

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060321\  
 Data File : VU044034.D  
 Acq On : 03 Jun 2021 12:16  
 Operator : SY/MD  
 Sample : VU0603WBL01  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0603WBL01

Quant Time: Jun 04 06:27:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060221DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jun 03 11:17:14 2021  
 Response via : Initial Calibration

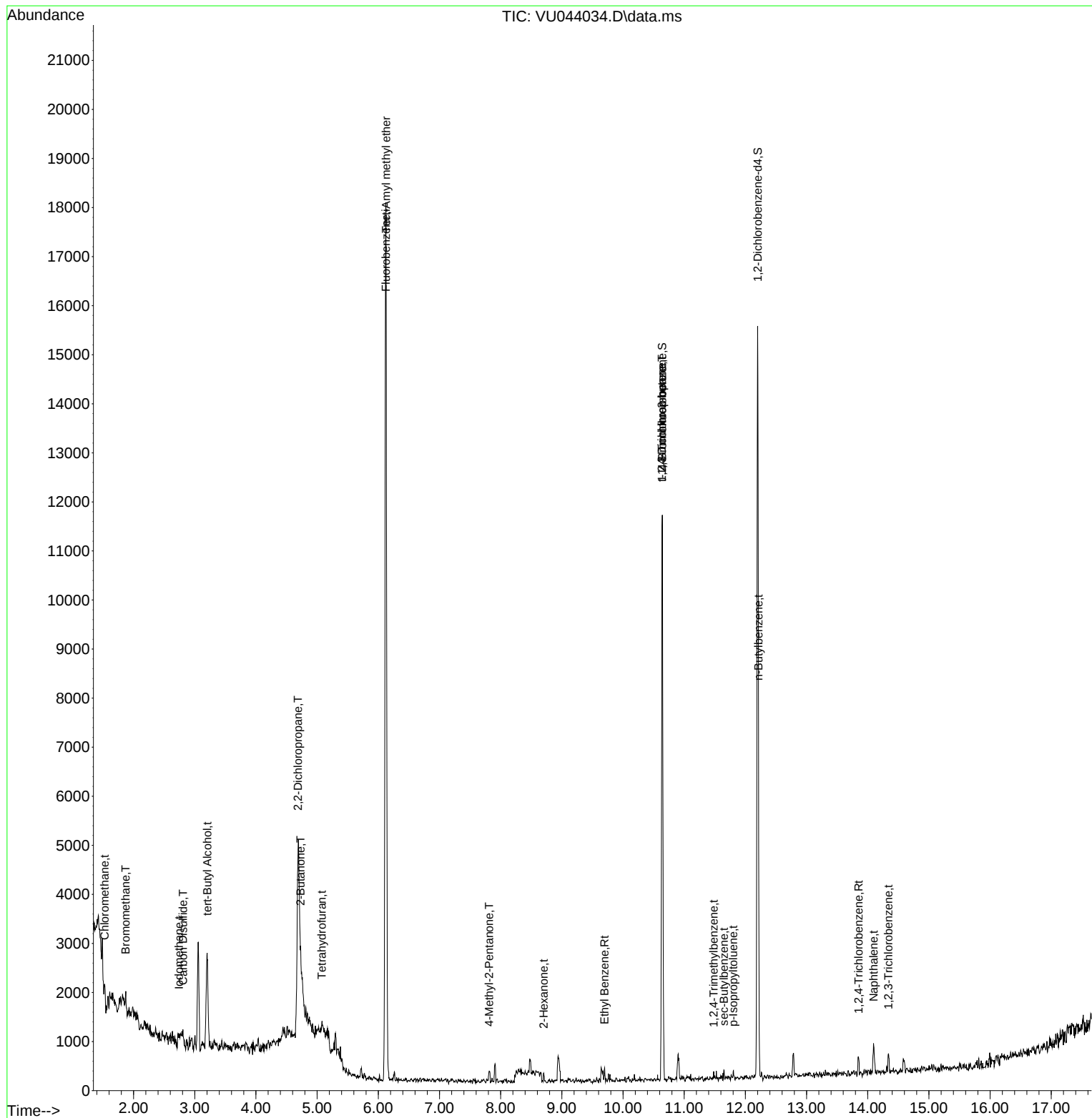
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) Fluorobenzene            | 6.124  | 96   | 16904    | 1.00  | ug/l   | # 0.00   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 57) 4-Bromofluorobenzene    | 10.642 | 95   | 4270     | 0.73  | ug/l   | 0.00     |
| Spiked Amount 1.000         |        |      | Recovery | =     | 73.00% |          |
| 68) 1,2-Dichlorobenzene-d4  | 12.201 | 152  | 4366     | 0.70  | ug/l   | 0.00     |
| Spiked Amount 1.000         |        |      | Recovery | =     | 70.00% |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 3) Chloromethane            | 1.527  | 50   | 300      | 0.04  | ug/l   | # 42     |
| 5) Bromomethane             | 1.867  | 94   | 92       | 0.02  | ug/l   | 95       |
| 10) Iodomethane             | 2.742  | 142  | 87       | 0.02  | ug/l   | # 30     |
| 13) Acetone                 | 2.636  | 43   | 99       | Below | Cal    | # 38     |
| 14) Carbon Disulfide        | 2.806  | 76   | 257      | 0.02  | ug/l   | # 75     |
| 15) Methylene Chloride      | 3.054  | 84   | 878      | Below | Cal    | 99       |
| 18) 2-Butanone              | 4.732  | 43   | 40       | 0.04  | ug/l   | 76       |
| 21) 2,2-Dichloropropane     | 4.687  | 77   | 296      | 0.04  | ug/l   | # 54     |
| 24) tert-Butyl Alcohol      | 3.205  | 59   | 1533     | 3.63  | ug/l   | # 75     |
| 33) Tert-Amyl methyl ether  | 6.128  | 73   | 140      | 0.01  | ug/l   | # 58     |
| 41) Tetrahydrofuran         | 5.076  | 42   | 40       | 0.05  | ug/l   | # 35     |
| 45) 4-Methyl-2-Pentanone    | 7.812  | 43   | 307      | 0.10  | ug/l   | # 41     |
| 46) t-1,4-Dichloro-2-butene | 10.639 | 75   | 2206     | 1.64  | ug/l   | # 23     |
| 54) 2-Hexanone              | 8.703  | 43   | 150      | 0.07  | ug/l   | # 31     |
| 63) Ethyl Benzene           | 9.697  | 91   | 48       | 0.50  | ug/l   | # 44     |
| 71) 1,2,3-Trichloropropane  | 10.639 | 75   | 2206     | 0.57  | ug/l   | # 39     |
| 78) 1,2,4-Trimethylbenzene  | 11.481 | 105  | 19       | 0.44  | ug/l   | # 31     |
| 79) sec-Butylbenzene        | 11.648 | 105  | 109      | 0.39  | ug/l   | # 58     |
| 81) p-Isopropyltoluene      | 11.803 | 119  | 69       | 0.46  | ug/l   | # 50     |
| 84) n-Butylbenzene          | 12.214 | 91   | 201      | 0.49  | ug/l   | # 53     |
| 87) 1,2,4-Trichlorobenzene  | 13.851 | 180  | 239      | 0.04  | ug/l   | # 79     |
| 89) Naphthalene             | 14.098 | 128  | 902      | 1.07  | ug/l   | # 69     |
| 90) 1,2,3-Trichlorobenzene  | 14.340 | 180  | 293      | 0.05  | ug/l   | # 72     |
| -----                       |        |      |          |       |        |          |

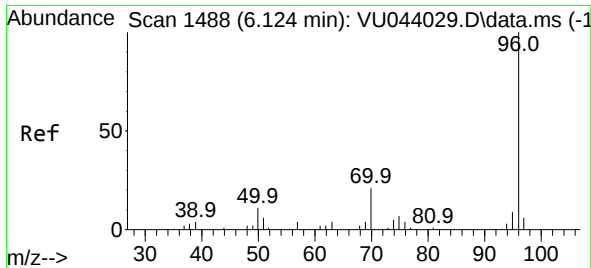
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060321\  
Data File : VU044034.D  
Acq On : 03 Jun 2021 12:16  
Operator : SY/MD  
Sample : VU0603WBL01  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

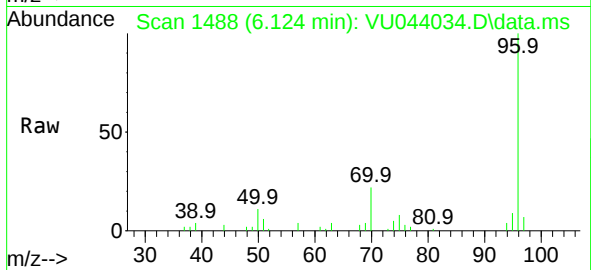
Quant Time: Jun 04 06:27:24 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060221DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Thu Jun 03 11:17:14 2021  
Response via : Initial Calibration



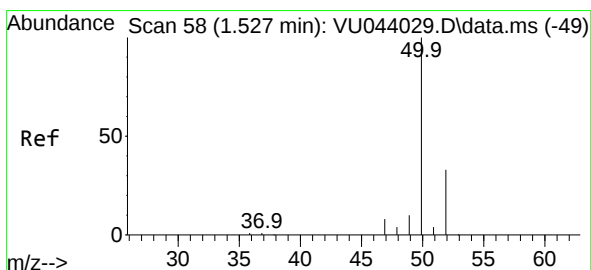
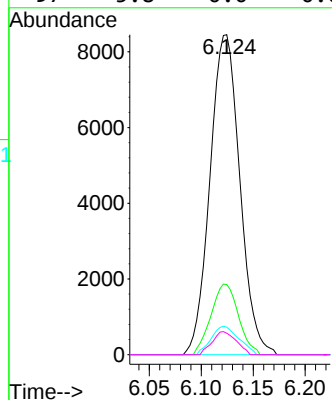
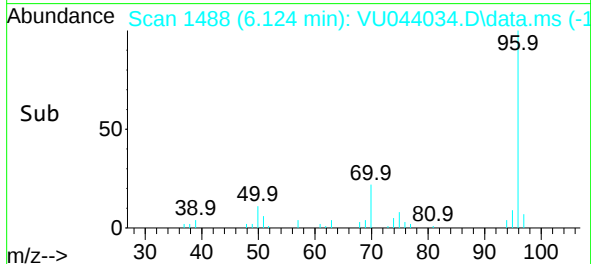


#1  
Fluorobenzene  
Concen: 1.00 ug/l  
RT: 6.124 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

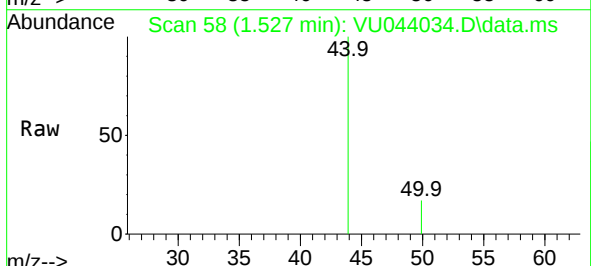
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01



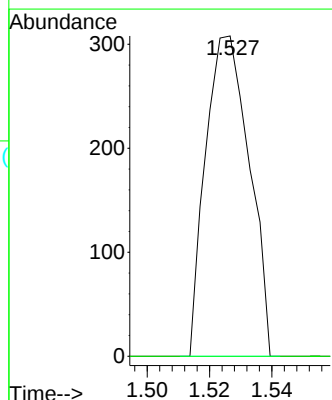
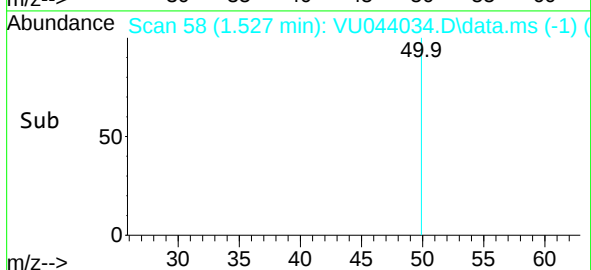
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 70      | 20.2  | 16.6  | 25.0  |
| 95      | 8.2   | 7.0   | 10.4  |
| 97      | 5.8   | 0.0   | 0.0   |

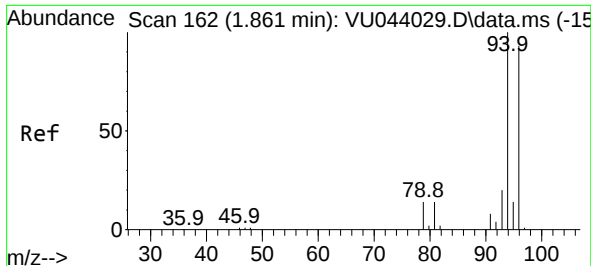


#3  
Chloromethane  
Concen: 0.04 ug/l  
RT: 1.527 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 0.0   | 26.4  | 39.6  |





#5

Bromomethane

Concen: 0.02 ug/l

RT: 1.867 min Scan# 164

Delta R.T. 0.006 min

Lab File: VU044034.D

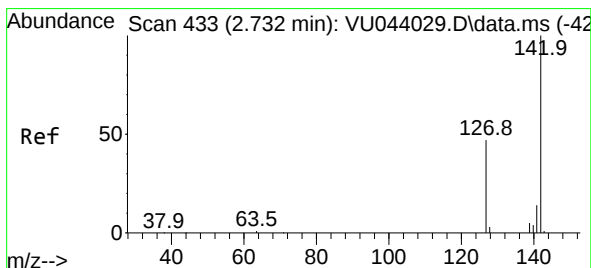
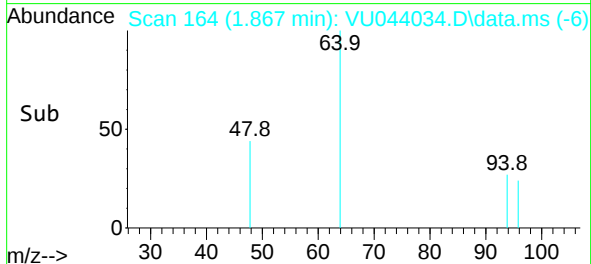
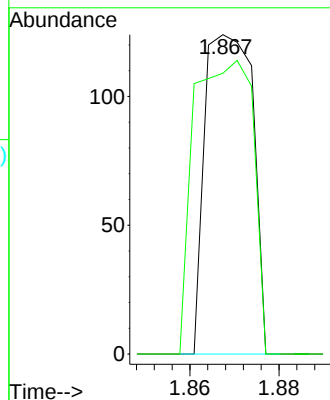
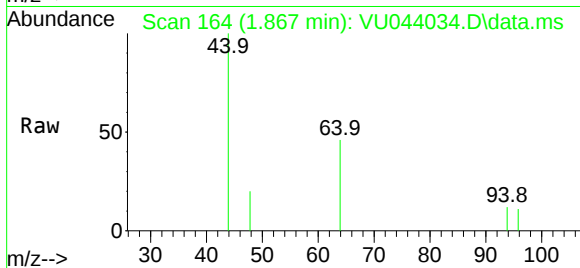
Acq: 03 Jun 2021 12:16

Tgt Ion: 94 Resp: 92

Ion Ratio Lower Upper

94 100

96 87.9 74.1 111.1



#10

Iodomethane

Concen: 0.02 ug/l

RT: 2.742 min Scan# 436

Delta R.T. 0.010 min

Lab File: VU044034.D

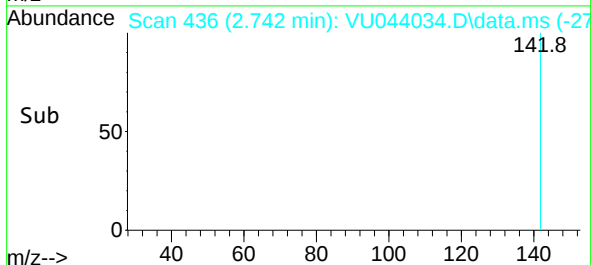
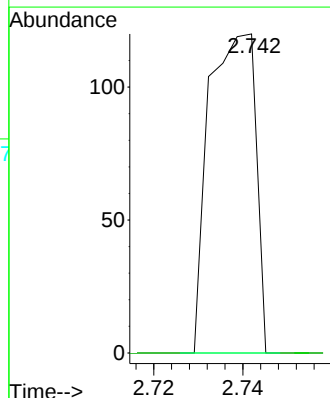
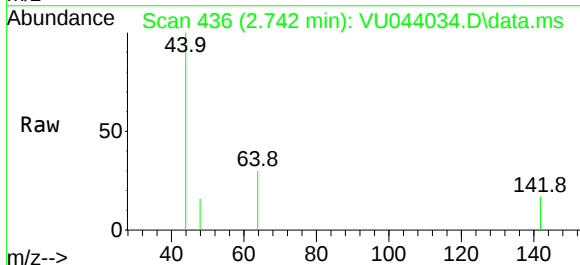
Acq: 03 Jun 2021 12:16

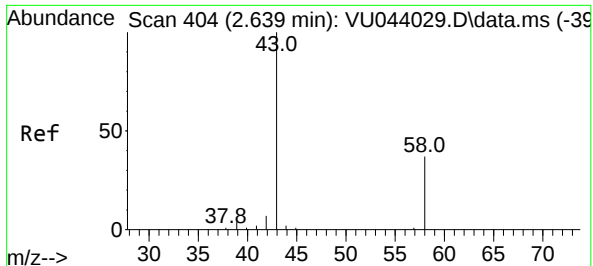
Tgt Ion: 142 Resp: 87

Ion Ratio Lower Upper

142 100

127 0.0 37.5 56.3#

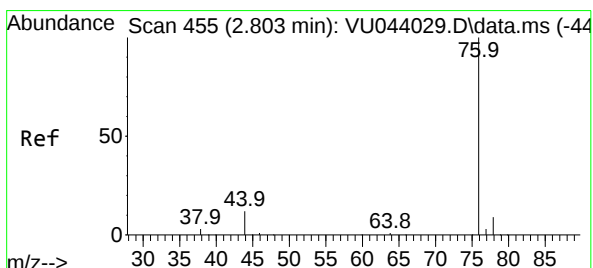
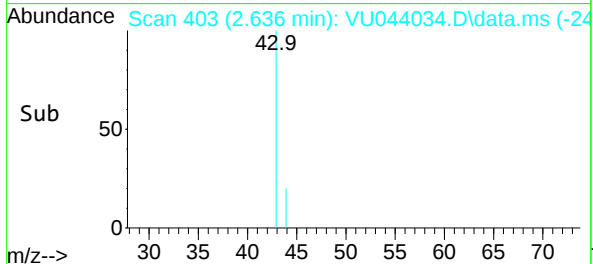
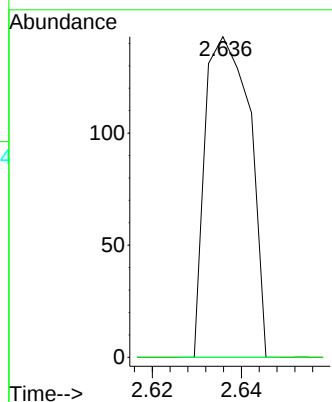
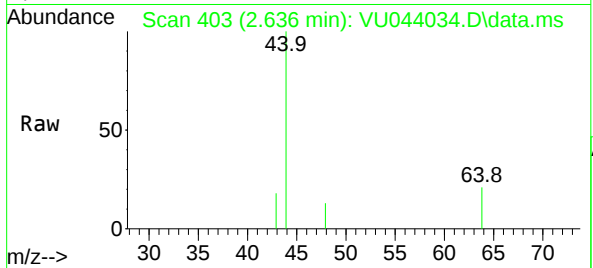




#13  
Acetone  
Concen: Below Cal  
RT: 2.636 min Scan# 403  
Delta R.T. -0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

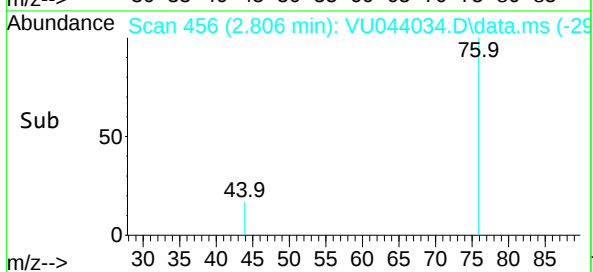
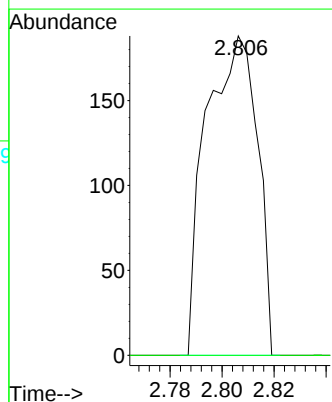
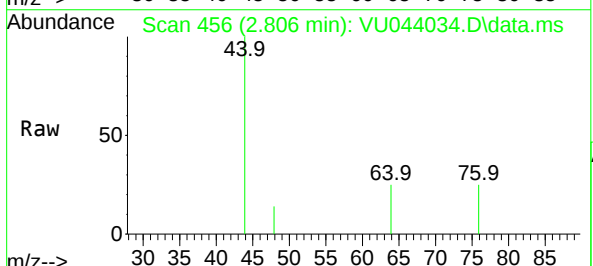
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

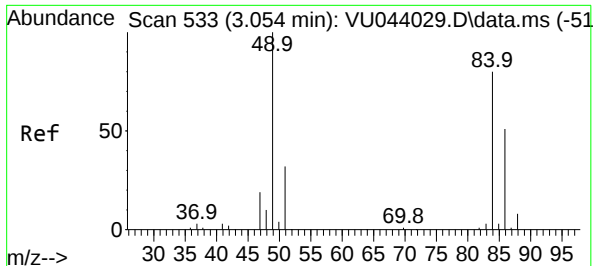
Tgt Ion: 43 Resp: 99  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.8 44.6#



#14  
Carbon Disulfide  
Concen: 0.02 ug/l  
RT: 2.806 min Scan# 456  
Delta R.T. 0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Tgt Ion: 76 Resp: 257  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.3 10.9#



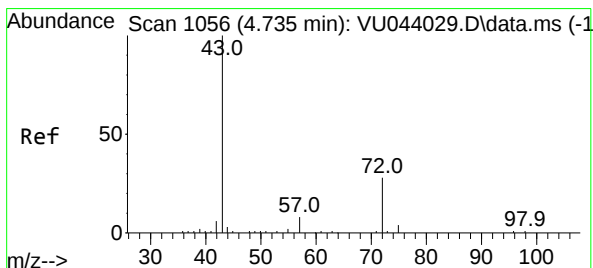
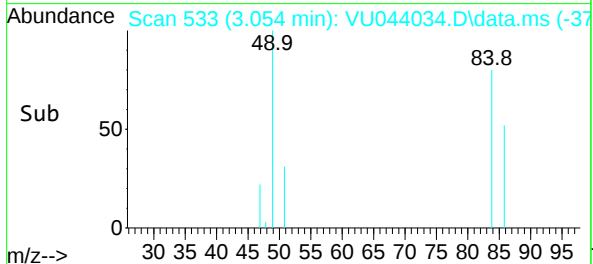
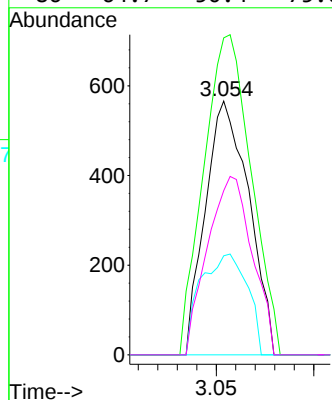
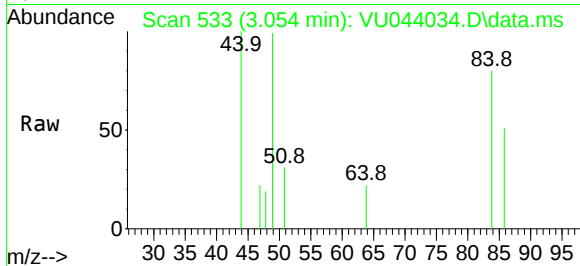


#15  
Methylene Chloride  
Concen: Below Cal  
RT: 3.054 min Scan# 533  
Delta R.T. -0.000 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

Tgt Ion: 84 Resp: 878

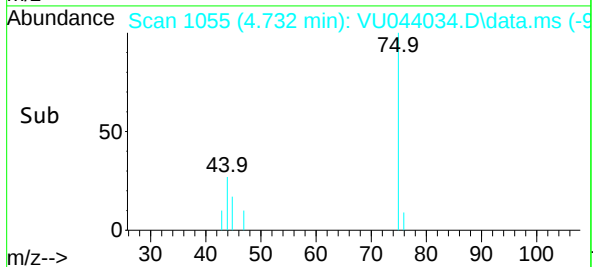
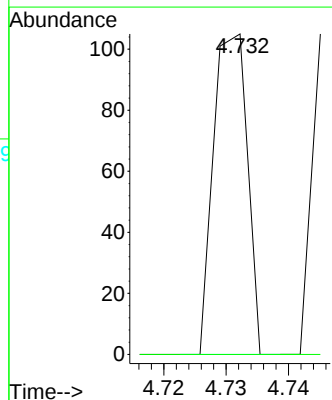
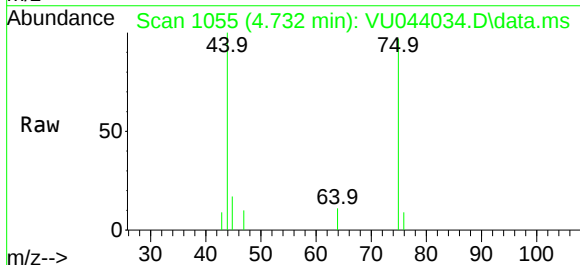
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 124.9 | 99.5  | 149.3 |
| 51  | 39.0  | 0.0   | 80.0  |
| 86  | 64.7  | 50.4  | 75.6  |

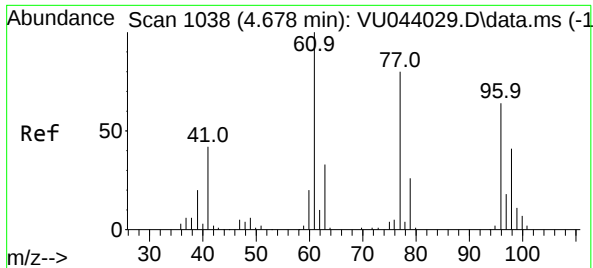


#18  
2-Butanone  
Concen: 0.04 ug/l  
RT: 4.732 min Scan# 1055  
Delta R.T. -0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Tgt Ion: 43 Resp: 40

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 57  | 0.0   | 0.0   | 16.8  |

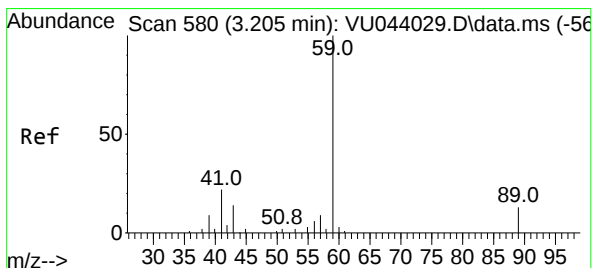
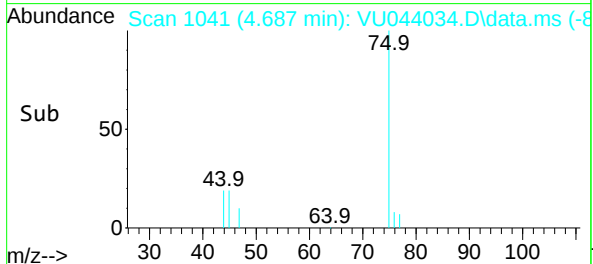
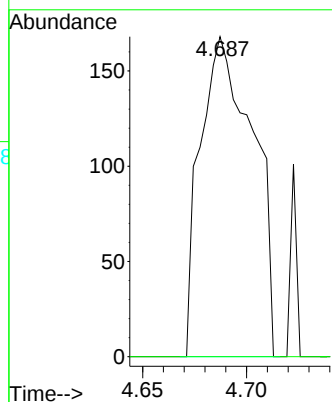
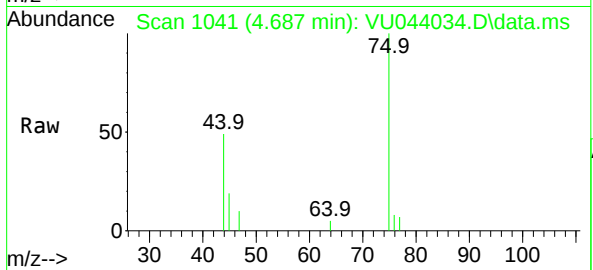




#21  
2,2-Dichloropropane  
Concen: 0.04 ug/l  
RT: 4.687 min Scan# 1041  
Delta R.T. 0.010 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

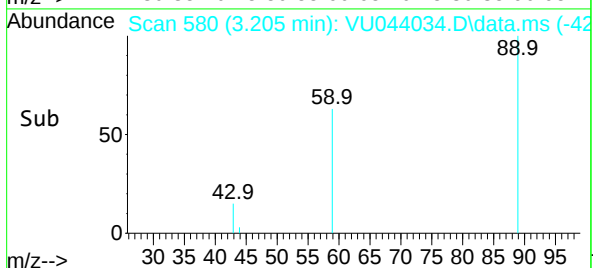
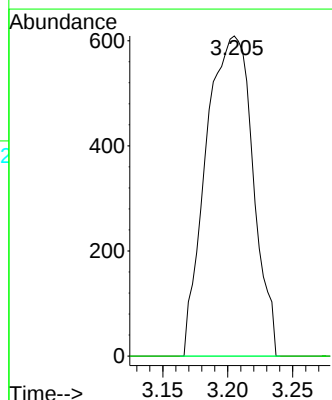
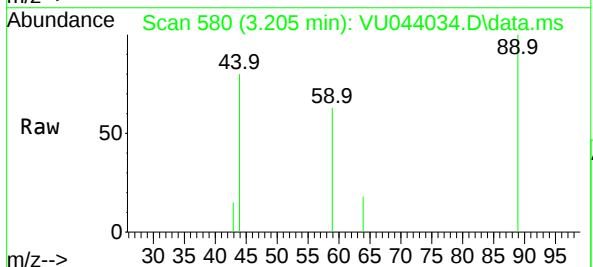
Instrument :  
MSVOA\_U  
ClientSampled :  
VU0603WBL01

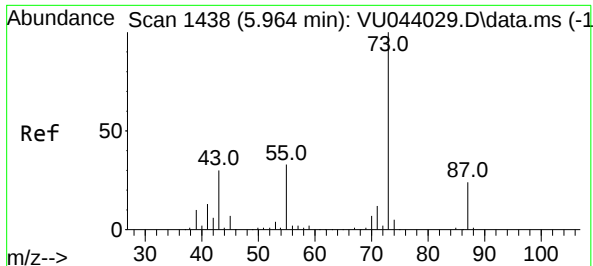
Tgt Ion: 77 Resp: 296  
Ion Ratio Lower Upper  
77 100  
97 0.0 17.4 26.0#



#24  
tert-Butyl Alcohol  
Concen: 3.63 ug/l  
RT: 3.205 min Scan# 580  
Delta R.T. -0.000 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Tgt Ion: 59 Resp: 1533  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.1 10.7#

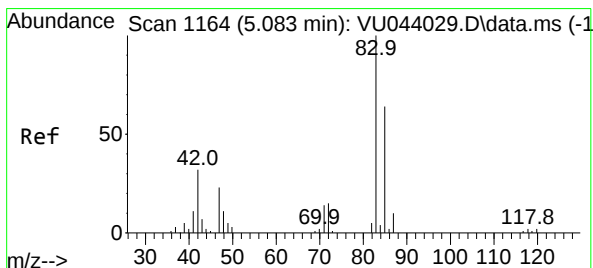
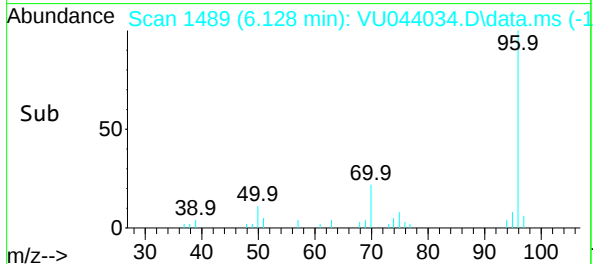
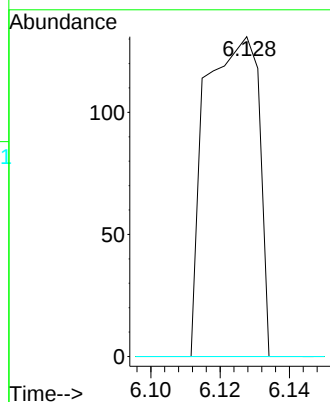
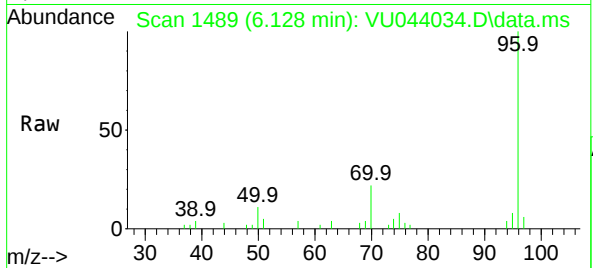




#33  
Tert-Amyl methyl ether  
Concen: 0.01 ug/l  
RT: 6.128 min Scan# 1489  
Delta R.T. 0.164 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

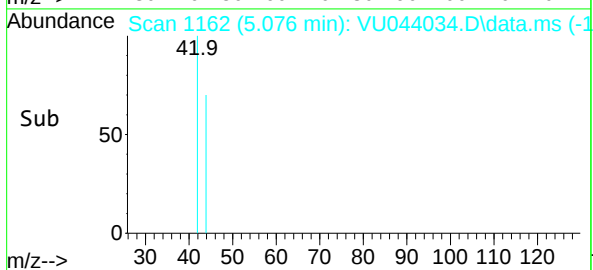
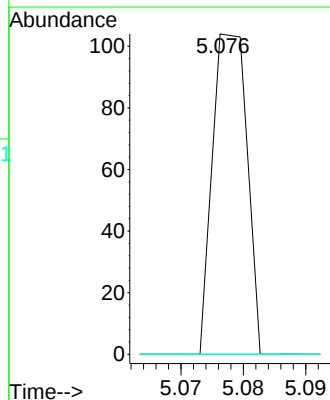
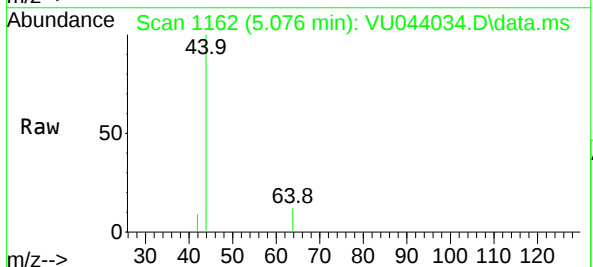
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

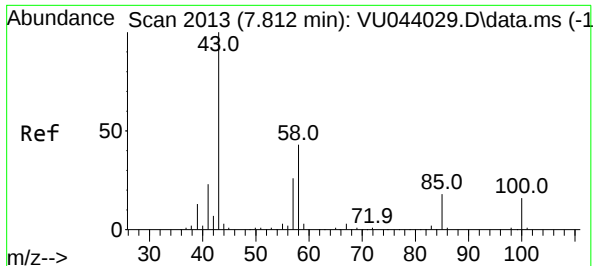
Tgt Ion: 73 Resp: 140  
Ion Ratio Lower Upper  
73 100  
87 0.0 19.0 28.6#  
71 0.0 9.4 14.2#



#41  
Tetrahydrofuran  
Concen: 0.05 ug/l  
RT: 5.076 min Scan# 1162  
Delta R.T. -0.006 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Tgt Ion: 42 Resp: 40  
Ion Ratio Lower Upper  
42 100  
72 0.0 36.6 55.0#  
71 0.0 25.9 38.9#

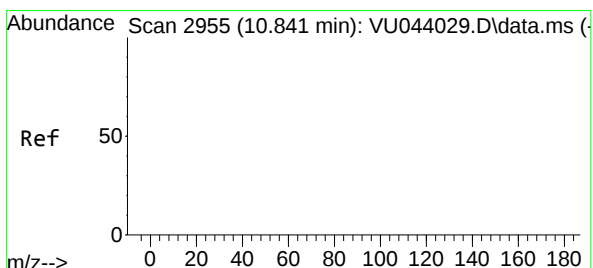
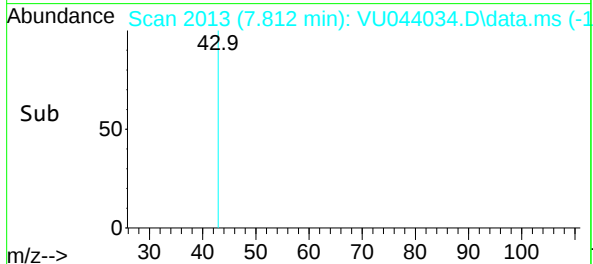
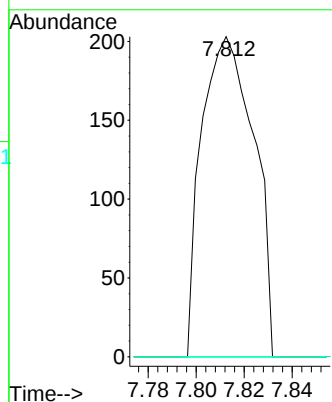
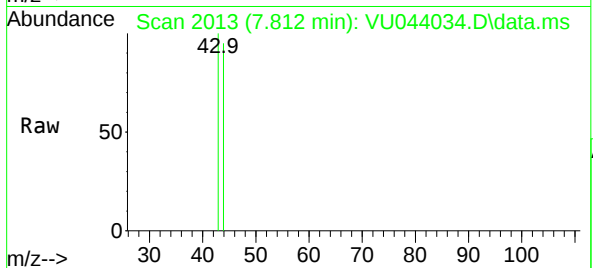




#45  
4-Methyl-2-Pentanone  
Concen: 0.10 ug/l  
RT: 7.812 min Scan# 2013  
Delta R.T. 0.000 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

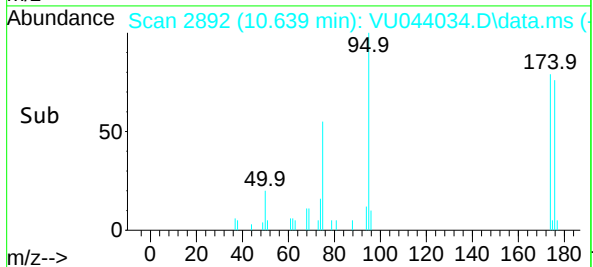
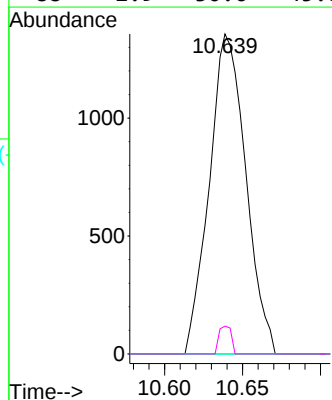
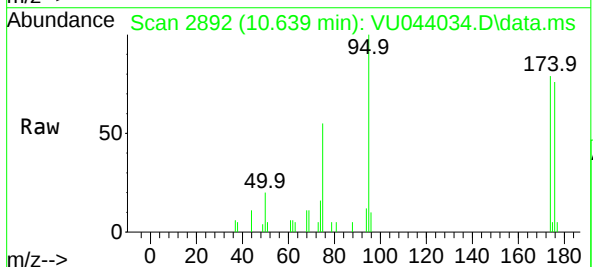
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

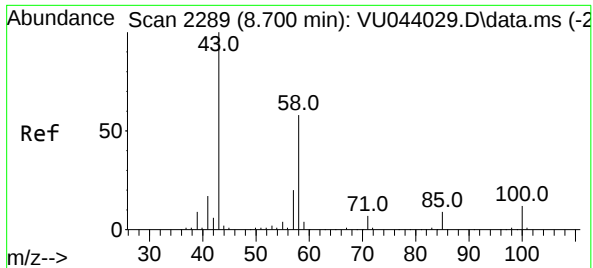
Tgt Ion: 43 Resp: 307  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.1 63.4#  
85 0.0 14.6 22.0#



#46  
t-1,4-Dichloro-2-butene  
Concen: 1.64 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.203 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Tgt Ion: 75 Resp: 2206  
Ion Ratio Lower Upper  
75 100  
53 0.0 61.9 92.9#  
89 0.0 39.4 59.2#  
88 2.9 30.6 45.8#

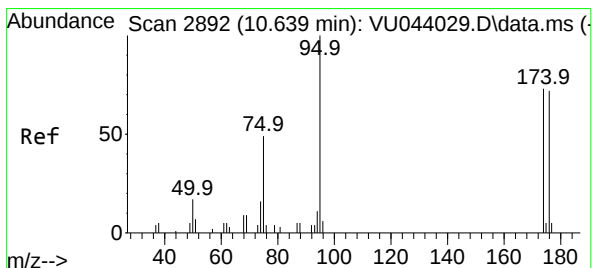
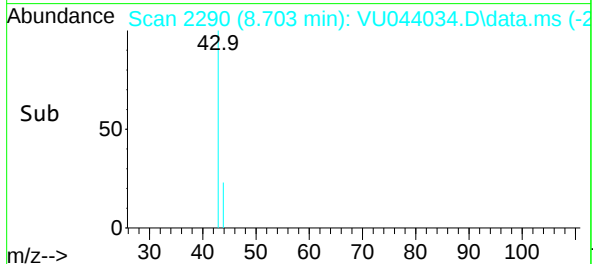
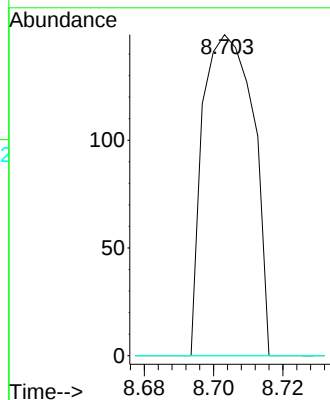
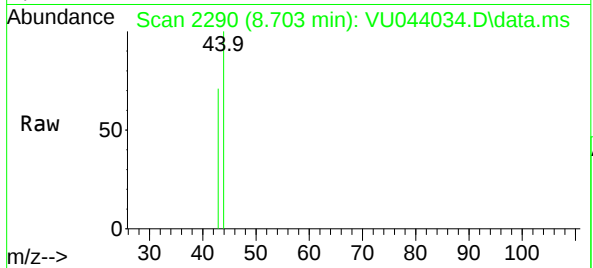




#54  
2-Hexanone  
Concen: 0.07 ug/l  
RT: 8.703 min Scan# 2290  
Delta R.T. 0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

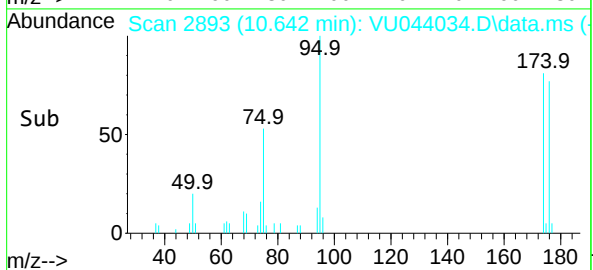
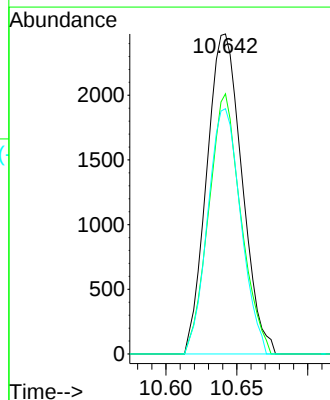
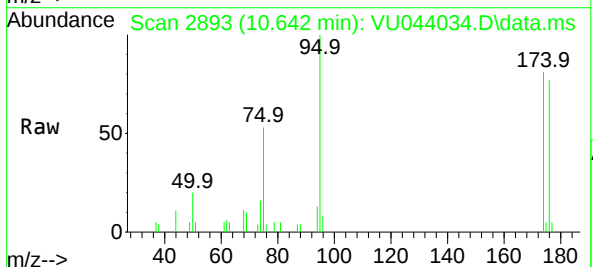
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

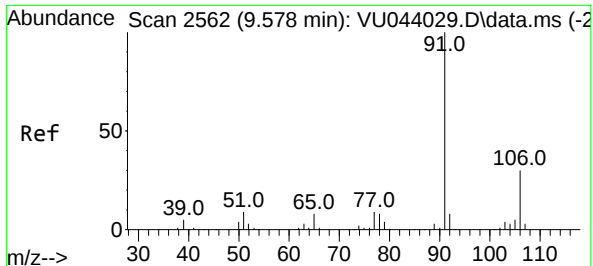
Tgt Ion: 43 Resp: 150  
Ion Ratio Lower Upper  
43 100  
58 0.0 38.3 78.3#  
57 0.0 0.0 39.4



#57  
4-Bromofluorobenzene  
Concen: 0.73 ug/l  
RT: 10.642 min Scan# 2893  
Delta R.T. 0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Tgt Ion: 95 Resp: 4270  
Ion Ratio Lower Upper  
95 100  
174 74.4 59.1 88.7  
176 72.0 56.4 84.6





#63

Ethyl Benzene

Concen: 0.50 ug/l

RT: 9.697 min Scan# 2599

Delta R.T. 0.119 min

Lab File: VU044034.D

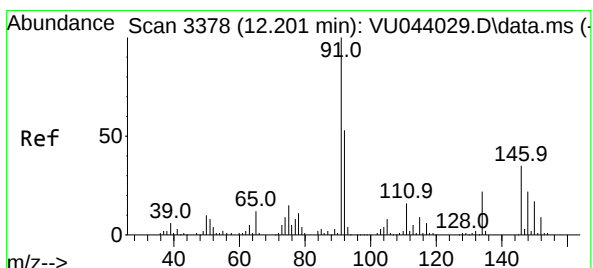
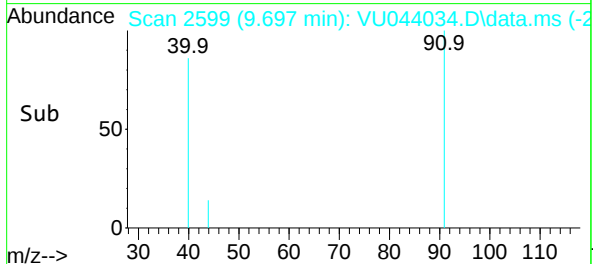
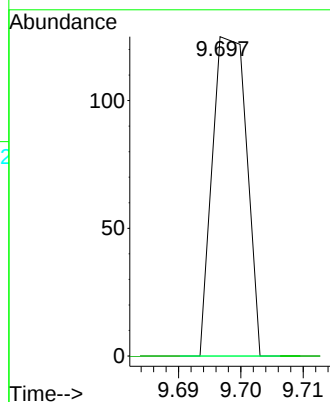
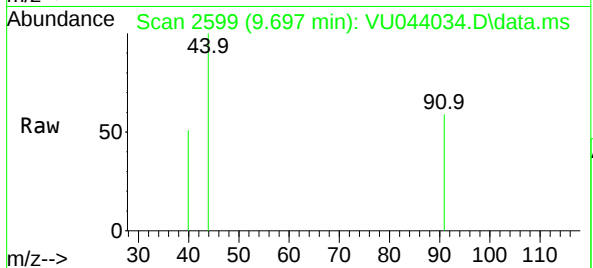
Acq: 03 Jun 2021 12:16

Tgt Ion: 91 Resp: 48

Ion Ratio Lower Upper

91 100

106 0.0 24.2 36.4#



#68

1,2-Dichlorobenzene-d4

Concen: 0.70 ug/l

RT: 12.201 min Scan# 3378

Delta R.T. 0.000 min

Lab File: VU044034.D

Acq: 03 Jun 2021 12:16

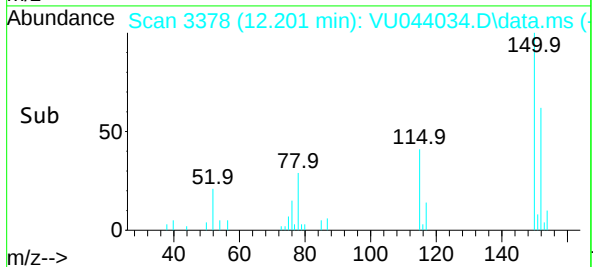
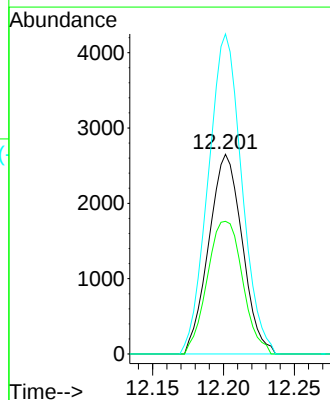
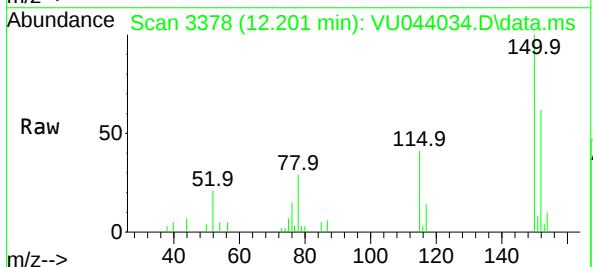
Tgt Ion: 152 Resp: 4366

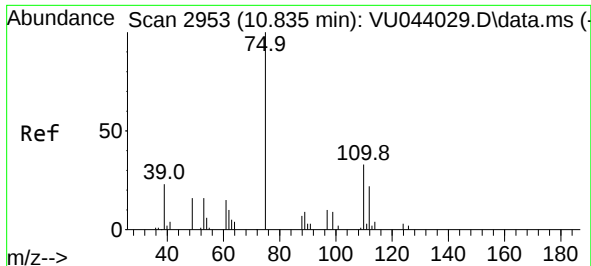
Ion Ratio Lower Upper

152 100

115 70.2 0.0 320.6

150 160.4 0.0 687.2



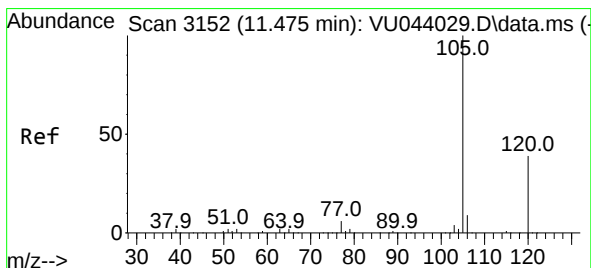
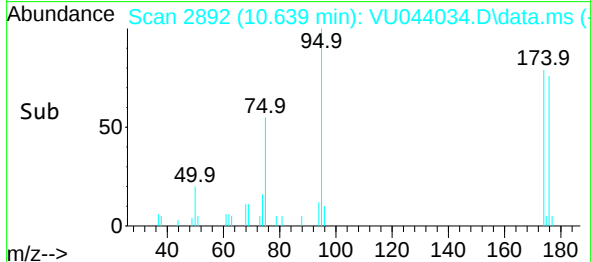
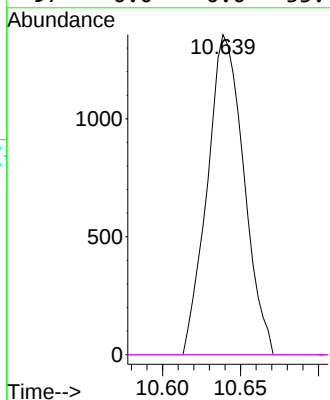
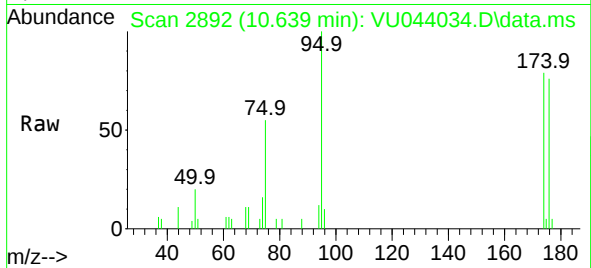


#71  
1,2,3-Trichloropropane  
Concen: 0.57 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.196 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

Tgt Ion: 75 Resp: 2206

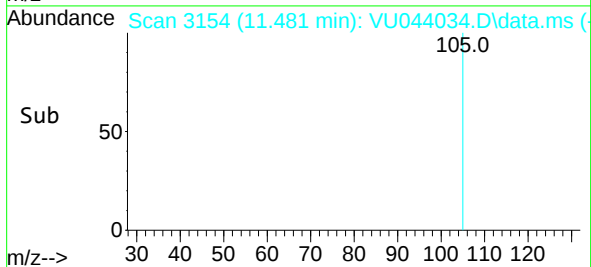
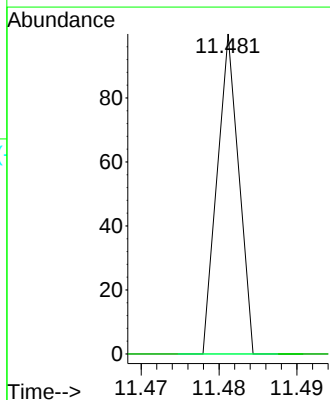
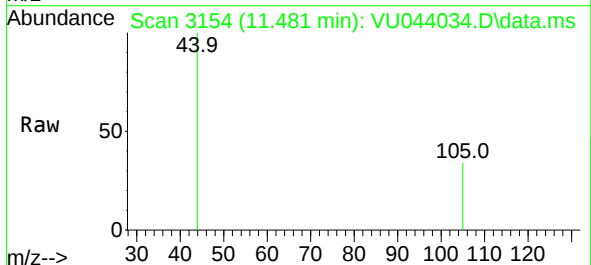
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 0.0   | 0.0   | 96.0  |
| 110 | 0.0   | 0.0   | 66.2  |
| 97  | 0.0   | 0.0   | 33.4  |

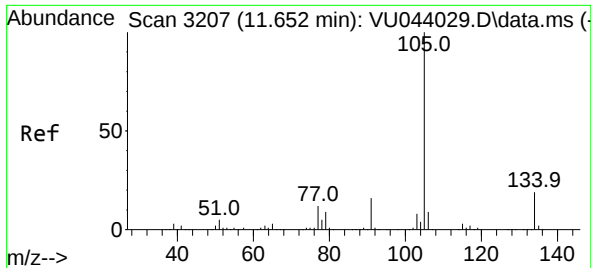


#78  
1,2,4-Trimethylbenzene  
Concen: 0.44 ug/l  
RT: 11.481 min Scan# 3154  
Delta R.T. 0.006 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

Tgt Ion: 105 Resp: 19

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 0.0   | 22.4  | 67.0# |

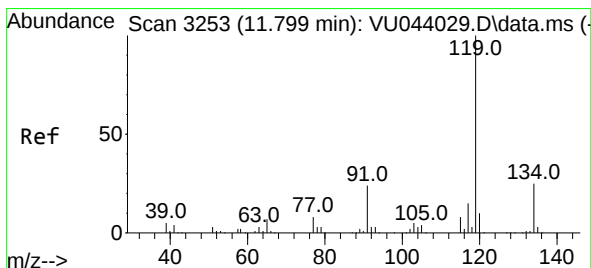
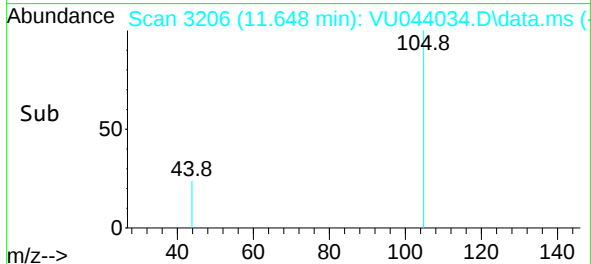
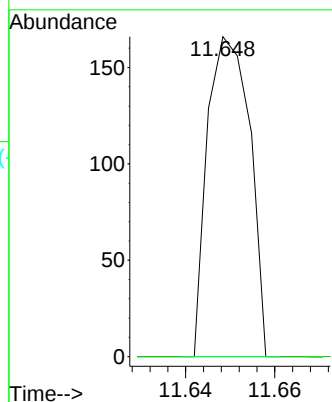
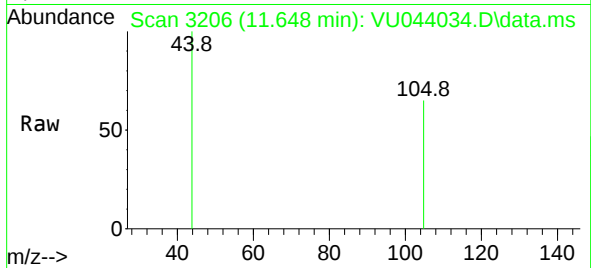




#79  
 sec-Butylbenzene  
 Concen: 0.39 ug/l  
 RT: 11.648 min Scan# 3206  
 Delta R.T. -0.004 min  
 Lab File: VU044034.D  
 Acq: 03 Jun 2021 12:16

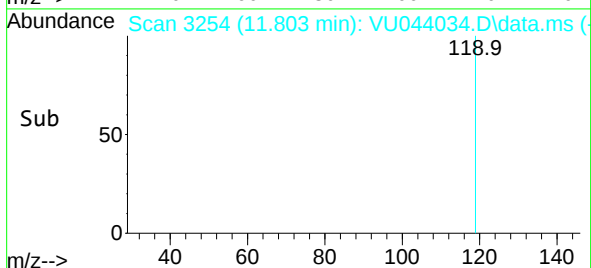
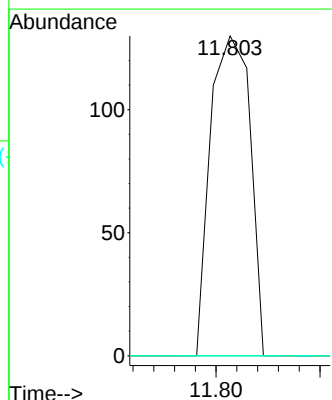
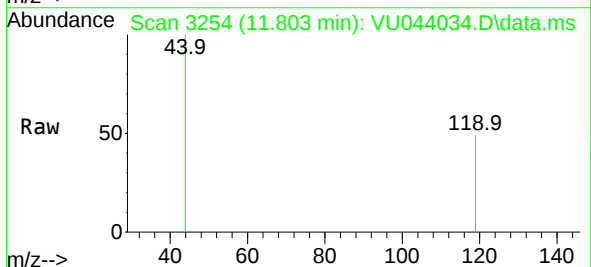
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0603WBL01

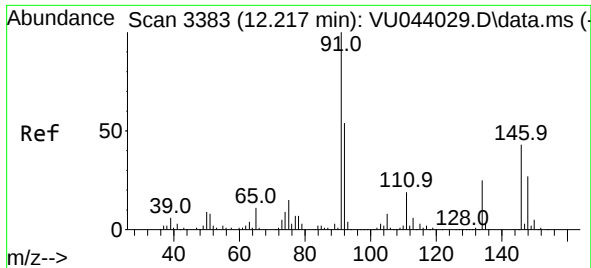
Tgt Ion:105 Resp: 109  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 15.2 22.8#



#81  
 p-Isopropyltoluene  
 Concen: 0.46 ug/l  
 RT: 11.803 min Scan# 3254  
 Delta R.T. 0.004 min  
 Lab File: VU044034.D  
 Acq: 03 Jun 2021 12:16

Tgt Ion:119 Resp: 69  
 Ion Ratio Lower Upper  
 119 100  
 134 0.0 20.6 30.8#  
 91 0.0 19.2 28.8#

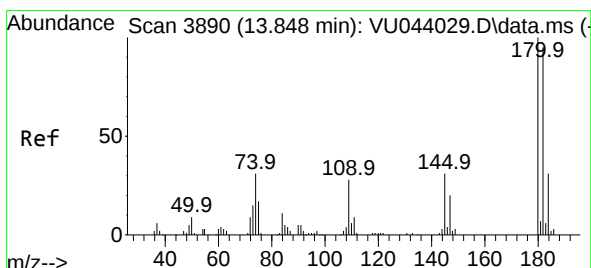
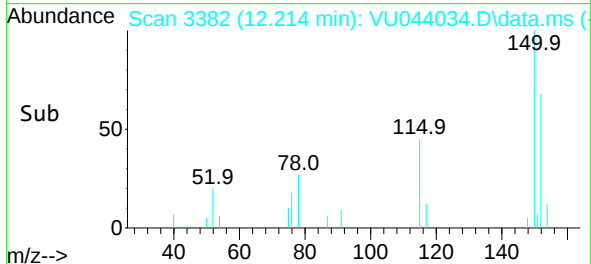
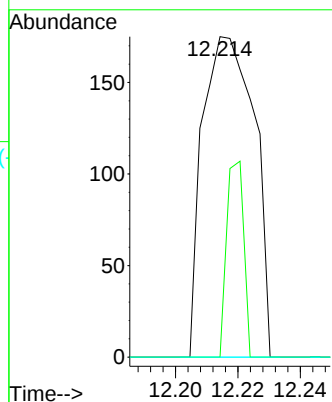
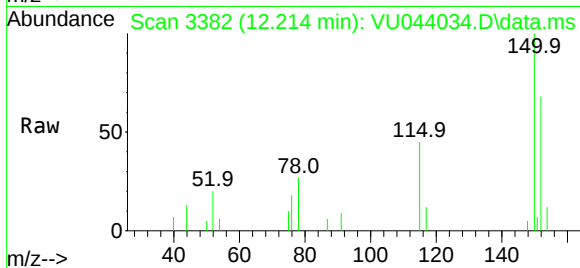




#84  
n-Butylbenzene  
Concen: 0.49 ug/l  
RT: 12.214 min Scan# 3382  
Delta R.T. -0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

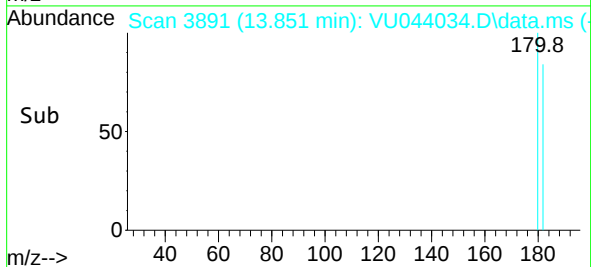
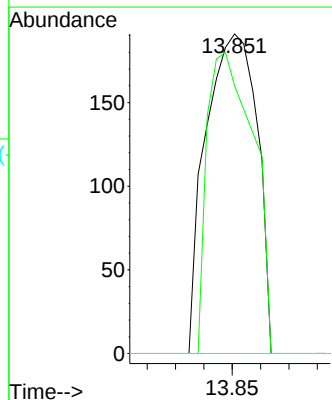
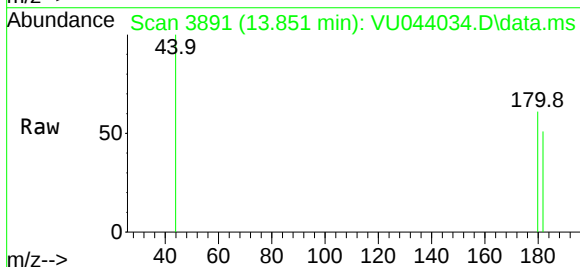
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01

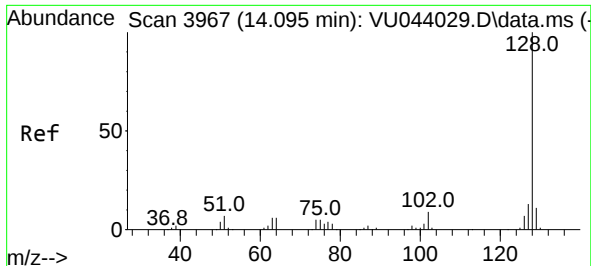
Tgt Ion: 91 Resp: 201  
Ion Ratio Lower Upper  
91 100  
92 20.4 43.0 64.6#  
134 0.0 19.3 28.9#



#87  
1,2,4-Trichlorobenzene  
Concen: 0.04 ug/l  
RT: 13.851 min Scan# 3891  
Delta R.T. 0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

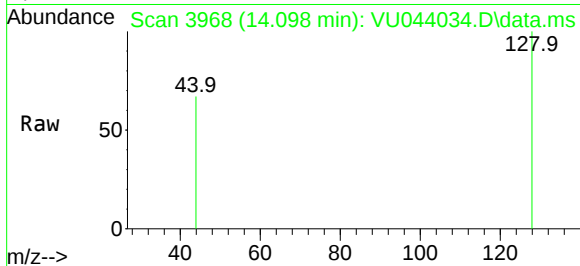
Tgt Ion: 180 Resp: 239  
Ion Ratio Lower Upper  
180 100  
182 84.9 75.4 113.2  
145 0.0 24.7 37.1#



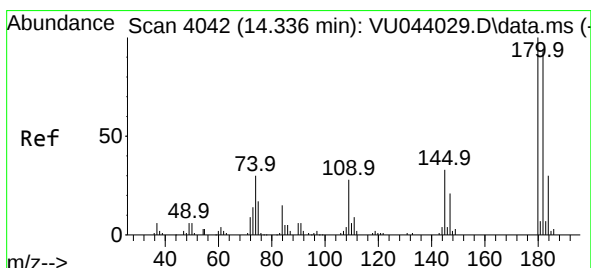
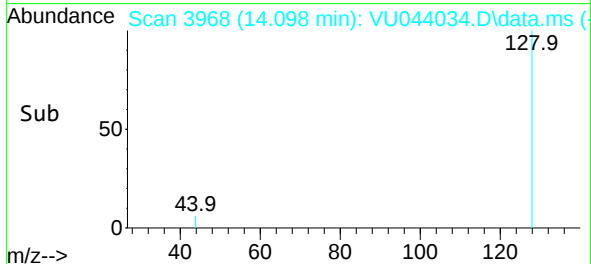
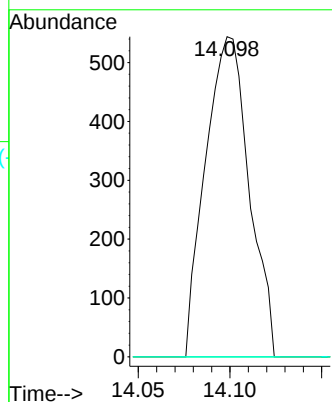


#89  
Naphthalene  
Concen: 1.07 ug/l  
RT: 14.098 min Scan# 3968  
Delta R.T. 0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16

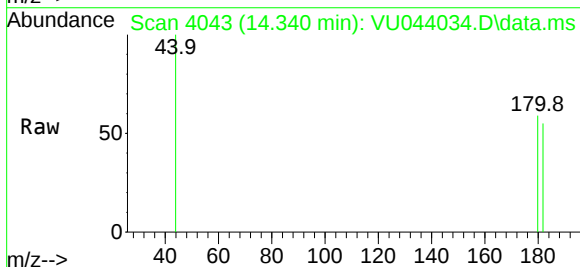
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0603WBL01



Tgt Ion:128 Resp: 902  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.4#  
129 0.0 8.6 12.8#



#90  
1,2,3-Trichlorobenzene  
Concen: 0.05 ug/l  
RT: 14.340 min Scan# 4043  
Delta R.T. 0.003 min  
Lab File: VU044034.D  
Acq: 03 Jun 2021 12:16



Tgt Ion:180 Resp: 293  
Ion Ratio Lower Upper  
180 100  
182 78.2 75.2 112.8  
145 0.0 26.9 40.3#

