

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122023\  
 Data File : VD077999.D  
 Acq On : 20 Dec 2023 16:49  
 Operator : RP/MD  
 Sample : 05827-03  
 Misc : 5.04G/5.0ml/MSVOA\_D/SOIL/B  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 21 05:26:08 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

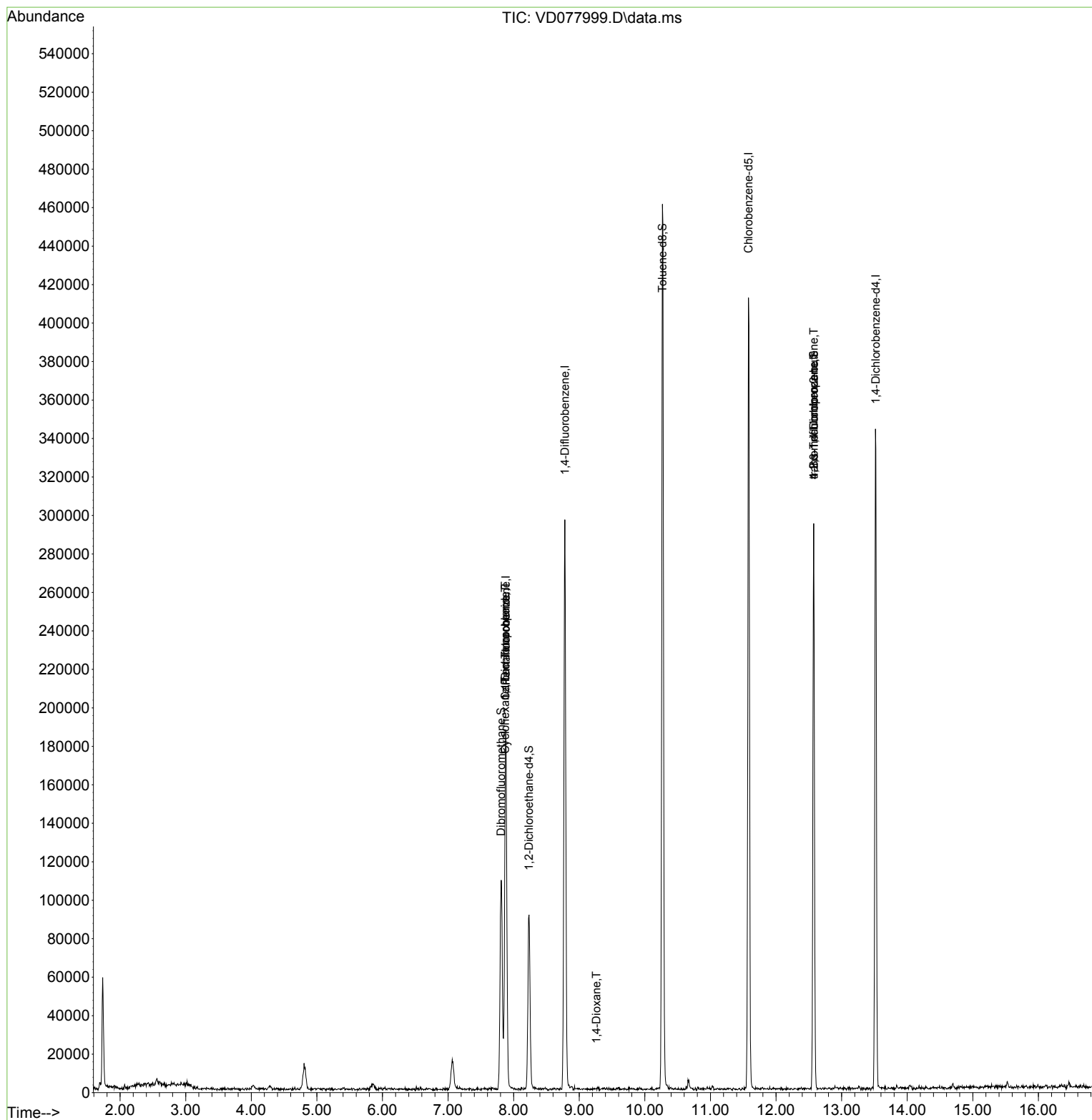
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.881  | 168   | 144846   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 259812   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 241053   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 90300    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 71543    | 41.916    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 83.840%  |
| 35) Dibromofluoromethane      | 7.810  | 113   | 81199    | 44.617    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 89.240%  |
| 50) Toluene-d8                | 10.269 | 98    | 330215   | 45.304    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 90.600%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 86889    | 39.872    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 79.740%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.046  | 59    | 63       | Below Cal | #      | 73       |
| 16) Acetone                   | 4.034  | 43    | 3371     | Below Cal |        | 93       |
| 20) Methylene Chloride        | 4.805  | 84    | 9374     | Below Cal | #      | 92       |
| 25) 2-Butanone                | 7.093  | 43    | 659      | Below Cal | #      | 79       |
| 31) Cyclohexane               | 7.869  | 56    | 3674     | 1.210     | ug/l # | 49       |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 11935    | 4.100     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 14368    | 4.951     | ug/l # | 16       |
| 49) 1,4-Dioxane               | 9.263  | 88    | 60       | 5.686     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 46980    | 59.904    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 46980    | 121.369   | ug/l # | 17       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146   | 174      | Below Cal | #      | 1        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.486 | 75    | 58       | Below Cal | #      | 1        |
| -----                         |        |       |          |           |        |          |

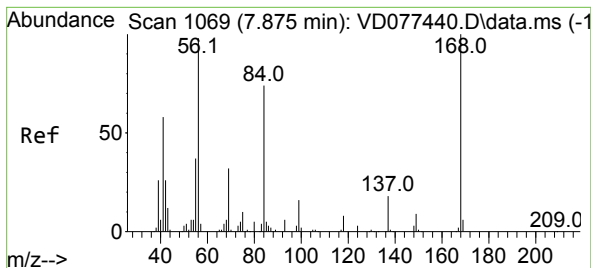
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122023\  
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Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 21 05:26:08 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# 1

Delta R.T. 0.006 min

Lab File: VD077999.D

Acq: 20 Dec 2023 16:49

Instrument :

MSVOA\_D

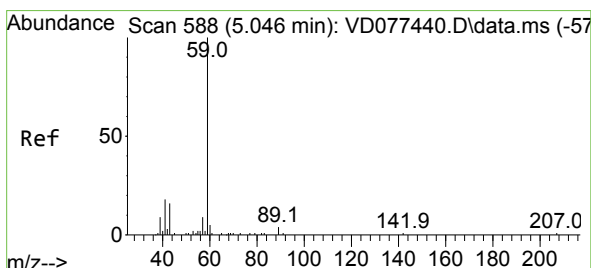
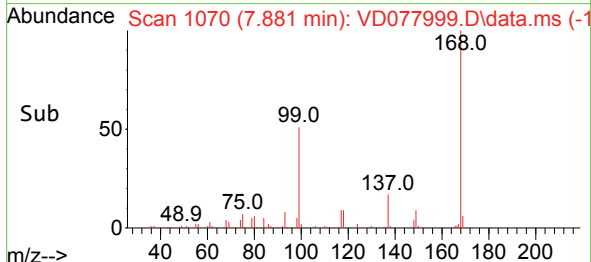
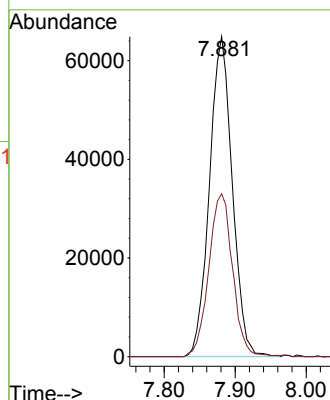
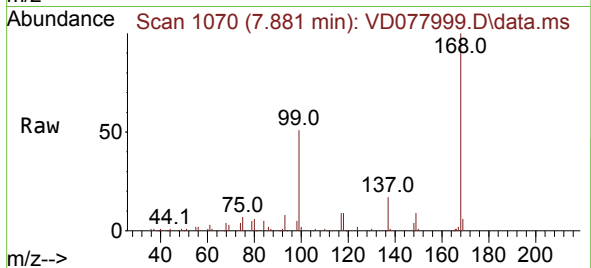
ClientSampleId :

Tgt Ion:168 Resp: 144846

Ion Ratio Lower Upper

168 100

99 50.9 36.7 55.1



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.046 min Scan# 588

Delta R.T. -0.000 min

Lab File: VD077999.D

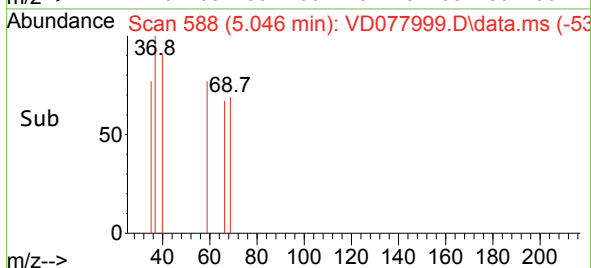
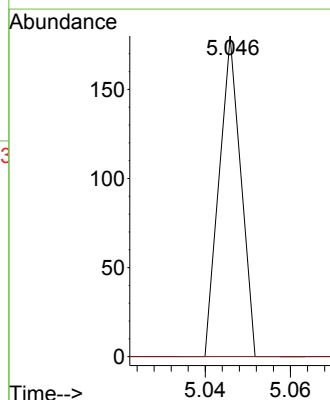
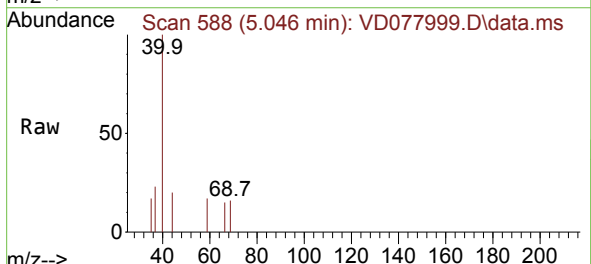
Acq: 20 Dec 2023 16:49

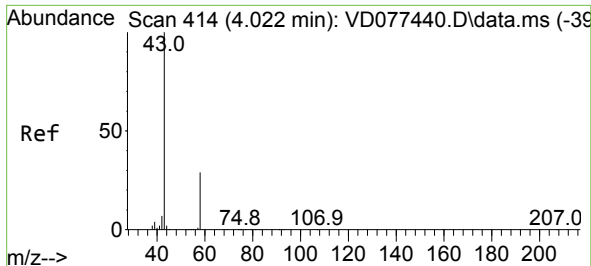
Tgt Ion: 59 Resp: 63

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#

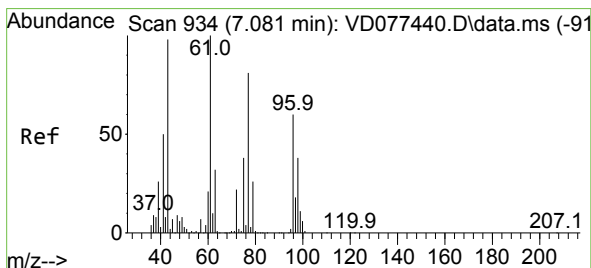
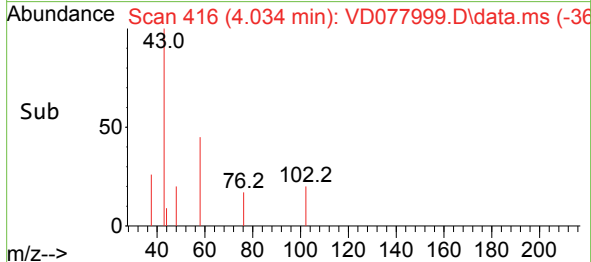
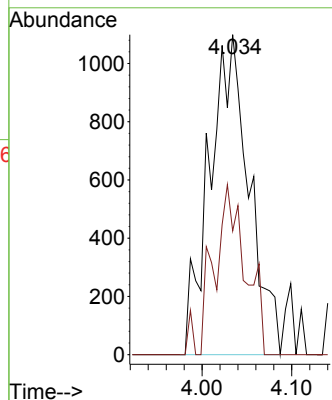
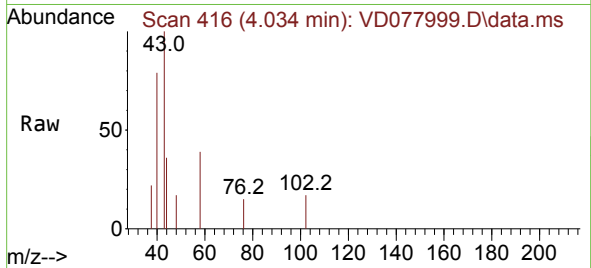




#16  
Acetone  
Concen: Below Cal  
RT: 4.034 min Scan# 416  
Delta R.T. 0.012 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

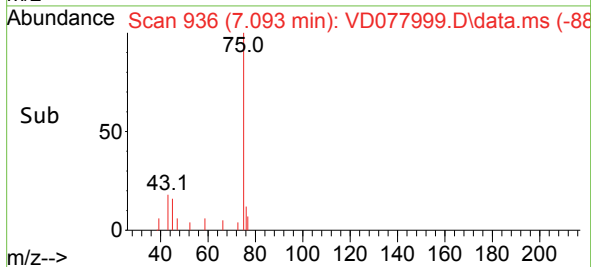
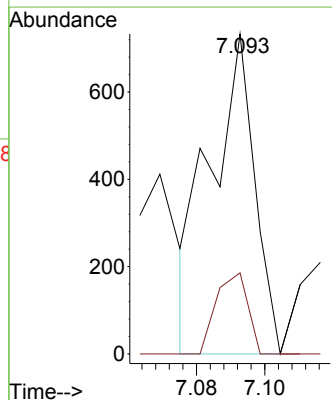
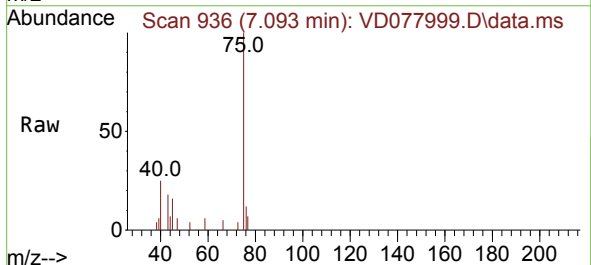
Instrument :  
MSVOA\_D  
ClientSampleId :

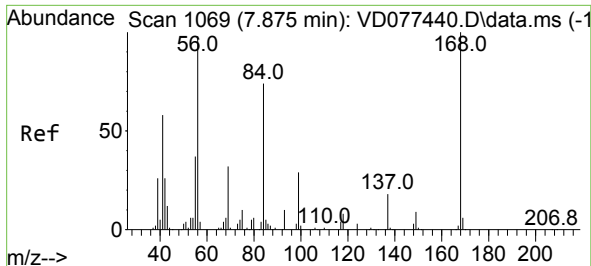
Tgt Ion: 43 Resp: 3371  
Ion Ratio Lower Upper  
43 100  
58 38.7 34.7 52.1



#25  
2-Butanone  
Concen: Below Cal  
RT: 7.093 min Scan# 936  
Delta R.T. 0.012 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

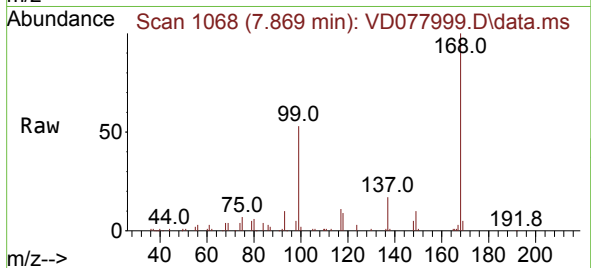
Tgt Ion: 43 Resp: 659  
Ion Ratio Lower Upper  
43 100  
72 25.4 30.7 46.1#



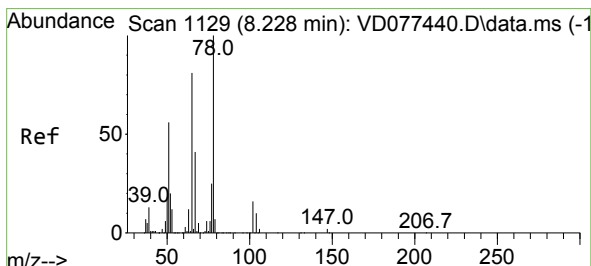
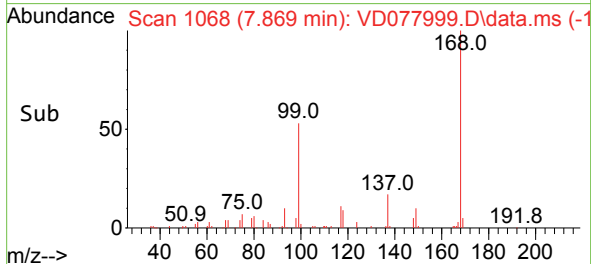
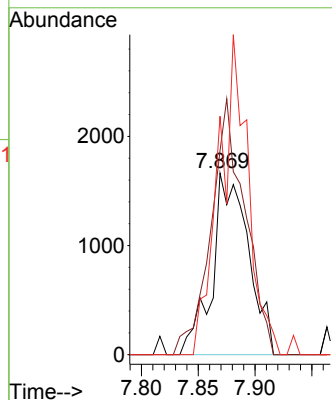


#31  
Cyclohexane  
Concen: 1.210 ug/l  
RT: 7.869 min Scan# 110  
Delta R.T. -0.006 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

Instrument :  
MSVOA\_D  
ClientSampleId :

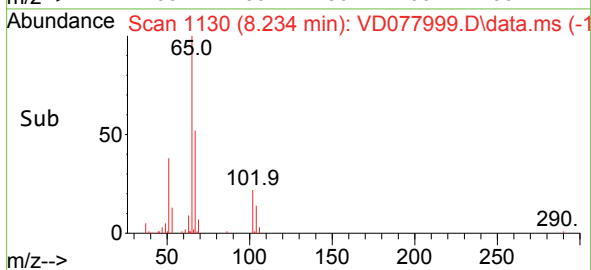
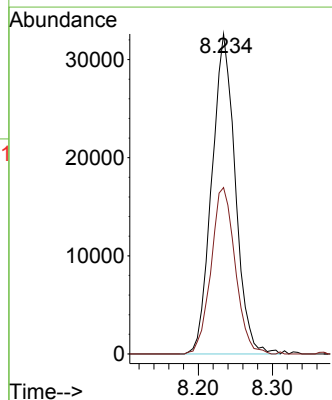
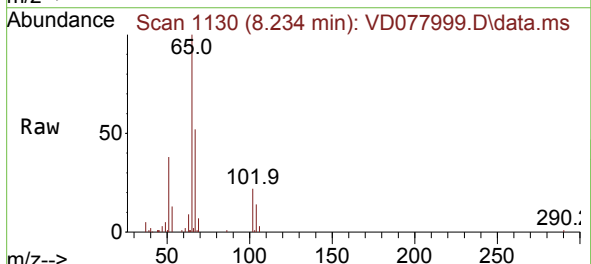


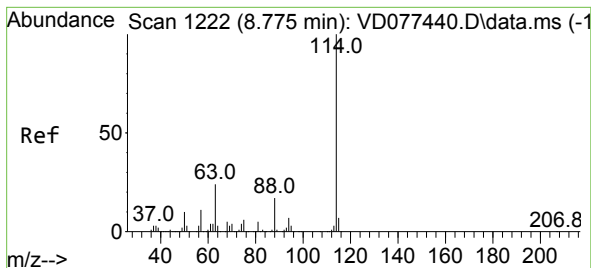
Tgt Ion: 56 Resp: 3674  
Ion Ratio Lower Upper  
56 100  
69 112.4 28.6 43.0#  
84 131.4 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 41.916 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

Tgt Ion: 65 Resp: 71543  
Ion Ratio Lower Upper  
65 100  
67 53.6 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: VD077999.D

Acq: 20 Dec 2023 16:49

Instrument :

MSVOA\_D

ClientSampleId :

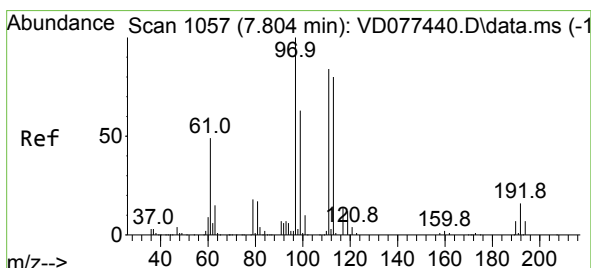
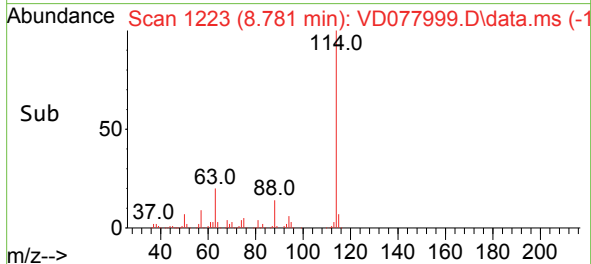
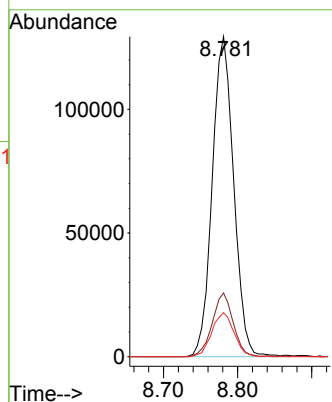
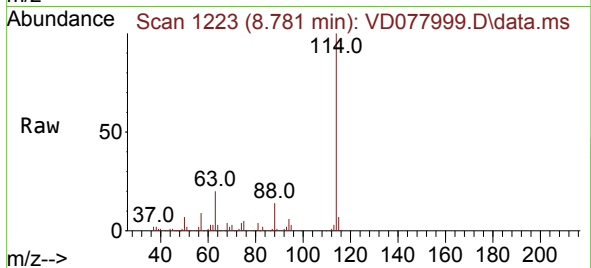
Tgt Ion:114 Resp: 259812

Ion Ratio Lower Upper

114 100

63 19.9 0.0 33.4

88 13.8 0.0 26.2



#35

Dibromofluoromethane

Concen: 44.617 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077999.D

Acq: 20 Dec 2023 16:49

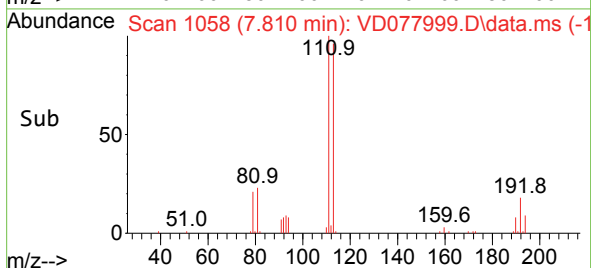
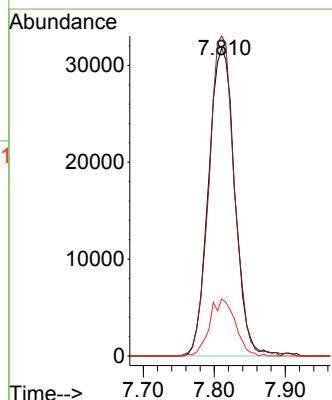
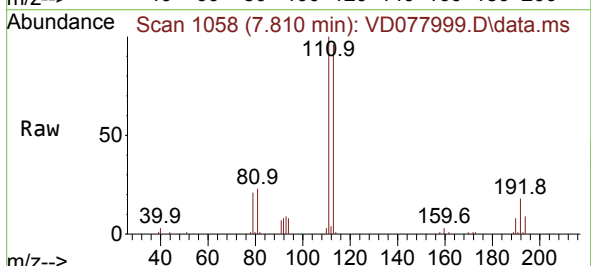
Tgt Ion:113 Resp: 81199

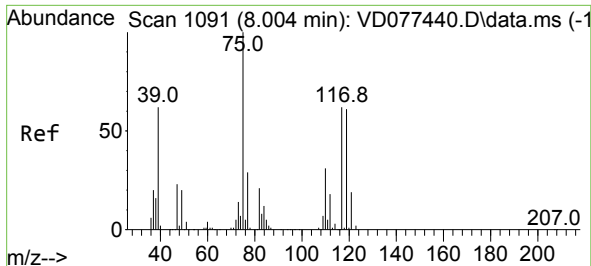
Ion Ratio Lower Upper

113 100

111 101.7 84.7 127.1

192 18.3 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.100 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.129 min

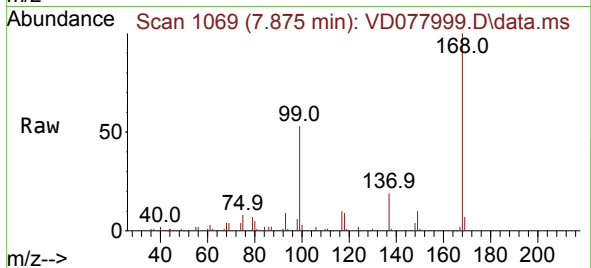
Lab File: VD077999.D

Acq: 20 Dec 2023 16:49

Instrument :

MSVOA\_D

ClientSampleId :



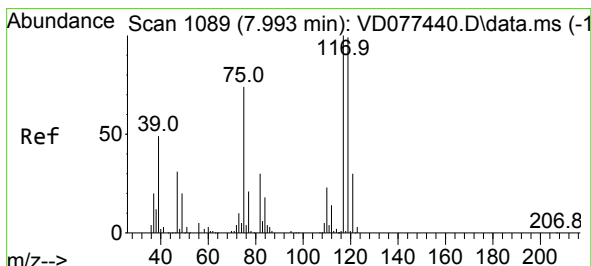
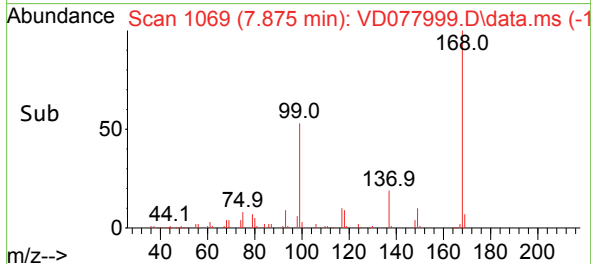
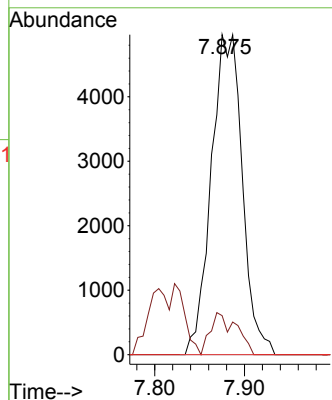
Tgt Ion: 75 Resp: 11935

Ion Ratio Lower Upper

75 100

110 10.9 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 4.951 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

Lab File: VD077999.D

Acq: 20 Dec 2023 16:49

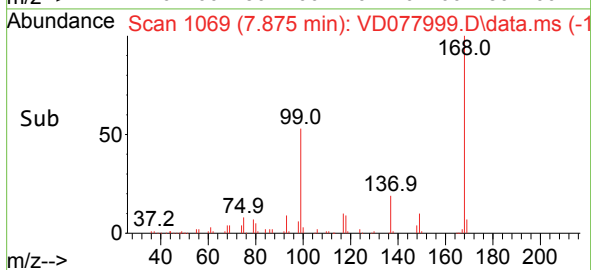
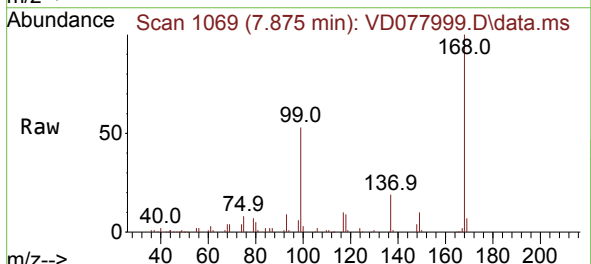
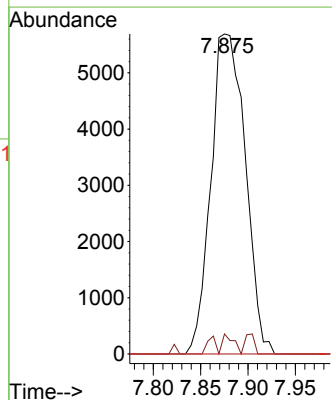
Tgt Ion: 117 Resp: 14368

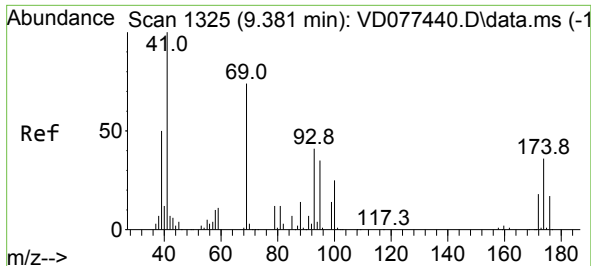
Ion Ratio Lower Upper

117 100

119 6.3 78.0 117.0#

121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 5.686 ug/l

RT: 9.263 min Scan# 11

Delta R.T. -0.118 min

Lab File: VD077999.D

Acq: 20 Dec 2023 16:49

Instrument :

MSVOA\_D

ClientSampleId :

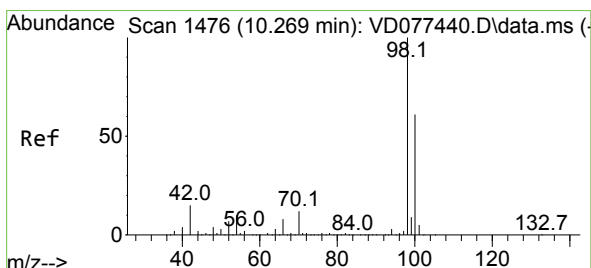
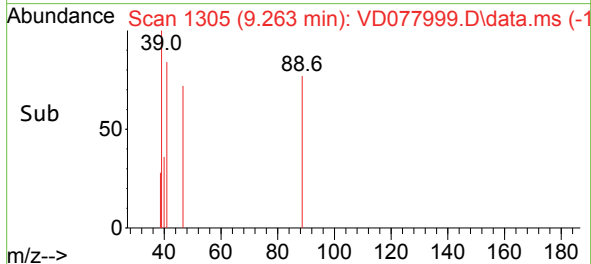
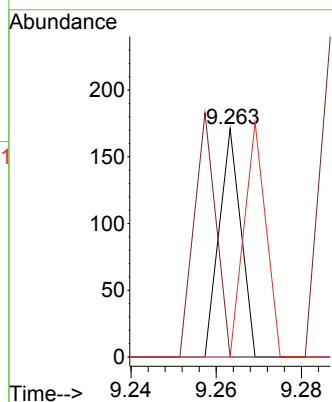
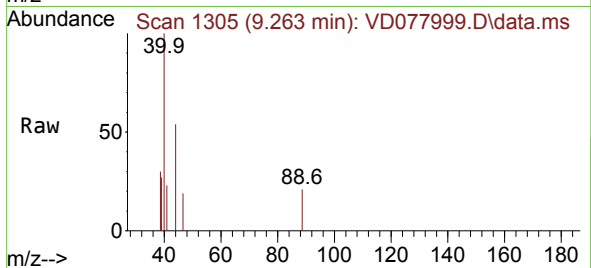
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 108.3 19.0 28.6#

58 103.3 43.5 65.3#



#50

Toluene-d8

Concen: 45.304 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077999.D

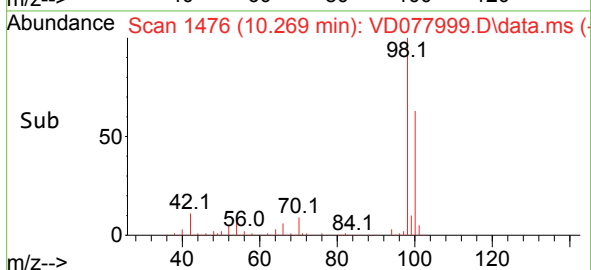
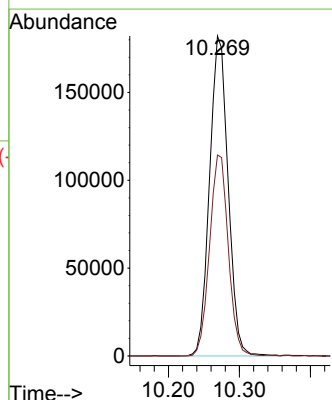
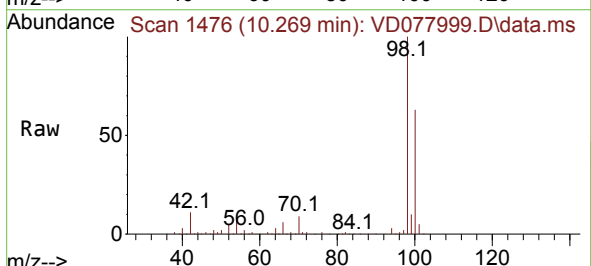
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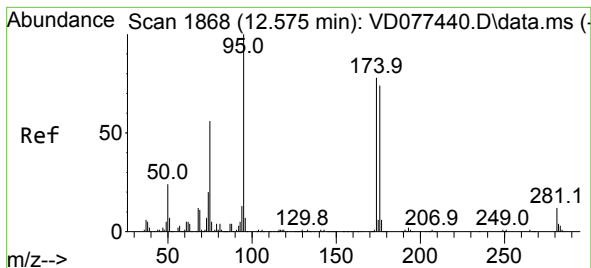
Tgt Ion: 98 Resp: 330215

Ion Ratio Lower Upper

98 100

100 63.3 50.3 75.5

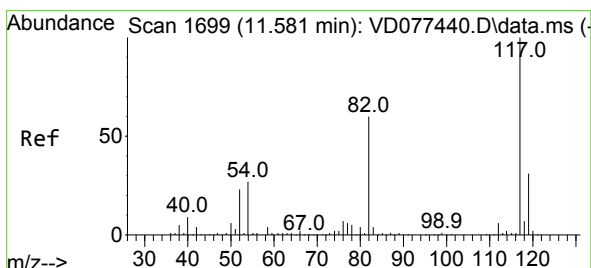
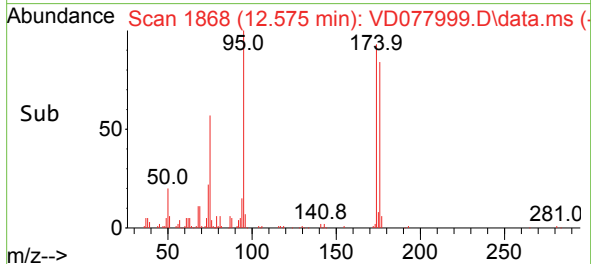
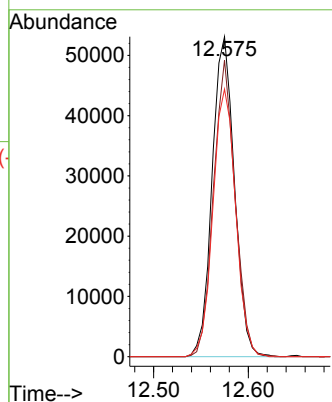
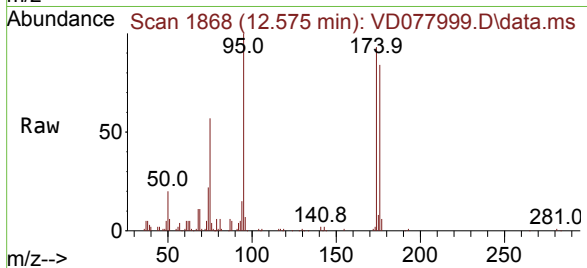




#62  
4-Bromofluorobenzene  
Concen: 39.872 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

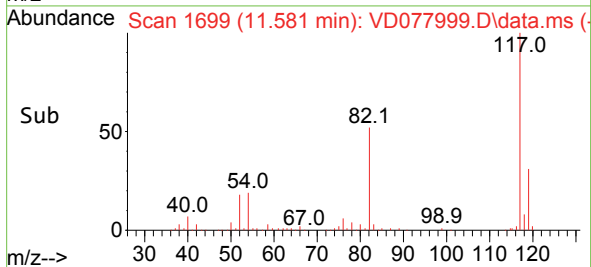
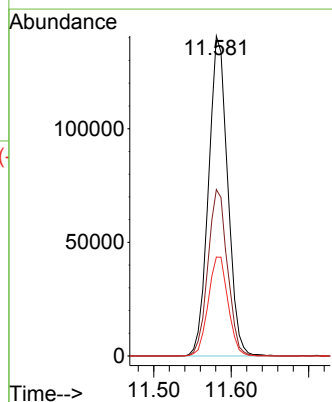
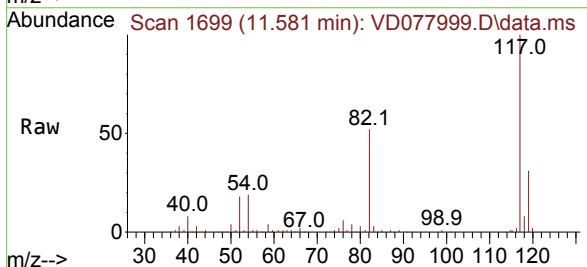
Instrument :  
MSVOA\_D  
ClientSampleId :

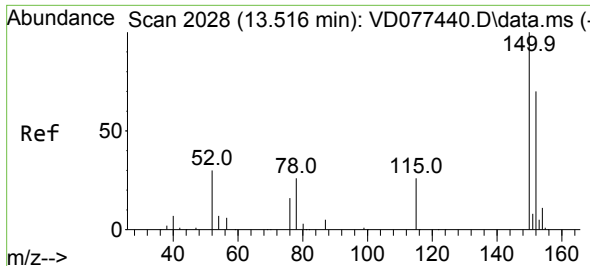
Tgt Ion: 95 Resp: 86889  
Ion Ratio Lower Upper  
95 100  
174 89.8 0.0 201.8  
176 85.5 0.0 191.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

Tgt Ion: 117 Resp: 241053  
Ion Ratio Lower Upper  
117 100  
82 52.0 38.3 57.5  
119 30.9 25.0 37.4

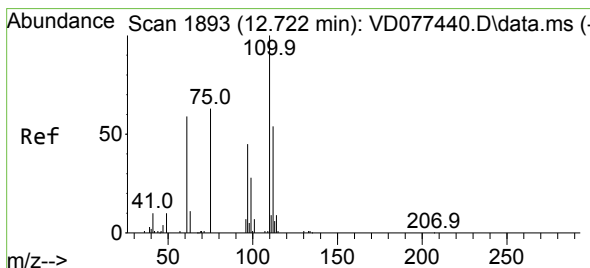
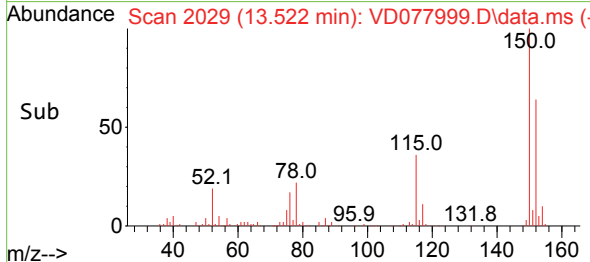
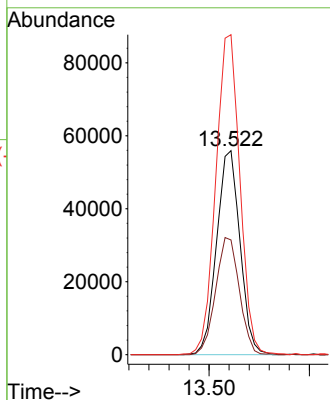
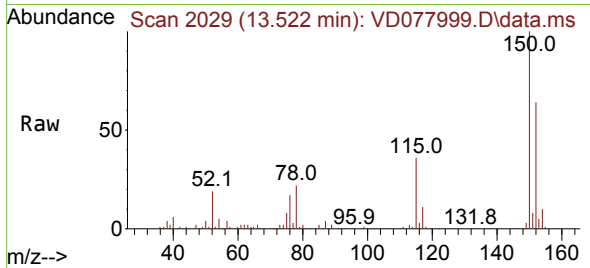




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

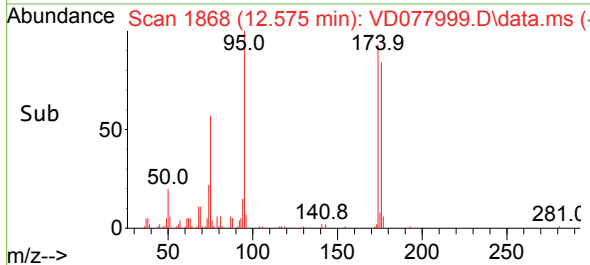
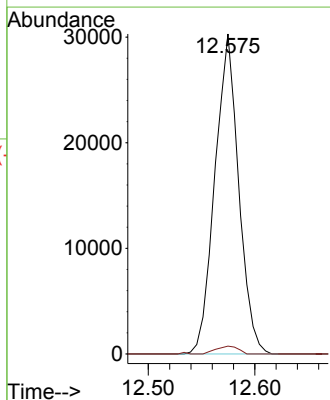
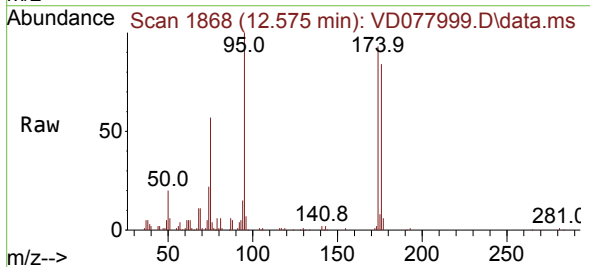
Instrument :  
MSVOA\_D  
ClientSampleId :

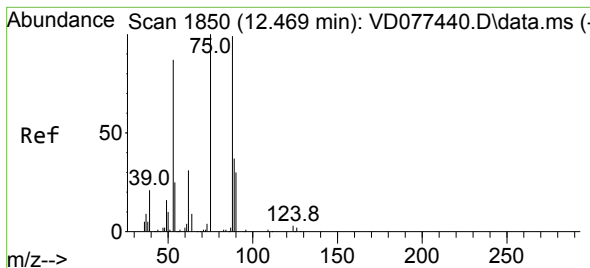
Tgt Ion:152 Resp: 90300  
Ion Ratio Lower Upper  
152 100  
115 58.4 27.1 81.3  
150 161.8 0.0 353.6



#76  
1,2,3-Trichloropropane  
Concen: 59.904 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.147 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

Tgt Ion: 75 Resp: 46980  
Ion Ratio Lower Upper  
75 100  
77 2.3 0.0 0.0#

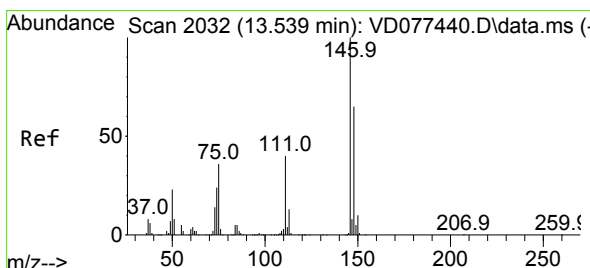
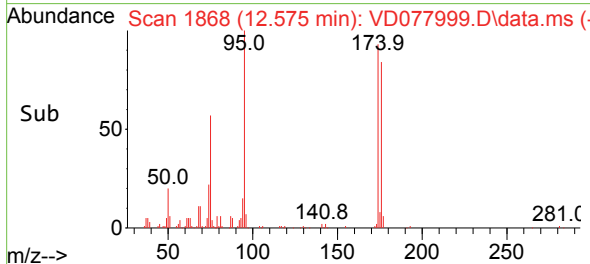
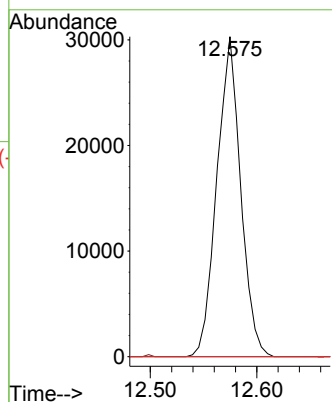
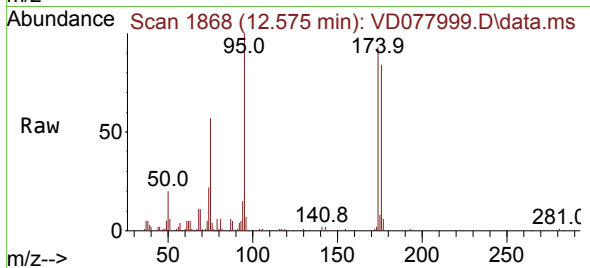




#81  
trans-1,4-Dichloro-2-butene  
Concen: 121.369 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 46980  
Ion Ratio Lower Upper  
75 100  
53 0.0 63.0 94.4#  
89 0.0 37.9 56.9#



#88  
1,4-Dichlorobenzene  
Concen: Below Cal  
RT: 13.534 min Scan# 2031  
Delta R.T. -0.005 min  
Lab File: VD077999.D  
Acq: 20 Dec 2023 16:49

Tgt Ion:146 Resp: 174  
Ion Ratio Lower Upper  
146 100  
111 762.1 17.4 52.3#  
148 265.5 31.7 95.1#

