

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122023\  
 Data File : VN080539.D  
 Acq On : 20 Dec 2023 11:55  
 Operator : JC\MD  
 Sample : VN1220WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 21 02:39:08 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121223W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 13 01:57:14 2023  
 Response via : Initial Calibration

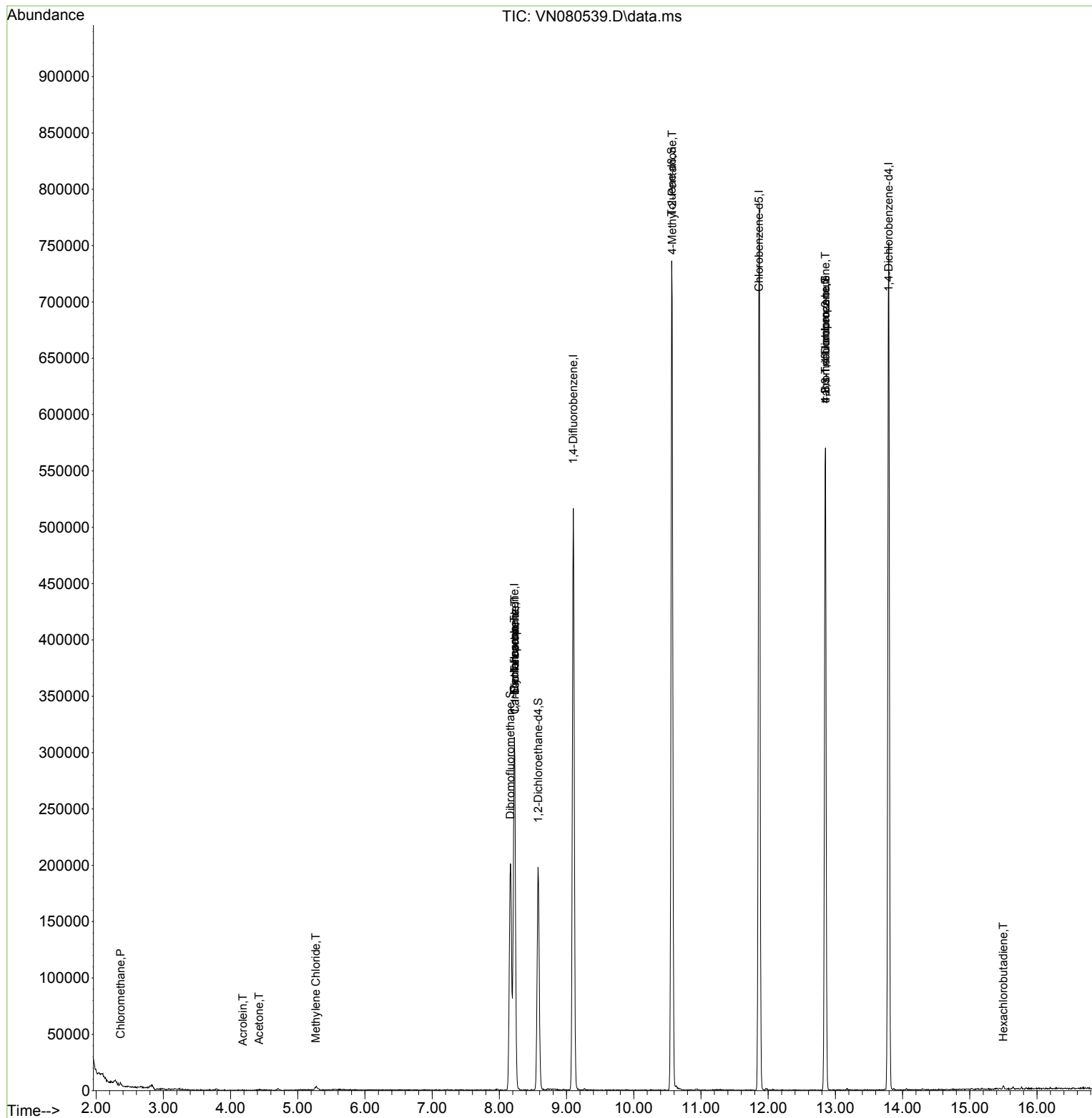
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 224858   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 437296   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 461279   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 204520   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65    | 171276   | 59.638   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 119.280% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 145723   | 52.558   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 105.120% |          |
| 50) Toluene-d8                | 10.565 | 98    | 510447   | 49.364   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 98.720%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 205805   | 52.414   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 104.820% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 2.365  | 50    | 3346     | 0.716    | ug/l #     | 84       |
| 13) Acrolein                  | 4.183  | 56    | 123      | 0.332    | ug/l #     | 16       |
| 16) Acetone                   | 4.424  | 43    | 1372     | 2.694    | ug/l #     | 40       |
| 20) Methylene Chloride        | 5.271  | 84    | 1759     | 0.645    | ug/l #     | 84       |
| 31) Cyclohexane               | 8.224  | 56    | 4628     | 1.185    | ug/l #     | 30       |
| 36) 1,1-Dichloropropene       | 8.229  | 75    | 18515    | 4.084    | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 8.229  | 117   | 24645    | 4.550    | ug/l #     | 19       |
| 51) 4-Methyl-2-Pentanone      | 10.570 | 43    | 2033     | 0.723    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 110212   | 27.012   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 110212   | 70.923   | ug/l #     | 15       |
| 94) Hexachlorobutadiene       | 15.500 | 225   | 793      | 0.371    | ug/l       | 84       |
| -----                         |        |       |          |          |            |          |

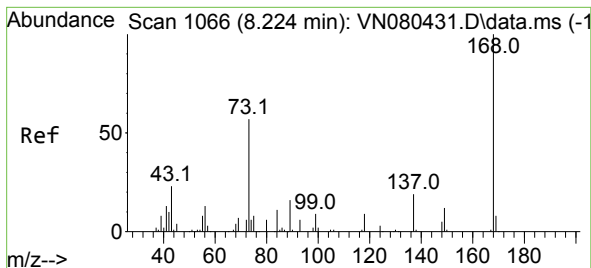
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 21 02:39:08 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121223W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 13 01:57:14 2023  
Response via : Initial Calibration

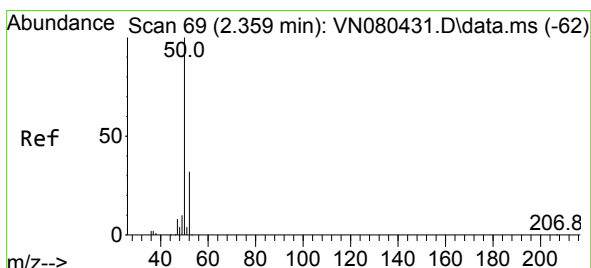
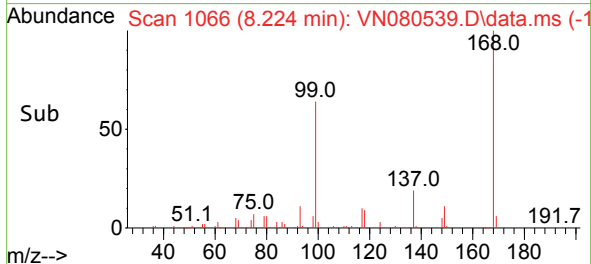
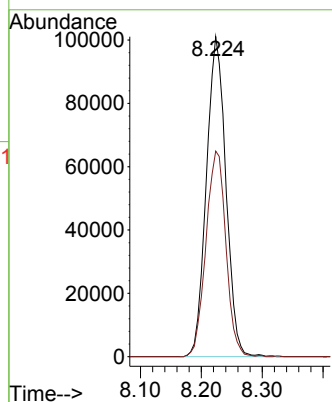
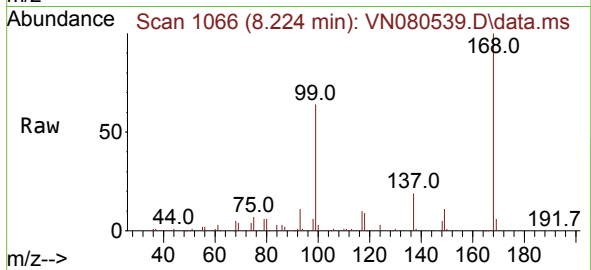




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

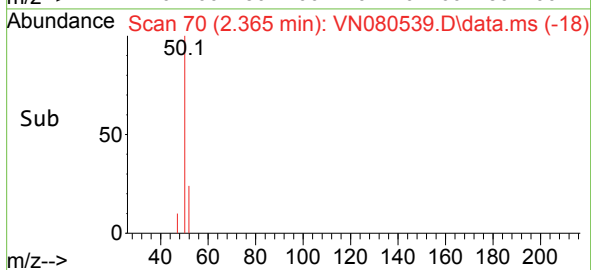
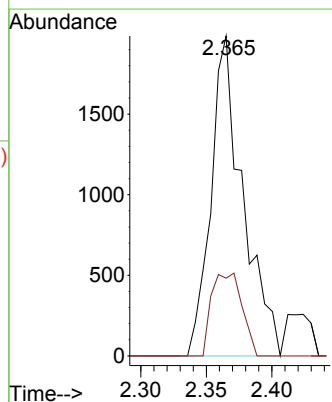
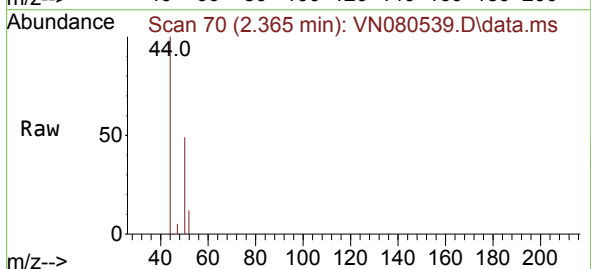
Instrument :  
MSVOA\_N  
ClientSampleId :

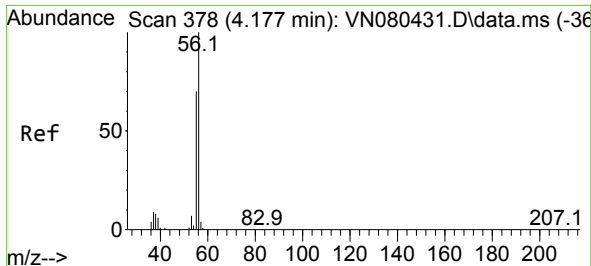
Tgt Ion:168 Resp: 224858  
Ion Ratio Lower Upper  
168 100  
99 64.3 53.0 79.6



#3  
Chloromethane  
Concen: 0.716 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

Tgt Ion: 50 Resp: 3346  
Ion Ratio Lower Upper  
50 100  
52 24.3 26.5 39.7#

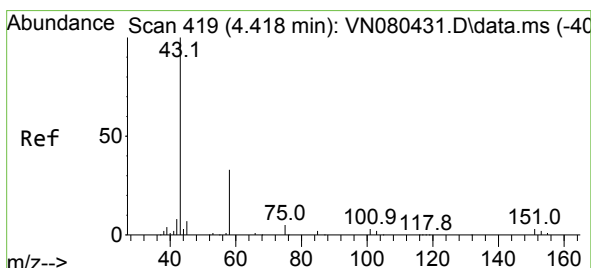
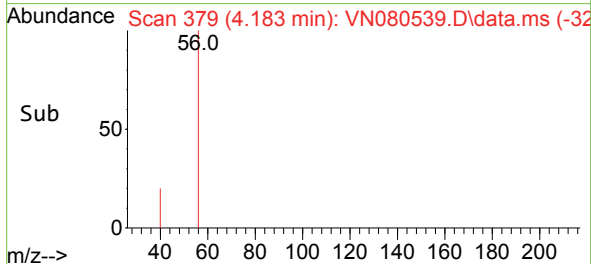
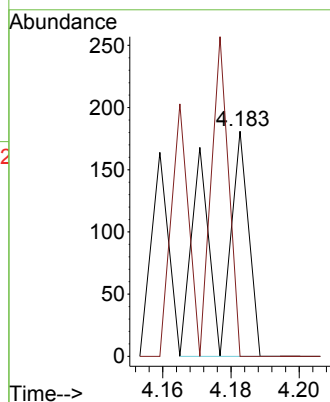
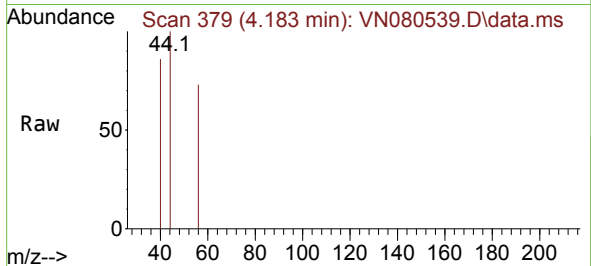




#13  
Acrolein  
Concen: 0.332 ug/l  
RT: 4.183 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

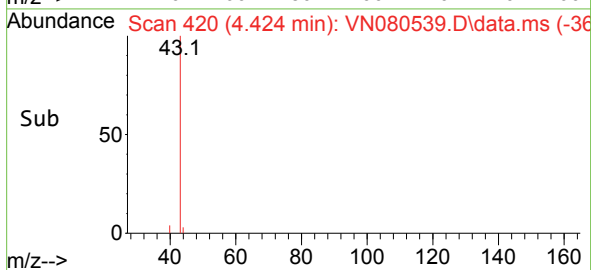
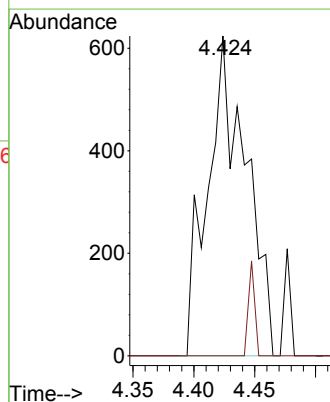
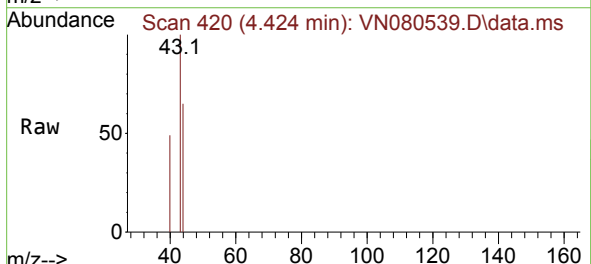
Instrument :  
MSVOA\_N  
ClientSampleId :

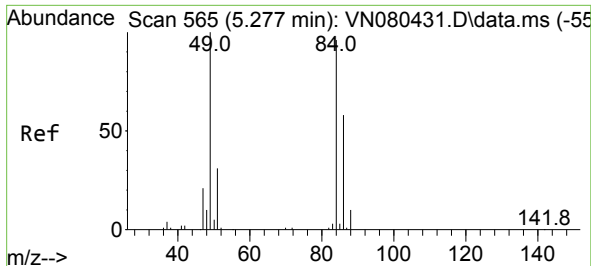
Tgt Ion: 56 Resp: 123  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.5 81.7#



#16  
Acetone  
Concen: 2.694 ug/l  
RT: 4.424 min Scan# 420  
Delta R.T. 0.006 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

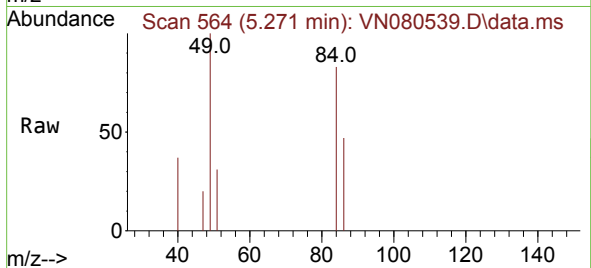
Tgt Ion: 43 Resp: 1372  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#





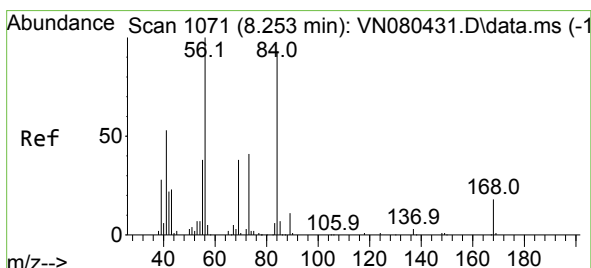
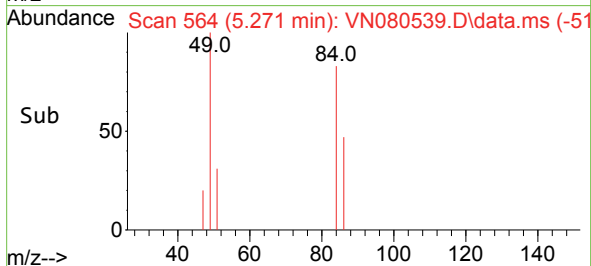
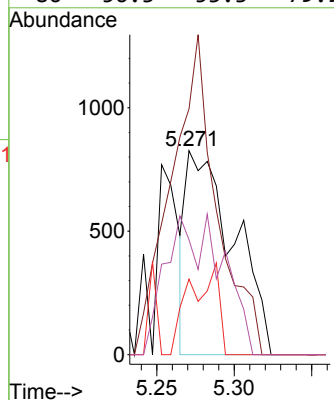
#20  
Methylene Chloride  
Concen: 0.645 ug/l  
RT: 5.271 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 84 Resp: 1759

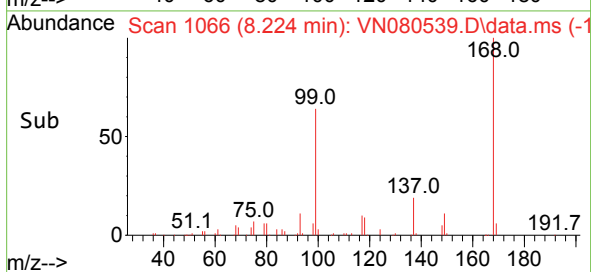
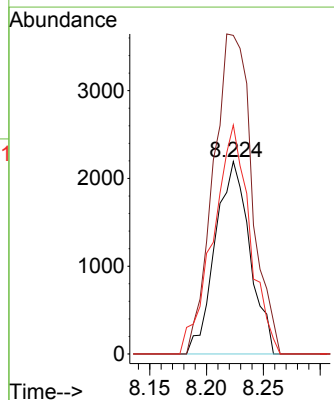
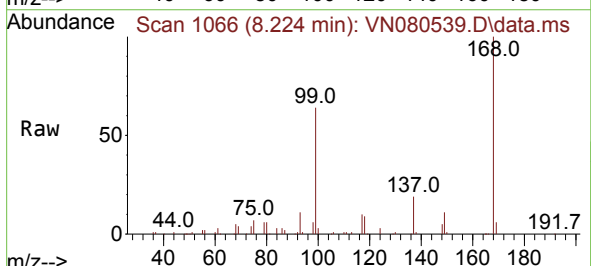
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 120.5 | 79.7  | 119.5# |
| 51  | 37.0  | 25.2  | 37.8   |
| 86  | 56.3  | 53.3  | 79.9   |

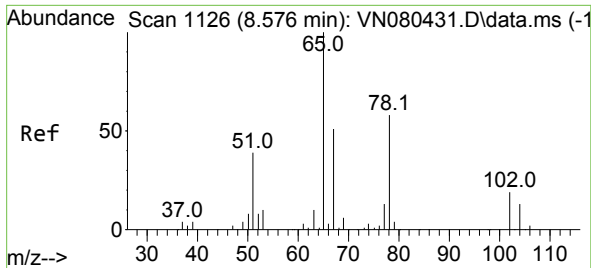


#31  
Cyclohexane  
Concen: 1.185 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

Tgt Ion: 56 Resp: 4628

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 165.5 | 26.8  | 40.2# |
| 84  | 118.9 | 81.8  | 122.6 |

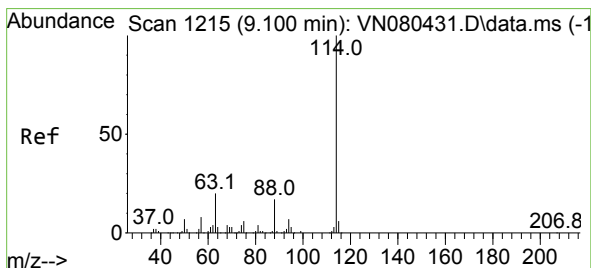
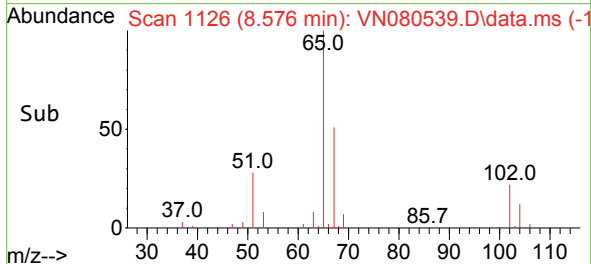
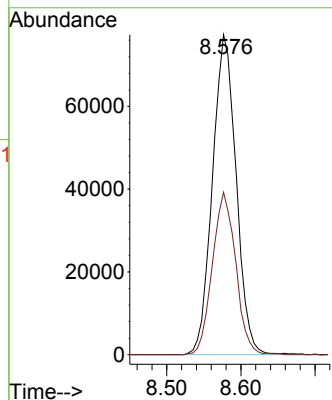
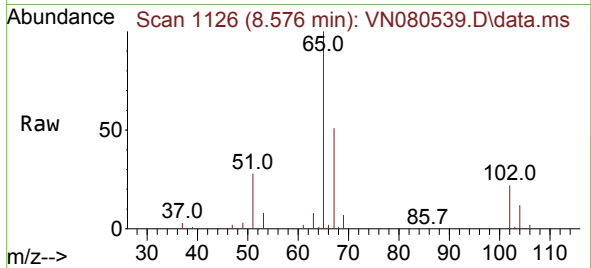




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.638 ug/l  
 RT: 8.576 min Scan# 1126  
 Delta R.T. 0.000 min  
 Lab File: VN080539.D  
 Acq: 20 Dec 2023 11:55

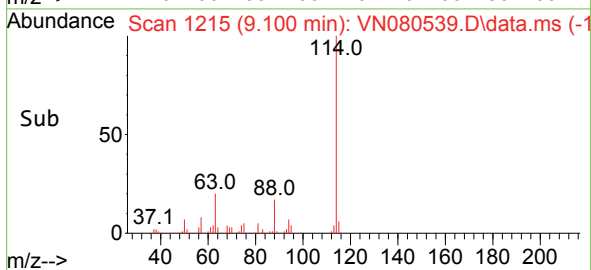
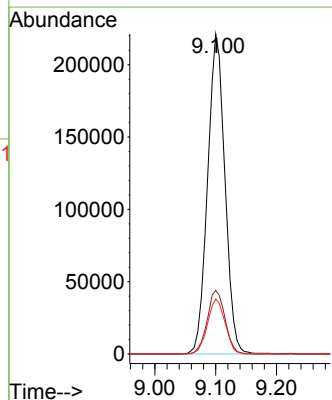
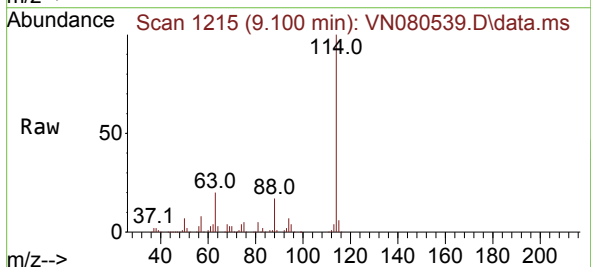
Instrument :  
 MSVOA\_N  
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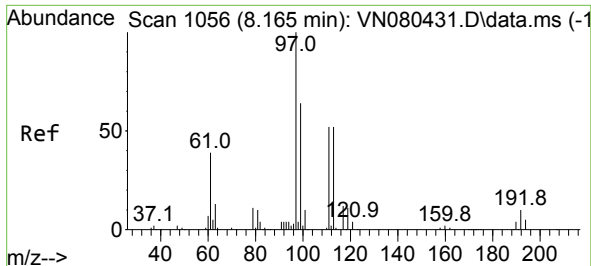
Tgt Ion: 65 Resp: 171276  
 Ion Ratio Lower Upper  
 65 100  
 67 50.1 0.0 106.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. 0.000 min  
 Lab File: VN080539.D  
 Acq: 20 Dec 2023 11:55

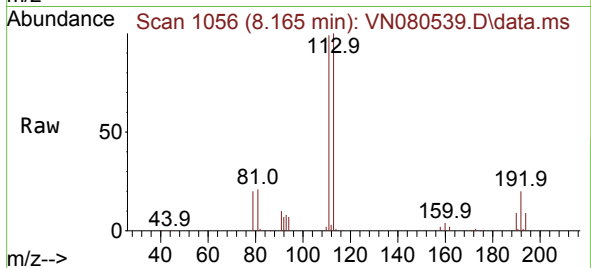
Tgt Ion: 114 Resp: 437296  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 36.4  
 88 17.1 0.0 30.6



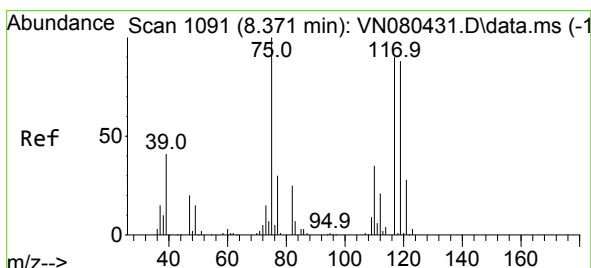
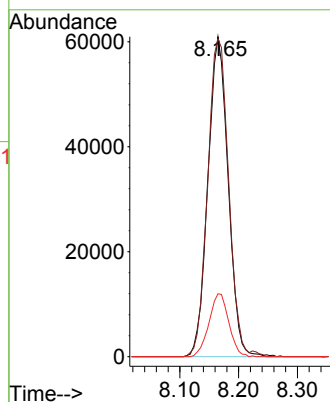
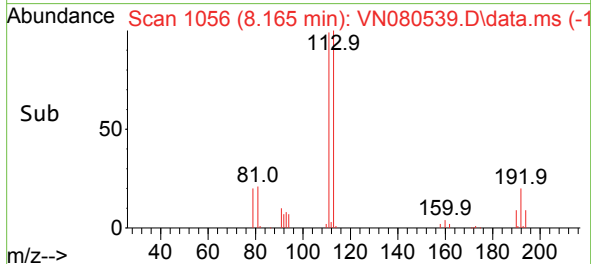


#35  
Dibromofluoromethane  
Concen: 52.558 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

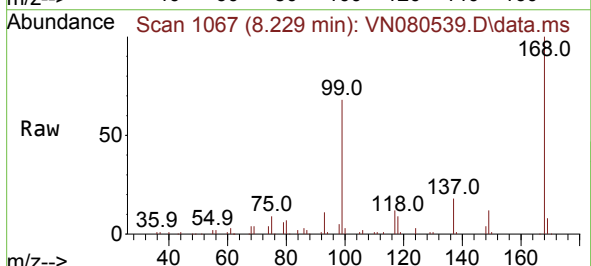
Instrument :  
MSVOA\_N  
ClientSampleId :



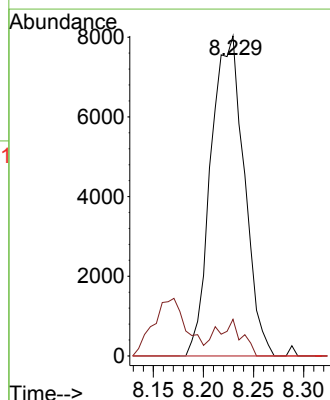
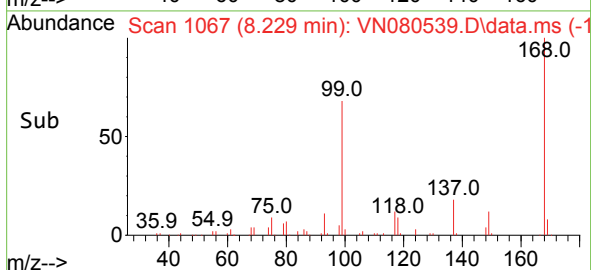
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Ion Ratio Lower Upper  
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111 103.0 82.6 123.8  
192 19.3 12.7 19.1#

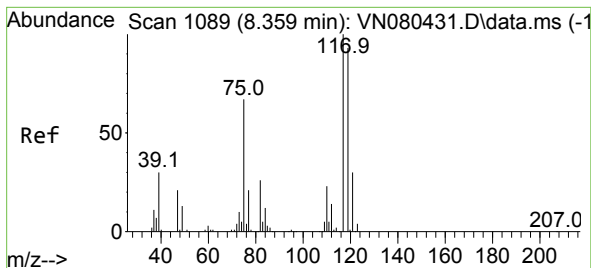


#36  
1,1-Dichloropropene  
Concen: 4.084 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55



Tgt Ion: 75 Resp: 18515  
Ion Ratio Lower Upper  
75 100  
110 8.5 19.1 57.3#  
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.550 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.129 min

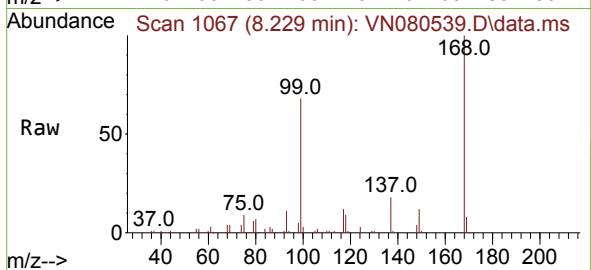
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Acq: 20 Dec 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :



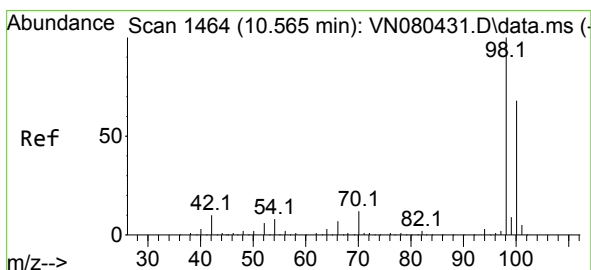
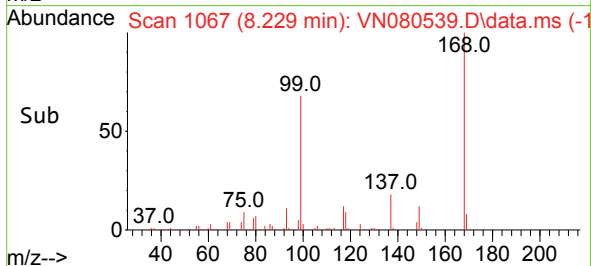
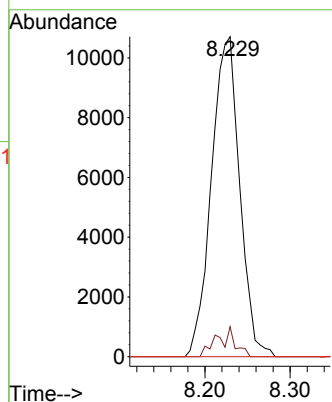
Tgt Ion:117 Resp: 24645

Ion Ratio Lower Upper

117 100

119 9.3 77.3 115.9#

121 0.0 23.3 34.9#



#50

Toluene-d8

Concen: 49.364 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN080539.D

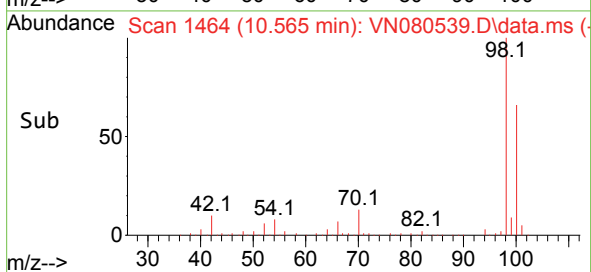
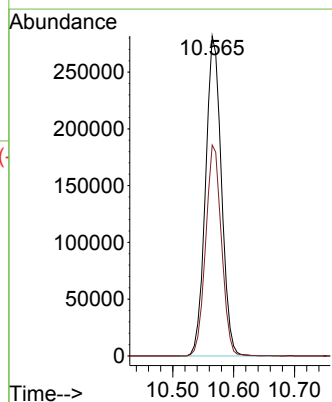
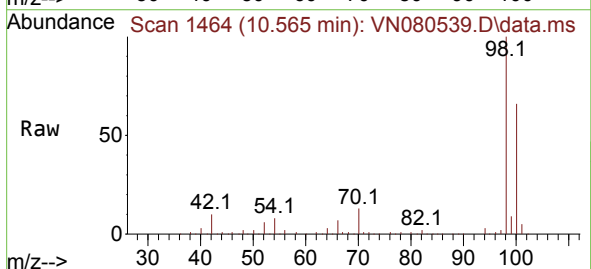
Acq: 20 Dec 2023 11:55

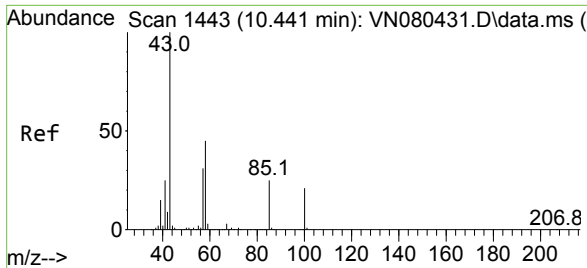
Tgt Ion: 98 Resp: 510447

Ion Ratio Lower Upper

98 100

100 65.5 52.0 78.0

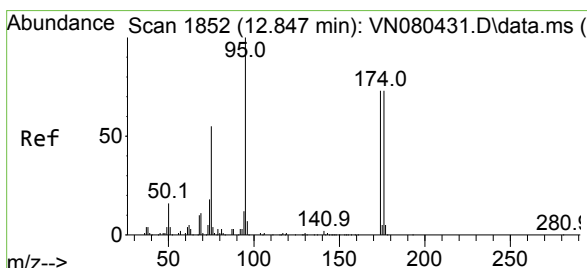
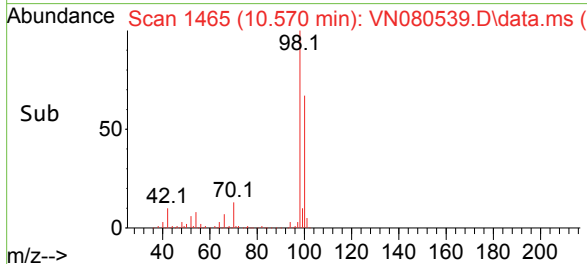
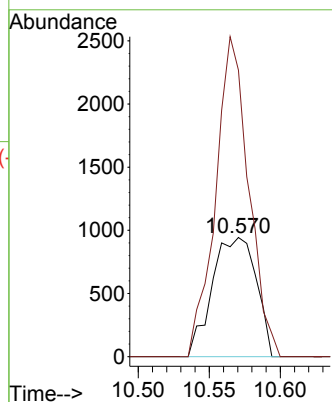
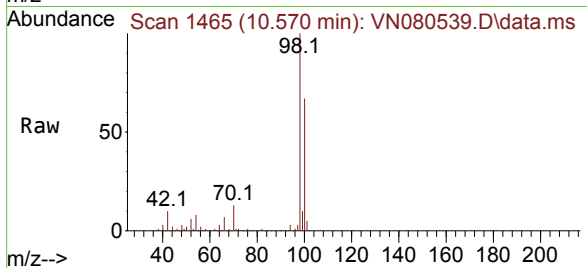




#51  
4-Methyl-2-Pentanone  
Concen: 0.723 ug/l  
RT: 10.570 min Scan# 1443  
Delta R.T. 0.129 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

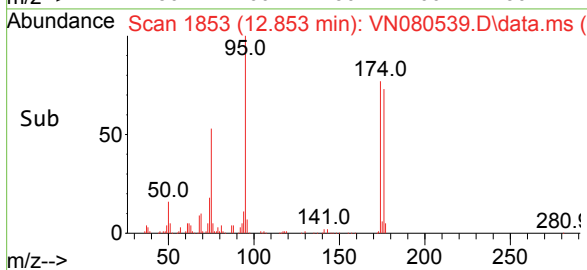
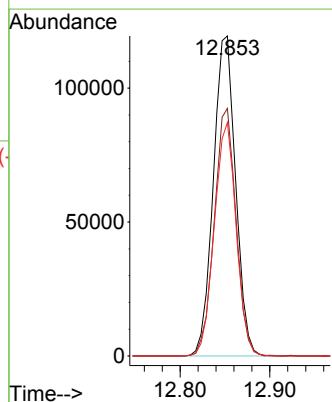
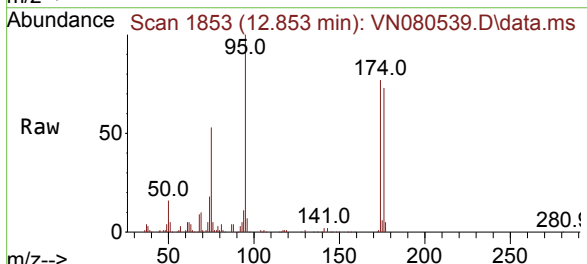
Instrument :  
MSVOA\_N  
ClientSampleId :

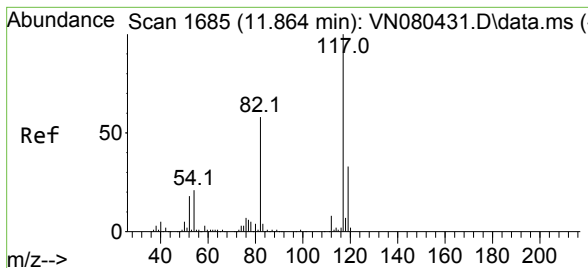
Tgt Ion: 43 Resp: 2033  
Ion Ratio Lower Upper  
43 100  
58 202.4 36.6 54.8#



#62  
4-Bromofluorobenzene  
Concen: 52.414 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN080539.D  
Acq: 20 Dec 2023 11:55

Tgt Ion: 95 Resp: 205805  
Ion Ratio Lower Upper  
95 100  
174 75.5 0.0 143.8  
176 71.6 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN080539.D

Acq: 20 Dec 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :

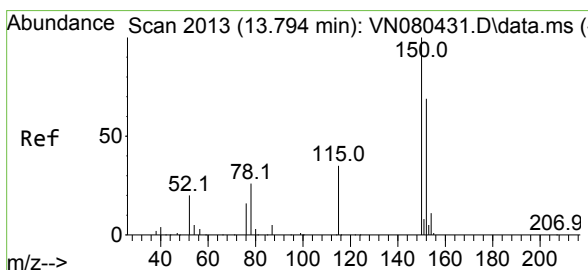
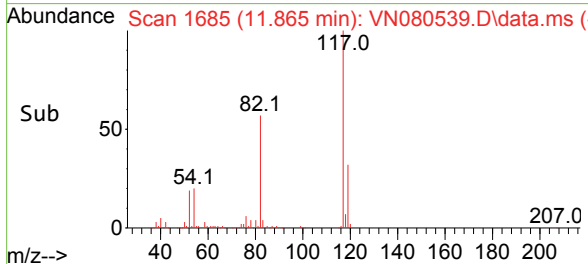
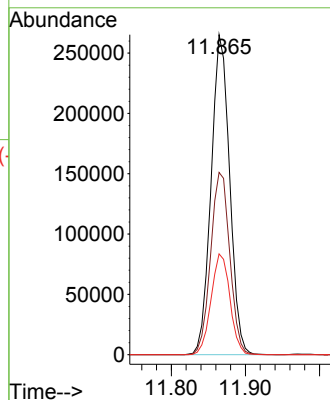
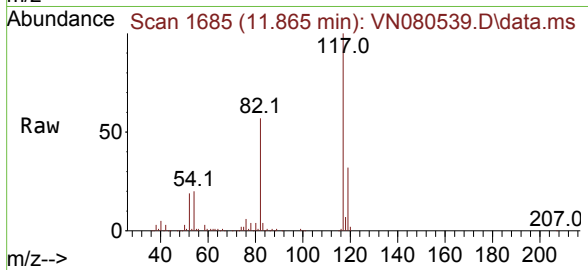
Tgt Ion:117 Resp: 461279

Ion Ratio Lower Upper

117 100

82 57.0 44.0 66.0

119 31.5 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN080539.D

Acq: 20 Dec 2023 11:55

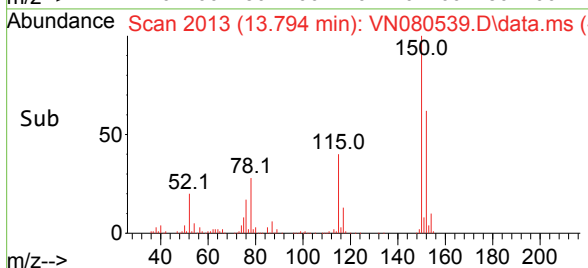
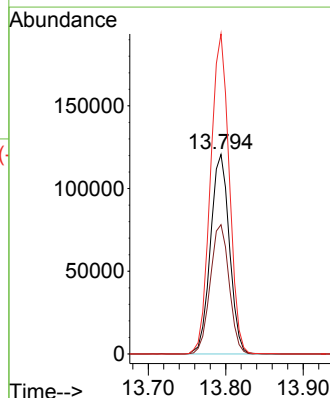
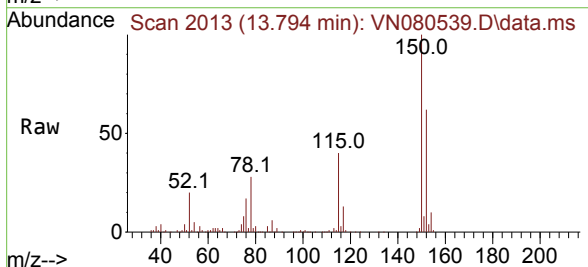
Tgt Ion:152 Resp: 204520

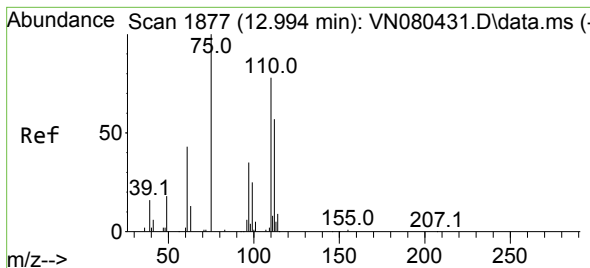
Ion Ratio Lower Upper

152 100

115 64.8 32.3 96.8

150 158.4 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 27.012 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080539.D

Acq: 20 Dec 2023 11:55

Instrument :

MSVOA\_N

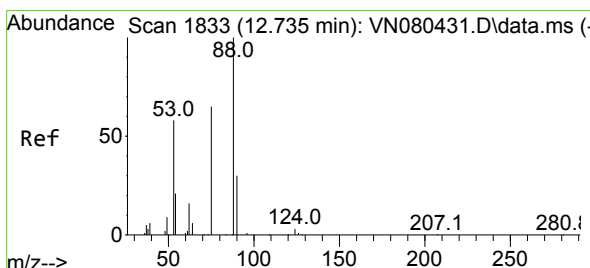
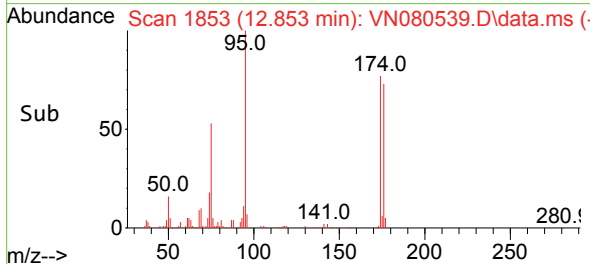
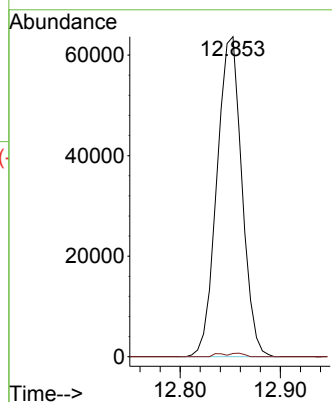
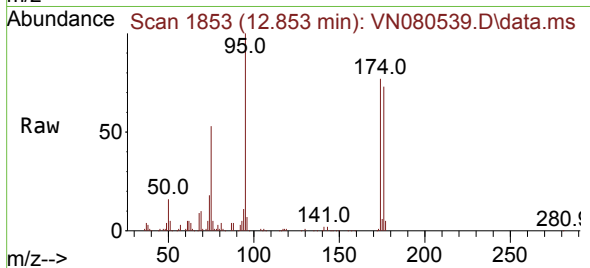
ClientSampleId :

Tgt Ion: 75 Resp: 110212

Ion Ratio Lower Upper

75 100

77 0.6 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.923 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN080539.D

Acq: 20 Dec 2023 11:55

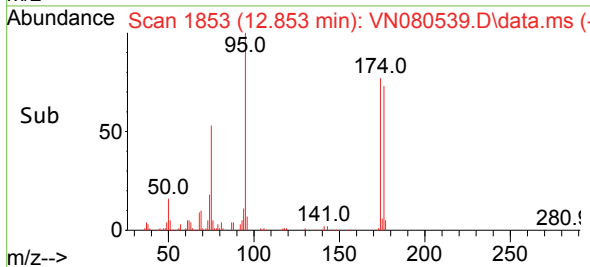
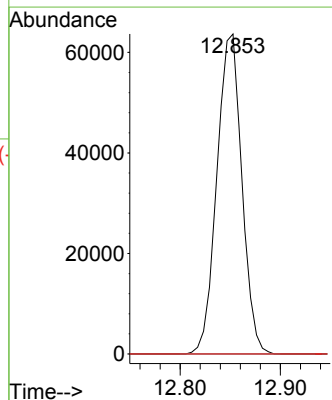
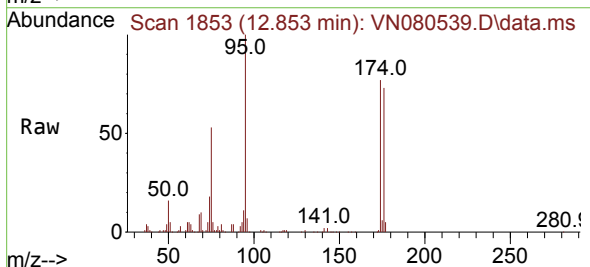
Tgt Ion: 75 Resp: 110212

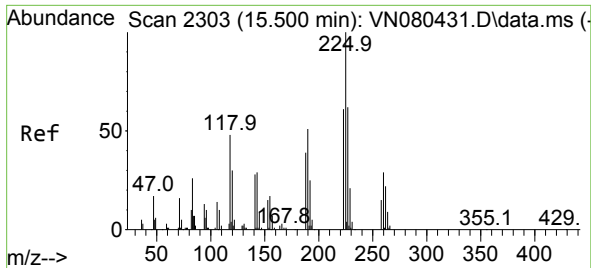
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#





#94

Hexachlorobutadiene

Concen: 0.371 ug/l

RT: 15.500 min Scan# 21

Delta R.T. 0.000 min

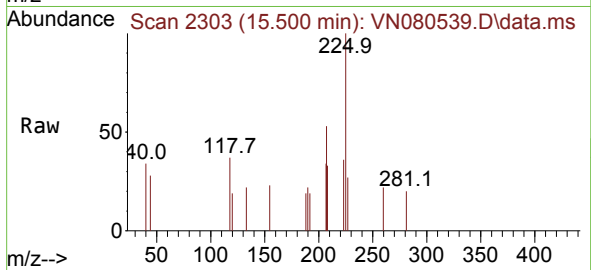
Lab File: VN080539.D

Acq: 20 Dec 2023 11:55

Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 793   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 54.5  | 31.3  | 93.8  |
| 227      | 47.4  | 31.9  | 95.9  |

