

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012324\  
 Data File : VD078214.D  
 Acq On : 23 Jan 2024 17:56  
 Operator : RP/MD  
 Sample : P1221-01  
 Misc : 5.07G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MH-B

Quant Time: Jan 24 00:24:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 23 05:43:07 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.887  | 168  | 128742   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 8.781  | 114  | 276269   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 276992   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152  | 119588   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 69526    | 47.306   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 94.620%  |
| 35) Dibromofluoromethane    | 7.810  | 113   | 86234    | 47.428   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 94.860%  |
| 50) Toluene-d8              | 10.269 | 98    | 362454   | 50.344   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 100.680% |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 109352   | 52.375   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 104.740% |

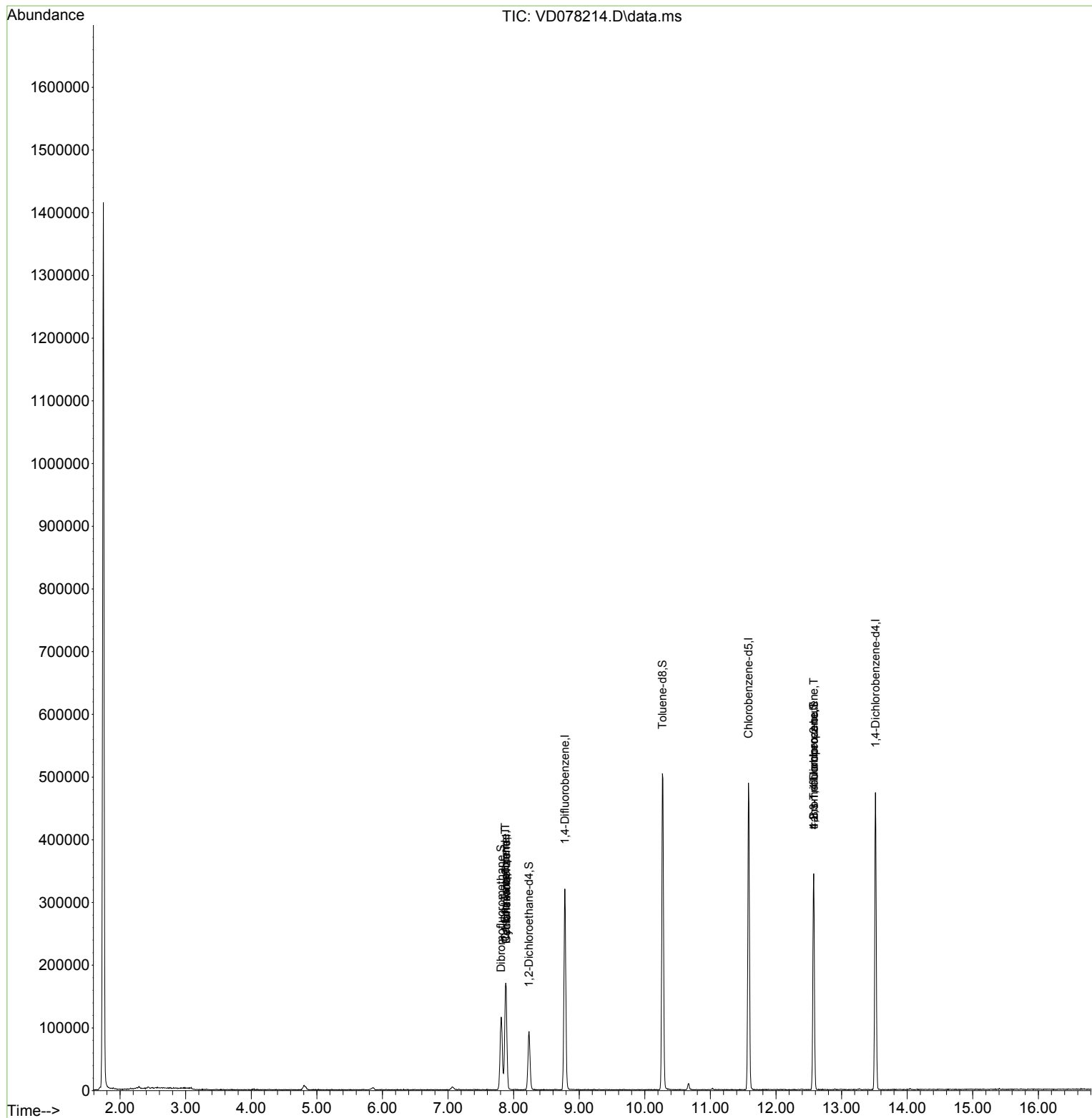
| Target Compounds              |        |     |       |           | Qvalue     |
|-------------------------------|--------|-----|-------|-----------|------------|
| 3) Chloromethane              | 2.146  | 50  | 99    | Below Cal | # 41       |
| 16) Acetone                   | 4.034  | 43  | 1296  | Below Cal | # 78       |
| 20) Methylene Chloride        | 4.811  | 84  | 5062  | Below Cal | # 84       |
| 25) 2-Butanone                | 7.099  | 43  | 148   | Below Cal | # 37       |
| 31) Cyclohexane               | 7.887  | 56  | 3309  | 1.218     | ug/l # 46  |
| 36) 1,1-Dichloropropene       | 7.875  | 75  | 11122 | 3.720     | ug/l # 46  |
| 38) Carbon Tetrachloride      | 7.875  | 117 | 14551 | 4.928     | ug/l # 17  |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75  | 58669 | 51.150    | ug/l # 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75  | 58669 | 110.179   | ug/l # 17  |

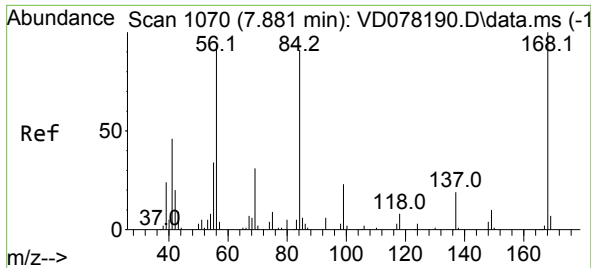
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-B

Quant Time: Jan 24 00:24:20 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012224S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 23 05:43:07 2024  
Response via : Initial Calibration

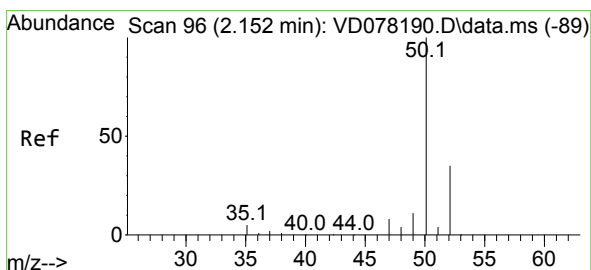
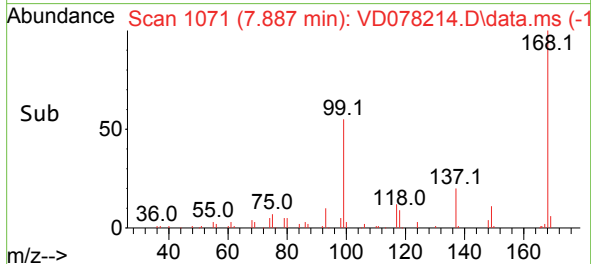
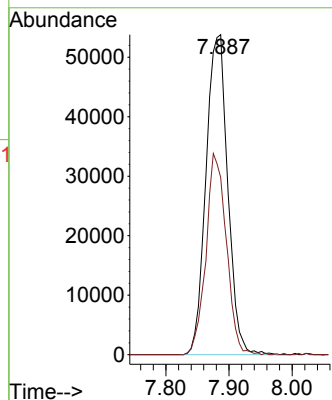
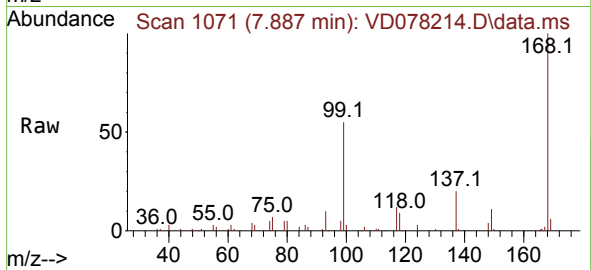




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.887 min Scan# 1070  
Delta R.T. 0.006 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

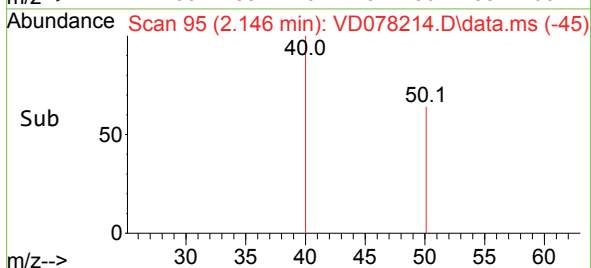
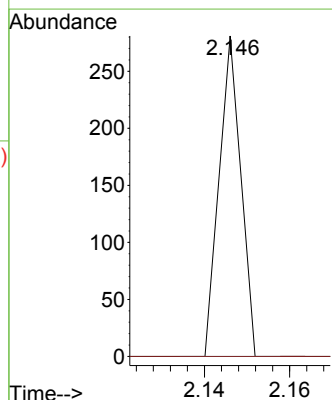
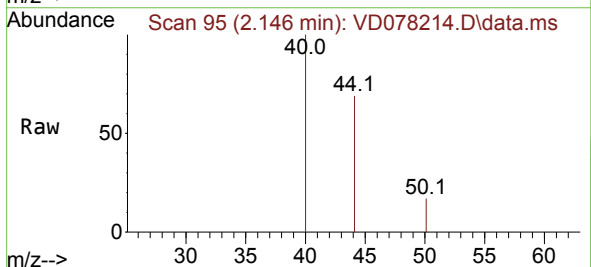
Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-B

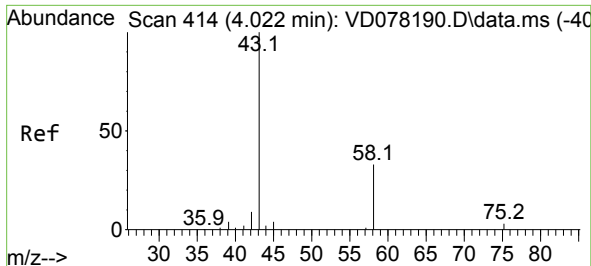
Tgt Ion:168 Resp: 128742  
Ion Ratio Lower Upper  
168 100  
99 55.4 36.7 55.1#



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.146 min Scan# 95  
Delta R.T. -0.006 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

Tgt Ion: 50 Resp: 99  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.6 40.0#

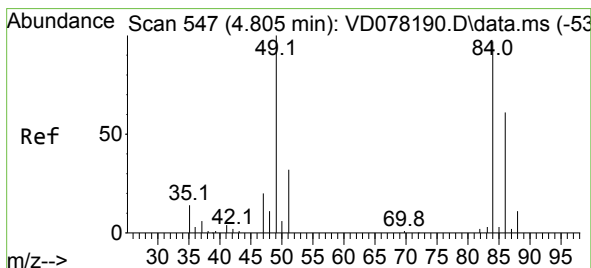
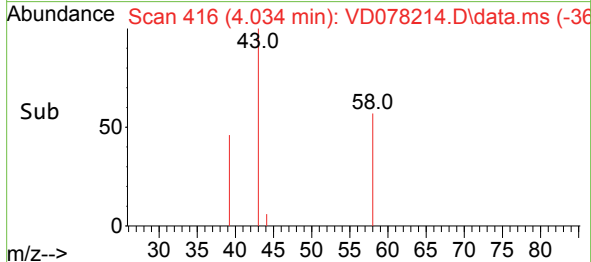
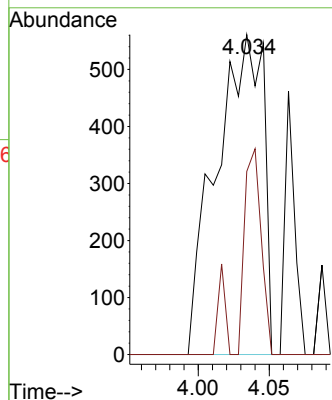
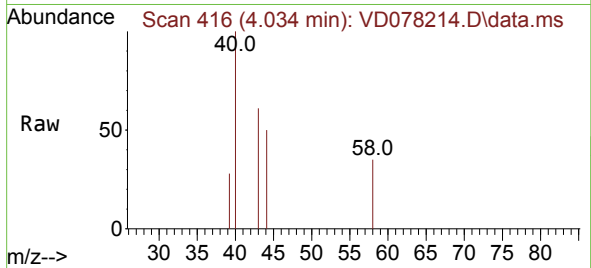




#16  
Acetone  
Concen: Below Cal  
RT: 4.034 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

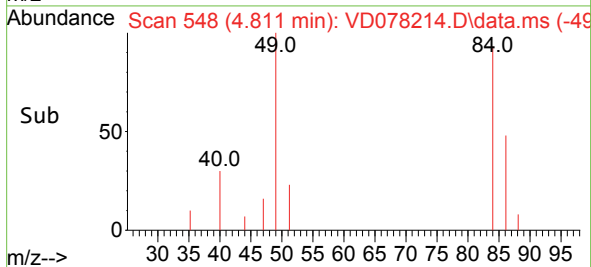
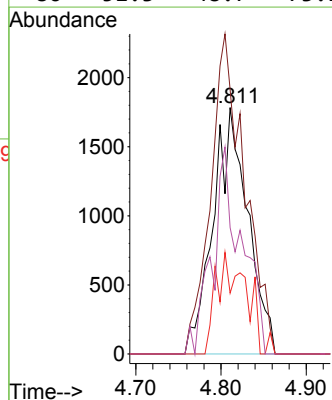
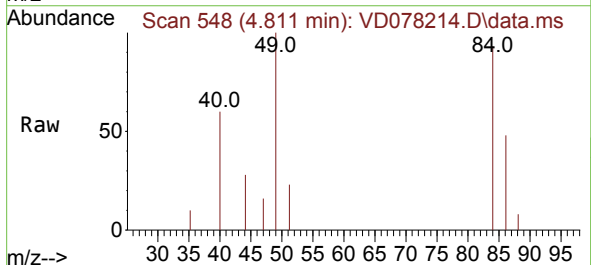
Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-B

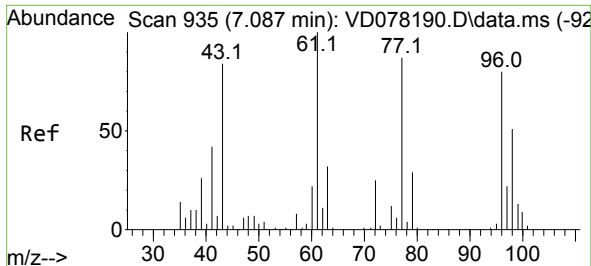
Tgt Ion: 43 Resp: 1296  
Ion Ratio Lower Upper  
43 100  
58 57.2 34.7 52.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.811 min Scan# 548  
Delta R.T. 0.006 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

Tgt Ion: 84 Resp: 5062  
Ion Ratio Lower Upper  
84 100  
49 107.2 71.4 107.2#  
51 24.7 24.5 36.7  
86 51.3 48.7 73.1

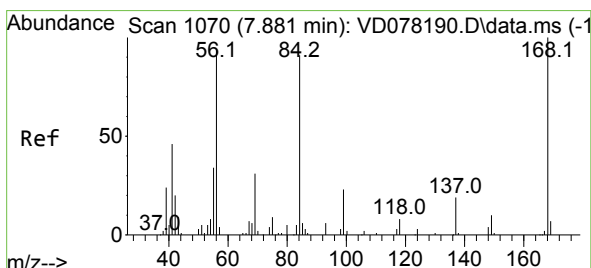
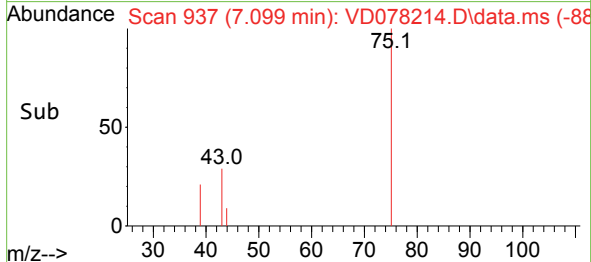
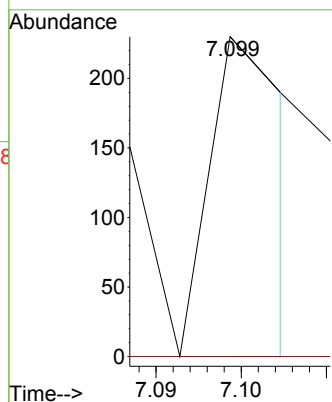
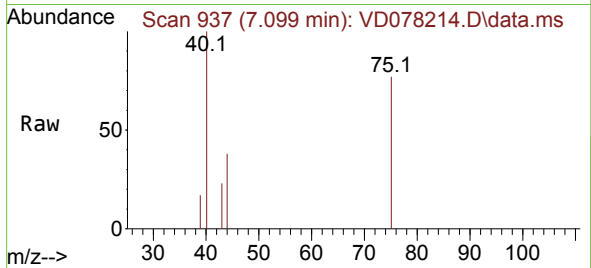




#25  
2-Butanone  
Concen: Below Cal  
RT: 7.099 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

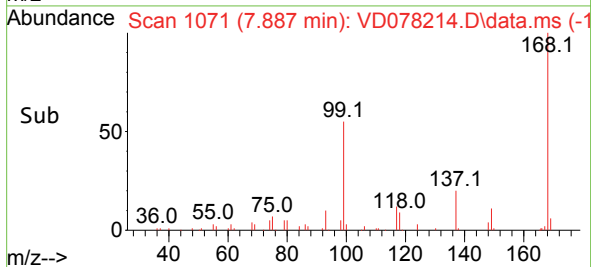
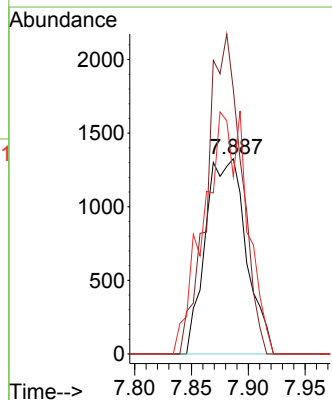
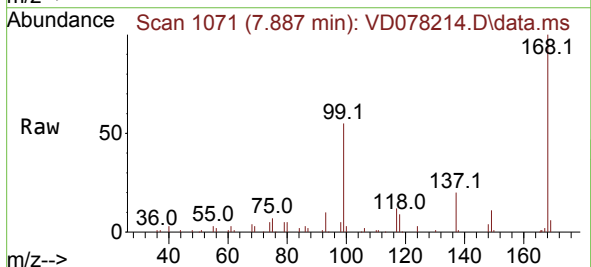
Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-B

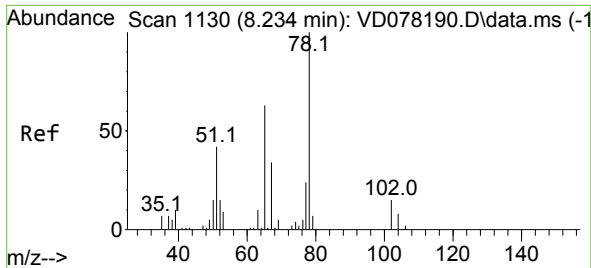
Tgt Ion: 43 Resp: 148  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.7 46.1#



#31  
Cyclohexane  
Concen: 1.218 ug/l  
RT: 7.887 min Scan# 1071  
Delta R.T. 0.006 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

Tgt Ion: 56 Resp: 3309  
Ion Ratio Lower Upper  
56 100  
69 135.5 28.6 43.0#  
84 90.9 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 47.306 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VD078214.D

Acq: 23 Jan 2024 17:56

Instrument :

MSVOA\_D

ClientSampleId :

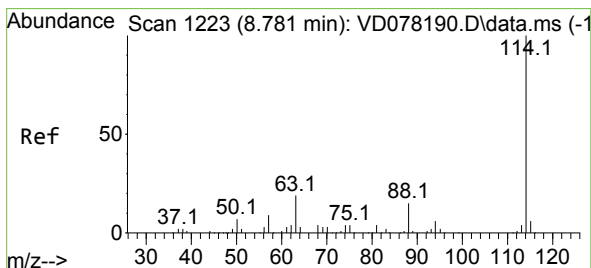
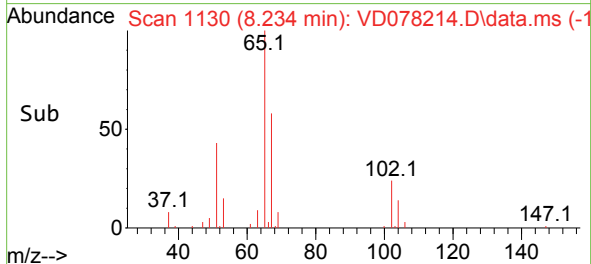
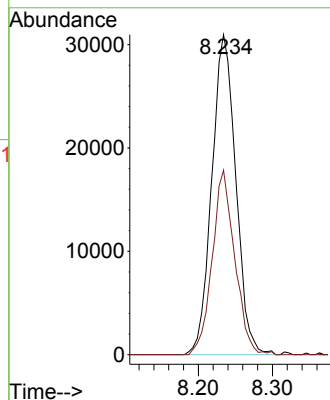
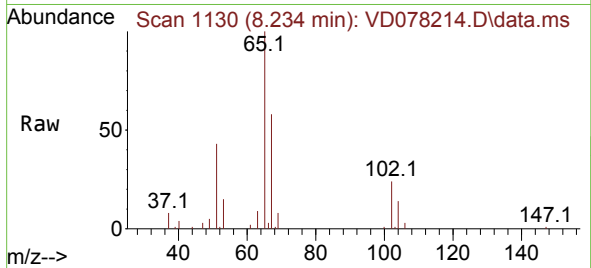
MH-B

Tgt Ion: 65 Resp: 69526

Ion Ratio Lower Upper

65 100

67 54.2 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.000 min

Lab File: VD078214.D

Acq: 23 Jan 2024 17:56

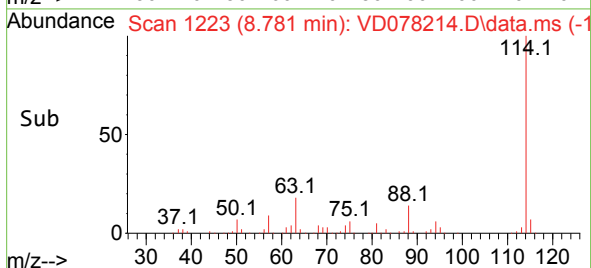
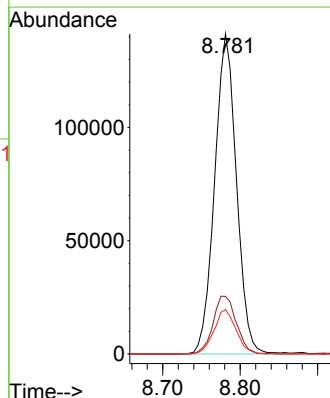
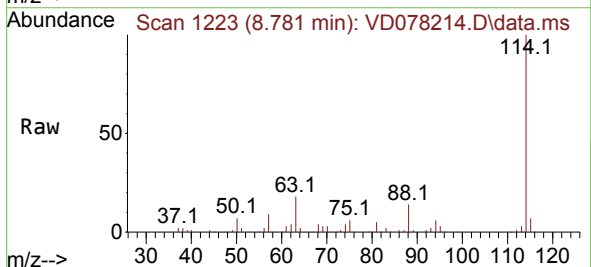
Tgt Ion:114 Resp: 276269

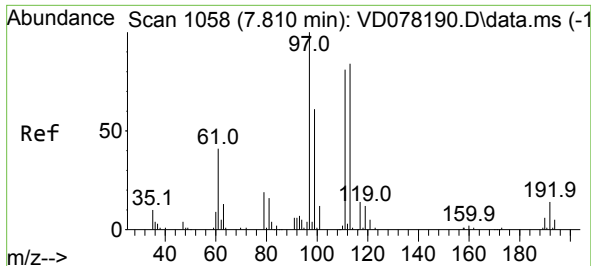
Ion Ratio Lower Upper

114 100

63 18.0 0.0 33.4

88 13.9 0.0 26.2





#35

Dibromofluoromethane

Concen: 47.428 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VD078214.D

Acq: 23 Jan 2024 17:56

Instrument :

MSVOA\_D

ClientSampleId :

MH-B

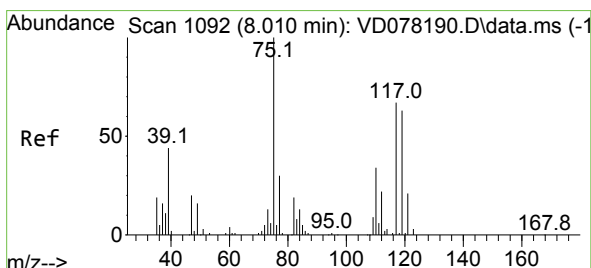
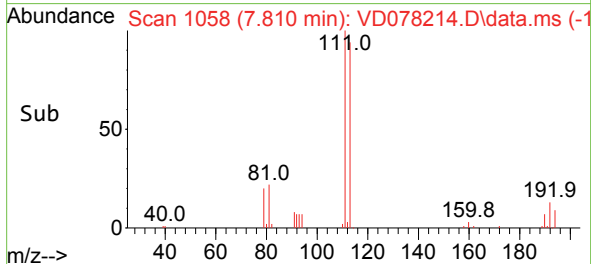
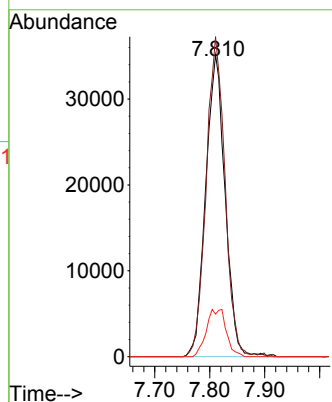
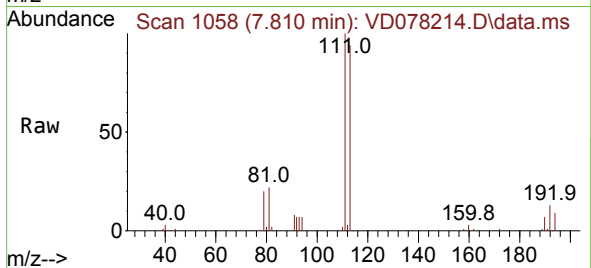
Tgt Ion:113 Resp: 86234

Ion Ratio Lower Upper

113 100

111 102.3 84.7 127.1

192 16.1 16.8 25.2#



#36

1,1-Dichloropropene

Concen: 3.720 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD078214.D

Acq: 23 Jan 2024 17:56

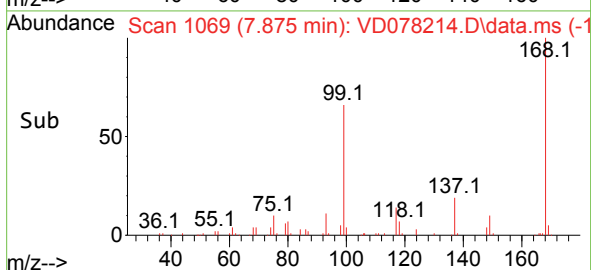
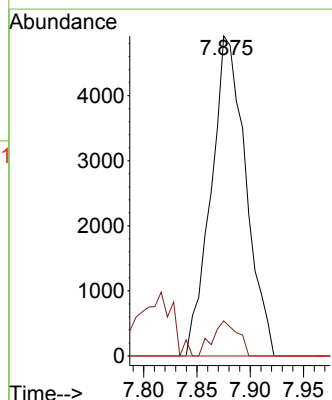
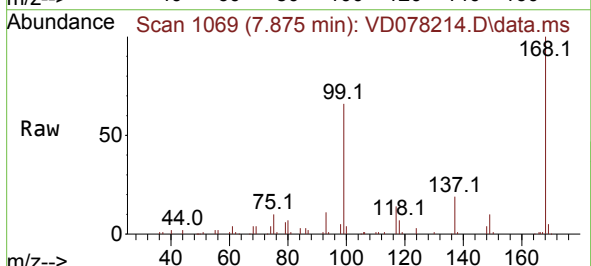
Tgt Ion: 75 Resp: 11122

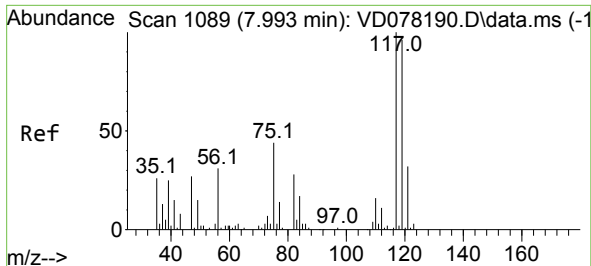
Ion Ratio Lower Upper

75 100

110 8.0 19.9 59.6#

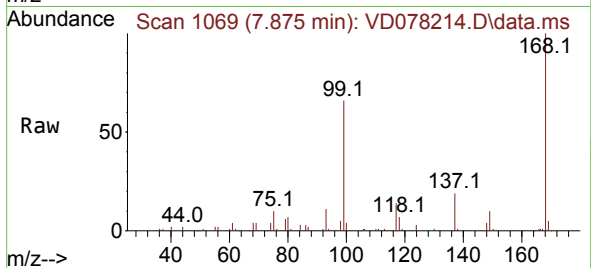
77 0.0 24.7 37.1#



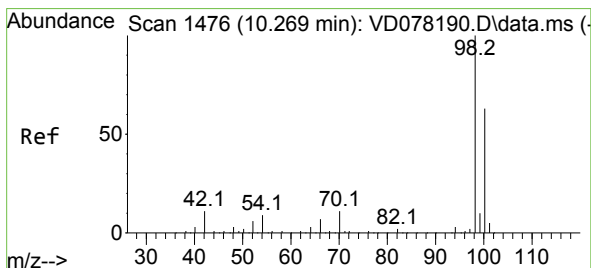
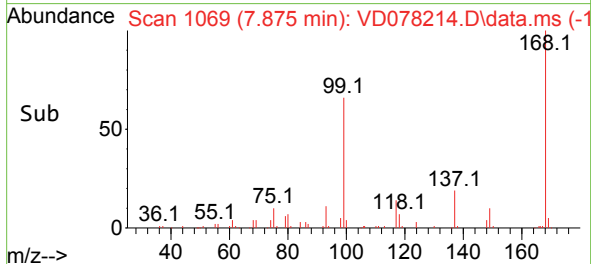
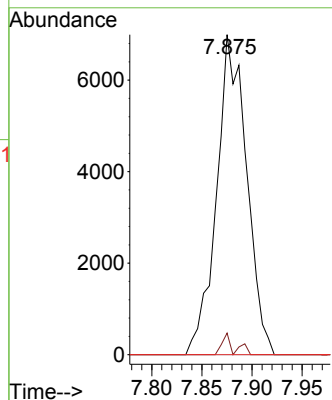


#38  
Carbon Tetrachloride  
Concen: 4.928 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.118 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-B

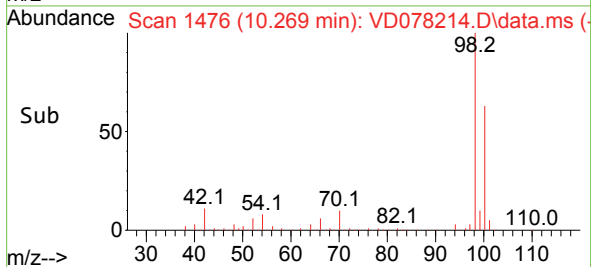
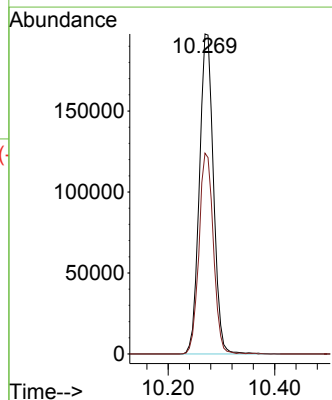
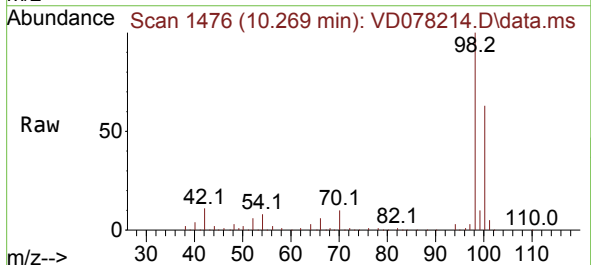


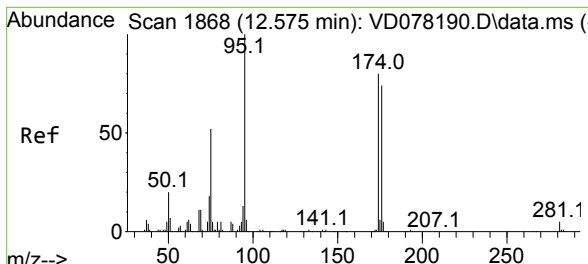
Tgt Ion:117 Resp: 14551  
Ion Ratio Lower Upper  
117 100  
119 6.8 78.0 117.0#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 50.344 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

Tgt Ion: 98 Resp: 362454  
Ion Ratio Lower Upper  
98 100  
100 64.1 50.3 75.5

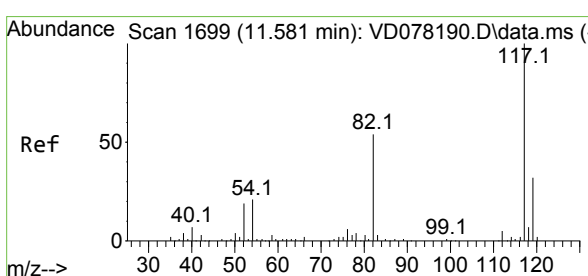
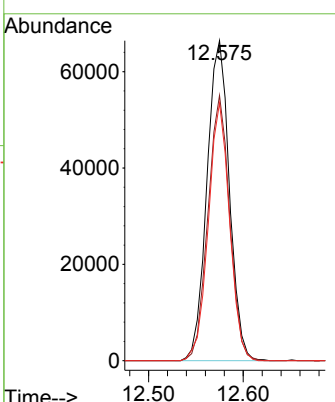
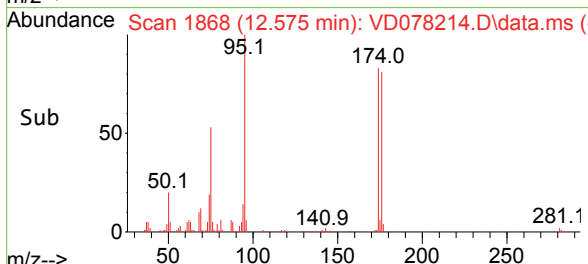
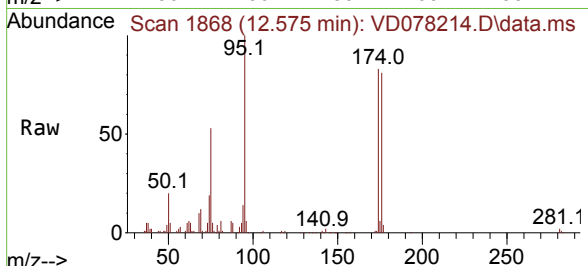




#62  
 4-Bromofluorobenzene  
 Concen: 52.375 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. 0.000 min  
 Lab File: VD078214.D  
 Acq: 23 Jan 2024 17:56

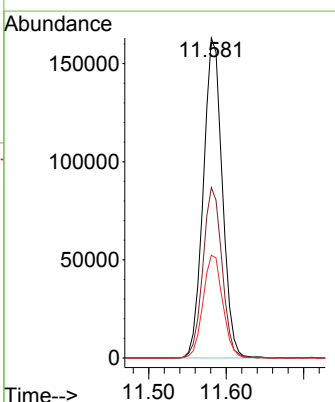
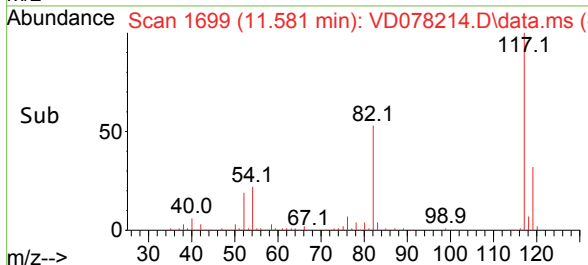
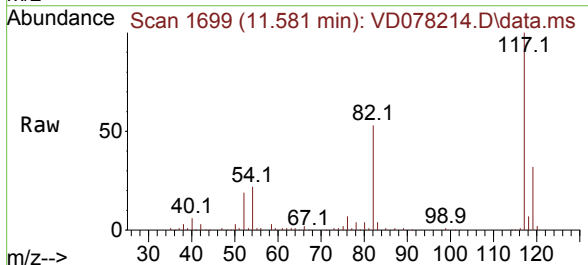
Instrument : MSVOA\_D  
 ClientSampleId : MH-B

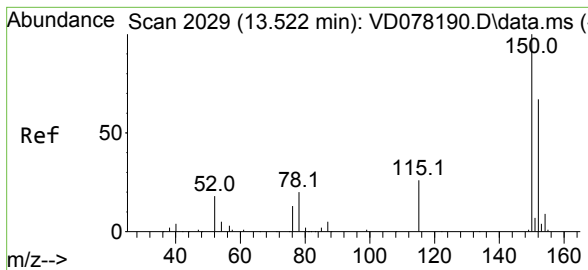
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 109352 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 80.3  | 0.0   | 201.8  |
| 176       | 76.1  | 0.0   | 191.8  |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.581 min Scan# 1699  
 Delta R.T. 0.000 min  
 Lab File: VD078214.D  
 Acq: 23 Jan 2024 17:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 276992 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 53.3  | 38.3  | 57.5   |
| 119       | 32.1  | 25.0  | 37.4   |

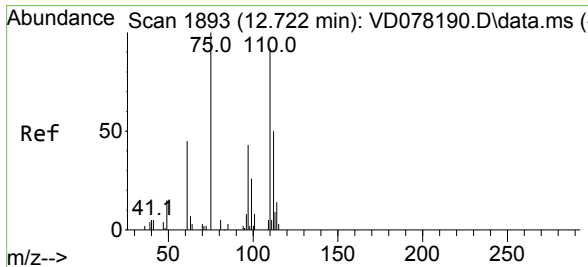
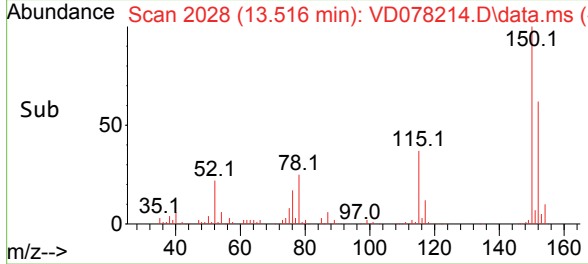
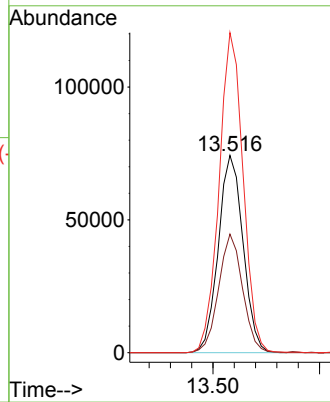
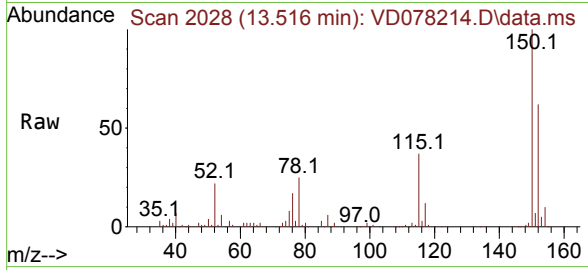




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.516 min Scan# 2028  
 Delta R.T. -0.006 min  
 Lab File: VD078214.D  
 Acq: 23 Jan 2024 17:56

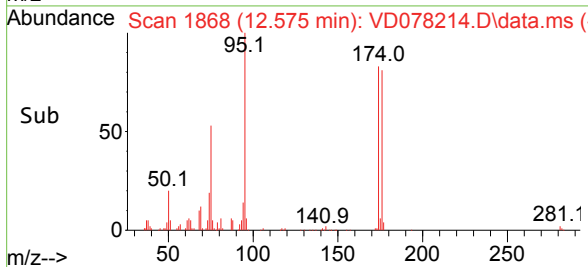
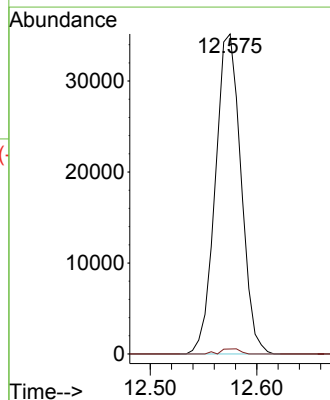
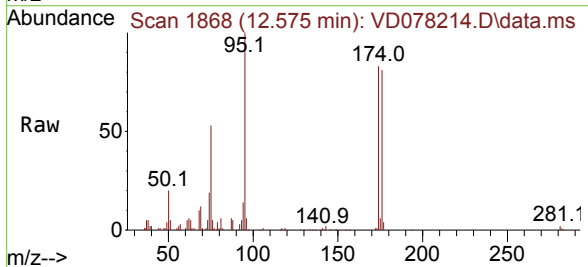
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MH-B

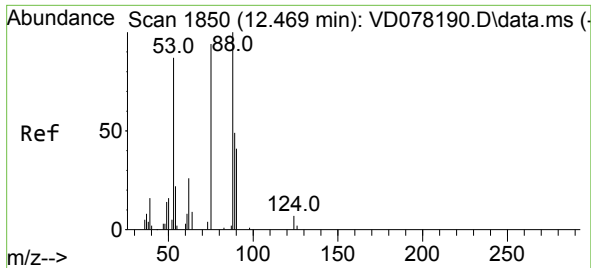
Tgt Ion:152 Resp: 119588  
 Ion Ratio Lower Upper  
 152 100  
 115 58.3 27.1 81.3  
 150 157.6 0.0 353.6



#76  
 1,2,3-Trichloropropane  
 Concen: 51.150 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. -0.147 min  
 Lab File: VD078214.D  
 Acq: 23 Jan 2024 17:56

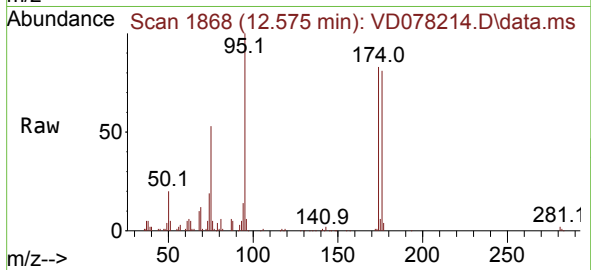
Tgt Ion: 75 Resp: 58669  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 110.179 ug/l  
RT: 12.575 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VD078214.D  
Acq: 23 Jan 2024 17:56

Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-B



| Tgt Ion: | 75    | Resp: | 58669 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.0   | 63.0  | 94.4# |
| 89       | 0.0   | 37.9  | 56.9# |

