

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020624\  
 Data File : VU057816.D  
 Acq On : 06 Feb 2024 11:54  
 Operator : MD/SY  
 Sample : P1174-10  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PT-ADD-WS

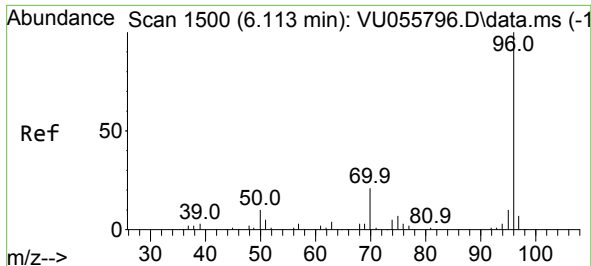
Quant Time: Feb 07 02:59:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U020524DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 06 02:05:40 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.107  | 96   | 43071    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.631 | 95   | 14242    | 0.901  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 90.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.193 | 152  | 12291    | 0.879  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 88.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        | Qvalue  |          |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.563  | 101  | 485453   | 45.920 | ug/l    | 98       |
| 12) Acrylonitrile            | 3.354  | 53   | 14709    | 6.723  | ug/l #  | 29       |
| 13) Acetone                  | 2.637  | 43   | 1288     | 0.301  | ug/l    | 89       |
| 15) Methylene Chloride       | 3.033  | 84   | 8996     | 0.676  | ug/l    | 98       |
| 18) 2-Butanone               | 4.499  | 43   | 157640   | 36.690 | ug/l #  | 1        |
| 24) tert-Butyl Alcohol       | 3.239  | 59   | 8534     | 14.704 | ug/l #  | 1        |
| 25) Methyl tert-Butyl Ether  | 3.354  | 73   | 1439230  | 54.516 | ug/l    | 96       |
| 31) Isopropyl Ether          | 3.988  | 45   | 1062632  | 30.617 | ug/l    | 93       |
| 32) Ethyl-t-butyl ether      | 4.499  | 59   | 1418248  | 41.547 | ug/l    | 97       |
| 33) Tert-Amyl methyl ether   | 5.940  | 73   | 1065152  | 37.272 | ug/l    | 98       |
| 41) Tetrahydrofuran          | 5.062  | 42   | 761      | 0.437  | ug/l #  | 48       |
| 46) t-1,4-Dichloro-2-butene  | 10.901 | 75   | 18299    | 10.457 | ug/l #  | 1        |
| 71) 1,2,3-Trichloropropane   | 10.901 | 75   | 18299    | 2.141  | ug/l #  | 1        |
| 73) n-propylbenzene          | 10.901 | 120  | 592645   | 40.902 | ug/l    | 98       |
| 75) 1,3,5-Trimethylbenzene   | 10.901 | 105  | 98723    | 2.103  | ug/l #  | 1        |
| 80) Nitrobenzene             | 13.213 | 77   | 116      | 2.411  | ug/l #  | 40       |
| -----                        |        |      |          |        |         |          |

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

Quant Time: Feb 07 02:59:55 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U020524DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Tue Feb 06 02:05:40 2024  
Response via : Initial Calibration

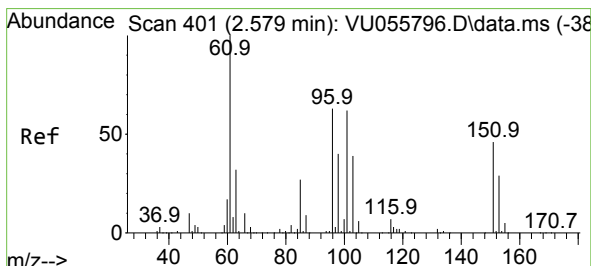
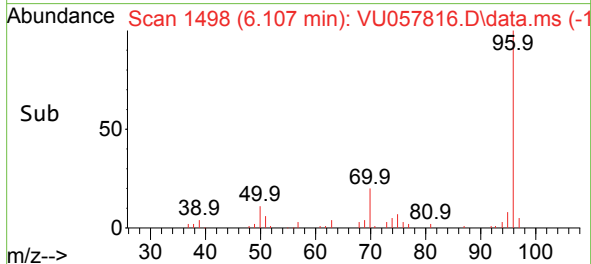
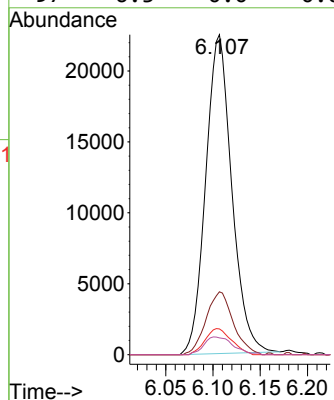
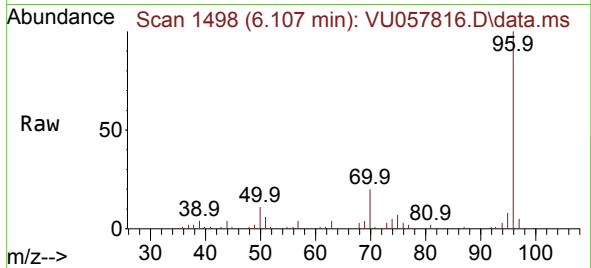




#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.107 min Scan# 14  
Delta R.T. 0.004 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

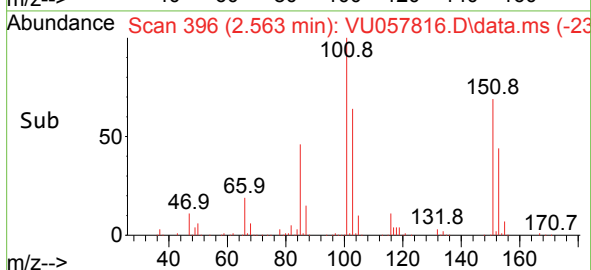
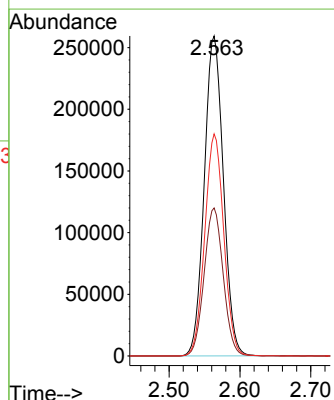
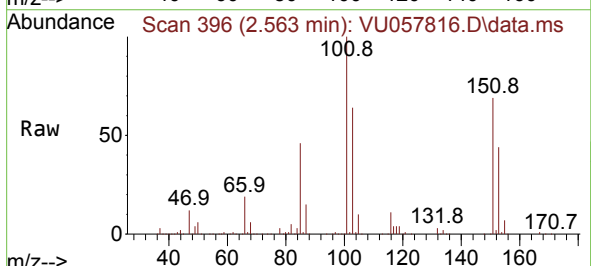
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MSVOA\_U  
ClientSampleId :  
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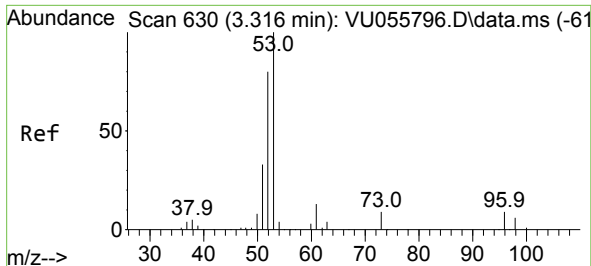
Tgt Ion: 96 Resp: 43071  
Ion Ratio Lower Upper  
96 100  
70 20.6 16.5 24.7  
95 8.3 7.4 11.0  
97 6.3 0.0 0.0#



#8  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 45.920 ug/l  
RT: 2.563 min Scan# 396  
Delta R.T. 0.003 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

Tgt Ion: 101 Resp: 485453  
Ion Ratio Lower Upper  
101 100  
85 46.3 35.4 53.0  
151 69.1 54.0 81.0

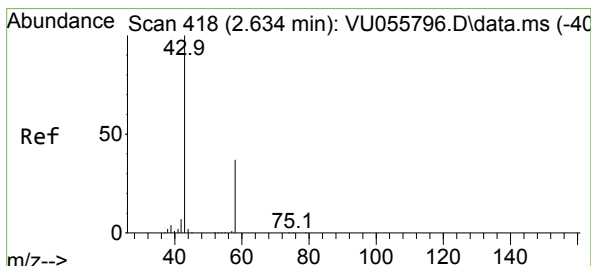
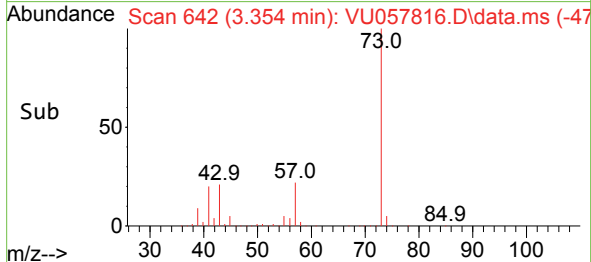
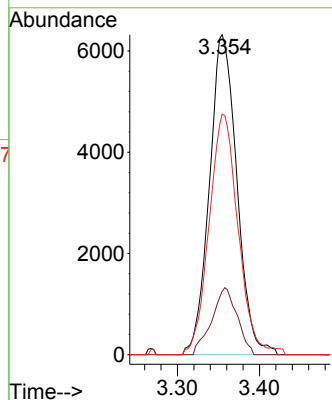
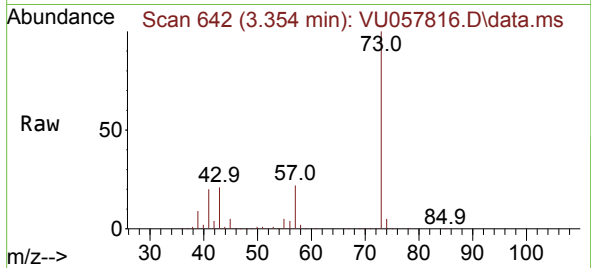




#12  
Acrylonitrile  
Concen: 6.723 ug/l  
RT: 3.354 min Scan# 642  
Delta R.T. 0.045 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

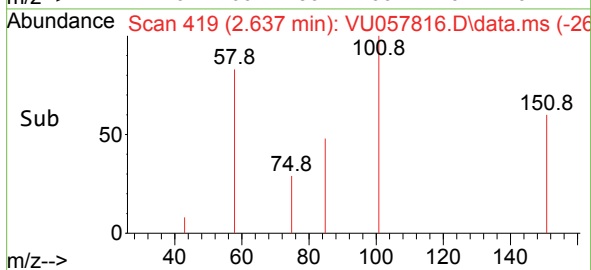
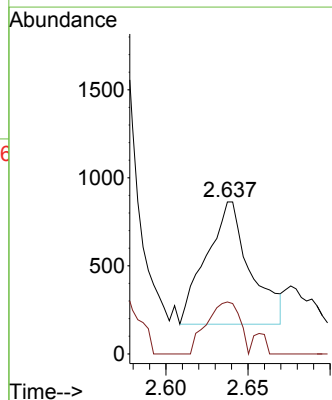
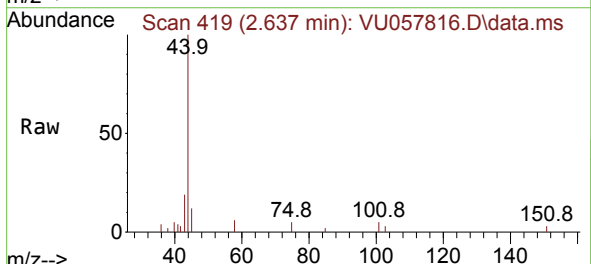
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MSVOA\_U  
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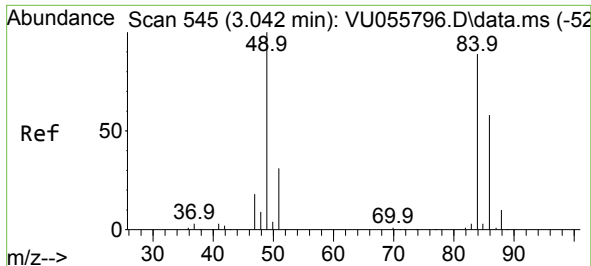
Tgt Ion: 53 Resp: 14709  
Ion Ratio Lower Upper  
53 100  
52 19.3 62.9 94.3#  
51 79.3 27.8 41.6#



#13  
Acetone  
Concen: 0.301 ug/l  
RT: 2.637 min Scan# 419  
Delta R.T. 0.007 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

Tgt Ion: 43 Resp: 1288  
Ion Ratio Lower Upper  
43 100  
58 42.5 29.0 43.4

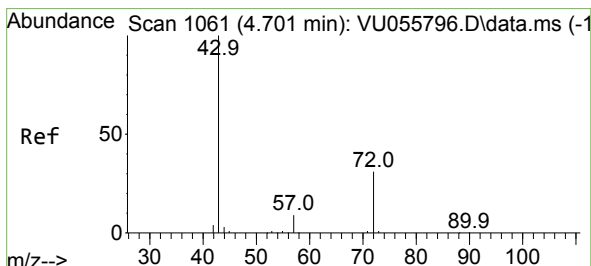
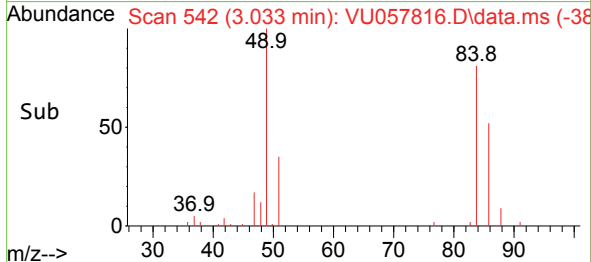
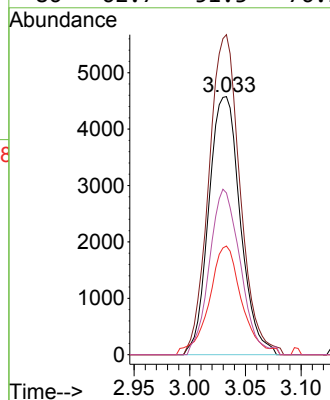
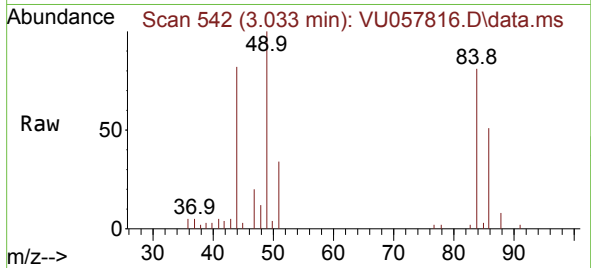




#15  
Methylene Chloride  
Concen: 0.676 ug/l  
RT: 3.033 min Scan# 54  
Delta R.T. 0.007 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

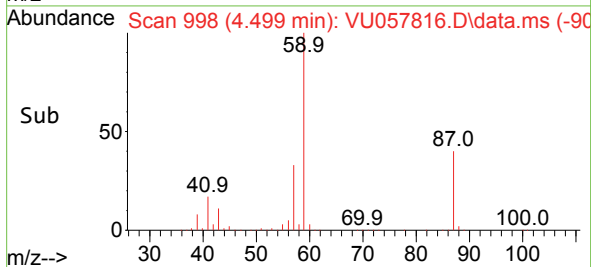
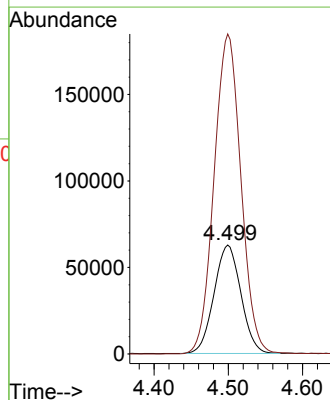
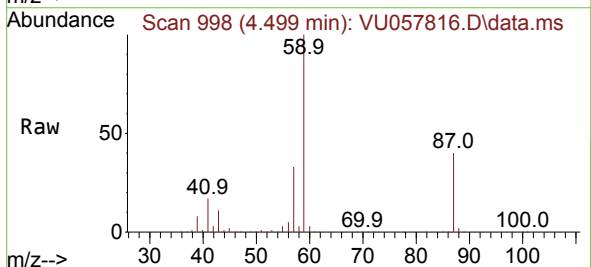
Instrument :  
MSVOA\_U  
ClientSampleId :  
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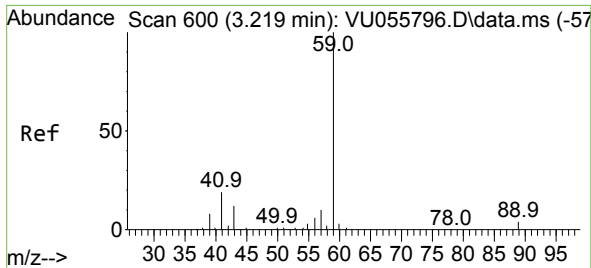
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 8996  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 124.0 | 98.9  | 148.3 |
| 51       | 42.1  | 0.0   | 75.4  |
| 86       | 62.7  | 51.3  | 76.9  |



#18  
2-Butanone  
Concen: 36.690 ug/l  
RT: 4.499 min Scan# 998  
Delta R.T. -0.212 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 157640 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 57       | 294.7 | 0.0   | 19.6#  |

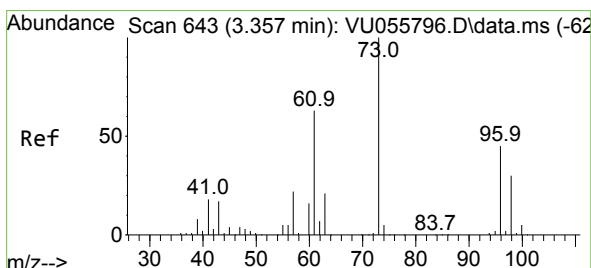
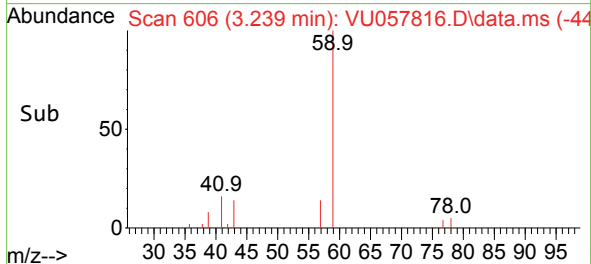
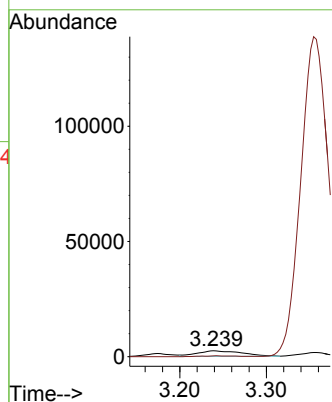
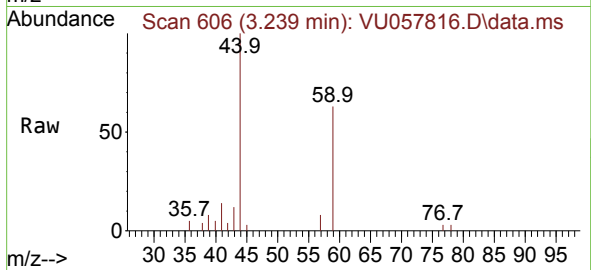




#24  
tert-Butyl Alcohol  
Concen: 14.704 ug/l  
RT: 3.239 min Scan# 60  
Delta R.T. 0.007 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

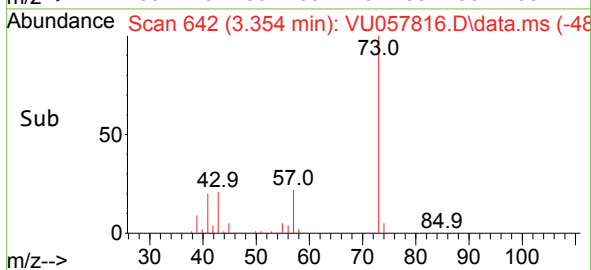
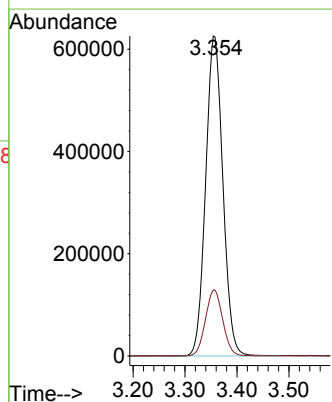
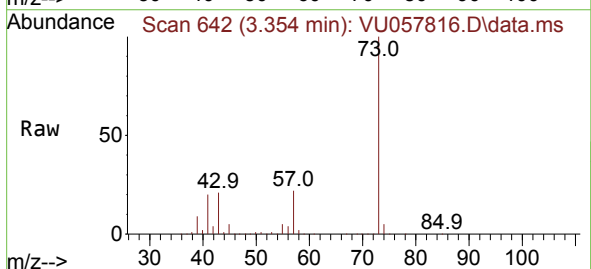
Instrument :  
MSVOA\_U  
ClientSampleId :  
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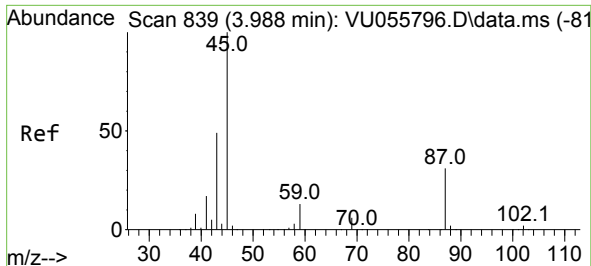
Tgt Ion: 59 Resp: 8534  
Ion Ratio Lower Upper  
59 100  
57 0.0 105.6 158.4#



#25  
Methyl tert-Butyl Ether  
Concen: 54.516 ug/l  
RT: 3.354 min Scan# 642  
Delta R.T. -0.003 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

Tgt Ion: 73 Resp: 1439230  
Ion Ratio Lower Upper  
73 100  
43 20.6 15.0 22.6

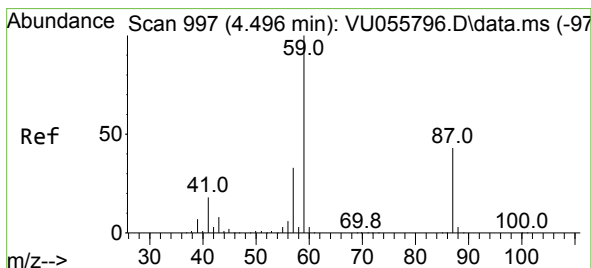
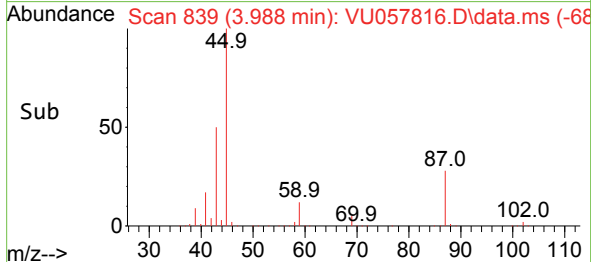
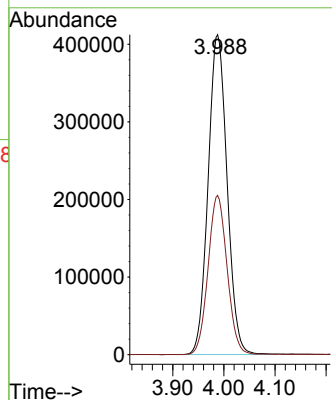
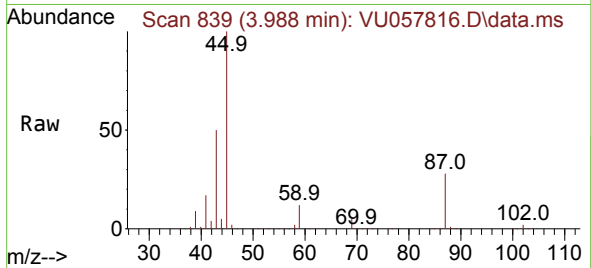




#31  
Isopropyl Ether  
Concen: 30.617 ug/l  
RT: 3.988 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

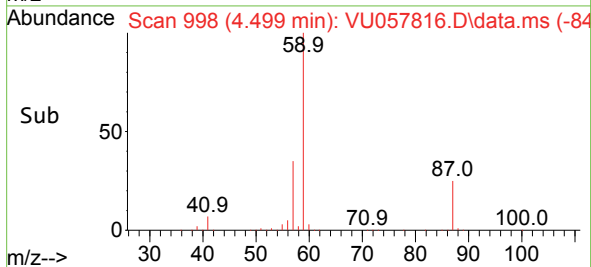
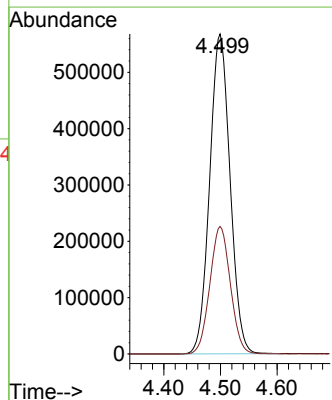
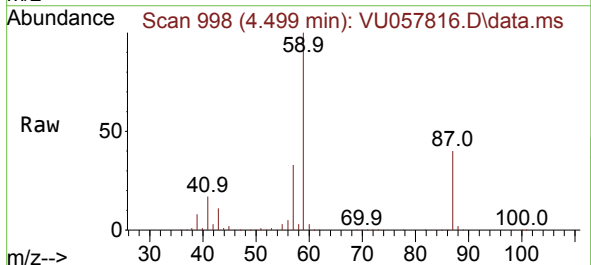
Instrument :  
MSVOA\_U  
ClientSampleId :  
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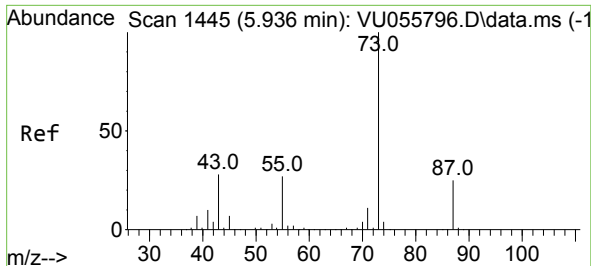
Tgt Ion: 45 Resp: 1062632  
Ion Ratio Lower Upper  
45 100  
43 50.0 27.5 82.5



#32  
Ethyl-t-butyl ether  
Concen: 41.547 ug/l  
RT: 4.499 min Scan# 998  
Delta R.T. 0.000 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

Tgt Ion: 59 Resp: 1418248  
Ion Ratio Lower Upper  
59 100  
87 40.1 33.5 50.3



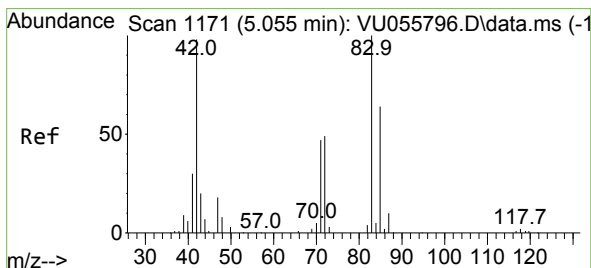
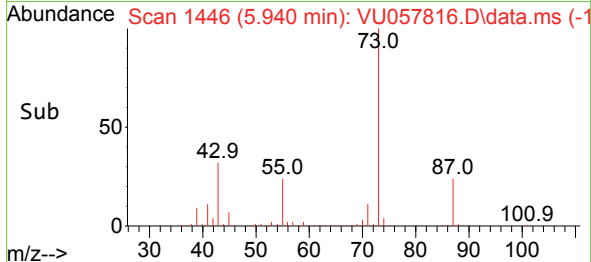
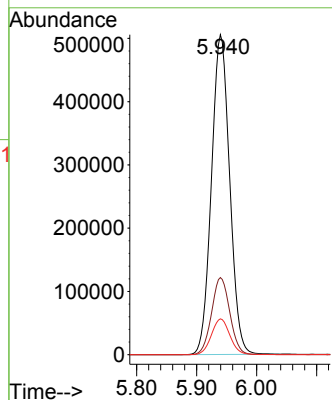
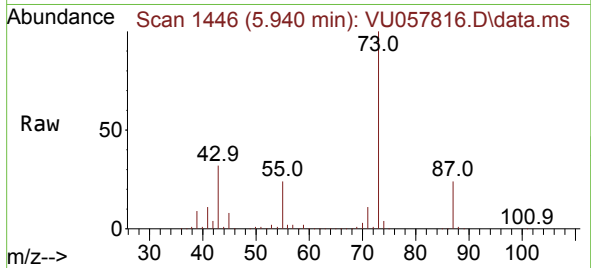


#33  
Tert-Amyl methyl ether  
Concen: 37.272 ug/l  
RT: 5.940 min Scan# 1445  
Delta R.T. 0.000 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Tgt Ion: 73 Resp: 1065152

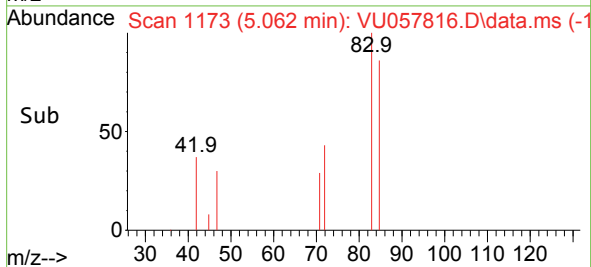
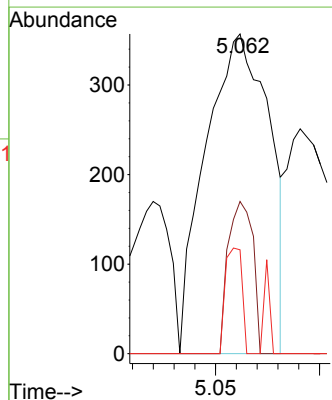
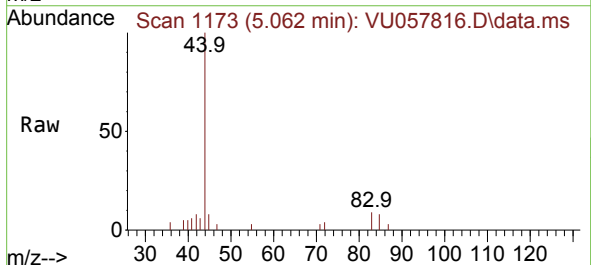
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 87  | 24.0  | 18.6  | 28.0  |
| 71  | 11.3  | 9.9   | 14.9  |



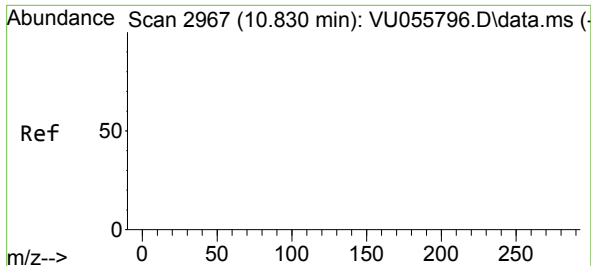
#41  
Tetrahydrofuran  
Concen: 0.437 ug/l  
RT: 5.062 min Scan# 1173  
Delta R.T. 0.000 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

Tgt Ion: 42 Resp: 761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 18.4  | 40.9  | 61.3# |
| 71  | 8.7   | 36.9  | 55.3# |



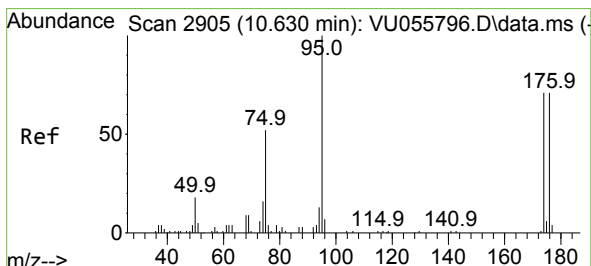
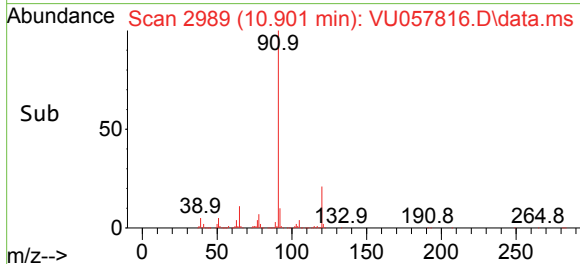
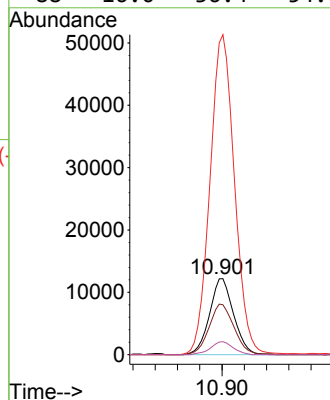
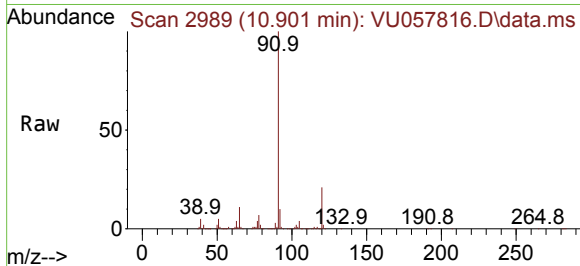




#46  
t-1,4-Dichloro-2-butene  
Concen: 10.457 ug/l  
RT: 10.901 min Scan# 2989  
Delta R.T. 0.065 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

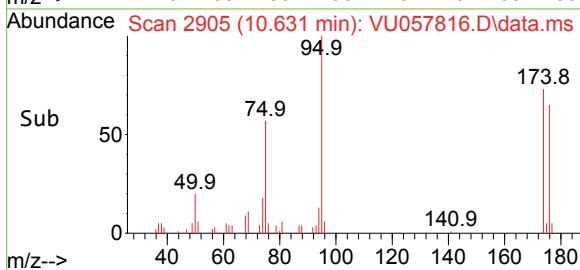
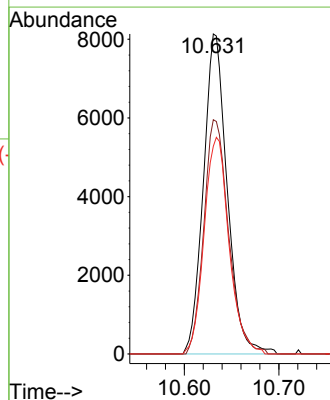
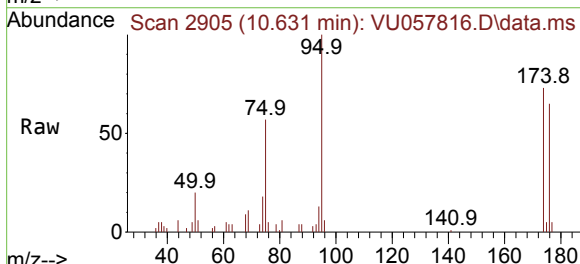
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-ADD-WS

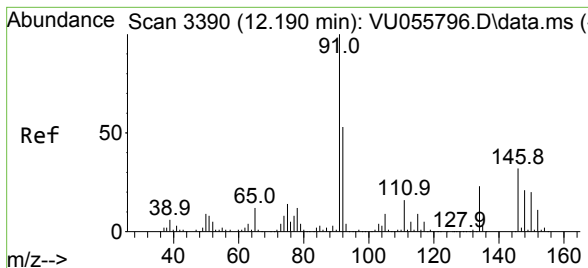
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 18299  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 68.9  | 73.3  | 109.9# |
| 89       | 429.4 | 48.2  | 72.4#  |
| 88       | 16.0  | 36.4  | 54.6#  |



#57  
4-Bromofluorobenzene  
Concen: 0.901 ug/l  
RT: 10.631 min Scan# 2905  
Delta R.T. 0.000 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 14242 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 75.9  | 63.3  | 94.9  |
| 176      | 70.7  | 59.3  | 88.9  |





#68

1,2-Dichlorobenzene-d4

Concen: 0.879 ug/l

RT: 12.193 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU057816.D

Acq: 06 Feb 2024 11:54

Instrument :

MSVOA\_U

ClientSampleId :

PT-ADD-WS

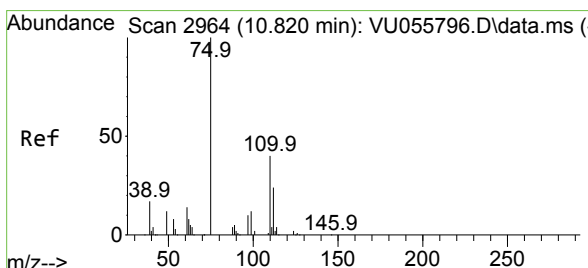
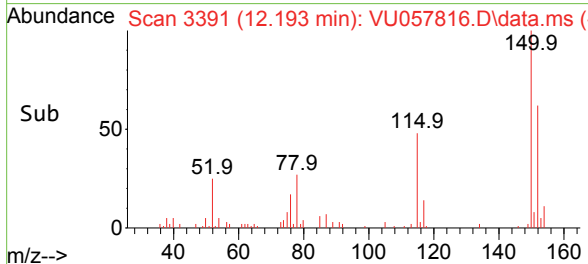
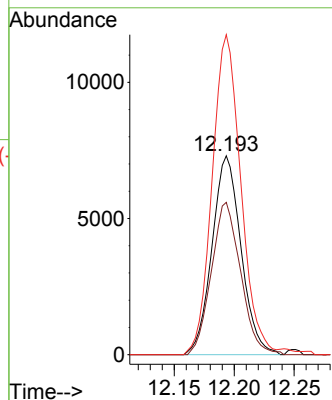
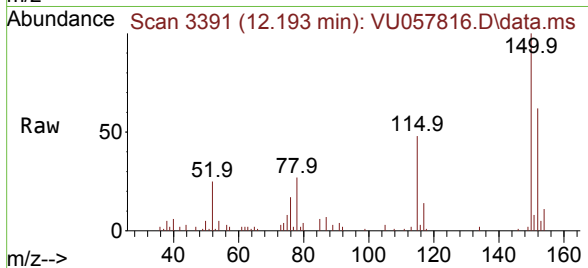
Tgt Ion:152 Resp: 12291

Ion Ratio Lower Upper

152 100

115 77.0 0.0 308.8

150 158.5 0.0 635.0



#71

1,2,3-Trichloropropane

Concen: 2.141 ug/l

RT: 10.901 min Scan# 2989

Delta R.T. 0.068 min

Lab File: VU057816.D

Acq: 06 Feb 2024 11:54

Tgt Ion: 75 Resp: 18299

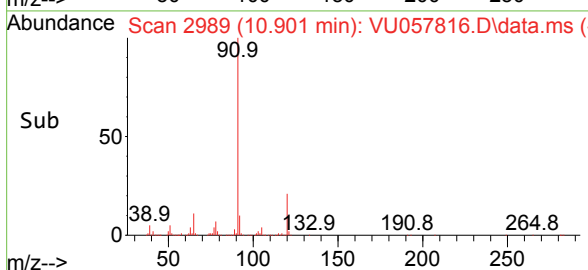
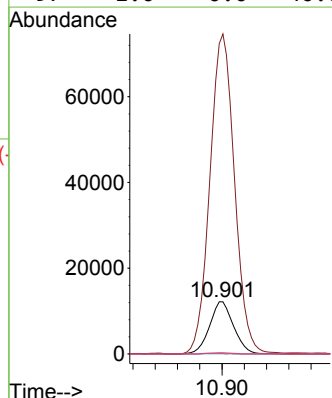
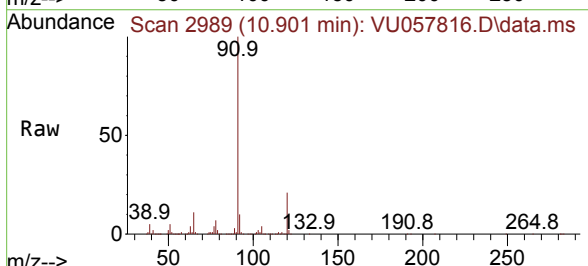
Ion Ratio Lower Upper

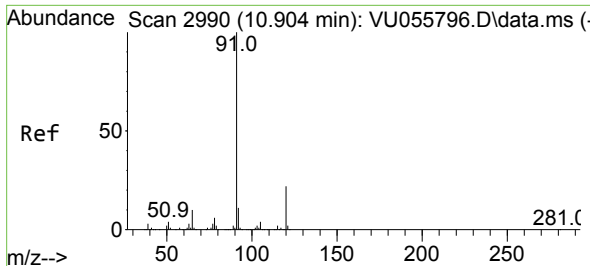
75 100

77 626.9 0.0 116.4#

110 2.2 0.0 74.6

97 1.0 0.0 40.0

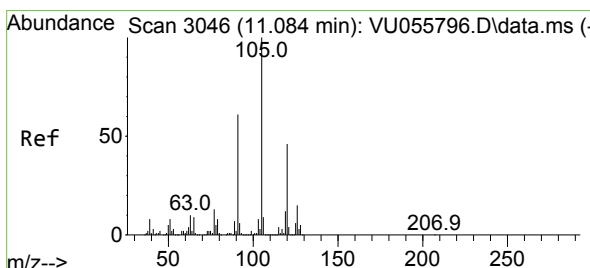
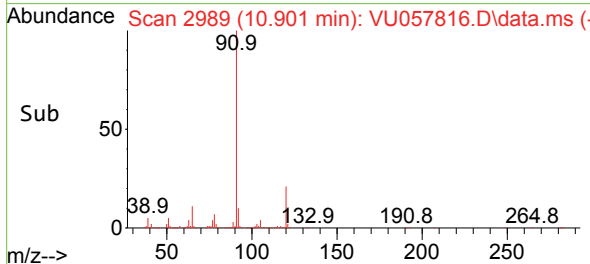
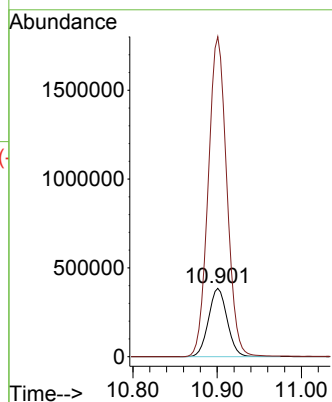
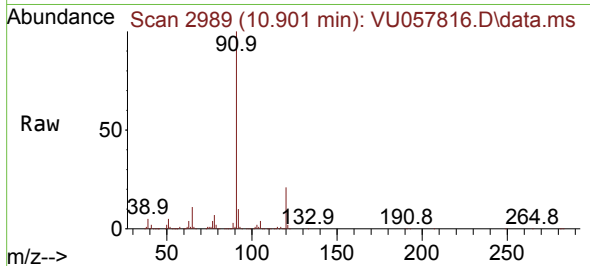




#73  
n-propylbenzene  
Concen: 40.902 ug/l  
RT: 10.901 min Scan# 2989  
Delta R.T. 0.000 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

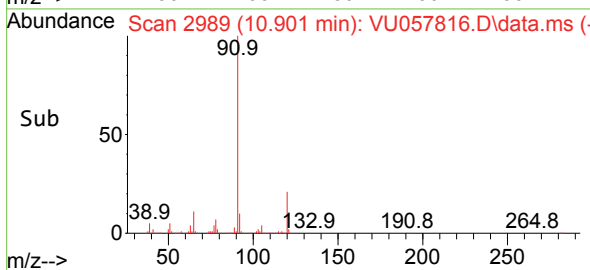
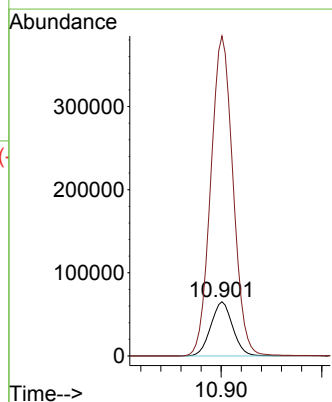
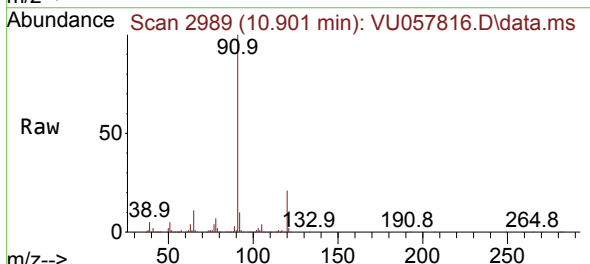
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-ADD-WS

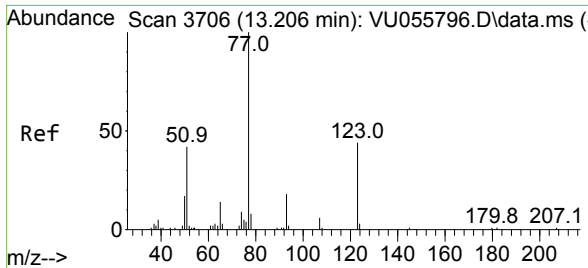
Tgt Ion:120 Resp: 592645  
Ion Ratio Lower Upper  
120 100  
91 467.9 369.8 554.6



#75  
1,3,5-Trimethylbenzene  
Concen: 2.103 ug/l  
RT: 10.901 min Scan# 2989  
Delta R.T. -0.183 min  
Lab File: VU057816.D  
Acq: 06 Feb 2024 11:54

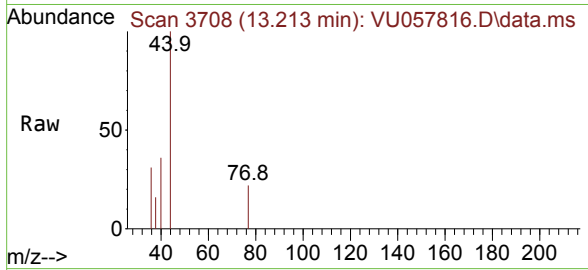
Tgt Ion:105 Resp: 98723  
Ion Ratio Lower Upper  
105 100  
120 600.3 37.8 56.8#





#80  
 Nitrobenzene  
 Concen: 2.411 ug/l  
 RT: 13.213 min Scan# 31  
 Delta R.T. 0.007 min  
 Lab File: VU057816.D  
 Acq: 06 Feb 2024 11:54

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PT-ADD-WS



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 116   |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 0.0   | 19.7  | 69.7# |
| 65       | 0.0   | 11.5  | 14.7# |

