

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022124\  
 Data File : VD078499.D  
 Acq On : 21 Feb 2024 15:18  
 Operator : RP/MD  
 Sample : P1538-04  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL/A  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20241099-COMPOSITE-35N-N-4-04

Quant Time: Feb 22 00:04:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 14 01:16:20 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.875  | 168  | 118028   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.781  | 114  | 236856   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 282178   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152  | 137449   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 50289    | 39.406   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 78.820%  |
| 35) Dibromofluoromethane    | 7.804  | 113   | 70438    | 46.817   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 93.640%  |
| 50) Toluene-d8              | 10.269 | 98    | 305217   | 50.712   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 101.420% |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 110397   | 63.032   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 126.060% |

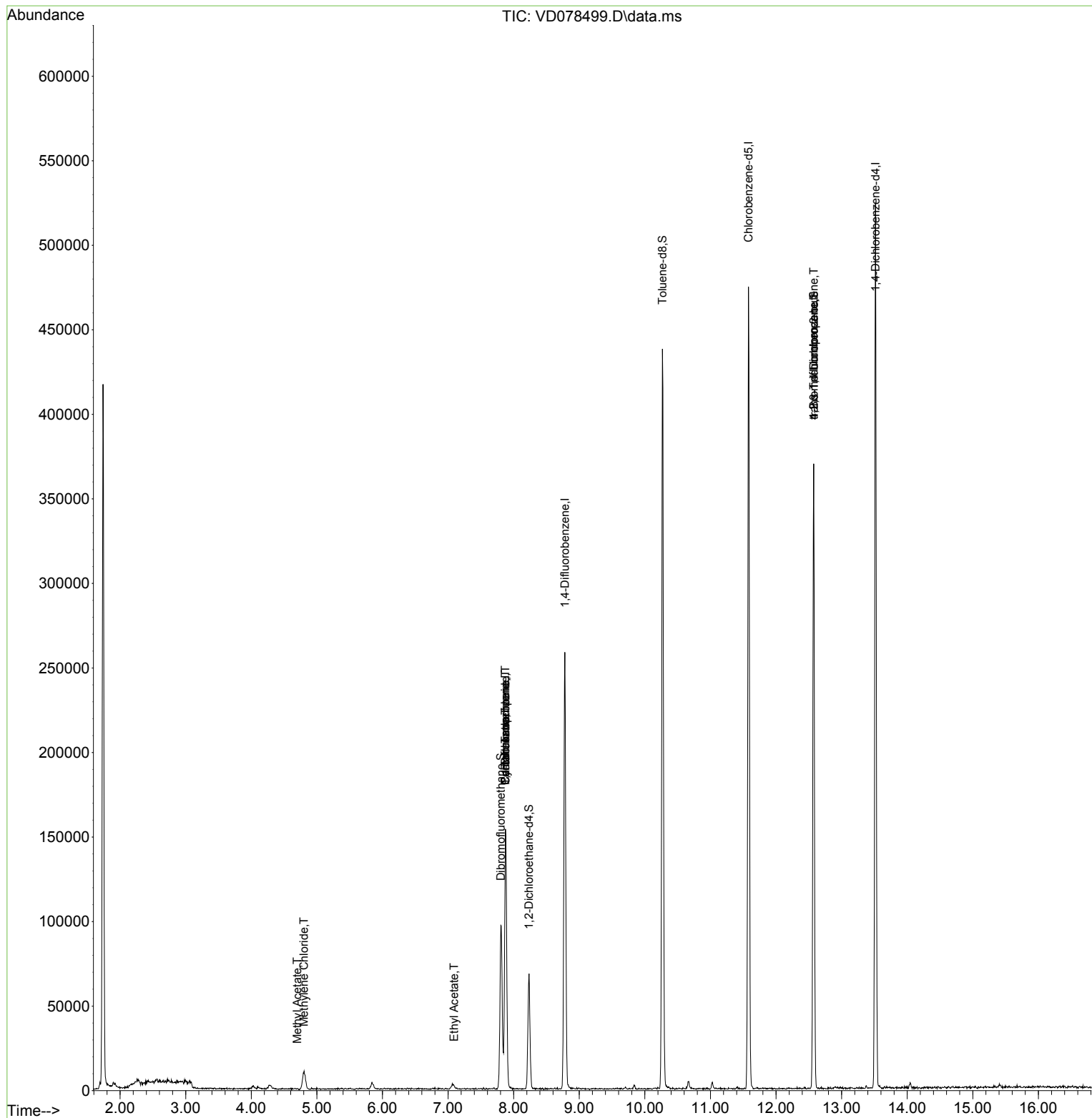
| Target Compounds              |        |     |       |           | Qvalue |     |
|-------------------------------|--------|-----|-------|-----------|--------|-----|
| 16) Acetone                   | 4.028  | 43  | 2894  | Below Cal | #      | 78  |
| 18) Methyl Acetate            | 4.699  | 43  | 56    | 3.996     | ug/l # | 42  |
| 20) Methylene Chloride        | 4.805  | 84  | 8268  | 2.803     | ug/l # | 82  |
| 25) 2-Butanone                | 7.093  | 43  | 936   | Below Cal | #      | 37  |
| 31) Cyclohexane               | 7.875  | 56  | 2438  | 1.129     | ug/l # | 36  |
| 36) 1,1-Dichloropropene       | 7.875  | 75  | 9690  | 4.146     | ug/l # | 45  |
| 37) Ethyl Acetate             | 7.093  | 43  | 936   | 1.142     | ug/l # | 62  |
| 38) Carbon Tetrachloride      | 7.875  | 117 | 11881 | 5.133     | ug/l # | 17  |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75  | 58481 | 50.117    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75  | 58481 | 104.043   | ug/l # | 17  |

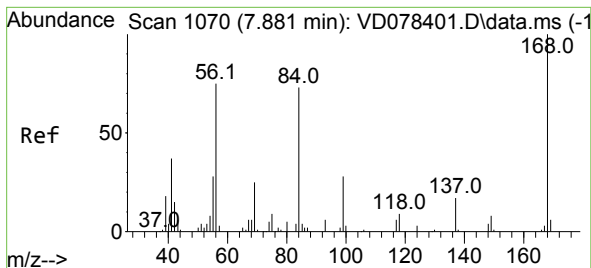
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 10 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :  
20241099-COMPOSITE-35N-N-4-04

Quant Time: Feb 22 00:04:46 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 14 01:16:20 2024  
Response via : Initial Calibration

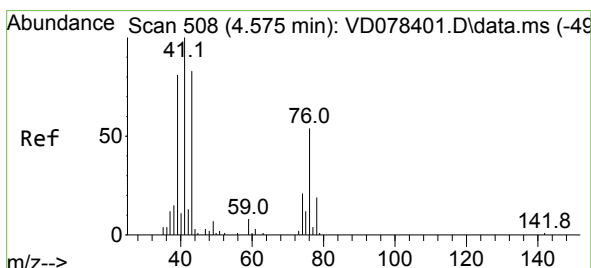
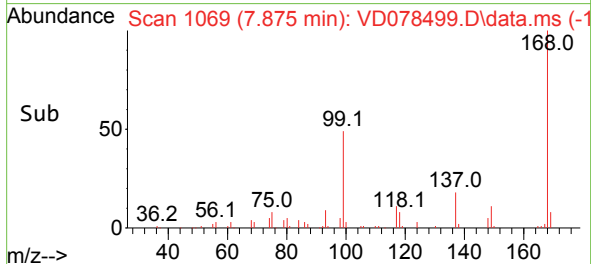
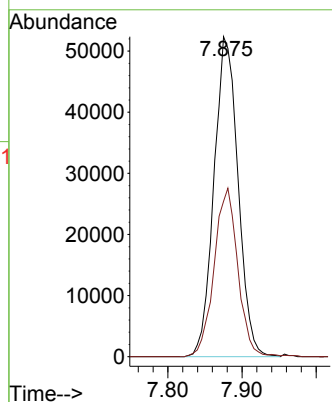
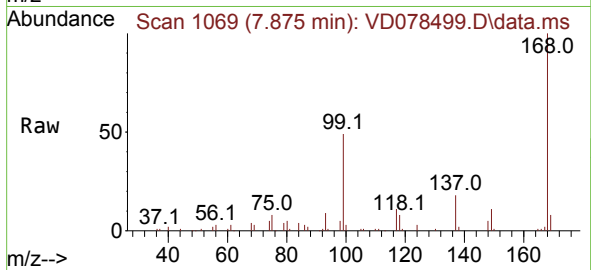




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1070  
Delta R.T. -0.006 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

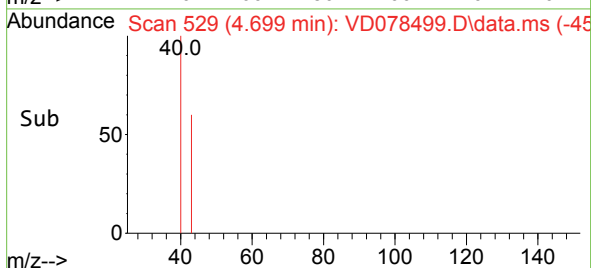
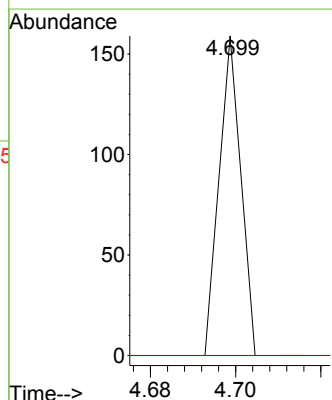
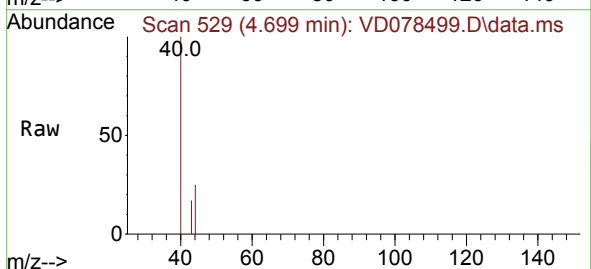
Instrument : MSVOA\_D  
ClientSampleId : 20241099-COMPOSITE-35N-N-4-04

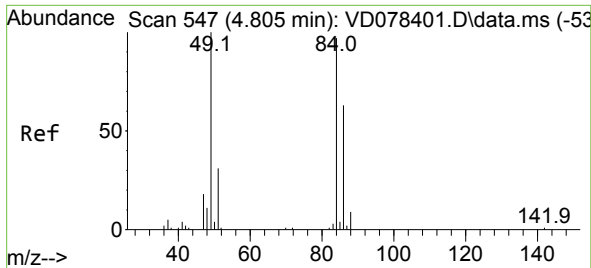
Tgt Ion:168 Resp: 118028  
Ion Ratio Lower Upper  
168 100  
99 48.5 36.7 55.1



#18  
Methyl Acetate  
Concen: 3.996 ug/l  
RT: 4.699 min Scan# 529  
Delta R.T. 0.124 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

Tgt Ion: 43 Resp: 56  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.4 39.6#

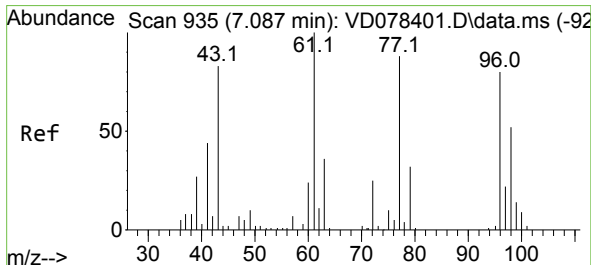
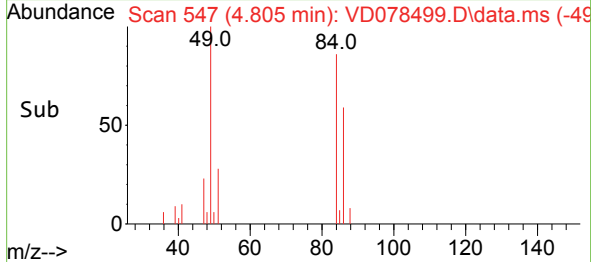
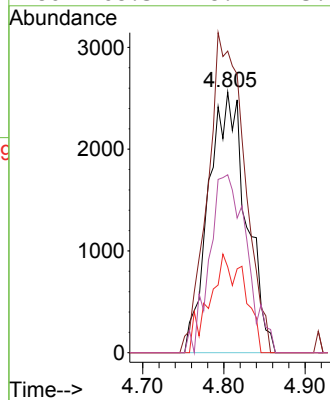
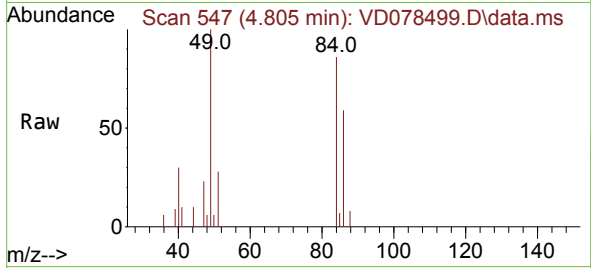




#20  
Methylene Chloride  
Concen: 2.803 ug/l  
RT: 4.805 min Scan# 547  
Delta R.T. -0.000 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

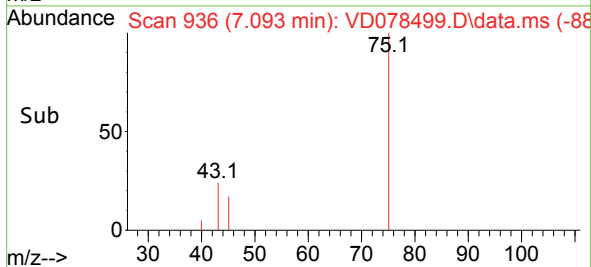
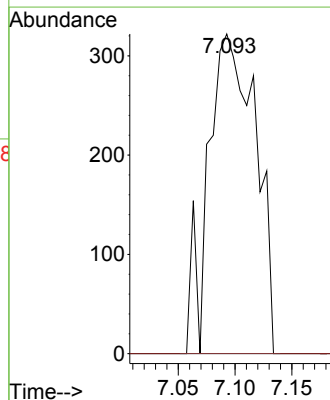
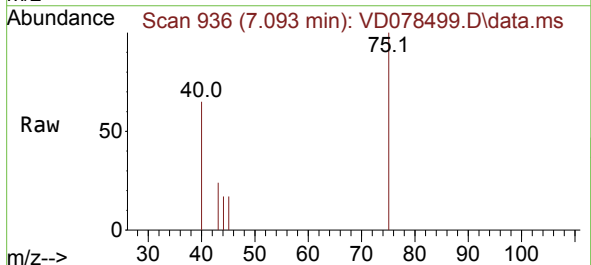
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241099-COMPOSITE-35N-N-4-04

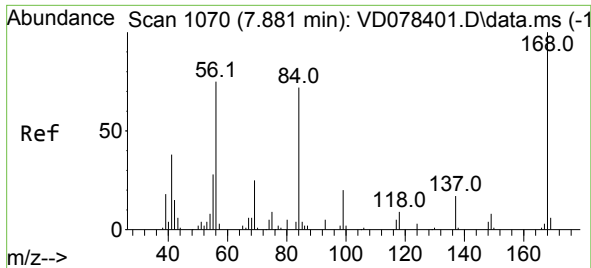
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 8268   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 115.7 | 71.4  | 107.2# |
| 51       | 32.9  | 24.5  | 36.7   |
| 86       | 68.3  | 48.7  | 73.1   |



#25  
2-Butanone  
Concen: Below Cal  
RT: 7.093 min Scan# 936  
Delta R.T. 0.006 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

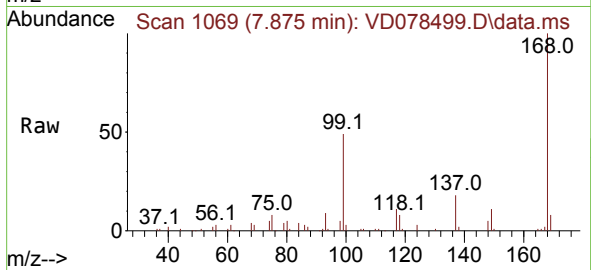
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 936   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 30.7  | 46.1# |



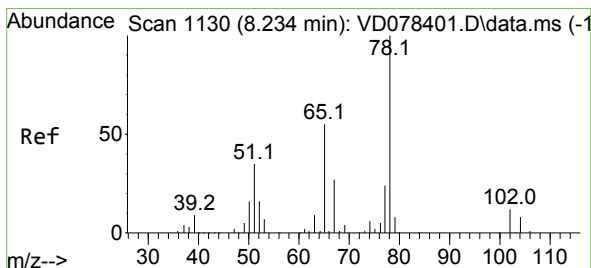
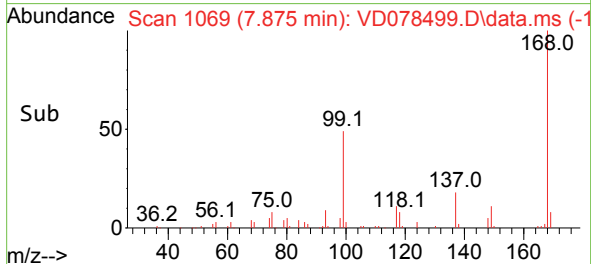
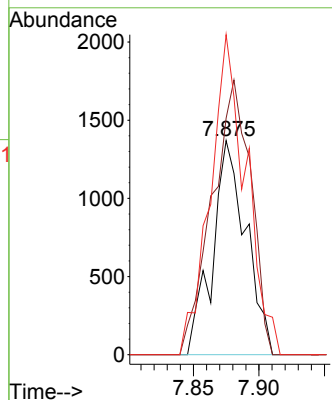


#31  
Cyclohexane  
Concen: 1.129 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

Instrument :  
MSVOA\_D  
ClientSampleId :  
20241099-COMPOSITE-35N-N-4-04

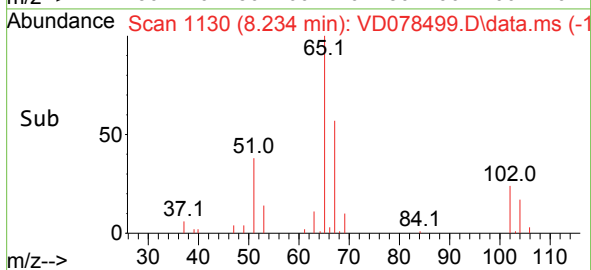
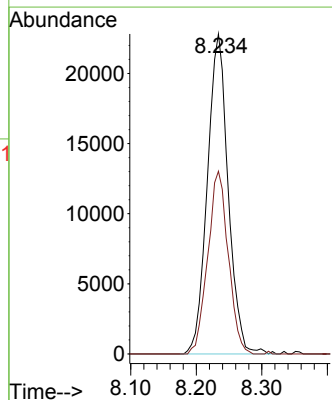
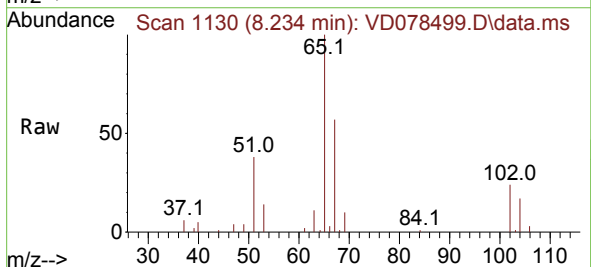


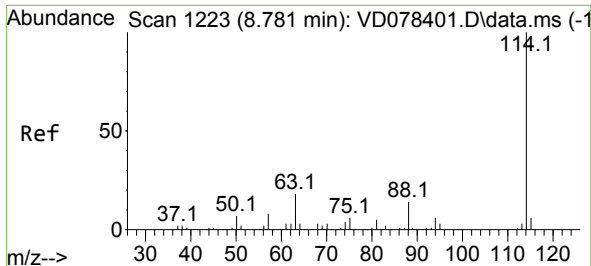
Tgt Ion: 56 Resp: 2438  
Ion Ratio Lower Upper  
56 100  
69 110.4 28.6 43.0#  
84 149.4 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 39.406 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. -0.000 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

Tgt Ion: 65 Resp: 50289  
Ion Ratio Lower Upper  
65 100  
67 56.3 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD078499.D

Acq: 21 Feb 2024 15:18

Instrument :

MSVOA\_D

ClientSampleId :

20241099-COMPOSITE-35N-N-4-04

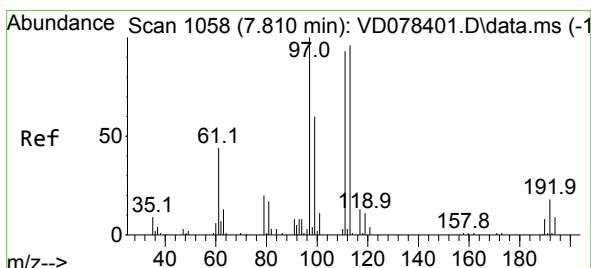
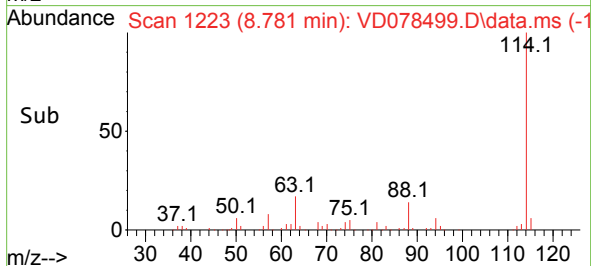
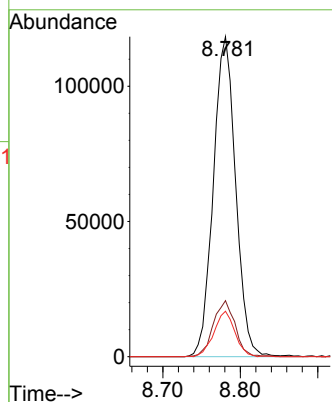
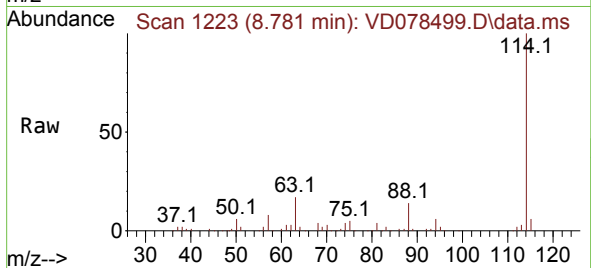
Tgt Ion:114 Resp: 236856

Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.4

88 14.2 0.0 26.2



#35

Dibromofluoromethane

Concen: 46.817 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078499.D

Acq: 21 Feb 2024 15:18

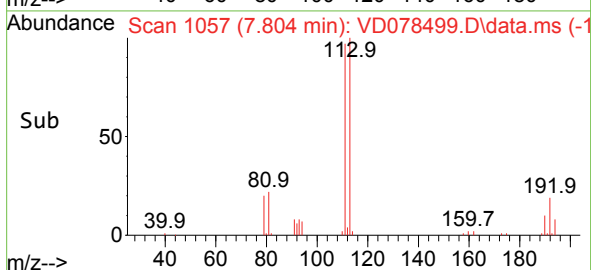
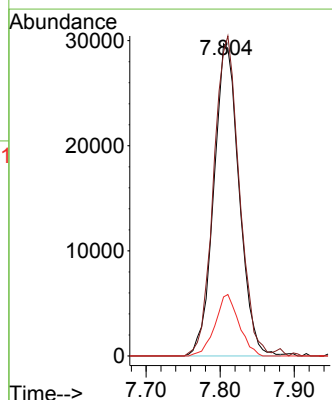
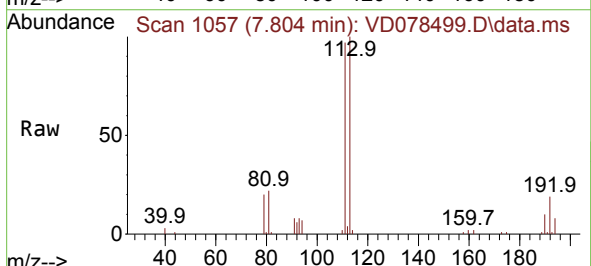
Tgt Ion:113 Resp: 70438

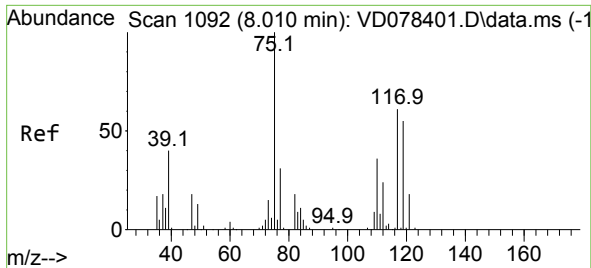
Ion Ratio Lower Upper

113 100

111 104.1 84.7 127.1

192 18.6 16.8 25.2

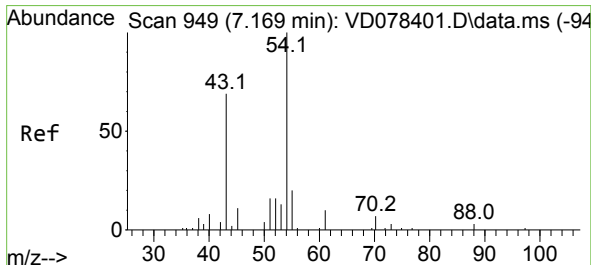
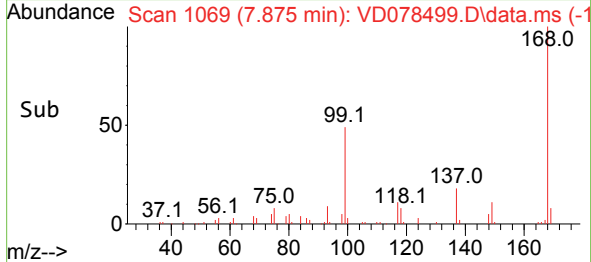
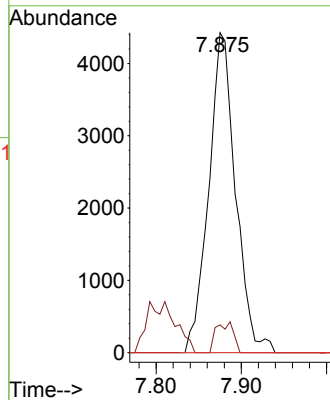
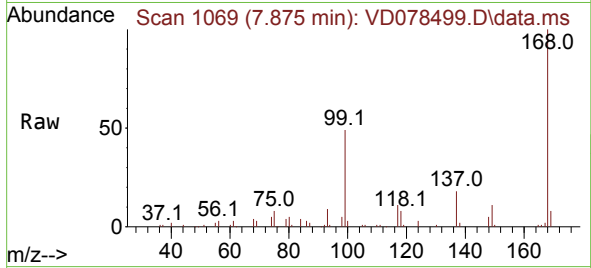




#36  
1,1-Dichloropropene  
Concen: 4.146 ug/l  
RT: 7.875 min Scan# 1092  
Delta R.T. -0.135 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

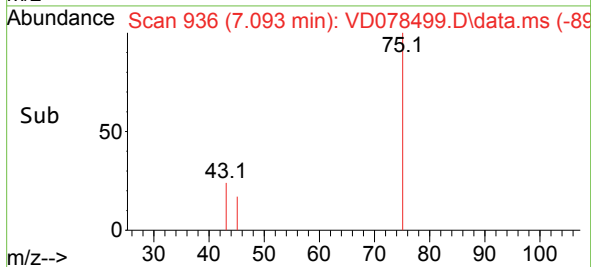
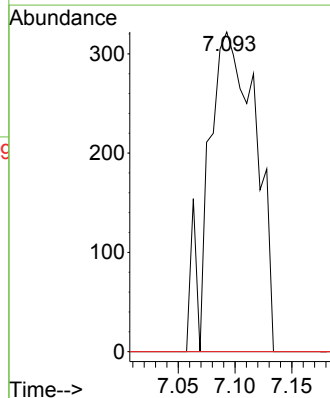
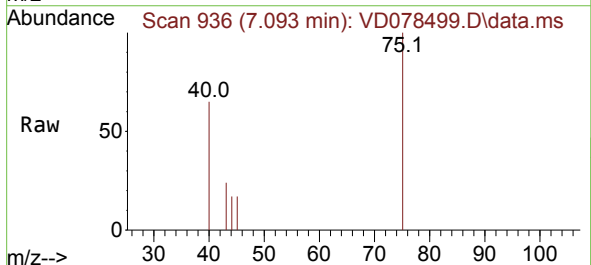
Instrument : MSVOA\_D  
ClientSampleId : 20241099-COMPOSITE-35N-N-4-04

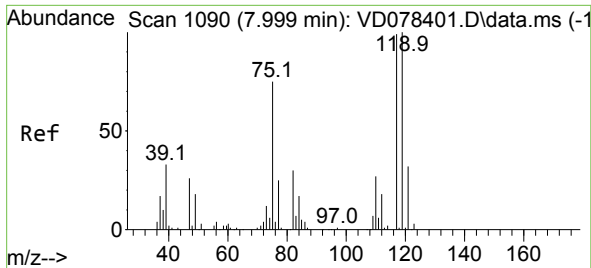
Tgt Ion: 75 Resp: 9690  
Ion Ratio Lower Upper  
75 100  
110 6.2 19.9 59.6#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 1.142 ug/l  
RT: 7.093 min Scan# 936  
Delta R.T. -0.077 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

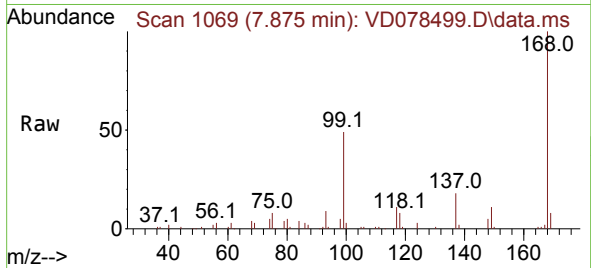
Tgt Ion: 43 Resp: 936  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.9 22.3#  
70 0.0 10.0 15.0#



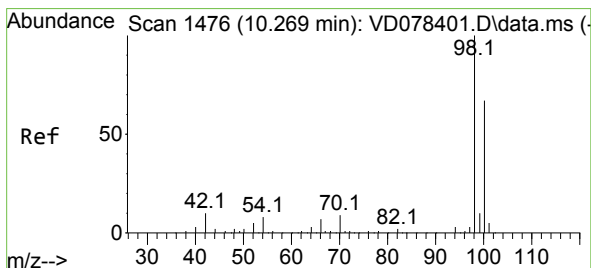
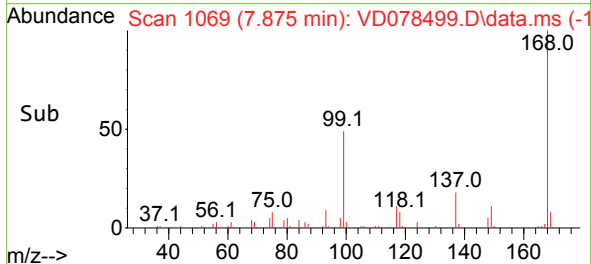
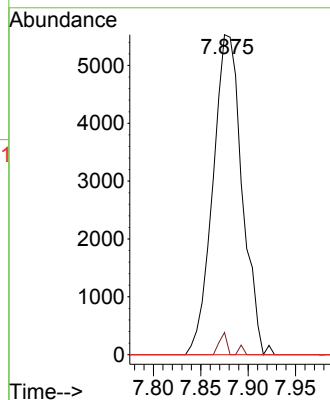


#38  
Carbon Tetrachloride  
Concen: 5.133 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.124 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

Instrument : MSVOA\_D  
ClientSampleId : 20241099-COMPOSITE-35N-N-4-04

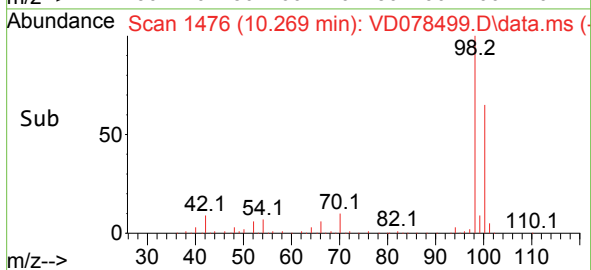
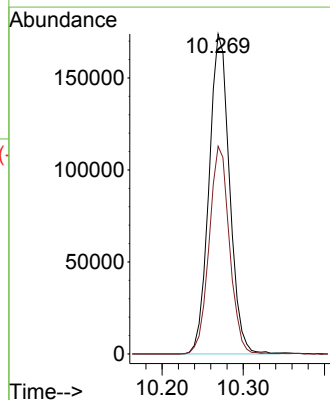
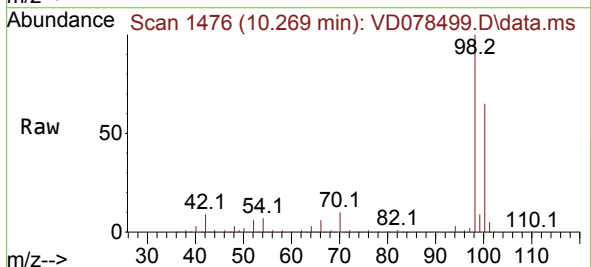


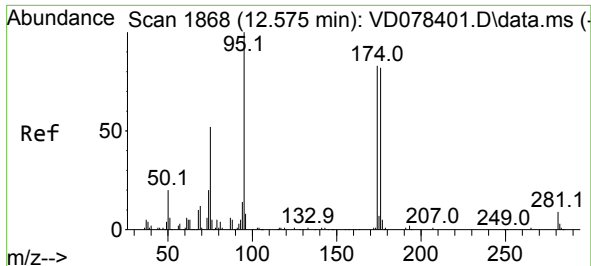
Tgt Ion:117 Resp: 11881  
Ion Ratio Lower Upper  
117 100  
119 6.9 78.0 117.0#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 50.712 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

Tgt Ion: 98 Resp: 305217  
Ion Ratio Lower Upper  
98 100  
100 64.3 50.3 75.5

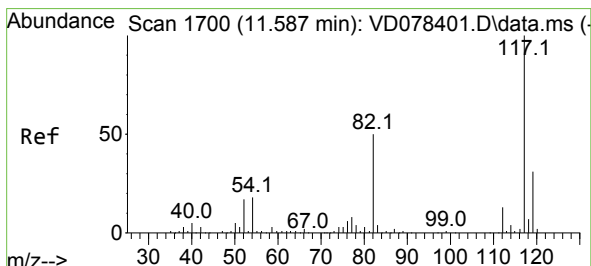
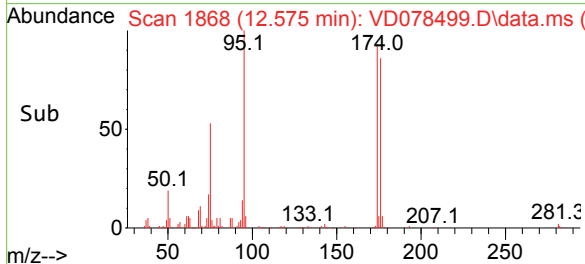
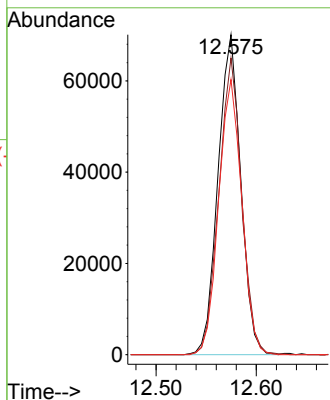
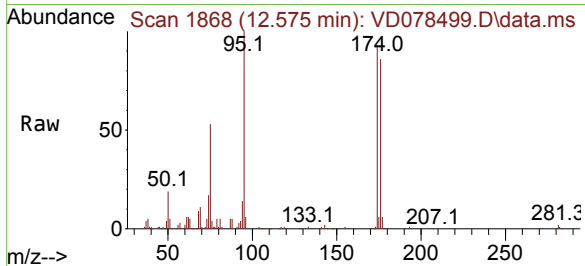




#62  
4-Bromofluorobenzene  
Concen: 63.032 ug/l  
RT: 12.575 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

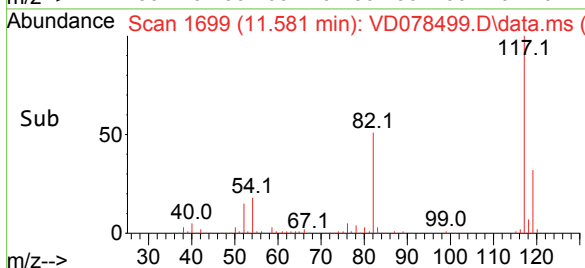
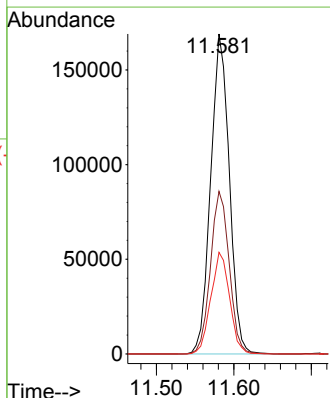
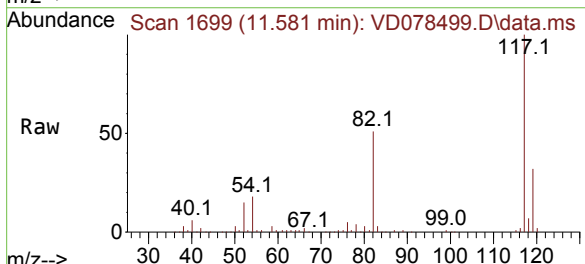
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241099-COMPOSITE-35N-N-4-04

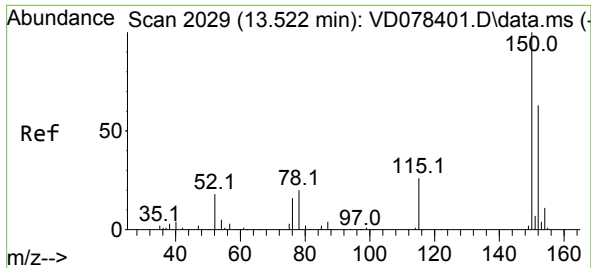
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 110397 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 92.6  | 0.0   | 201.8  |
| 176      | 87.2  | 0.0   | 191.8  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.006 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 282178 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 50.8  | 38.3  | 57.5   |
| 119      | 31.7  | 25.0  | 37.4   |

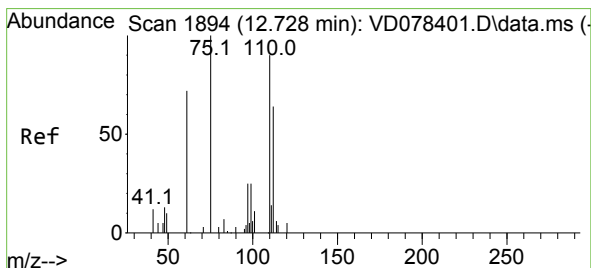
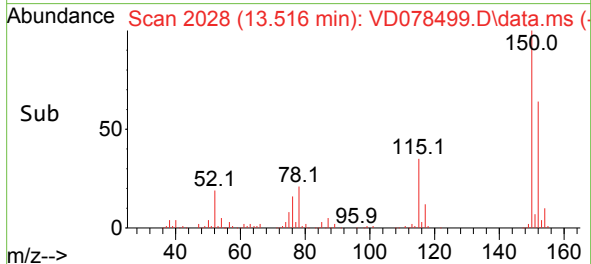
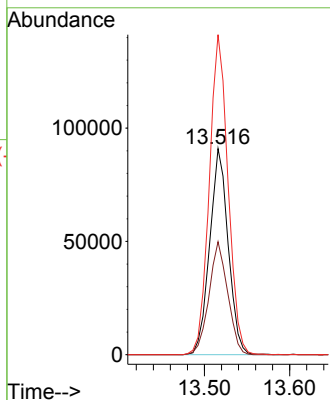
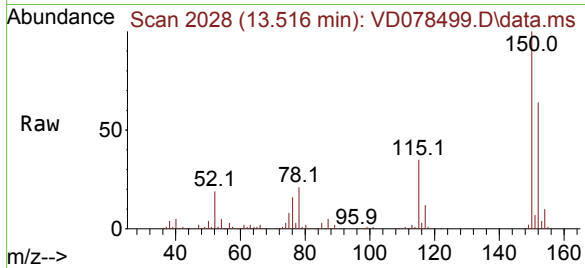




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2029  
Delta R.T. -0.006 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

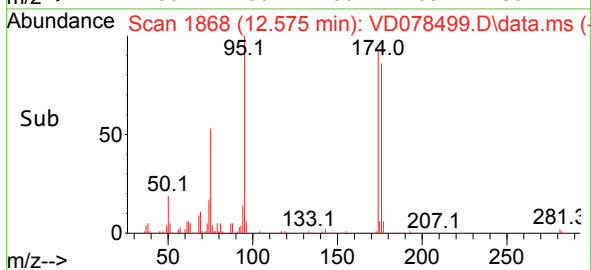
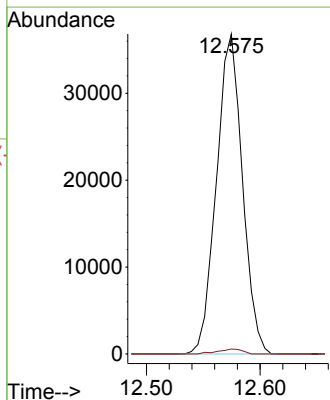
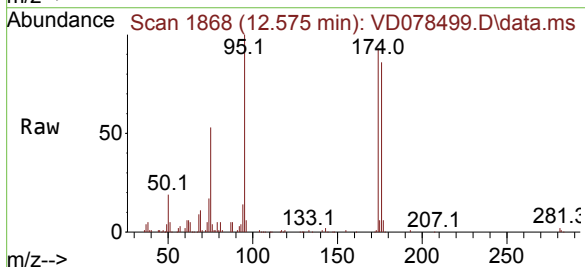
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241099-COMPOSITE-35N-N-4-04

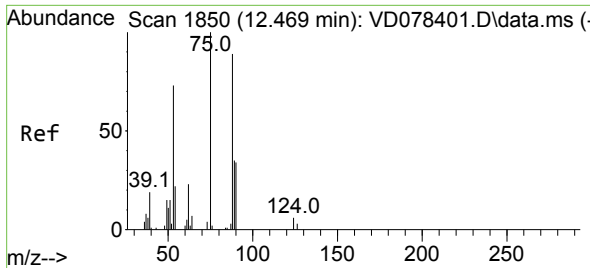
Tgt Ion:152 Resp: 137449  
Ion Ratio Lower Upper  
152 100  
115 55.3 27.1 81.3  
150 156.8 0.0 353.6



#76  
1,2,3-Trichloropropane  
Concen: 50.117 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD078499.D  
Acq: 21 Feb 2024 15:18

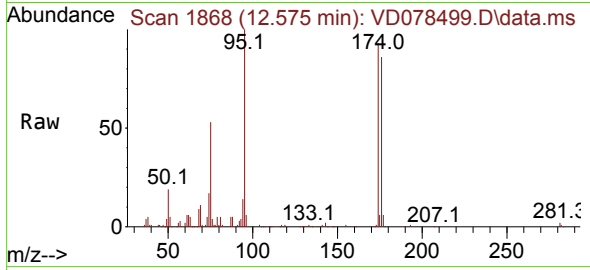
Tgt Ion: 75 Resp: 58481  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 104.043 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. 0.106 min  
 Lab File: VD078499.D  
 Acq: 21 Feb 2024 15:18

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20241099-COMPOSITE-35N-N-4-04



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 58481 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.1   | 63.0  | 94.4# |
| 89       | 0.0   | 37.9  | 56.9# |

