

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD073124\  
 Data File : VD079504.D  
 Acq On : 31 Jul 2024 18:55  
 Operator : RP/MD  
 Sample : P3387-04  
 Misc : 4.54G/5.0ml/MSVOA\_D/SOIL/B  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 01 01:54:46 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  | 136988   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.775  | 114  | 230107   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 155087   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152  | 33362    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.228  | 65    | 94612    | 67.985   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 135.960% |
| 35) Dibromofluoromethane    | 7.804  | 113   | 100607   | 64.596   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 129.200% |
| 50) Toluene-d8              | 10.269 | 98    | 267665   | 44.255   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 88.520%  |
| 62) 4-Bromofluorobenzene    | 12.569 | 95    | 42927    | 24.526   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 49.060%  |

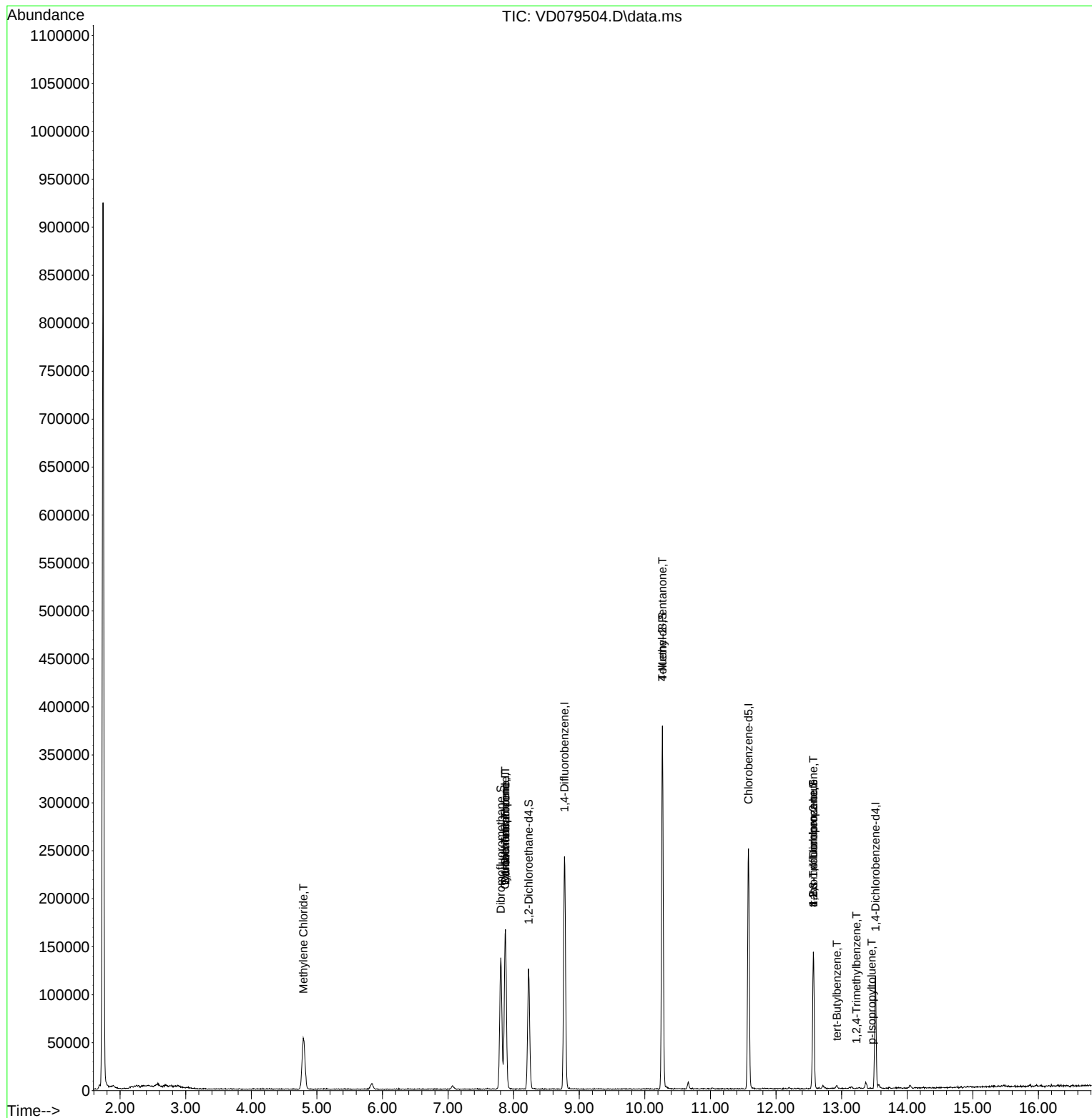
| Target Compounds              | R.T.   | QIon | Response | Conc      | Units | Qvalue |
|-------------------------------|--------|------|----------|-----------|-------|--------|
| 5) Bromomethane               | 2.693  | 94   | 217      | Below Cal | #     | 1      |
| 20) Methylene Chloride        | 4.793  | 84   | 44962    | 10.709    | ug/l  | 87     |
| 31) Cyclohexane               | 7.869  | 56   | 2643     | 1.144     | ug/l  | # 38   |
| 36) 1,1-Dichloropropene       | 7.875  | 75   | 10426    | 4.905     | ug/l  | # 42   |
| 38) Carbon Tetrachloride      | 7.875  | 117  | 12848    | 5.749     | ug/l  | # 17   |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 1053     | 1.259     | ug/l  | # 1    |
| 76) 1,2,3-Trichloropropane    | 12.569 | 75   | 20966    | 71.896    | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75   | 20966    | 137.124   | ug/l  | # 19   |
| 83) tert-Butylbenzene         | 12.928 | 119  | 55       | 3.656     | ug/l  | # 31   |
| 84) 1,2,4-Trimethylbenzene    | 13.228 | 105  | 143      | 3.492     | ug/l  | # 29   |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 54       | 3.908     | ug/l  | # 51   |

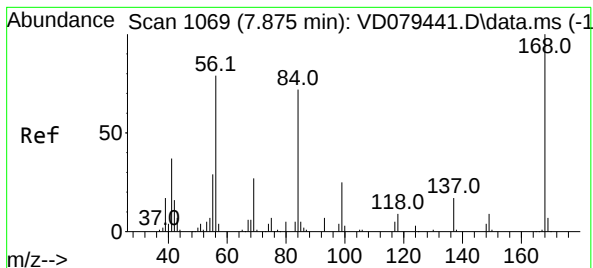
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD073124\  
Data File : VD079504.D  
Acq On : 31 Jul 2024 18:55  
Operator : RP/MD  
Sample : P3387-04  
Misc : 4.54G/5.0ml/MSVOA\_D/SOIL/B  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

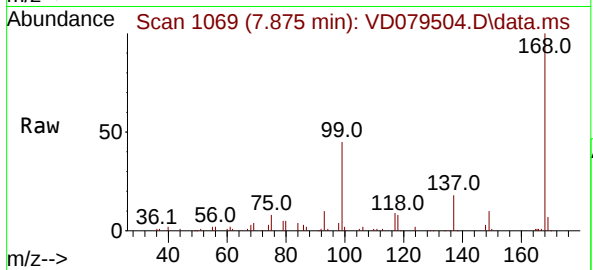
Quant Time: Aug 01 01:54:46 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072924S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:50:47 2024  
Response via : Initial Calibration



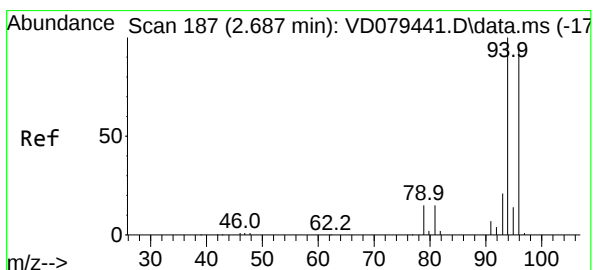
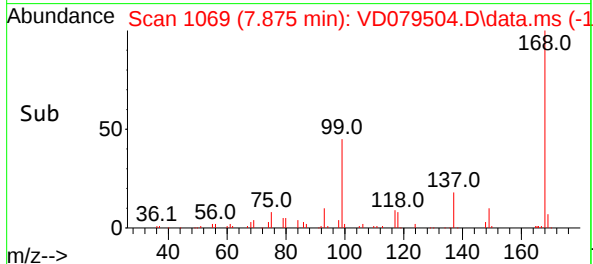
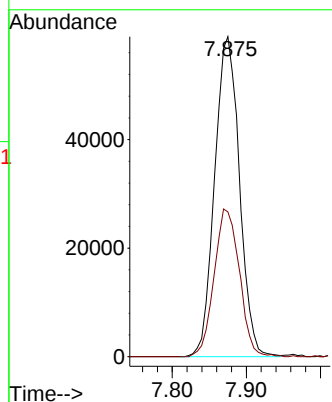


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

Instrument :  
MSVOA\_D  
ClientSampleId :

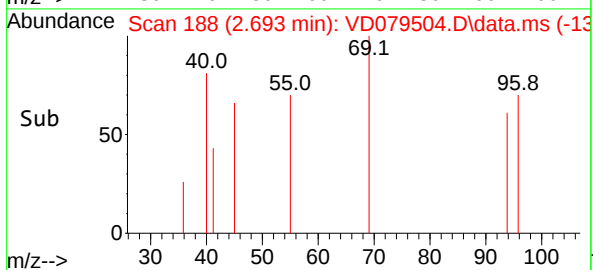
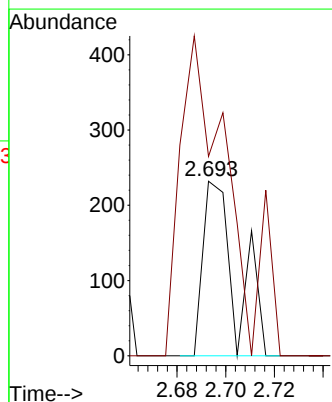
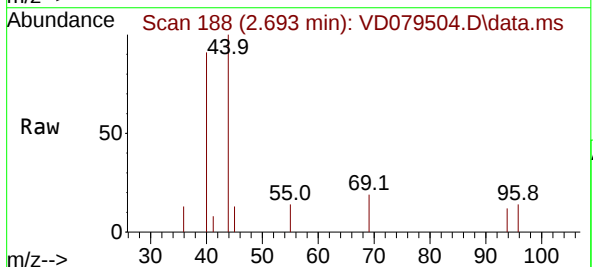


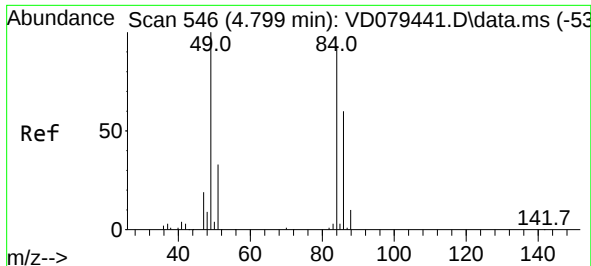
Tgt Ion:168 Resp: 136988  
Ion Ratio Lower Upper  
168 100  
99 45.3 41.1 61.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.693 min Scan# 188  
Delta R.T. 0.006 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

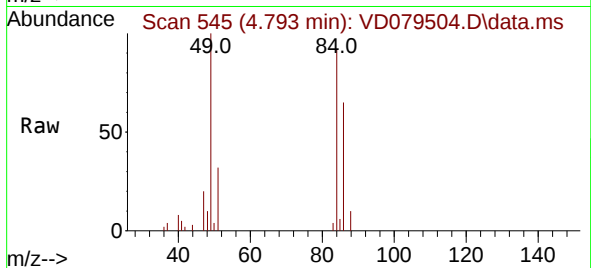
Tgt Ion: 94 Resp: 217  
Ion Ratio Lower Upper  
94 100  
96 239.2 76.9 115.3#



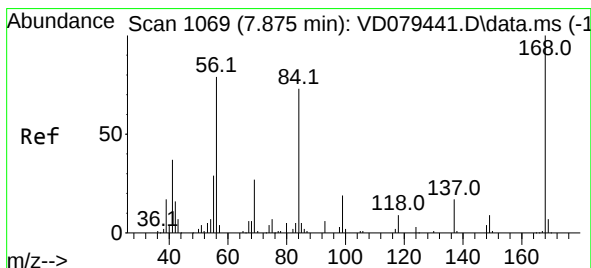
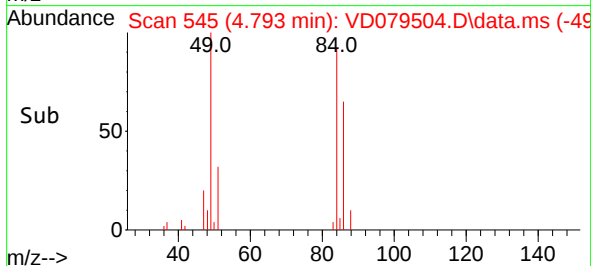
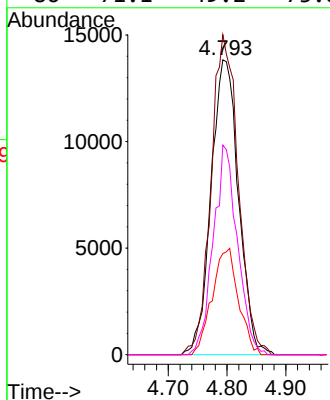


#20  
Methylene Chloride  
Concen: 10.709 ug/l  
RT: 4.793 min Scan# 546  
Delta R.T. -0.006 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

Instrument :  
MSVOA\_D  
ClientSampleId :

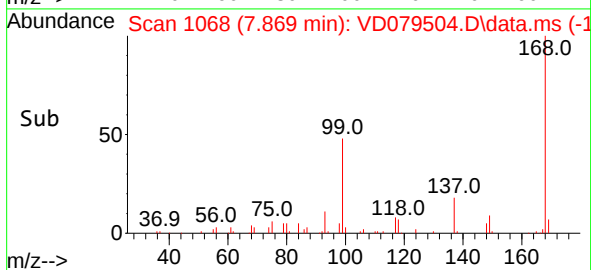
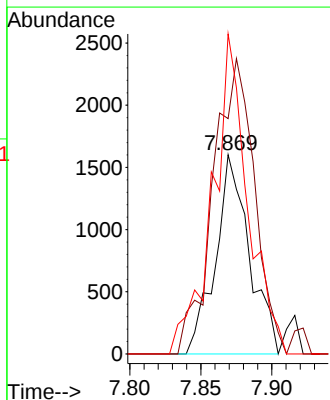
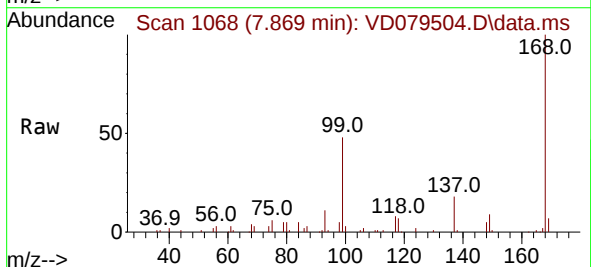


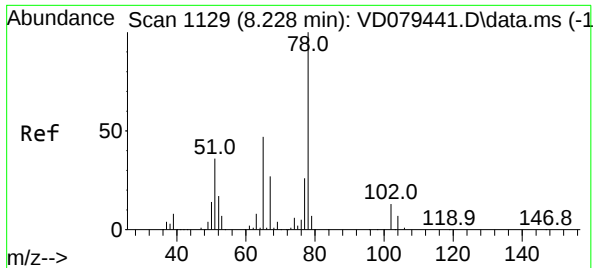
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 44962 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 108.5    | 75.6 113.4  |
| 51 34.3     | 24.2 36.2   |
| 86 71.1     | 49.2 73.8   |



#31  
Cyclohexane  
Concen: 1.144 ug/l  
RT: 7.869 min Scan# 1068  
Delta R.T. -0.012 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

|             |            |       |        |
|-------------|------------|-------|--------|
| Tgt Ion: 56 | Resp: 2643 |       |        |
| Ion Ratio   | Lower      | Upper |        |
| 56          | 100        |       |        |
| 69          | 118.2      | 28.0  | 42.0#  |
| 84          | 146.7      | 87.4  | 131.0# |

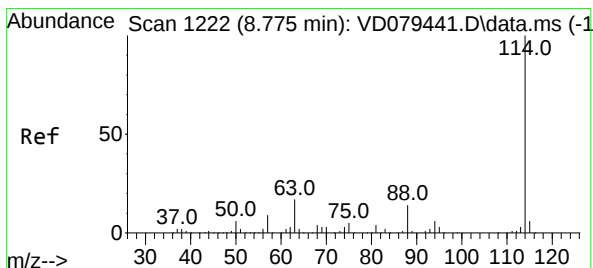
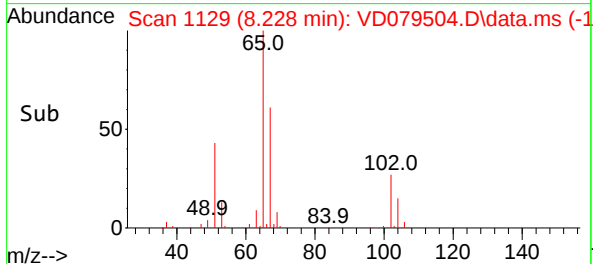
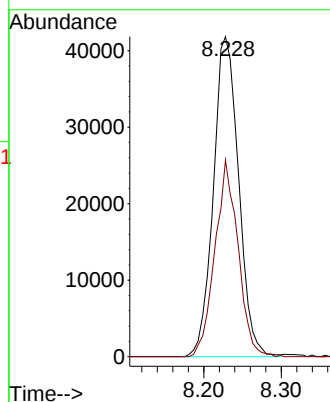
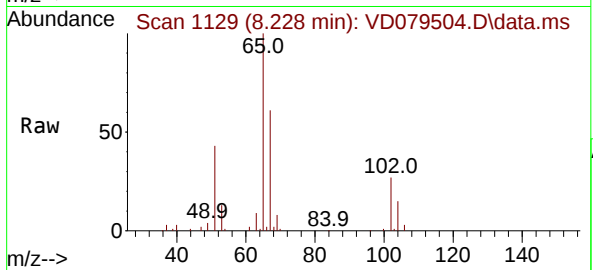




#33  
 1,2-Dichloroethane-d4  
 Concen: 67.985 ug/l  
 RT: 8.228 min Scan# 1129  
 Delta R.T. -0.000 min  
 Lab File: VD079504.D  
 Acq: 31 Jul 2024 18:55

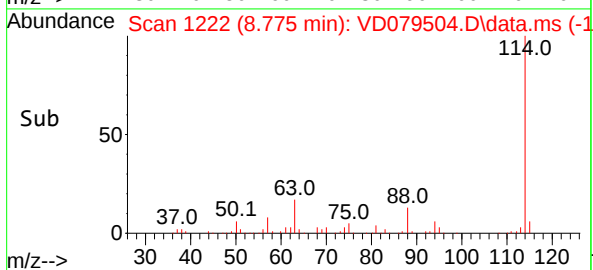
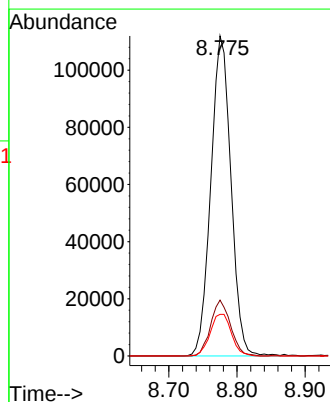
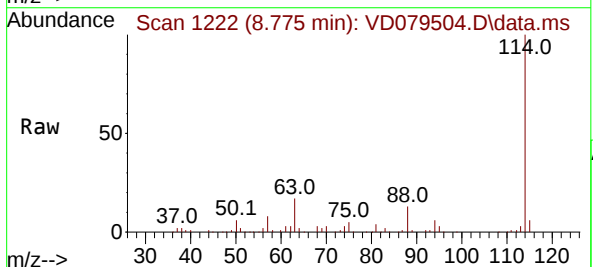
Instrument :  
 MSVOA\_D  
 ClientSampleId :

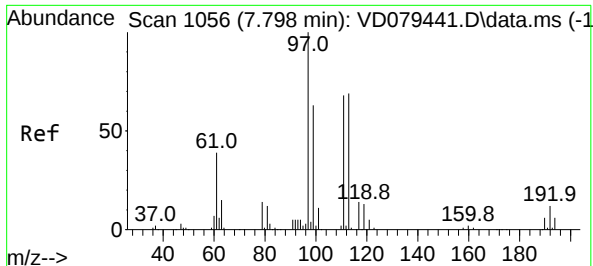
Tgt Ion: 65 Resp: 94612  
 Ion Ratio Lower Upper  
 65 100  
 67 56.3 0.0 111.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.775 min Scan# 1222  
 Delta R.T. -0.000 min  
 Lab File: VD079504.D  
 Acq: 31 Jul 2024 18:55

Tgt Ion: 114 Resp: 230107  
 Ion Ratio Lower Upper  
 114 100  
 63 17.4 0.0 34.0  
 88 13.0 0.0 27.2





#35

Dibromofluoromethane

Concen: 64.596 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VD079504.D

Acq: 31 Jul 2024 18:55

Instrument :

MSVOA\_D

ClientSampleId :

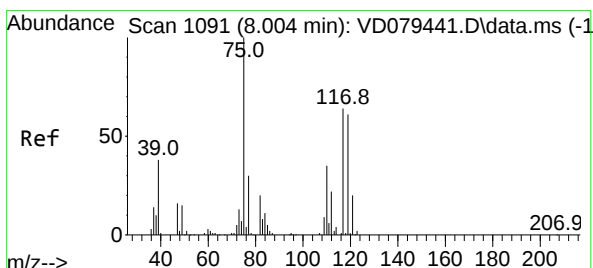
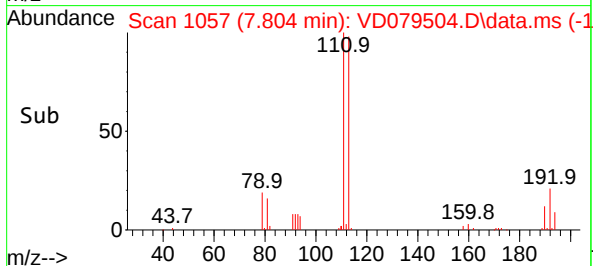
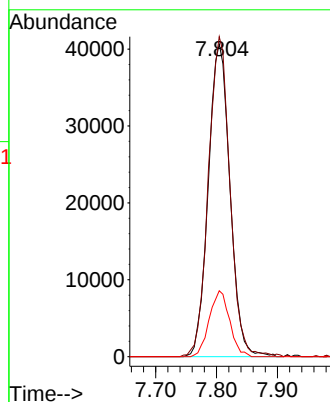
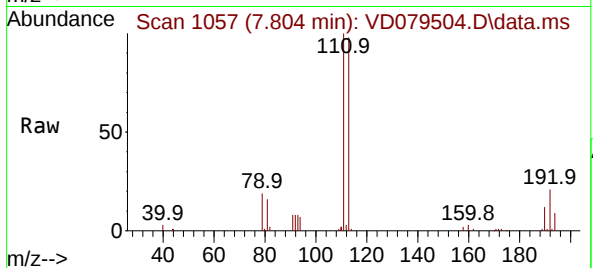
Tgt Ion:113 Resp: 100607

Ion Ratio Lower Upper

113 100

111 101.8 84.0 126.0

192 19.7 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.905 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD079504.D

Acq: 31 Jul 2024 18:55

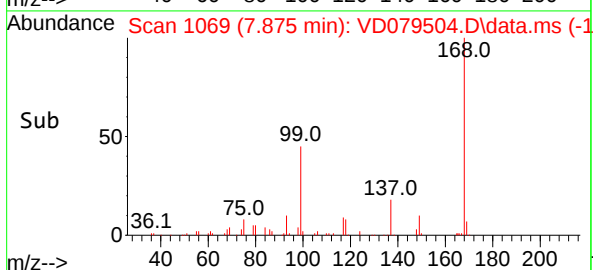
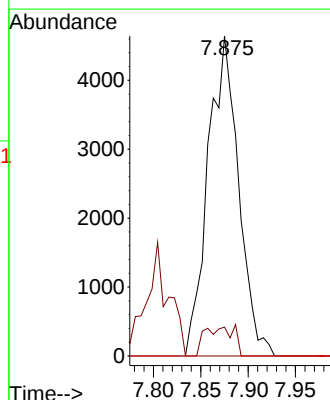
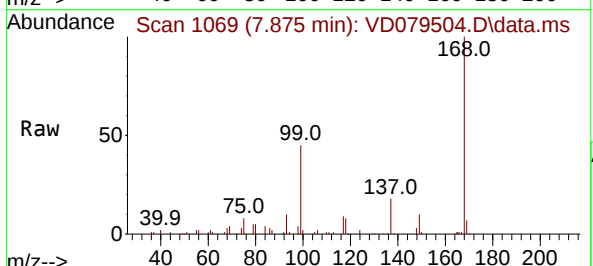
Tgt Ion: 75 Resp: 10426

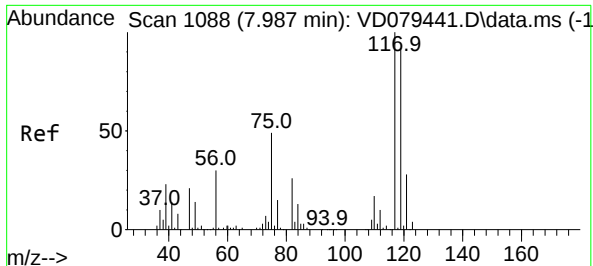
Ion Ratio Lower Upper

75 100

110 3.6 19.6 58.7#

77 0.0 26.1 39.1#





#38

Carbon Tetrachloride

Concen: 5.749 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.112 min

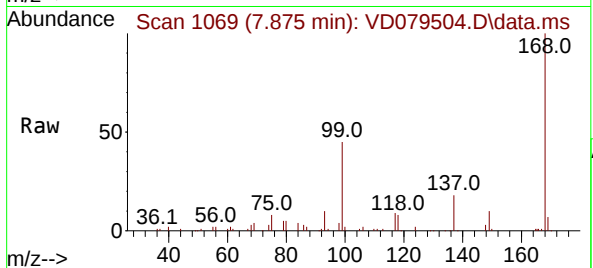
Lab File: VD079504.D

Acq: 31 Jul 2024 18:55

Instrument :

MSVOA\_D

ClientSampleId :



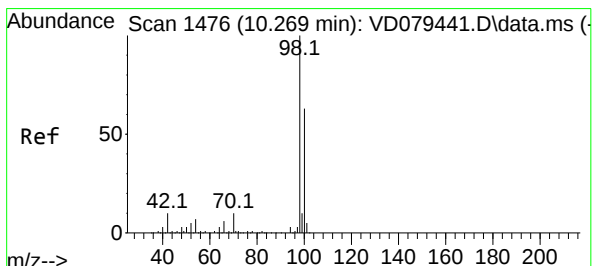
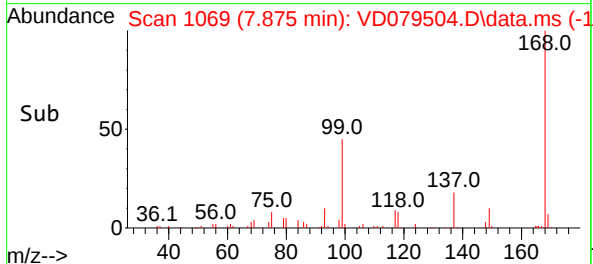
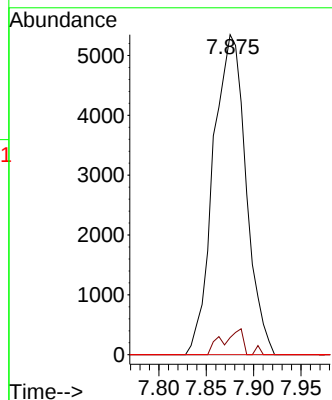
Tgt Ion:117 Resp: 12848

Ion Ratio Lower Upper

117 100

119 5.3 75.4 113.0#

121 0.0 25.0 37.4#



#50

Toluene-d8

Concen: 44.255 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.006 min

Lab File: VD079504.D

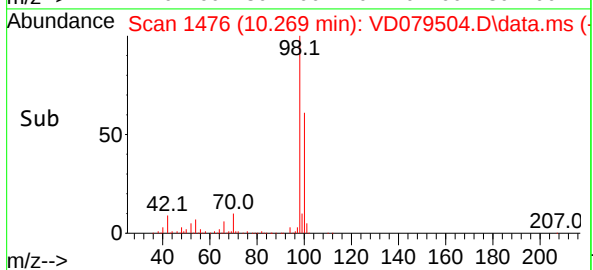
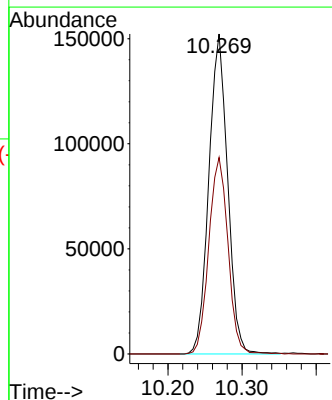
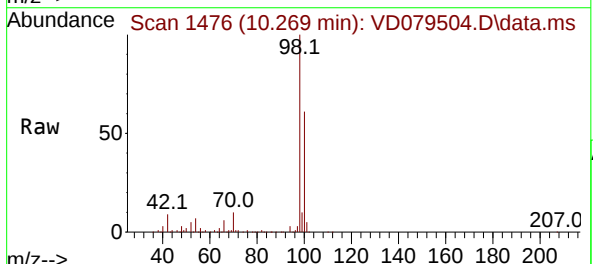
Acq: 31 Jul 2024 18:55

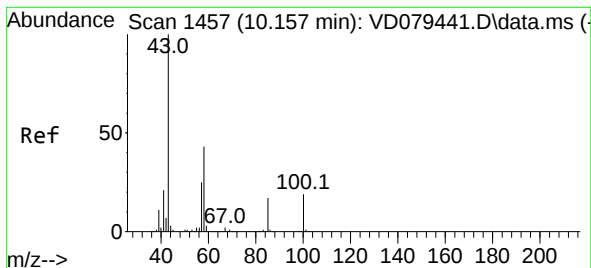
Tgt Ion: 98 Resp: 267665

Ion Ratio Lower Upper

98 100

100 62.7 51.6 77.4

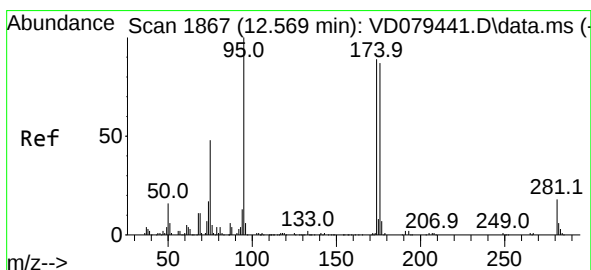
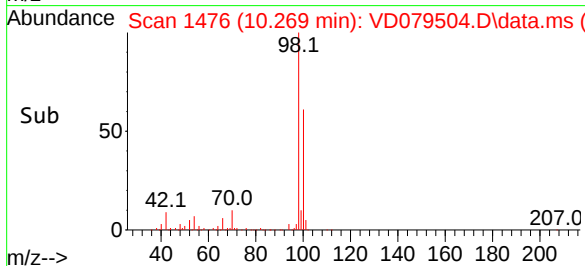
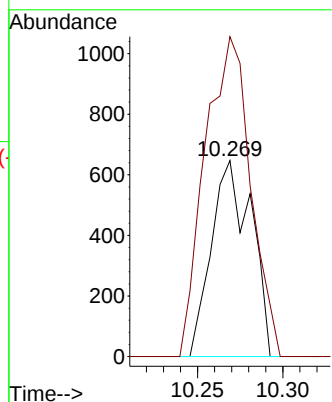
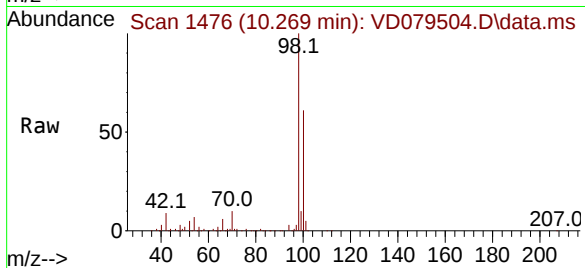




#51  
4-Methyl-2-Pentanone  
Concen: 1.259 ug/l  
RT: 10.269 min Scan# 1457  
Delta R.T. 0.112 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

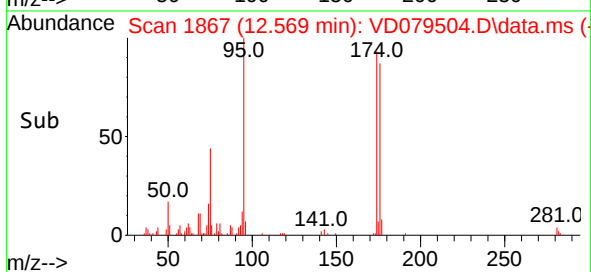
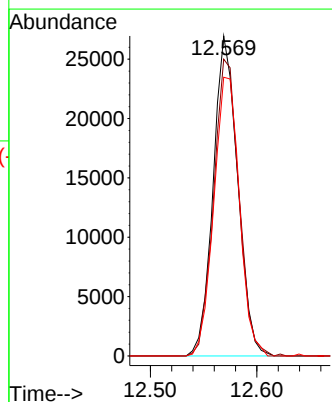
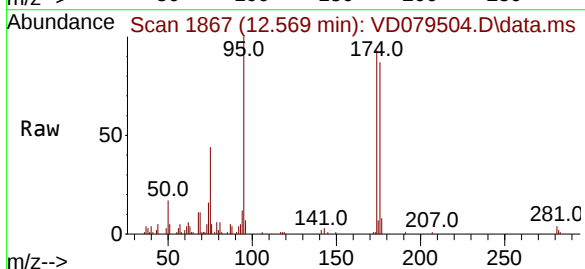
Instrument :  
MSVOA\_D  
ClientSampleId :

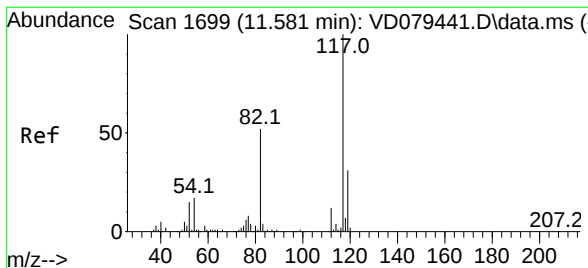
Tgt Ion: 43 Resp: 1053  
Ion Ratio Lower Upper  
43 100  
58 186.9 36.6 55.0#



#62  
4-Bromofluorobenzene  
Concen: 24.526 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.000 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

Tgt Ion: 95 Resp: 42927  
Ion Ratio Lower Upper  
95 100  
174 96.1 0.0 195.4  
176 91.3 0.0 192.6

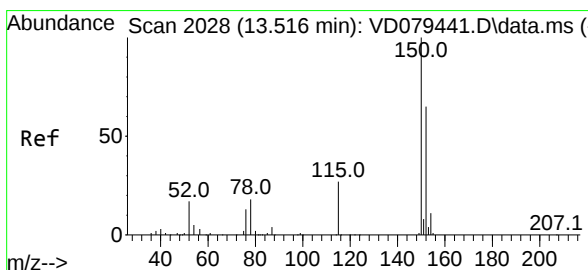
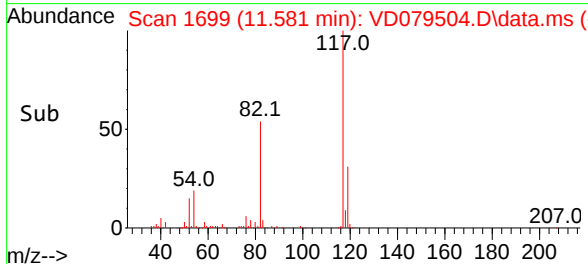
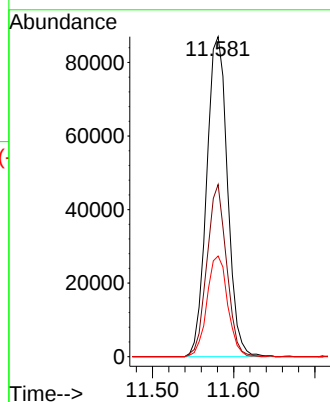
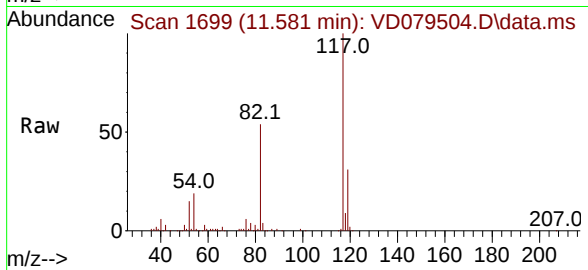




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

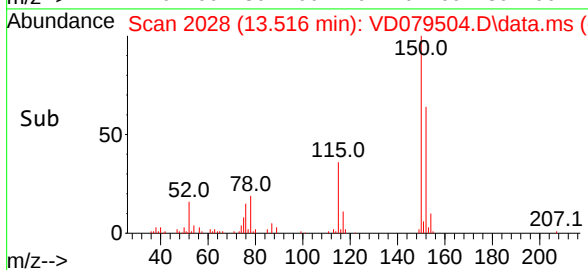
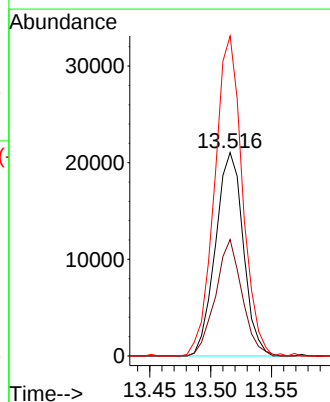
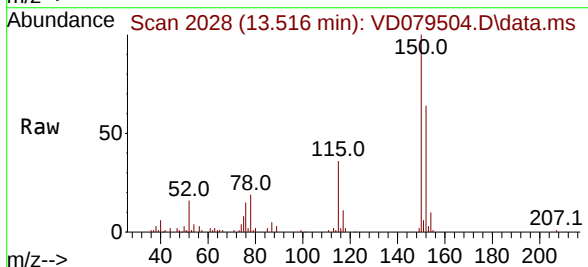
Instrument :  
MSVOA\_D  
ClientSampleId :

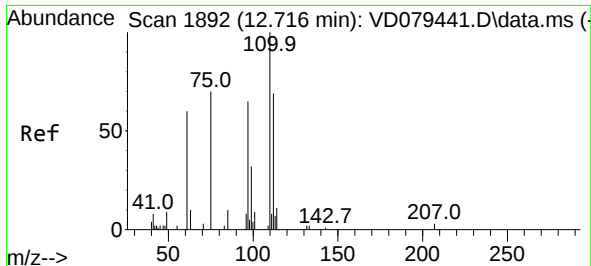
Tgt Ion:117 Resp: 155087  
Ion Ratio Lower Upper  
117 100  
82 53.8 39.8 59.6  
119 31.5 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

Tgt Ion:152 Resp: 33362  
Ion Ratio Lower Upper  
152 100  
115 55.0 26.5 79.5  
150 157.4 0.0 341.6

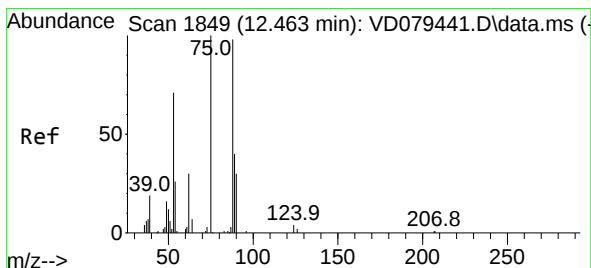
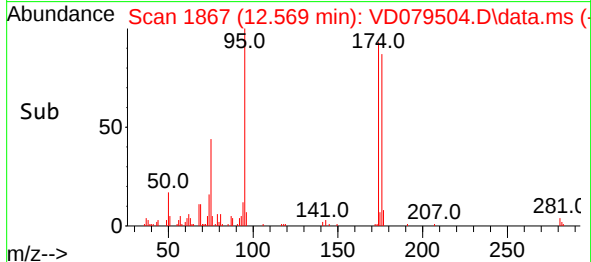
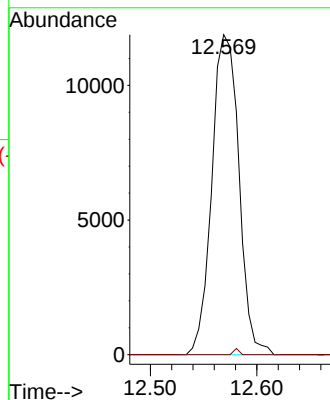
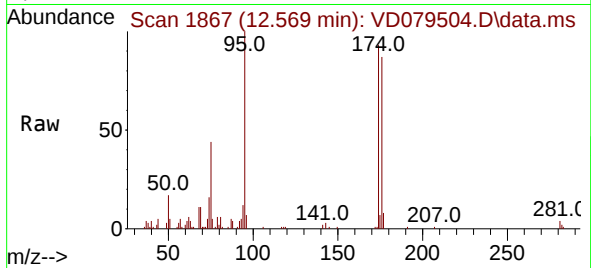




#76  
1,2,3-Trichloropropane  
Concen: 71.896 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.153 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

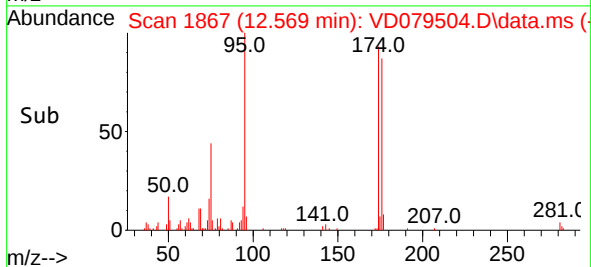
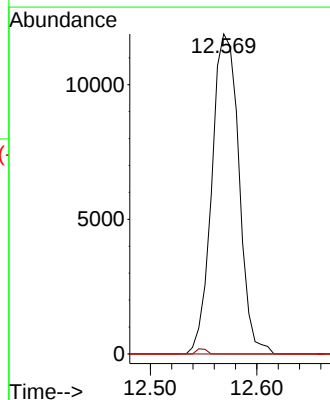
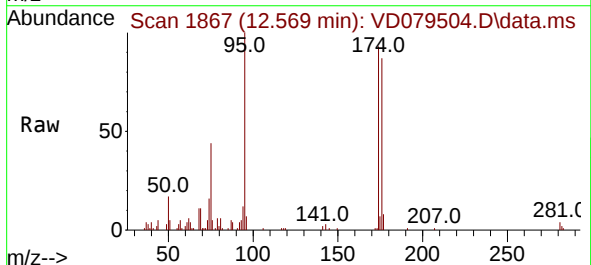
Instrument :  
MSVOA\_D  
ClientSampleId :

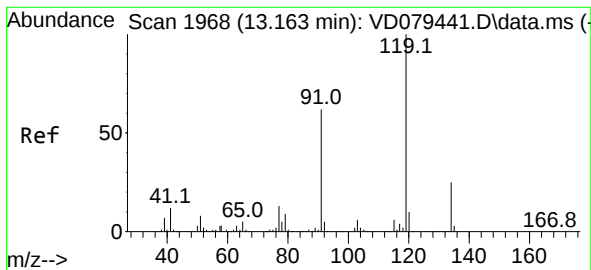
Tgt Ion: 75 Resp: 20966  
Ion Ratio Lower Upper  
75 100  
77 0.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 137.124 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.100 min  
Lab File: VD079504.D  
Acq: 31 Jul 2024 18:55

Tgt Ion: 75 Resp: 20966  
Ion Ratio Lower Upper  
75 100  
53 0.0 61.4 92.2#  
89 0.0 35.4 53.0#





#83

tert-Butylbenzene

Concen: 3.656 ug/l

RT: 12.928 min Scan# 1928

Delta R.T. -0.235 min

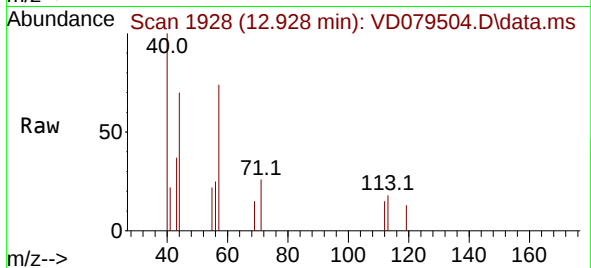
Lab File: VD079504.D

Acq: 31 Jul 2024 18:55

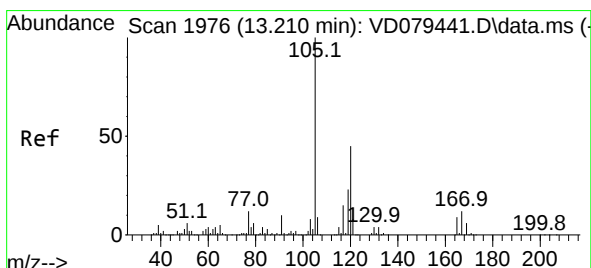
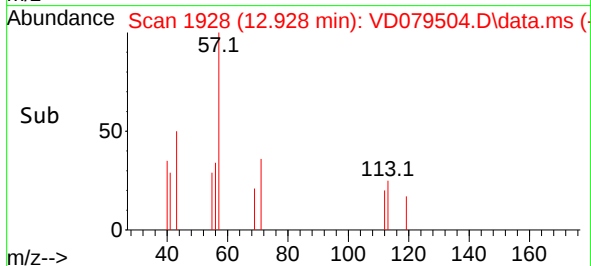
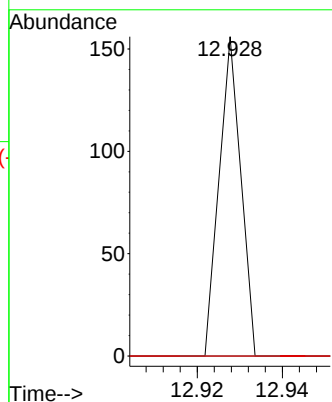
Instrument :

MSVOA\_D

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 55    |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 0.0   | 28.2  | 84.7# |
| 134      | 0.0   | 13.4  | 40.1# |



#84

1,2,4-Trimethylbenzene

Concen: 3.492 ug/l

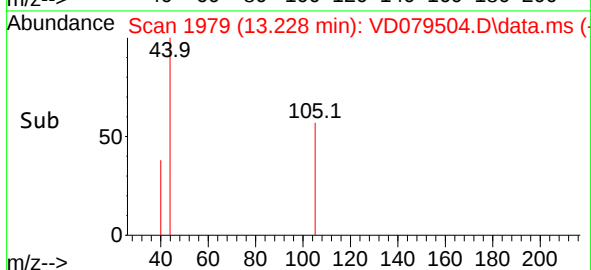
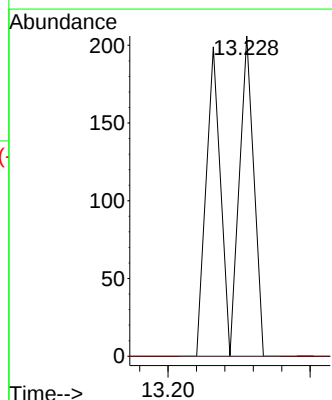
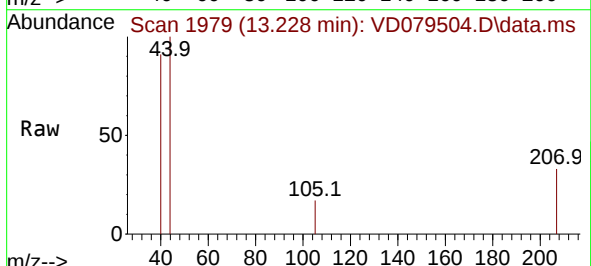
RT: 13.228 min Scan# 1979

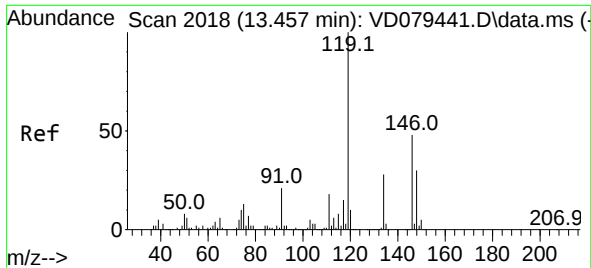
Delta R.T. 0.024 min

Lab File: VD079504.D

Acq: 31 Jul 2024 18:55

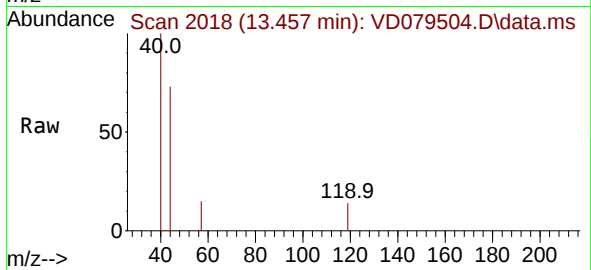
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 143   |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 0.0   | 23.6  | 71.0# |





#86  
 p-Isopropyltoluene  
 Concen: 3.908 ug/l  
 RT: 13.457 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VD079504.D  
 Acq: 31 Jul 2024 18:55

Instrument :  
 MSVOA\_D  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 54    |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 0.0   | 13.7  | 41.1# |
| 91       | 0.0   | 10.7  | 32.1# |

