

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122223\  
 Data File : VD078069.D  
 Acq On : 22 Dec 2023 17:34  
 Operator : RP/MD  
 Sample : 05879-07  
 Misc : 2.55G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 23 03:39:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 14:48:10 2023  
 Response via : Initial Calibration

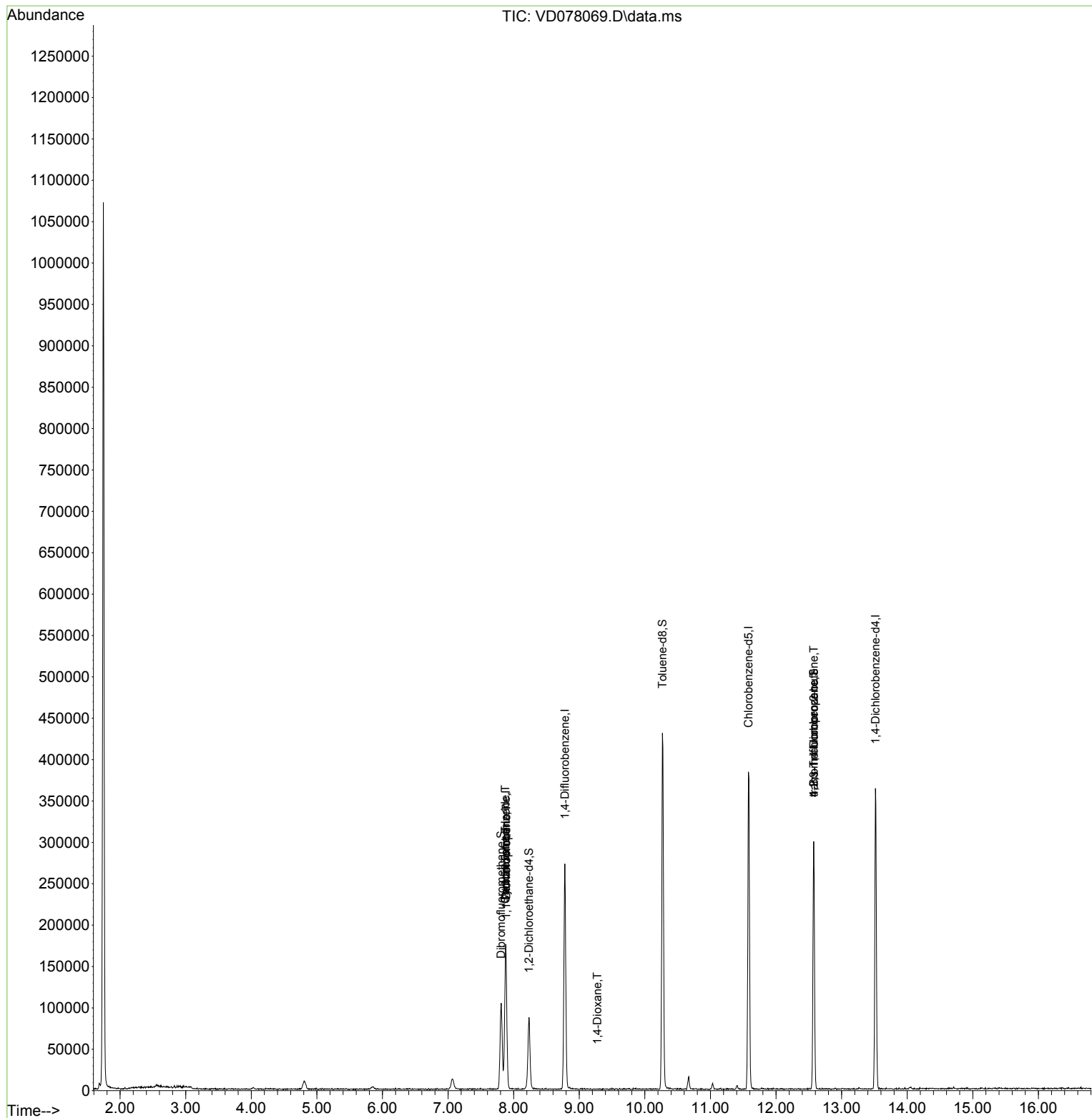
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.881  | 168   | 130907   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 238044   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 229149   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 98716    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 63596    | 41.228    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 82.460%  |
| 35) Dibromofluoromethane      | 7.810  | 113   | 74777    | 44.846    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 89.700%  |
| 50) Toluene-d8                | 10.269 | 98    | 304120   | 45.539    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 91.080%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 86115    | 43.130    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 86.260%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.051  | 59    | 340      | Below Cal | #      | 73       |
| 16) Acetone                   | 4.016  | 43    | 1271     | Below Cal |        | 93       |
| 20) Methylene Chloride        | 4.816  | 84    | 7250     | Below Cal | #      | 74       |
| 25) 2-Butanone                | 7.104  | 43    | 177      | Below Cal | #      | 37       |
| 31) Cyclohexane               | 7.875  | 56    | 3080     | 1.123     | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 7.887  | 75    | 10968    | 4.112     | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 13387    | 5.035     | ug/l # | 16       |
| 49) 1,4-Dioxane               | 9.275  | 88    | 63       | 6.516     | ug/l # | 33       |
| 65) Chlorobenzene             | 11.616 | 112   | 56       | Below Cal | #      | 43       |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 45966    | 53.614    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 45966    | 108.625   | ug/l # | 18       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146   | 55       | Below Cal | #      | 26       |
| -----                         |        |       |          |           |        |          |

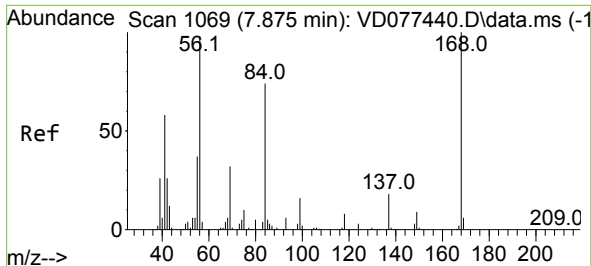
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 23 03:39:25 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 14 14:48:10 2023  
Response via : Initial Calibration

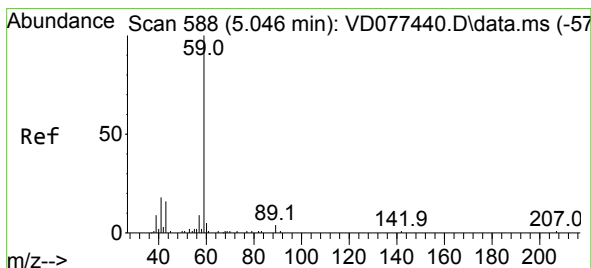
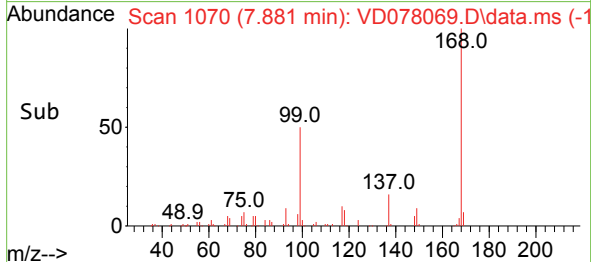
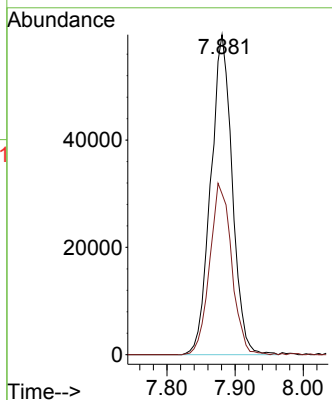
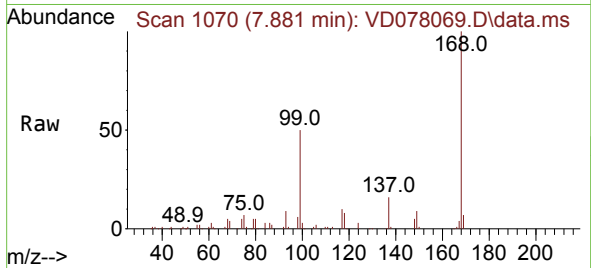




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

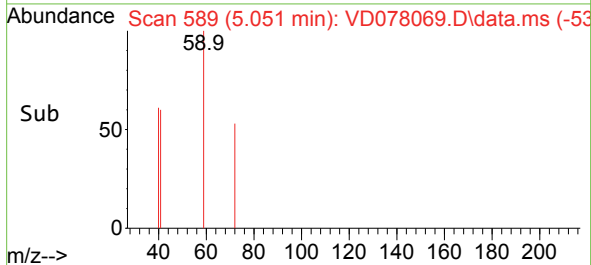
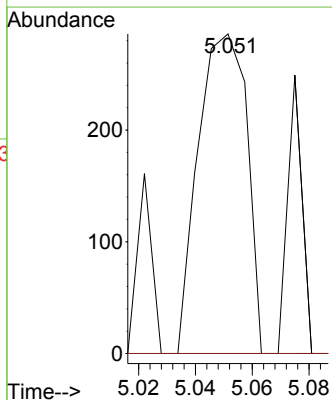
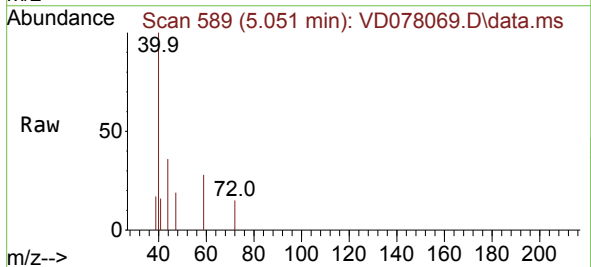
Instrument :  
MSVOA\_D  
ClientSampleId :

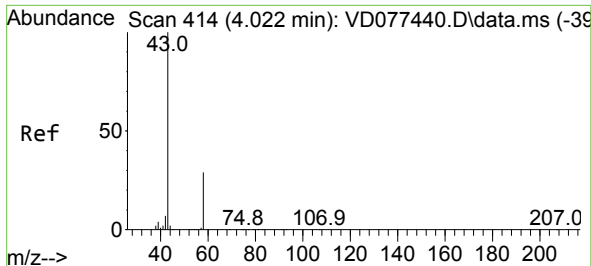
Tgt Ion:168 Resp: 130907  
Ion Ratio Lower Upper  
168 100  
99 50.3 36.7 55.1



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.051 min Scan# 589  
Delta R.T. 0.005 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

Tgt Ion: 59 Resp: 340  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

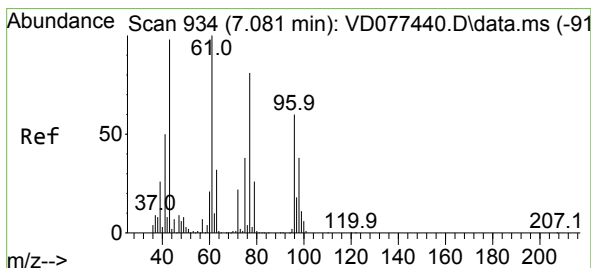
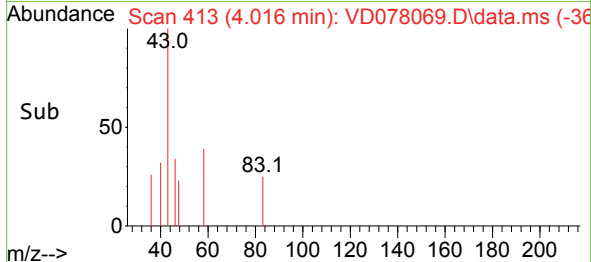
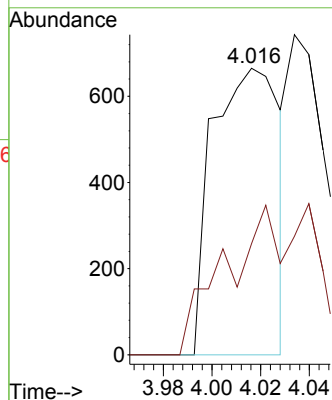
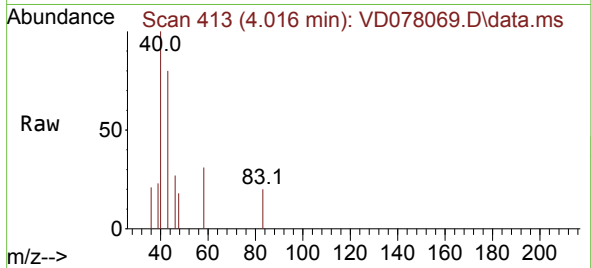




#16  
Acetone  
Concen: Below Cal  
RT: 4.016 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

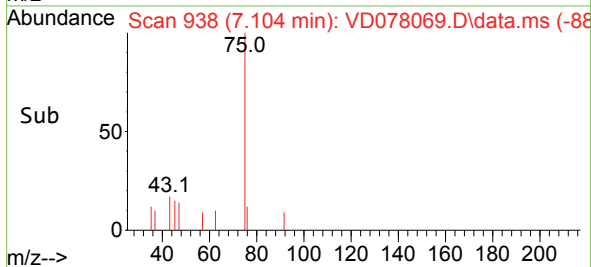
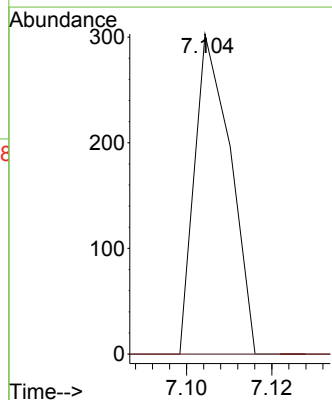
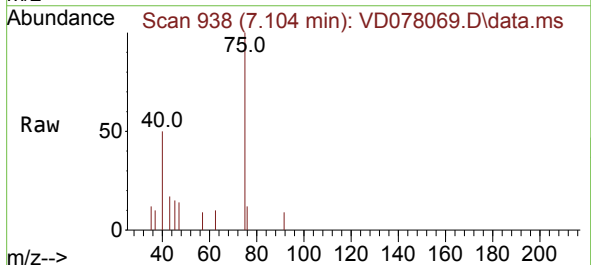
Instrument :  
MSVOA\_D  
ClientSampleId :

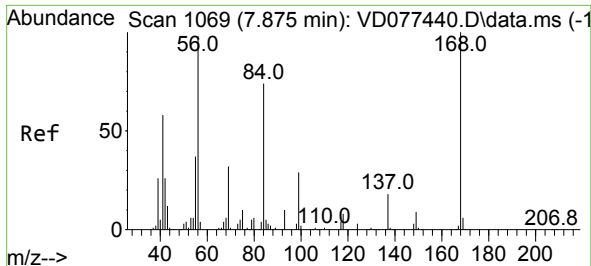
Tgt Ion: 43 Resp: 1271  
Ion Ratio Lower Upper  
43 100  
58 38.8 34.7 52.1



#25  
2-Butanone  
Concen: Below Cal  
RT: 7.104 min Scan# 938  
Delta R.T. 0.023 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

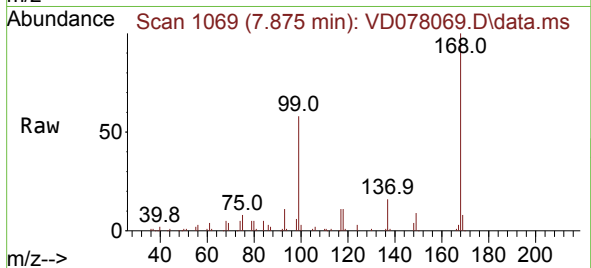
Tgt Ion: 43 Resp: 177  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.7 46.1#



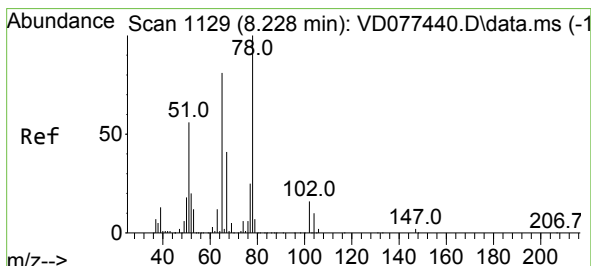
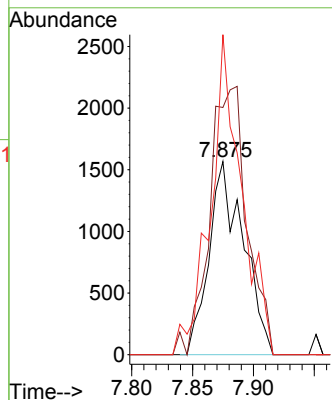
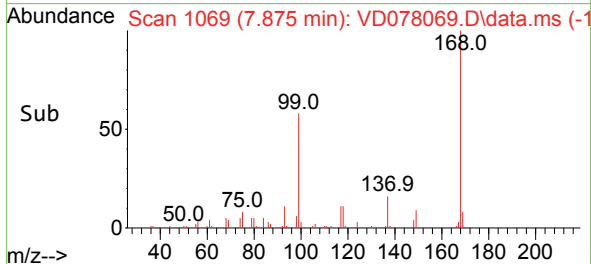


#31  
Cyclohexane  
Concen: 1.123 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.000 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

Instrument :  
MSVOA\_D  
ClientSampleId :

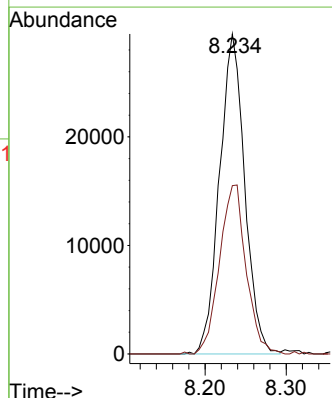
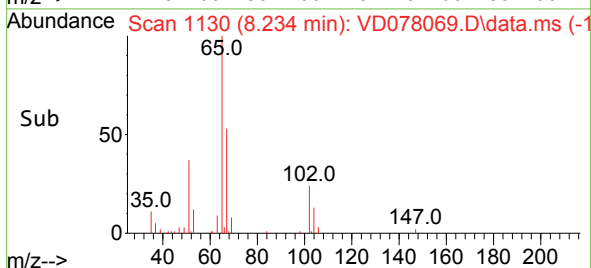
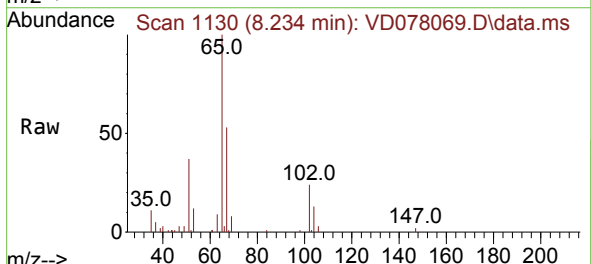


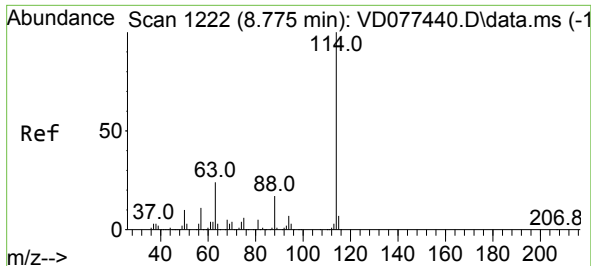
Tgt Ion: 56 Resp: 3080  
Ion Ratio Lower Upper  
56 100  
69 128.0 28.6 43.0#  
84 165.7 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 41.228 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

Tgt Ion: 65 Resp: 63596  
Ion Ratio Lower Upper  
65 100  
67 55.7 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD078069.D

Acq: 22 Dec 2023 17:34

Instrument :

MSVOA\_D

ClientSampleId :

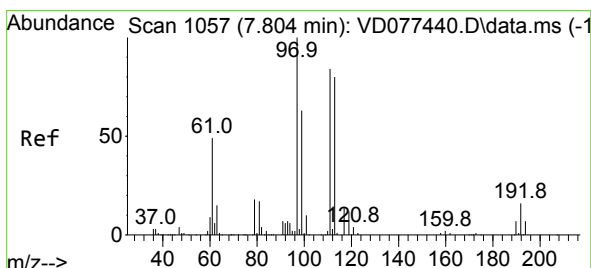
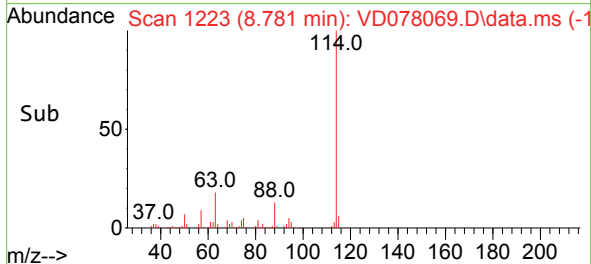
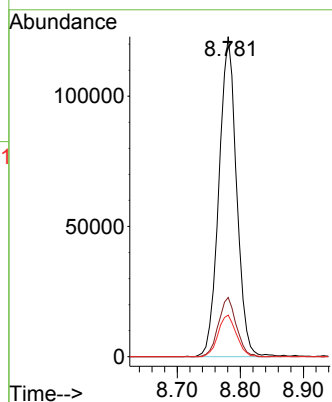
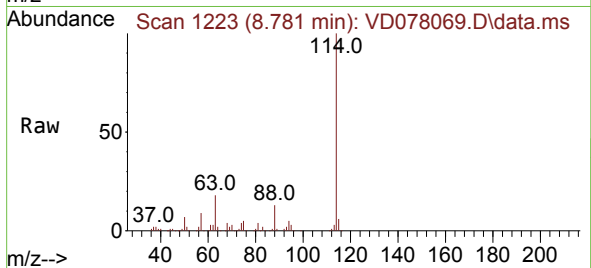
Tgt Ion:114 Resp: 238044

Ion Ratio Lower Upper

114 100

63 18.5 0.0 33.4

88 13.0 0.0 26.2



#35

Dibromofluoromethane

Concen: 44.846 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD078069.D

Acq: 22 Dec 2023 17:34

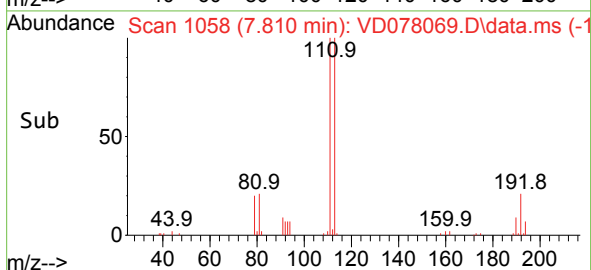
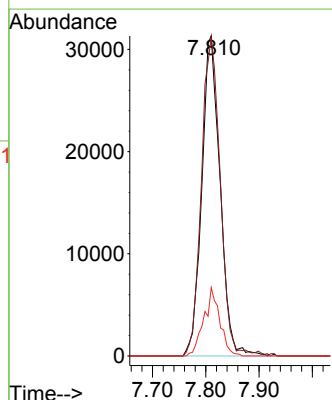
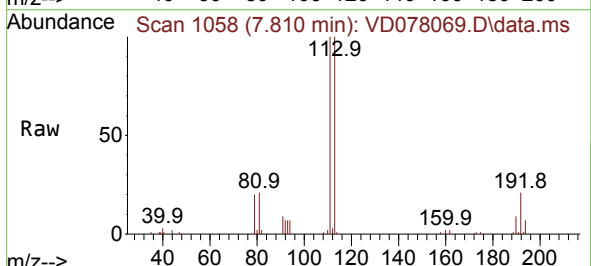
Tgt Ion:113 Resp: 74777

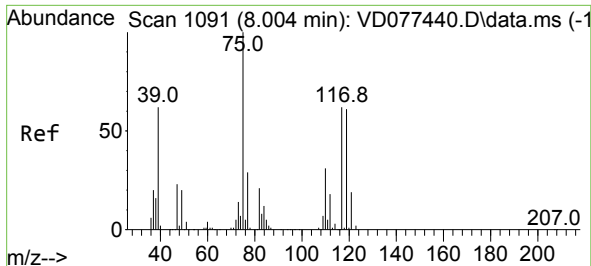
Ion Ratio Lower Upper

113 100

111 102.0 84.7 127.1

192 18.6 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.112 ug/l

RT: 7.887 min Scan# 10968

Delta R.T. -0.117 min

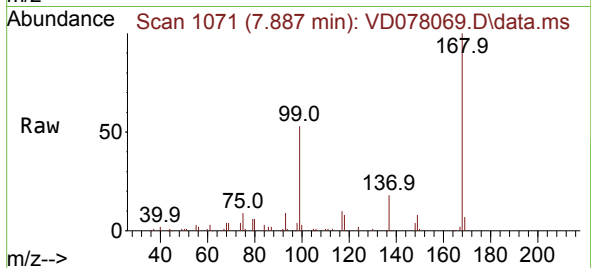
Lab File: VD078069.D

Acq: 22 Dec 2023 17:34

Instrument :

MSVOA\_D

ClientSampleId :



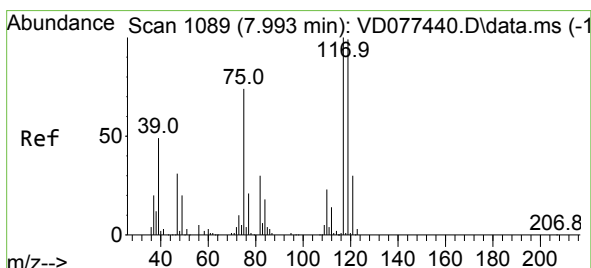
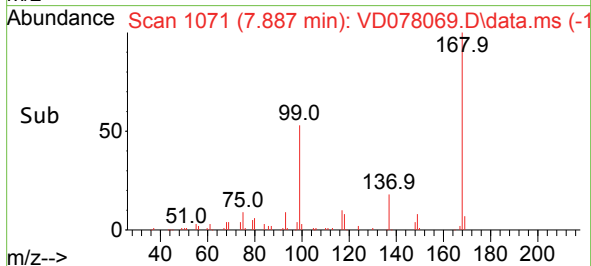
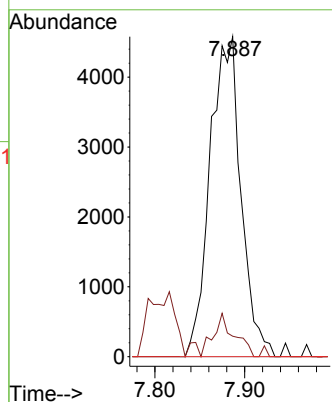
Tgt Ion: 75 Resp: 10968

Ion Ratio Lower Upper

75 100

110 9.1 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.035 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

Lab File: VD078069.D

Acq: 22 Dec 2023 17:34

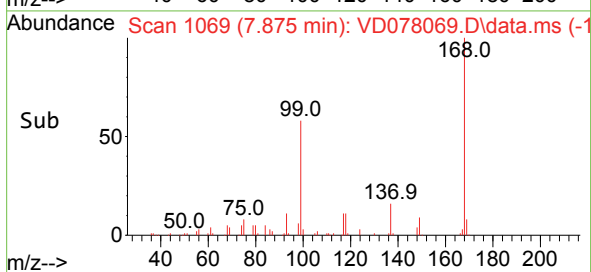
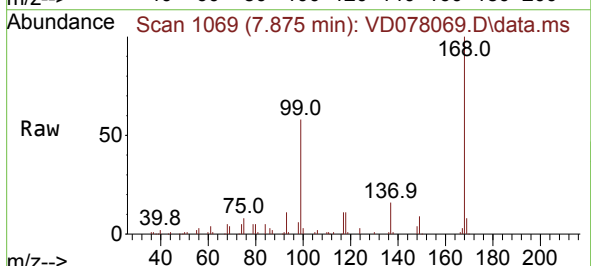
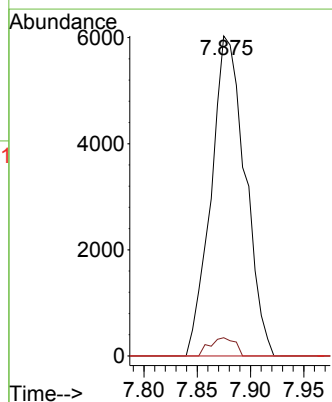
Tgt Ion: 117 Resp: 13387

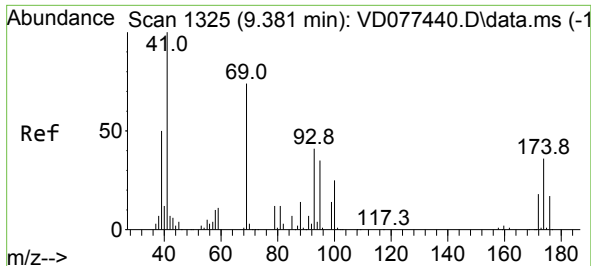
Ion Ratio Lower Upper

117 100

119 5.7 78.0 117.0#

121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 6.516 ug/l

RT: 9.275 min Scan# 11

Delta R.T. -0.106 min

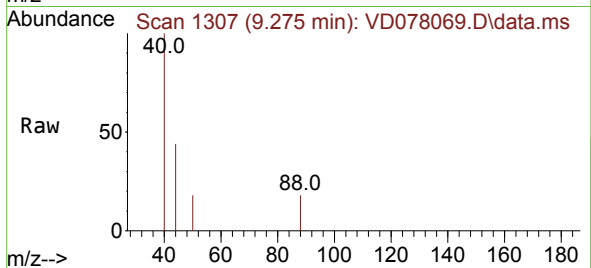
Lab File: VD078069.D

Acq: 22 Dec 2023 17:34

Instrument :

MSVOA\_D

ClientSampleId :



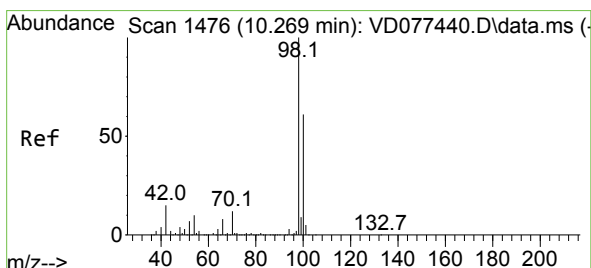
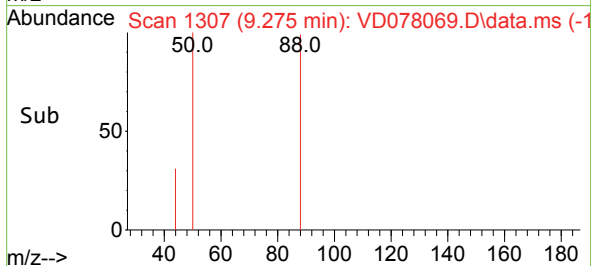
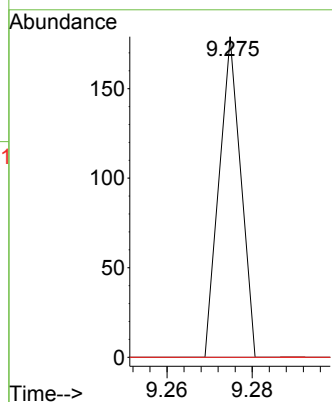
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 19.0 28.6#

58 0.0 43.5 65.3#



#50

Toluene-d8

Concen: 45.539 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD078069.D

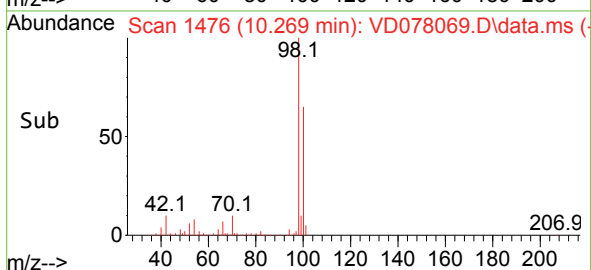
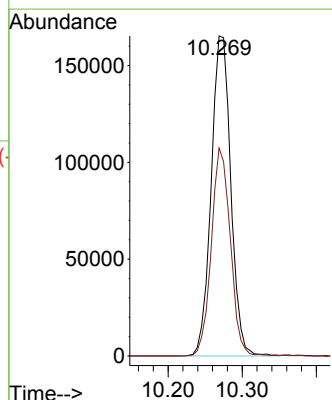
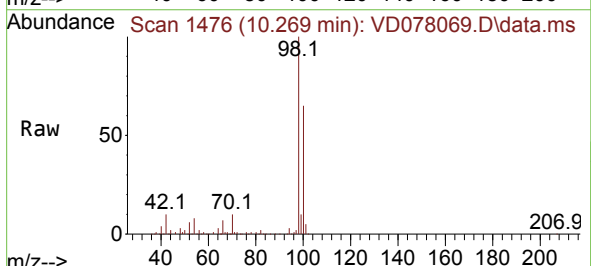
Acq: 22 Dec 2023 17:34

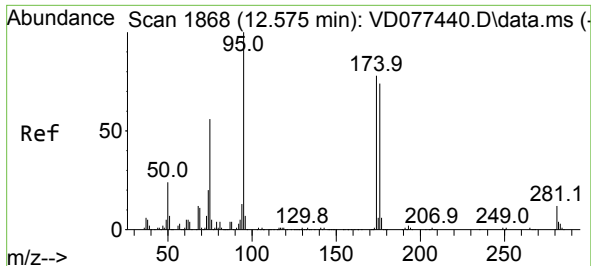
Tgt Ion: 98 Resp: 304120

Ion Ratio Lower Upper

98 100

100 62.8 50.3 75.5

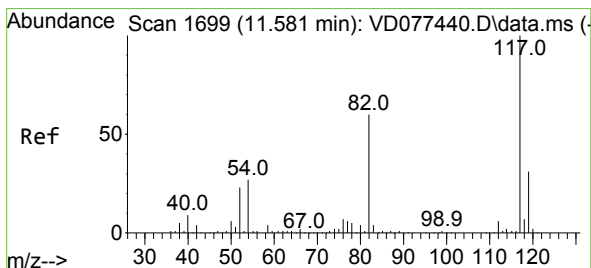
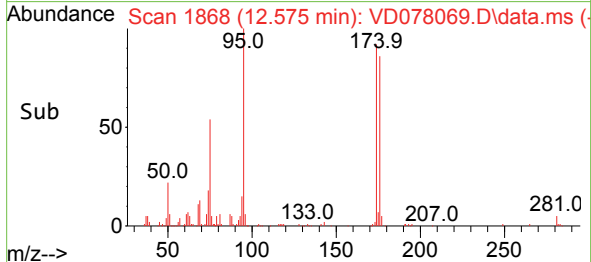
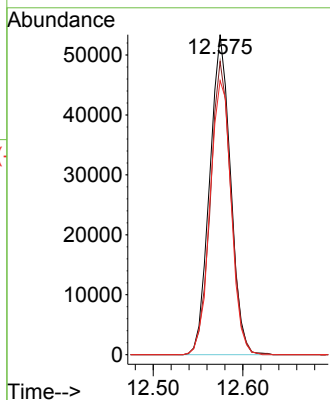
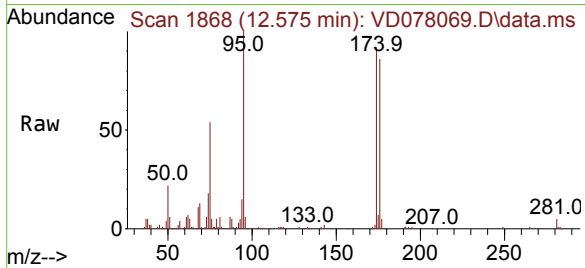




#62  
4-Bromofluorobenzene  
Concen: 43.130 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

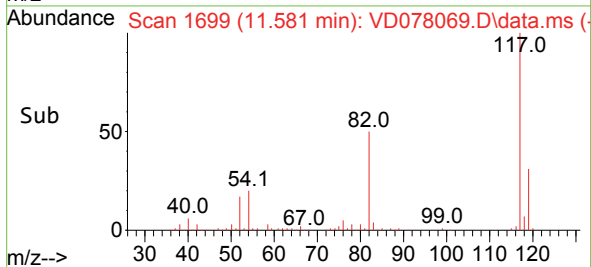
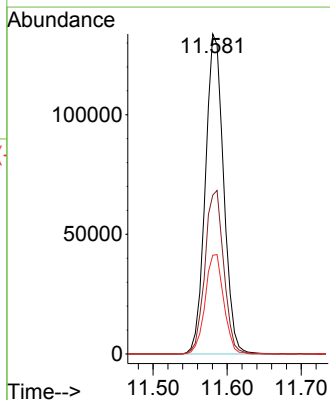
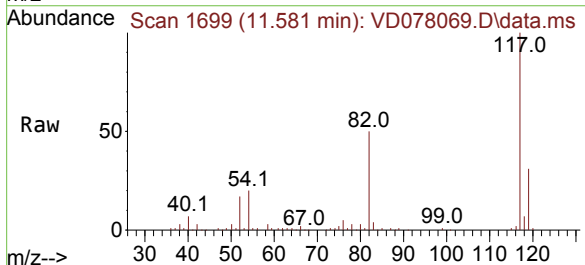
Instrument :  
MSVOA\_D  
ClientSampleId :

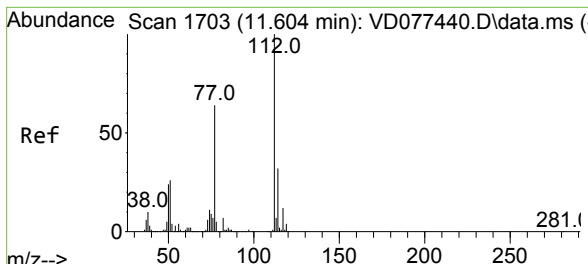
Tgt Ion: 95 Resp: 86115  
Ion Ratio Lower Upper  
95 100  
174 90.3 0.0 201.8  
176 87.1 0.0 191.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

Tgt Ion: 117 Resp: 229149  
Ion Ratio Lower Upper  
117 100  
82 49.7 38.3 57.5  
119 30.9 25.0 37.4

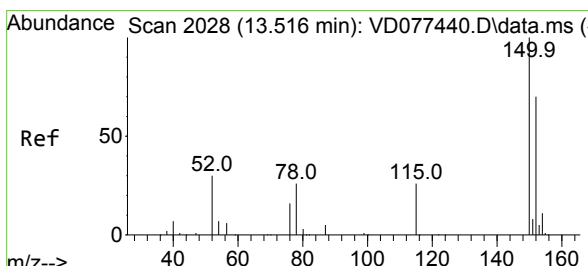
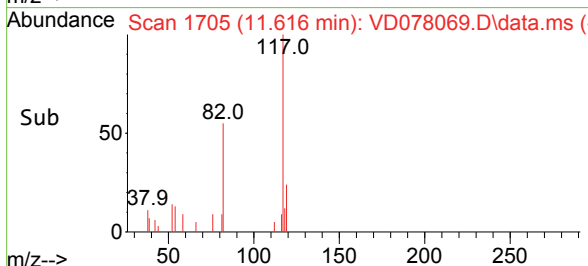
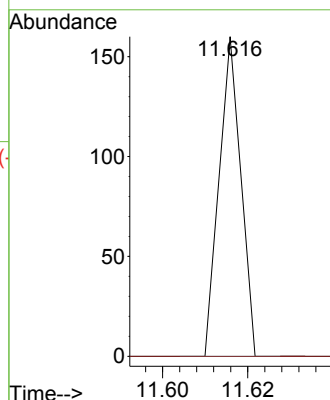
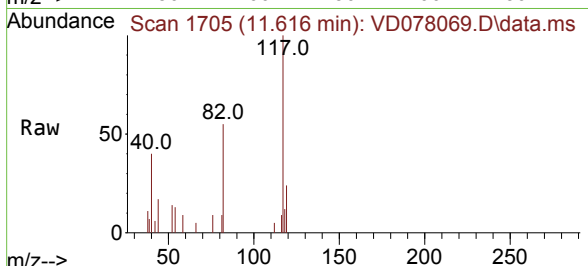




#65  
Chlorobenzene  
Concen: Below Cal  
RT: 11.616 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

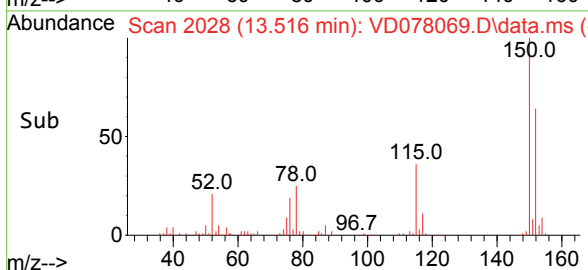
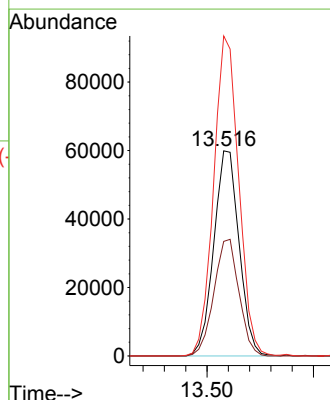
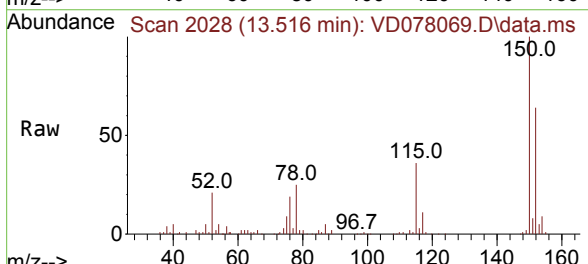
Instrument :  
MSVOA\_D  
ClientSampleId :

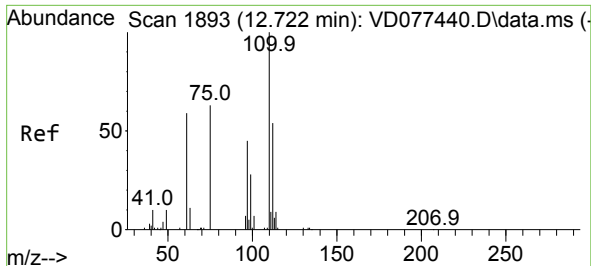
Tgt Ion:112 Resp: 56  
Ion Ratio Lower Upper  
112 100  
114 0.0 25.1 37.7#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

Tgt Ion:152 Resp: 98716  
Ion Ratio Lower Upper  
152 100  
115 56.3 27.1 81.3  
150 154.4 0.0 353.6

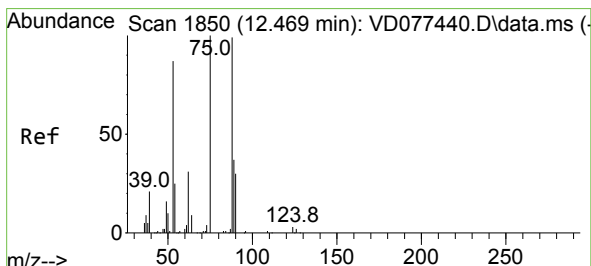
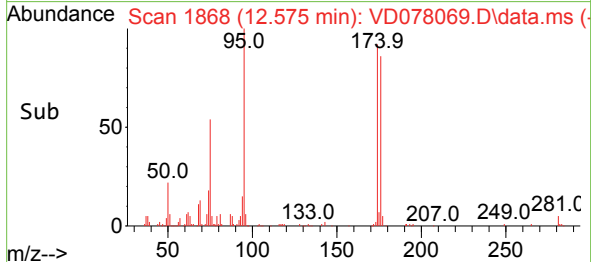
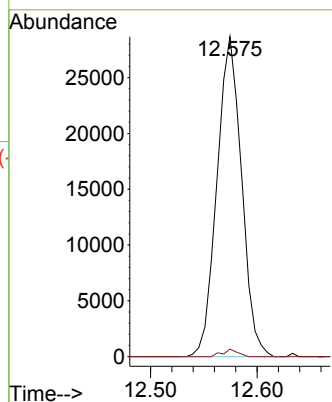
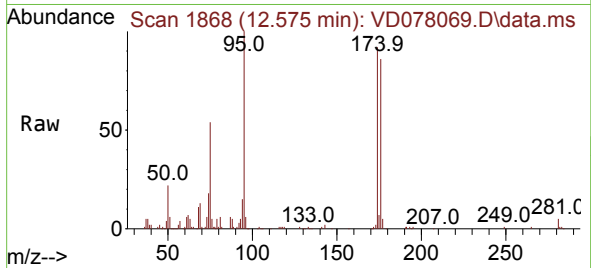




#76  
1,2,3-Trichloropropane  
Concen: 53.614 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.147 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

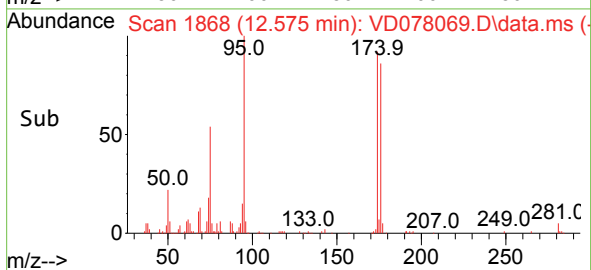
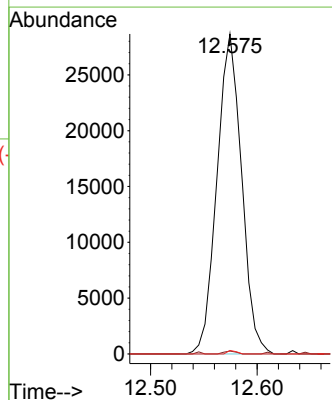
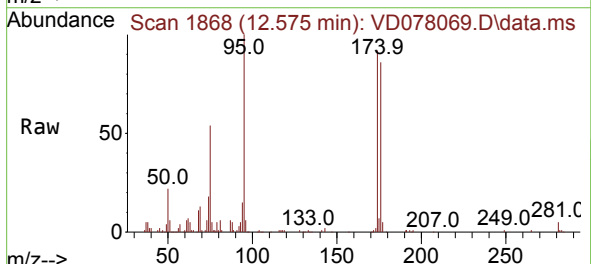
Instrument :  
MSVOA\_D  
ClientSampleId :

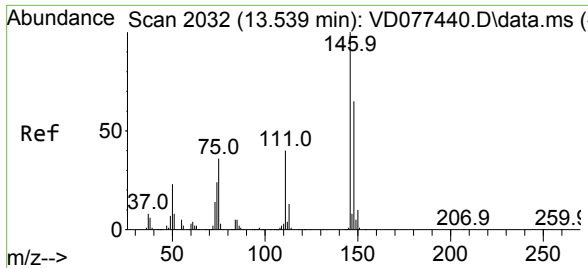
Tgt Ion: 75 Resp: 45966  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.625 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD078069.D  
Acq: 22 Dec 2023 17:34

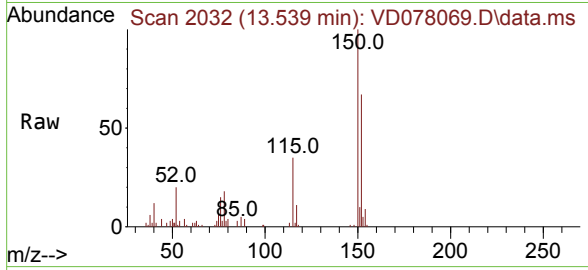
Tgt Ion: 75 Resp: 45966  
Ion Ratio Lower Upper  
75 100  
53 0.4 63.0 94.4#  
89 0.4 37.9 56.9#





#88  
 1,4-Dichlorobenzene  
 Concen: Below Cal  
 RT: 13.539 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VD078069.D  
 Acq: 22 Dec 2023 17:34

Instrument :  
 MSVOA\_D  
 ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 55    |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 0.0   | 17.4  | 52.3# |
| 148       | 0.0   | 31.7  | 95.1# |

