

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092521\  
 Data File : VU044847.D  
 Acq On : 25 Sep 2021 19:18  
 Operator : SY/MD  
 Sample : M3859-01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 1027-MW-01

Quant Time: Sep 27 01:34:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092421W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 25 09:30:46 2021  
 Response via : Initial Calibration

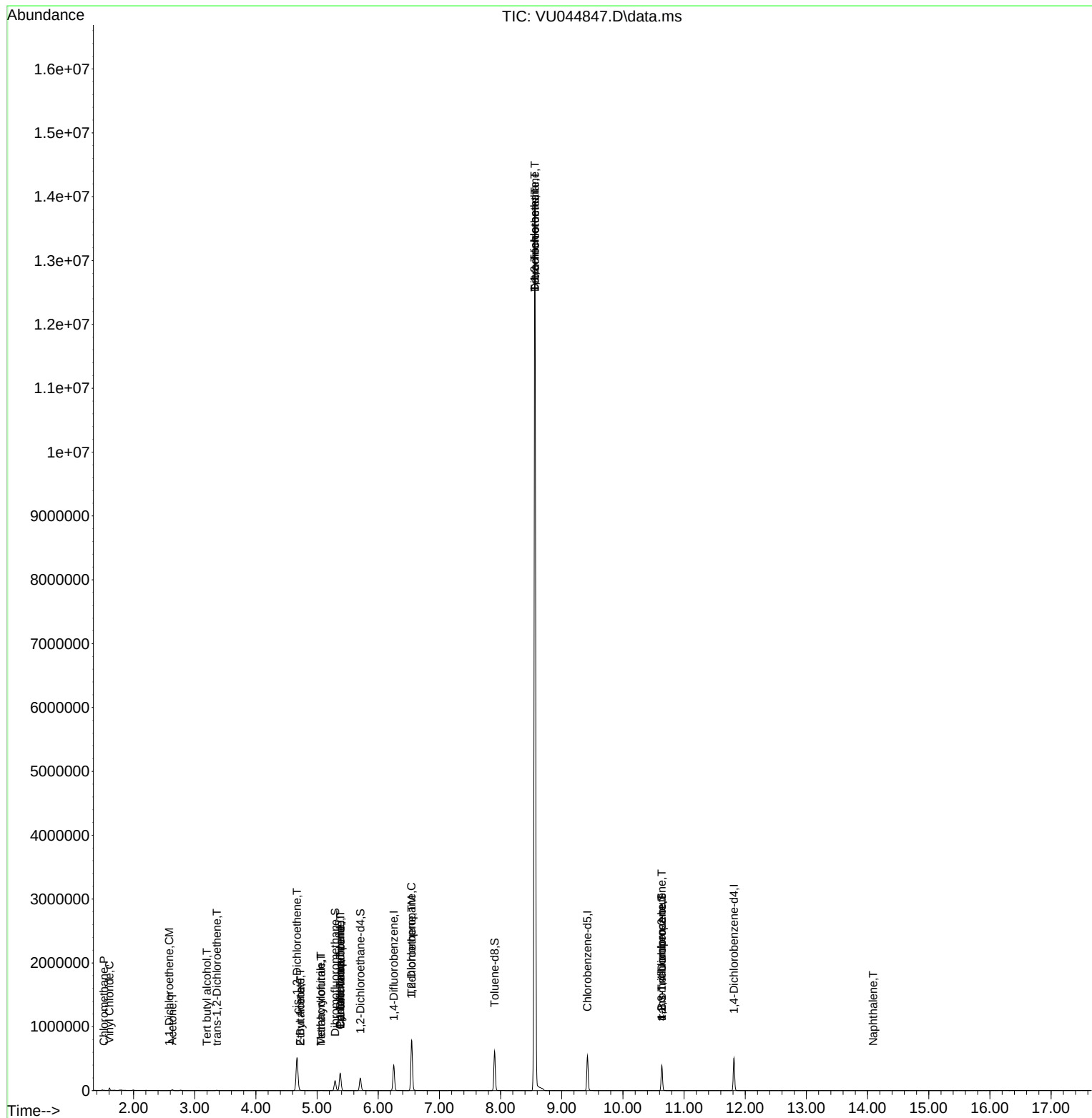
| Compound                      | R.T.   | QIon | Response | Conc      | Units    | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|----------|----------|
| -----                         |        |      |          |           |          |          |
| Internal Standards            |        |      |          |           |          |          |
| 1) Pentafluorobenzene         | 5.378  | 168  | 172596   | 50.000    | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.253  | 114  | 300396   | 50.000    | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 9.420  | 117  | 280500   | 50.000    | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.815 | 152  | 121956   | 50.000    | ug/l     | 0.00     |
| System Monitoring Compounds   |        |      |          |           |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.706  | 65   | 145983   | 48.463    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 96.920%  |          |
| 35) Dibromofluoromethane      | 5.295  | 113  | 99142    | 48.109    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 96.220%  |          |
| 50) Toluene-d8                | 7.902  | 98   | 393068   | 50.503    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 101.000% |          |
| 62) 4-Bromofluorobenzene      | 10.635 | 95   | 126893   | 43.896    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 87.800%  |          |
| Target Compounds              |        |      |          |           |          |          |
|                               |        |      |          |           |          | Qvalue   |
| 3) Chloromethane              | 1.517  | 50   | 731      | 0.233     | ug/l     | 93       |
| 4) Vinyl Chloride             | 1.607  | 62   | 21210    | 7.244     | ug/l     | 100      |
| 5) Bromomethane               | 1.858  | 94   | 320      | Below Cal |          | 95       |
| 6) Chloroethane               | 1.932  | 64   | 470      | Below Cal |          | 91       |
| 11) Tert butyl alcohol        | 3.198  | 59   | 1357     | 1.543     | ug/l #   | 72       |
| 12) 1,1-Dichloroethene        | 2.584  | 96   | 505      | 0.243     | ug/l     | 99       |
| 16) Acetone                   | 2.633  | 43   | 16988    | 9.998     | ug/l     | 100      |
| 21) trans-1,2-Dichloroethene  | 3.362  | 96   | 2619     | 1.177     | ug/l     | 89       |
| 25) 2-Butanone                | 4.726  | 43   | 1763     | 0.684     | ug/l #   | 88       |
| 27) cis-1,2-Dichloroethene    | 4.671  | 96   | 258284   | 95.444    | ug/l     | 90       |
| 29) Tetrahydrofuran           | 5.067  | 42   | 1254     | 0.773     | ug/l #   | 83       |
| 31) Cyclohexane               | 5.375  | 56   | 5680     | 1.313     | ug/l #   | 8        |
| 36) 1,1-Dichloropropene       | 5.378  | 75   | 16842    | 5.284     | ug/l #   | 49       |
| 37) Ethyl Acetate             | 4.726  | 43   | 1763     | 0.377     | ug/l #   | 69       |
| 38) Carbon Tetrachloride      | 5.378  | 117  | 18671    | 6.553     | ug/l #   | 15       |
| 41) Methacrylonitrile         | 5.063  | 41   | 882      | 0.378     | ug/l #   | 47       |
| 44) Trichloroethene           | 6.546  | 130  | 248141   | 106.249   | ug/l     | 96       |
| 45) 1,2-Dichloropropane       | 6.542  | 63   | 1272     | 0.484     | ug/l #   | 1        |
| 55) 1,1,2-Trichloroethane     | 8.558  | 97   | 27164    | 10.936    | ug/l #   | 1        |
| 60) Dibromochloromethane      | 8.562  | 129  | 2839438  | 1193.735  | ug/l #   | 10       |
| 64) Tetrachloroethene         | 8.562  | 164  | 2849676  | 1498.813  | ug/l     | 98       |
| 76) 1,2,3-Trichloropropane    | 10.635 | 75   | 71511    | 19.364    | ug/l #   | 41       |
| 81) trans-1,4-Dichloro-2-b... | 10.635 | 75   | 71511    | 62.728    | ug/l #   | 9        |
| 95) Naphthalene               | 14.092 | 128  | 151      | 0.959     | ug/l #   | 69       |
| -----                         |        |      |          |           |          |          |

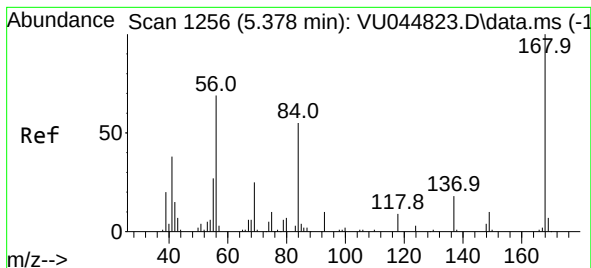
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.378 min Scan# 1256

Delta R.T. 0.000 min

Lab File: VU044847.D

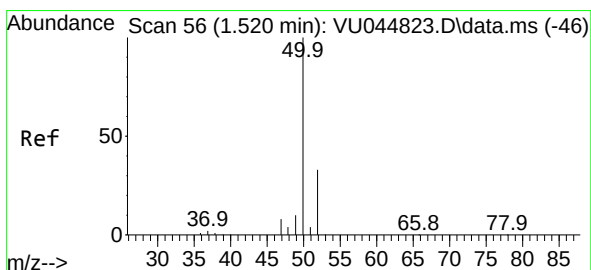
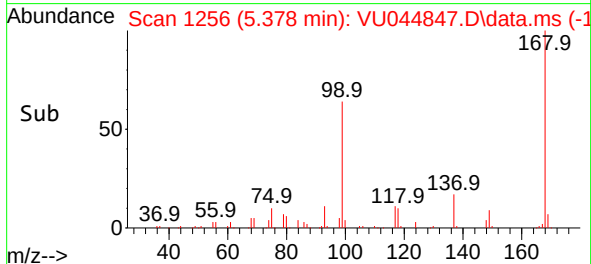
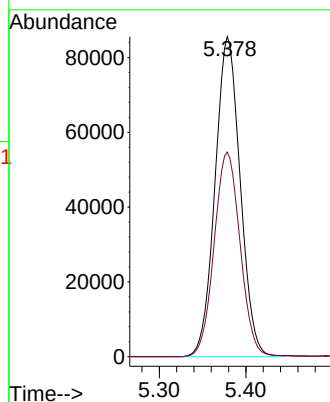
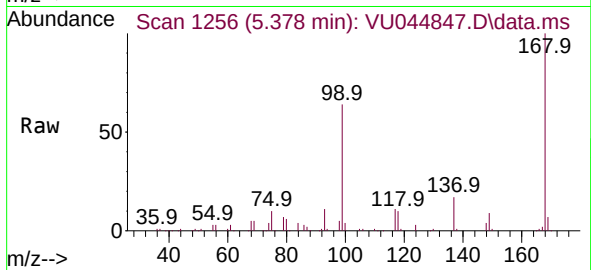
Acq: 25 Sep 2021 19:18

Tgt Ion:168 Resp: 172596

Ion Ratio Lower Upper

168 100

99 63.9 51.4 77.0



#3

Chloromethane

Concen: 0.233 ug/l

RT: 1.517 min Scan# 55

Delta R.T. -0.003 min

Lab File: VU044847.D

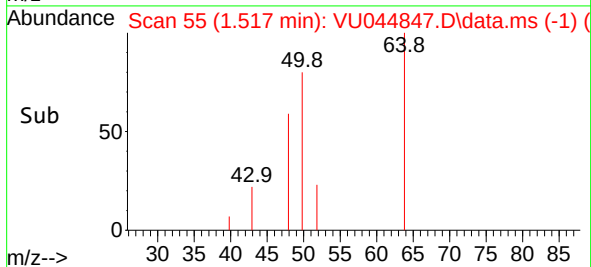
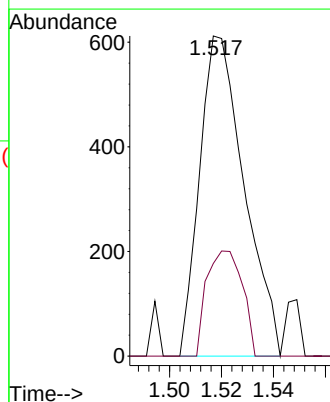
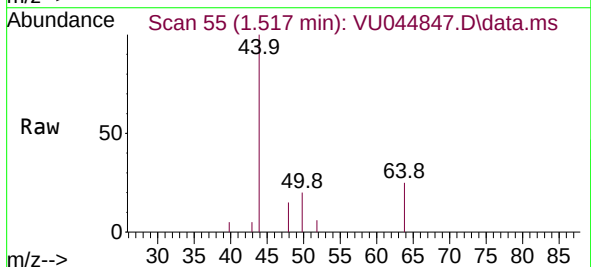
Acq: 25 Sep 2021 19:18

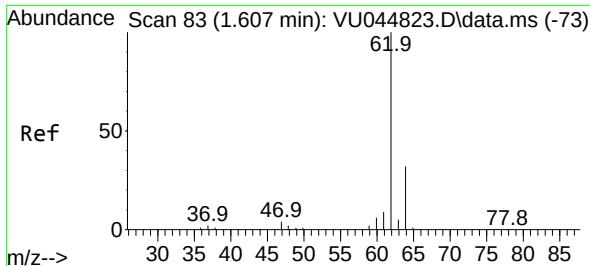
Tgt Ion: 50 Resp: 731

Ion Ratio Lower Upper

50 100

52 28.9 26.3 39.5

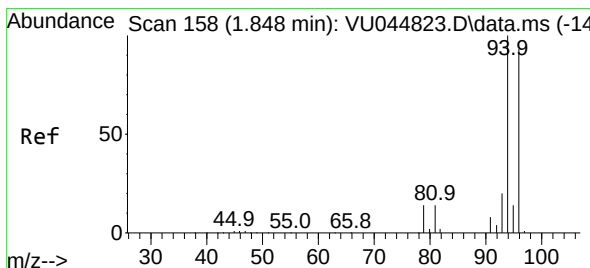
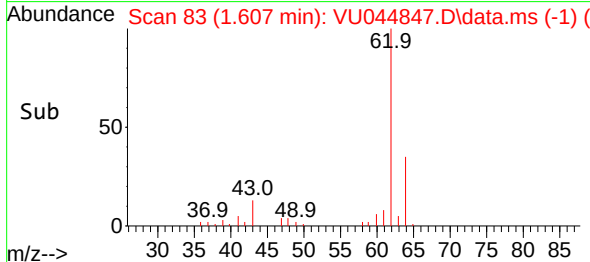
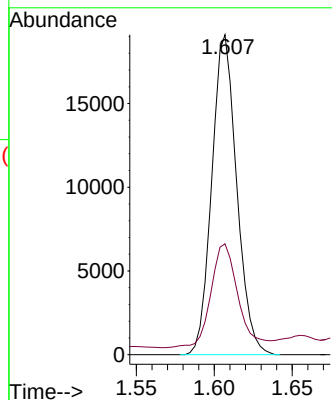
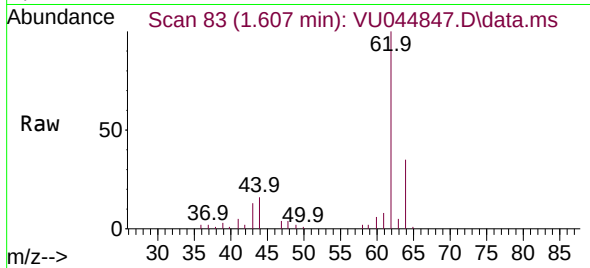




#4  
 Vinyl Chloride  
 Concen: 7.244 ug/l  
 RT: 1.607 min Scan# 83  
 Delta R.T. -0.000 min  
 Lab File: VU044847.D  
 Acq: 25 Sep 2021 19:18

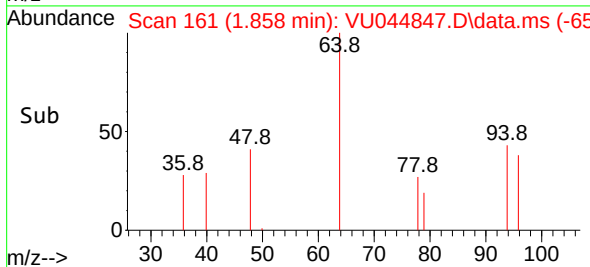
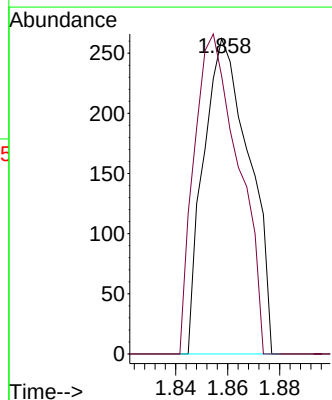
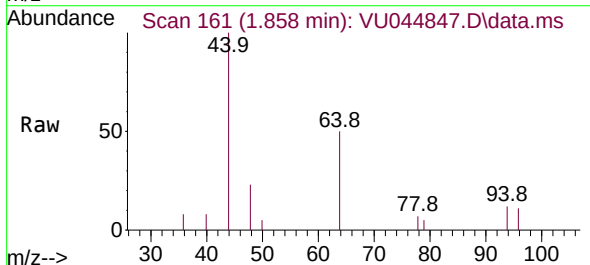
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 1027-MW-01

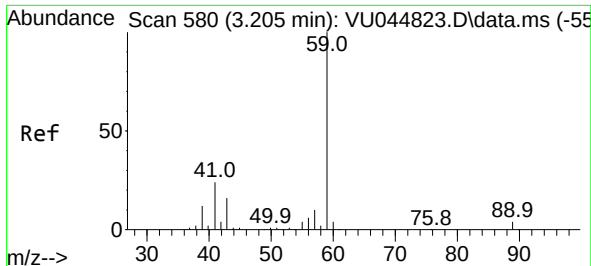
Tgt Ion: 62 Resp: 21210  
 Ion Ratio Lower Upper  
 62 100  
 64 31.9 25.6 38.4



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.858 min Scan# 161  
 Delta R.T. 0.010 min  
 Lab File: VU044847.D  
 Acq: 25 Sep 2021 19:18

Tgt Ion: 94 Resp: 320  
 Ion Ratio Lower Upper  
 94 100  
 96 88.2 74.5 111.7

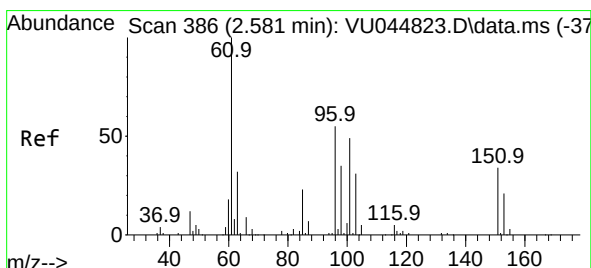
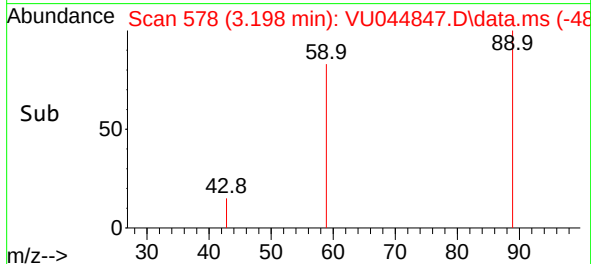
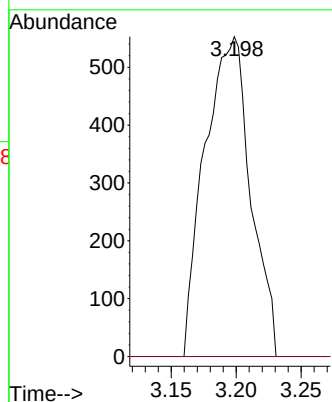
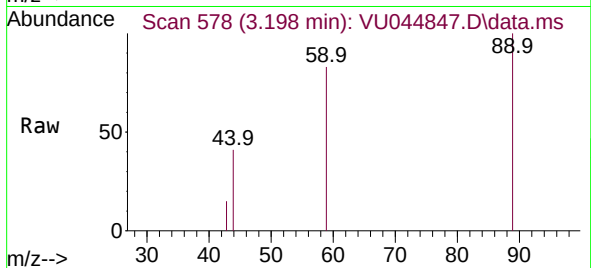




#11  
Tert butyl alcohol  
Concen: 1.543 ug/l  
RT: 3.198 min Scan# 578  
Delta R.T. -0.007 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

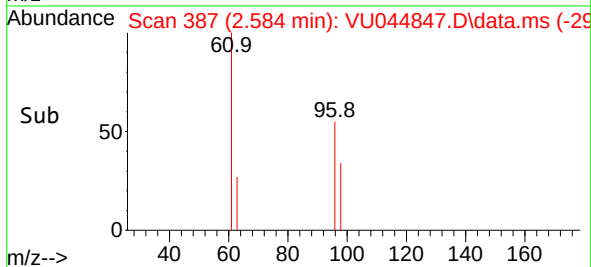
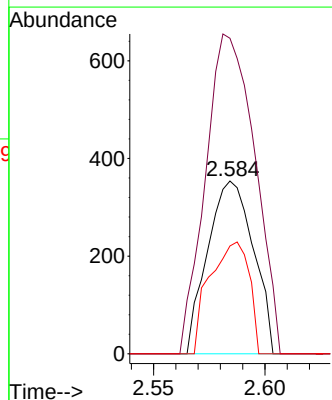
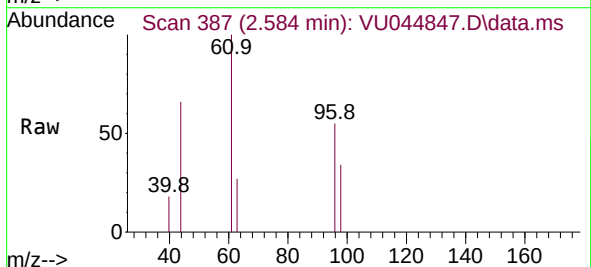
Instrument :  
MSVOA\_U  
ClientSampleId :  
1027-MW-01

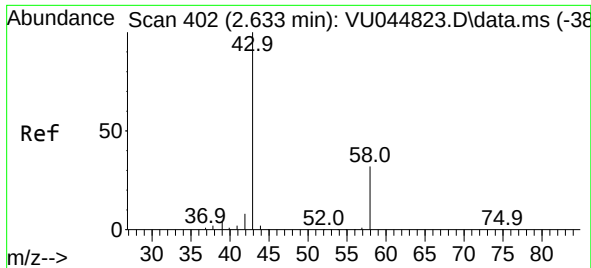
Tgt Ion: 59 Resp: 1357  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#12  
1,1-Dichloroethene  
Concen: 0.243 ug/l  
RT: 2.584 min Scan# 387  
Delta R.T. 0.003 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

Tgt Ion: 96 Resp: 505  
Ion Ratio Lower Upper  
96 100  
61 182.5 145.4 218.0  
98 62.4 50.9 76.3

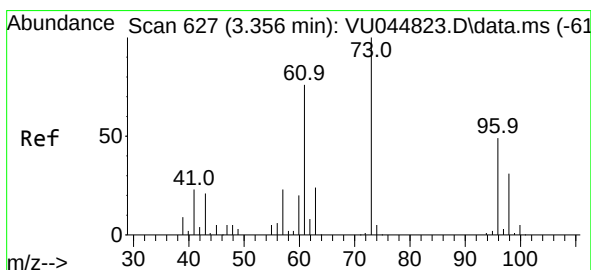
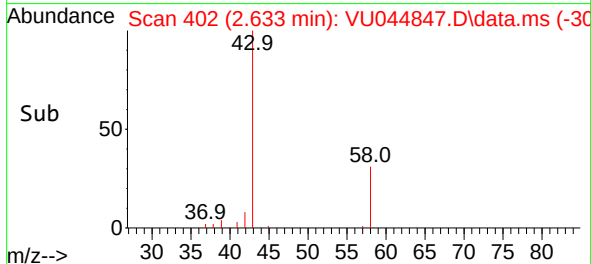
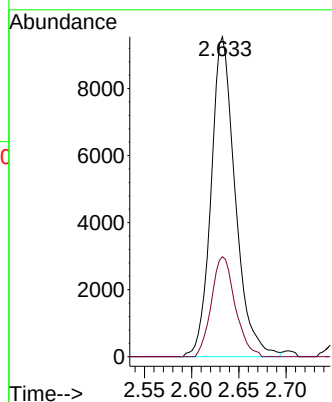
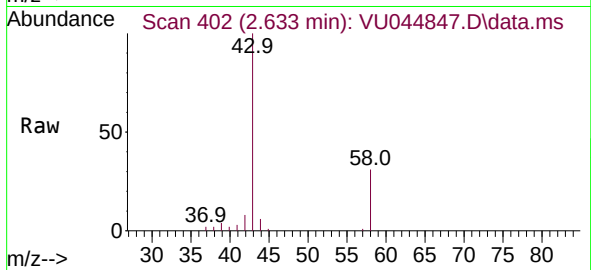




#16  
Acetone  
Concen: 9.998 ug/l  
RT: 2.633 min Scan# 402  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

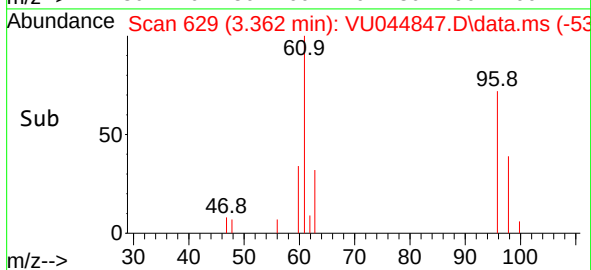
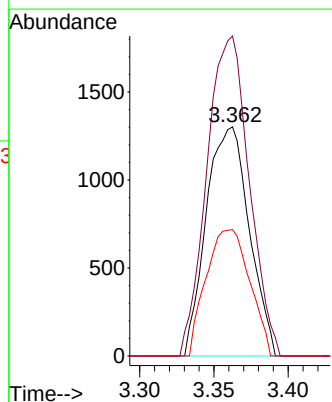
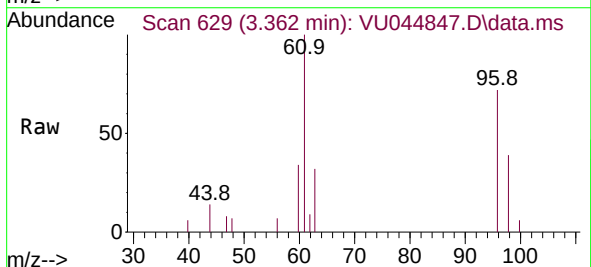
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MSVOA\_U  
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1027-MW-01

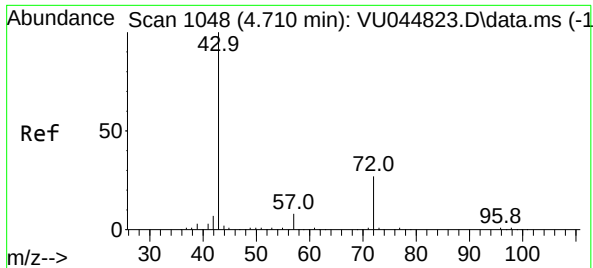
Tgt Ion: 43 Resp: 16988  
Ion Ratio Lower Upper  
43 100  
58 31.3 25.2 37.8



#21  
trans-1,2-Dichloroethene  
Concen: 1.177 ug/l  
RT: 3.362 min Scan# 629  
Delta R.T. 0.006 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

Tgt Ion: 96 Resp: 2619  
Ion Ratio Lower Upper  
96 100  
61 139.6 123.2 184.8  
98 55.1 51.0 76.6





#25

2-Butanone

Concen: 0.684 ug/l

RT: 4.726 min Scan# 1053

Delta R.T. 0.016 min

Lab File: VU044847.D

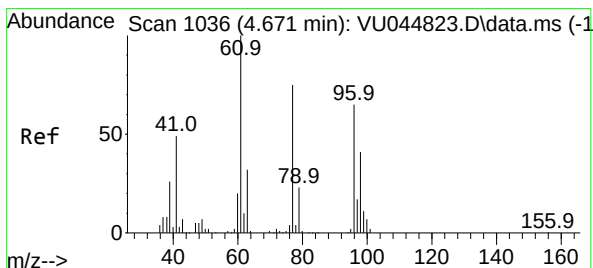
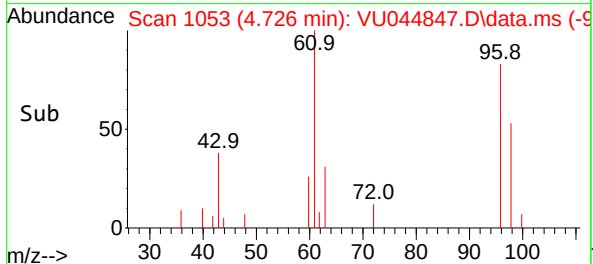
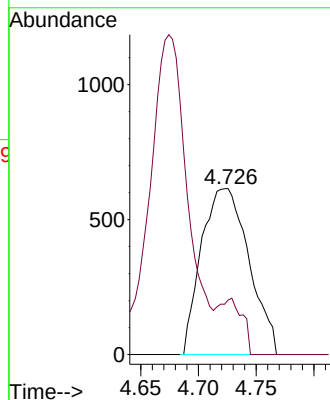
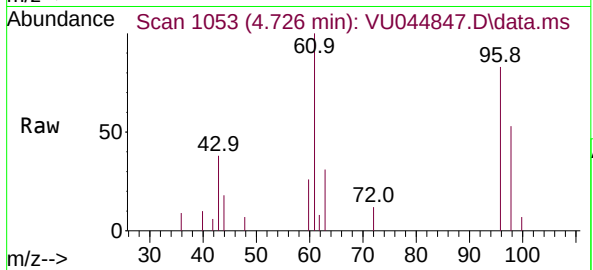
Acq: 25 Sep 2021 19:18

Tgt Ion: 43 Resp: 1763

Ion Ratio Lower Upper

43 100

72 32.8 21.3 31.9#



#27

cis-1,2-Dichloroethene

Concen: 95.444 ug/l

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU044847.D

Acq: 25 Sep 2021 19:18

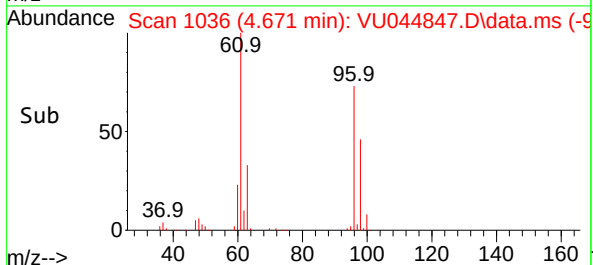
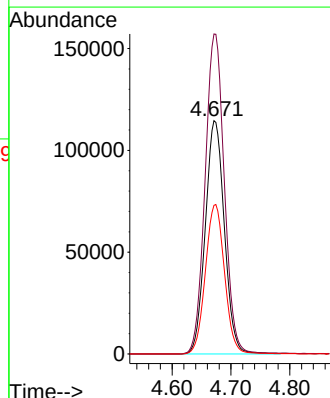
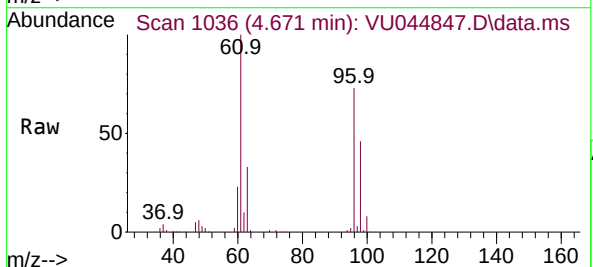
Tgt Ion: 96 Resp: 258284

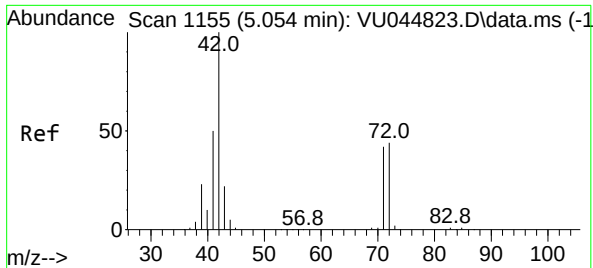
Ion Ratio Lower Upper

96 100

61 138.4 0.0 313.4

98 64.4 0.0 127.0





#29

Tetrahydrofuran

Concen: 0.773 ug/l

RT: 5.067 min Scan# 1159

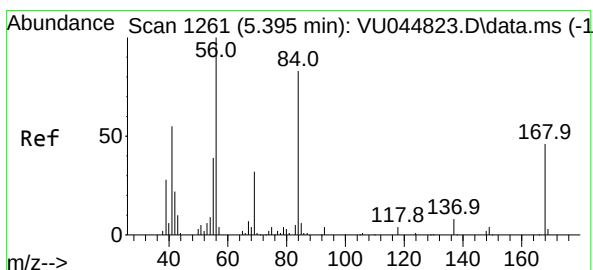
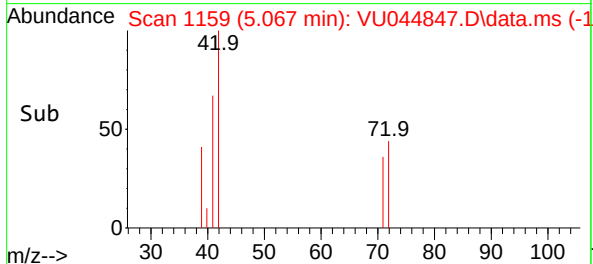
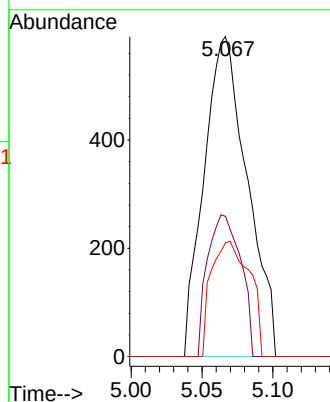
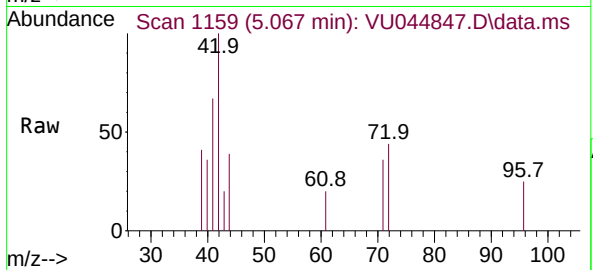
Delta R.T. 0.013 min

Lab File: VU044847.D

Acq: 25 Sep 2021 19:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1254  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 33.9  | 36.2  | 54.4# |
| 71       | 31.8  | 34.1  | 51.1# |

Instrument :  
MSVOA\_U  
ClientSampled :  
1027-MW-01



#31

Cyclohexane

Concen: 1.313 ug/l

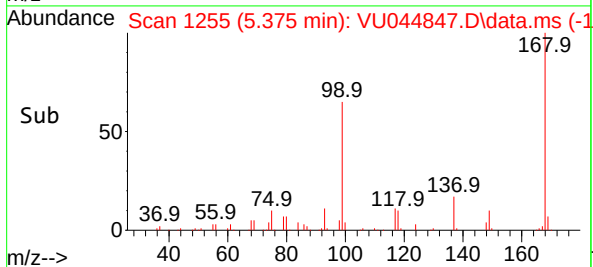
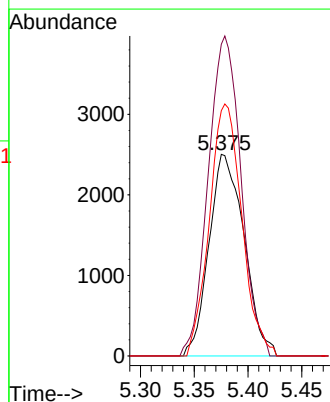
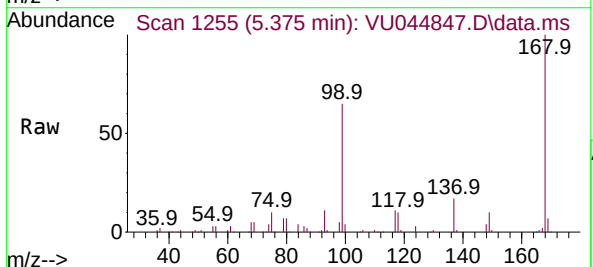
RT: 5.375 min Scan# 1255

Delta R.T. -0.019 min

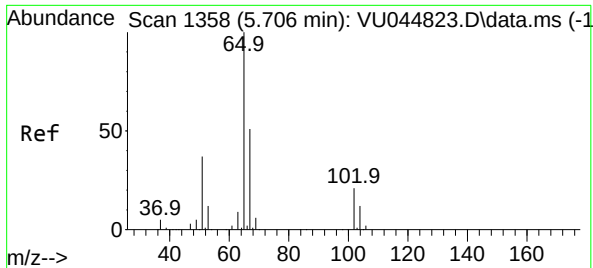
Lab File: VU044847.D

Acq: 25 Sep 2021 19:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5680  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 154.6 | 25.2  | 37.8# |
| 84       | 121.7 | 66.4  | 99.6# |



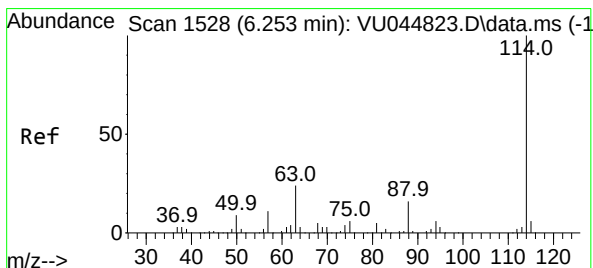
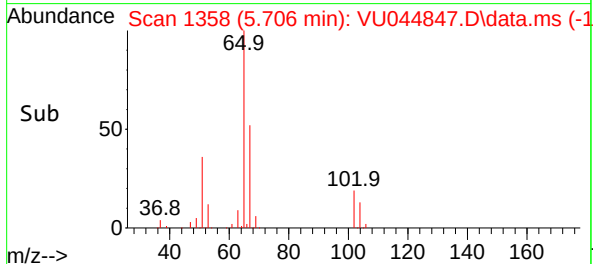
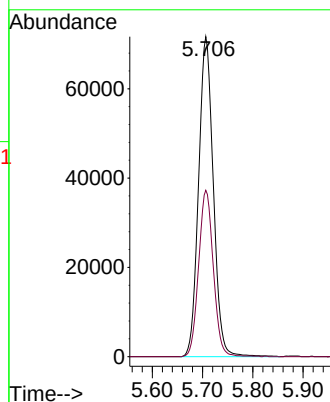
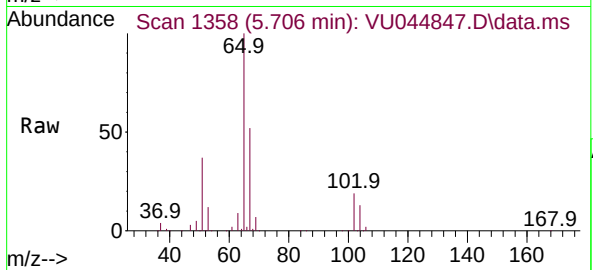




#33  
1,2-Dichloroethane-d4  
Concen: 48.463 ug/l  
RT: 5.706 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

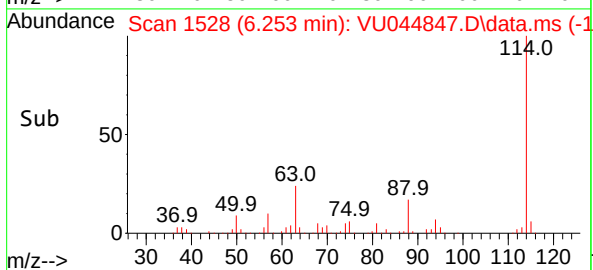
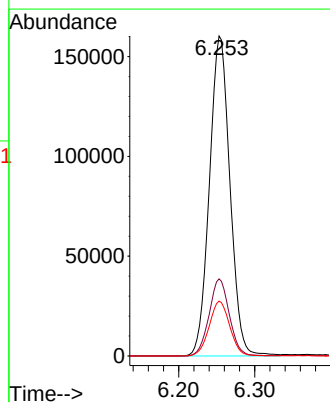
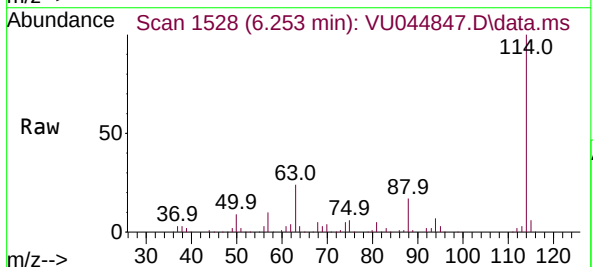
Instrument :  
MSVOA\_U  
ClientSampleId :  
1027-MW-01

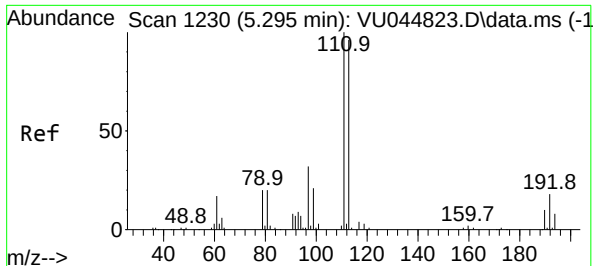
Tgt Ion: 65 Resp: 145983  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 104.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.253 min Scan# 1528  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

Tgt Ion: 114 Resp: 300396  
Ion Ratio Lower Upper  
114 100  
63 24.1 0.0 47.8  
88 17.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.109 ug/l

RT: 5.295 min Scan# 1230

Delta R.T. -0.000 min

Lab File: VU044847.D

Acq: 25 Sep 2021 19:18

Tgt Ion:113 Resp: 99142

Ion Ratio Lower Upper

113 100

111 103.1 84.1 126.1

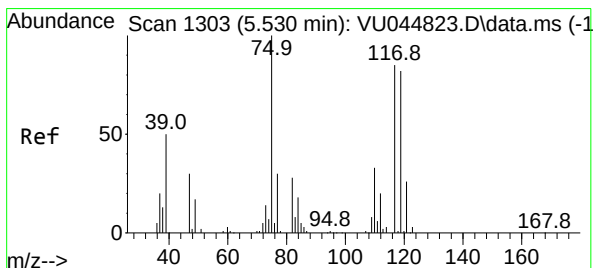
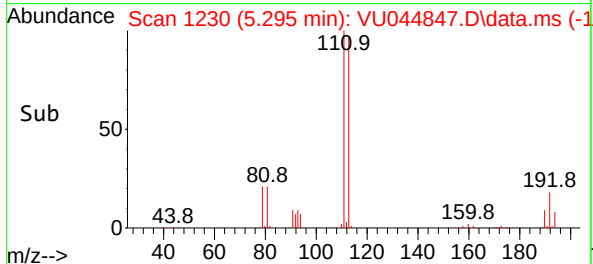
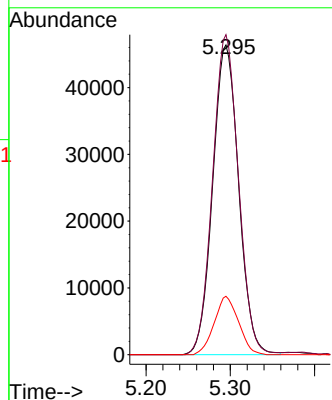
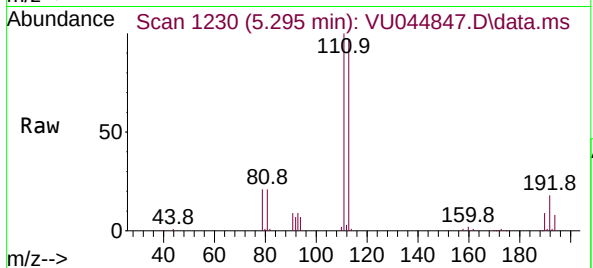
192 17.7 14.8 22.2

Instrument :

MSVOA\_U

ClientSampleId :

1027-MW-01



#36

1,1-Dichloropropene

Concen: 5.284 ug/l

RT: 5.378 min Scan# 1256

Delta R.T. -0.151 min

Lab File: VU044847.D

Acq: 25 Sep 2021 19:18

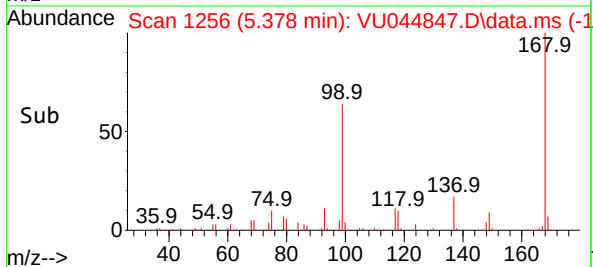
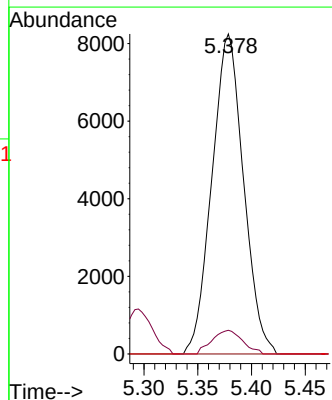
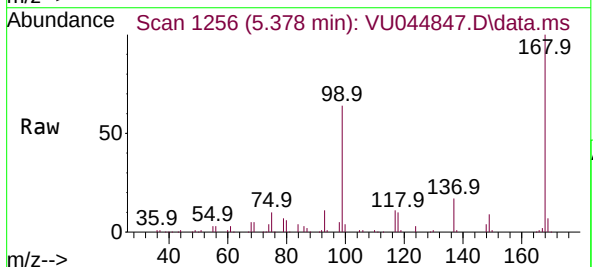
Tgt Ion: 75 Resp: 16842

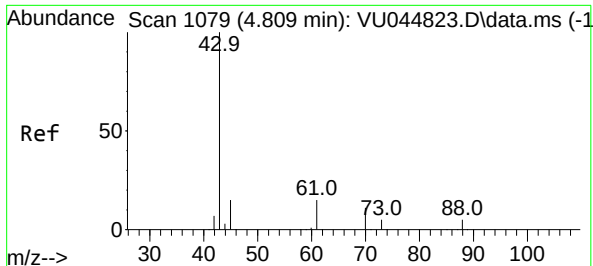
Ion Ratio Lower Upper

75 100

110 7.2 16.3 48.9#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.377 ug/l

RT: 4.726 min Scan# 1053

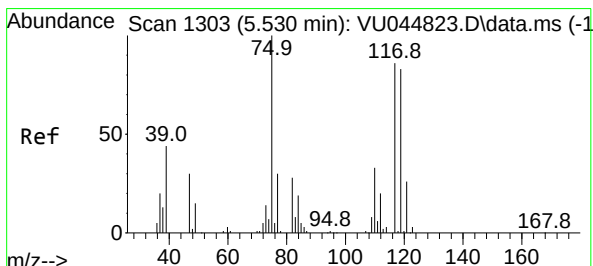
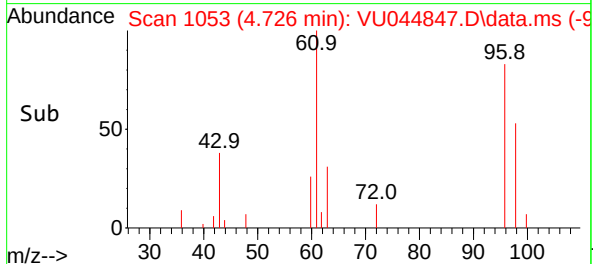
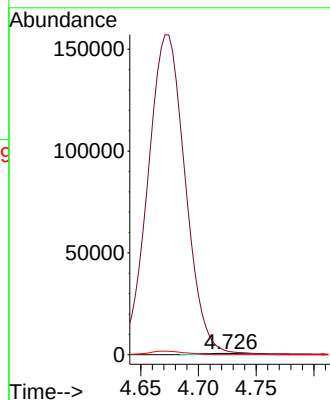
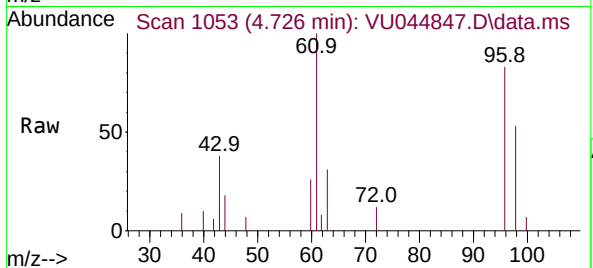
Delta R.T. -0.084 min

Lab File: VU044847.D

Acq: 25 Sep 2021 19:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1763  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 10.9  | 16.3# |
| 70       | 0.0   | 8.2   | 12.4# |

Instrument :  
MSVOA\_U  
ClientSampleId :  
1027-MW-01



#38

Carbon Tetrachloride

Concen: 6.553 ug/l

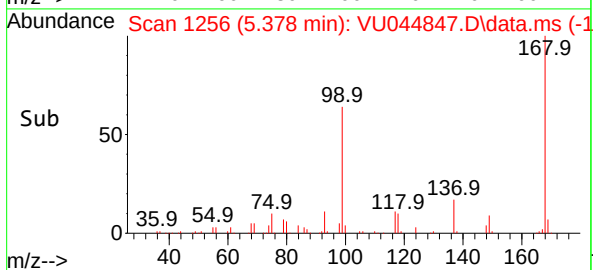
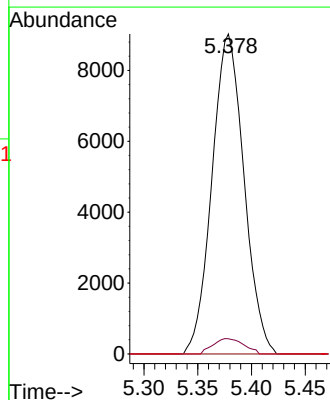
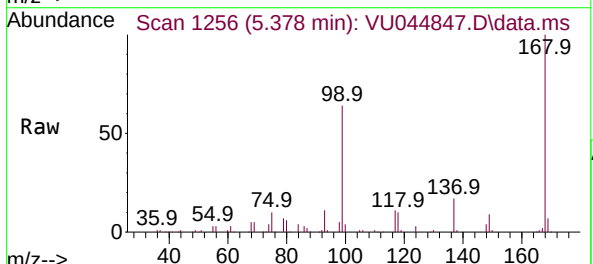
RT: 5.378 min Scan# 1256

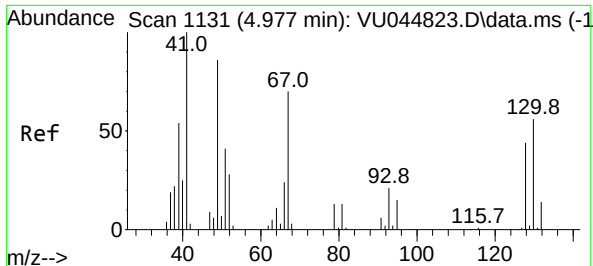
Delta R.T. -0.151 min

Lab File: VU044847.D

Acq: 25 Sep 2021 19:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 18671  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.8   | 77.4  | 116.2# |
| 121      | 0.0   | 24.5  | 36.7#  |

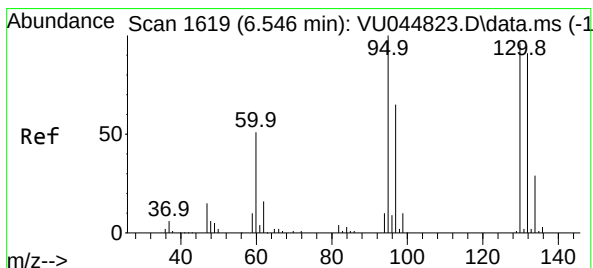
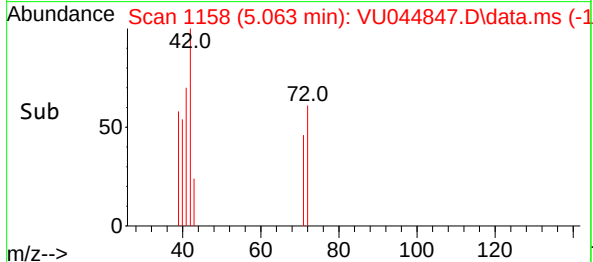
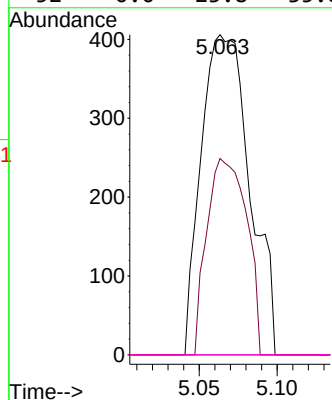
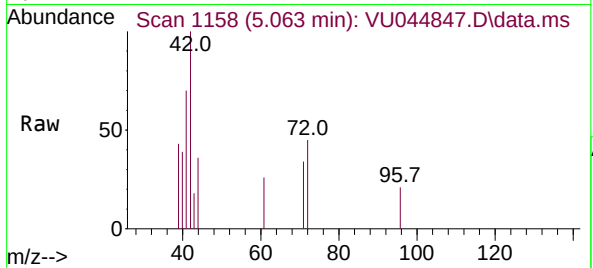




#41  
Methacrylonitrile  
Concen: 0.378 ug/l  
RT: 5.063 min Scan# 1158  
Delta R.T. 0.087 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

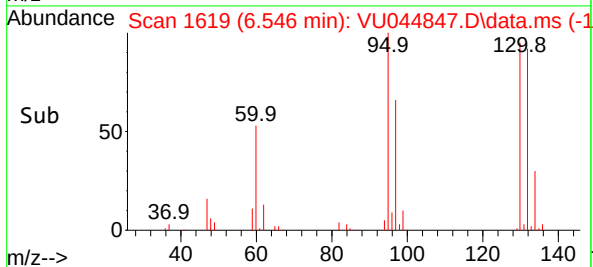
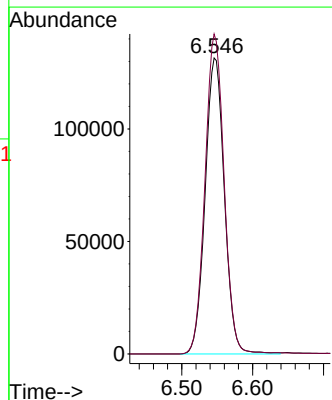
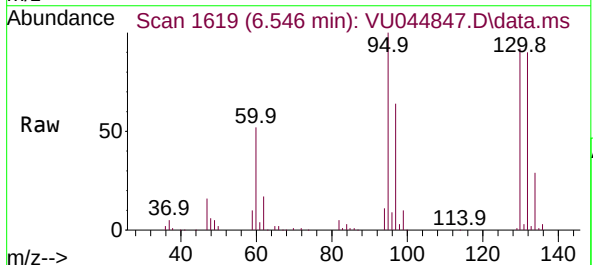
Instrument :  
MSVOA\_U  
ClientSampleId :  
1027-MW-01

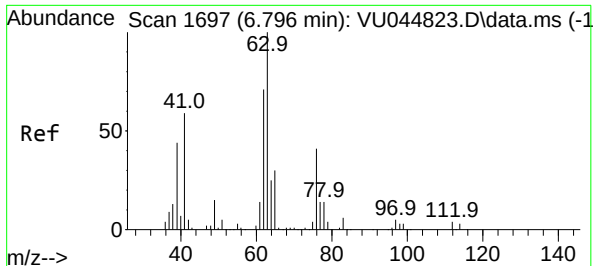
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 882   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 50.1     | 44.4 66.6   |
| 67 0.0      | 58.1 87.1#  |
| 52 0.0      | 23.8 35.8#  |



#44  
Trichloroethene  
Concen: 106.249 ug/l  
RT: 6.546 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

|              |              |
|--------------|--------------|
| Tgt Ion: 130 | Resp: 248141 |
| Ion Ratio    | Lower Upper  |
| 130 100      |              |
| 95 108.1     | 0.0 209.0    |



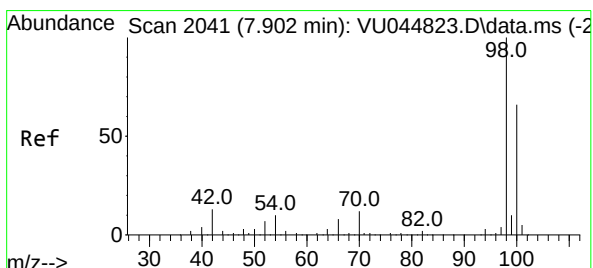
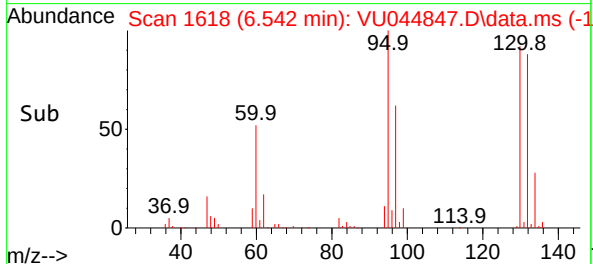
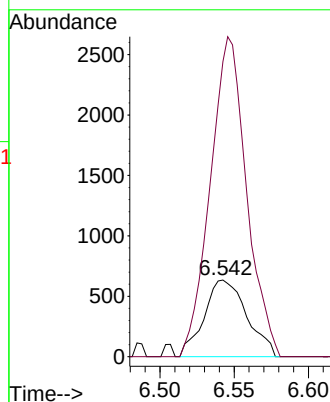
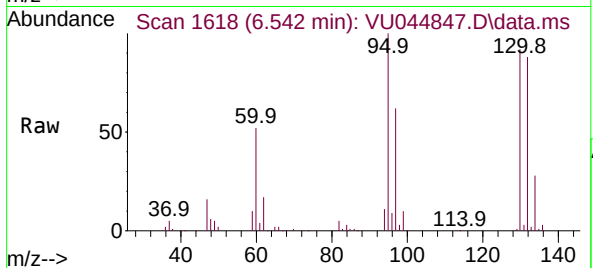


#45

1,2-Dichloropropane  
Concen: 0.484 ug/l  
RT: 6.542 min Scan# 1618  
Delta R.T. -0.254 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

Instrument :  
MSVOA\_U  
ClientSampled :  
1027-MW-01

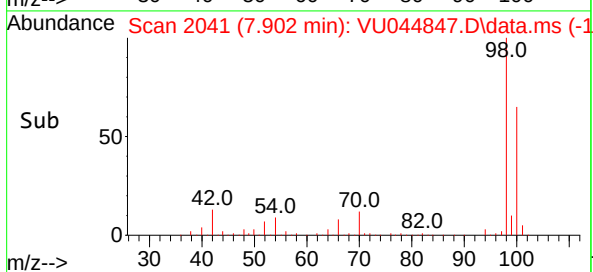
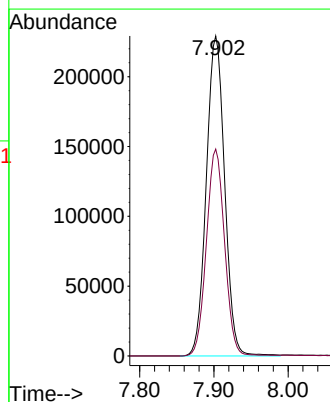
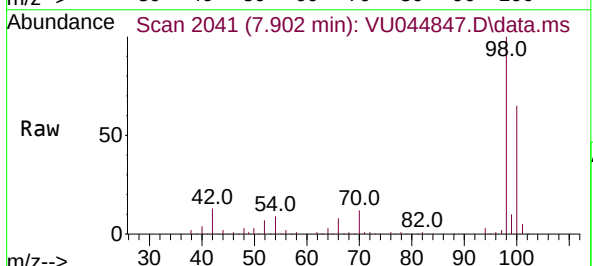
Tgt Ion: 63 Resp: 1272  
Ion Ratio Lower Upper  
63 100  
65 385.0 23.9 35.9#

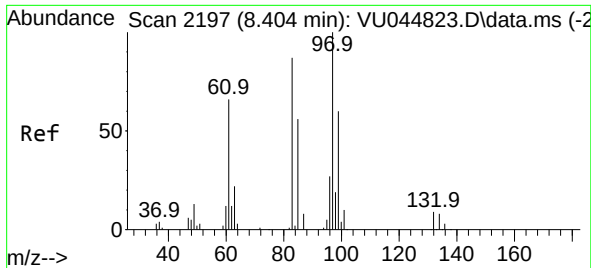


#50

Toluene-d8  
Concen: 50.503 ug/l  
RT: 7.902 min Scan# 2041  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

Tgt Ion: 98 Resp: 393068  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.5 78.7

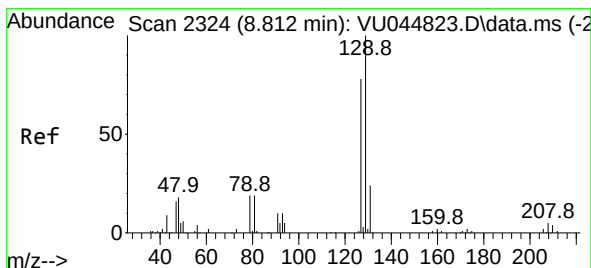
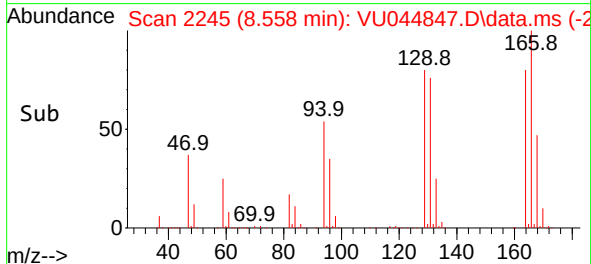
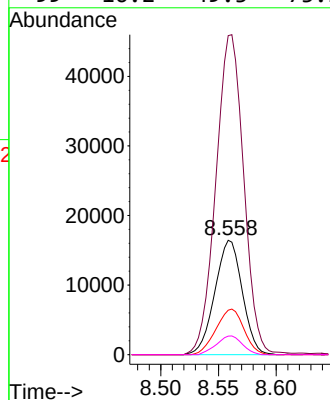
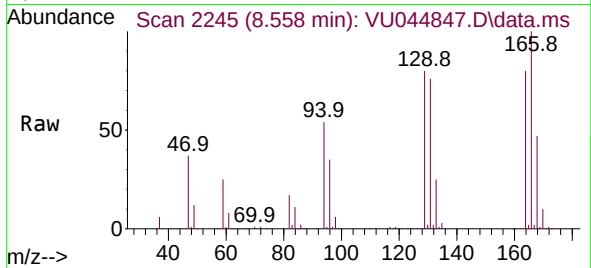




#55  
1,1,2-Trichloroethane  
Concen: 10.936 ug/l  
RT: 8.558 min Scan# 2245  
Delta R.T. 0.154 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

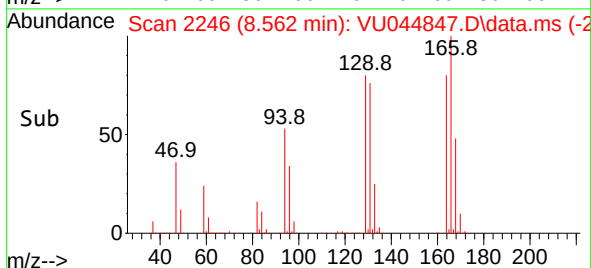
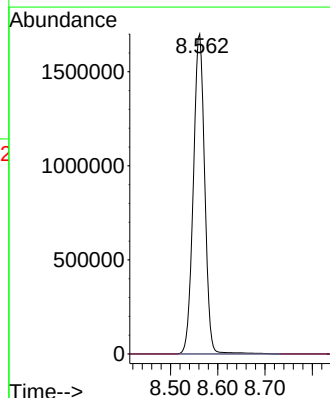
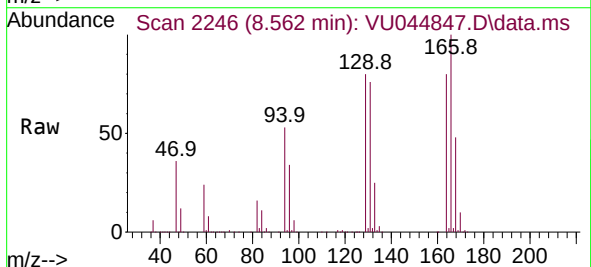
Instrument :  
MSVOA\_U  
ClientSampled :  
1027-MW-01

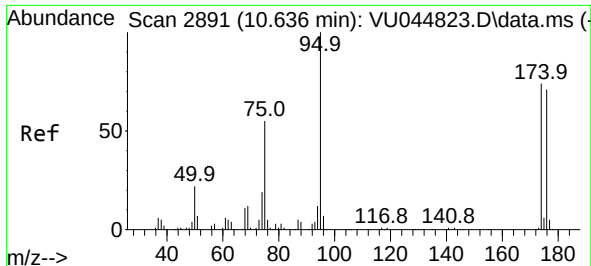
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 27164  |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 278.9 | 69.7  | 104.5# |
| 85       | 38.8  | 44.8  | 67.2#  |
| 99       | 16.2  | 49.3  | 73.9#  |



#60  
Dibromochloromethane  
Concen: 1193.735 ug/l  
RT: 8.562 min Scan# 2246  
Delta R.T. -0.251 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 129   | Resp: | 2839438 |
| Ion      | Ratio | Lower | Upper   |
| 129      | 100   |       |         |
| 127      | 0.0   | 39.0  | 117.0#  |

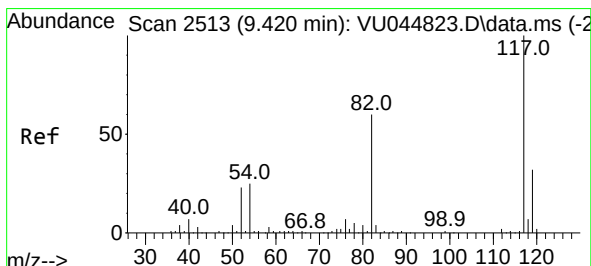
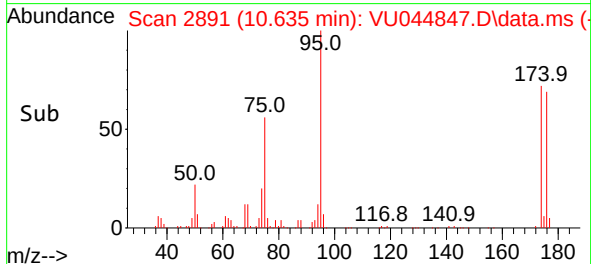
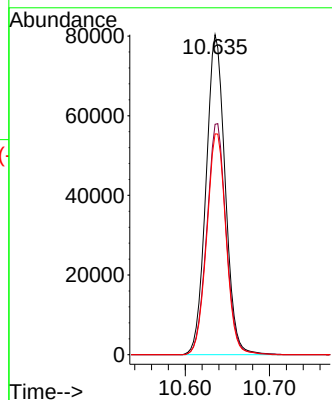
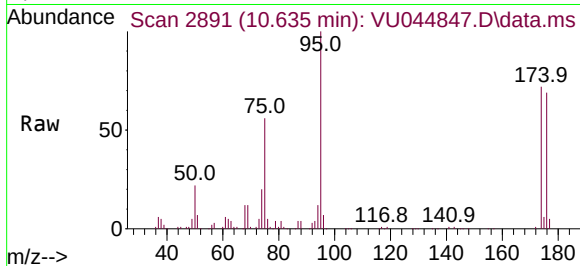




#62  
4-Bromofluorobenzene  
Concen: 43.896 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

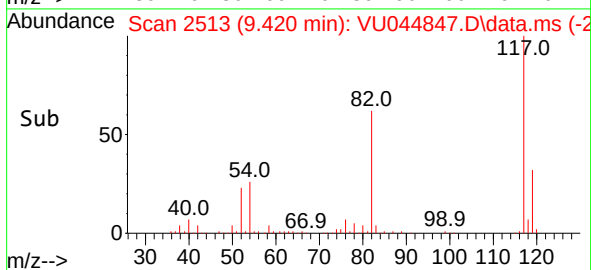
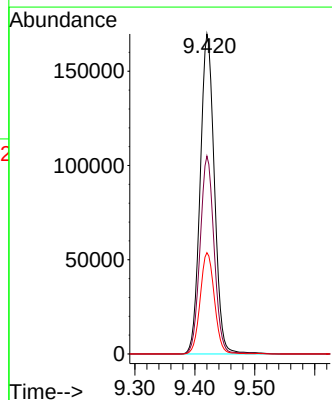
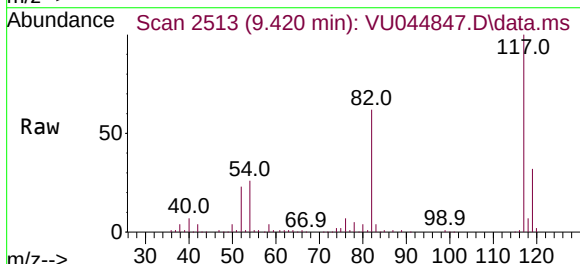
Instrument :  
MSVOA\_U  
ClientSampleId :  
1027-MW-01

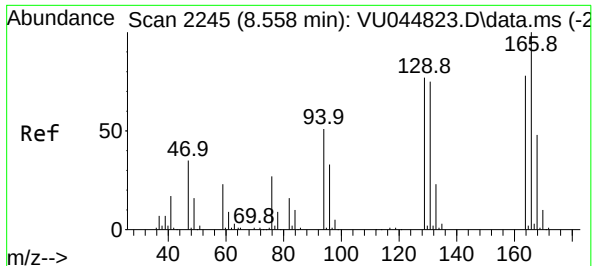
Tgt Ion: 95 Resp: 126893  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 146.6  
176 69.7 0.0 141.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.420 min Scan# 2513  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

Tgt Ion: 117 Resp: 280500  
Ion Ratio Lower Upper  
117 100  
82 61.8 47.8 71.8  
119 31.6 25.8 38.6

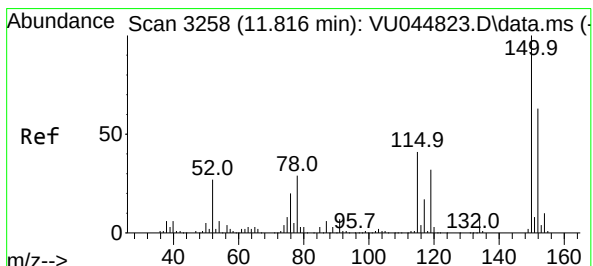
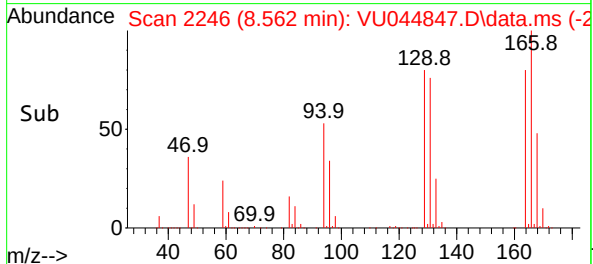
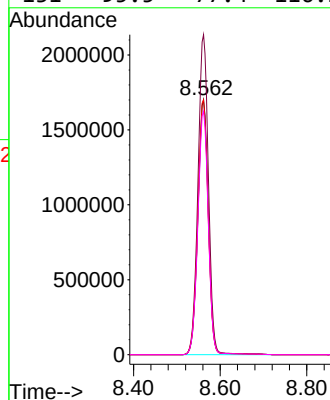
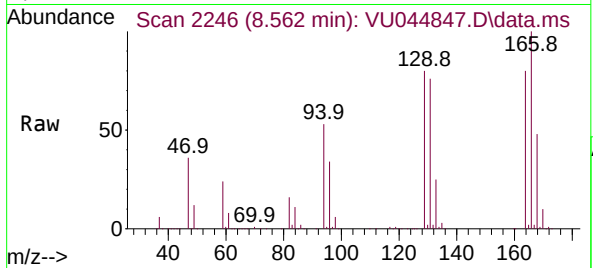




#64  
Tetrachloroethene  
Concen: 1498.813 ug/l  
RT: 8.562 min Scan# 2246  
Delta R.T. 0.003 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

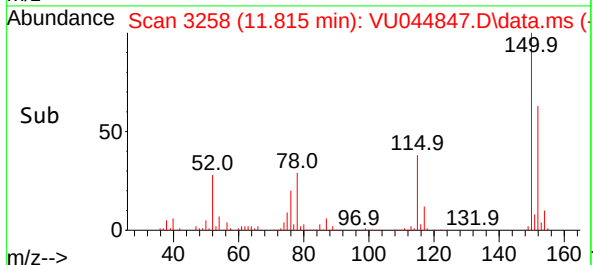
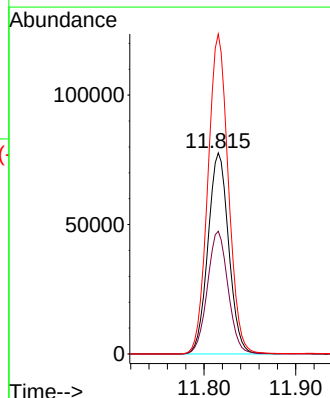
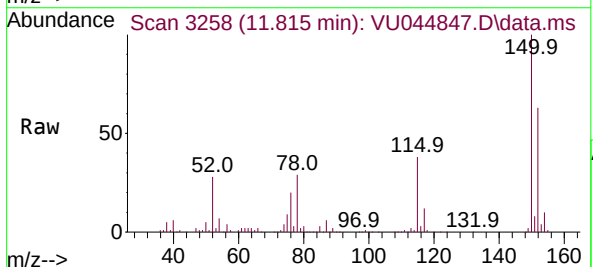
Instrument :  
MSVOA\_U  
ClientSampleId :  
1027-MW-01

Tgt Ion:164 Resp: 2849676  
Ion Ratio Lower Upper  
164 100  
166 125.5 102.8 154.2  
129 100.0 79.4 119.2  
131 95.5 77.4 116.2

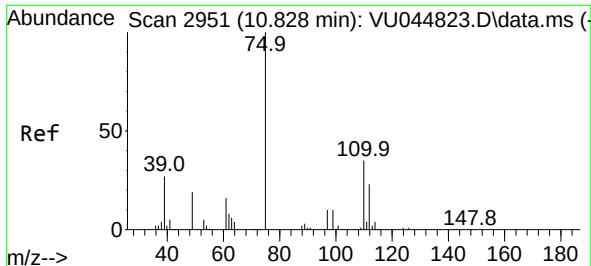


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.815 min Scan# 3258  
Delta R.T. -0.000 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

Tgt Ion:152 Resp: 121956  
Ion Ratio Lower Upper  
152 100  
115 60.9 43.5 130.7  
150 157.2 0.0 350.0



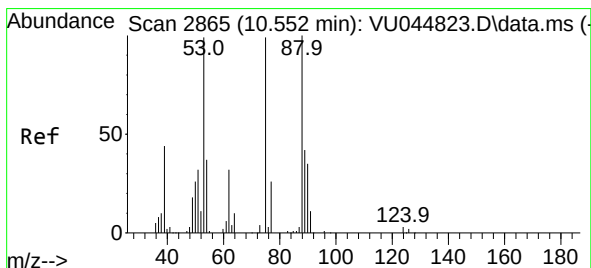
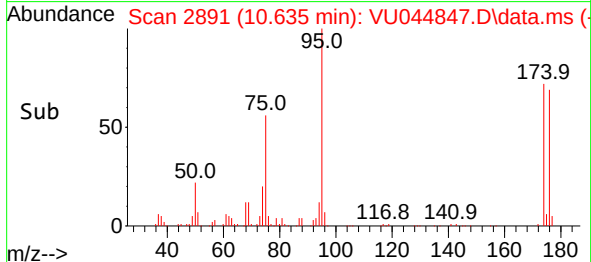
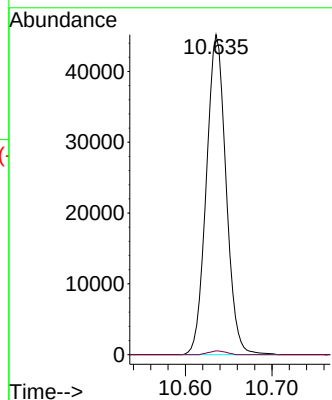
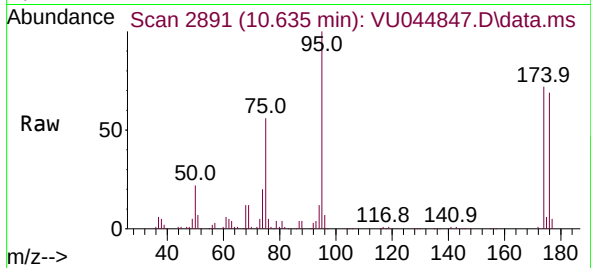




#76  
1,2,3-Trichloropropane  
Concen: 19.364 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. -0.193 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

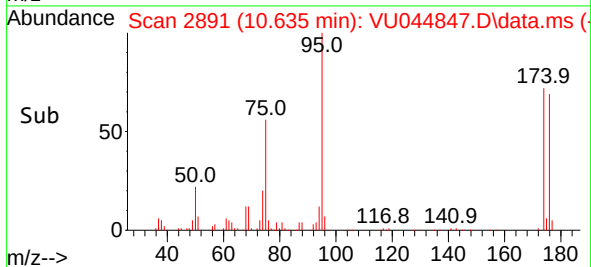
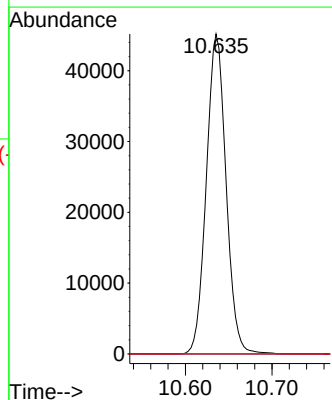
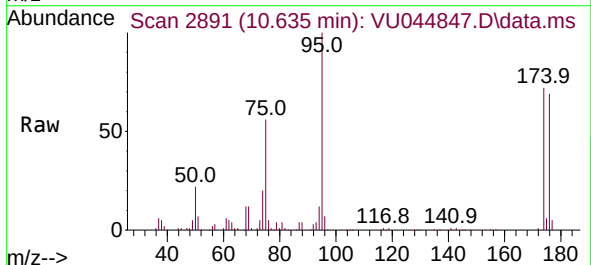
Instrument :  
MSVOA\_U  
ClientSampleId :  
1027-MW-01

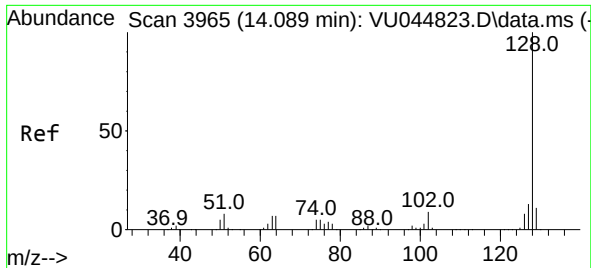
Tgt Ion: 75 Resp: 71511  
Ion Ratio Lower Upper  
75 100  
77 1.1 17.9 53.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.728 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. 0.084 min  
Lab File: VU044847.D  
Acq: 25 Sep 2021 19:18

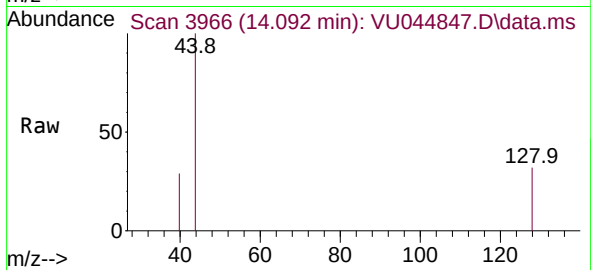
Tgt Ion: 75 Resp: 71511  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.0 123.0#  
89 0.0 34.2 51.4#





#95  
 Naphthalene  
 Concen: 0.959 ug/l  
 RT: 14.092 min Scan# 3966  
 Delta R.T. 0.003 min  
 Lab File: VU044847.D  
 Acq: 25 Sep 2021 19:18

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 1027-MW-01



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.4  | 15.6# |
| 129     | 0.0   | 8.6   | 13.0# |

