

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072623\  
 Data File : VU054881.D  
 Acq On : 26 Jul 2023 17:19  
 Operator : MD/SY  
 Sample : 03587-10  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

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

Quant Time: Jul 28 03:23:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072523DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jul 26 09:45:35 2023  
 Response via : Initial Calibration

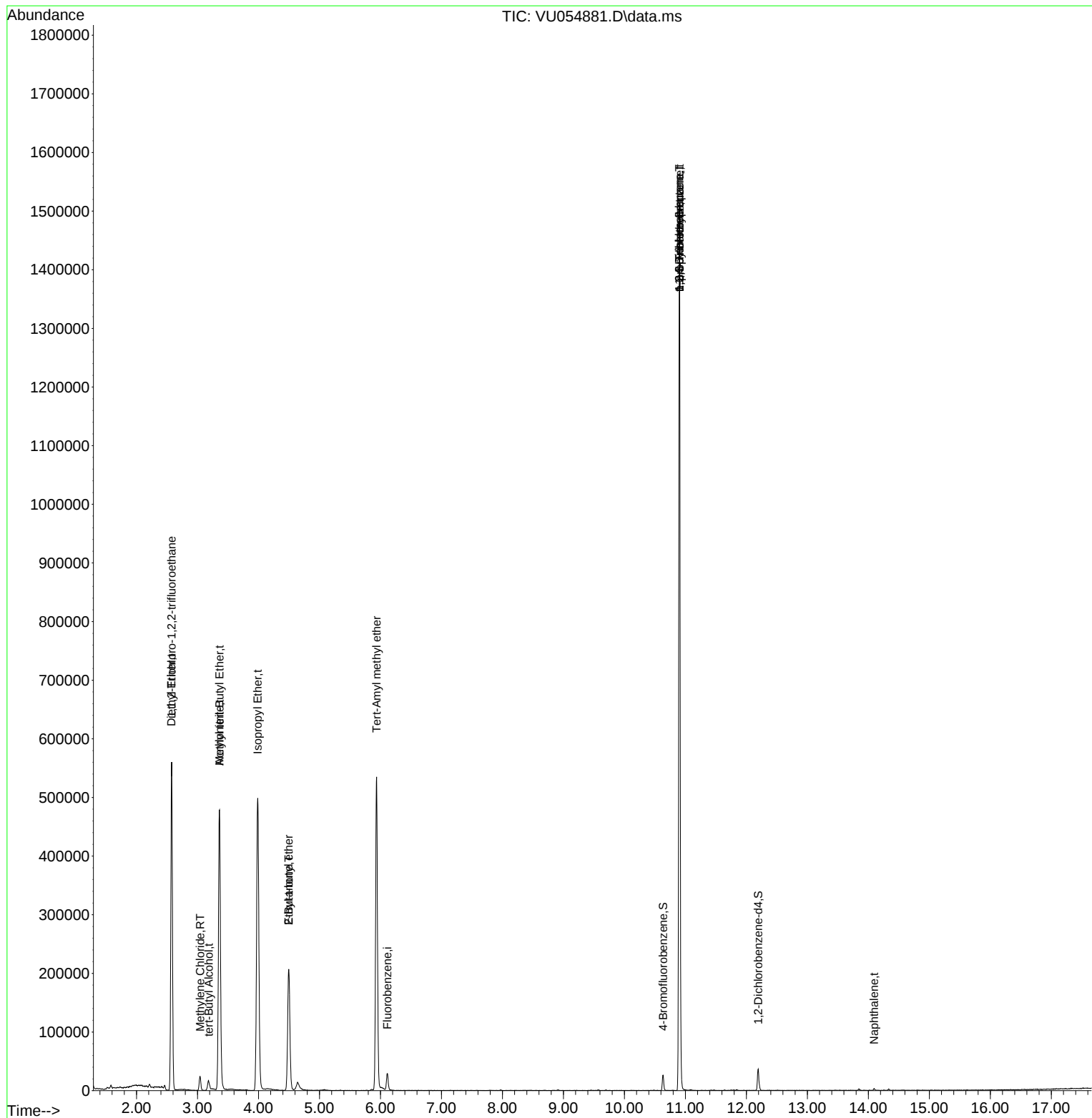
| Compound                     | R.T.   | QIon | Response | Conc   | Units    | Dev(Min) |
|------------------------------|--------|------|----------|--------|----------|----------|
| -----                        |        |      |          |        |          |          |
| Internal Standards           |        |      |          |        |          |          |
| 1) Fluorobenzene             | 6.113  | 96   | 26640    | 1.000  | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |          |          |
| 57) 4-Bromofluorobenzene     | 10.634 | 95   | 7773     | 0.962  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 96.000%  |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.193 | 152  | 9704     | 1.063  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 106.000% |          |
| Target Compounds             |        |      |          |        |          |          |
|                              |        |      |          |        | Qvalue   |          |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101  | 215761   | 37.237 | ug/l     | 99       |
| 12) Acrylonitrile            | 3.361  | 53   | 5871     | 5.086  | ug/l #   | 37       |
| 15) Methylene Chloride       | 3.042  | 84   | 11829    | 1.974  | ug/l     | 94       |
| 18) 2-Butanone               | 4.496  | 43   | 26529    | 17.431 | ug/l #   | 1        |
| 23) Diethyl Ether            | 2.573  | 59   | 2145     | 0.316  | ug/l #   | 22       |
| 24) tert-Butyl Alcohol       | 3.184  | 59   | 10078    | 15.965 | ug/l #   | 1        |
| 25) Methyl tert-Butyl Ether  | 3.361  | 73   | 579287   | 40.702 | ug/l     | 97       |
| 31) Isopropyl Ether          | 3.988  | 45   | 498118   | 30.135 | ug/l     | 100      |
| 32) Ethyl-t-butyl ether      | 4.496  | 59   | 219578   | 12.901 | ug/l     | 99       |
| 33) Tert-Amyl methyl ether   | 5.936  | 73   | 476599   | 29.618 | ug/l     | 100      |
| 46) t-1,4-Dichloro-2-butene  | 10.900 | 75   | 7394     | 4.943  | ug/l #   | 1        |
| 71) 1,2,3-Trichloropropane   | 10.900 | 75   | 7394     | 1.660  | ug/l #   | 44       |
| 73) n-propylbenzene          | 10.904 | 120  | 267378   | 31.113 | ug/l     | 97       |
| 75) 1,3,5-Trimethylbenzene   | 10.904 | 105  | 40835    | 1.570  | ug/l #   | 1        |
| 89) Naphthalene              | 14.093 | 128  | 3441     | 0.239  | ug/l #   | 89       |
| -----                        |        |      |          |        |          |          |

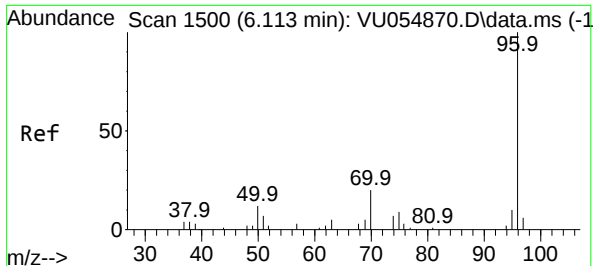
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
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PT-ADD-WS

Quant Time: Jul 28 03:23:02 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072523DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Wed Jul 26 09:45:35 2023  
Response via : Initial Calibration

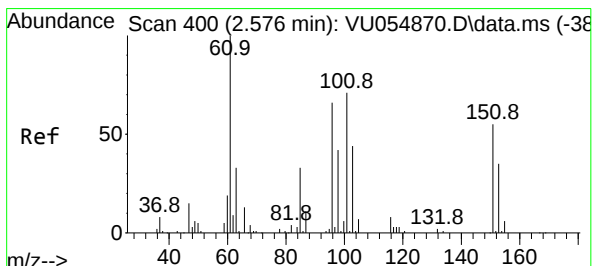
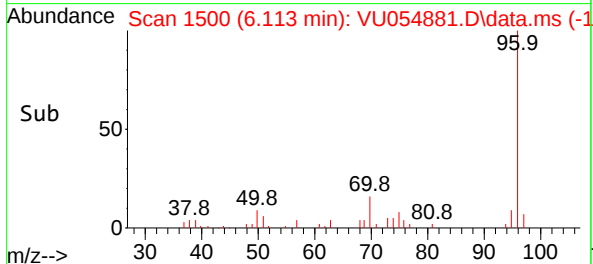
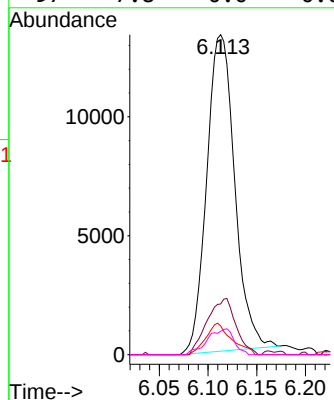
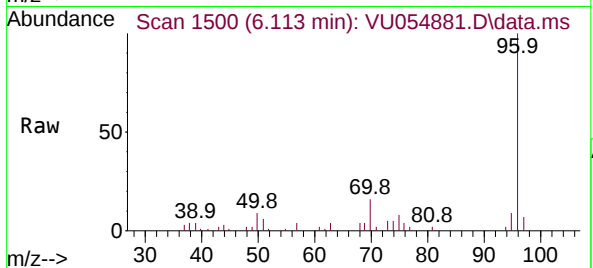




#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.113 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

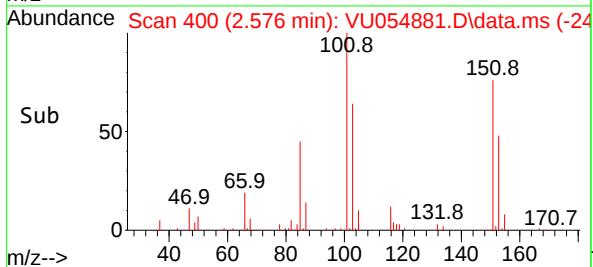
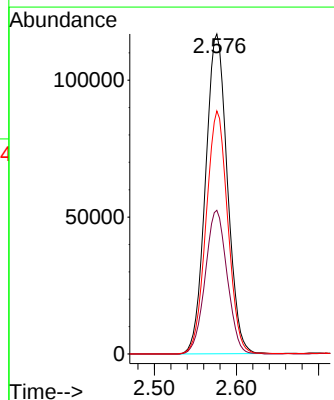
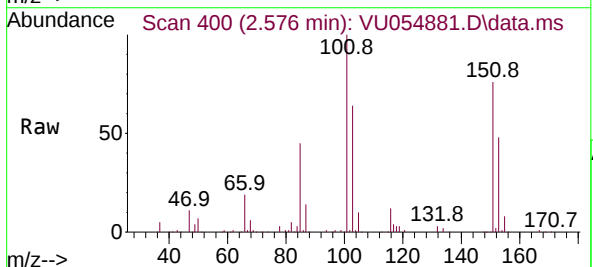
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-ADD-WS

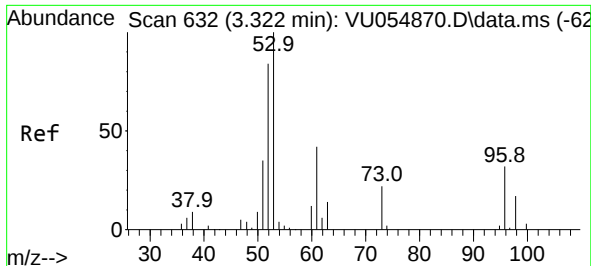
|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 26640 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 70 18.1     | 14.0 21.0   |
| 95 9.1      | 8.7 13.1    |
| 97 7.8      | 0.0 0.0     |



#8  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 37.237 ug/l  
RT: 2.576 min Scan# 400  
Delta R.T. -0.000 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

|              |              |
|--------------|--------------|
| Tgt Ion: 101 | Resp: 215761 |
| Ion Ratio    | Lower Upper  |
| 101 100      |              |
| 85 45.2      | 34.8 52.2    |
| 151 75.3     | 60.5 90.7    |





#12

Acrylonitrile

Concen: 5.086 ug/l

RT: 3.361 min Scan# 644

Delta R.T. 0.039 min

Lab File: VU054881.D

Acq: 26 Jul 2023 17:19

Instrument :

MSVOA\_U

ClientSampleId :

PT-ADD-WS

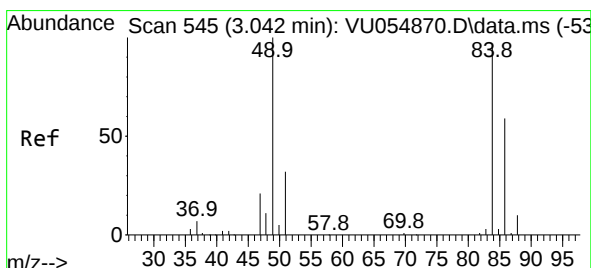
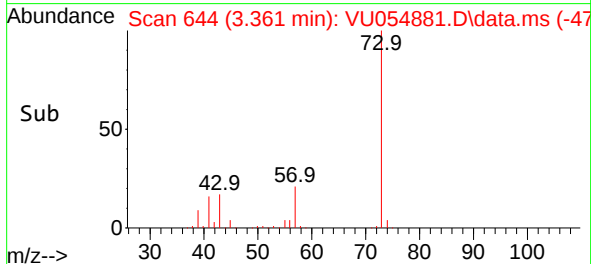
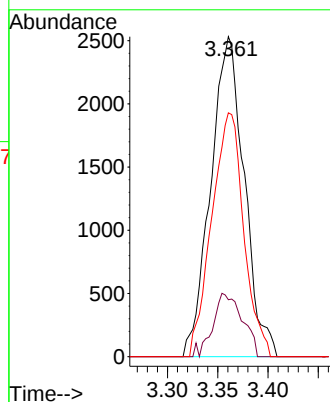
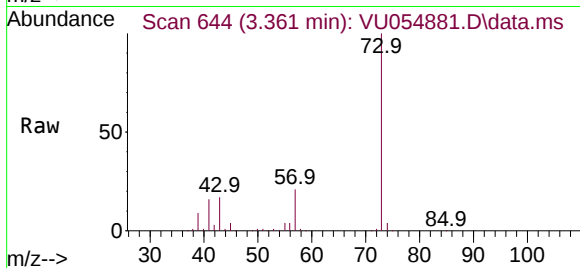
Tgt Ion: 53 Resp: 5871

Ion Ratio Lower Upper

53 100

52 17.4 64.2 96.4#

51 72.6 33.6 50.4#



#15

Methylene Chloride

Concen: 1.974 ug/l

RT: 3.042 min Scan# 545

Delta R.T. -0.000 min

Lab File: VU054881.D

Acq: 26 Jul 2023 17:19

Tgt Ion: 84 Resp: 11829

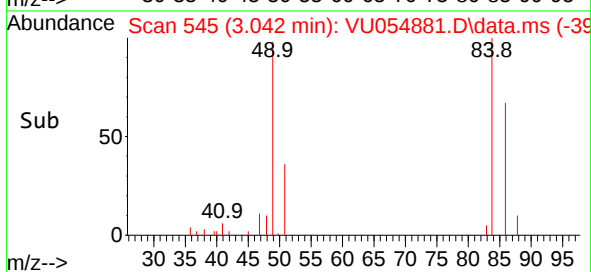
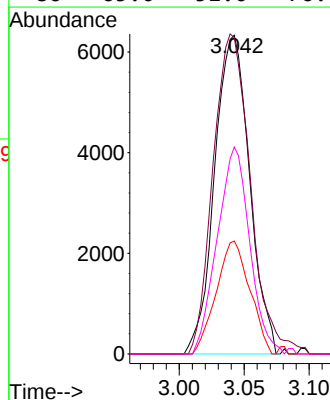
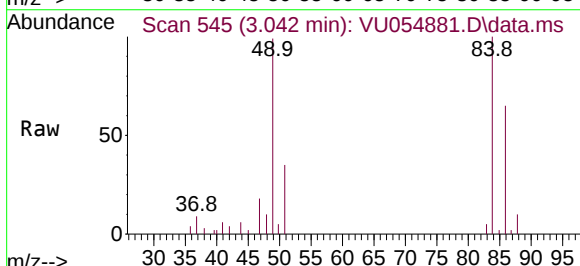
Ion Ratio Lower Upper

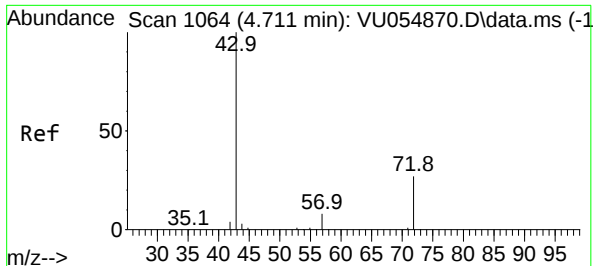
84 100

49 99.3 87.8 131.6

51 35.4 0.0 68.2

86 65.0 51.0 76.4





#18

2-Butanone

Concen: 17.431 ug/l

RT: 4.496 min Scan# 91

Delta R.T. -0.215 min

Lab File: VU054881.D

Acq: 26 Jul 2023 17:19

Instrument :

MSVOA\_U

ClientSampleId :

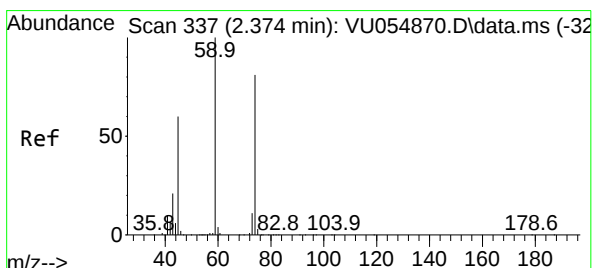
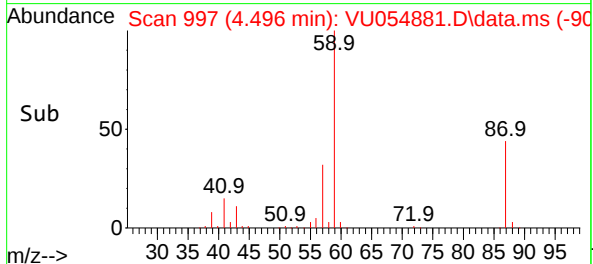
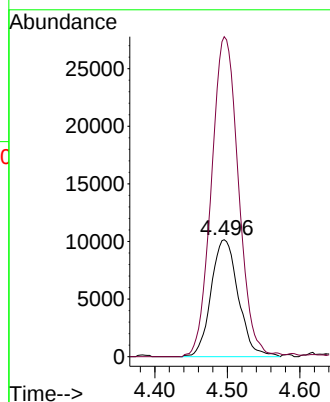
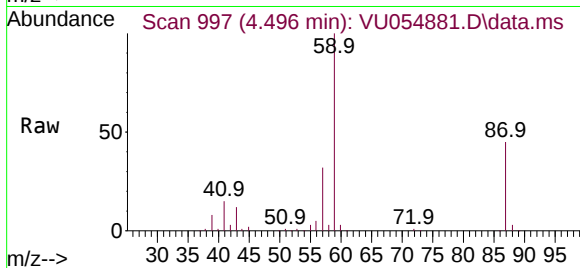
PT-ADD-WS

Tgt Ion: 43 Resp: 26529

Ion Ratio Lower Upper

43 100

57 273.4 0.0 20.8#



#23

Diethyl Ether

Concen: 0.316 ug/l

RT: 2.573 min Scan# 399

Delta R.T. 0.199 min

Lab File: VU054881.D

Acq: 26 Jul 2023 17:19

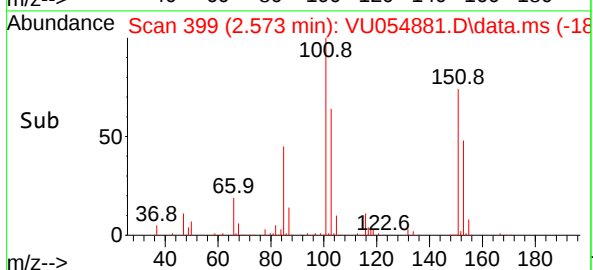
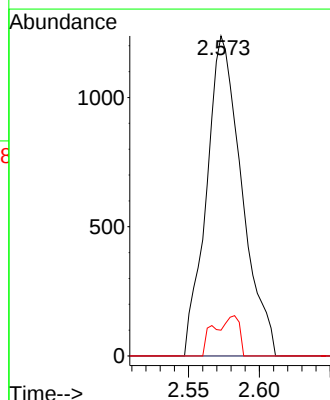
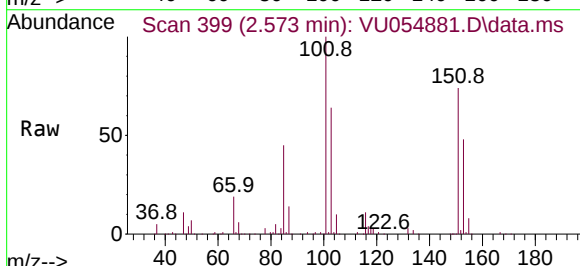
Tgt Ion: 59 Resp: 2145

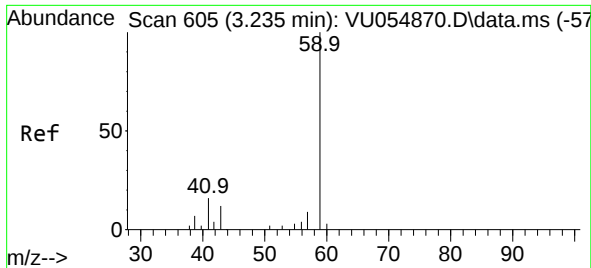
Ion Ratio Lower Upper

59 100

45 9.7 51.4 77.0#

74 3.9 63.1 94.7#

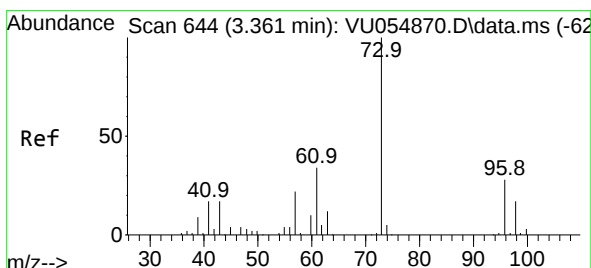
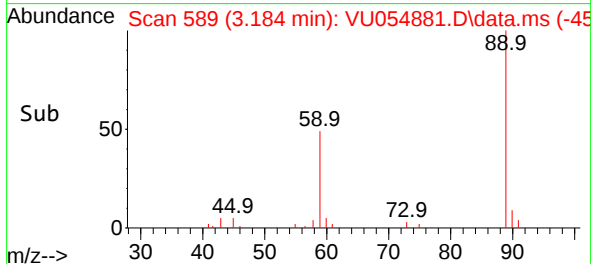
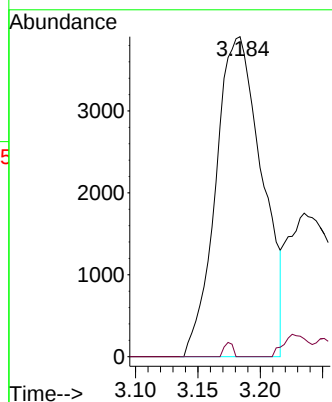
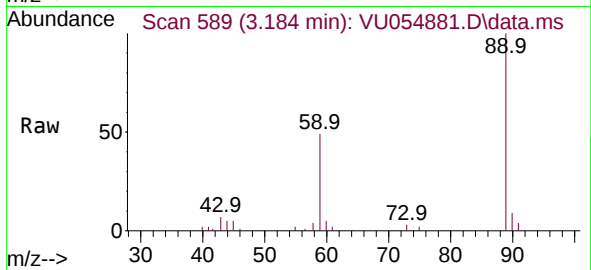




#24  
tert-Butyl Alcohol  
Concen: 15.965 ug/l  
RT: 3.184 min Scan# 589  
Delta R.T. -0.051 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

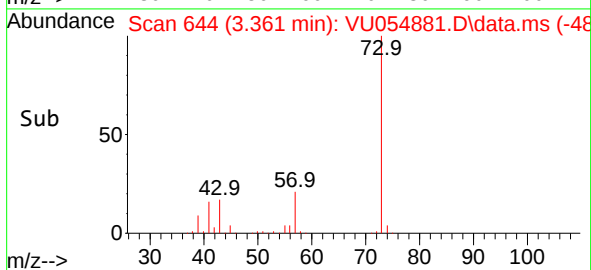
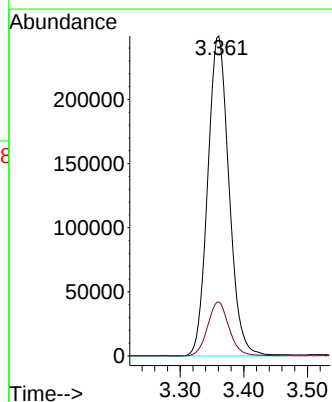
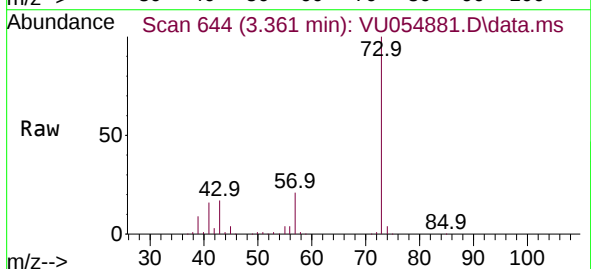
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-ADD-WS

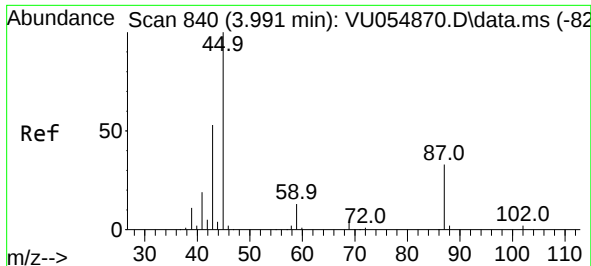
Tgt Ion: 59 Resp: 10078  
Ion Ratio Lower Upper  
59 100  
57 1214.1 2.2 3.2#



#25  
Methyl tert-Butyl Ether  
Concen: 40.702 ug/l  
RT: 3.361 min Scan# 644  
Delta R.T. -0.000 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

Tgt Ion: 73 Resp: 579287  
Ion Ratio Lower Upper  
73 100  
43 16.9 14.6 22.0

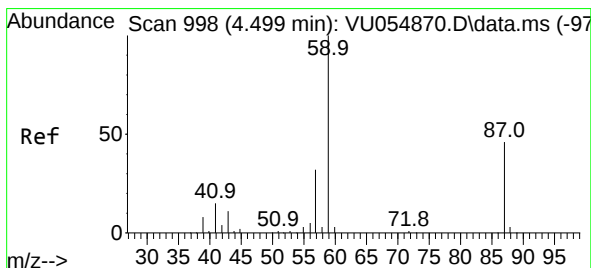
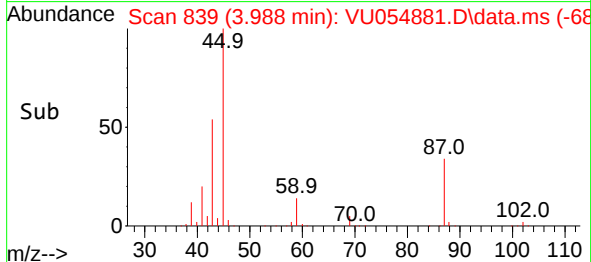
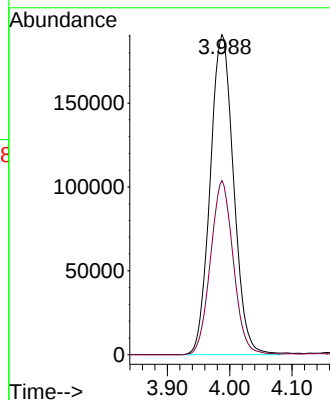
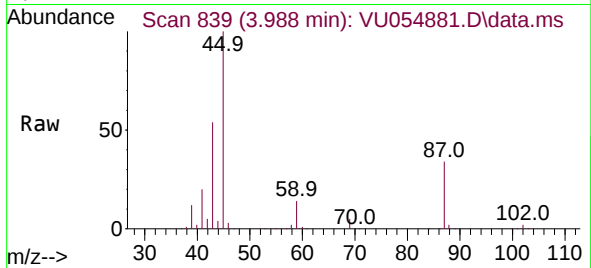




#31  
Isopropyl Ether  
Concen: 30.135 ug/l  
RT: 3.988 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

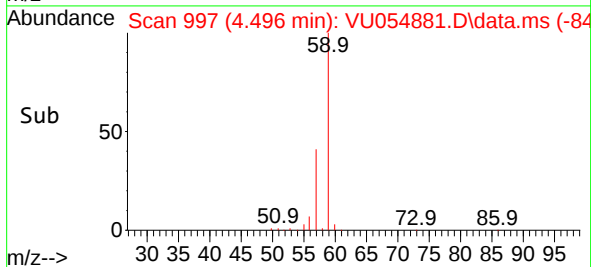
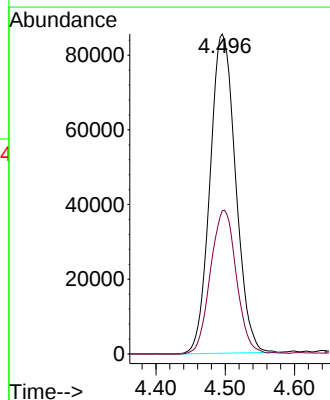
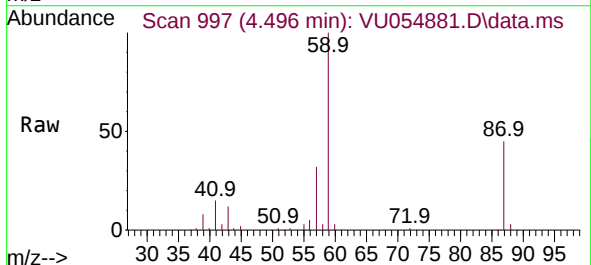
Instrument :  
MSVOA\_U  
ClientSampleId :  
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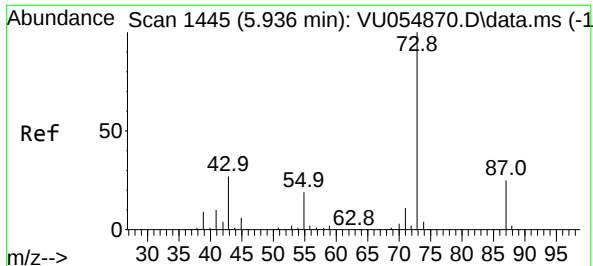
Tgt Ion: 45 Resp: 498118  
Ion Ratio Lower Upper  
45 100  
43 53.0 26.4 79.2



#32  
Ethyl-t-butyl ether  
Concen: 12.901 ug/l  
RT: 4.496 min Scan# 997  
Delta R.T. -0.003 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

Tgt Ion: 59 Resp: 219578  
Ion Ratio Lower Upper  
59 100  
87 45.1 35.7 53.5

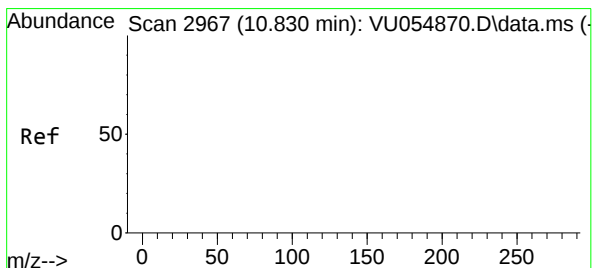
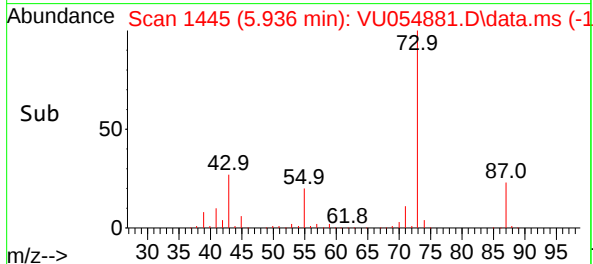
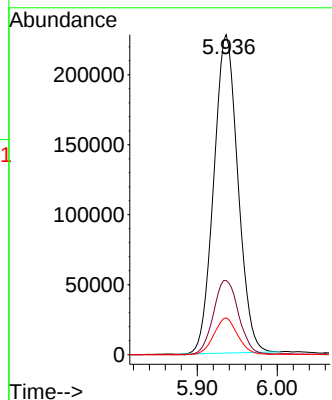
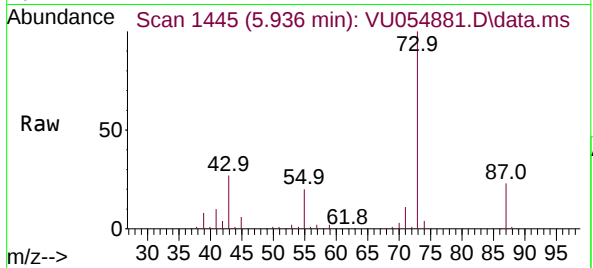




#33  
Tert-Amyl methyl ether  
Concen: 29.618 ug/l  
RT: 5.936 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

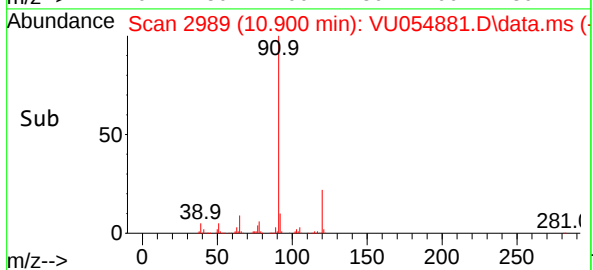
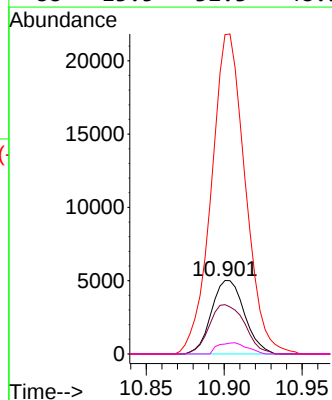
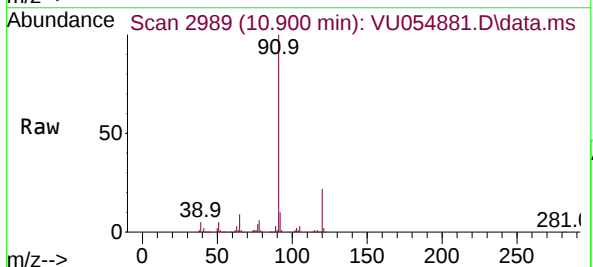
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-ADD-WS

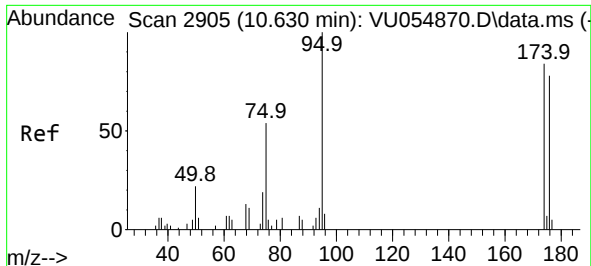
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 476599 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 87       | 24.2  | 19.6  | 29.4   |
| 71       | 11.2  | 9.1   | 13.7   |



#46  
t-1,4-Dichloro-2-butene  
Concen: 4.943 ug/l  
RT: 10.900 min Scan# 2989  
Delta R.T. 0.071 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 7394  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 72.0  | 62.9  | 94.3  |
| 89       | 446.2 | 47.8  | 71.8# |
| 88       | 13.5  | 32.3  | 48.5# |





#57

4-Bromofluorobenzene

Concen: 0.962 ug/l

RT: 10.634 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VU054881.D

Acq: 26 Jul 2023 17:19

Instrument :

MSVOA\_U

ClientSampleId :

PT-ADD-WS

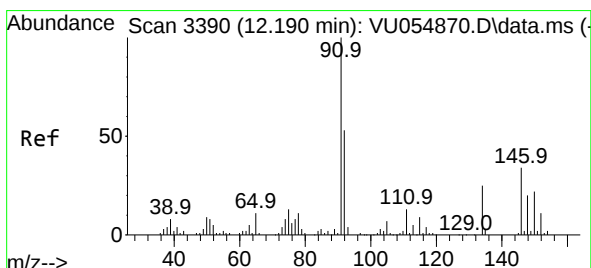
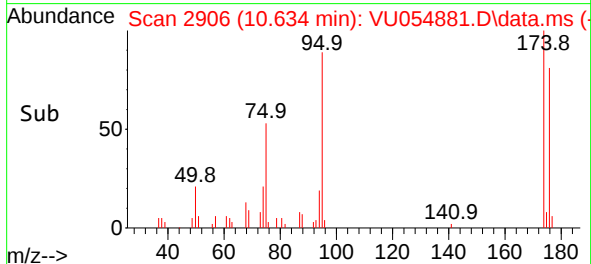
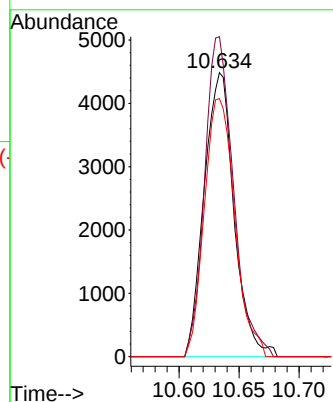
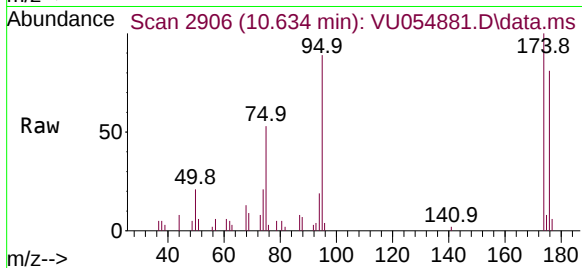
Tgt Ion: 95 Resp: 7773

Ion Ratio Lower Upper

95 100

174 108.2 79.3 118.9

176 92.4 71.5 107.3



#68

1,2-Dichlorobenzene-d4

Concen: 1.063 ug/l

RT: 12.193 min Scan# 3391

Delta R.T. 0.003 min

Lab File: VU054881.D

Acq: 26 Jul 2023 17:19

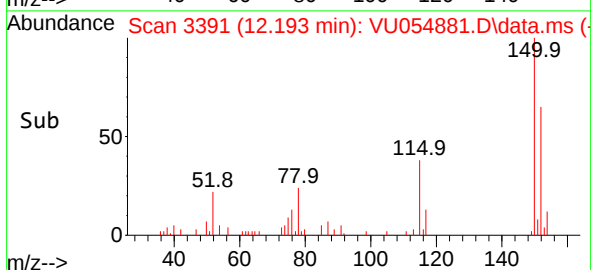
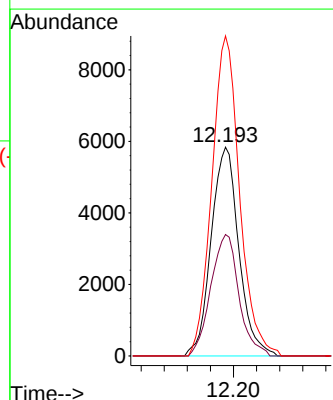
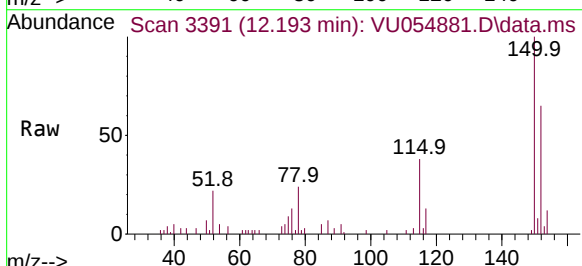
Tgt Ion:152 Resp: 9704

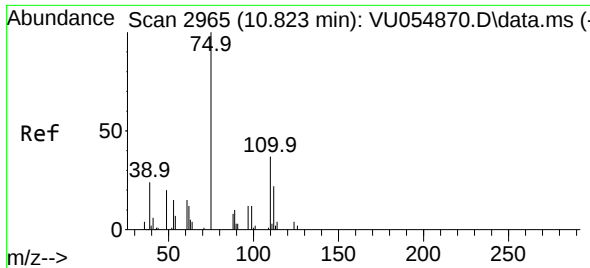
Ion Ratio Lower Upper

152 100

115 59.0 0.0 234.8

150 153.7 0.0 598.2

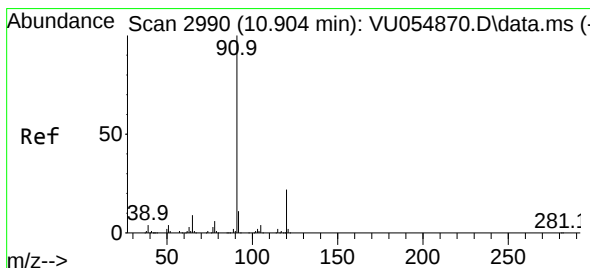
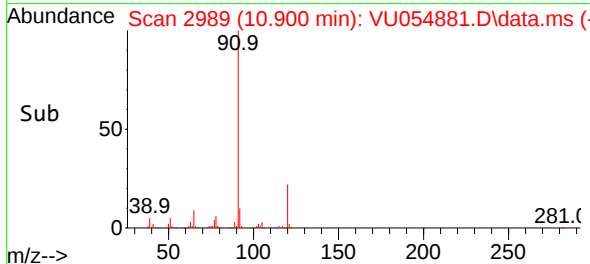
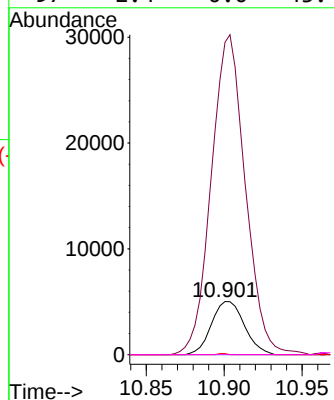
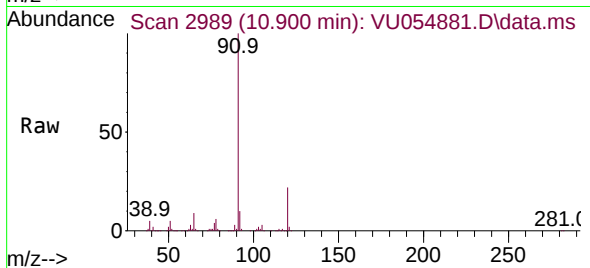




#71  
1,2,3-Trichloropropane  
Concen: 1.660 ug/l  
RT: 10.900 min Scan# 2965  
Delta R.T. 0.077 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

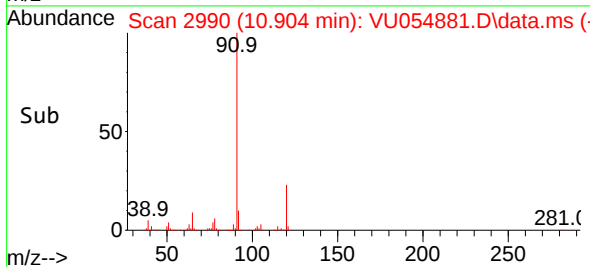
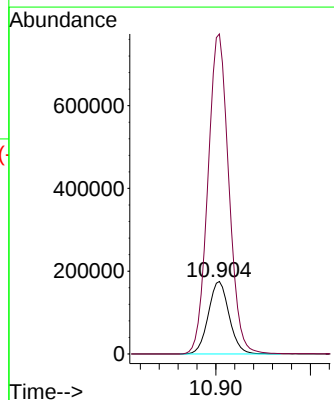
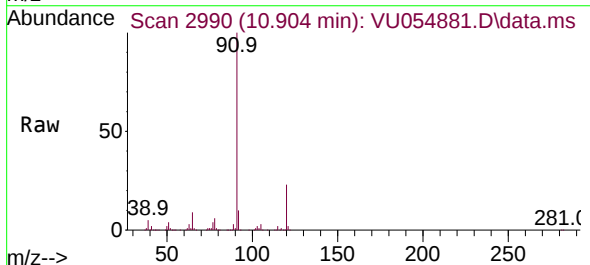
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-ADD-WS

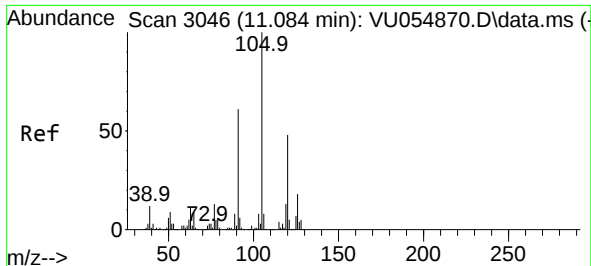
Tgt Ion: 75 Resp: 7394  
Ion Ratio Lower Upper  
75 100  
77 621.0 0.0 0.0#  
110 0.5 0.0 80.8  
97 2.4 0.0 43.4



#73  
n-propylbenzene  
Concen: 31.113 ug/l  
RT: 10.904 min Scan# 2990  
Delta R.T. -0.000 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

Tgt Ion:120 Resp: 267378  
Ion Ratio Lower Upper  
120 100  
91 444.8 361.8 542.6

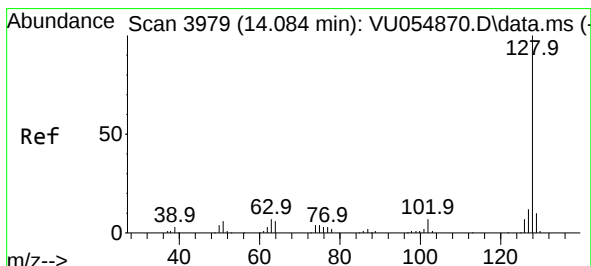
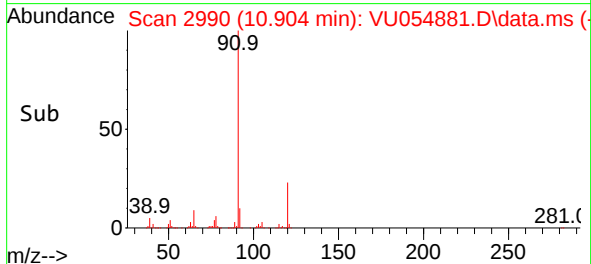
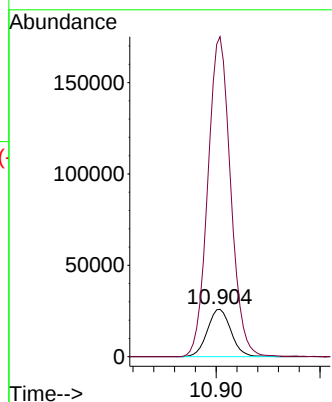
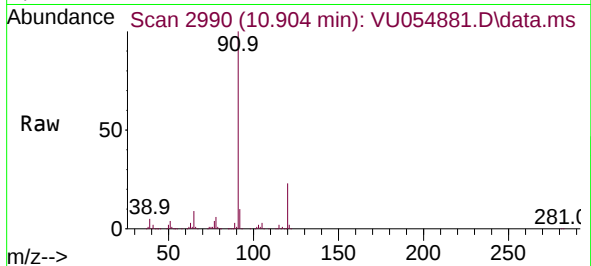




#75  
1,3,5-Trimethylbenzene  
Concen: 1.570 ug/l  
RT: 10.904 min Scan# 2990  
Delta R.T. -0.180 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

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

Tgt Ion:105 Resp: 40835  
Ion Ratio Lower Upper  
105 100  
120 654.8 39.0 58.4#



#89  
Naphthalene  
Concen: 0.239 ug/l  
RT: 14.093 min Scan# 3982  
Delta R.T. 0.010 min  
Lab File: VU054881.D  
Acq: 26 Jul 2023 17:19

Tgt Ion:128 Resp: 3441  
Ion Ratio Lower Upper  
128 100  
127 11.7 10.6 15.8  
129 3.7 8.7 13.1#

