

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021325\  
 Data File : VU063266.D  
 Acq On : 13 Feb 2025 16:37  
 Operator : MD/SY  
 Sample : Q1172-08DL 5X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PT-UNRVOA-WSDL

Quant Time: Feb 14 04:45:56 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U021025DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 11 08:42:19 2025  
 Response via : Initial Calibration

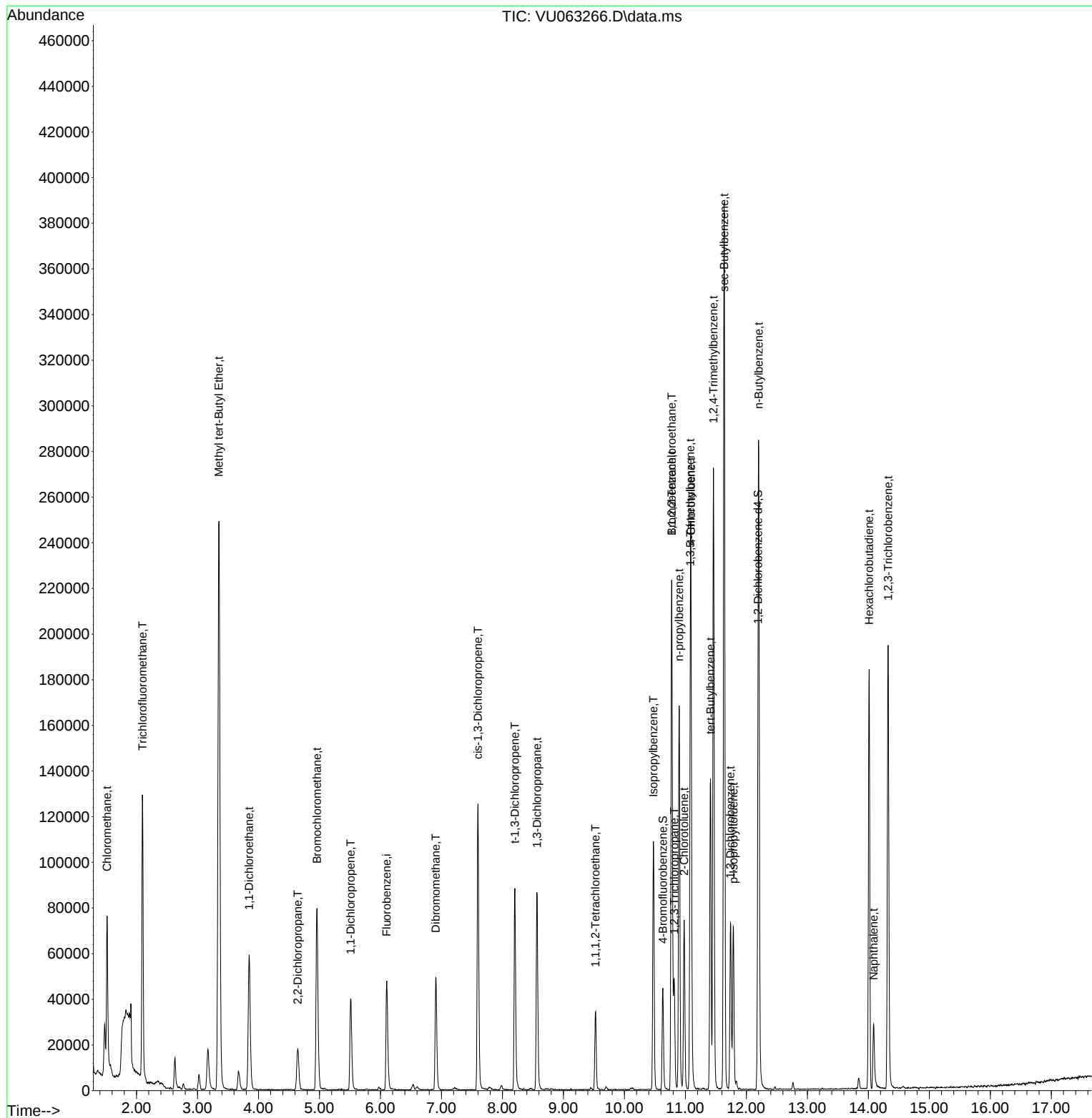
| Compound                      | R.T.   | QIon | Response | Conc  | Units    | Dev(Min) |
|-------------------------------|--------|------|----------|-------|----------|----------|
| -----                         |        |      |          |       |          |          |
| Internal Standards            |        |      |          |       |          |          |
| 1) Fluorobenzene              | 6.103  | 96   | 45506    | 1.000 | ug/l     | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |          |          |
| 57) 4-Bromofluorobenzene      | 10.630 | 95   | 15292    | 1.019 | ug/l     | 0.00     |
| Spiked Amount                 | 1.000  |      | Recovery | =     | 102.000% |          |
| 68) 1,2-Dichlorobenzene-d4    | 12.190 | 152  | 16940    | 1.085 | ug/l     | 0.00     |
| Spiked Amount                 | 1.000  |      | Recovery | =     | 109.000% |          |
| Target Compounds              |        |      |          |       |          |          |
|                               |        |      |          |       | Qvalue   |          |
| 3) Chloromethane              | 1.518  | 50   | 53909    | 3.166 | ug/l     | 98       |
| 7) Trichlorofluoromethane     | 2.097  | 101  | 80035    | 4.009 | ug/l     | 100      |
| 17) 1,1-Dichloroethane        | 3.846  | 63   | 68684    | 2.765 | ug/l     | 99       |
| 21) 2,2-Dichloropropane       | 4.644  | 77   | 13370    | 0.690 | ug/l     | 91       |
| 25) Methyl tert-Butyl Ether   | 3.351  | 73   | 272906   | 9.465 | ug/l     | 99       |
| 26) Bromochloromethane        | 4.959  | 128  | 25269    | 4.061 | ug/l     | 99       |
| 29) 1,1-Dichloropropene       | 5.512  | 75   | 23615    | 1.299 | ug/l     | 99       |
| 43) Dibromomethane            | 6.907  | 93   | 20459    | 2.761 | ug/l     | 100      |
| 50) t-1,3-Dichloropropene     | 8.203  | 75   | 49437    | 3.131 | ug/l     | 97       |
| 51) cis-1,3-Dichloropropene   | 7.598  | 75   | 74724    | 3.831 | ug/l     | 100      |
| 53) 1,3-Dichloropropane       | 8.566  | 76   | 52000    | 2.931 | ug/l     | 99       |
| 60) 1,1,1,2-Tetrachloroethane | 9.528  | 131  | 9339     | 0.766 | ug/l     | 97       |
| 69) Isopropylbenzene          | 10.476 | 105  | 68948    | 1.370 | ug/l     | 98       |
| 70) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 19521    | 1.450 | ug/l #   | 94       |
| 71) 1,2,3-Trichloropropane    | 10.817 | 75   | 19186    | 1.896 | ug/l #   | 95       |
| 72) Bromobenzene              | 10.775 | 156  | 52410    | 3.866 | ug/l     | 94       |
| 73) n-propylbenzene           | 10.897 | 120  | 27477    | 1.908 | ug/l     | 97       |
| 74) 2-Chlorotoluene           | 10.981 | 126  | 13781    | 1.038 | ug/l     | 100      |
| 75) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 65754    | 1.411 | ug/l     | 99       |
| 76) 4-Chlorotoluene           | 11.093 | 126  | 32946    | 2.420 | ug/l     | 88       |
| 77) tert-Butylbenzene         | 11.412 | 119  | 60529    | 1.284 | ug/l     | 89       |
| 78) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 152063   | 3.288 | ug/l     | 99       |
| 79) sec-Butylbenzene          | 11.634 | 105  | 263980   | 4.398 | ug/l     | 99       |
| 81) p-Isopropyltoluene        | 11.788 | 119  | 38267    | 0.808 | ug/l     | 99       |
| 82) 1,3-Dichlorobenzene       | 11.740 | 146  | 31484    | 1.197 | ug/l     | 99       |
| 84) n-Butylbenzene            | 12.203 | 91   | 141973   | 3.342 | ug/l     | 98       |
| 88) Hexachlorobutadiene       | 14.013 | 225  | 32095    | 3.644 | ug/l     | 99       |
| 89) Naphthalene               | 14.087 | 128  | 28867    | 1.705 | ug/l     | 98       |
| 90) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 64499    | 5.349 | ug/l     | 98       |
| -----                         |        |      |          |       |          |          |

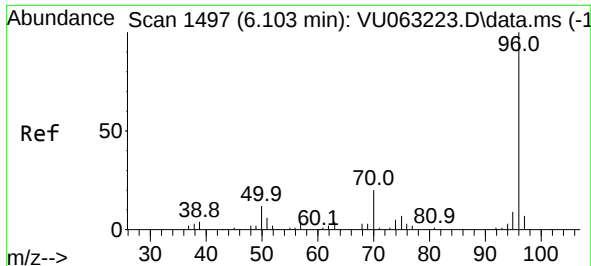
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Tue Feb 11 08:42:19 2025  
Response via : Initial Calibration

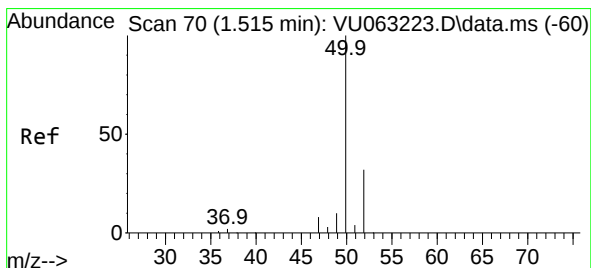
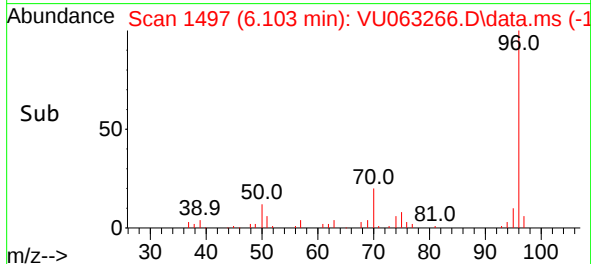
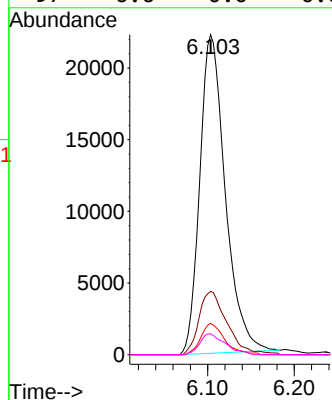
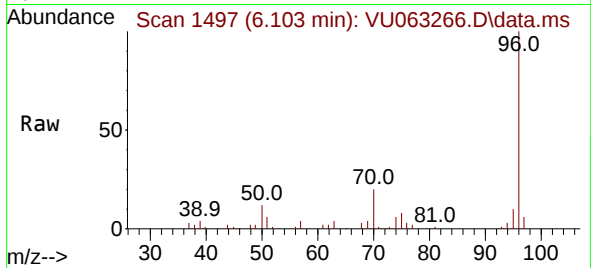




#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.103 min Scan# 1497  
Delta R.T. 0.000 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

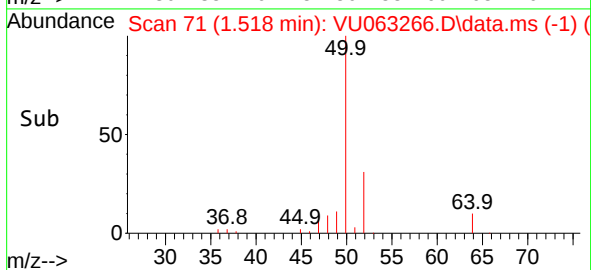
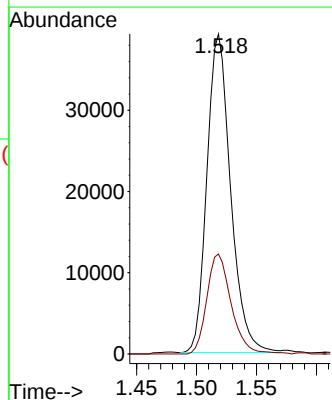
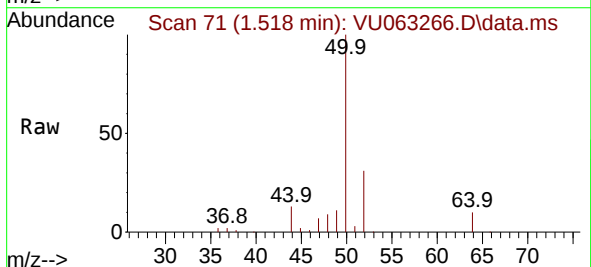
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-UNRVOA-WSDL

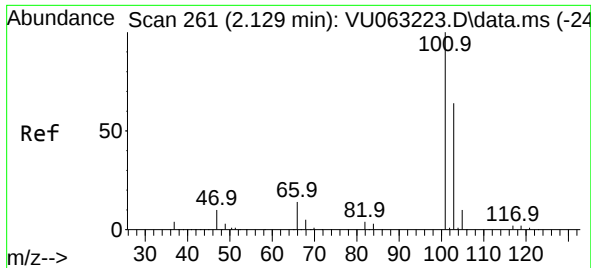
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 45506 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 70       | 21.8  | 15.6  | 23.4  |
| 95       | 9.1   | 7.3   | 10.9  |
| 97       | 6.6   | 0.0   | 0.0   |



#3  
Chloromethane  
Concen: 3.166 ug/l  
RT: 1.518 min Scan# 71  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 50    | Resp: | 53909 |
| Ion      | Ratio | Lower | Upper |
| 50       | 100   |       |       |
| 52       | 31.4  | 25.8  | 38.8  |

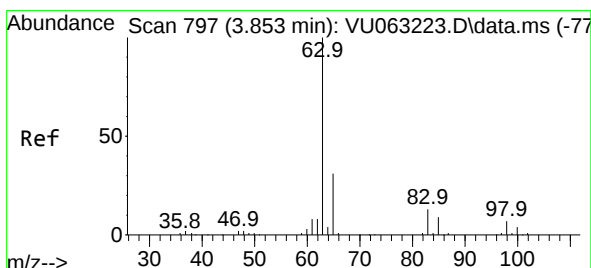
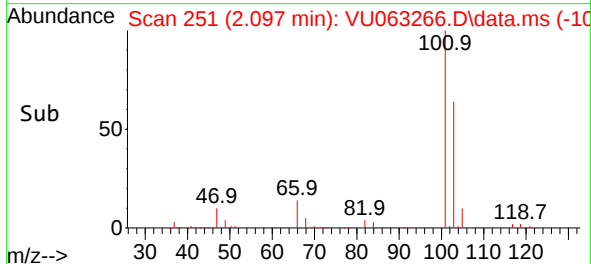
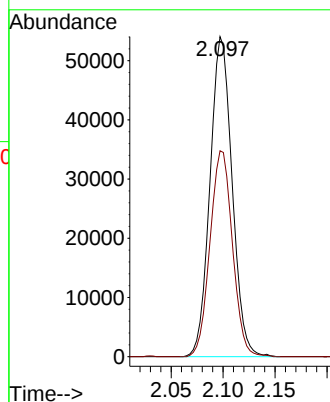
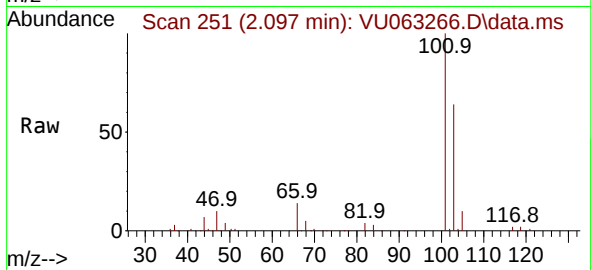




#7  
 Trichlorofluoromethane  
 Concen: 4.009 ug/l  
 RT: 2.097 min Scan# 21  
 Delta R.T. -0.032 min  
 Lab File: VU063266.D  
 Acq: 13 Feb 2025 16:37

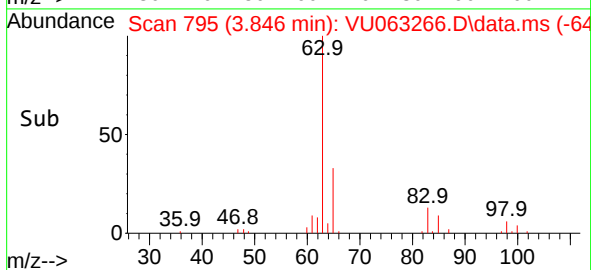
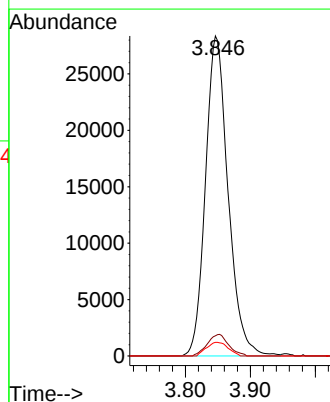
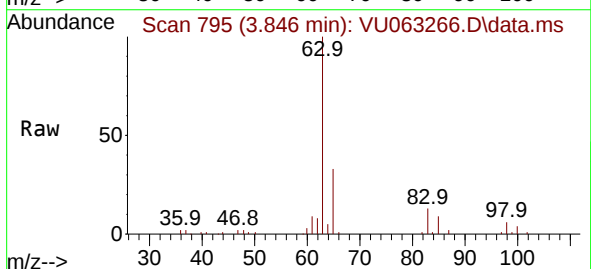
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PT-UNRVOA-WSDL

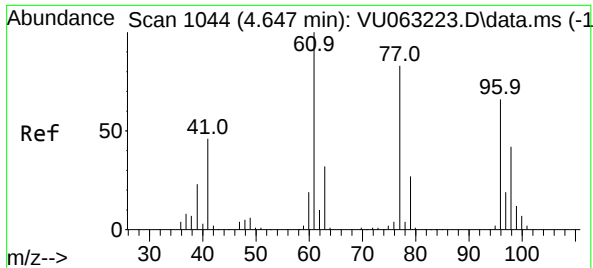
Tgt Ion:101 Resp: 80035  
 Ion Ratio Lower Upper  
 101 100  
 103 64.3 51.4 77.2



#17  
 1,1-Dichloroethane  
 Concen: 2.765 ug/l  
 RT: 3.846 min Scan# 795  
 Delta R.T. -0.007 min  
 Lab File: VU063266.D  
 Acq: 13 Feb 2025 16:37

Tgt Ion: 63 Resp: 68684  
 Ion Ratio Lower Upper  
 63 100  
 98 6.3 3.3 9.9  
 100 4.2 2.1 6.2

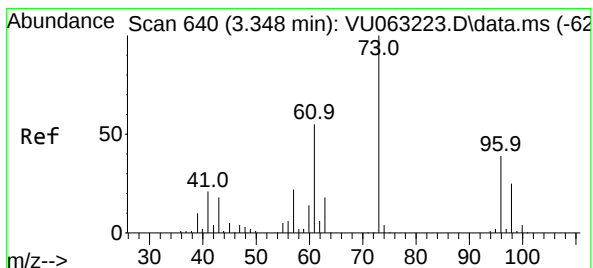
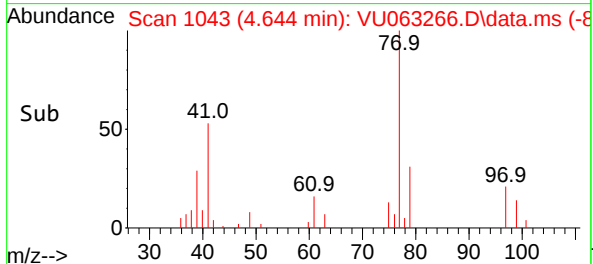
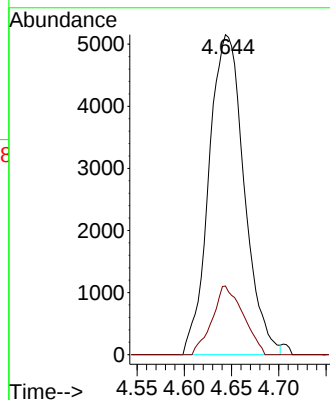
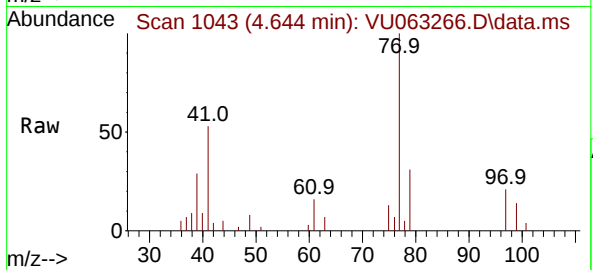




#21  
2,2-Dichloropropane  
Concen: 0.690 ug/l  
RT: 4.644 min Scan# 1043  
Delta R.T. -0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

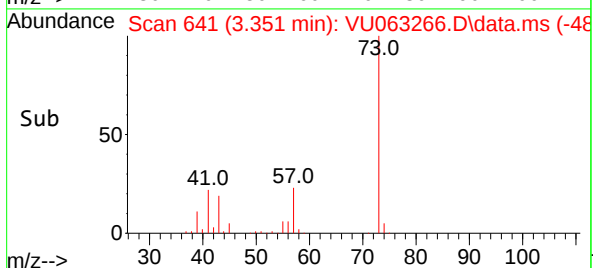
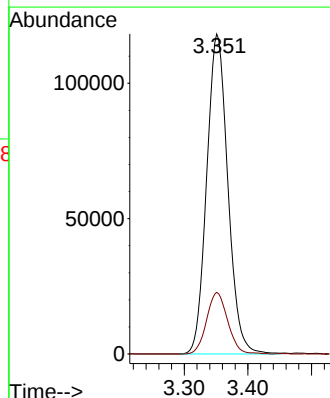
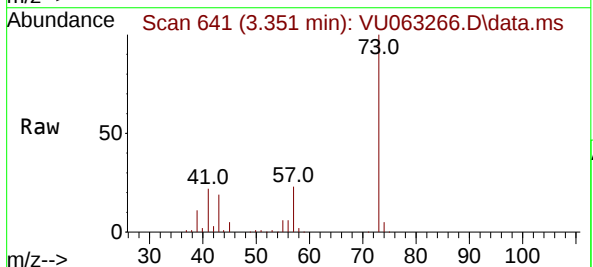
Instrument :  
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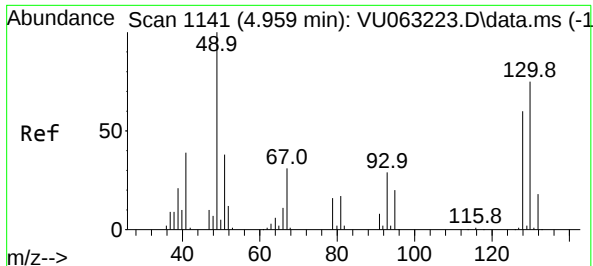
Tgt Ion: 77 Resp: 13370  
Ion Ratio Lower Upper  
77 100  
97 18.8 18.5 27.7



#25  
Methyl tert-Butyl Ether  
Concen: 9.465 ug/l  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

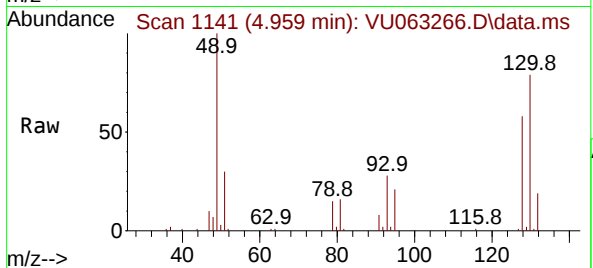
Tgt Ion: 73 Resp: 272906  
Ion Ratio Lower Upper  
73 100  
43 19.2 14.9 22.3



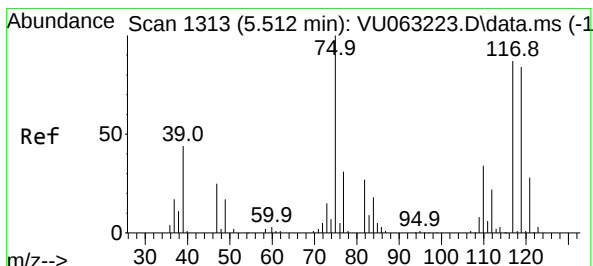
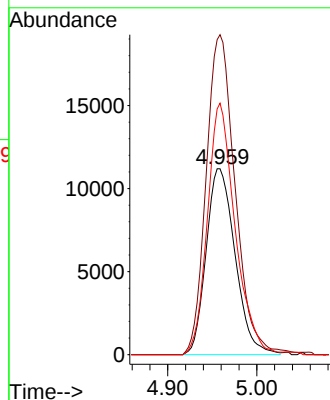
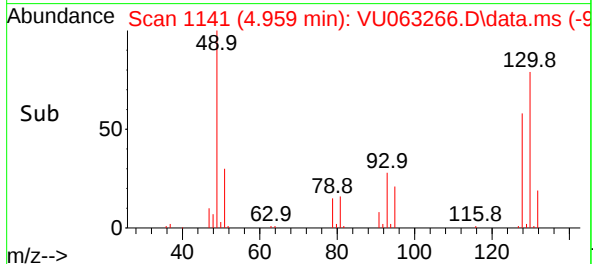


#26  
Bromochloromethane  
Concen: 4.061 ug/l  
RT: 4.959 min Scan# 1141  
Delta R.T. -0.000 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

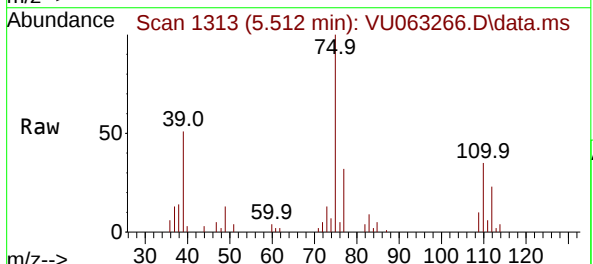
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ClientSampleId :  
PT-UNRVOA-WSDL



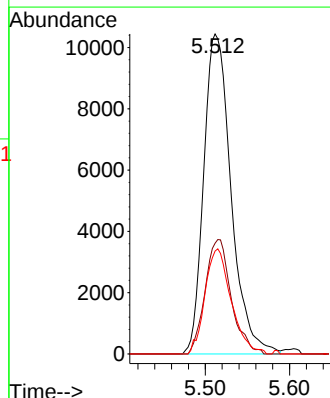
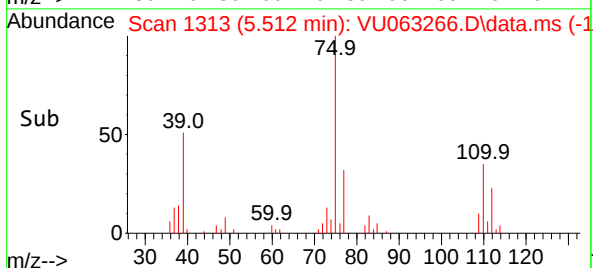
Tgt Ion:128 Resp: 25269  
Ion Ratio Lower Upper  
128 100  
49 172.5 0.0 343.4  
130 129.6 102.9 154.3

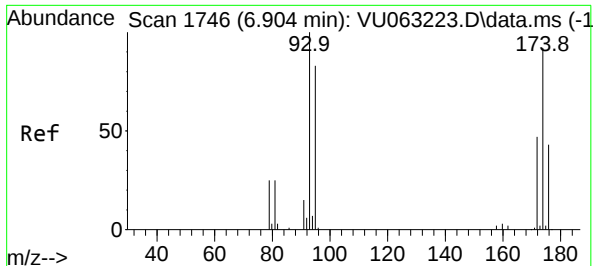


#29  
1,1-Dichloropropene  
Concen: 1.299 ug/l  
RT: 5.512 min Scan# 1313  
Delta R.T. -0.000 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37



Tgt Ion: 75 Resp: 23615  
Ion Ratio Lower Upper  
75 100  
110 34.0 17.2 51.5  
77 31.4 24.6 37.0

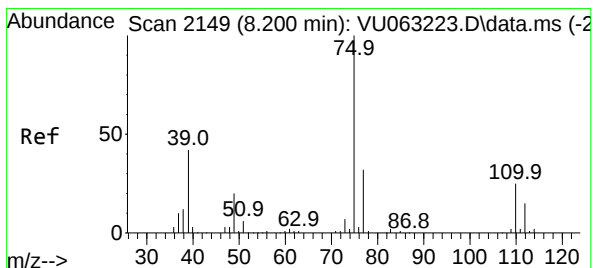
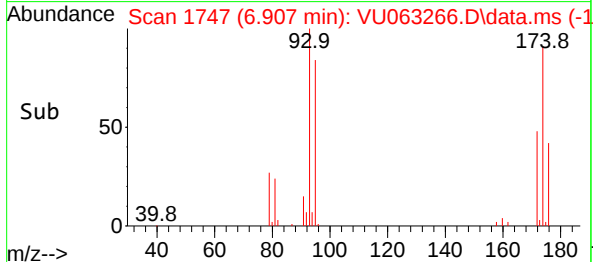
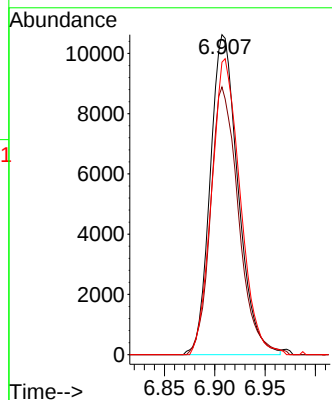
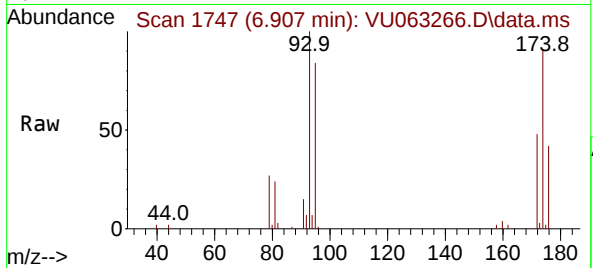




#43  
Dibromomethane  
Concen: 2.761 ug/l  
RT: 6.907 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

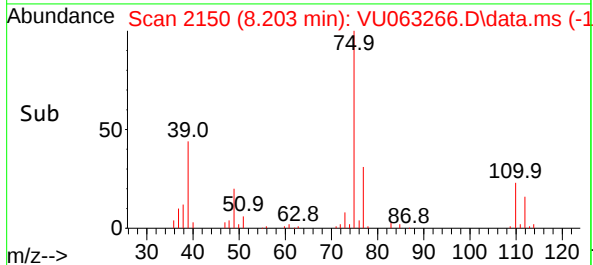
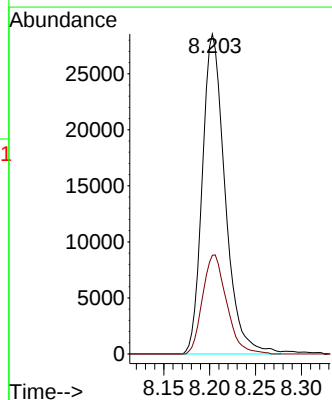
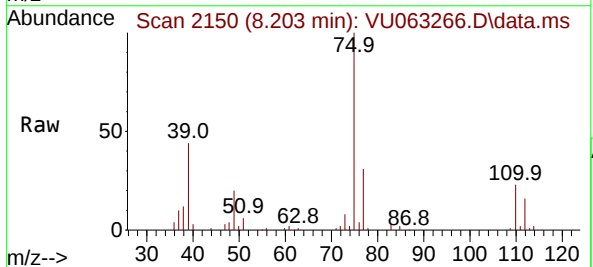
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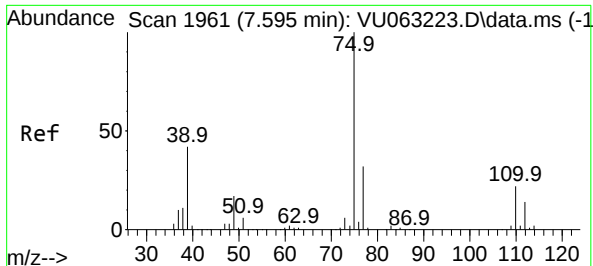
Tgt Ion: 93 Resp: 20459  
Ion Ratio Lower Upper  
93 100  
95 84.0 67.2 100.8  
174 94.7 75.7 113.5



#50  
t-1,3-Dichloropropene  
Concen: 3.131 ug/l  
RT: 8.203 min Scan# 2150  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Tgt Ion: 75 Resp: 49437  
Ion Ratio Lower Upper  
75 100  
77 30.9 25.9 38.9





#51

cis-1,3-Dichloropropene

Concen: 3.831 ug/l

RT: 7.598 min Scan# 1961

Delta R.T. 0.003 min

Lab File: VU063266.D

Acq: 13 Feb 2025 16:37

Instrument :

MSVOA\_U

ClientSampleId :

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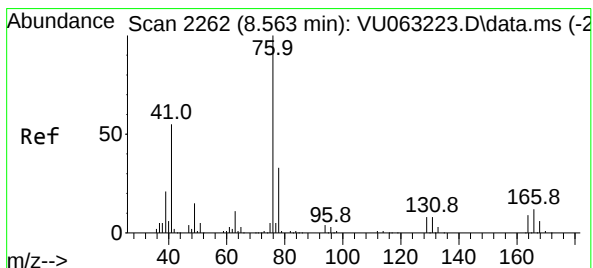
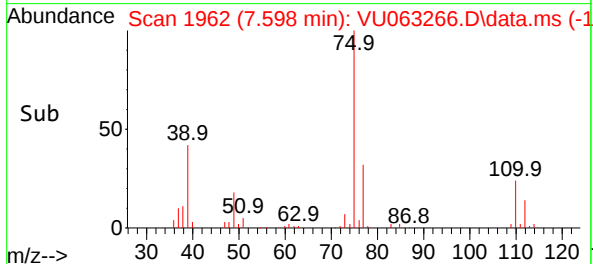
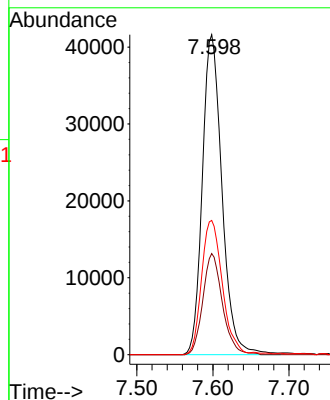
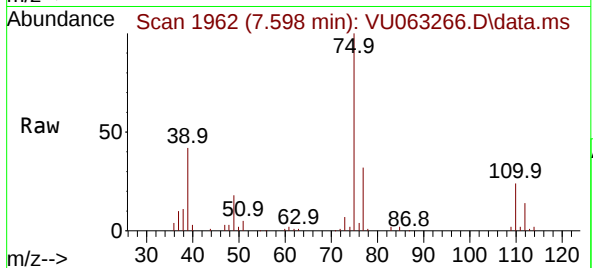
Tgt Ion: 75 Resp: 74724

Ion Ratio Lower Upper

75 100

77 31.6 25.3 37.9

39 42.0 33.5 50.3



#53

1,3-Dichloropropane

Concen: 2.931 ug/l

RT: 8.566 min Scan# 2263

Delta R.T. 0.003 min

Lab File: VU063266.D

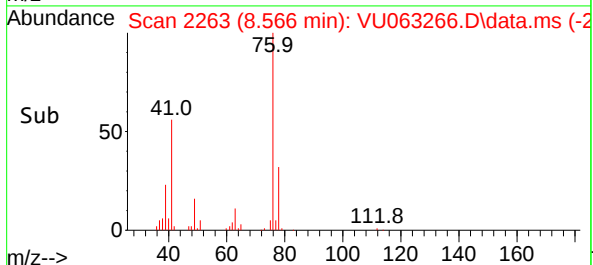
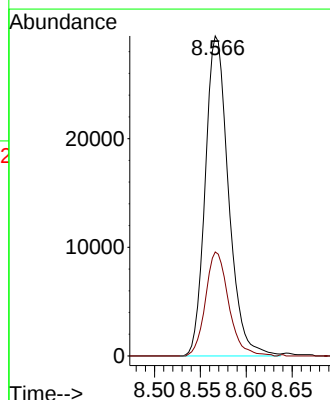
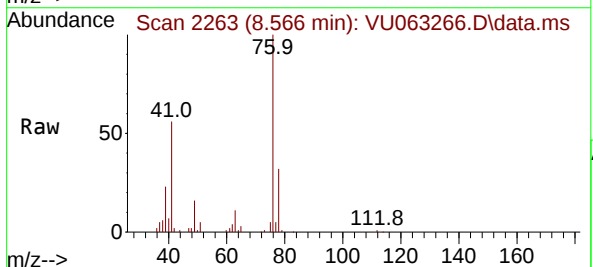
Acq: 13 Feb 2025 16:37

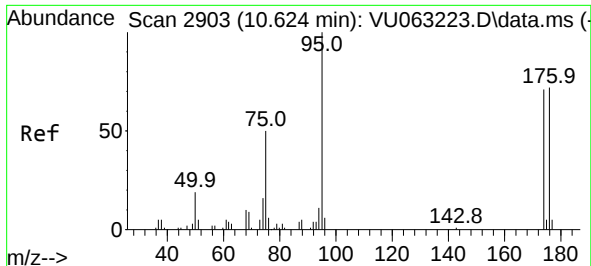
Tgt Ion: 76 Resp: 52000

Ion Ratio Lower Upper

76 100

78 32.3 26.3 39.5





#57

4-Bromofluorobenzene

Concen: 1.019 ug/l

RT: 10.630 min Scan# 2905

Delta R.T. 0.006 min

Lab File: VU063266.D

Acq: 13 Feb 2025 16:37

Instrument :

MSVOA\_U

ClientSampleId :

PT-UNRVOA-WSDL

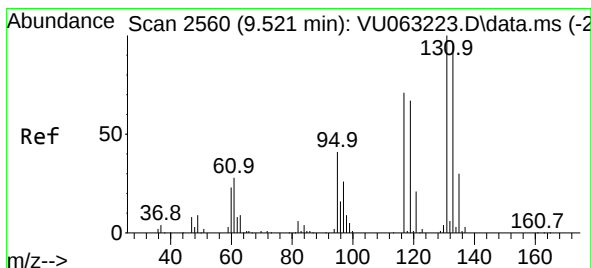
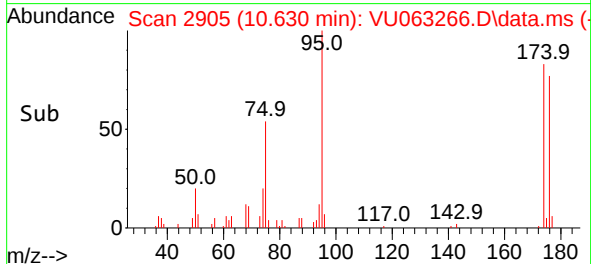
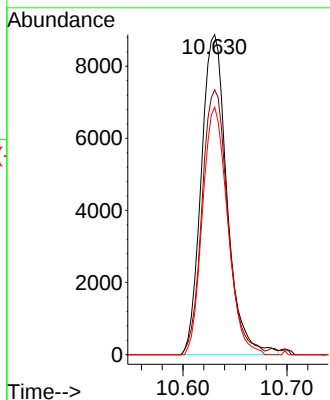
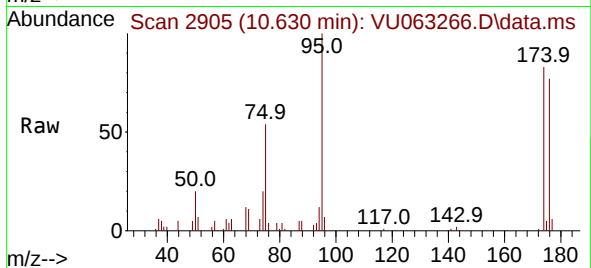
Tgt Ion: 95 Resp: 15292

Ion Ratio Lower Upper

95 100

174 83.1 58.6 88.0

176 75.6 58.2 87.4



#60

1,1,1,2-Tetrachloroethane

Concen: 0.766 ug/l

RT: 9.528 min Scan# 2562

Delta R.T. 0.006 min

Lab File: VU063266.D

Acq: 13 Feb 2025 16:37

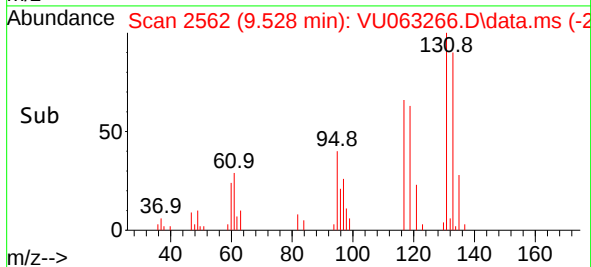
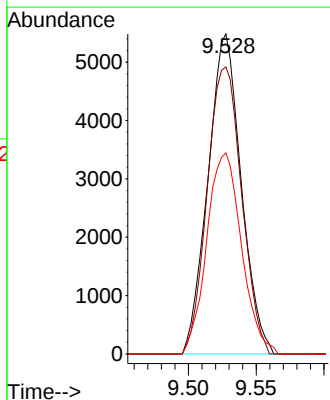
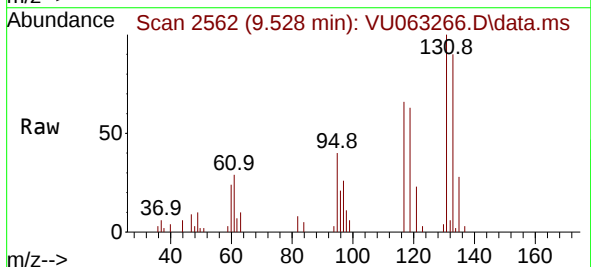
Tgt Ion: 131 Resp: 9339

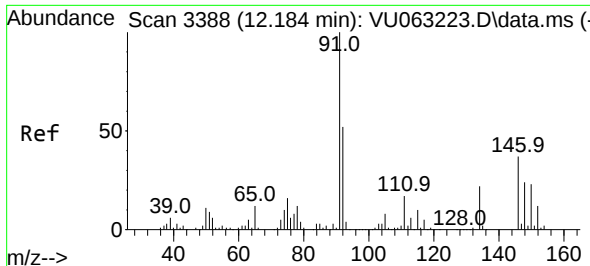
Ion Ratio Lower Upper

131 100

133 92.9 76.7 115.1

119 65.7 54.4 81.6

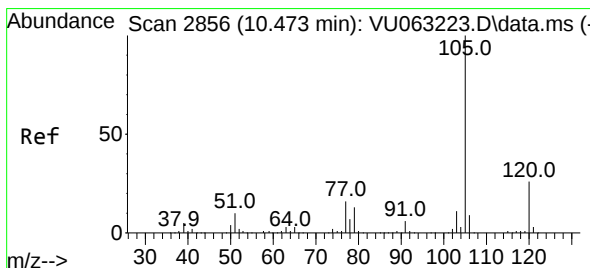
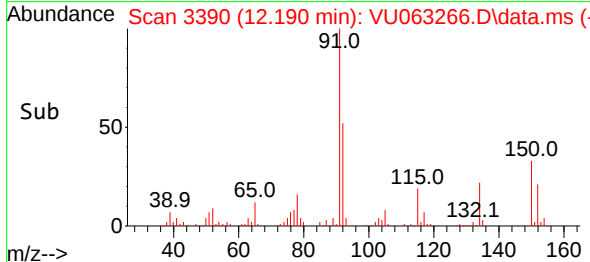
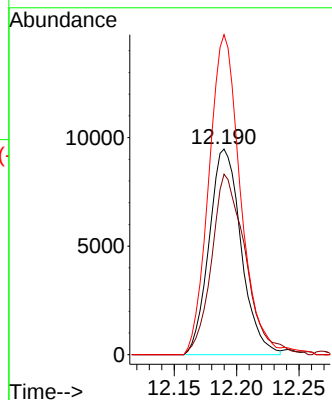
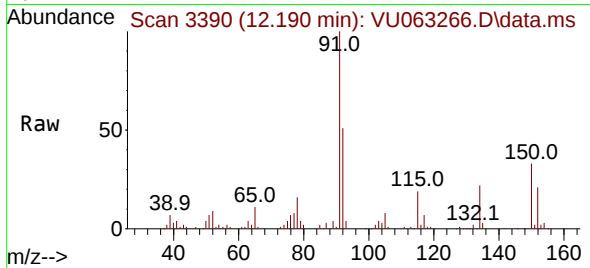




#68  
 1,2-Dichlorobenzene-d4  
 Concen: 1.085 ug/l  
 RT: 12.190 min Scan# 31  
 Delta R.T. 0.006 min  
 Lab File: VU063266.D  
 Acq: 13 Feb 2025 16:37

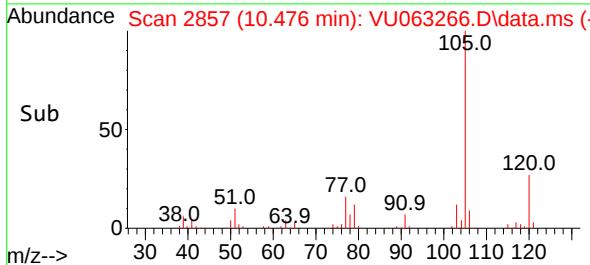
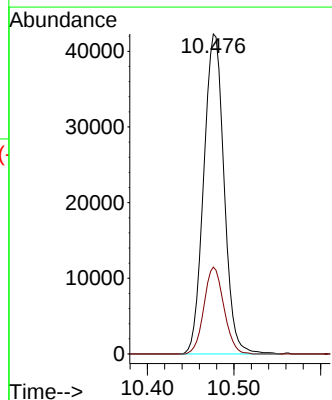
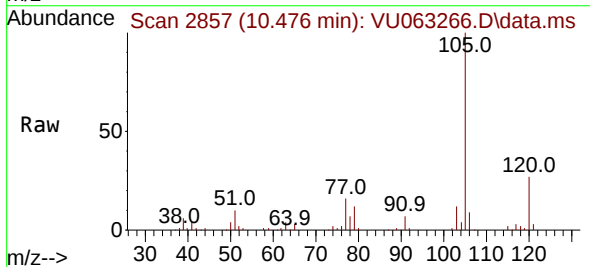
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 MSVOA\_U  
 ClientSampleId :  
 PT-UNRVOA-WSDL

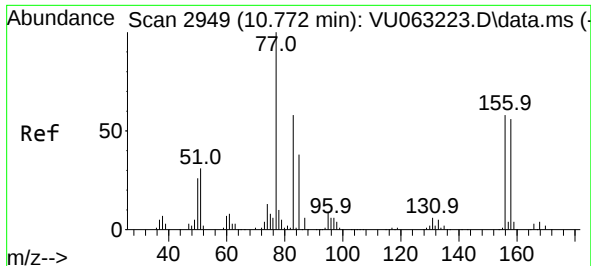
Tgt Ion:152 Resp: 16940  
 Ion Ratio Lower Upper  
 152 100  
 115 93.1 0.0 275.2  
 150 154.6 0.0 658.4



#69  
 Isopropylbenzene  
 Concen: 1.370 ug/l  
 RT: 10.476 min Scan# 2857  
 Delta R.T. 0.003 min  
 Lab File: VU063266.D  
 Acq: 13 Feb 2025 16:37

Tgt Ion:105 Resp: 68948  
 Ion Ratio Lower Upper  
 105 100  
 120 26.5 12.8 38.4

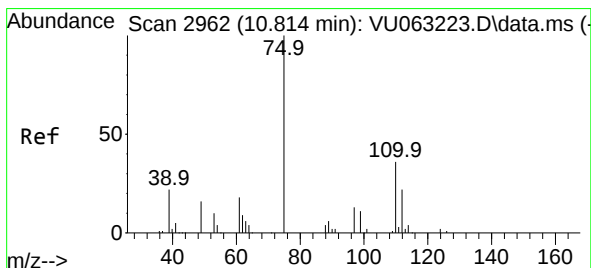
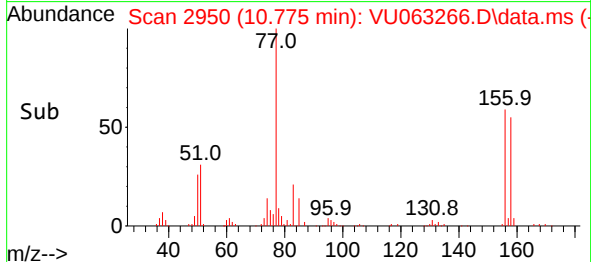
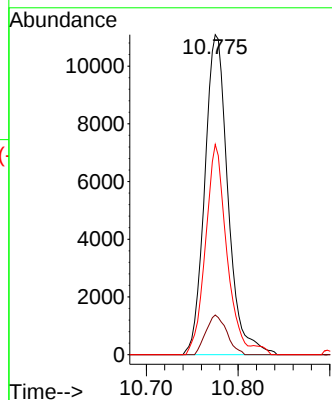
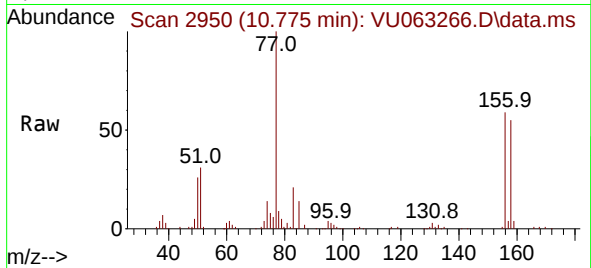




#70  
1,1,2,2-Tetrachloroethane  
Concen: 1.450 ug/l  
RT: 10.775 min Scan# 2949  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

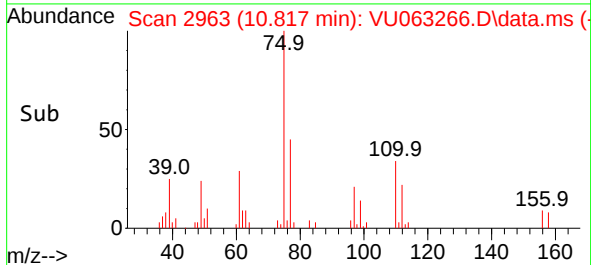
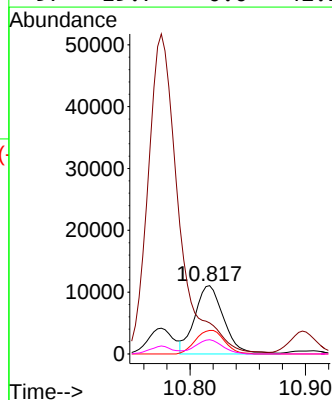
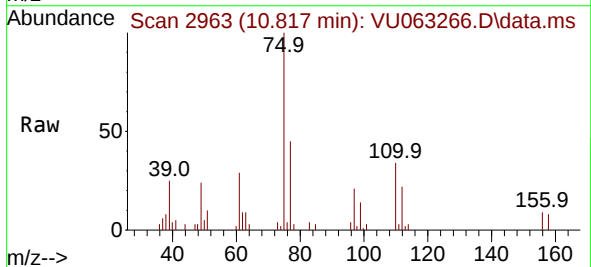
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-UNRVOA-WSDL

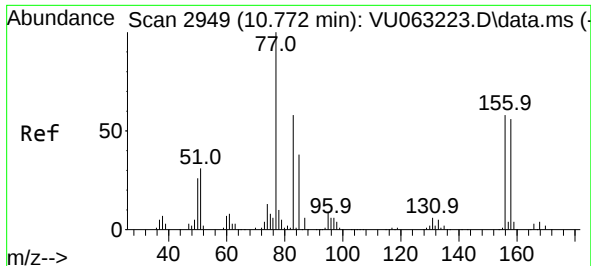
Tgt Ion: 83 Resp: 19521  
Ion Ratio Lower Upper  
83 100  
131 11.1 7.4 11.0#  
85 59.6 51.8 77.8



#71  
1,2,3-Trichloropropane  
Concen: 1.896 ug/l  
RT: 10.817 min Scan# 2963  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Tgt Ion: 75 Resp: 19186  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0  
110 34.5 0.0 77.0  
97 19.7 0.0 42.2

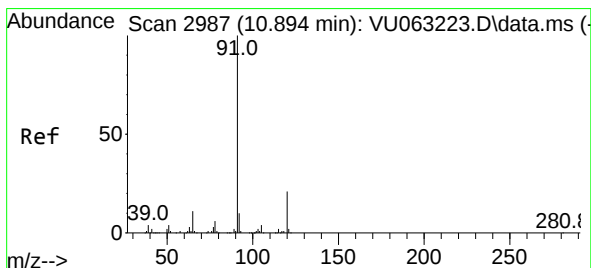
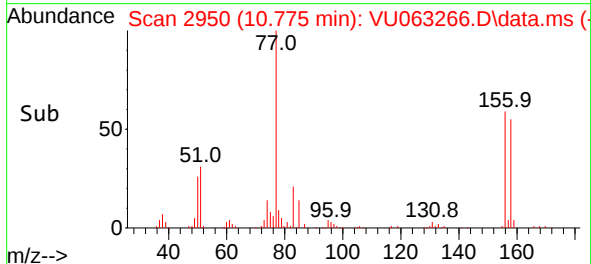
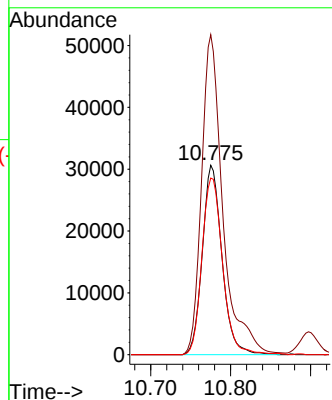
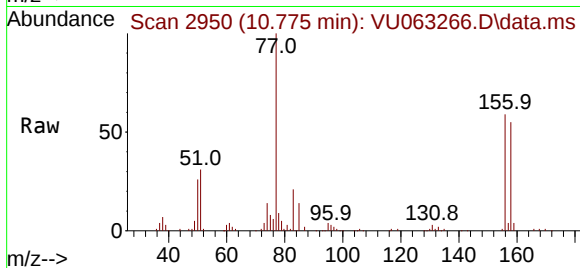




#72  
Bromobenzene  
Concen: 3.866 ug/l  
RT: 10.775 min Scan# 2949  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

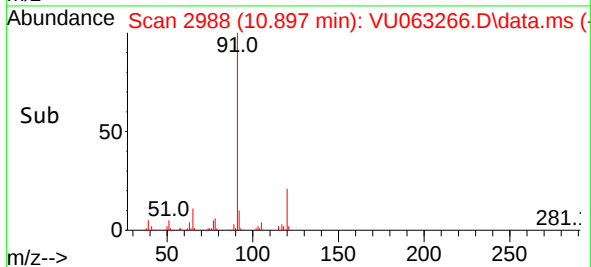
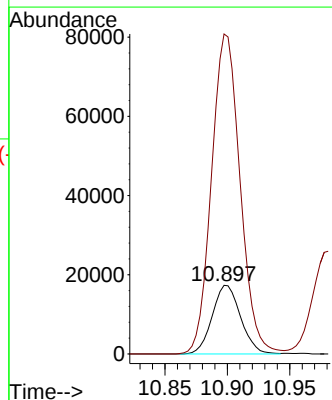
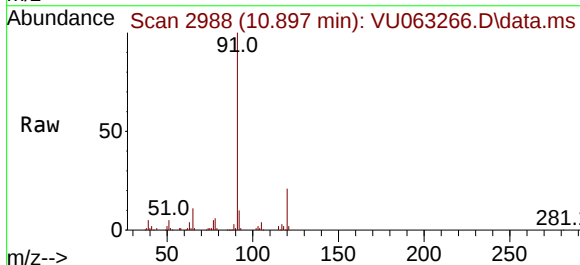
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ClientSampleId :  
PT-UNRVOA-WSDL

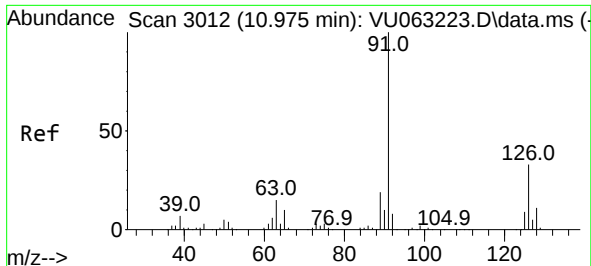
Tgt Ion:156 Resp: 52410  
Ion Ratio Lower Upper  
156 100  
77 183.0 0.0 343.6  
158 98.0 0.0 193.0



#73  
n-propylbenzene  
Concen: 1.908 ug/l  
RT: 10.897 min Scan# 2988  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Tgt Ion:120 Resp: 27477  
Ion Ratio Lower Upper  
120 100  
91 470.3 369.8 554.6

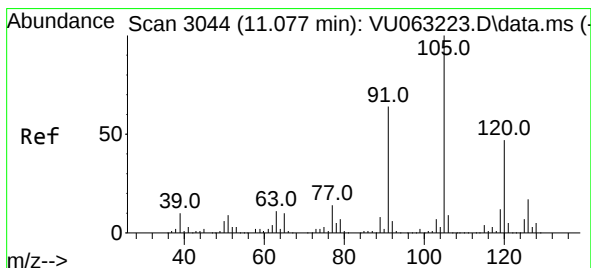
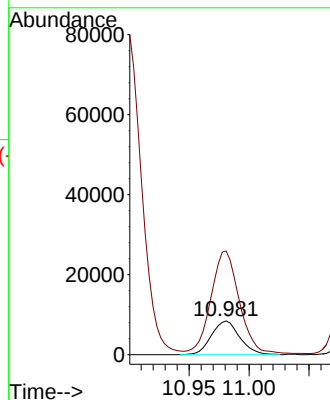
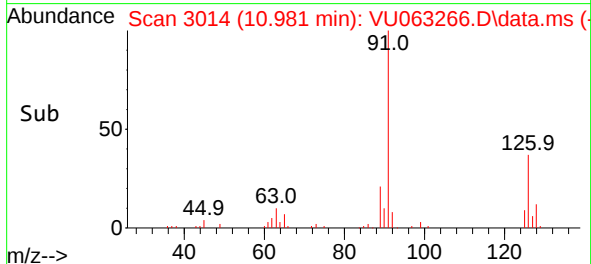
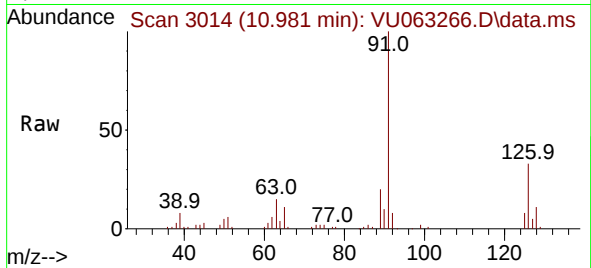




#74  
2-Chlorotoluene  
Concen: 1.038 ug/l  
RT: 10.981 min Scan# 3014  
Delta R.T. 0.006 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

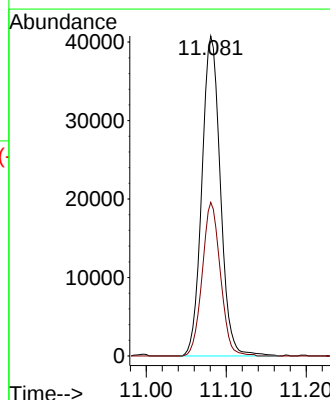
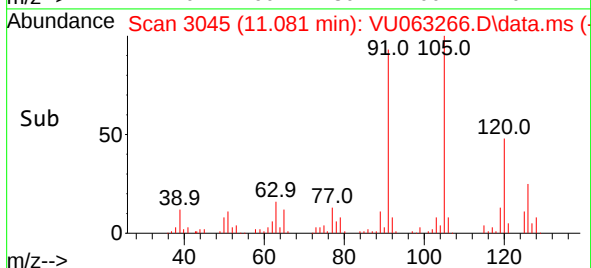
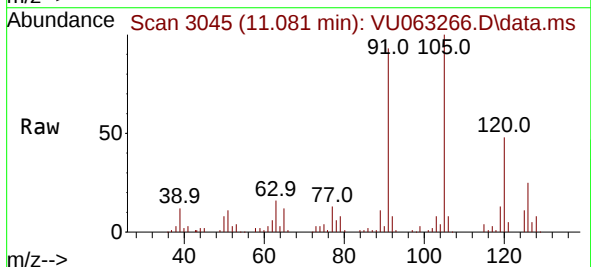
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MSVOA\_U  
ClientSampleId :  
PT-UNRVOA-WSDL

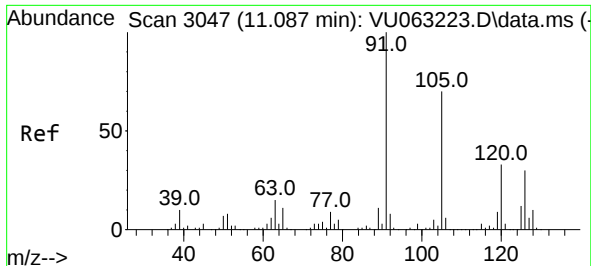
Tgt Ion:126 Resp: 13781  
Ion Ratio Lower Upper  
126 100  
91 311.5 0.0 623.8



#75  
1,3,5-Trimethylbenzene  
Concen: 1.411 ug/l  
RT: 11.081 min Scan# 3045  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Tgt Ion:105 Resp: 65754  
Ion Ratio Lower Upper  
105 100  
120 47.1 37.3 55.9

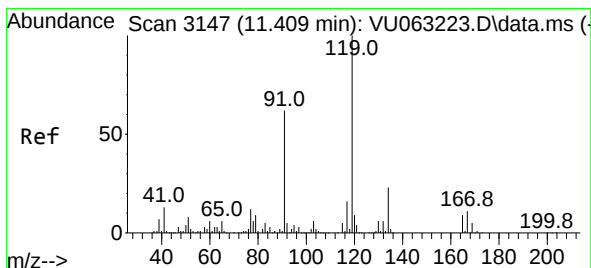
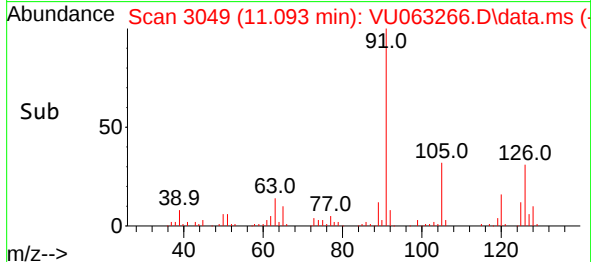
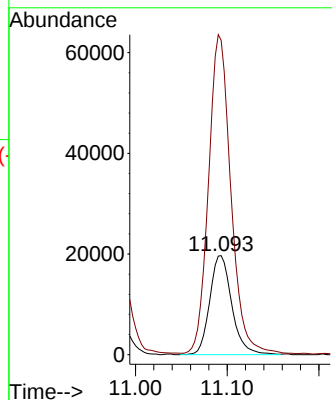
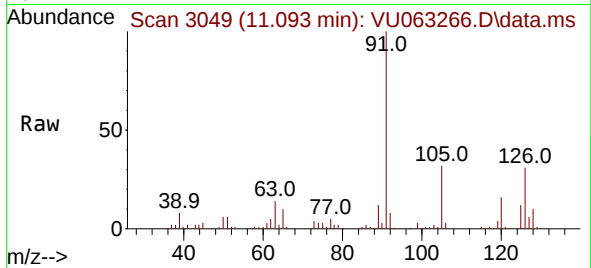




#76  
4-Chlorotoluene  
Concen: 2.420 ug/l  
RT: 11.093 min Scan# 3049  
Delta R.T. 0.006 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

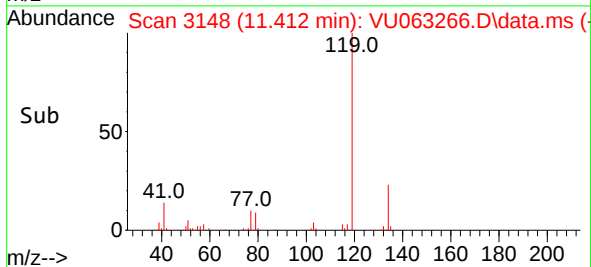
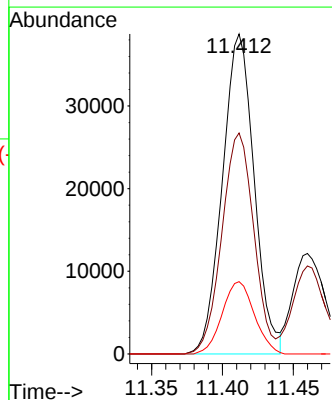
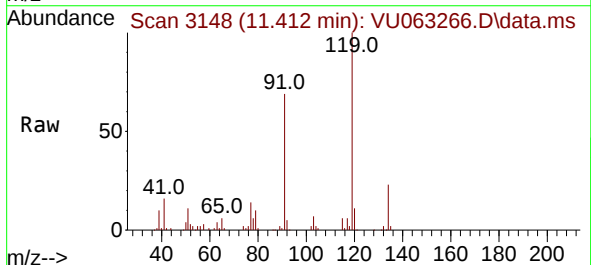
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PT-UNRVOA-WSDL

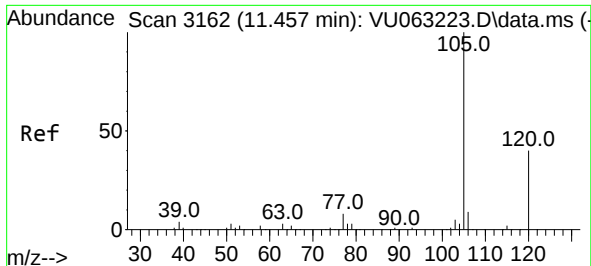
Tgt Ion:126 Resp: 32946  
Ion Ratio Lower Upper  
126 100  
91 326.0 0.0 703.6



#77  
tert-Butylbenzene  
Concen: 1.284 ug/l  
RT: 11.412 min Scan# 3148  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Tgt Ion:119 Resp: 60529  
Ion Ratio Lower Upper  
119 100  
91 69.3 29.4 88.3  
134 22.8 17.6 26.4





#78

1,2,4-Trimethylbenzene

Concen: 3.288 ug/l

RT: 11.460 min Scan# 3162

Delta R.T. 0.003 min

Lab File: VU063266.D

Acq: 13 Feb 2025 16:37

Instrument :

MSVOA\_U

ClientSampleId :

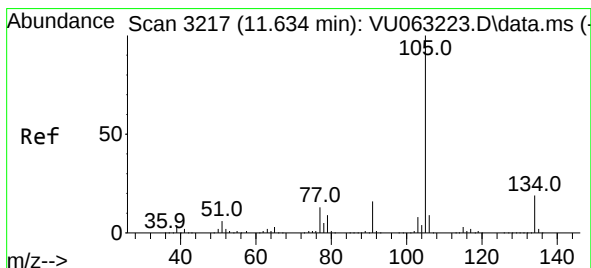
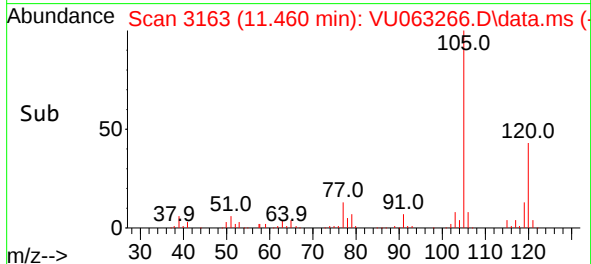
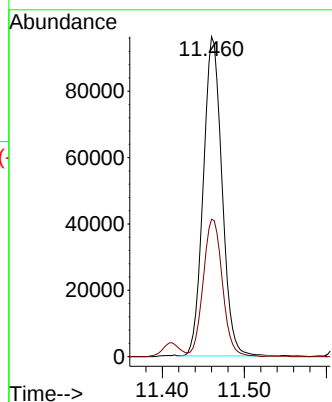
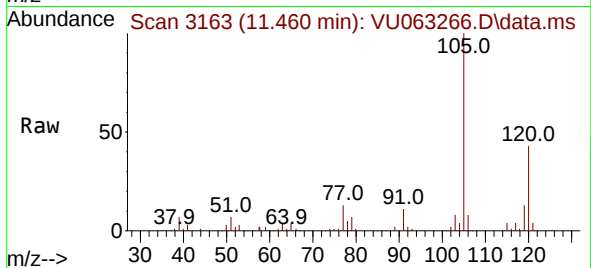
PT-UNRVOA-WSDL

Tgt Ion:105 Resp: 152063

Ion Ratio Lower Upper

105 100

120 44.3 21.9 65.7



#79

sec-Butylbenzene

Concen: 4.398 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. -0.000 min

Lab File: VU063266.D

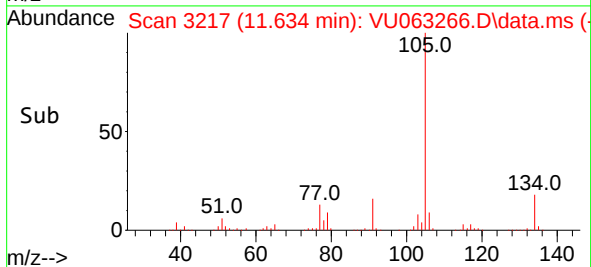
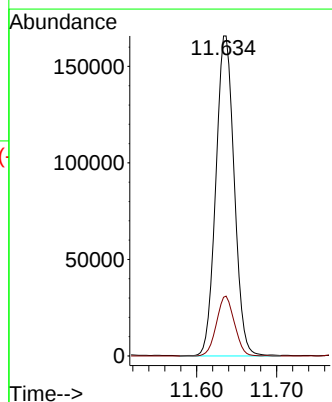
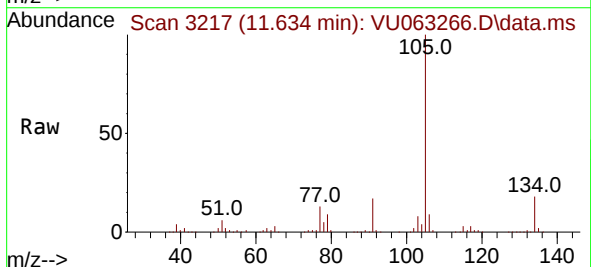
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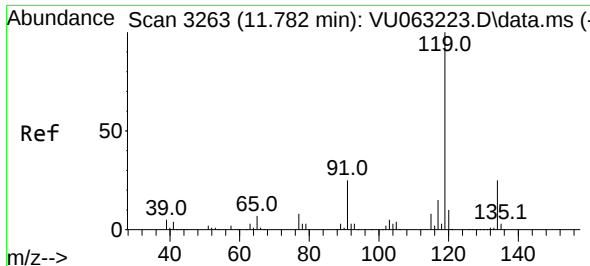
Tgt Ion:105 Resp: 263980

Ion Ratio Lower Upper

105 100

134 18.2 15.1 22.7

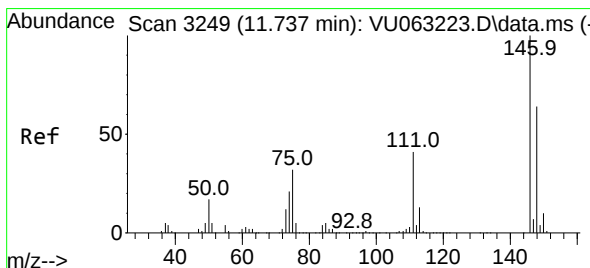
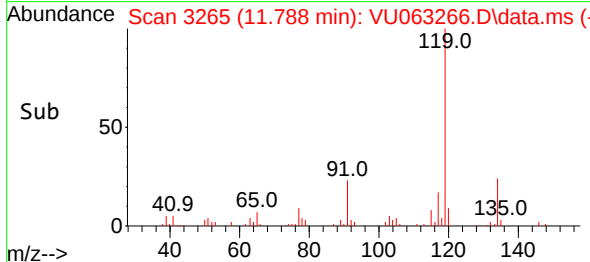
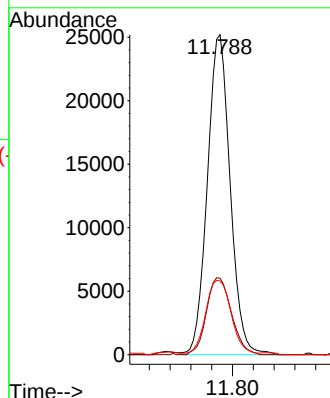
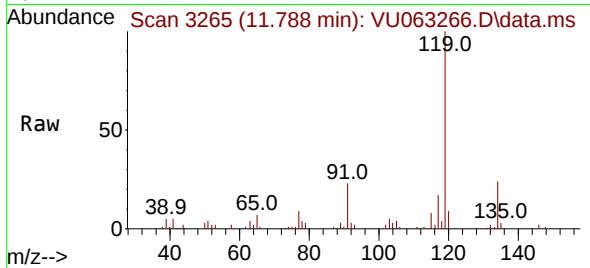




#81  
p-Isopropyltoluene  
Concen: 0.808 ug/l  
RT: 11.788 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

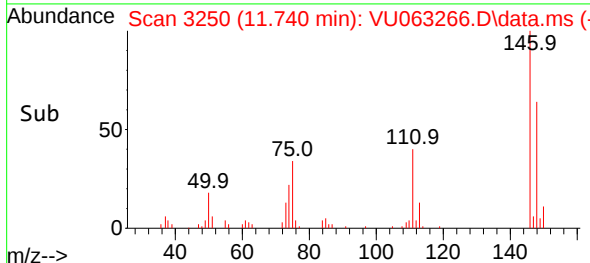
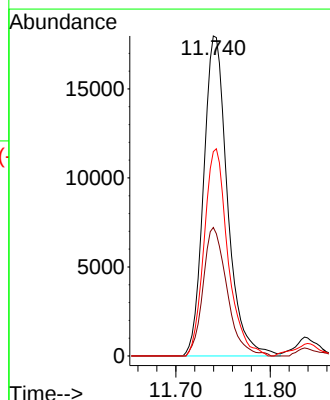
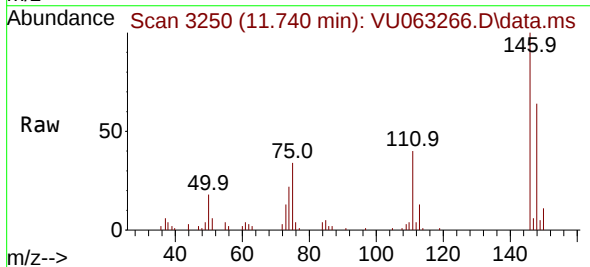
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ClientSampleId :  
PT-UNRVOA-WSDL

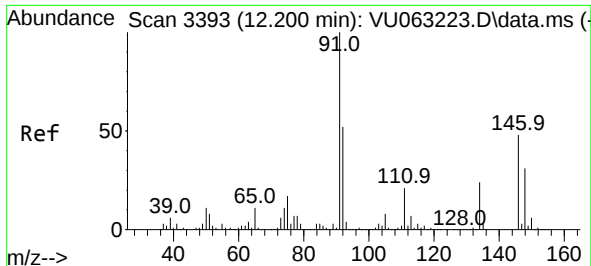
Tgt Ion:119 Resp: 38267  
Ion Ratio Lower Upper  
119 100  
134 26.3 20.3 30.5  
91 24.8 19.4 29.2



#82  
1,3-Dichlorobenzene  
Concen: 1.197 ug/l  
RT: 11.740 min Scan# 3250  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Tgt Ion:146 Resp: 31484  
Ion Ratio Lower Upper  
146 100  
111 40.4 32.8 49.2  
148 64.6 51.1 76.7

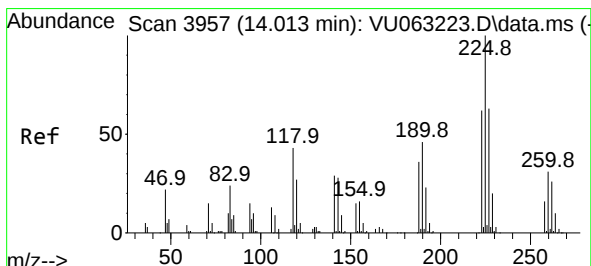
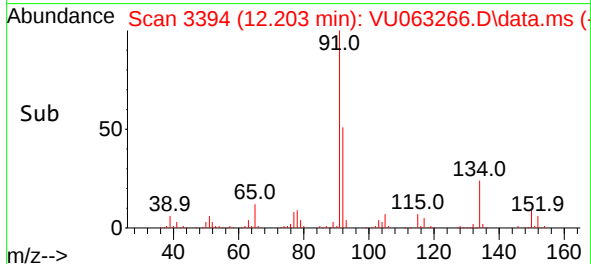
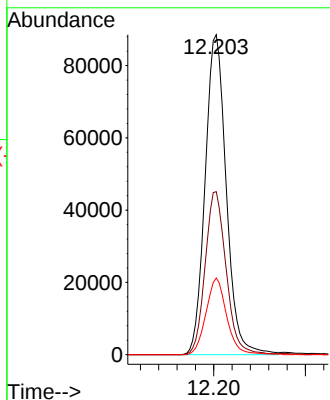
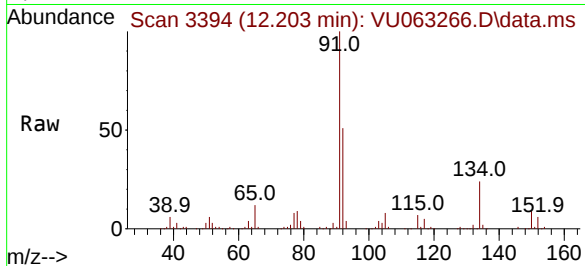




#84  
n-Butylbenzene  
Concen: 3.342 ug/l  
RT: 12.203 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

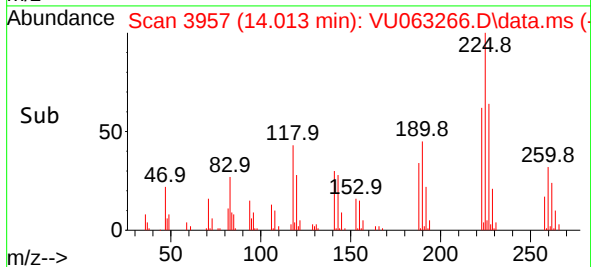
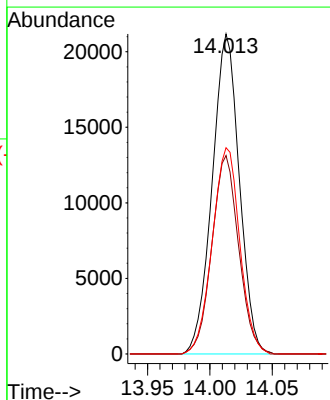
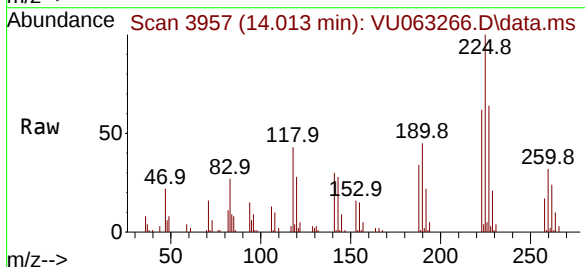
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-UNRVOA-WSDL

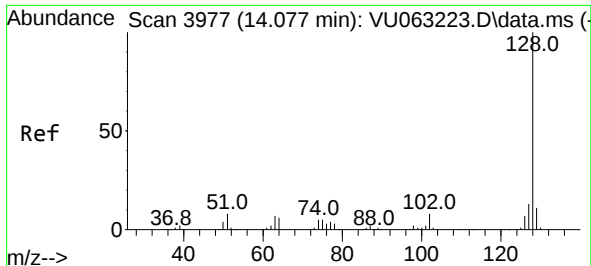
Tgt Ion: 91 Resp: 141973  
Ion Ratio Lower Upper  
91 100  
92 50.6 41.8 62.8  
134 23.5 18.6 28.0



#88  
Hexachlorobutadiene  
Concen: 3.644 ug/l  
RT: 14.013 min Scan# 3957  
Delta R.T. -0.000 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Tgt Ion: 225 Resp: 32095  
Ion Ratio Lower Upper  
225 100  
223 61.4 49.5 74.3  
227 65.4 51.0 76.4

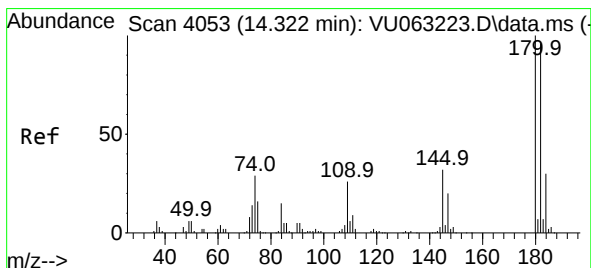
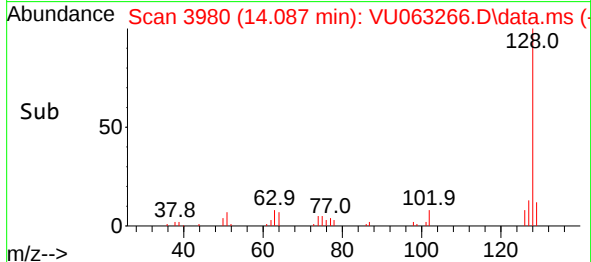
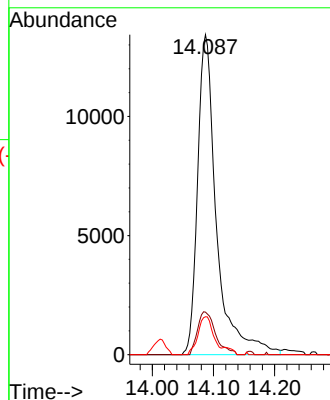
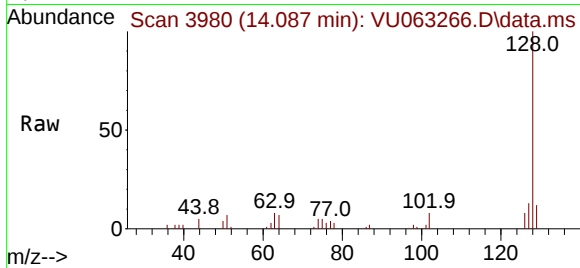




#89  
Naphthalene  
Concen: 1.705 ug/l  
RT: 14.087 min Scan# 3977  
Delta R.T. 0.010 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-UNRVOA-WSDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 28867 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 12.8  | 10.6  | 16.0  |
| 129       | 9.6   | 8.6   | 13.0  |



#90  
1,2,3-Trichlorobenzene  
Concen: 5.349 ug/l  
RT: 14.325 min Scan# 4054  
Delta R.T. 0.003 min  
Lab File: VU063266.D  
Acq: 13 Feb 2025 16:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 64499 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.8  | 78.2  | 117.2 |
| 145       | 32.1  | 26.1  | 39.1  |

