

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080924\  
 Data File : VD079690.D  
 Acq On : 09 Aug 2024 13:49  
 Operator : RP/MD  
 Sample : P3474-03  
 Misc : 6.42G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 10 02:09:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072924S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:50:47 2024  
 Response via : Initial Calibration

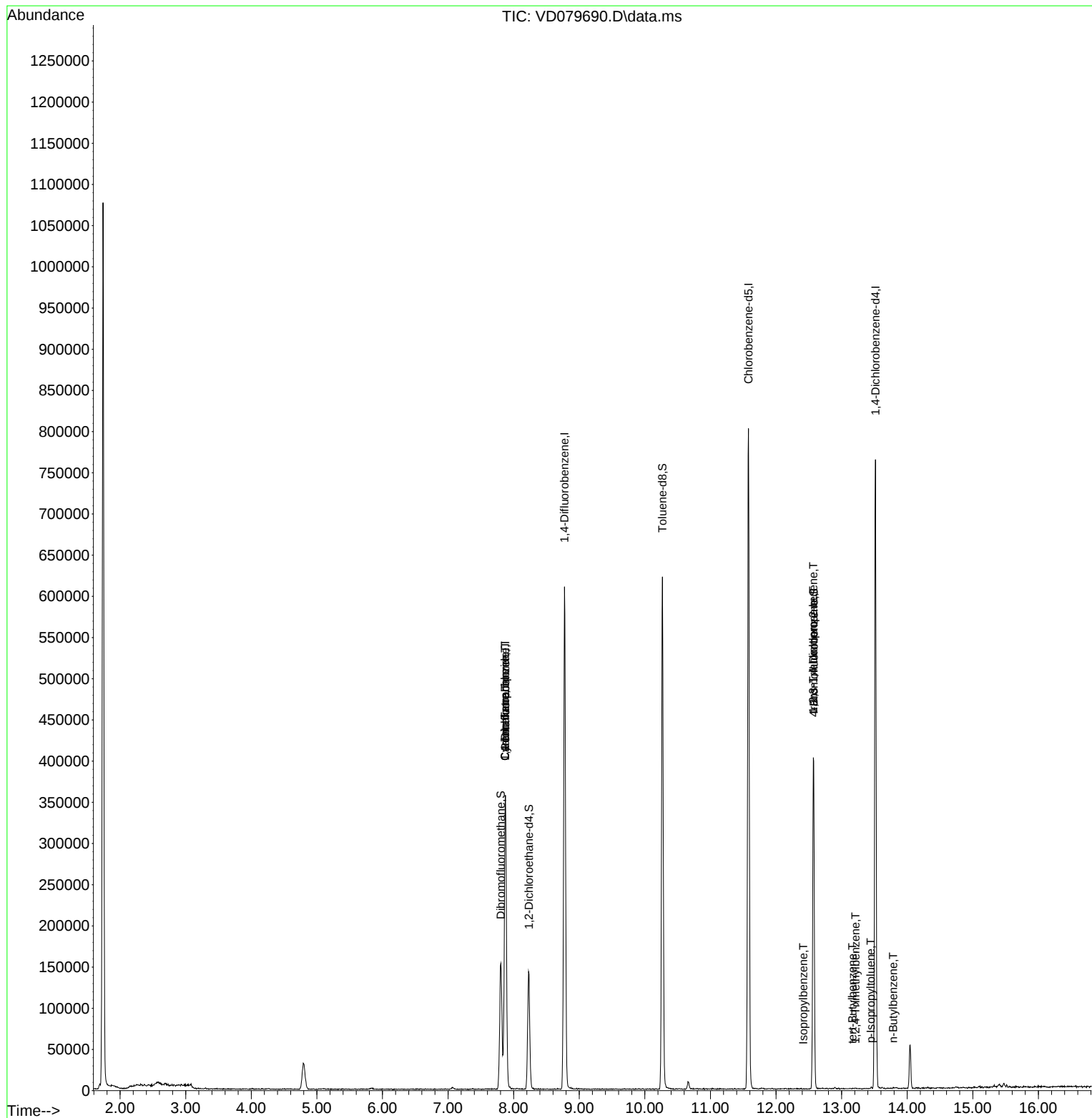
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 270989   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775  | 114   | 536170   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 466286   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 199628   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 109393   | 39.736    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 79.480%  |
| 35) Dibromofluoromethane      | 7.804  | 113   | 115264   | 31.762    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 63.520%  |
| 50) Toluene-d8                | 10.269 | 98    | 430006   | 30.512    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 61.020%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 117859   | 28.900    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 57.800%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.693  | 94    | 1045     | Below Cal | #      | 70       |
| 11) Tert butyl alcohol        | 5.028  | 59    | 55       | Below Cal | #      | 86       |
| 20) Methylene Chloride        | 4.793  | 84    | 25092    | Below Cal | #      | 83       |
| 31) Cyclohexane               | 7.869  | 56    | 6069     | 1.327     | ug/l # | 2        |
| 36) 1,1-Dichloropropene       | 7.869  | 75    | 23452    | 4.735     | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 7.869  | 117   | 27824    | 5.344     | ug/l # | 18       |
| 73) Isopropylbenzene          | 12.416 | 105   | 205      | 3.640     | ug/l # | 48       |
| 76) 1,2,3-Trichloropropane    | 12.569 | 75    | 61335    | 35.150    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75    | 61335    | 67.041    | ug/l # | 19       |
| 83) tert-Butylbenzene         | 13.163 | 119   | 112      | 3.637     | ug/l # | 77       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105   | 482      | 3.464     | ug/l   | 69       |
| 86) p-Isopropyltoluene        | 13.445 | 119   | 445      | 3.916     | ug/l # | 51       |
| 89) n-Butylbenzene            | 13.787 | 91    | 686      | 3.831     | ug/l   | 88       |
| -----                         |        |       |          |           |        |          |

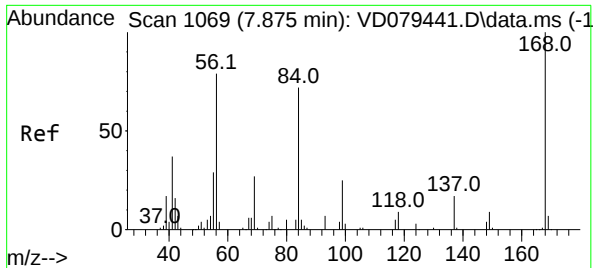
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080924\  
Data File : VD079690.D  
Acq On : 09 Aug 2024 13:49  
Operator : RP/MD  
Sample : P3474-03  
Misc : 6.42G/5.0ml/MSVOA\_D/SOIL/A  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Aug 10 02:09:20 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072924S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:50:47 2024  
Response via : Initial Calibration

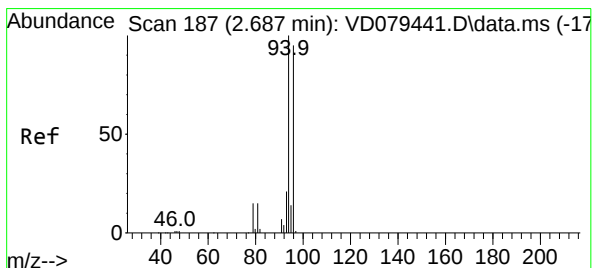
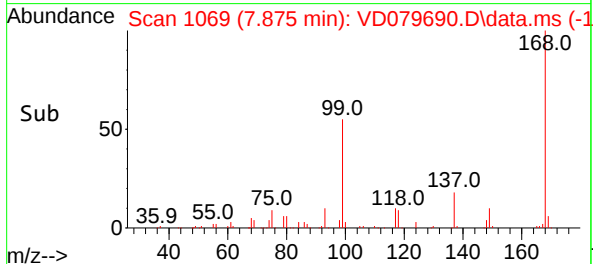
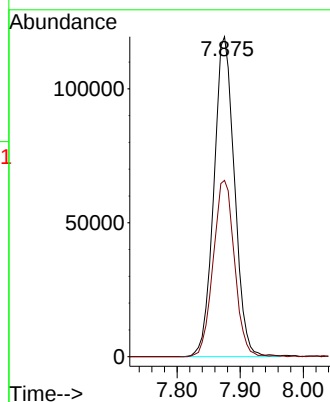
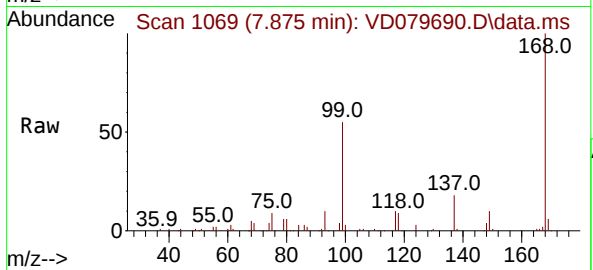




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

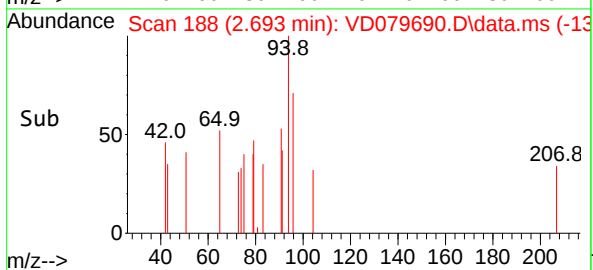
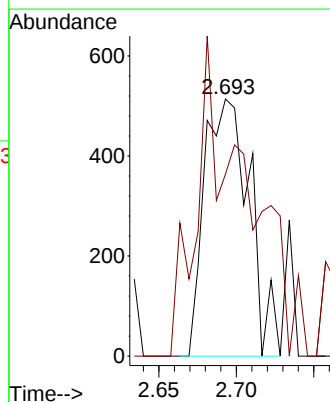
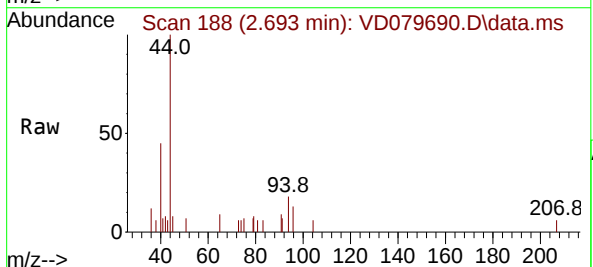
Instrument :  
MSVOA\_D  
ClientSampleId :

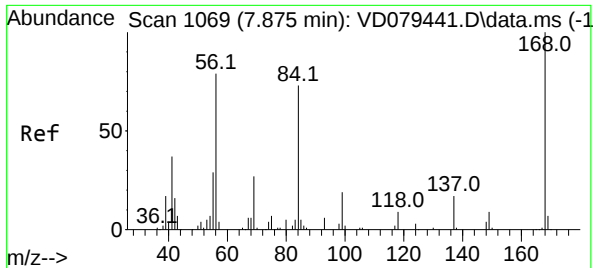
Tgt Ion:168 Resp: 270989  
Ion Ratio Lower Upper  
168 100  
99 55.1 41.1 61.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.693 min Scan# 188  
Delta R.T. 0.006 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

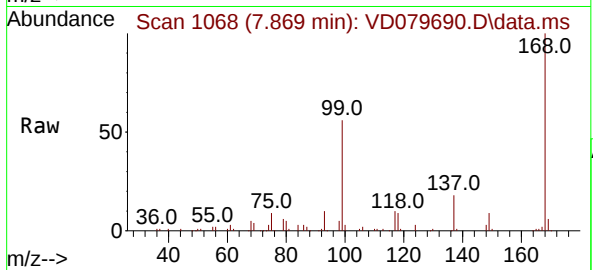
Tgt Ion: 94 Resp: 1045  
Ion Ratio Lower Upper  
94 100  
96 67.0 76.9 115.3#



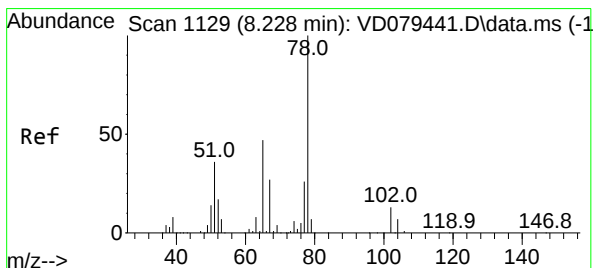
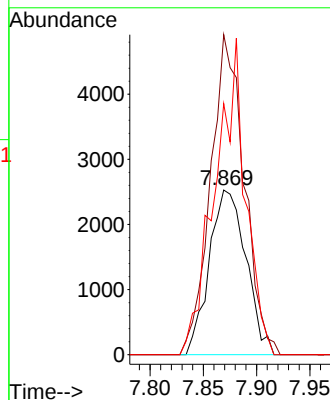
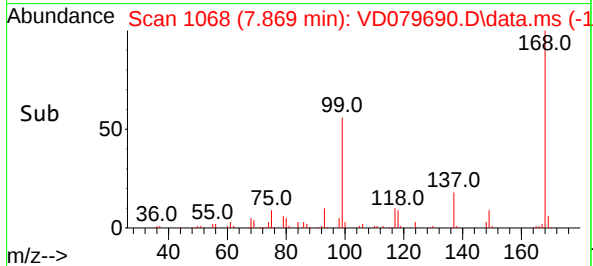


#31  
Cyclohexane  
Concen: 1.327 ug/l  
RT: 7.869 min Scan# 1106  
Delta R.T. -0.012 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

Instrument :  
MSVOA\_D  
ClientSampleId :

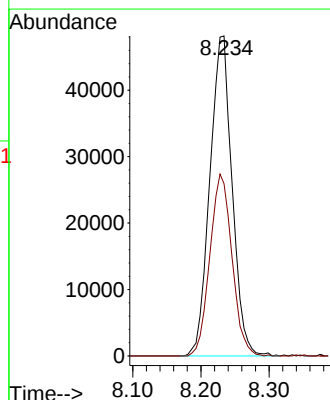
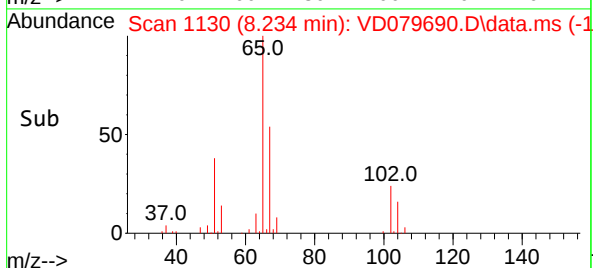
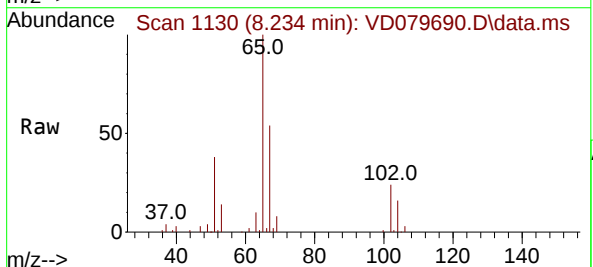


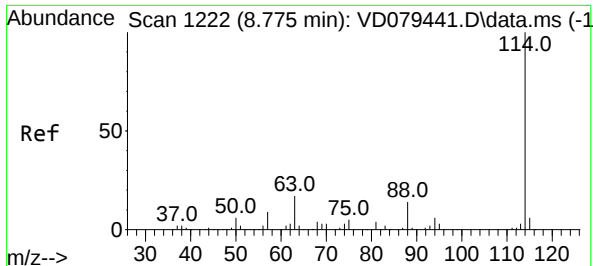
Tgt Ion: 56 Resp: 6069  
Ion Ratio Lower Upper  
56 100  
69 194.3 28.0 42.0#  
84 152.4 87.4 131.0#



#33  
1,2-Dichloroethane-d4  
Concen: 39.736 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

Tgt Ion: 65 Resp: 109393  
Ion Ratio Lower Upper  
65 100  
67 56.5 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD079690.D

Acq: 09 Aug 2024 13:49

Instrument :

MSVOA\_D

ClientSampleId :

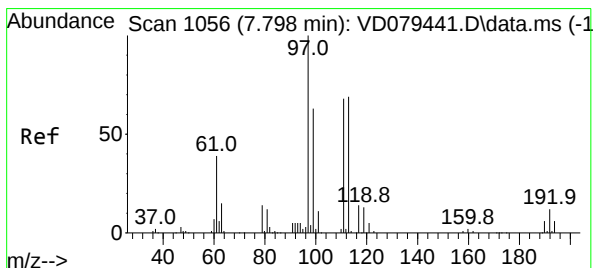
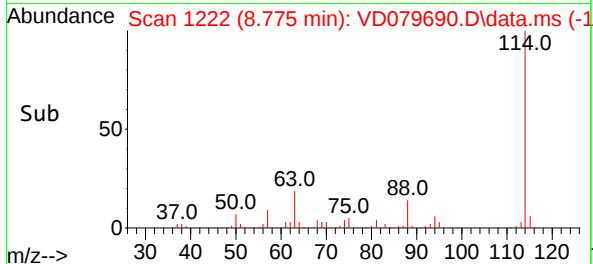
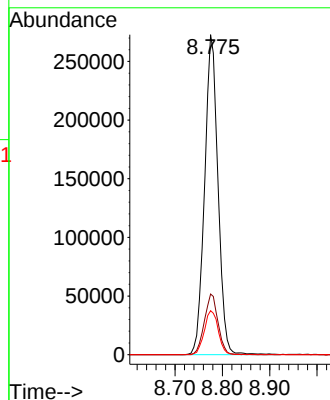
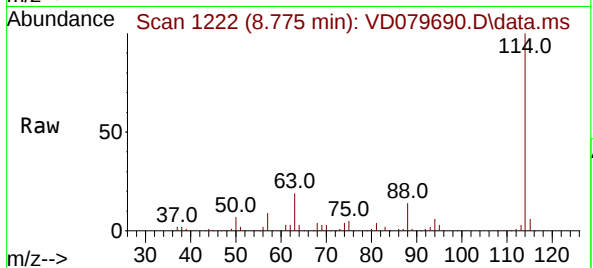
Tgt Ion:114 Resp: 536170

Ion Ratio Lower Upper

114 100

63 19.0 0.0 34.0

88 13.7 0.0 27.2



#35

Dibromofluoromethane

Concen: 31.762 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VD079690.D

Acq: 09 Aug 2024 13:49

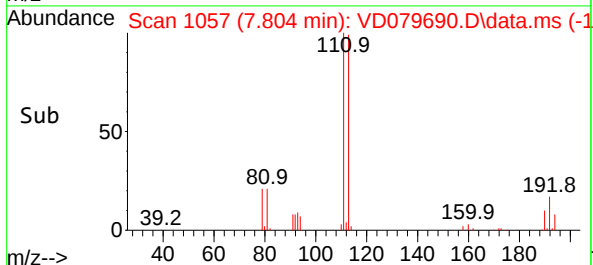
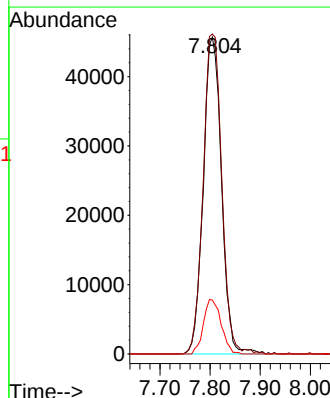
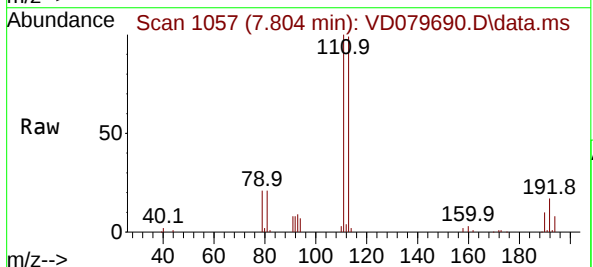
Tgt Ion:113 Resp: 115264

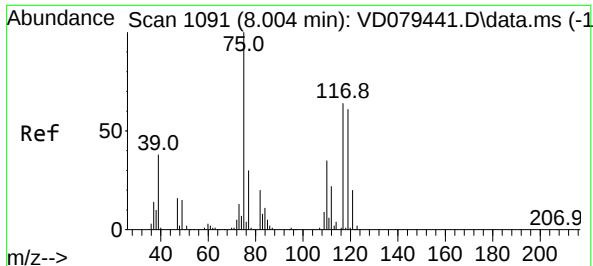
Ion Ratio Lower Upper

113 100

111 103.3 84.0 126.0

192 16.7 15.4 23.0





#36

1,1-Dichloropropene

Concen: 4.735 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VD079690.D

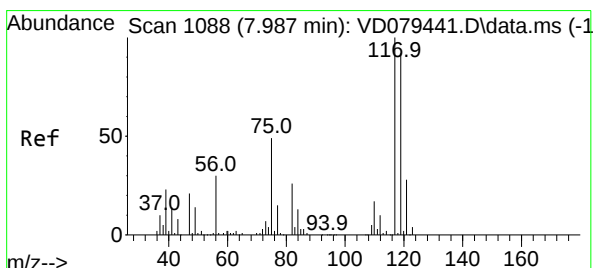
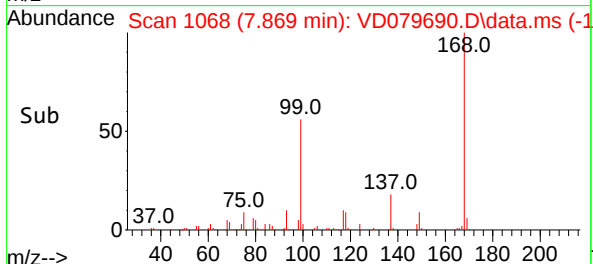
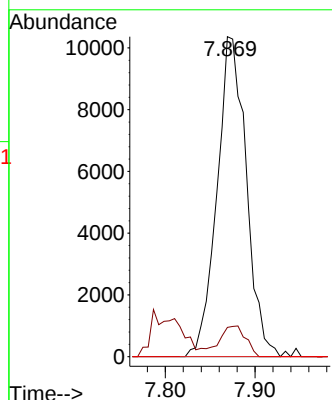
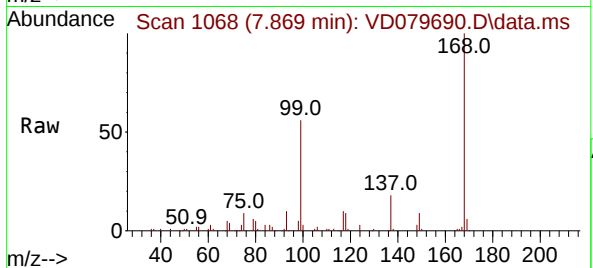
Acq: 09 Aug 2024 13:49

Instrument :

MSVOA\_D

ClientSampleId :

|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 23452    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 8.5 19.6 58.7# |
| 77          | 0.0 26.1 39.1# |



#38

Carbon Tetrachloride

Concen: 5.344 ug/l

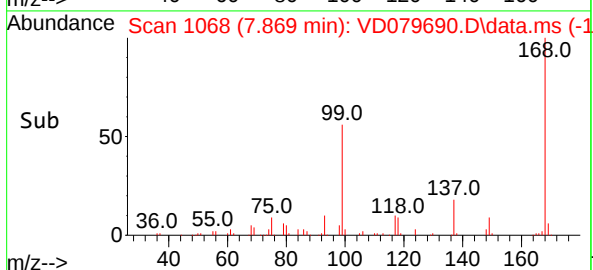
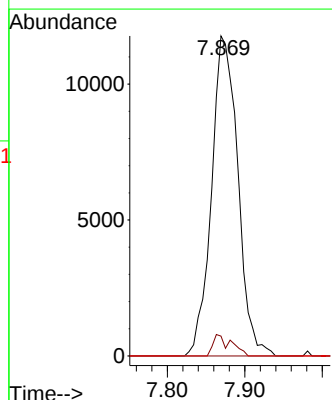
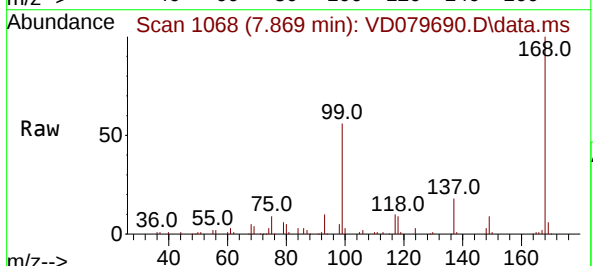
RT: 7.869 min Scan# 1068

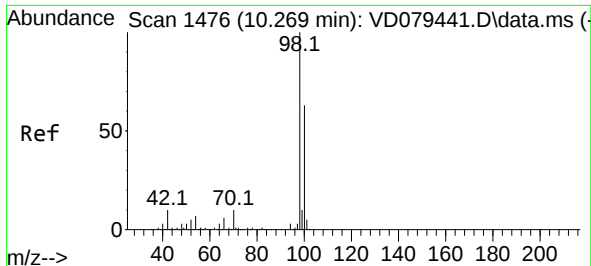
Delta R.T. -0.118 min

Lab File: VD079690.D

Acq: 09 Aug 2024 13:49

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 27824     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 6.2 75.4 113.0# |
| 121          | 0.0 25.0 37.4#  |

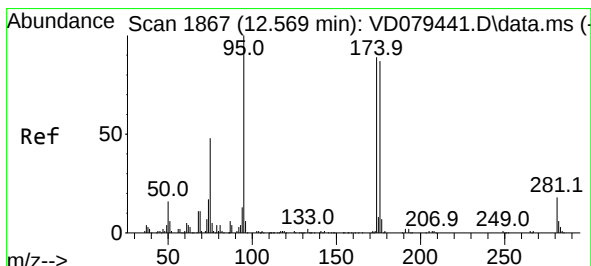
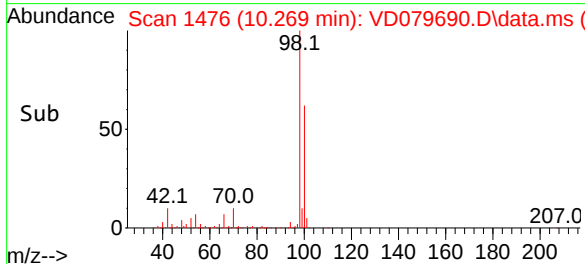
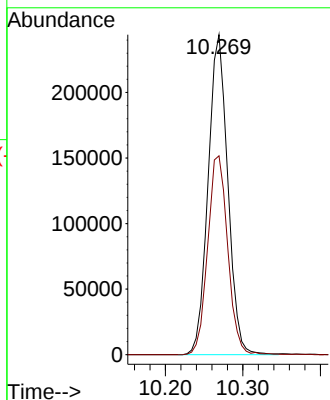
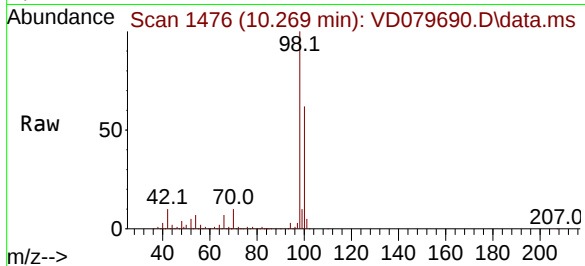




#50  
Toluene-d8  
Concen: 30.512 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.006 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

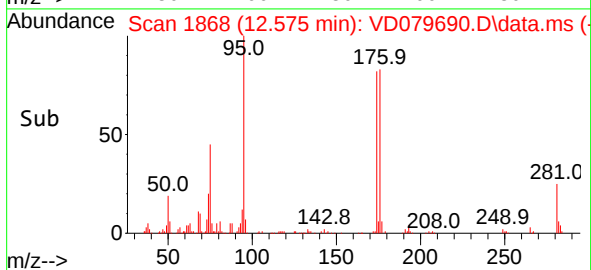
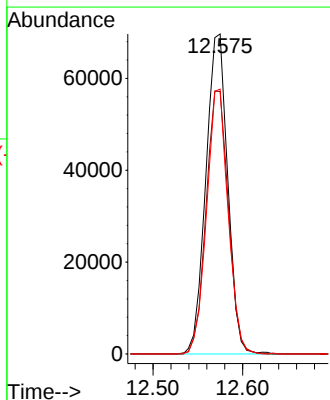
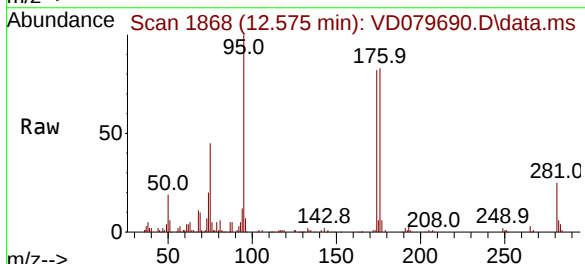
Instrument :  
MSVOA\_D  
ClientSampleId :

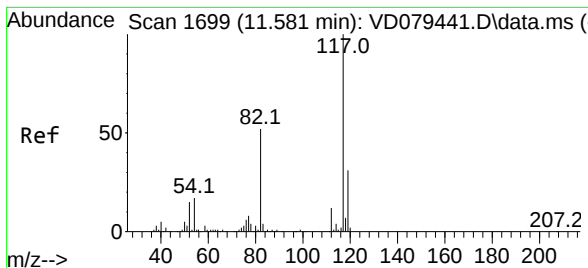
Tgt Ion: 98 Resp: 430006  
Ion Ratio Lower Upper  
98 100  
100 63.4 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 28.900 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.006 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

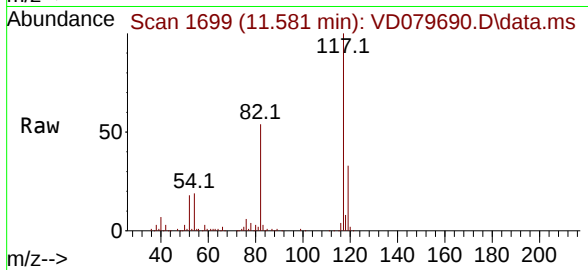
Tgt Ion: 95 Resp: 117859  
Ion Ratio Lower Upper  
95 100  
174 83.7 0.0 195.4  
176 81.2 0.0 192.6



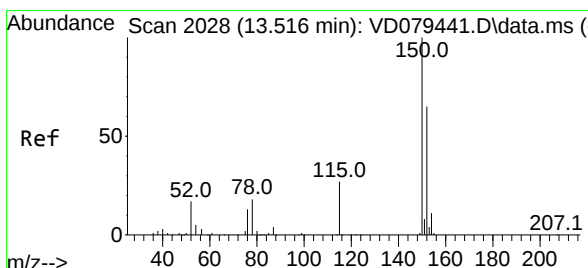
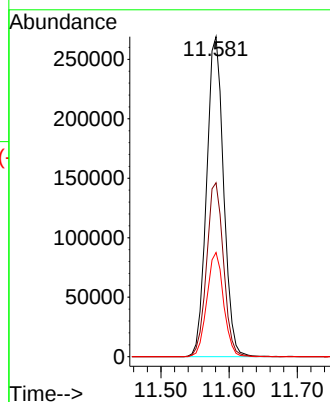
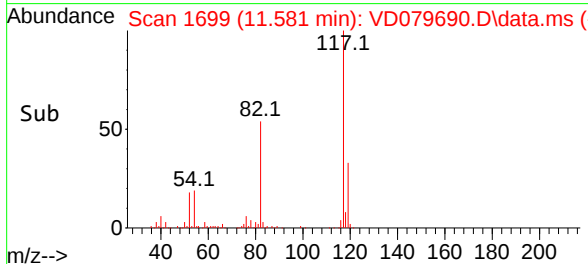


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

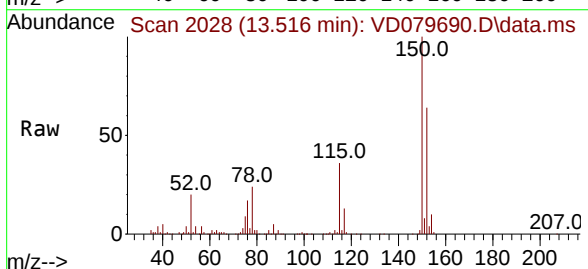
Instrument :  
MSVOA\_D  
ClientSampleId :



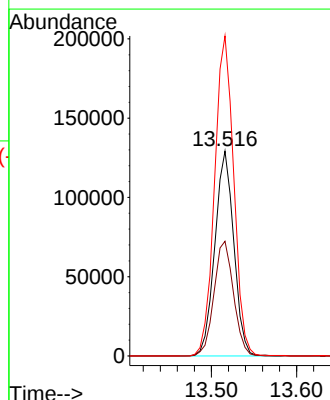
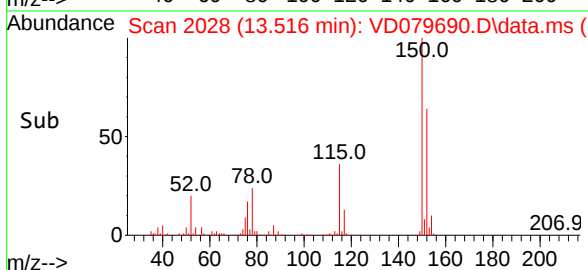
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Ion Ratio Lower Upper  
117 100  
82 54.4 39.8 59.6  
119 32.6 25.7 38.5

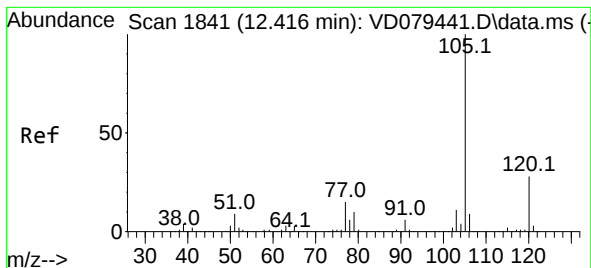


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49



Tgt Ion:152 Resp: 199628  
Ion Ratio Lower Upper  
152 100  
115 57.7 26.5 79.5  
150 158.2 0.0 341.6





#73

Isopropylbenzene

Concen: 3.640 ug/l

RT: 12.416 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VD079690.D

Acq: 09 Aug 2024 13:49

Instrument :

MSVOA\_D

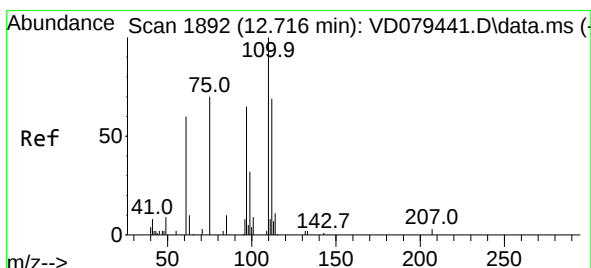
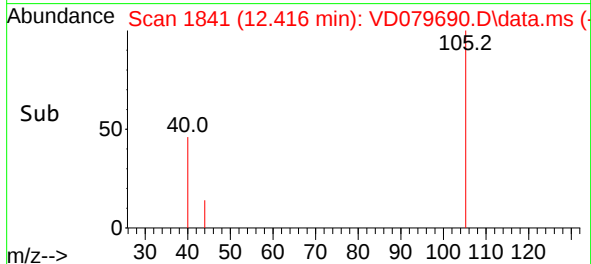
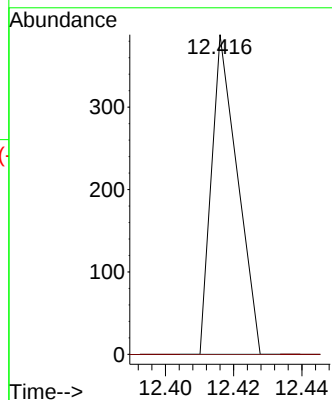
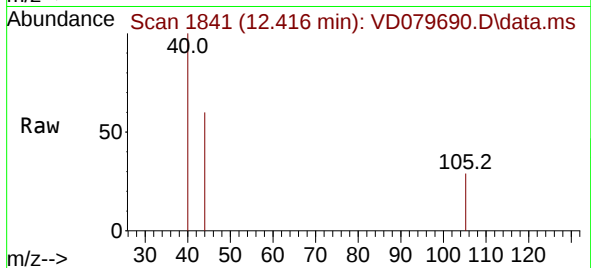
ClientSampleId :

Tgt Ion:105 Resp: 205

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 35.150 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.153 min

Lab File: VD079690.D

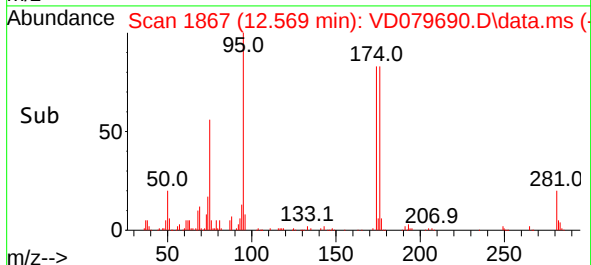
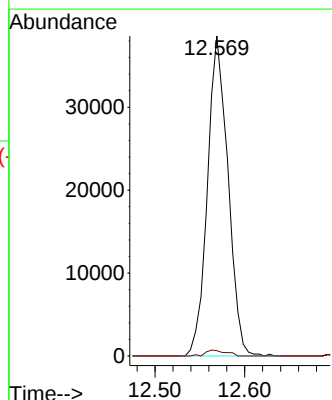
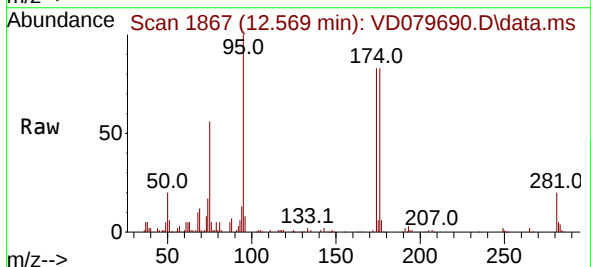
Acq: 09 Aug 2024 13:49

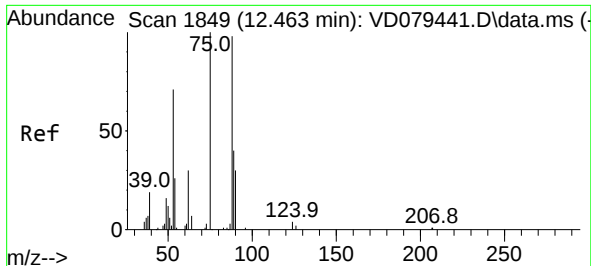
Tgt Ion: 75 Resp: 61335

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#

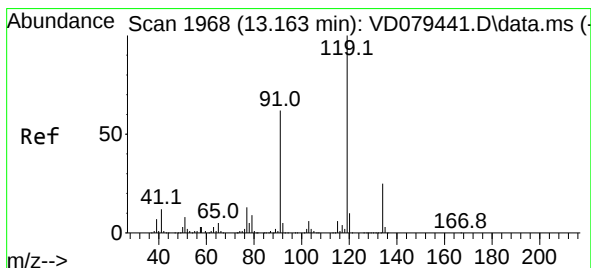
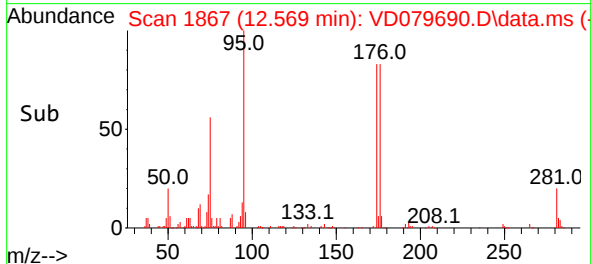
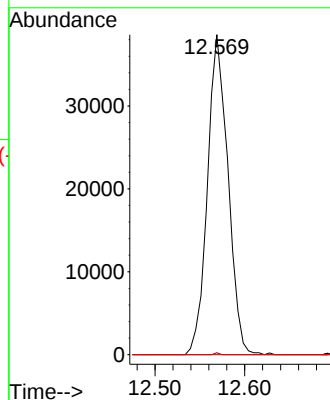
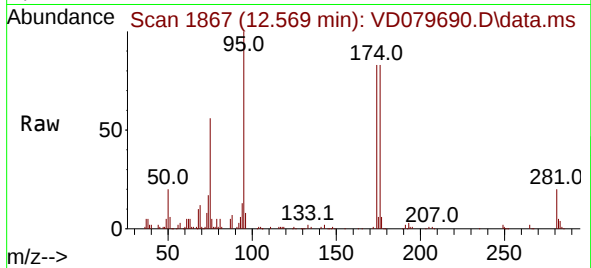




#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.041 ug/l  
RT: 12.569 min Scan# 1849  
Delta R.T. 0.100 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

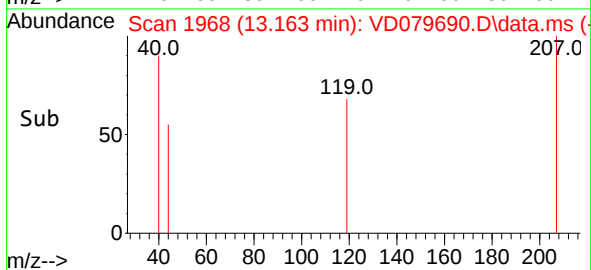
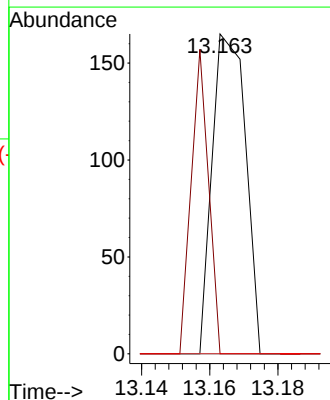
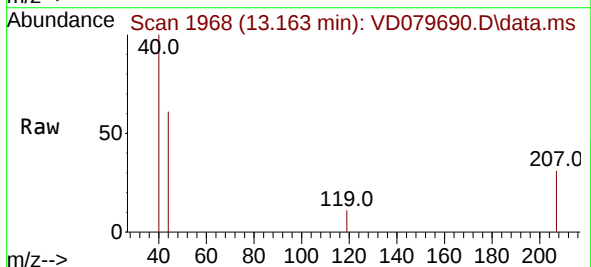
Instrument :  
MSVOA\_D  
ClientSampleId :

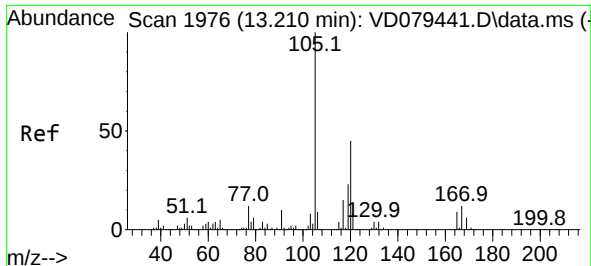
Tgt Ion: 75 Resp: 61335  
Ion Ratio Lower Upper  
75 100  
53 0.1 61.4 92.2#  
89 0.0 35.4 53.0#



#83  
tert-Butylbenzene  
Concen: 3.637 ug/l  
RT: 13.163 min Scan# 1968  
Delta R.T. 0.000 min  
Lab File: VD079690.D  
Acq: 09 Aug 2024 13:49

Tgt Ion: 119 Resp: 112  
Ion Ratio Lower Upper  
119 100  
91 49.1 28.2 84.7  
134 0.0 13.4 40.1#

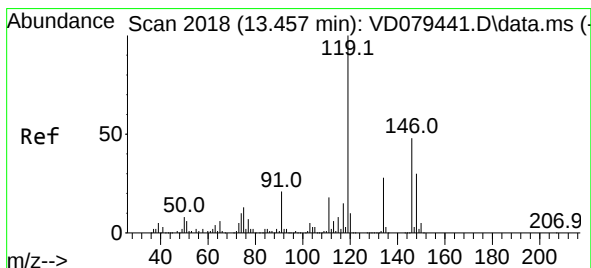
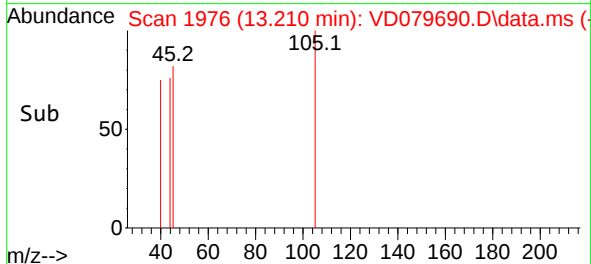
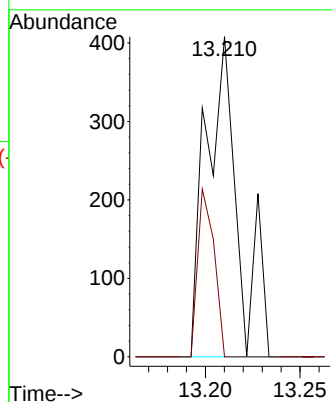
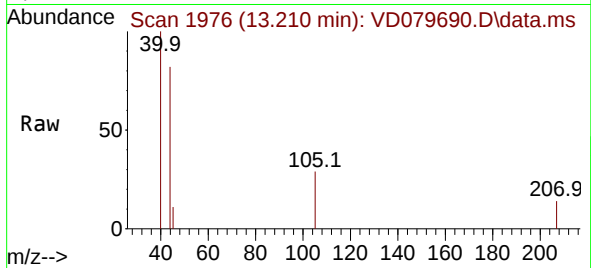




#84  
 1,2,4-Trimethylbenzene  
 Concen: 3.464 ug/l  
 RT: 13.210 min Scan# 1976  
 Delta R.T. 0.006 min  
 Lab File: VD079690.D  
 Acq: 09 Aug 2024 13:49

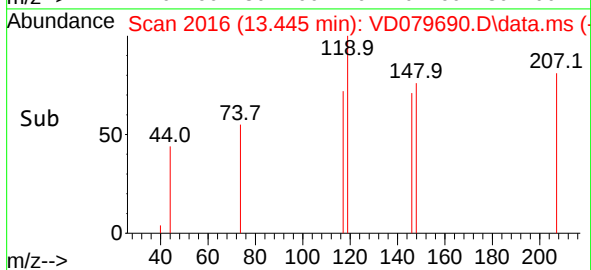
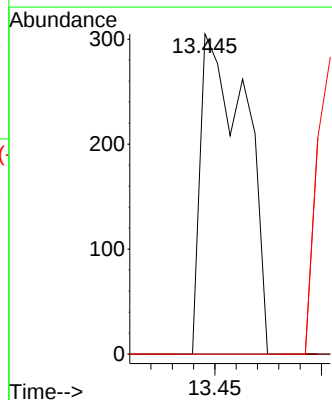
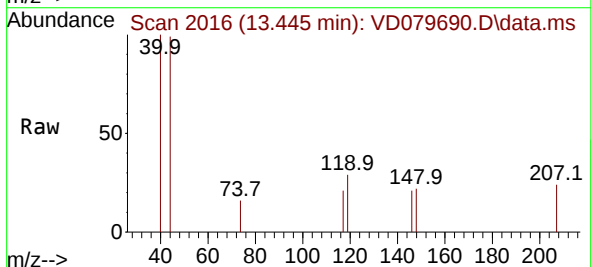
Instrument :  
 MSVOA\_D  
 ClientSampleId :

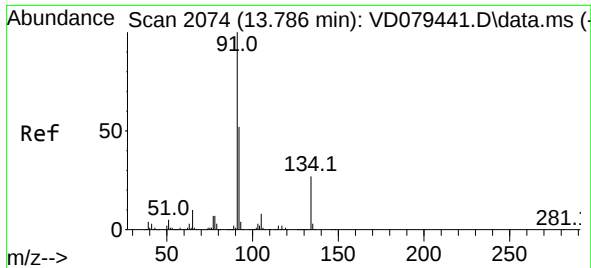
Tgt Ion:105 Resp: 482  
 Ion Ratio Lower Upper  
 105 100  
 120 26.6 23.6 71.0



#86  
 p-Isopropyltoluene  
 Concen: 3.916 ug/l  
 RT: 13.445 min Scan# 2016  
 Delta R.T. -0.012 min  
 Lab File: VD079690.D  
 Acq: 09 Aug 2024 13:49

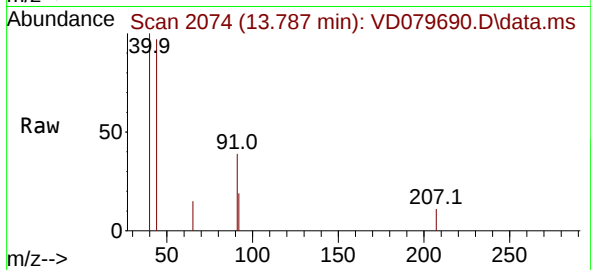
Tgt Ion:119 Resp: 445  
 Ion Ratio Lower Upper  
 119 100  
 134 0.0 13.7 41.1#  
 91 0.0 10.7 32.1#





#89  
 n-Butylbenzene  
 Concen: 3.831 ug/l  
 RT: 13.787 min Scan# 2074  
 Delta R.T. 0.005 min  
 Lab File: VD079690.D  
 Acq: 09 Aug 2024 13:49

Instrument :  
 MSVOA\_D  
 ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 91 | Resp: 686      |
| Ion Ratio   | Lower Upper    |
| 91          | 100            |
| 92          | 42.0 25.7 77.0 |
| 134         | 21.9 13.6 40.8 |

