

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120523\  
 Data File : VN080366.D  
 Acq On : 05 Dec 2023 15:11  
 Operator : JC\MD  
 Sample : 05620-01 50X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 06 00:52:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

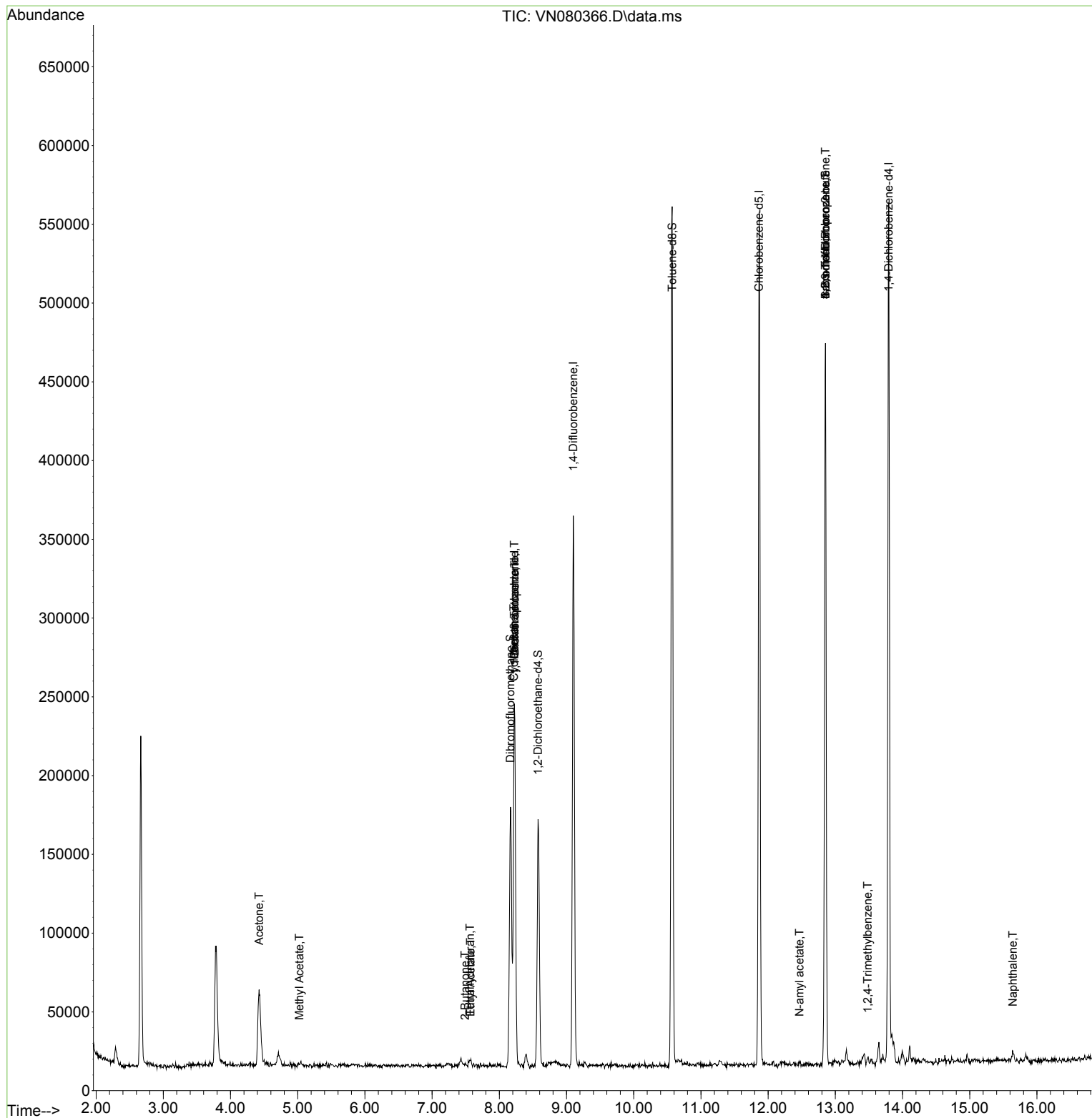
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 162960              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 296678              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 314771              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 146328              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 145426              | 54.047    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 108.100% |           |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 116000              | 52.990    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 105.980% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 386375              | 48.963    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 97.920%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 156775              | 52.598    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 105.200% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 6) Chloroethane               | 3.124          | 64   | 564                 | Below Cal | #      | 43       |
| 16) Acetone                   | 4.424          | 43   | 91788               | 101.563   | ug/l   | 90       |
| 18) Methyl Acetate            | 5.024          | 43   | 2140                | 0.737     | ug/l # | 49       |
| 25) 2-Butanone                | 7.489          | 43   | 2266                | 2.110     | ug/l   | 90       |
| 29) Tetrahydrofuran           | 7.565          | 42   | 148                 | 0.257     | ug/l # | 20       |
| 31) Cyclohexane               | 8.218          | 56   | 3196                | 1.092     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 13442               | 4.241     | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.571          | 43   | 5445                | 2.477     | ug/l # | 85       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 17860               | 4.441     | ug/l # | 17       |
| 71) Bromoform                 | 12.853         | 173  | 944                 | 0.460     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.465         | 43   | 916                 | 0.258     | ug/l # | 36       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 86934               | 24.247    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 86934               | 81.922    | ug/l # | 15       |
| 84) 1,2,4-Trimethylbenzene    | 13.482         | 105  | 3343                | 0.343     | ug/l   | 98       |
| 95) Naphthalene               | 15.641         | 128  | 7251                | 0.870     | ug/l   | 99       |
| -----                         |                |      |                     |           |        |          |

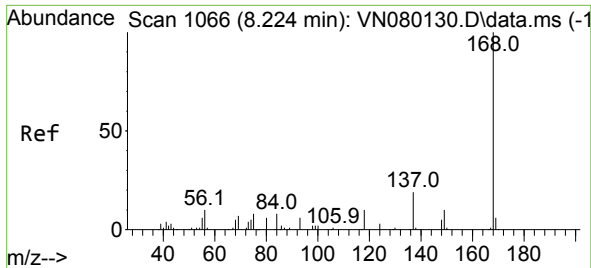
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 14 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :

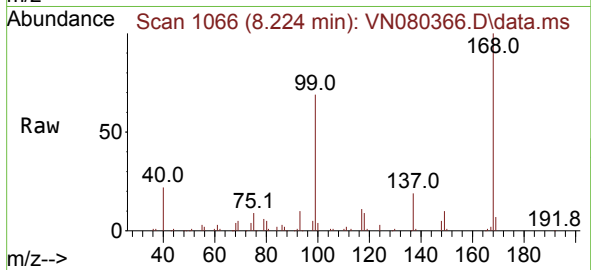
Quant Time: Dec 06 00:52:39 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 17 01:19:32 2023  
Response via : Initial Calibration



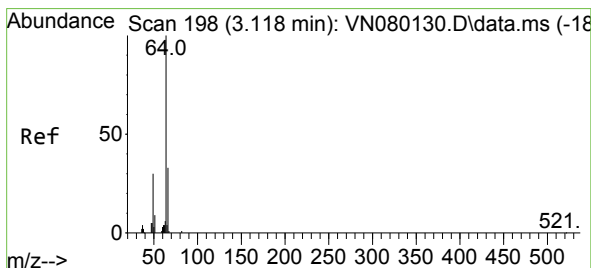
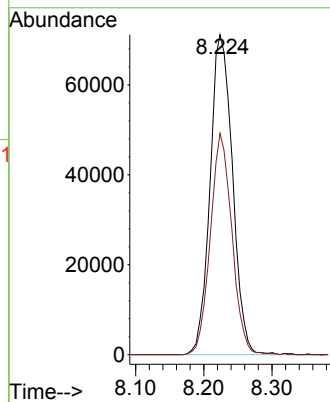
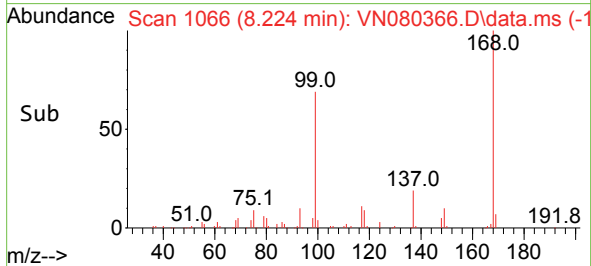


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

Instrument :  
MSVOA\_N  
ClientSampleId :

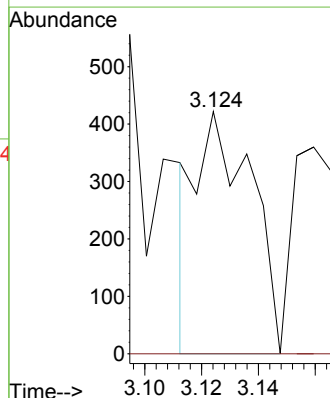
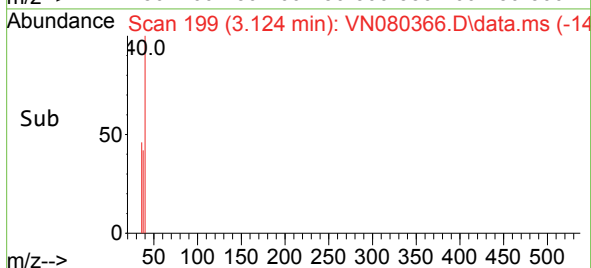
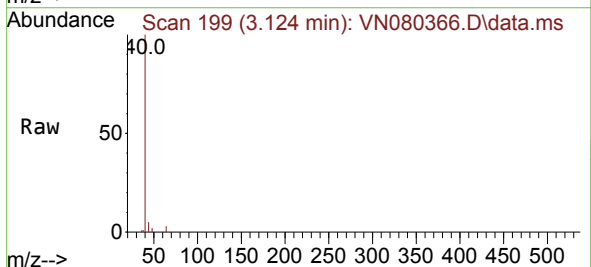


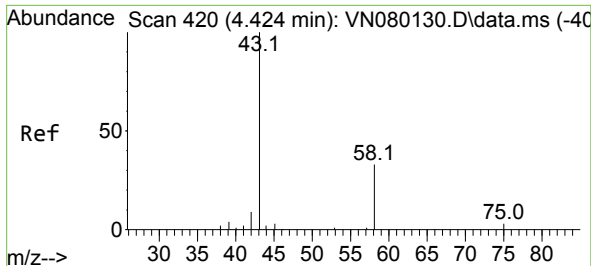
Tgt Ion:168 Resp: 162960  
Ion Ratio Lower Upper  
168 100  
99 69.2 53.0 79.6



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.124 min Scan# 199  
Delta R.T. 0.006 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

Tgt Ion: 64 Resp: 564  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#

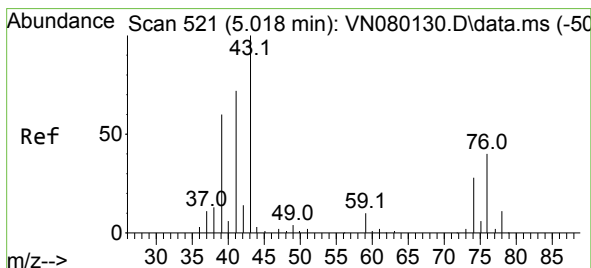
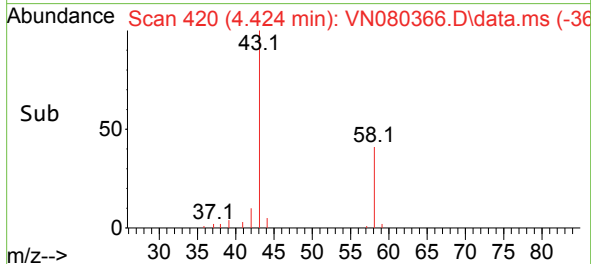
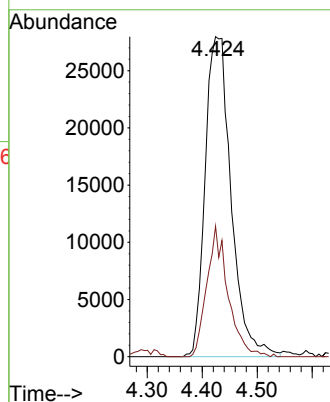
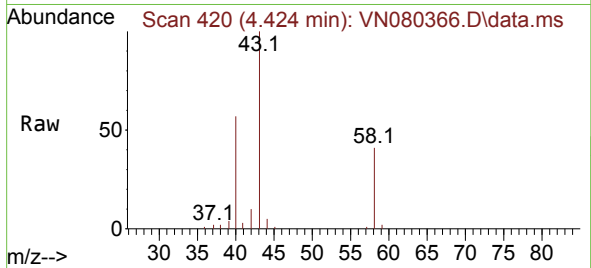




#16  
Acetone  
Concen: 101.563 ug/l  
RT: 4.424 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

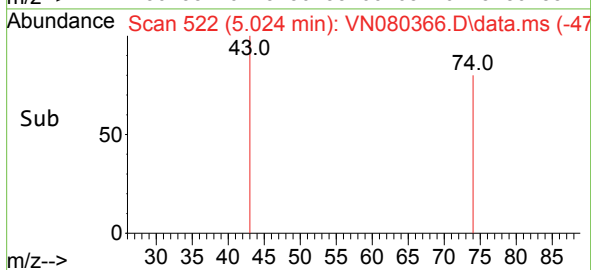
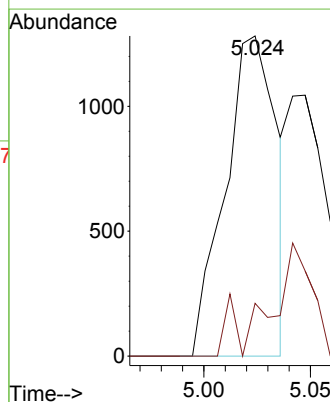
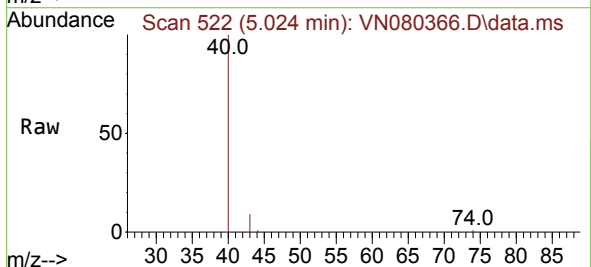
Instrument :  
MSVOA\_N  
ClientSampleId :

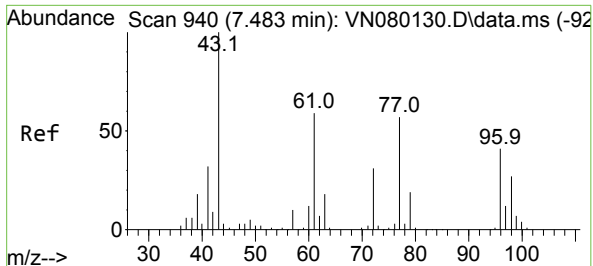
Tgt Ion: 43 Resp: 91788  
Ion Ratio Lower Upper  
43 100  
58 40.8 28.0 42.0



#18  
Methyl Acetate  
Concen: 0.737 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

Tgt Ion: 43 Resp: 2140  
Ion Ratio Lower Upper  
43 100  
74 4.1 26.2 39.4#

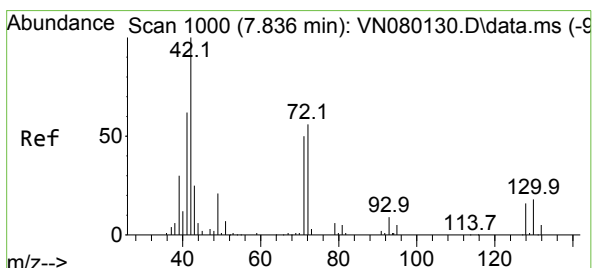
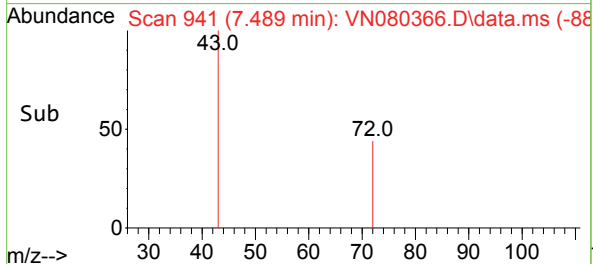
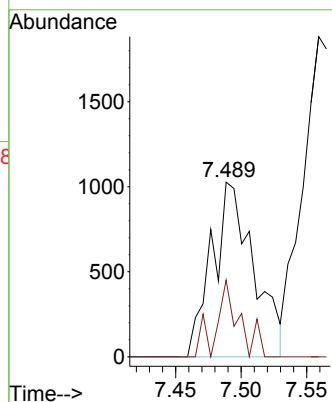
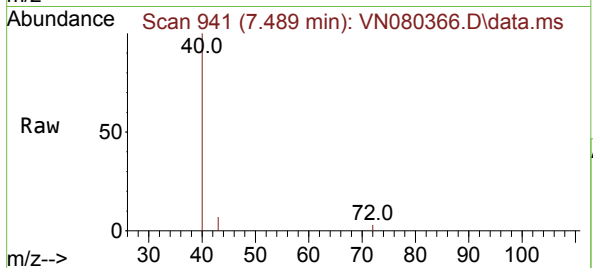




#25  
2-Butanone  
Concen: 2.110 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

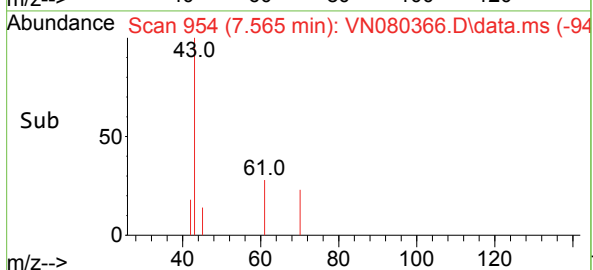
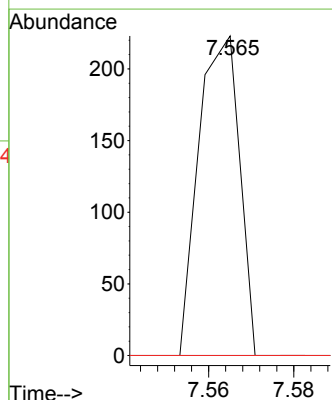
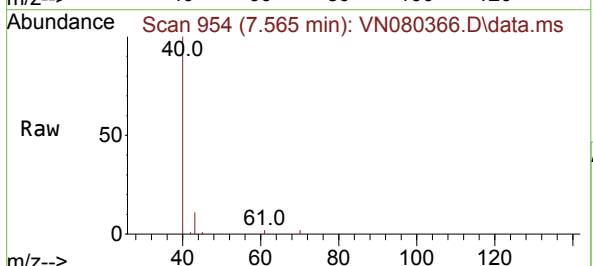
Instrument :  
MSVOA\_N  
ClientSampleId :

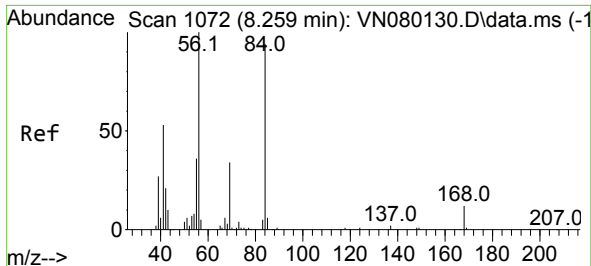
Tgt Ion: 43 Resp: 2266  
Ion Ratio Lower Upper  
43 100  
72 43.9 30.2 45.2



#29  
Tetrahydrofuran  
Concen: 0.257 ug/l  
RT: 7.565 min Scan# 954  
Delta R.T. -0.271 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

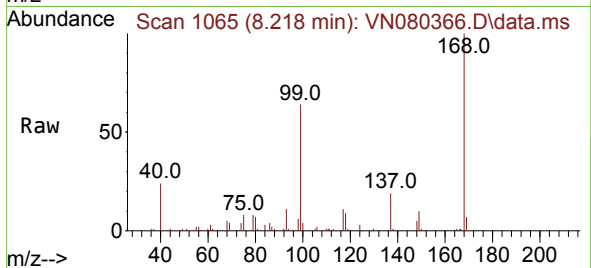
Tgt Ion: 42 Resp: 148  
Ion Ratio Lower Upper  
42 100  
72 0.0 49.8 74.6#  
71 0.0 47.4 71.2#



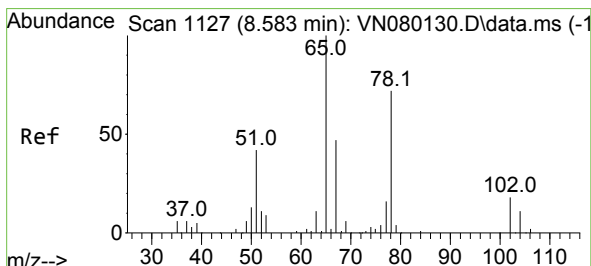
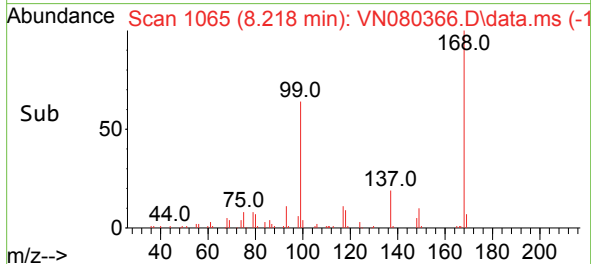
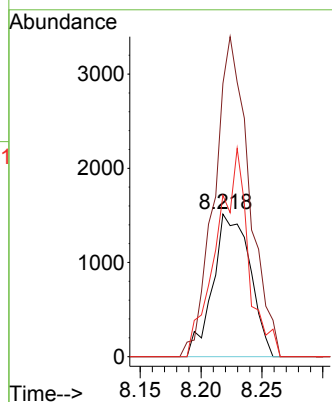


#31  
Cyclohexane  
Concen: 1.092 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.041 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

Instrument :  
MSVOA\_N  
ClientSampleId :

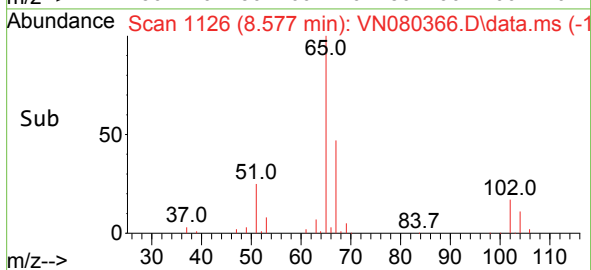
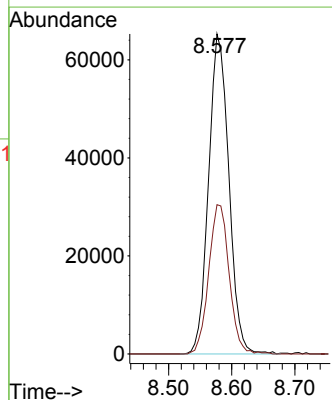
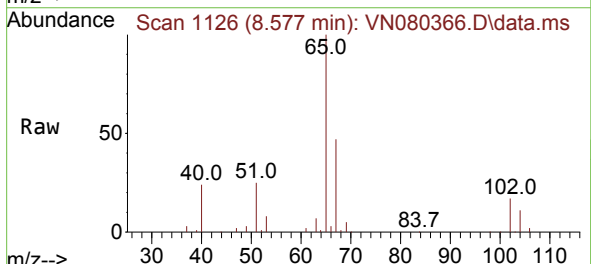


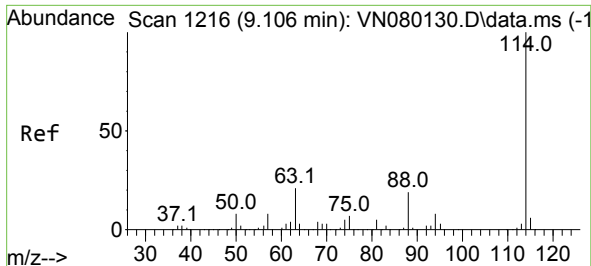
Tgt Ion: 56 Resp: 3196  
Ion Ratio Lower Upper  
56 100  
69 191.5 26.8 40.2#  
84 113.1 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 54.047 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.006 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

Tgt Ion: 65 Resp: 145426  
Ion Ratio Lower Upper  
65 100  
67 47.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN080366.D

Acq: 05 Dec 2023 15:11

Instrument :

MSVOA\_N

ClientSampleId :

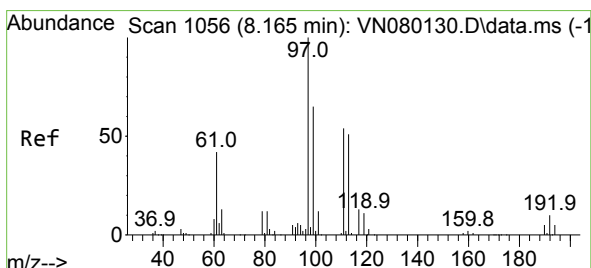
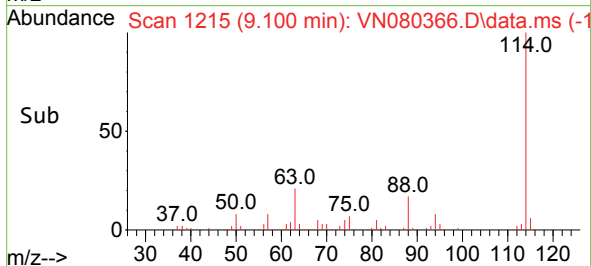
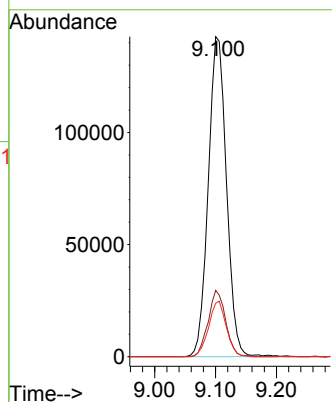
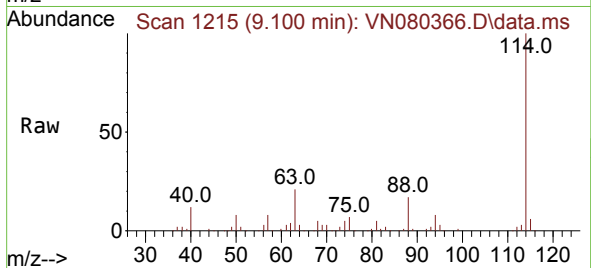
Tgt Ion:114 Resp: 296678

Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.4

88 16.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.990 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN080366.D

Acq: 05 Dec 2023 15:11

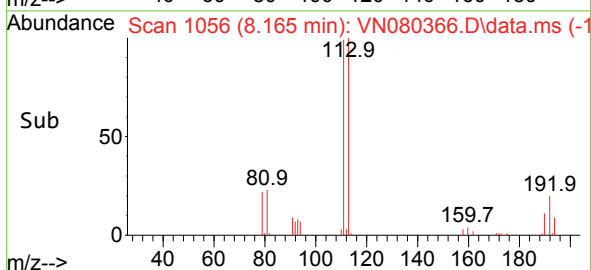
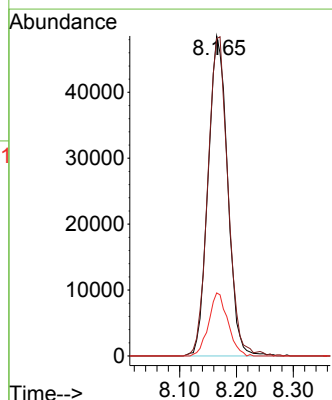
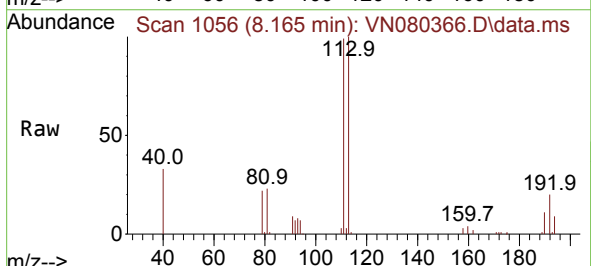
Tgt Ion:113 Resp: 116000

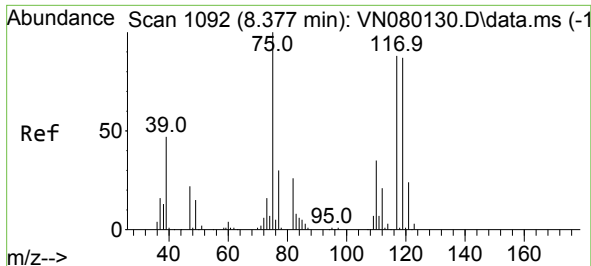
Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 19.3 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.241 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

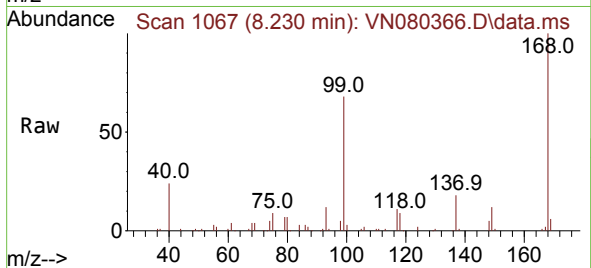
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Acq: 05 Dec 2023 15:11

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MSVOA\_N

ClientSampleId :



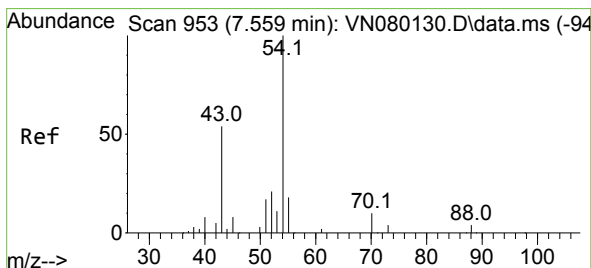
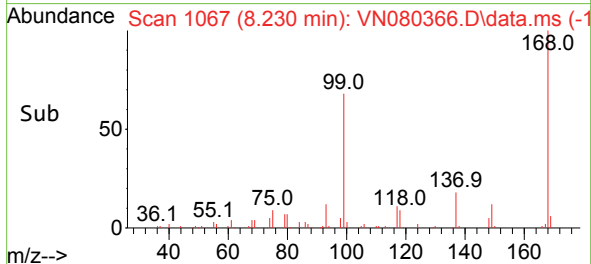
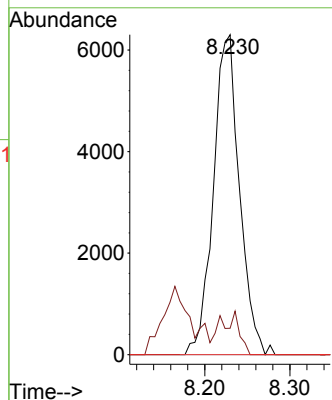
Tgt Ion: 75 Resp: 13442

Ion Ratio Lower Upper

75 100

110 9.6 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 2.477 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.012 min

Lab File: VN080366.D

Acq: 05 Dec 2023 15:11

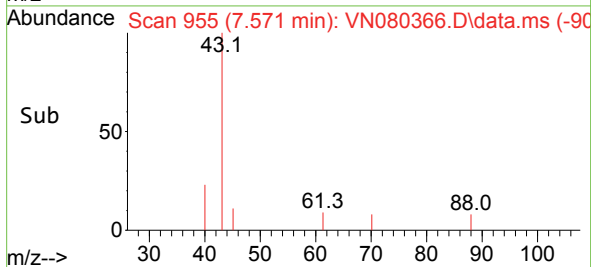
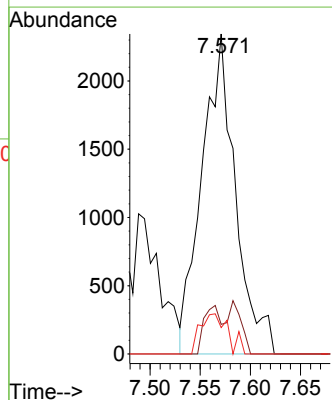
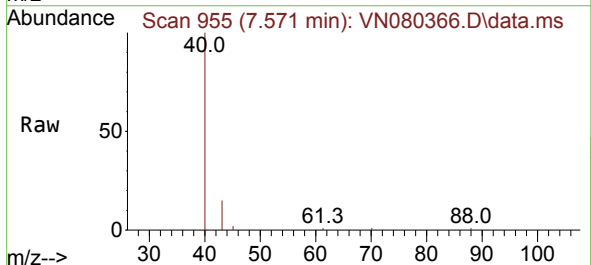
Tgt Ion: 43 Resp: 5445

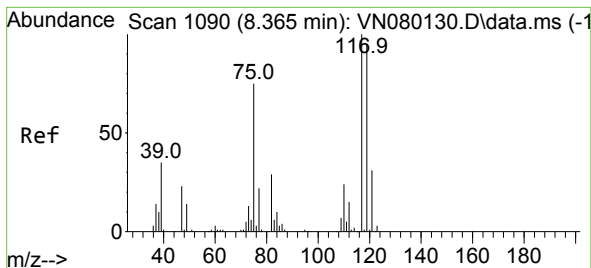
Ion Ratio Lower Upper

43 100

61 7.5 13.2 19.8#

70 10.4 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.441 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

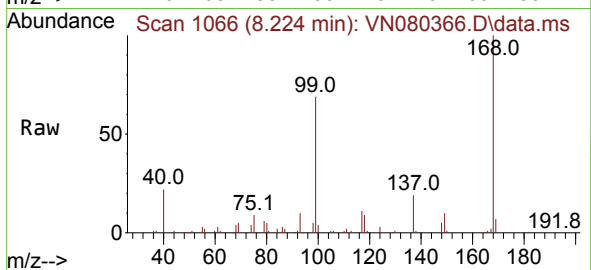
Lab File: VN080366.D

Acq: 05 Dec 2023 15:11

Instrument :

MSVOA\_N

ClientSampleId :



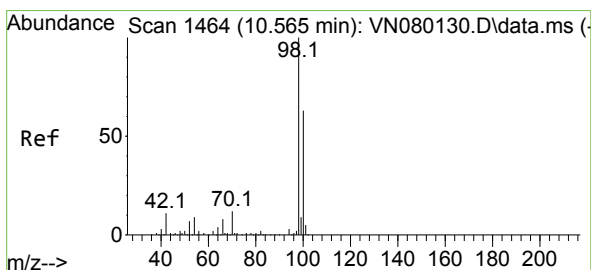
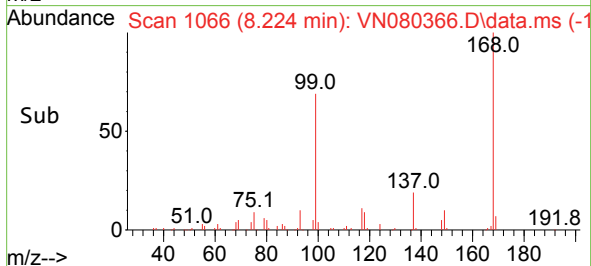
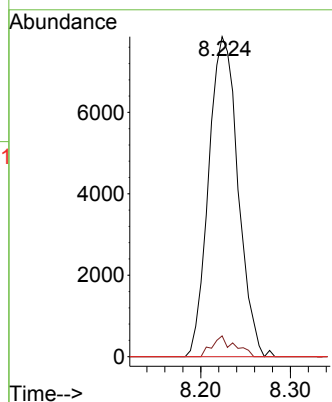
Tgt Ion:117 Resp: 17860

Ion Ratio Lower Upper

117 100

119 6.5 77.3 115.9#

121 0.0 23.3 34.9#



#50

Toluene-d8

Concen: 48.963 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080366.D

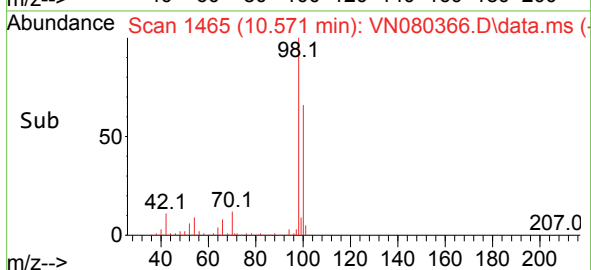
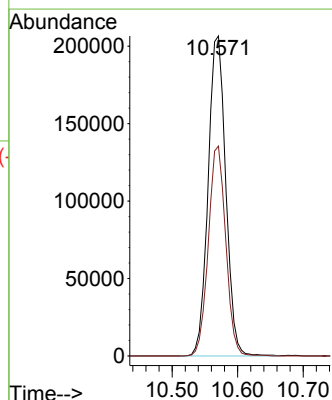
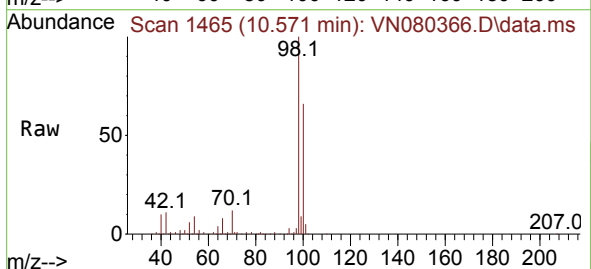
Acq: 05 Dec 2023 15:11

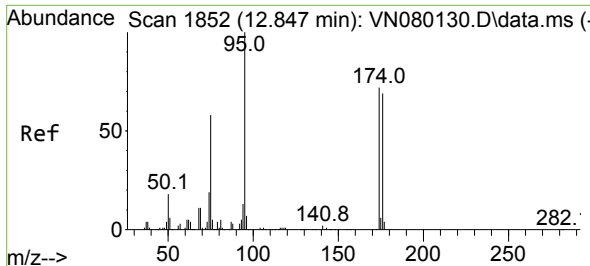
Tgt Ion: 98 Resp: 386375

Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0

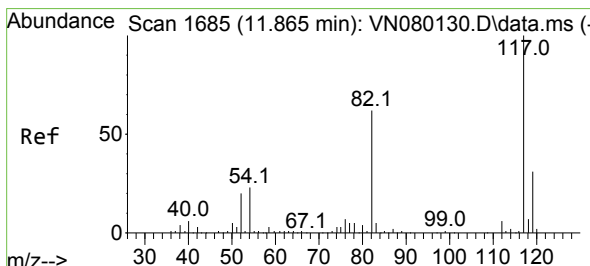
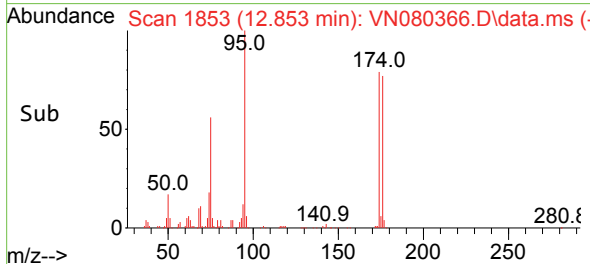
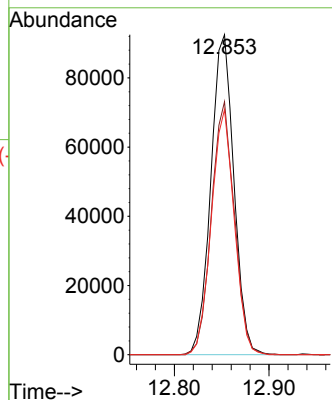
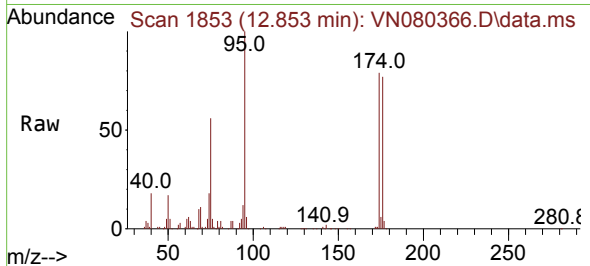




#62  
4-Bromofluorobenzene  
Concen: 52.598 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

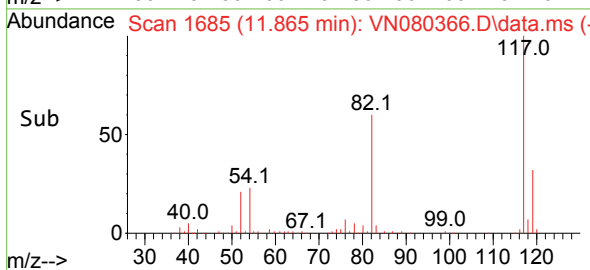
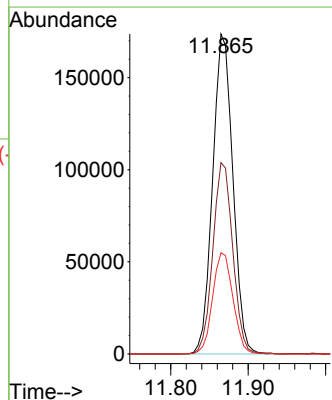
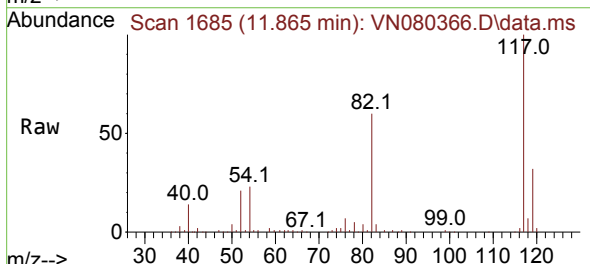
Instrument :  
MSVOA\_N  
ClientSampleId :

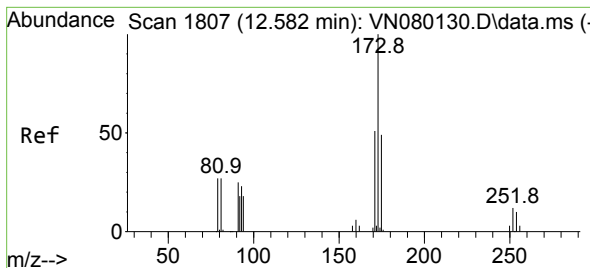
Tgt Ion: 95 Resp: 156775  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 143.8  
176 76.1 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

Tgt Ion: 117 Resp: 314771  
Ion Ratio Lower Upper  
117 100  
82 59.8 44.0 66.0  
119 31.6 25.6 38.4





#71

Bromoform

Concen: 0.460 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

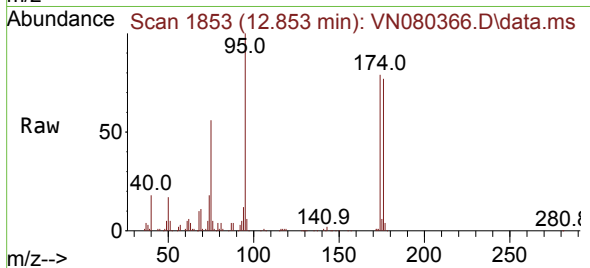
Lab File: VN080366.D

Acq: 05 Dec 2023 15:11

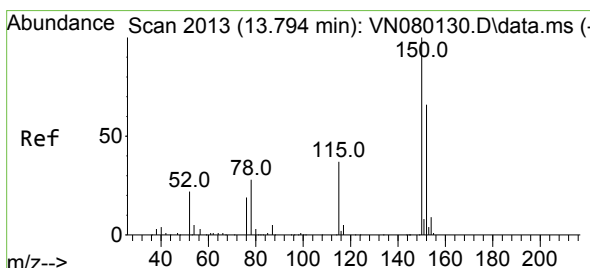
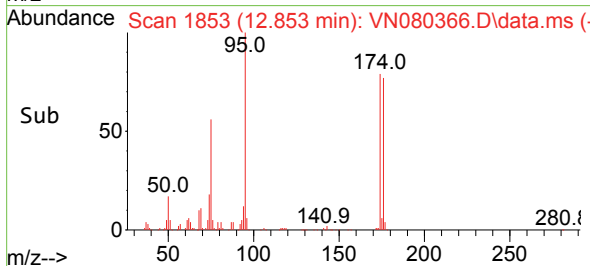
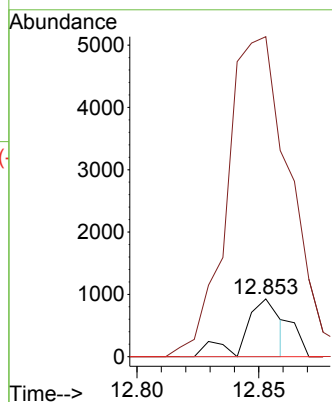
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 944   |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 799.4 | 24.3  | 73.0# |
| 254       | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

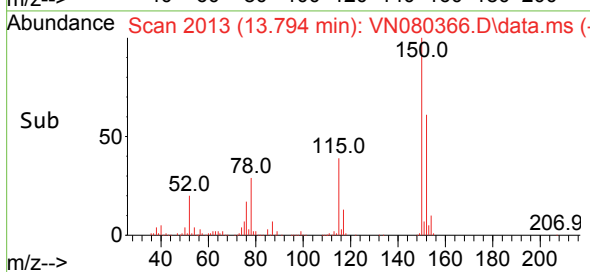
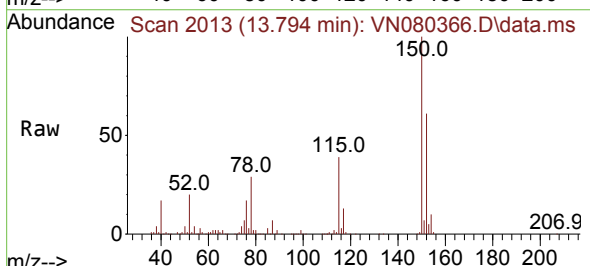
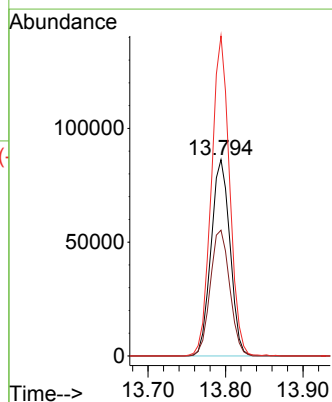
RT: 13.794 min Scan# 2013

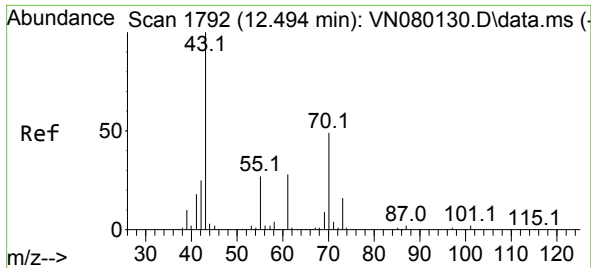
Delta R.T. -0.000 min

Lab File: VN080366.D

Acq: 05 Dec 2023 15:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 146328 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 65.9  | 32.3  | 96.8   |
| 150       | 156.6 | 0.0   | 355.8  |

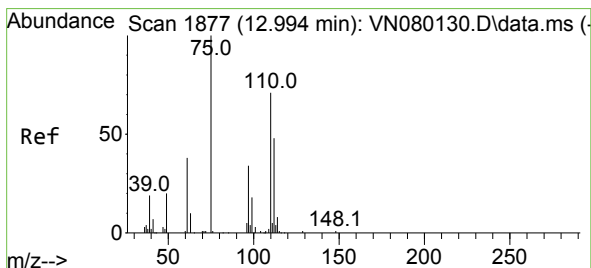
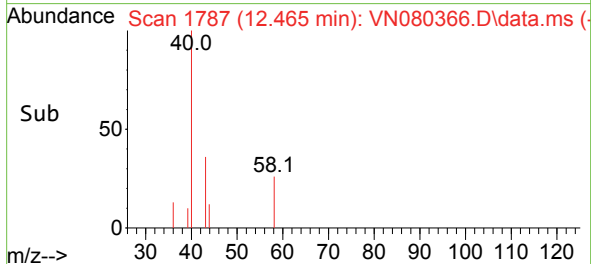
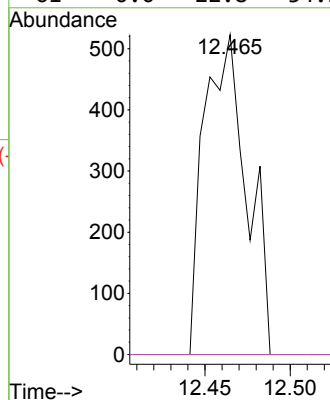
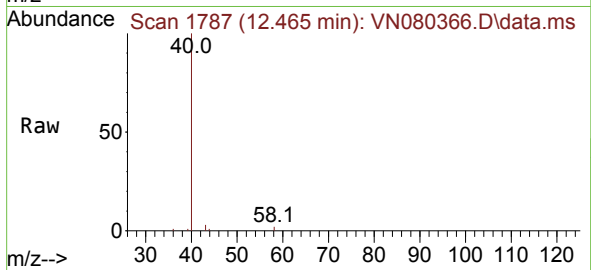




#74  
N-amy1 acetate  
Concen: 0.258 ug/l  
RT: 12.465 min Scan# 11  
Delta R.T. -0.029 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

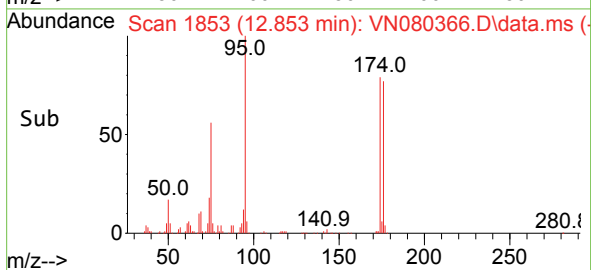
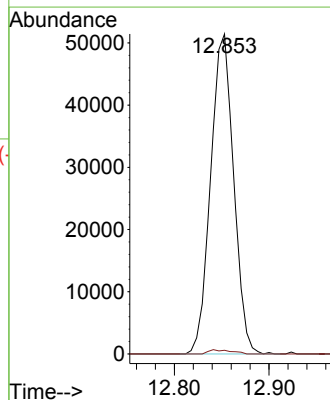
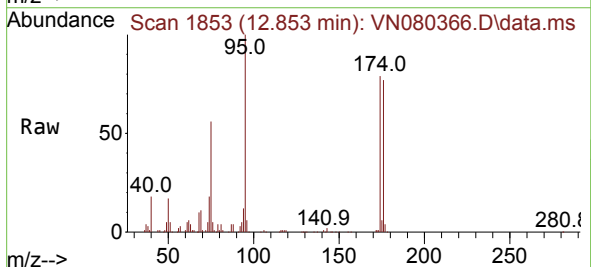
Instrument :  
MSVOA\_N  
ClientSampleId :

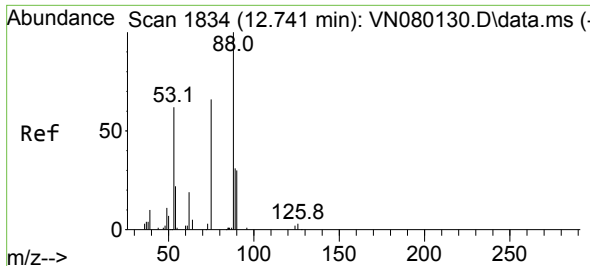
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 916   |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 43.4 65.2#  |
| 55 0.0      | 21.4 32.0#  |
| 61 0.0      | 22.8 34.2#  |



#76  
1,2,3-Trichloropropane  
Concen: 24.247 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 86934 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 1.3      | 84.5 253.5# |

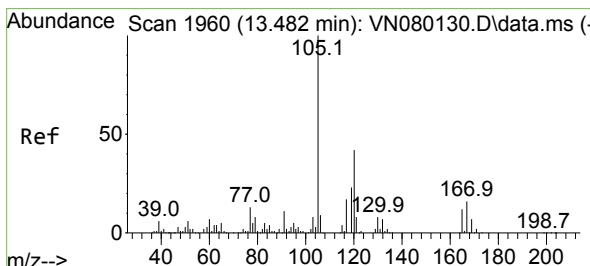
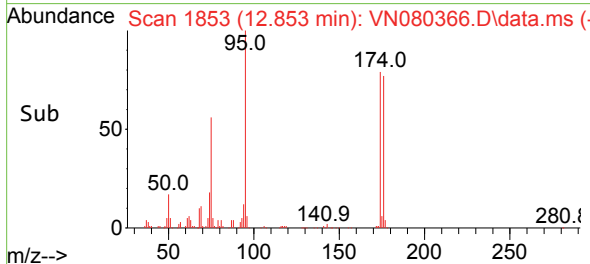
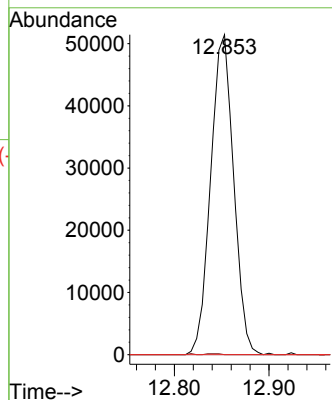
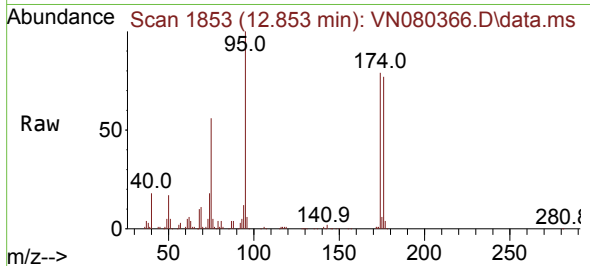




#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.922 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

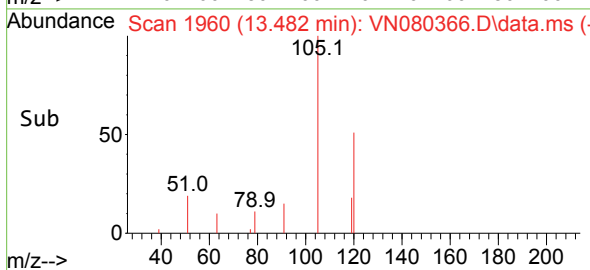
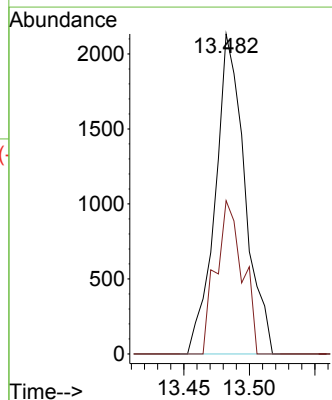
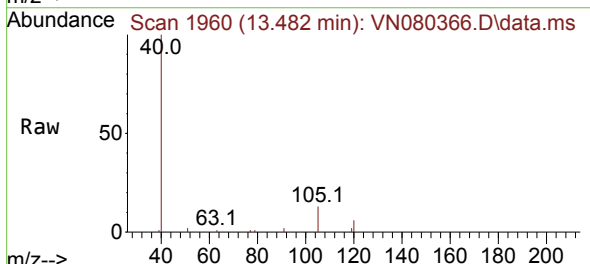
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MSVOA\_N  
ClientSampleId :

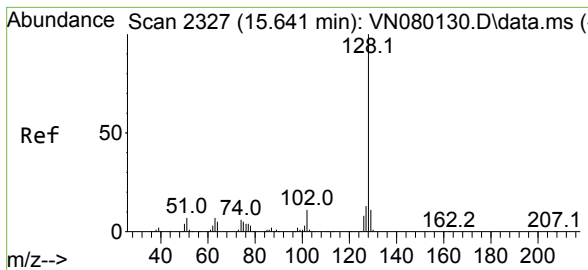
Tgt Ion: 75 Resp: 86934  
Ion Ratio Lower Upper  
75 100  
53 0.2 67.4 101.2#  
89 0.0 38.8 58.2#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.343 ug/l  
RT: 13.482 min Scan# 1960  
Delta R.T. 0.000 min  
Lab File: VN080366.D  
Acq: 05 Dec 2023 15:11

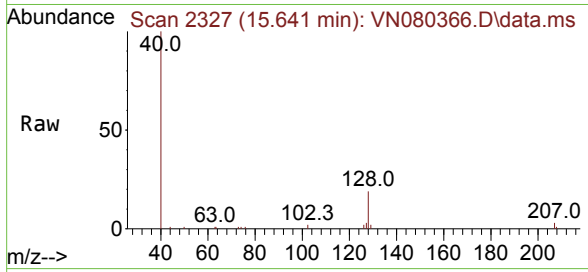
Tgt Ion: 105 Resp: 3343  
Ion Ratio Lower Upper  
105 100  
120 42.8 22.0 66.0





#95  
 Naphthalene  
 Concen: 0.870 ug/l  
 RT: 15.641 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN080366.D  
 Acq: 05 Dec 2023 15:11

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7251  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.6  | 10.0  | 15.0  |
| 129      | 10.3  | 8.7   | 13.1  |

