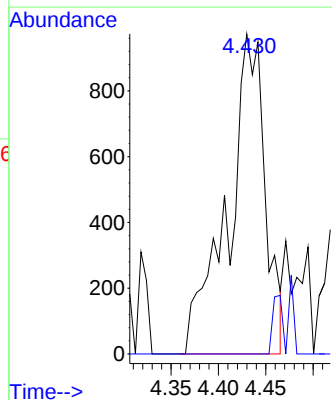
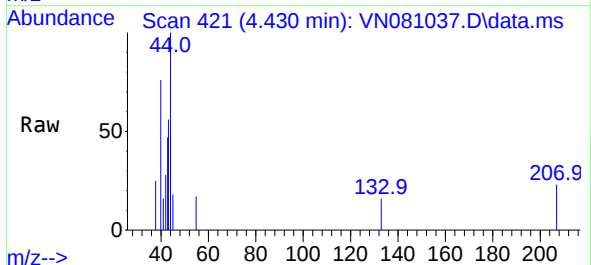
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ClientSampleId :  
VN0215MBL01

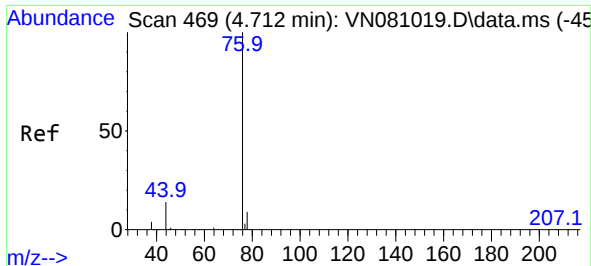
Tgt Ion: 53 Resp: 1572  
Ion Ratio Lower Upper  
53 100  
52 55.4 64.8 97.2#  
51 0.0 26.9 40.3#



#16  
Acetone  
Concen: 1.406 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.006 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 43 Resp: 2649  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.8 37.2#

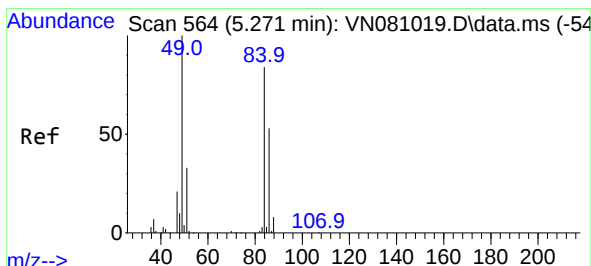
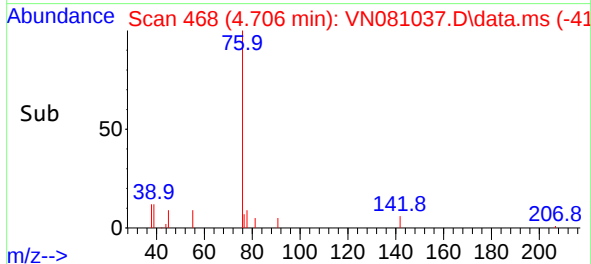
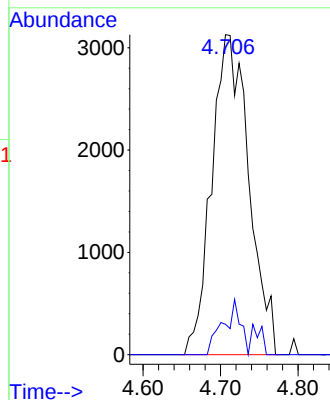
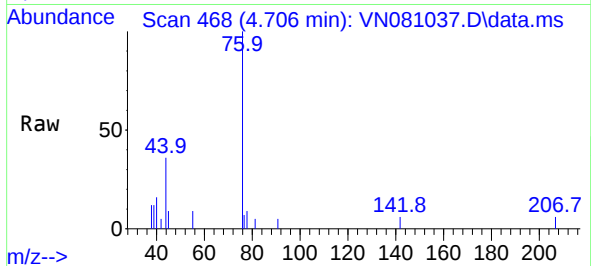




#17  
Carbon Disulfide  
Concen: 0.846 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. -0.006 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

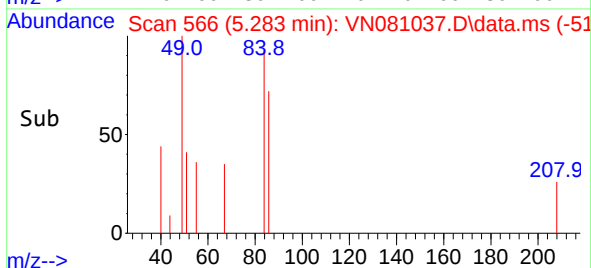
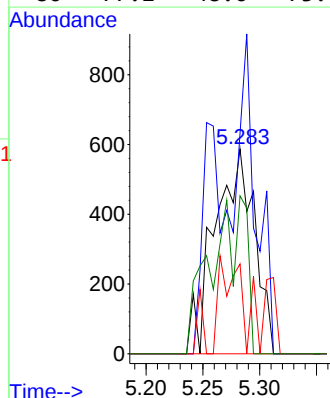
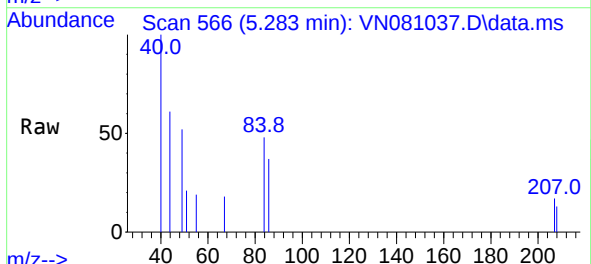
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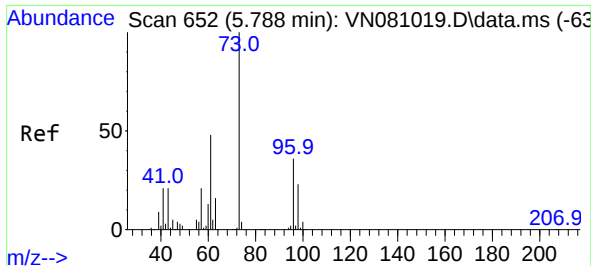
Tgt Ion: 76 Resp: 10450  
Ion Ratio Lower Upper  
76 100  
78 8.9 6.3 9.5



#20  
Methylene Chloride  
Concen: 0.291 ug/l  
RT: 5.283 min Scan# 566  
Delta R.T. 0.012 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

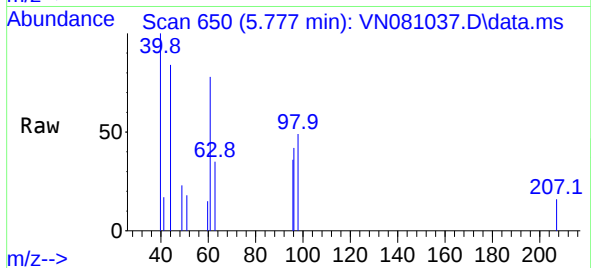
Tgt Ion: 84 Resp: 1429  
Ion Ratio Lower Upper  
84 100  
49 107.7 108.1 162.1#  
51 44.0 32.9 49.3  
86 77.2 48.6 73.0#



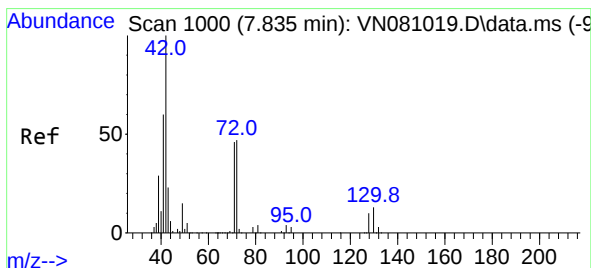
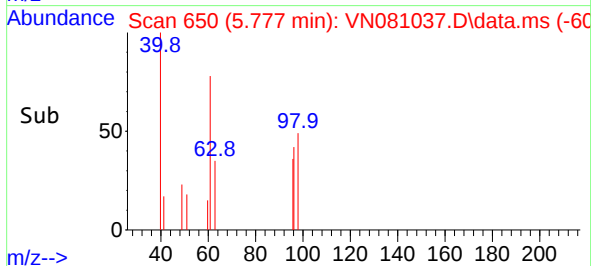
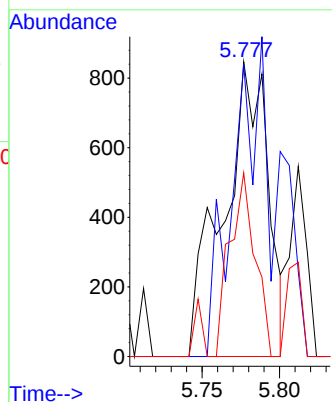


#21  
trans-1,2-Dichloroethene  
Concen: 0.365 ug/l  
RT: 5.777 min Scan# 61  
Delta R.T. -0.012 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0215MBL01

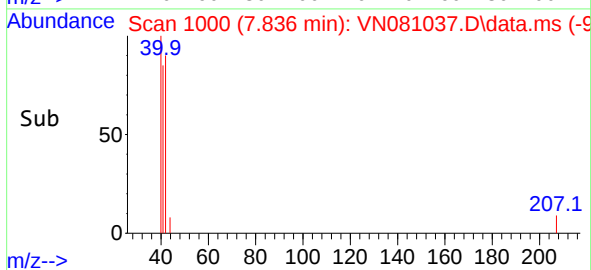
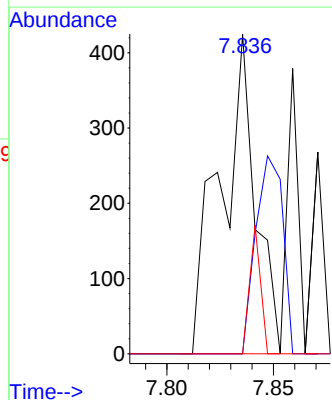
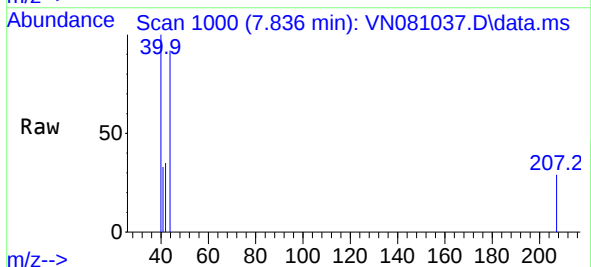


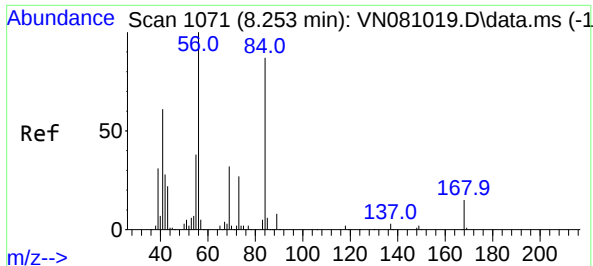
Tgt Ion: 96 Resp: 1713  
Ion Ratio Lower Upper  
96 100  
61 99.2 112.8 169.2#  
98 62.3 51.0 76.4



#29  
Tetrahydrofuran  
Concen: 0.247 ug/l  
RT: 7.836 min Scan# 1000  
Delta R.T. 0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

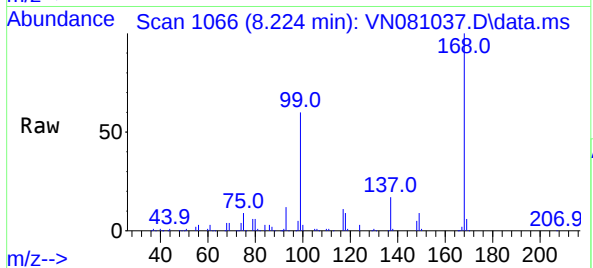
Tgt Ion: 42 Resp: 486  
Ion Ratio Lower Upper  
42 100  
72 47.5 31.1 46.7#  
71 12.3 28.3 42.5#



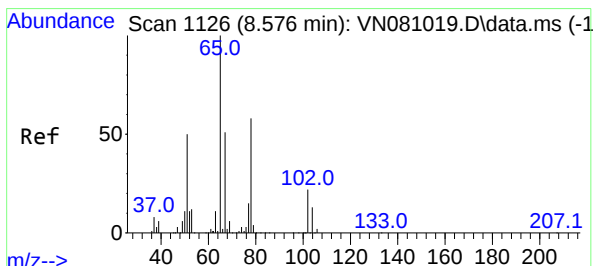
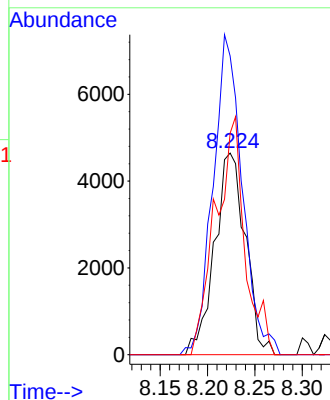
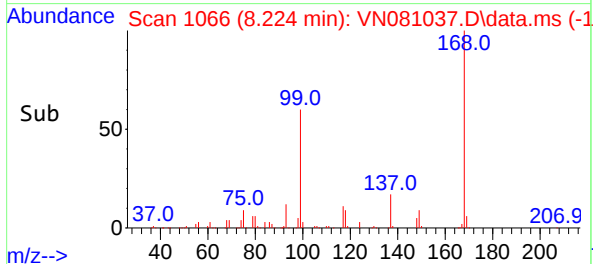


#31  
Cyclohexane  
Concen: 1.255 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

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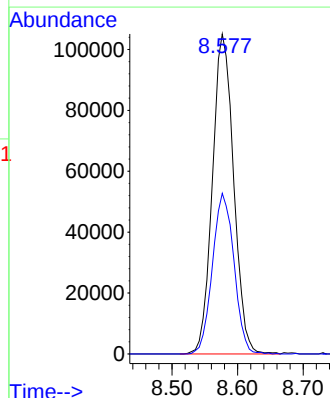
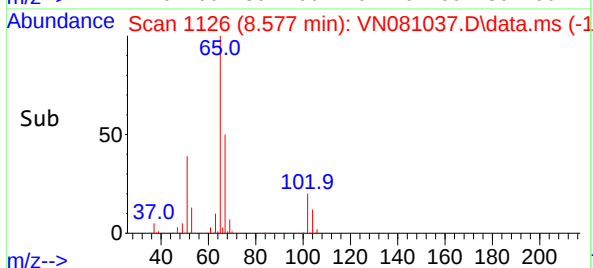
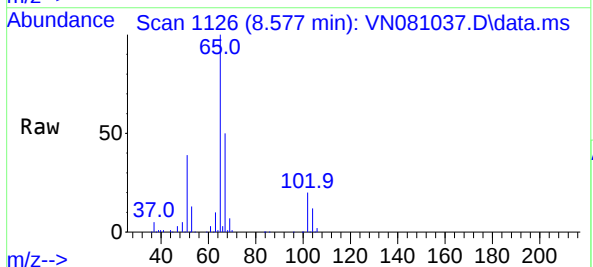


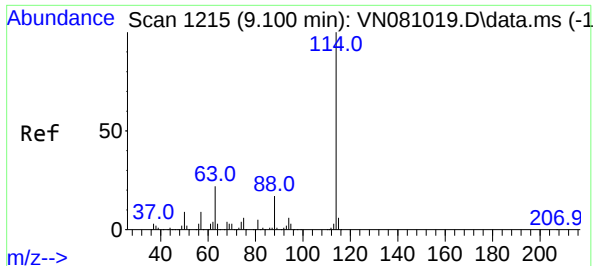
Tgt Ion: 56 Resp: 10491  
Ion Ratio Lower Upper  
56 100  
69 148.1 20.1 30.1#  
84 109.9 56.9 85.3#



#33  
1,2-Dichloroethane-d4  
Concen: 49.040 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 65 Resp: 236028  
Ion Ratio Lower Upper  
65 100  
67 51.0 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN081037.D

Acq: 15 Feb 2024 14:01

Instrument :

MSVOA\_N

ClientSampleId :

VN0215MBL01

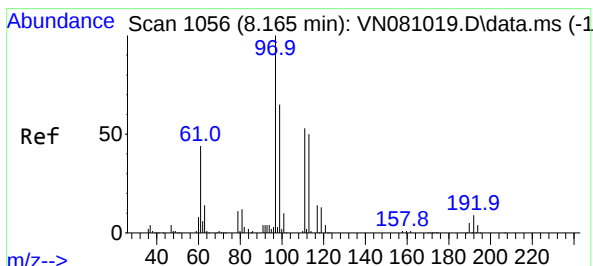
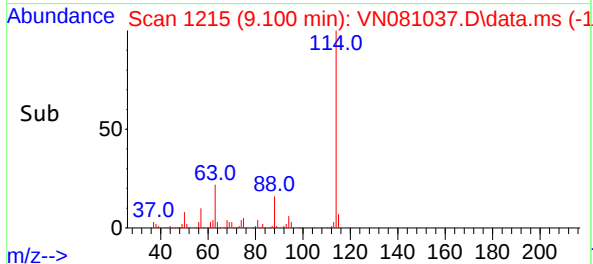
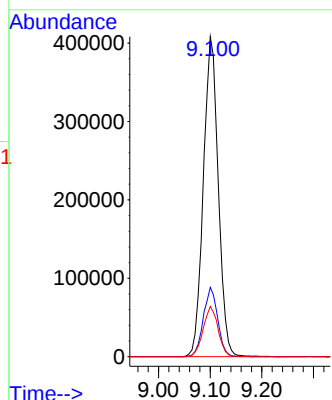
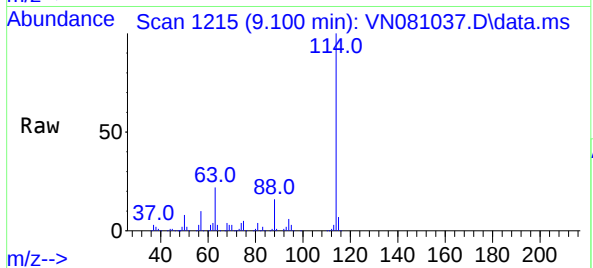
Tgt Ion:114 Resp: 816985

Ion Ratio Lower Upper

114 100

63 21.6 0.0 48.0

88 15.7 0.0 34.8



#35

Dibromofluoromethane

Concen: 44.849 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN081037.D

Acq: 15 Feb 2024 14:01

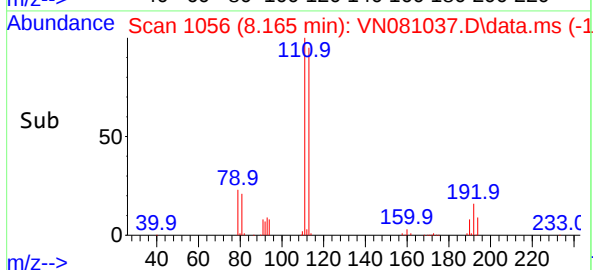
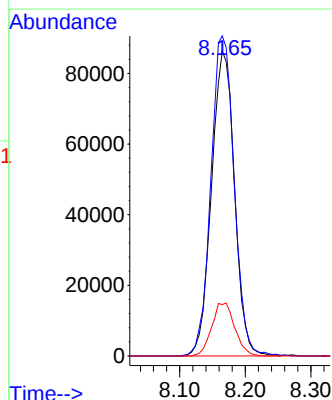
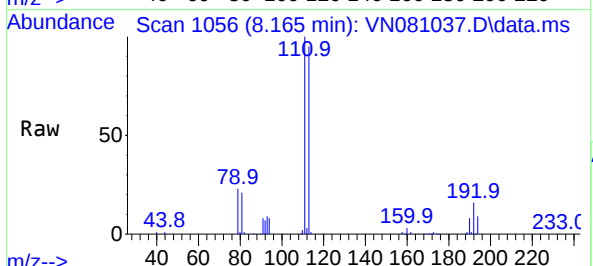
Tgt Ion:113 Resp: 210081

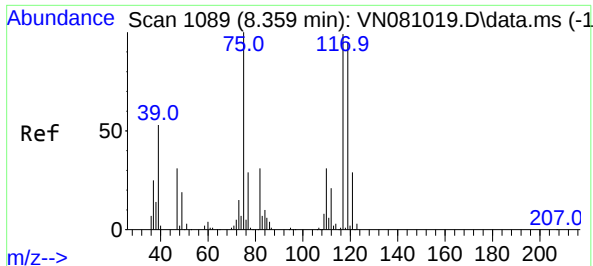
Ion Ratio Lower Upper

113 100

111 106.4 82.2 123.4

192 17.4 12.5 18.7

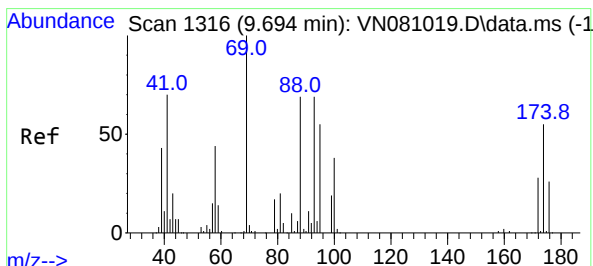
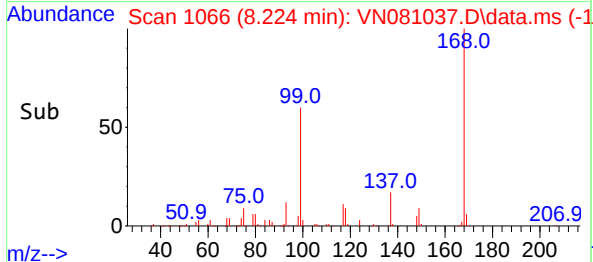
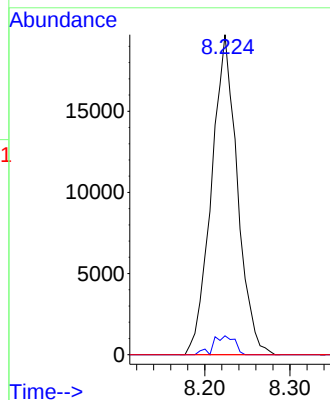
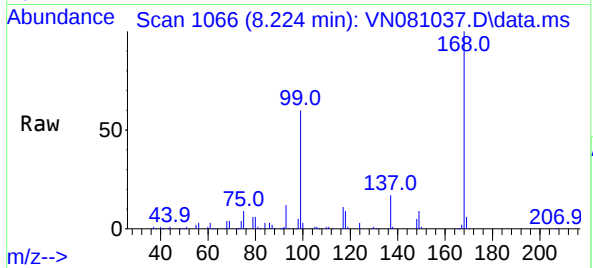




#38  
Carbon Tetrachloride  
Concen: 7.275 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

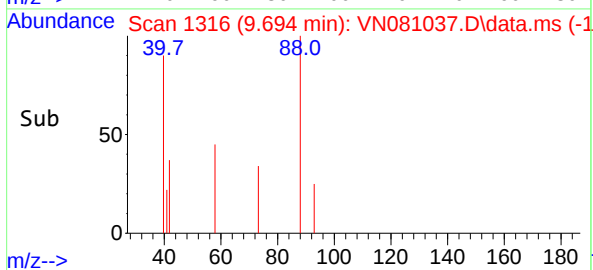
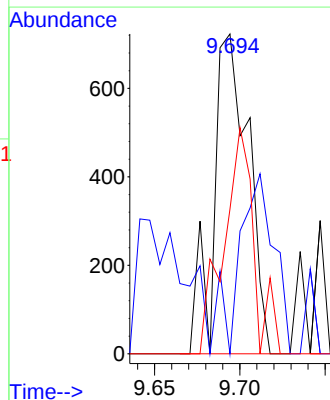
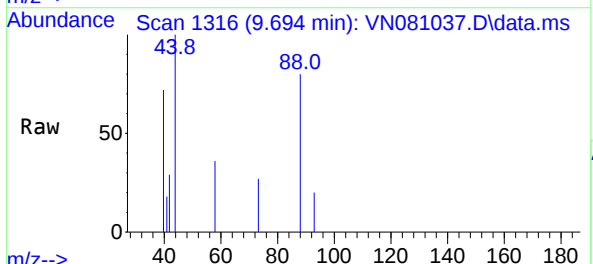
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0215MBL01

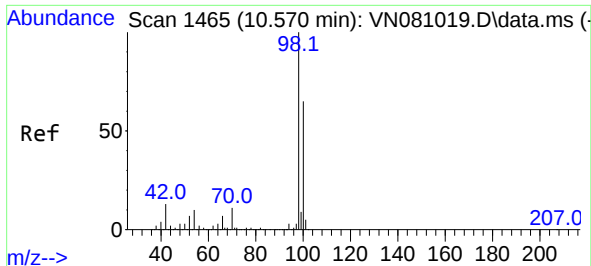
Tgt Ion:117 Resp: 41620  
Ion Ratio Lower Upper  
117 100  
119 5.9 73.4 110.2#  
121 0.0 24.4 36.6#



#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 9.694 min Scan# 1316  
Delta R.T. 0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 88 Resp: 1025  
Ion Ratio Lower Upper  
88 100  
43 57.7 30.1 45.1#  
58 61.4 63.9 95.9#

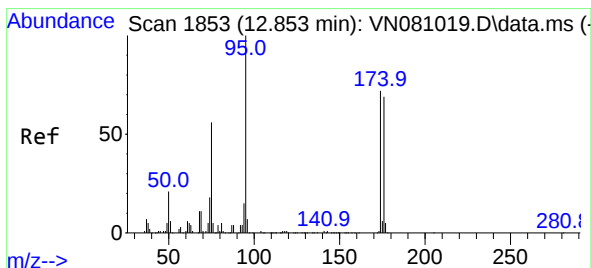
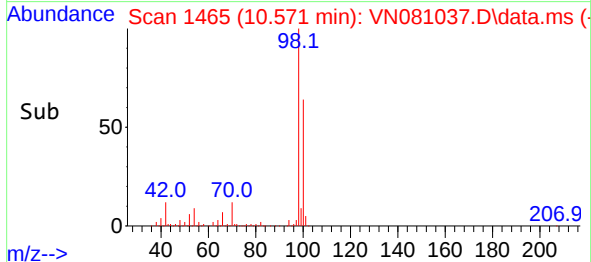
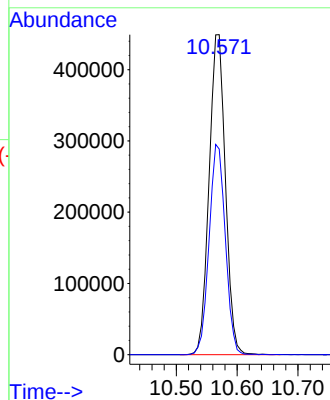
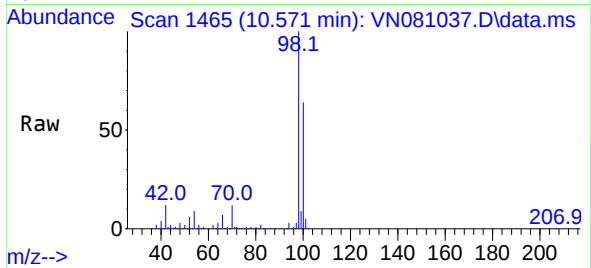




#50  
Toluene-d8  
Concen: 50.606 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

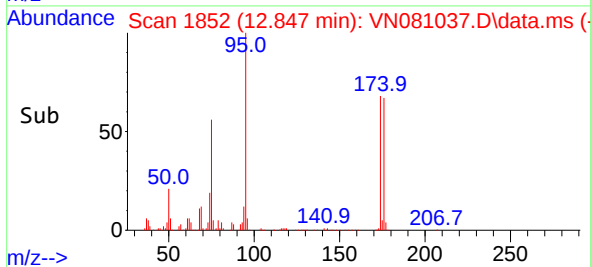
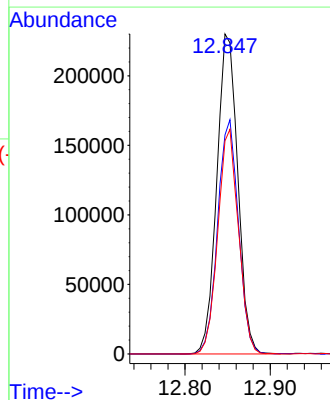
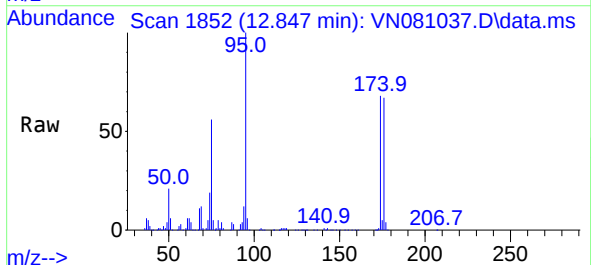
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0215MBL01

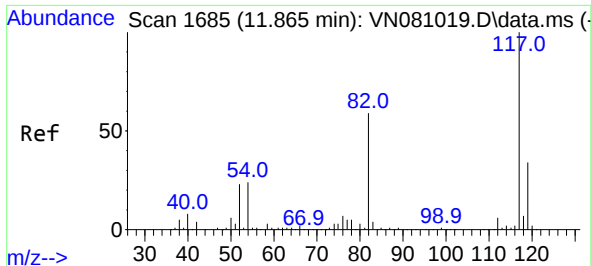
Tgt Ion: 98 Resp: 836004  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.4 77.0



#62  
4-Bromofluorobenzene  
Concen: 70.116 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.006 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 95 Resp: 393944  
Ion Ratio Lower Upper  
95 100  
174 72.5 0.0 120.4  
176 68.9 0.0 121.0

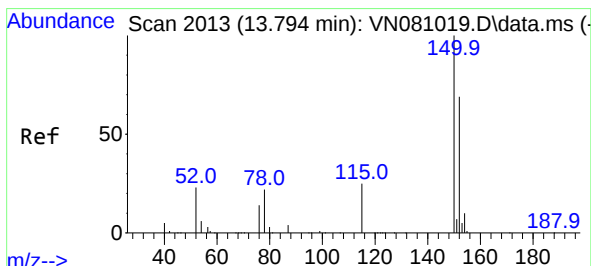
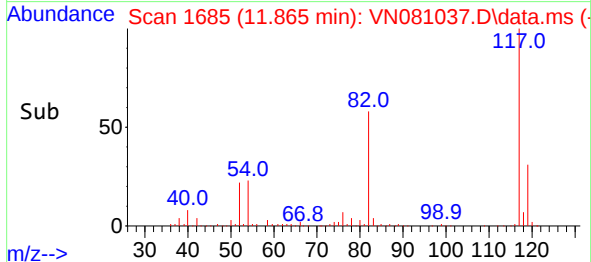
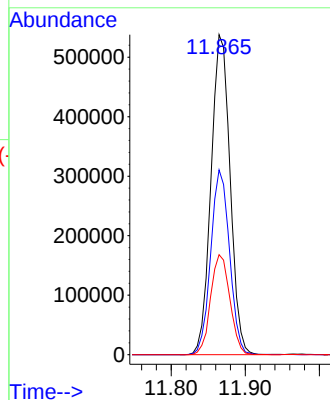
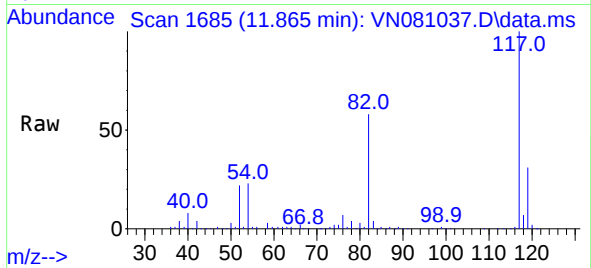




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

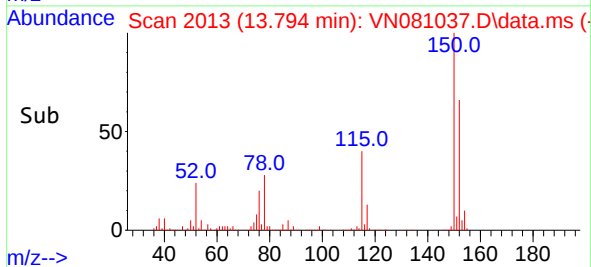
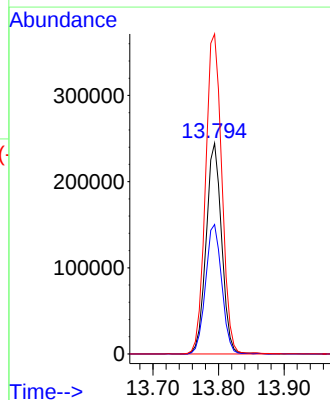
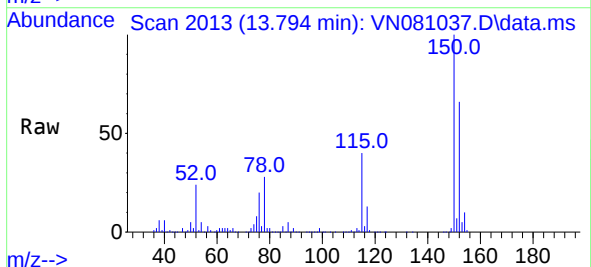
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0215MBL01

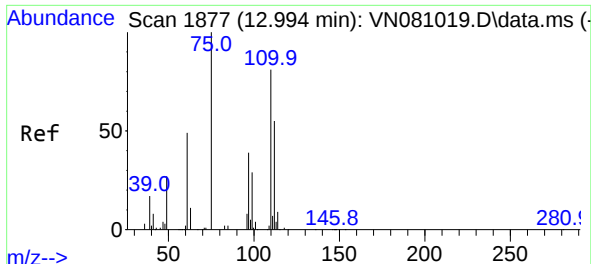
Tgt Ion:117 Resp: 962705  
Ion Ratio Lower Upper  
117 100  
82 57.8 52.7 79.1  
119 31.2 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.000 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion:152 Resp: 403228  
Ion Ratio Lower Upper  
152 100  
115 64.1 32.3 96.8  
150 159.0 0.0 339.8

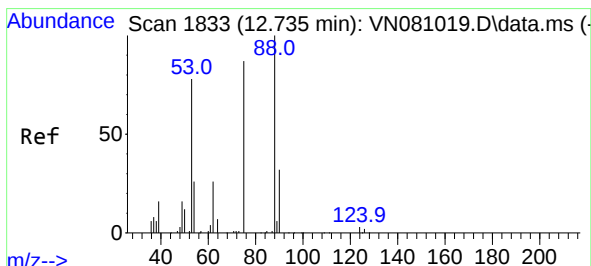
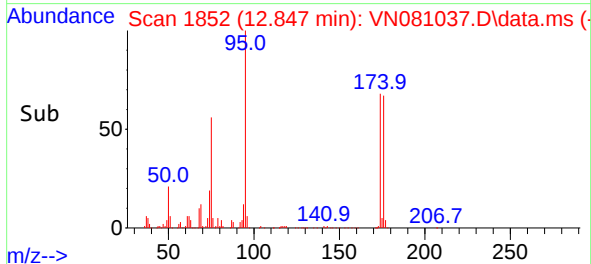
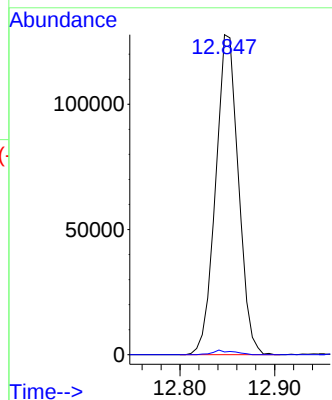
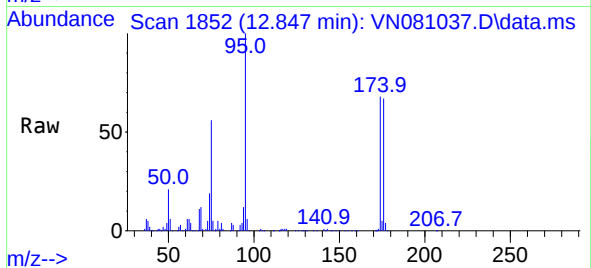




#76  
1,2,3-Trichloropropane  
Concen: 24.027 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

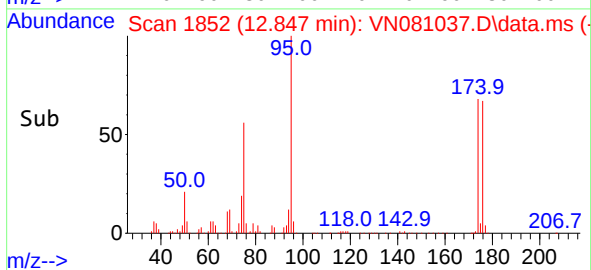
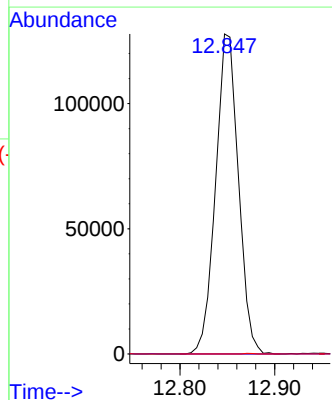
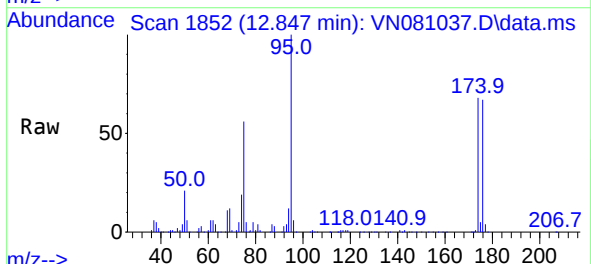
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0215MBL01

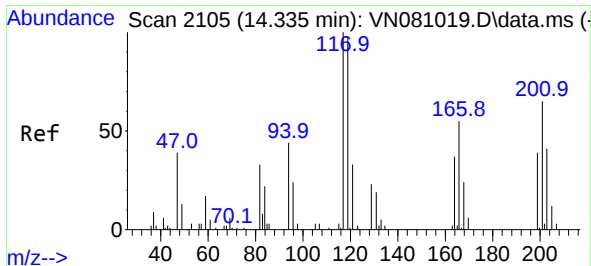
Tgt Ion: 75 Resp: 214075  
Ion Ratio Lower Upper  
75 100  
77 1.3 91.0 272.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.932 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 75 Resp: 214075  
Ion Ratio Lower Upper  
75 100  
53 0.0 71.4 107.2#  
89 0.0 33.4 50.0#

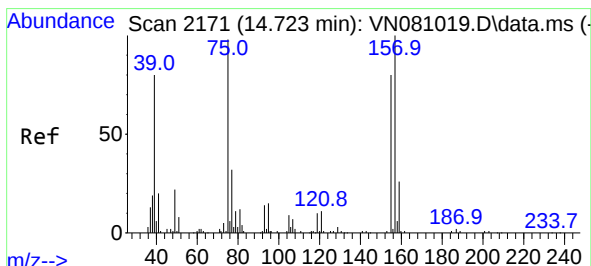
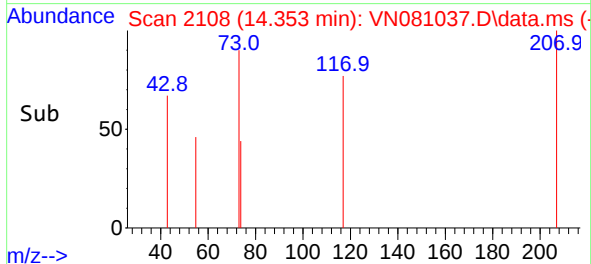
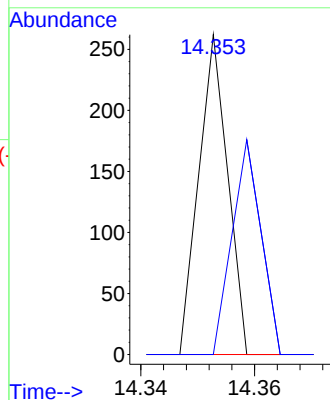
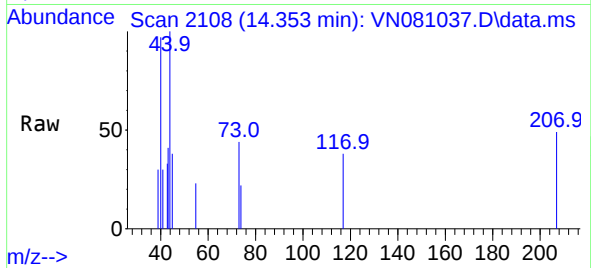




#90  
Hexachloroethane  
Concen: Below Cal  
RT: 14.353 min Scan# 2105  
Delta R.T. 0.018 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

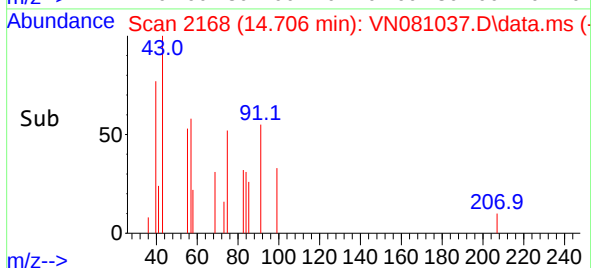
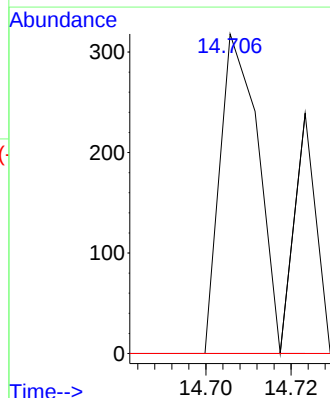
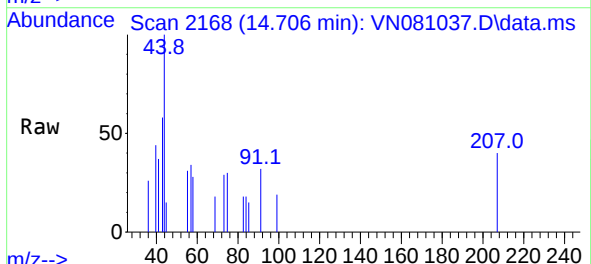
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0215MBL01

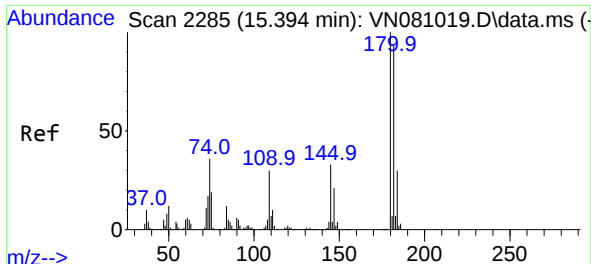
Tgt Ion:117 Resp: 92  
Ion Ratio Lower Upper  
117 100  
201 67.4 30.0 90.0



#92  
1,2-Dibromo-3-Chloropropane  
Concen: Below Cal  
RT: 14.706 min Scan# 2168  
Delta R.T. -0.017 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion: 75 Resp: 197  
Ion Ratio Lower Upper  
75 100  
155 0.0 31.8 95.4#  
157 0.0 41.1 123.4#





#93

1,2,4-Trichlorobenzene

Concen: 0.309 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN081037.D

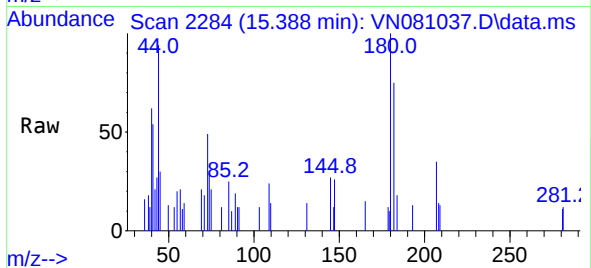
Acq: 15 Feb 2024 14:01

Instrument :

MSVOA\_N

ClientSampleId :

VN0215MBL01



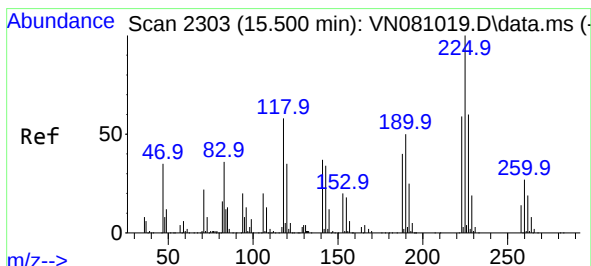
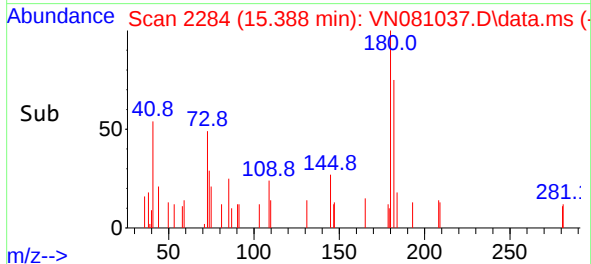
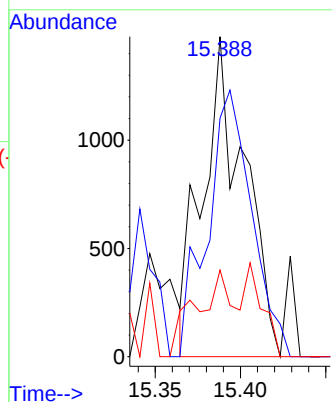
Tgt Ion:180 Resp: 2518

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 180 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |       |
|-----|------|------|-------|
| 182 | 88.7 | 46.6 | 139.7 |
|-----|------|------|-------|

|     |      |      |      |
|-----|------|------|------|
| 145 | 24.5 | 16.8 | 50.3 |
|-----|------|------|------|



#94

Hexachlorobutadiene

Concen: 0.595 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN081037.D

Acq: 15 Feb 2024 14:01

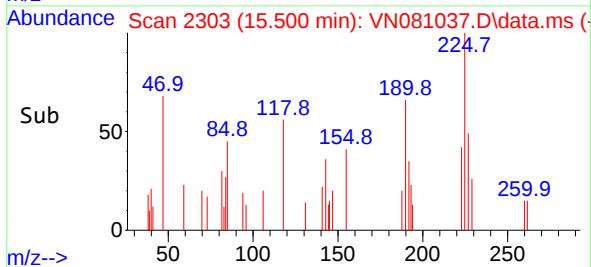
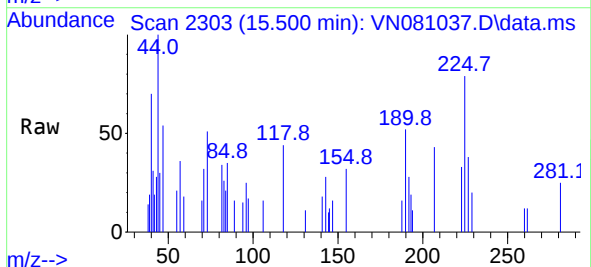
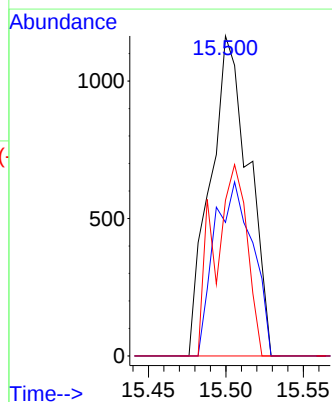
Tgt Ion:225 Resp: 2005

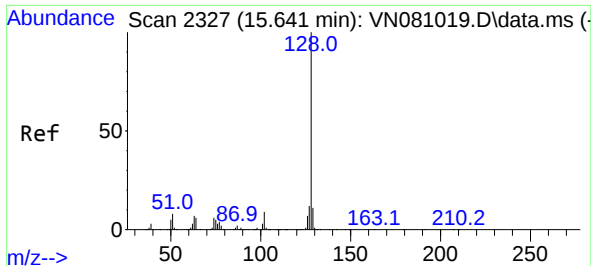
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 225 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 223 | 54.3 | 33.3 | 99.8 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 227 | 50.6 | 33.1 | 99.2 |
|-----|------|------|------|

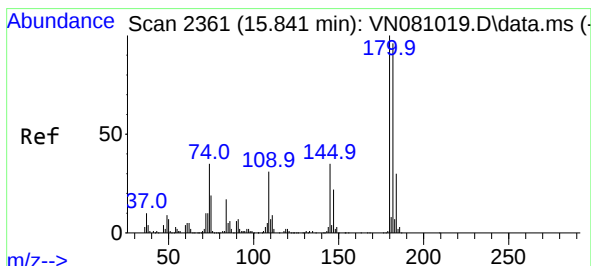
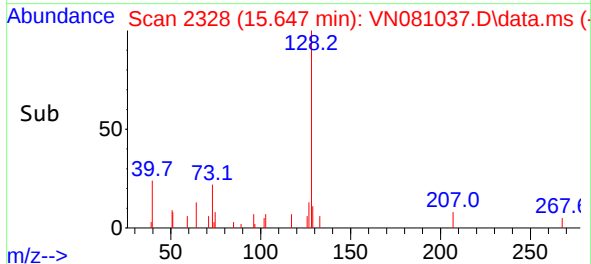
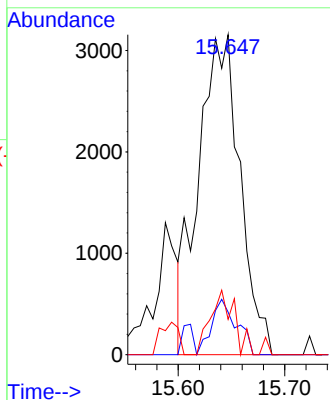
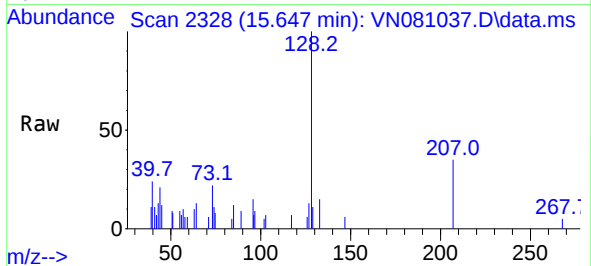




#95  
Naphthalene  
Concen: 0.294 ug/l  
RT: 15.647 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0215MBL01

Tgt Ion:128 Resp: 8529  
Ion Ratio Lower Upper  
128 100  
127 10.4 10.0 15.0  
129 11.7 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 0.317 ug/l  
RT: 15.835 min Scan# 2360  
Delta R.T. -0.006 min  
Lab File: VN081037.D  
Acq: 15 Feb 2024 14:01

Tgt Ion:180 Resp: 2528  
Ion Ratio Lower Upper  
180 100  
182 125.0 46.5 139.3  
145 36.2 17.8 53.4

