

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121921\  
 Data File : VU046502.D  
 Acq On : 19 Dec 2021 18:00  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 20 00:29:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 20 00:25:10 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 145800   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 149475   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 84993    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.604   | 65    | 46048    | 38.341   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 76.680%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 38375    | 41.615   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 83.240%  |
| 11) 1,1-Dichloroethene-d2     | 2.578   | 63    | 92588    | 42.943   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 85.880%  |
| 21) 2-Butanone-d5             | 4.645   | 46    | 91779    | 96.128   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 96.130%  |
| 24) Chloroform-d              | 5.067   | 84    | 101797   | 50.755   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.520% |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 65470    | 48.640   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.280%  |
| 32) Benzene-d6                | 5.732   | 84    | 186767   | 43.594   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.180%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 58130    | 43.781   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 87.560%  |
| 41) Toluene-d8                | 7.899   | 98    | 170262   | 43.648   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.300%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 29941    | 46.713   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.420%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 69751    | 110.797  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 110.800% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 96516    | 47.932   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.860%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 70343    | 42.976   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 85.960%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.388   | 85    | 70739    | 44.595   | ug/L   | 100      |
| 3) Chloromethane              | 1.527   | 50    | 64500    | 45.460   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.610   | 62    | 67565    | 47.228   | ug/L   | 100      |
| 6) Bromomethane               | 1.864   | 94    | 41241    | 50.862   | ug/L   | 96       |
| 8) Chloroethane               | 1.941   | 64    | 41436    | 50.024   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.147   | 101   | 101951   | 54.586   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.588   | 101   | 55408    | 52.227   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.588   | 96    | 51412    | 50.998   | ug/L   | 91       |
| 13) Acetone                   | 2.668   | 43    | 88385    | 74.072   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.800   | 76    | 142537   | 45.572   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.964   | 43    | 67189    | 48.302   | ug/L   | 96       |
| 16) Methylene chloride        | 3.054   | 84    | 61306    | 51.113   | ug/L   | 100      |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 54593    | 51.172   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 179873   | 54.708   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 102287   | 52.731   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 60788    | 52.512   | ug/L   | 100      |
| 22) 2-Butanone                | 4.723   | 43    | 111124   | 85.549   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.980   | 128   | 31505    | 53.886   | ug/L   | 93       |
| 25) Chloroform                | 5.092   | 83    | 112102   | 52.014   | ug/L   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121921\  
 Data File : VU046502.D  
 Acq On : 19 Dec 2021 18:00  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

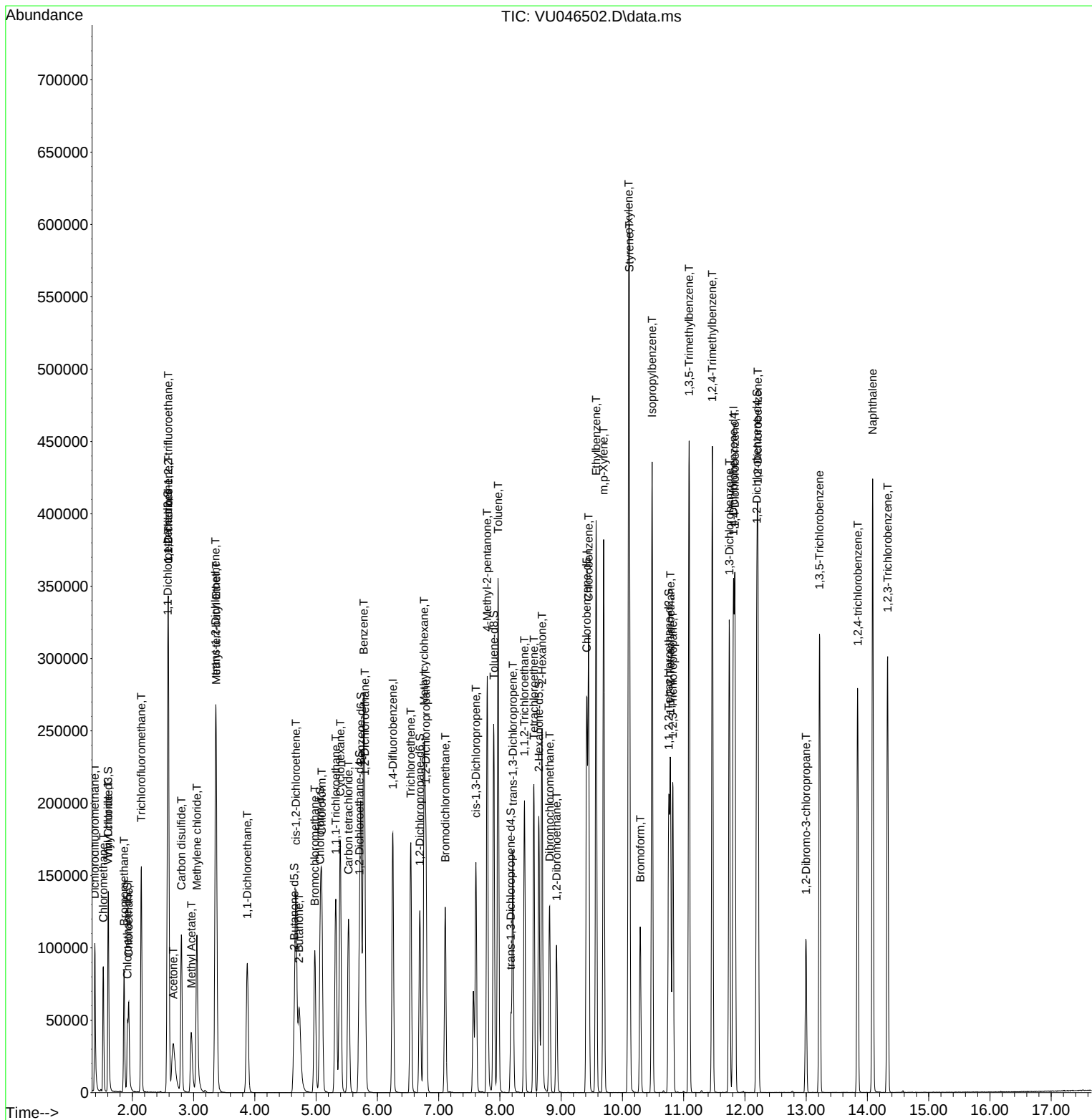
Instrument :  
 MSVOA\_U  
 ClientSampleId :

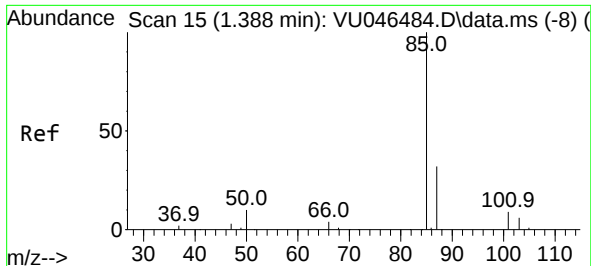
Quant Time: Dec 20 00:29:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 20 00:25:10 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.796  | 62   | 90518    | 56.598  | ug/L  | 99       |
| 29) Cyclohexane               | 5.395  | 56   | 85481    | 49.112  | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane     | 5.321  | 97   | 100487   | 54.767  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 84437    | 54.207  | ug/L  | 98       |
| 33) Benzene                   | 5.777  | 78   | 234280   | 51.786  | ug/L  | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 60527    | 50.785  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.764  | 83   | 94193    | 50.971  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 60485    | 51.038  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.108  | 83   | 84127    | 53.407  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 94505    | 52.419  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 177164   | 101.748 | ug/L  | 99       |
| 42) Toluene                   | 7.970  | 91   | 255442   | 52.621  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 93409    | 52.752  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 61548    | 51.766  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.555  | 164  | 45862    | 52.363  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.687  | 43   | 149971   | 96.308  | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.812  | 129  | 66010    | 52.869  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 65776    | 51.027  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.449  | 112  | 160283   | 51.036  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 273517   | 52.354  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.693  | 106  | 108075   | 53.045  | ug/L  | 99       |
| 54) o-xylene                  | 10.102 | 106  | 103576   | 52.391  | ug/L  | 97       |
| 55) Styrene                   | 10.115 | 104  | 181676   | 53.825  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 106681   | 52.335  | ug/L  | 99       |
| 59) Bromoform                 | 10.291 | 173  | 50361    | 50.509  | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 88181    | 47.330  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.484 | 105  | 276789   | 50.052  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 240503   | 52.178  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 243399   | 52.780  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 128286   | 48.837  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 130803   | 48.181  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 128974   | 48.756  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 27385    | 55.174  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 93509    | 48.855  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 83652    | 49.252  | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 317353   | 53.694  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 89921    | 51.918  | ug/L  | 100      |

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

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QLast Update : Mon Dec 20 00:25:10 2021  
Response via : Initial Calibration

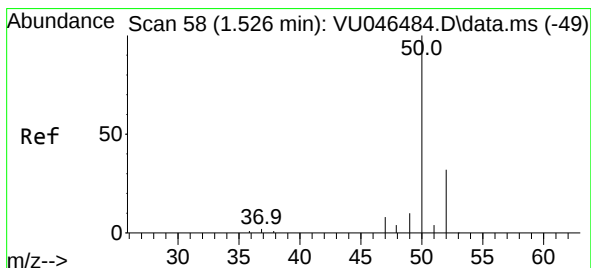
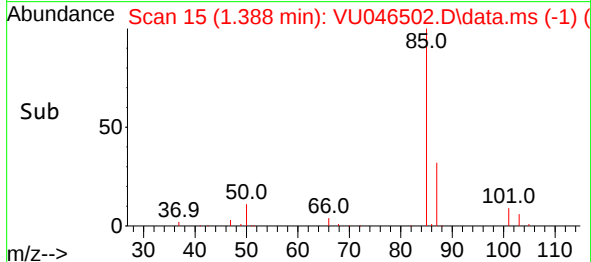
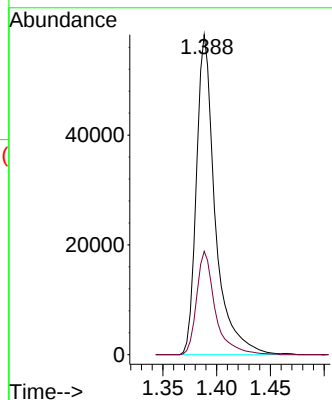
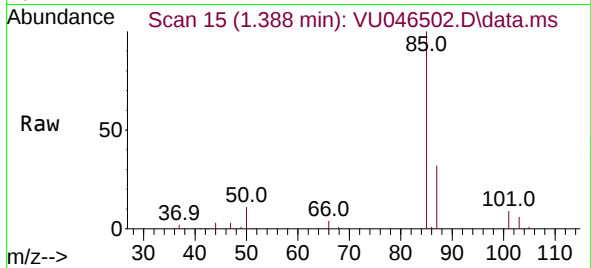




#2  
Dichlorodifluoromethane  
Concen: 44.595 ug/L  
RT: 1.388 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

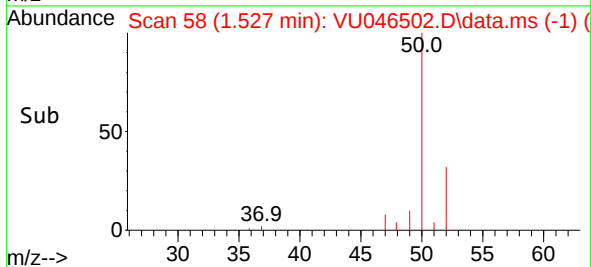
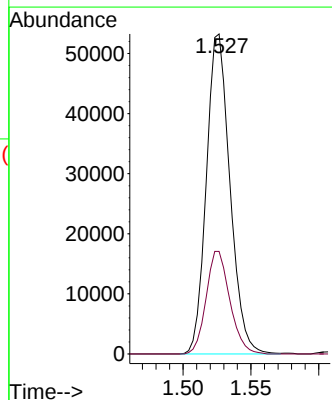
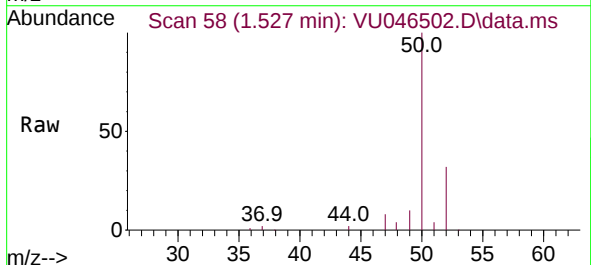
Instrument :  
MSVOA\_U  
ClientSampleId :

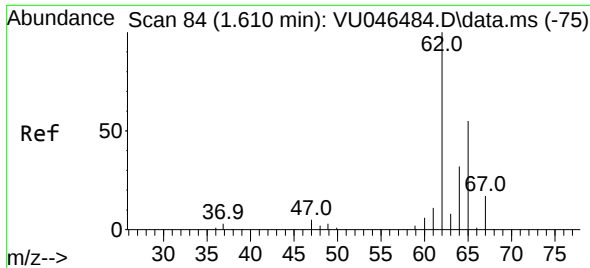
Tgt Ion: 85 Resp: 70739  
Ion Ratio Lower Upper  
85 100  
87 32.2 25.7 38.5



#3  
Chloromethane  
Concen: 45.460 ug/L  
RT: 1.527 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 50 Resp: 64500  
Ion Ratio Lower Upper  
50 100  
52 32.1 23.2 43.2





#5

Vinyl chloride

Concen: 47.228 ug/L

RT: 1.610 min Scan# 84

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

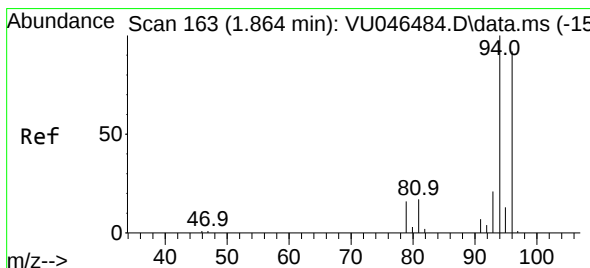
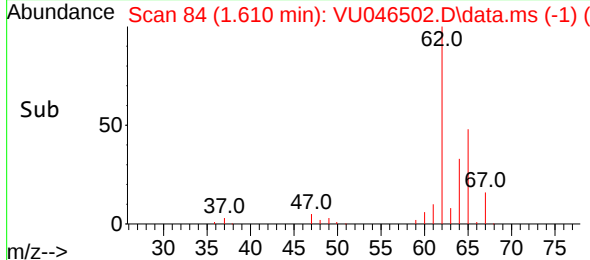
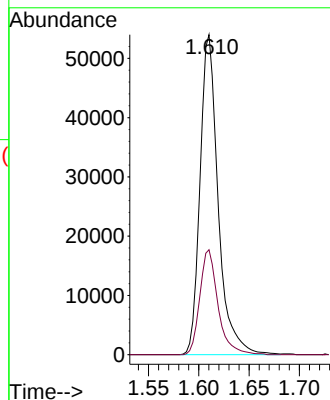
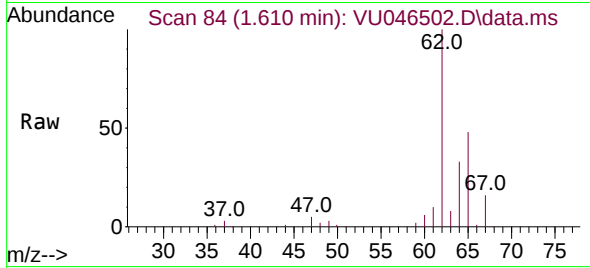
ClientSampleId :

Tgt Ion: 62 Resp: 67565

Ion Ratio Lower Upper

62 100

64 32.8 22.9 42.5



#6

Bromomethane

Concen: 50.862 ug/L

RT: 1.864 min Scan# 163

Delta R.T. 0.000 min

Lab File: VU046502.D

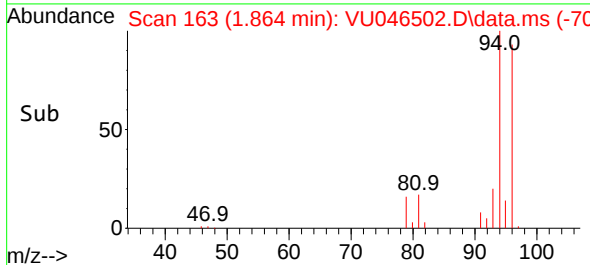
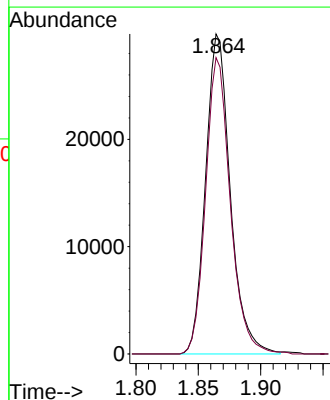
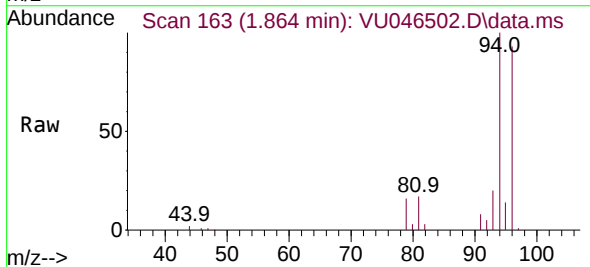
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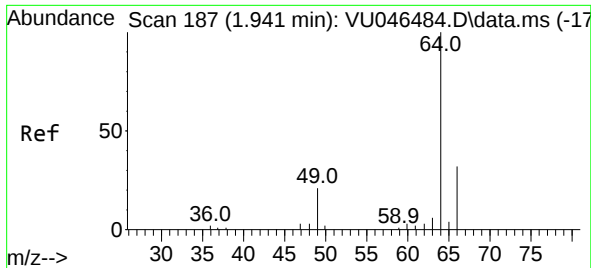
Tgt Ion: 94 Resp: 41241

Ion Ratio Lower Upper

94 100

96 92.6 67.4 125.2

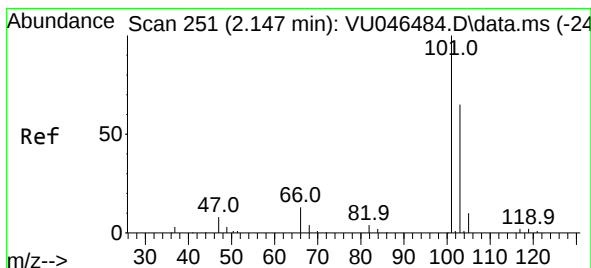
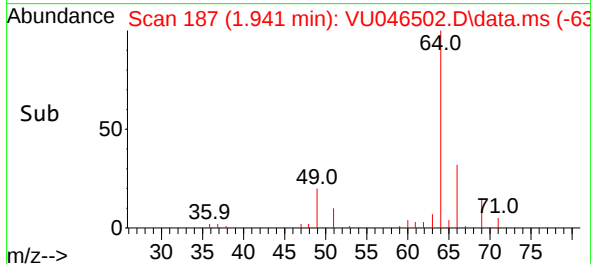
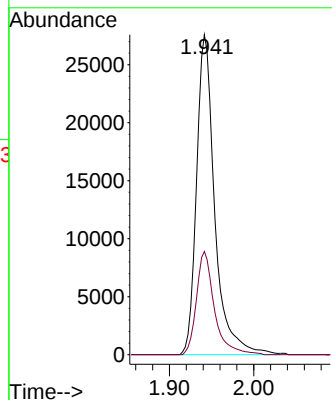
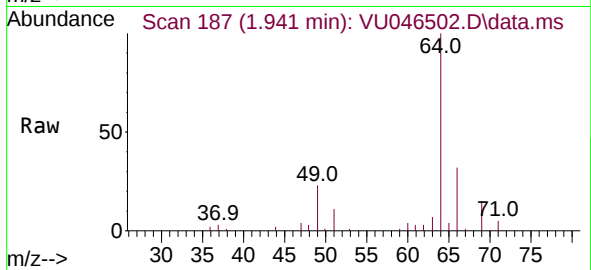




#8  
Chloroethane  
Concen: 50.024 ug/L  
RT: 1.941 min Scan# 187  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

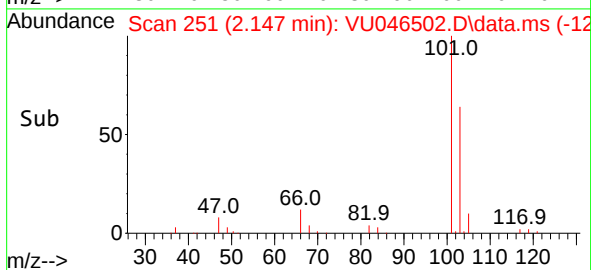
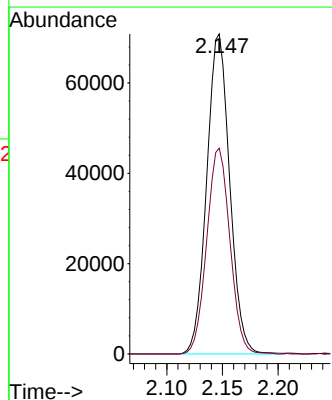
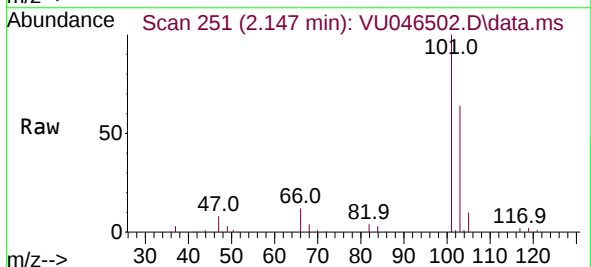
Instrument :  
MSVOA\_U  
ClientSampleId :

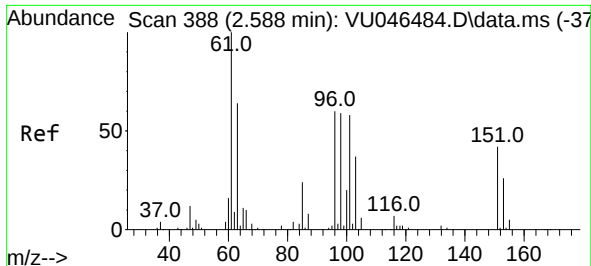
Tgt Ion: 64 Resp: 41436  
Ion Ratio Lower Upper  
64 100  
66 32.3 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 54.586 ug/L  
RT: 2.147 min Scan# 251  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion:101 Resp: 101951  
Ion Ratio Lower Upper  
101 100  
103 64.8 51.8 77.6

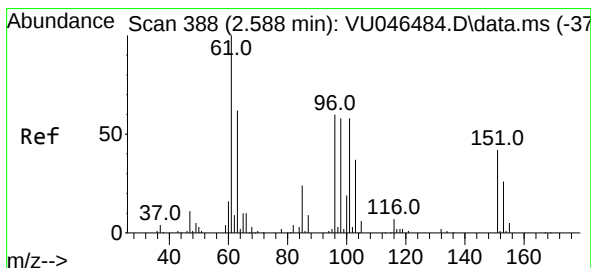
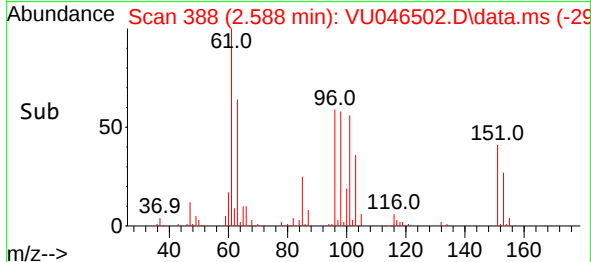
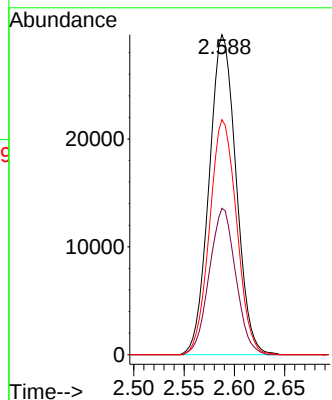
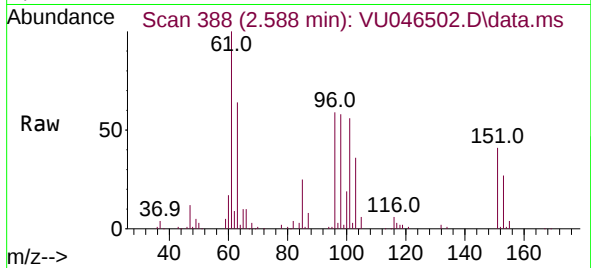




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 52.227 ug/L  
 RT: 2.588 min Scan# 388  
 Delta R.T. 0.000 min  
 Lab File: VU046502.D  
 Acq: 19 Dec 2021 18:00

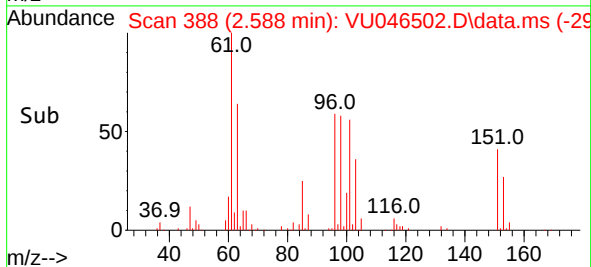
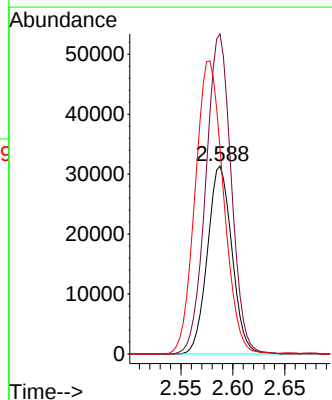
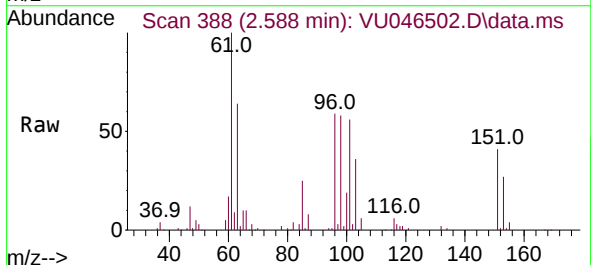
Instrument :  
 MSVOA\_U  
 ClientSampleId :

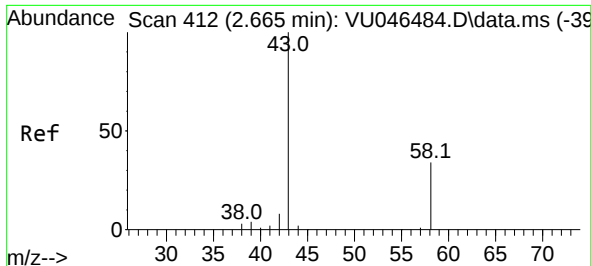
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 Ion Ratio Lower Upper  
 101 100  
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 151 73.7 56.7 85.1



#12  
 1,1-Dichloroethene  
 Concen: 50.998 ug/L  
 RT: 2.588 min Scan# 388  
 Delta R.T. 0.000 min  
 Lab File: VU046502.D  
 Acq: 19 Dec 2021 18:00

Tgt Ion: 96 Resp: 51412  
 Ion Ratio Lower Upper  
 96 100  
 61 170.4 118.6 220.2  
 63 109.3 93.0 172.8





#13

Acetone

Concen: 74.072 ug/L

RT: 2.668 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

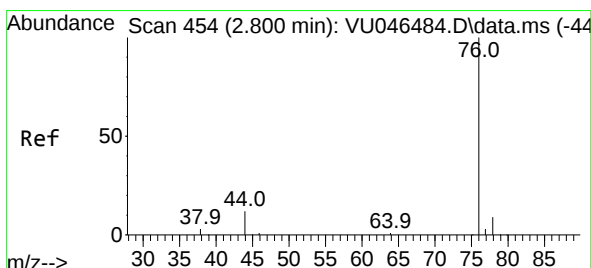
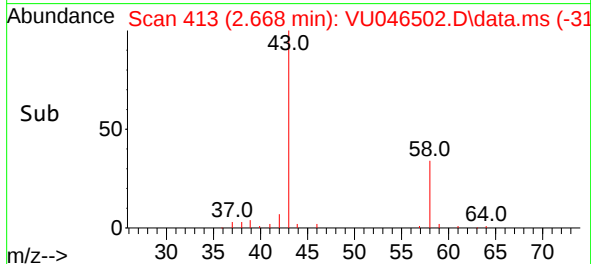
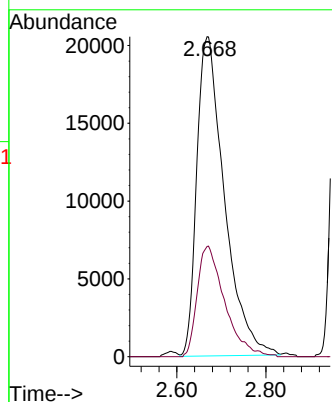
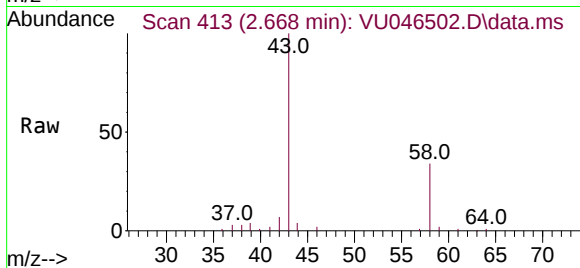
ClientSampleId :

Tgt Ion: 43 Resp: 88385

Ion Ratio Lower Upper

43 100

58 32.7 0.0 66.8



#14

Carbon disulfide

Concen: 45.572 ug/L

RT: 2.800 min Scan# 454

Delta R.T. 0.000 min

Lab File: VU046502.D

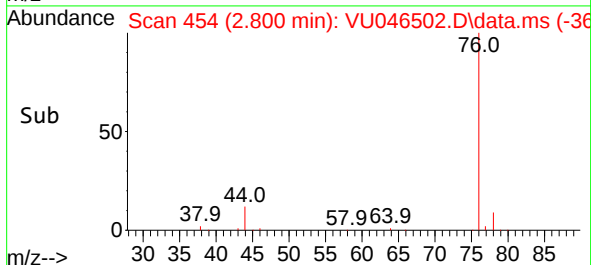
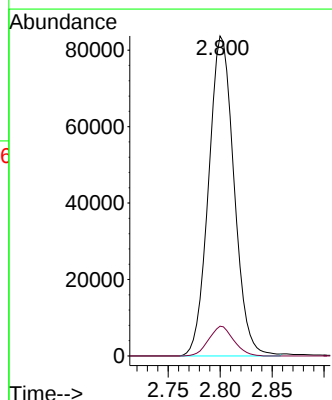
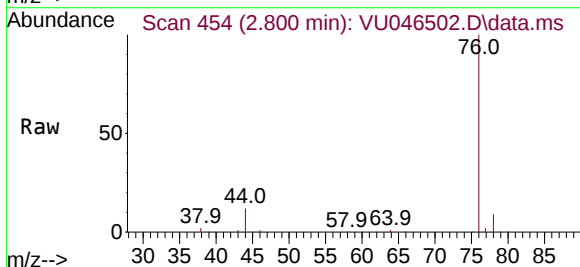
Acq: 19 Dec 2021 18:00

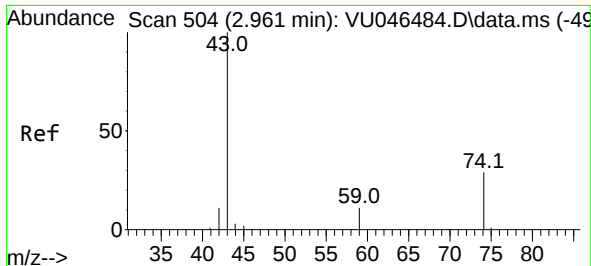
Tgt Ion: 76 Resp: 142537

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9

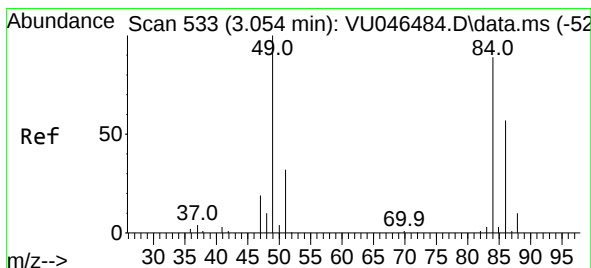
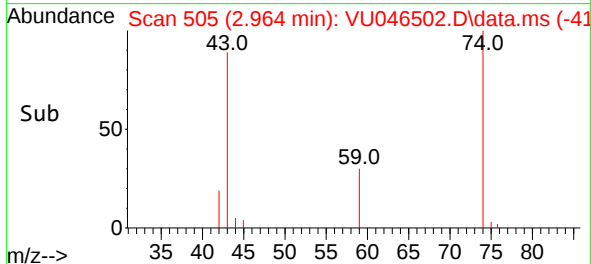
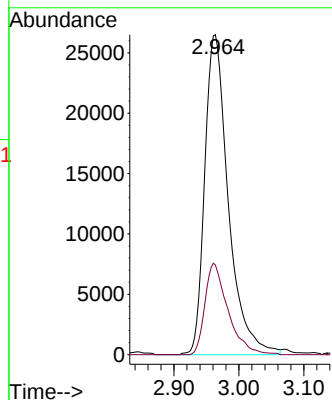
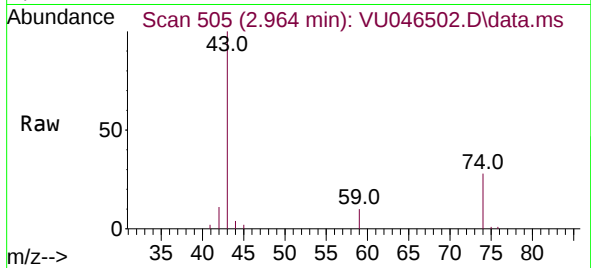




#15  
Methyl Acetate  
Concen: 48.302 ug/L  
RT: 2.964 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

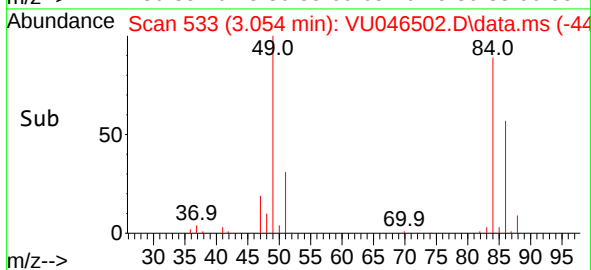
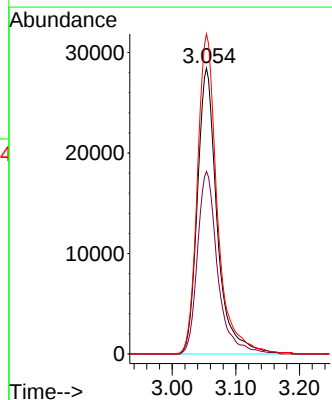
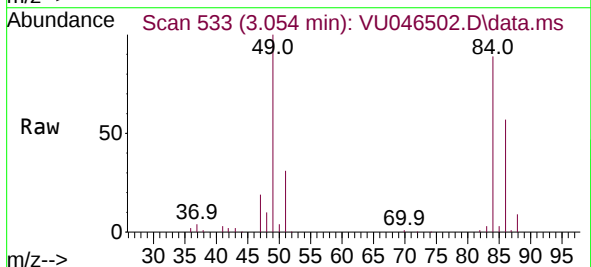
Instrument :  
MSVOA\_U  
ClientSampleId :

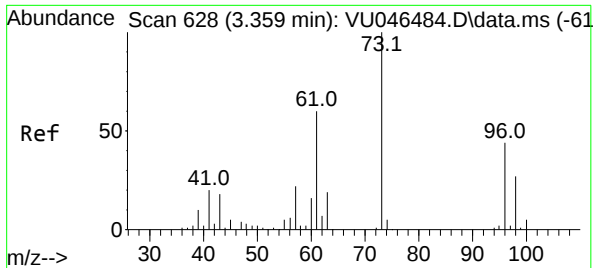
Tgt Ion: 43 Resp: 67189  
Ion Ratio Lower Upper  
43 100  
74 27.8 20.8 31.2



#16  
Methylene chloride  
Concen: 51.113 ug/L  
RT: 3.054 min Scan# 533  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 84 Resp: 61306  
Ion Ratio Lower Upper  
84 100  
86 63.8 44.7 83.1  
49 112.0 78.4 145.6





#17

trans-1,2-Dichloroethene

Concen: 51.172 ug/L

RT: 3.359 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

ClientSampleId :

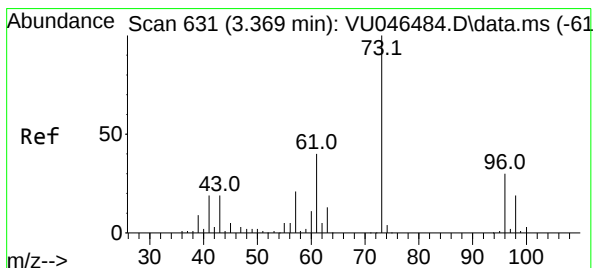
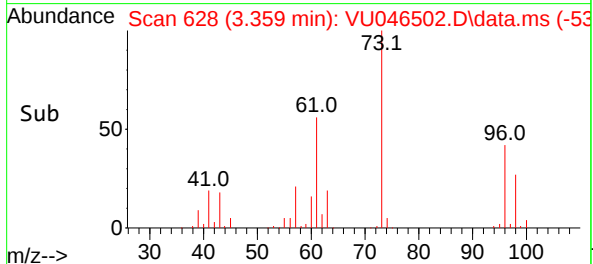
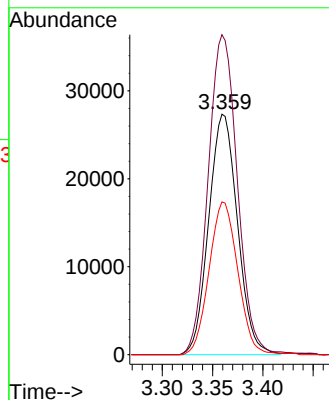
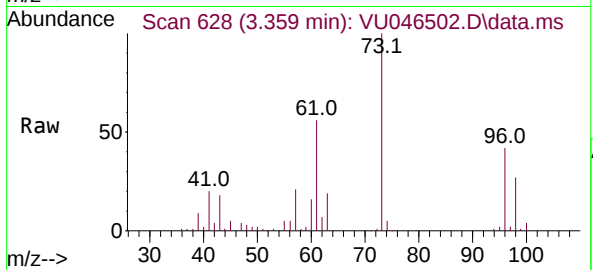
Tgt Ion: 96 Resp: 54593

Ion Ratio Lower Upper

96 100

61 133.1 94.6 175.6

98 63.5 44.0 81.8



#18

Methyl tert-butyl Ether

Concen: 54.708 ug/L

RT: 3.369 min Scan# 631

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

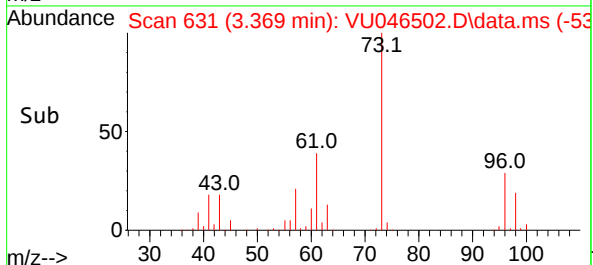
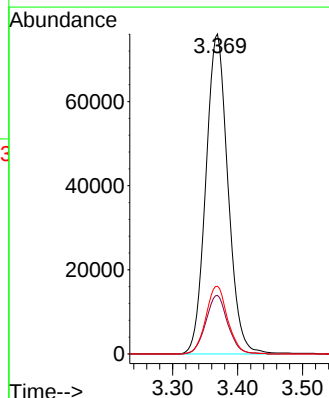
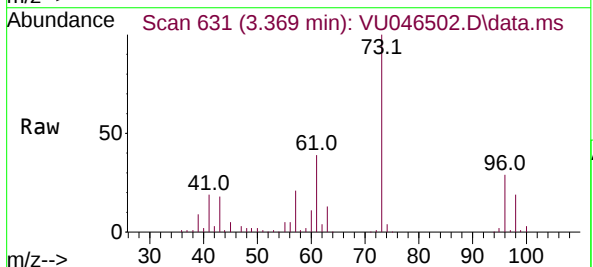
Tgt Ion: 73 Resp: 179873

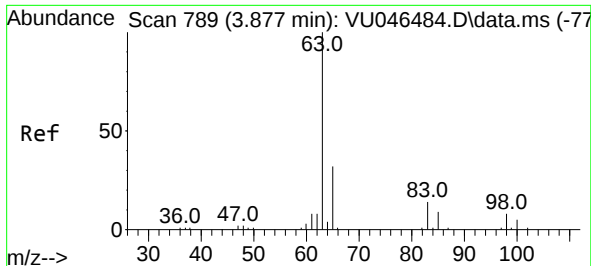
Ion Ratio Lower Upper

73 100

43 18.2 14.0 21.0

57 20.8 17.0 25.4





#19

1,1-Dichloroethane

Concen: 52.731 ug/L

RT: 3.877 min Scan# 789

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

ClientSampleId :

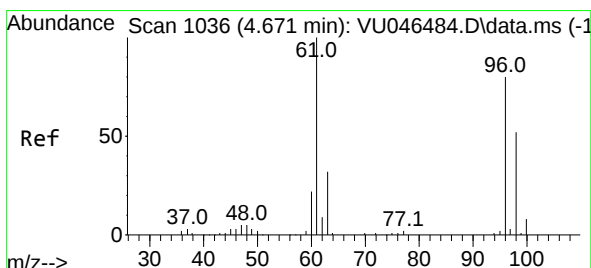
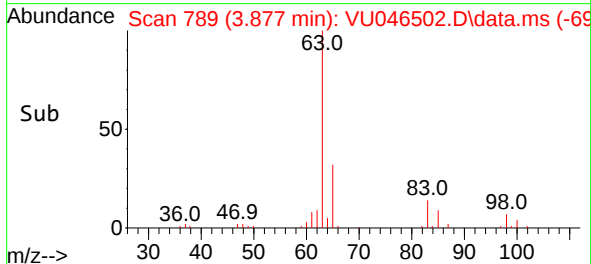
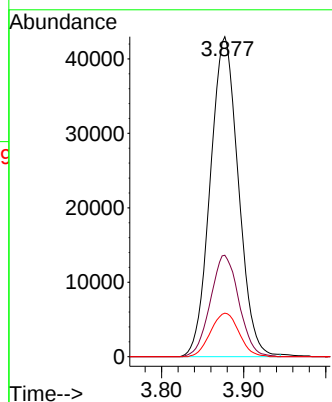
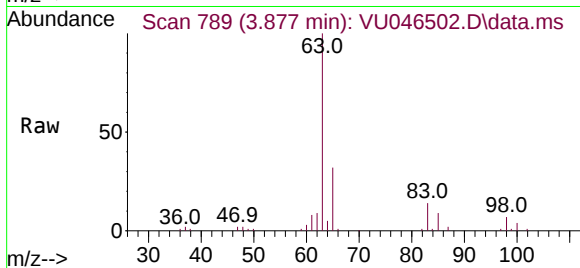
Tgt Ion: 63 Resp: 102287

Ion Ratio Lower Upper

63 100

65 31.7 22.8 42.4

83 13.6 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 52.512 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

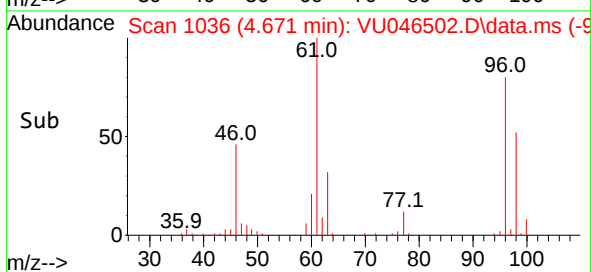
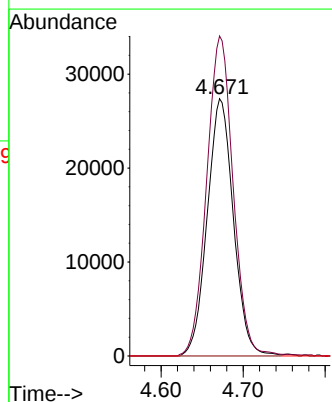
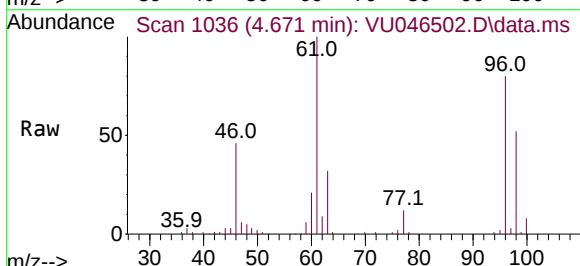
Tgt Ion: 96 Resp: 60788

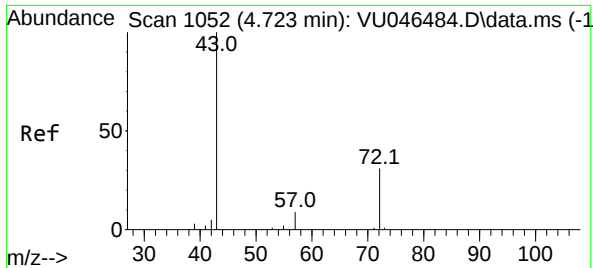
Ion Ratio Lower Upper

96 100

61 124.4 86.8 161.2

68 0.0 0.0 0.0

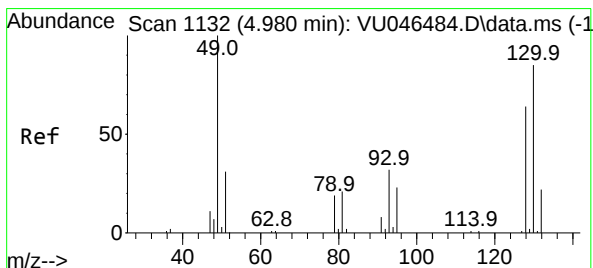
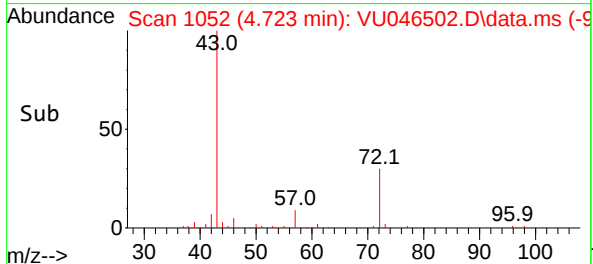
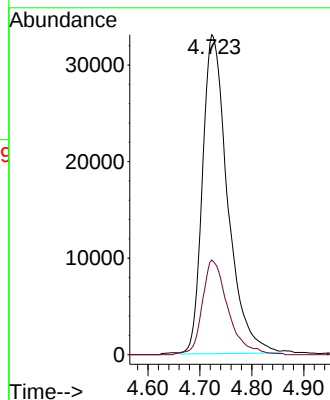
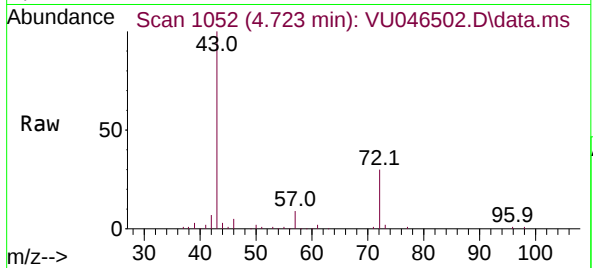




#22  
2-Butanone  
Concen: 85.549 ug/L  
RT: 4.723 min Scan# 1052  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

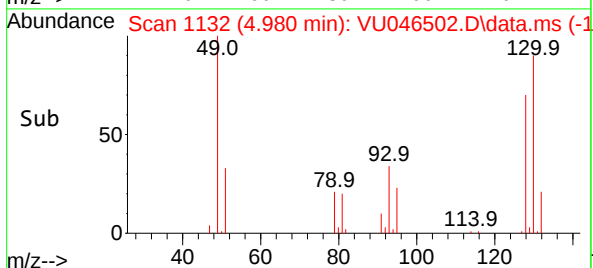
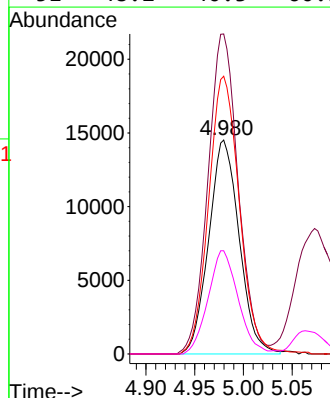
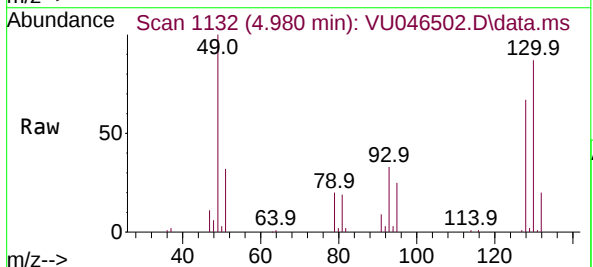
Instrument :  
MSVOA\_U  
ClientSampleId :

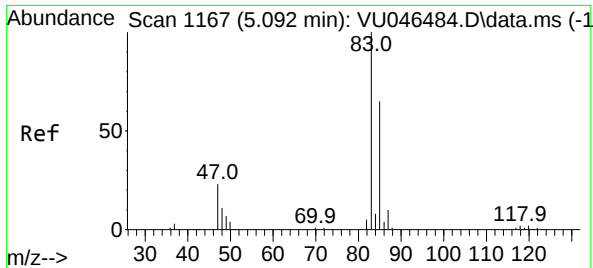
Tgt Ion: 43 Resp: 111124  
Ion Ratio Lower Upper  
43 100  
72 29.6 14.5 43.6



#23  
Bromochloromethane  
Concen: 53.886 ug/L  
RT: 4.980 min Scan# 1132  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 128 Resp: 31505  
Ion Ratio Lower Upper  
128 100  
49 149.6 115.9 215.3  
130 129.8 91.8 170.4  
51 48.2 40.3 60.5

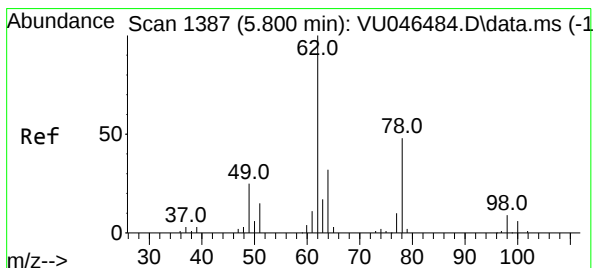
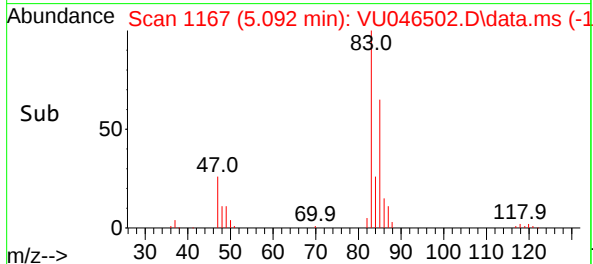
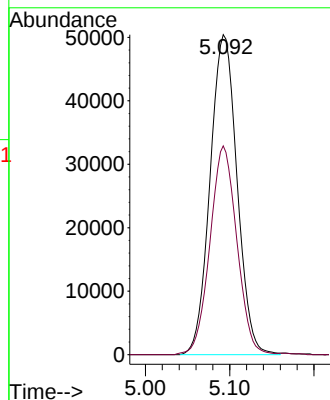
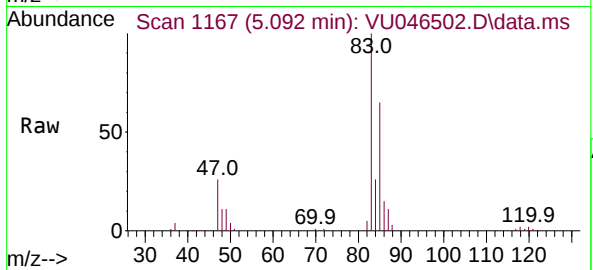




#25  
Chloroform  
Concen: 52.014 ug/L  
RT: 5.092 min Scan# 1167  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

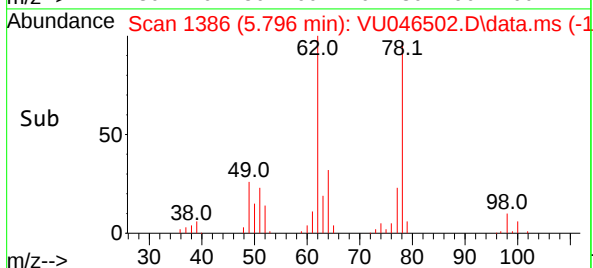
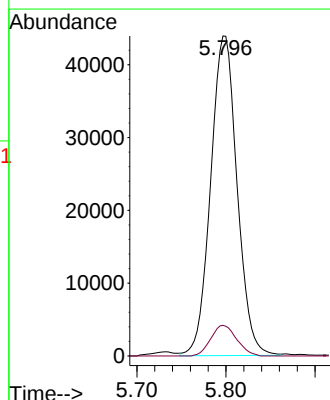
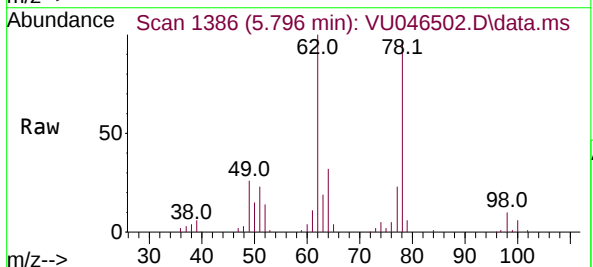
Instrument :  
MSVOA\_U  
ClientSampleId :

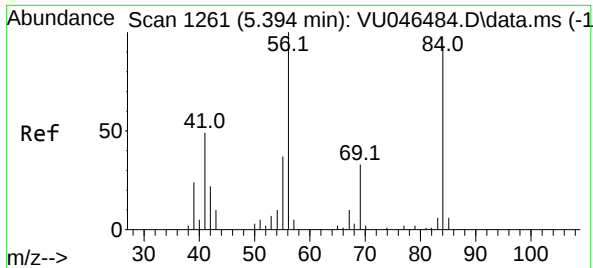
Tgt Ion: 83 Resp: 112102  
Ion Ratio Lower Upper  
83 100  
85 65.3 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 56.598 ug/L  
RT: 5.796 min Scan# 1386  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 62 Resp: 90518  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.9 11.9

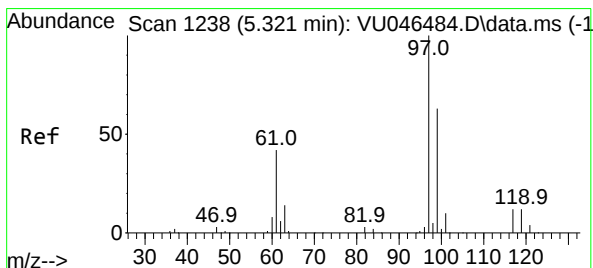
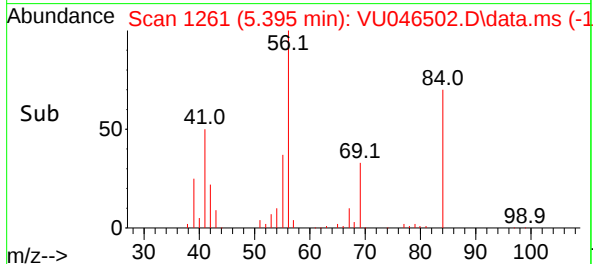
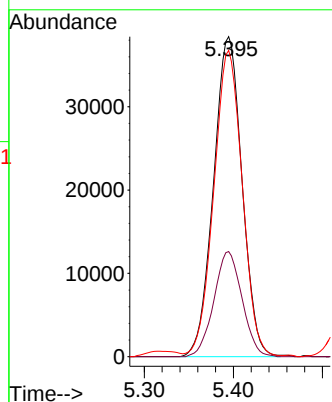
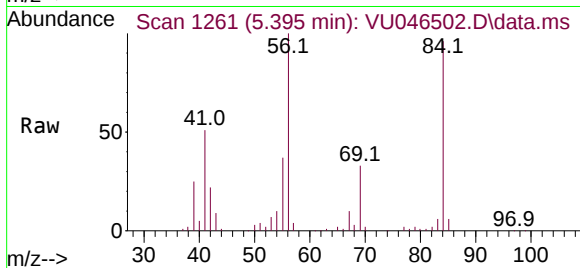




#29  
Cyclohexane  
Concen: 49.112 ug/L  
RT: 5.395 min Scan# 1261  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

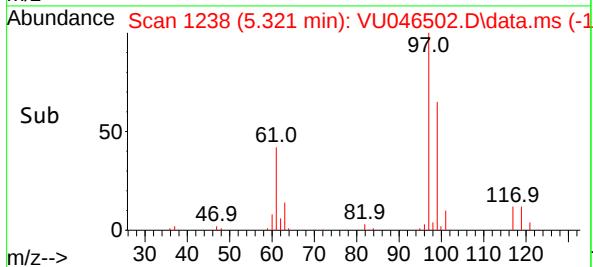
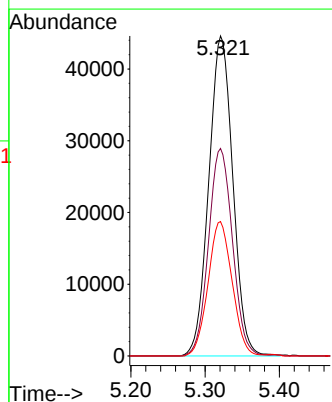
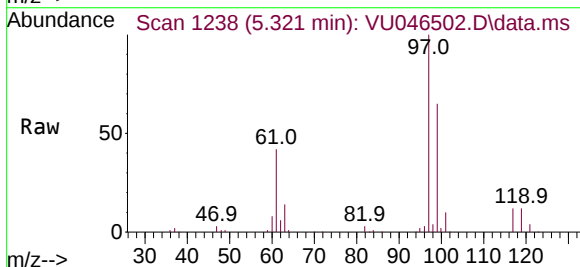
Instrument :  
MSVOA\_U  
ClientSampleId :

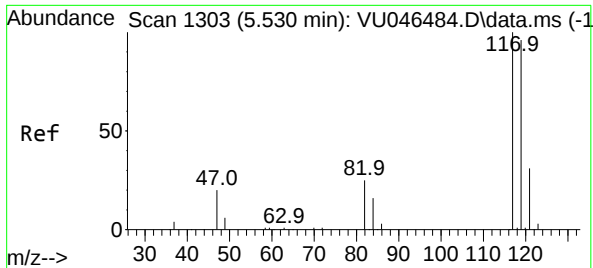
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 85481 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 32.4  | 25.2  | 37.8  |
| 84       | 95.6  | 73.3  | 109.9 |



#30  
1,1,1-Trichloroethane  
Concen: 54.767 ug/L  
RT: 5.321 min Scan# 1238  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 100487 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 64.6  | 51.8  | 77.6   |
| 61       | 42.0  | 34.4  | 51.6   |

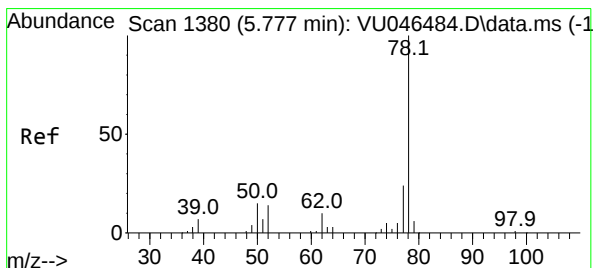
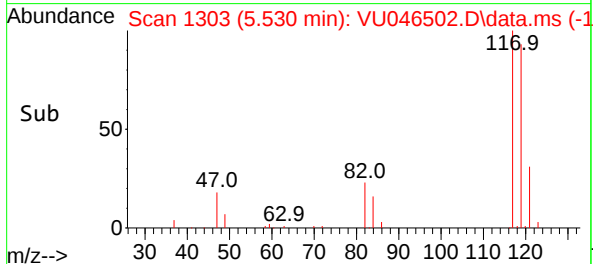
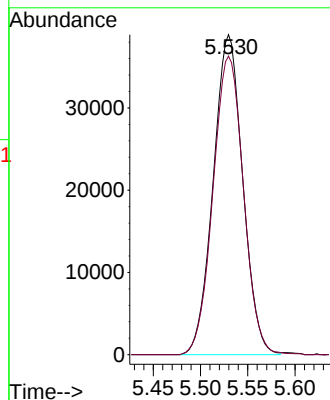
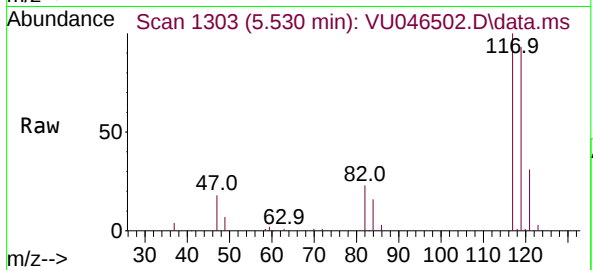




#31  
Carbon tetrachloride  
Concen: 54.207 ug/L  
RT: 5.530 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

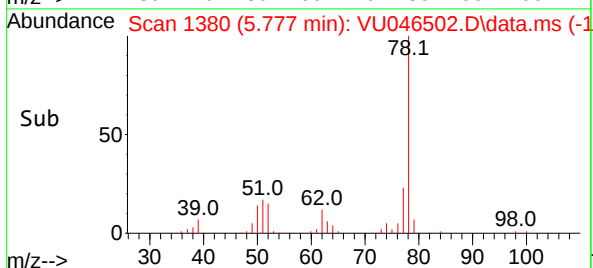
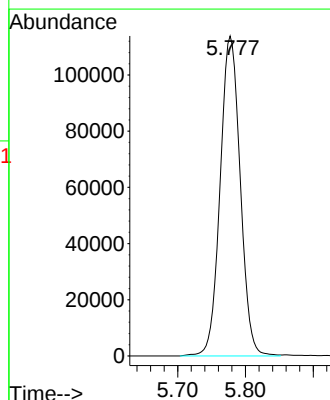
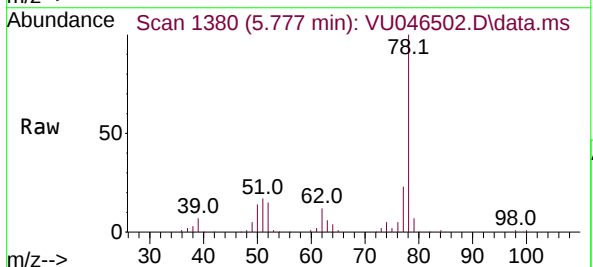
Instrument :  
MSVOA\_U  
ClientSampleId :

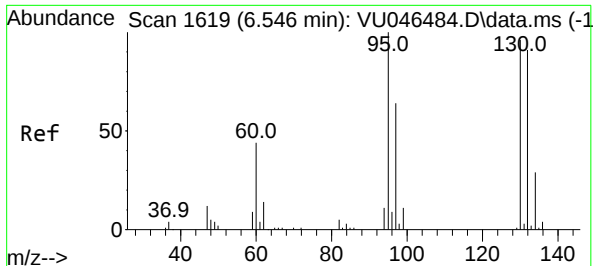
Tgt Ion:117 Resp: 84437  
Ion Ratio Lower Upper  
117 100  
119 96.2 75.7 113.5



#33  
Benzene  
Concen: 51.786 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 78 Resp: 234280

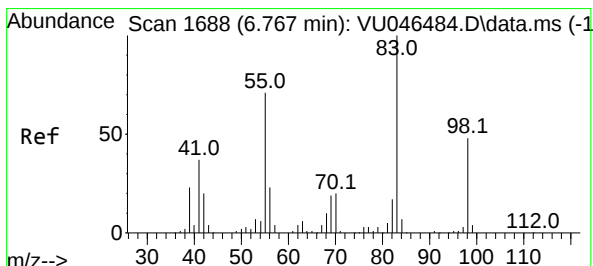
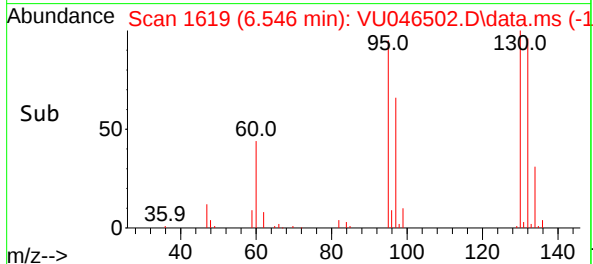
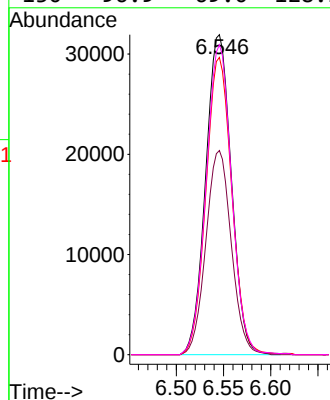
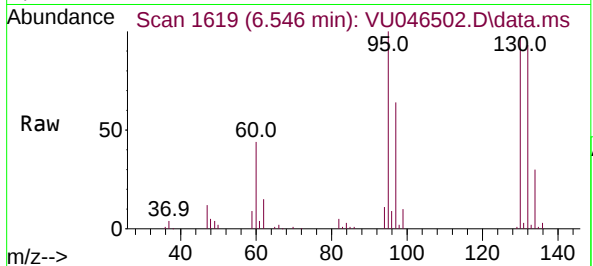




#34  
Trichloroethene  
Concen: 50.785 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

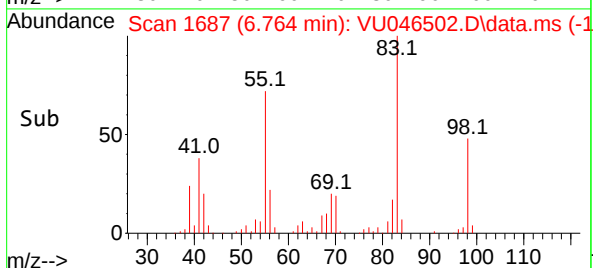
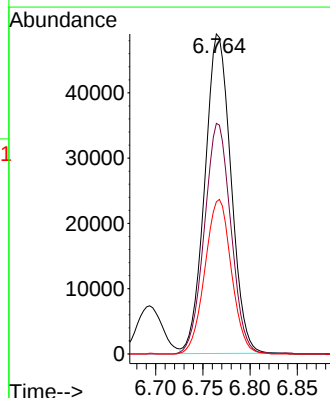
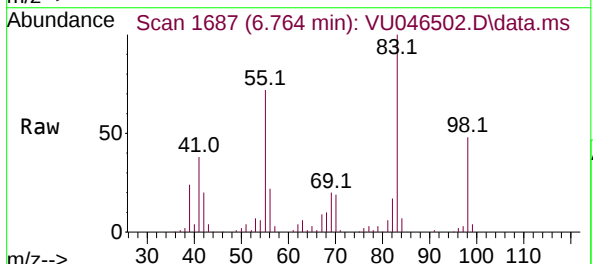
Instrument :  
MSVOA\_U  
ClientSampleId :

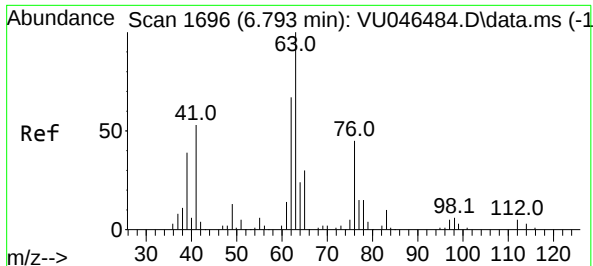
Tgt Ion: 95 Resp: 60527  
Ion Ratio Lower Upper  
95 100  
97 63.8 44.1 81.9  
132 92.9 66.8 124.0  
130 96.9 69.0 128.1



#35  
Methylcyclohexane  
Concen: 50.971 ug/L  
RT: 6.764 min Scan# 1687  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 83 Resp: 94193  
Ion Ratio Lower Upper  
83 100  
55 73.2 57.8 86.6  
98 48.9 38.4 57.6





#37

1,2-Dichloropropane

Concen: 51.038 ug/L

RT: 6.793 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

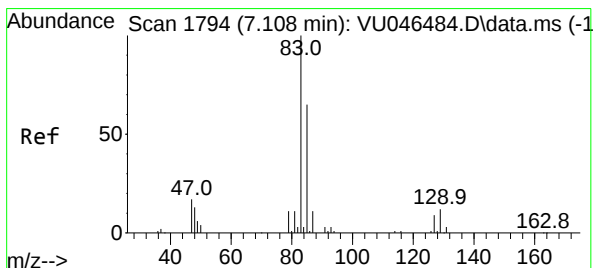
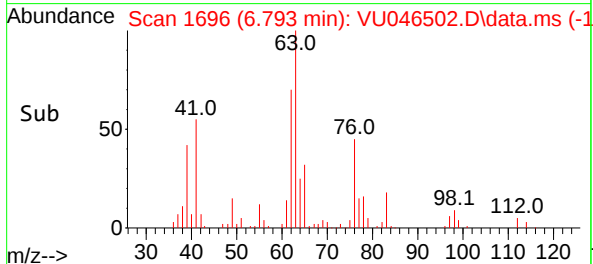
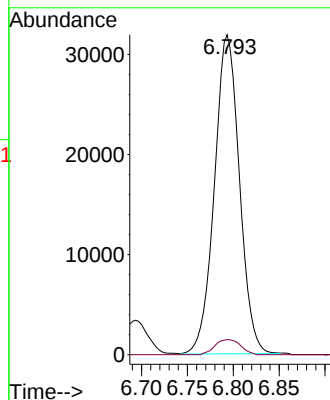
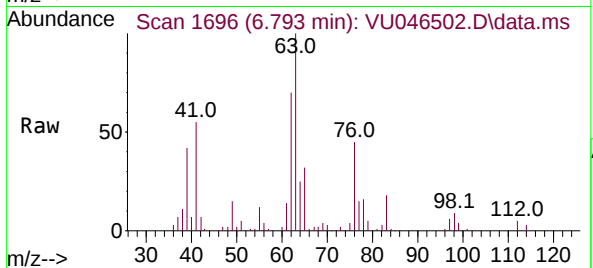
ClientSampleId :

Tgt Ion: 63 Resp: 60485

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.6



#38

Bromodichloromethane

Concen: 53.407 ug/L

RT: 7.108 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

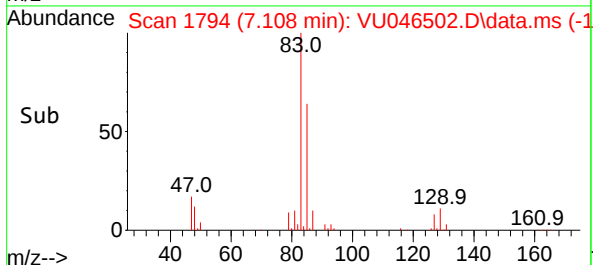
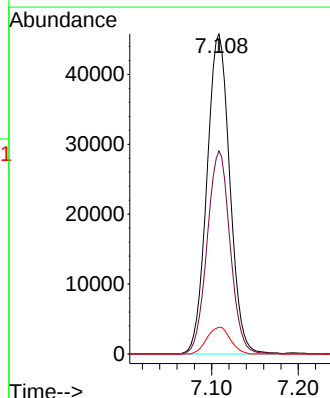
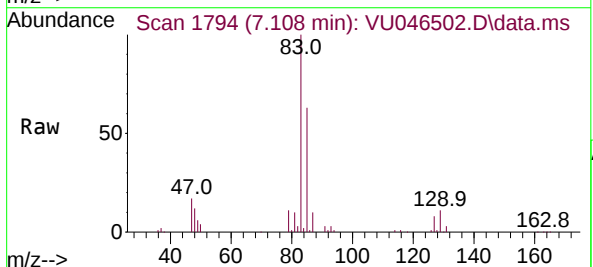
Tgt Ion: 83 Resp: 84127

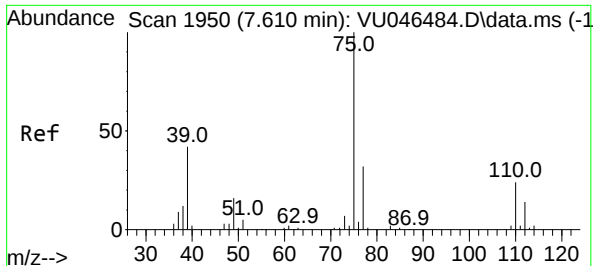
Ion Ratio Lower Upper

83 100

85 63.4 44.4 82.5

127 8.3 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 52.419 ug/L

RT: 7.610 min Scan# 1950

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

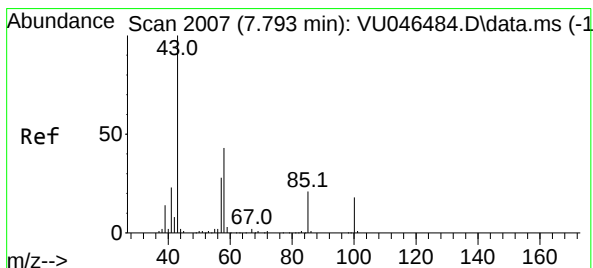
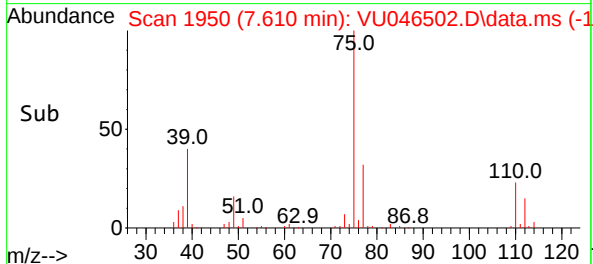
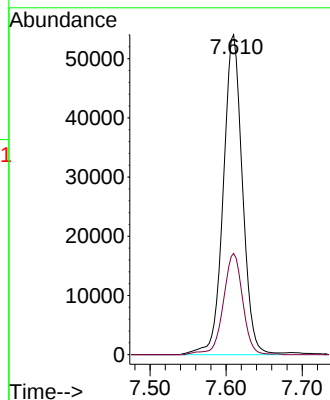
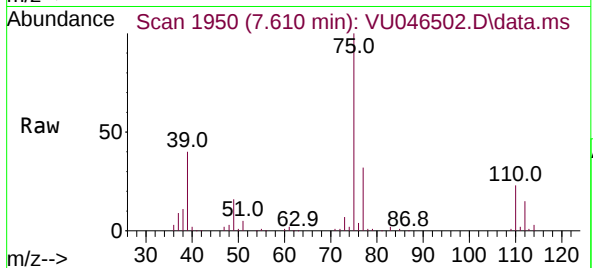
ClientSampleId :

Tgt Ion: 75 Resp: 94505

Ion Ratio Lower Upper

75 100

77 31.7 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 101.748 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

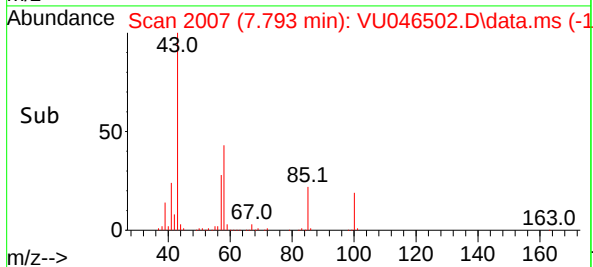
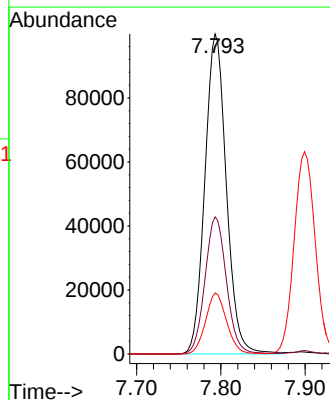
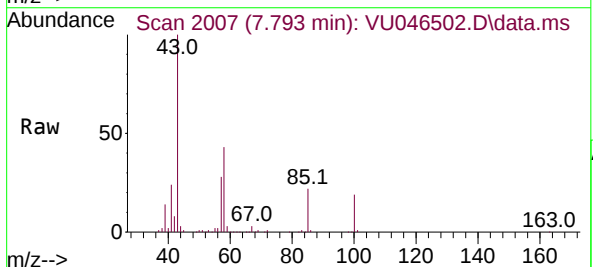
Tgt Ion: 43 Resp: 177164

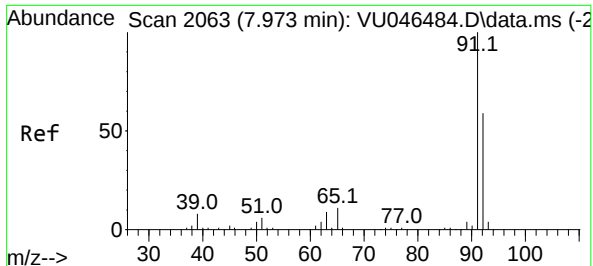
Ion Ratio Lower Upper

43 100

58 42.9 34.2 51.4

100 18.7 14.5 21.7





#42

Toluene

Concen: 52.621 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

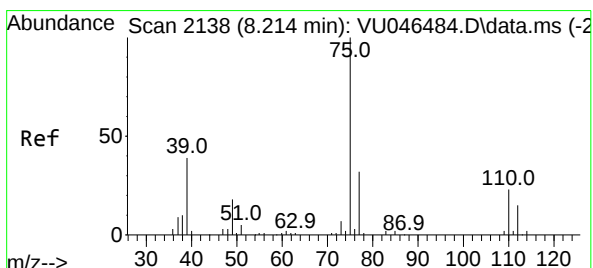
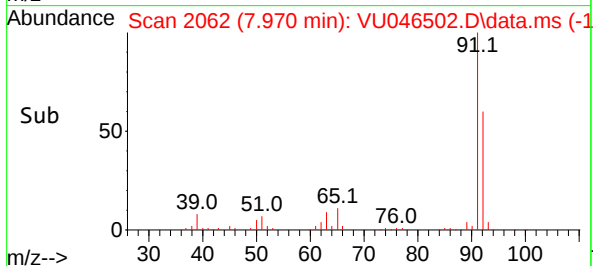
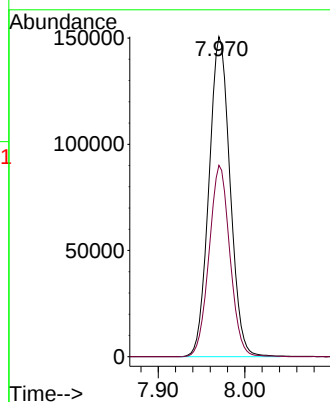
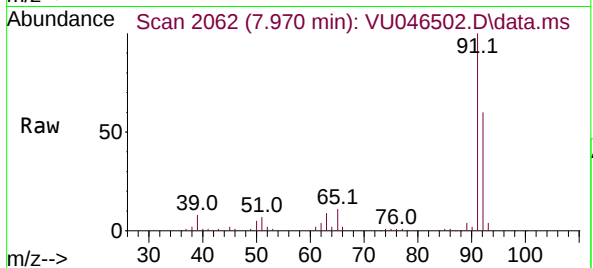
ClientSampleId :

Tgt Ion: 91 Resp: 255442

Ion Ratio Lower Upper

91 100

92 59.8 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 52.752 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. -0.003 min

Lab File: VU046502.D

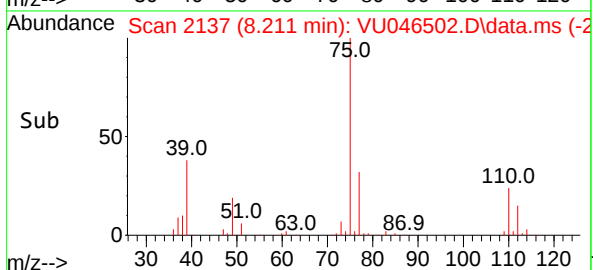
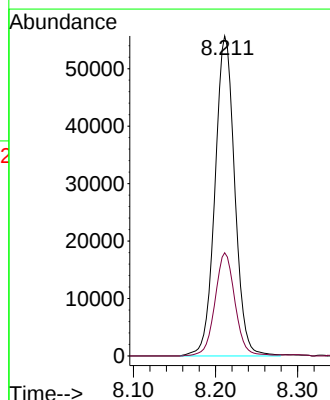
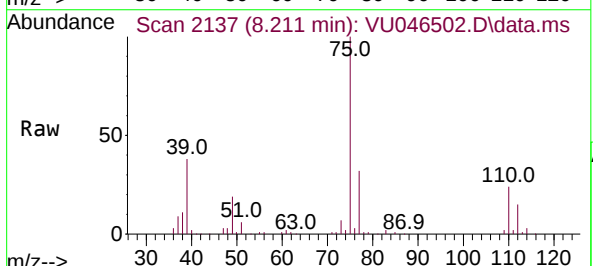
Acq: 19 Dec 2021 18:00

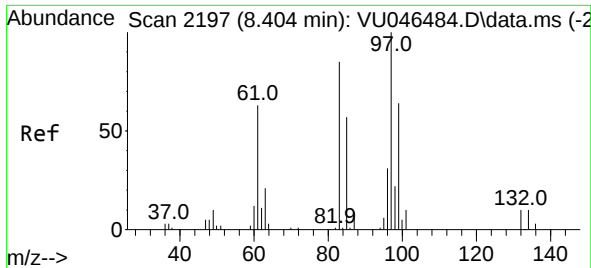
Tgt Ion: 75 Resp: 93409

Ion Ratio Lower Upper

75 100

77 32.3 21.7 40.3



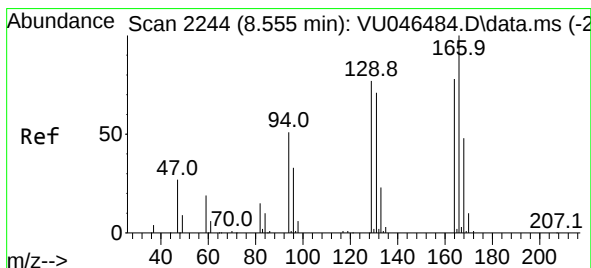
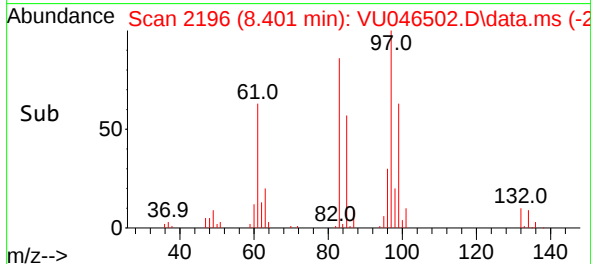
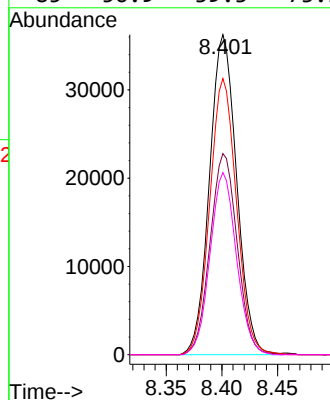
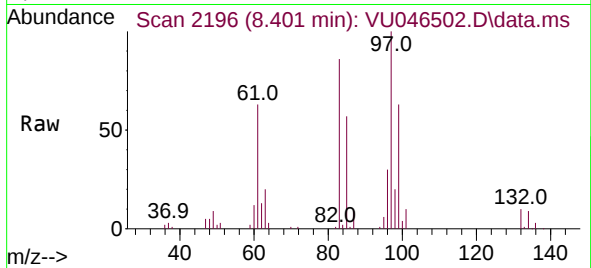


#45  
1,1,2-Trichloroethane  
Concen: 51.766 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 97 Resp: 61548

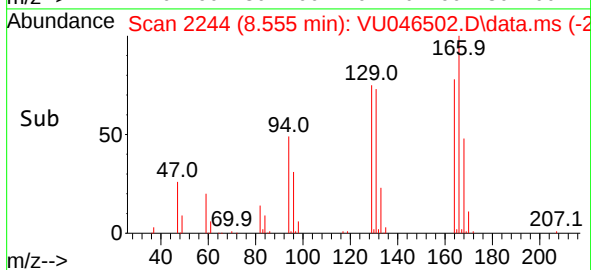
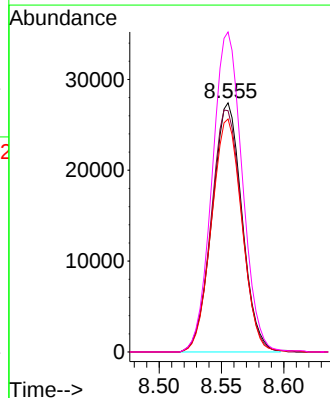
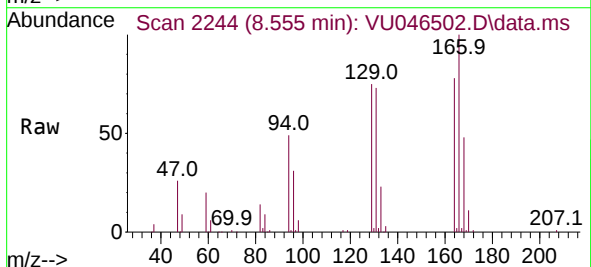
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.9  | 44.7  | 82.9  |
| 83  | 86.3  | 60.2  | 111.8 |
| 85  | 56.9  | 39.3  | 73.1  |

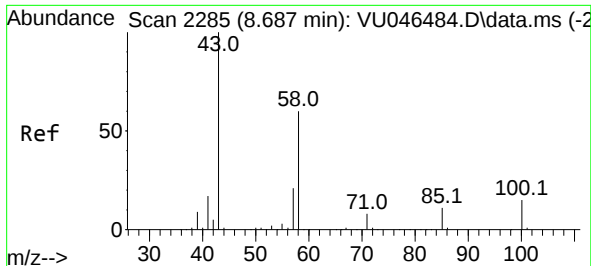


#46  
Tetrachloroethene  
Concen: 52.363 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 164 Resp: 45862

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 96.8  | 71.1  | 132.1 |
| 131 | 93.5  | 67.8  | 126.0 |
| 166 | 128.4 | 90.6  | 168.2 |

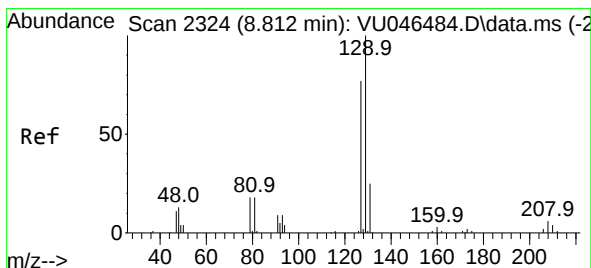
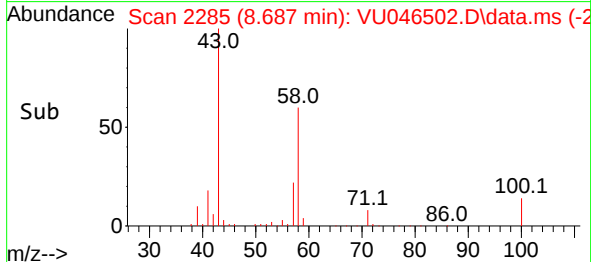
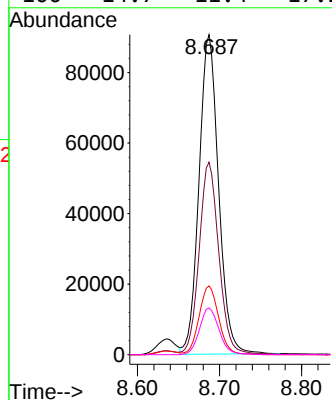
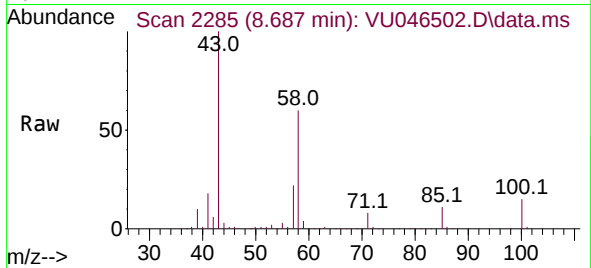




#48  
2-Hexanone  
Concen: 96.308 ug/L  
RT: 8.687 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

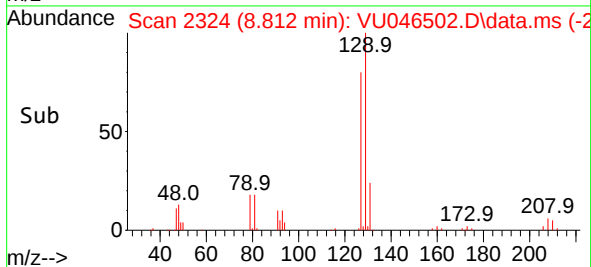
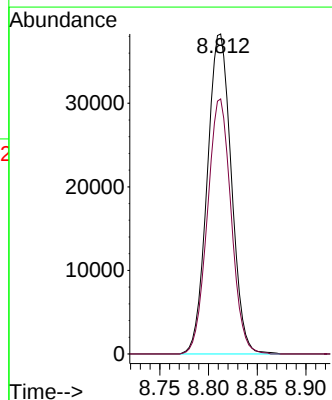
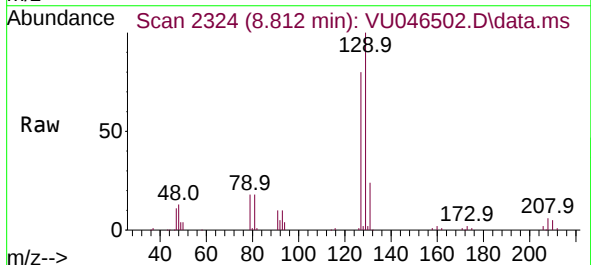
Instrument :  
MSVOA\_U  
ClientSampleId :

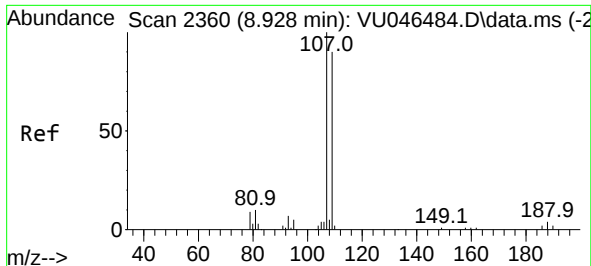
Tgt Ion: 43 Resp: 149971  
Ion Ratio Lower Upper  
43 100  
58 59.9 47.4 71.2  
57 21.6 16.6 25.0  
100 14.7 11.4 17.2



#49  
Dibromochloromethane  
Concen: 52.869 ug/L  
RT: 8.812 min Scan# 2324  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

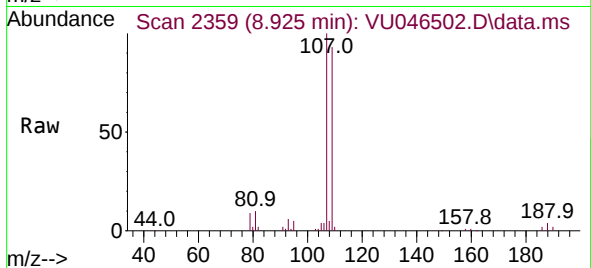
Tgt Ion: 129 Resp: 66010  
Ion Ratio Lower Upper  
129 100  
127 79.7 55.6 103.4



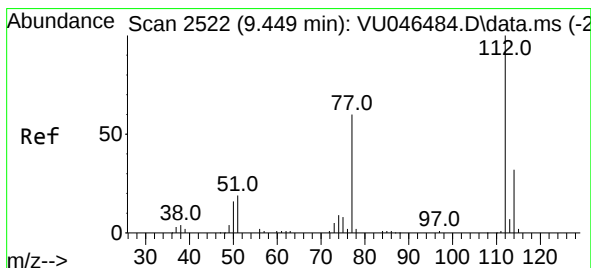
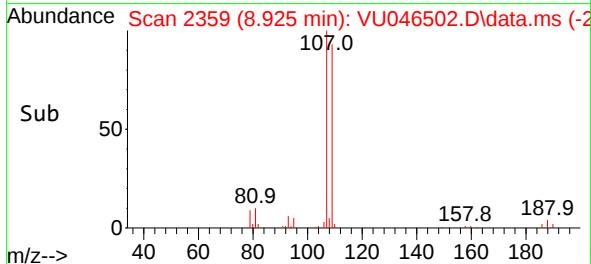
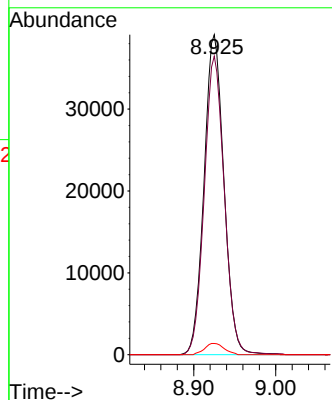


#50  
1,2-Dibromoethane  
Concen: 51.027 ug/L  
RT: 8.925 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Instrument :  
MSVOA\_U  
ClientSampleId :

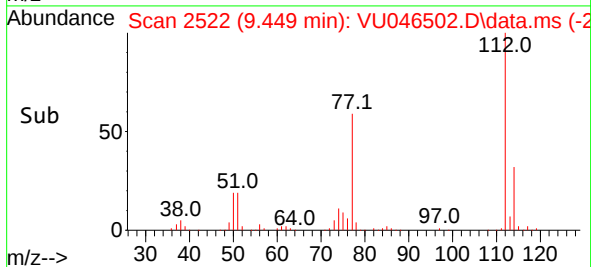
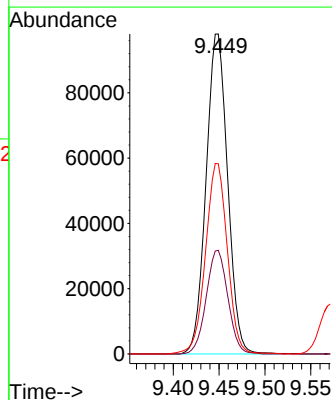
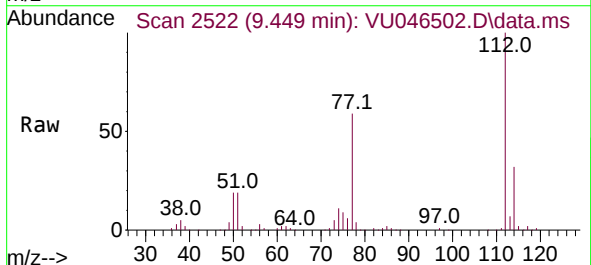


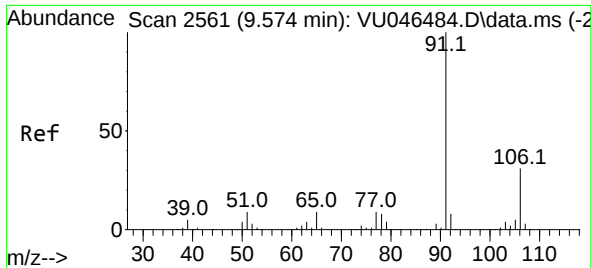
Tgt Ion:107 Resp: 65776  
Ion Ratio Lower Upper  
107 100  
109 93.3 64.9 120.5  
188 3.5 2.6 3.8



#51  
Chlorobenzene  
Concen: 51.036 ug/L  
RT: 9.449 min Scan# 2522  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion:112 Resp: 160283  
Ion Ratio Lower Upper  
112 100  
114 32.4 22.2 41.2  
77 59.5 47.4 71.0

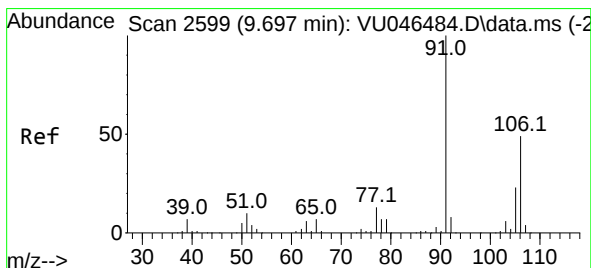
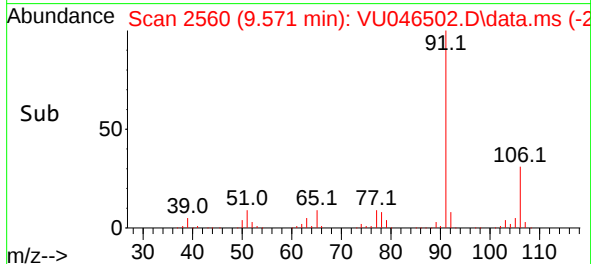
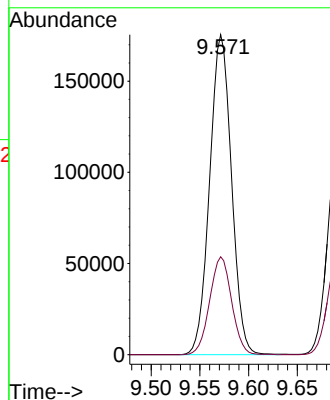
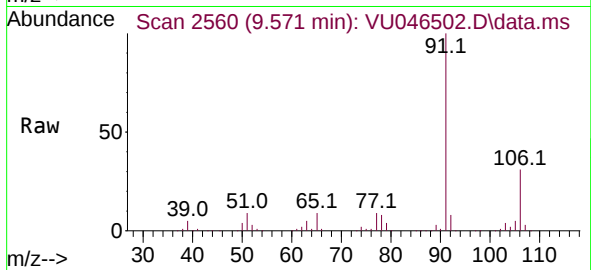




#52  
Ethylbenzene  
Concen: 52.354 ug/L  
RT: 9.571 min Scan# 2561  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

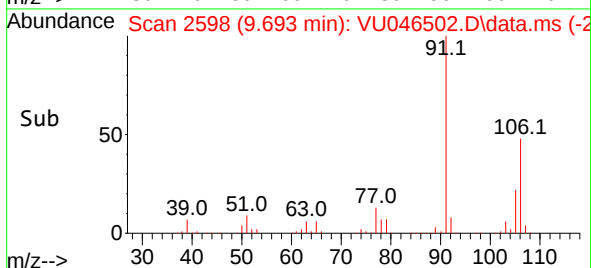
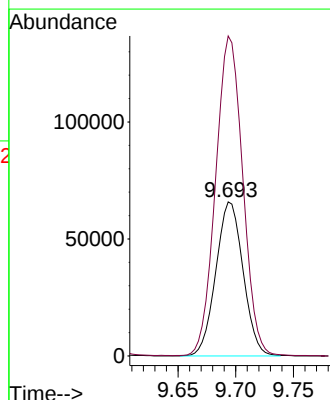
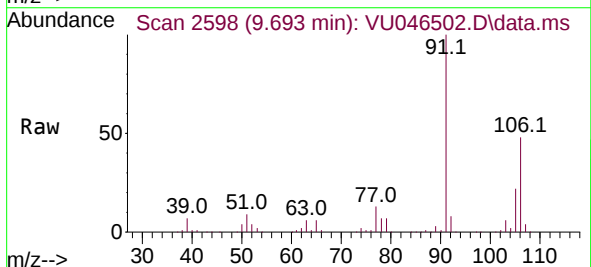
Instrument :  
MSVOA\_U  
ClientSampleId :

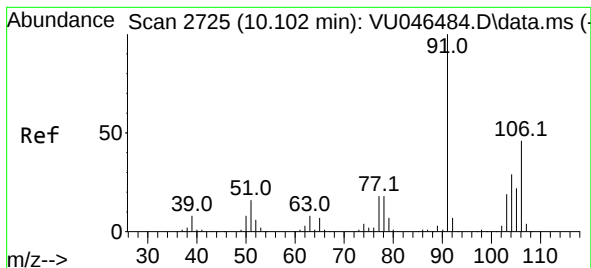
Tgt Ion: 91 Resp: 273517  
Ion Ratio Lower Upper  
91 100  
106 30.6 21.1 39.3



#53  
m,p-Xylene  
Concen: 53.045 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion:106 Resp: 108075  
Ion Ratio Lower Upper  
106 100  
91 207.6 144.3 268.1





#54

o-xylene

Concen: 52.391 ug/L

RT: 10.102 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

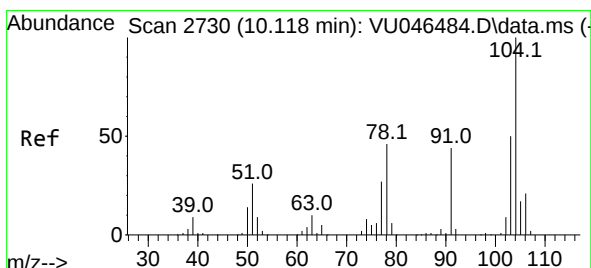
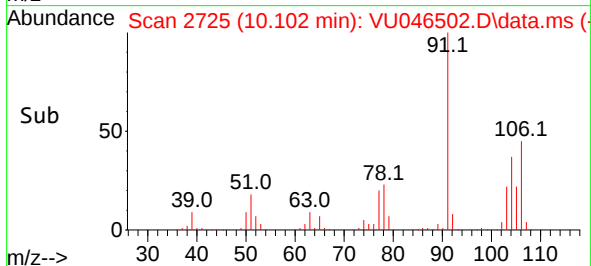
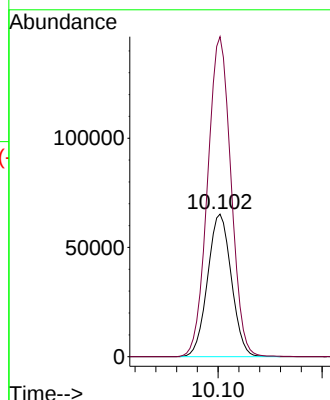
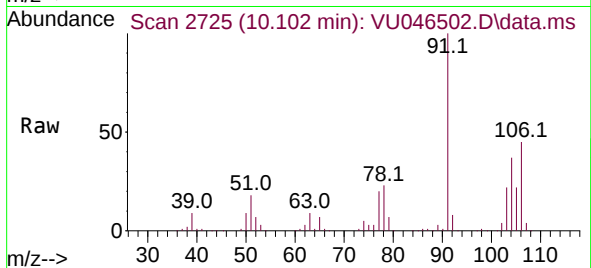
ClientSampleId :

Tgt Ion:106 Resp: 103576

Ion Ratio Lower Upper

106 100

91 224.5 154.2 286.4



#55

Styrene

Concen: 53.825 ug/L

RT: 10.115 min Scan# 2729

Delta R.T. -0.003 min

Lab File: VU046502.D

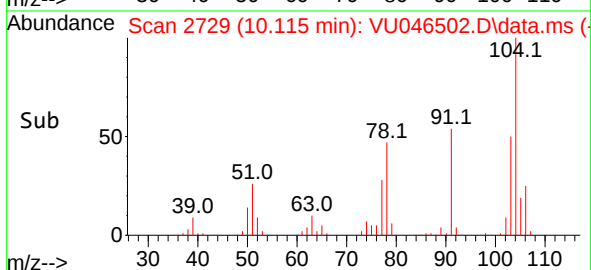
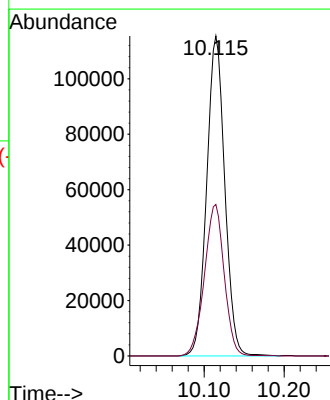
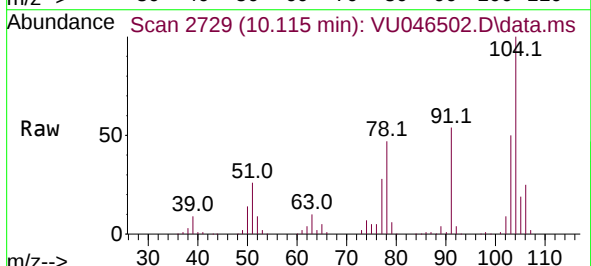
Acq: 19 Dec 2021 18:00

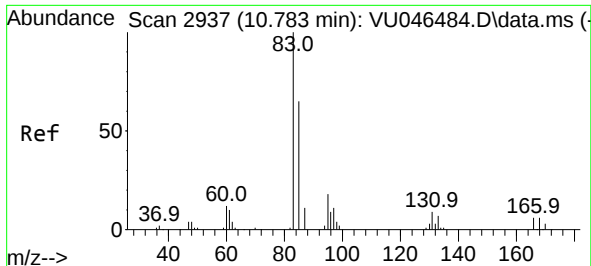
Tgt Ion:104 Resp: 181676

Ion Ratio Lower Upper

104 100

78 47.3 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 52.335 ug/L

RT: 10.783 min Scan# 2937

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

ClientSampleId :

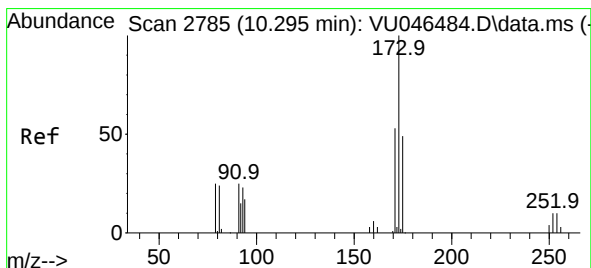
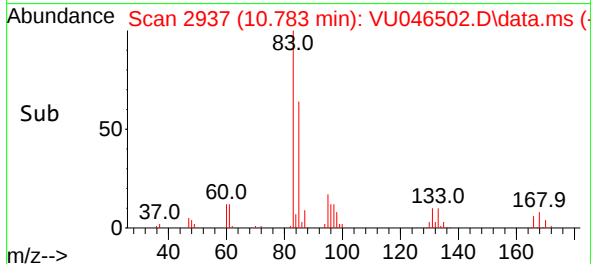
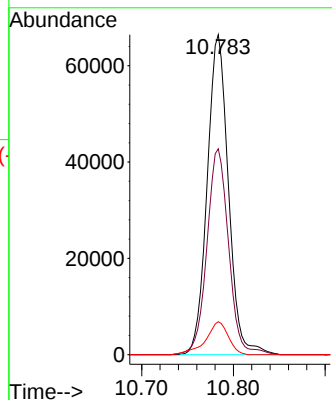
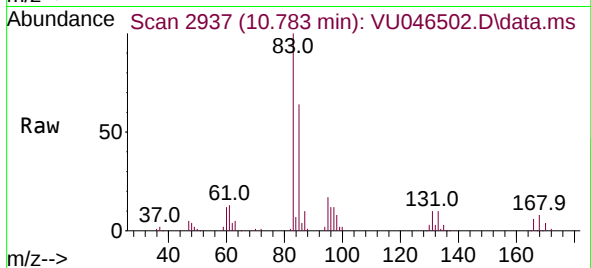
Tgt Ion: 83 Resp: 106681

Ion Ratio Lower Upper

83 100

85 64.4 45.6 84.6

131 10.3 7.8 11.6



#59

Bromoform

Concen: 50.509 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. -0.003 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

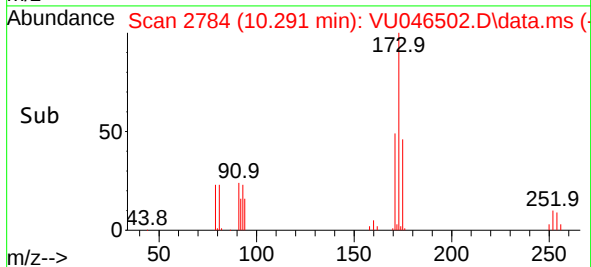
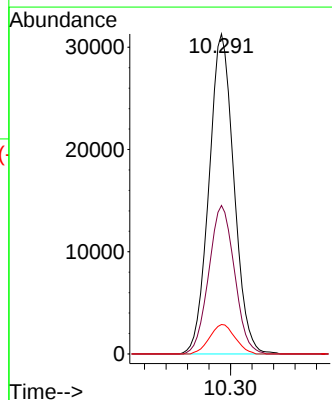
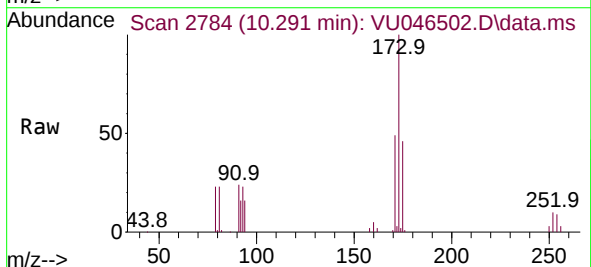
Tgt Ion:173 Resp: 50361

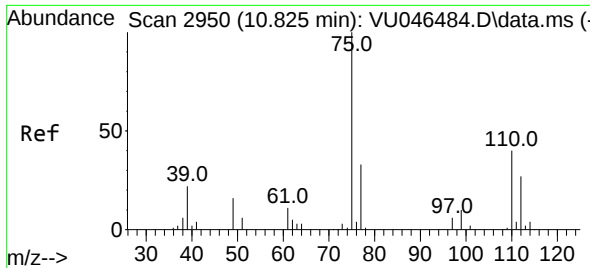
Ion Ratio Lower Upper

173 100

175 47.8 39.2 58.8

254 9.4 7.4 11.2

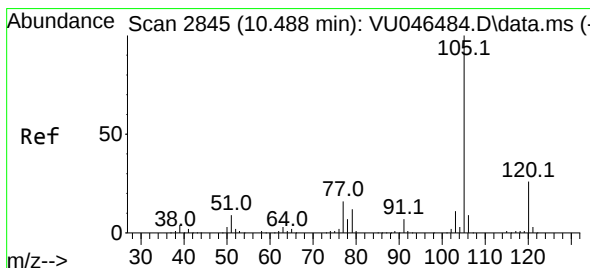
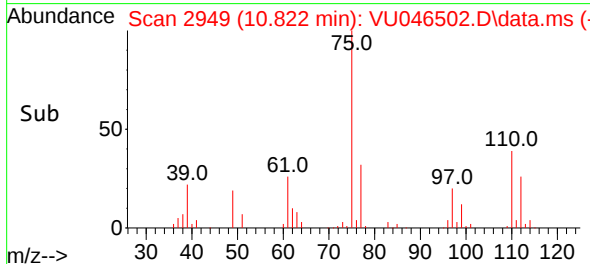
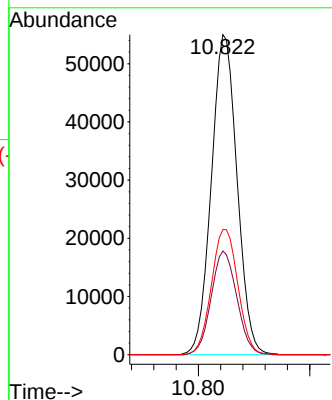
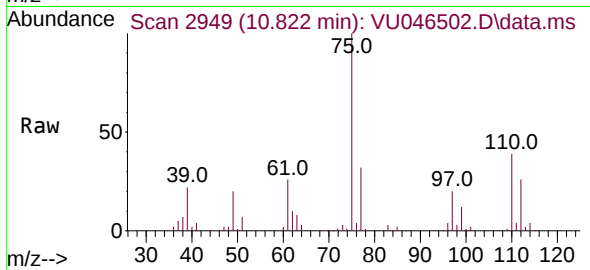




#60  
1,2,3-Trichloropropane  
Concen: 47.330 ug/L  
RT: 10.822 min Scan# 2950  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

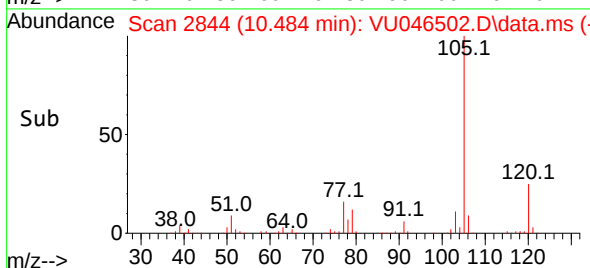
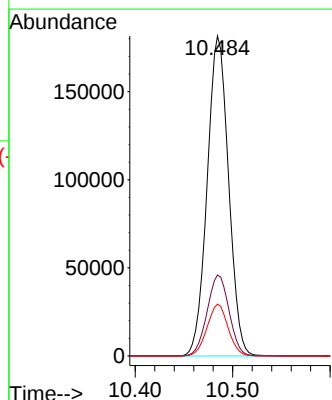
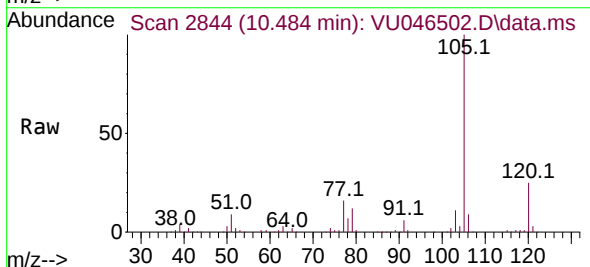
Instrument :  
MSVOA\_U  
ClientSampleId :

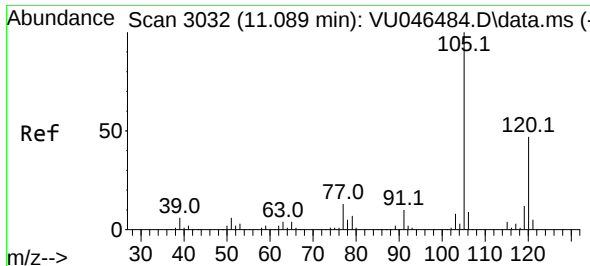
Tgt Ion: 75 Resp: 88181  
Ion Ratio Lower Upper  
75 100  
77 32.3 26.4 39.6  
110 40.3 32.4 48.6



#61  
Isopropylbenzene  
Concen: 50.052 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion: 105 Resp: 276789  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.7 31.1  
77 15.9 12.2 18.4





#62

1,3,5-Trimethylbenzene

Concen: 52.178 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VU046502.D

Acq: 19 Dec 2021 18:00

Instrument :

MSVOA\_U

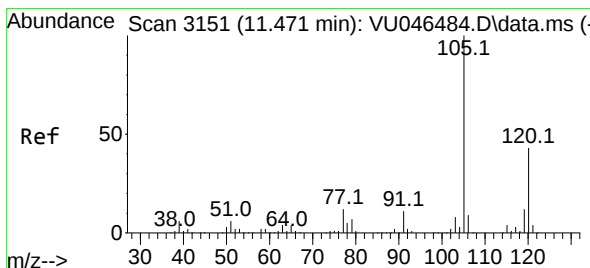
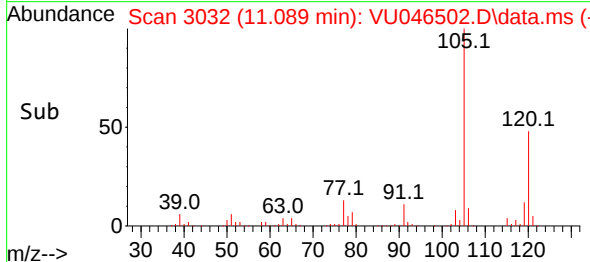
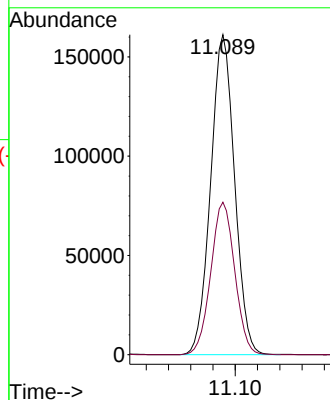
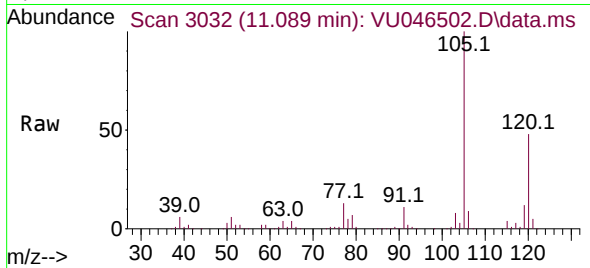
ClientSampleId :

Tgt Ion:105 Resp: 240503

Ion Ratio Lower Upper

105 100

120 47.7 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 52.780 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046502.D

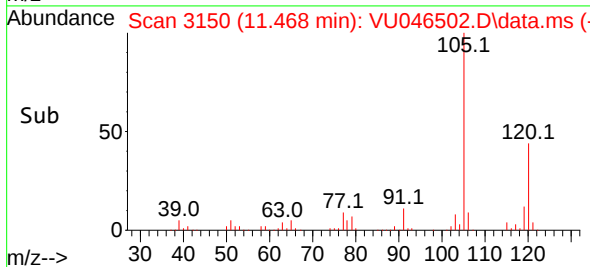
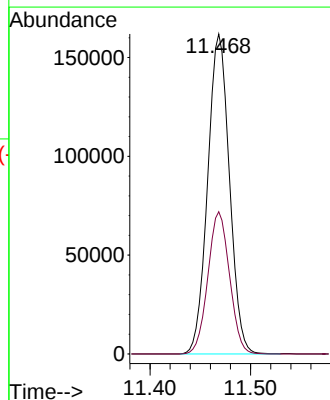
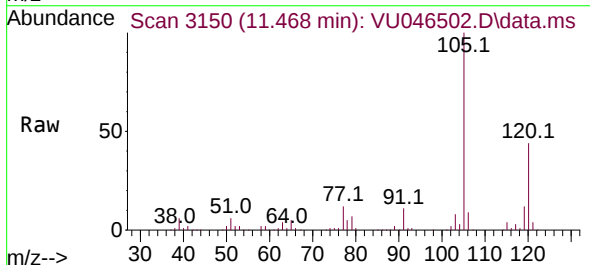
Acq: 19 Dec 2021 18:00

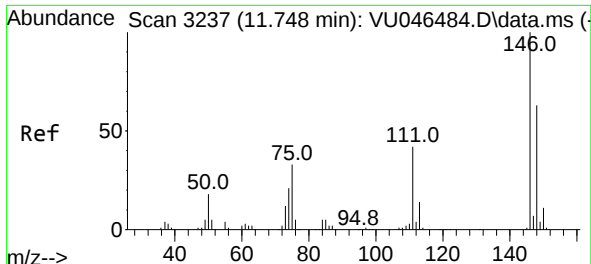
Tgt Ion:105 Resp: 243399

Ion Ratio Lower Upper

105 100

120 44.1 35.2 52.8

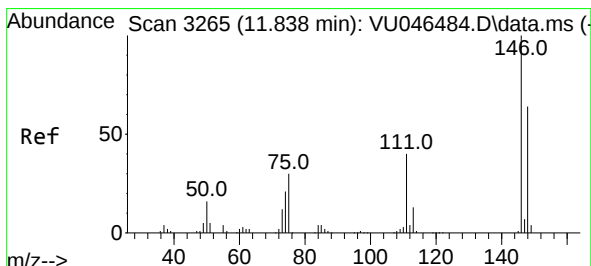
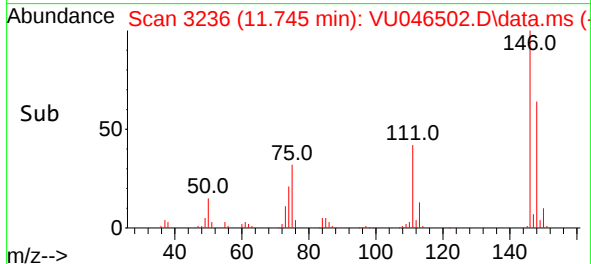
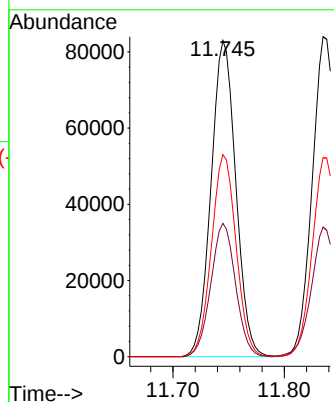
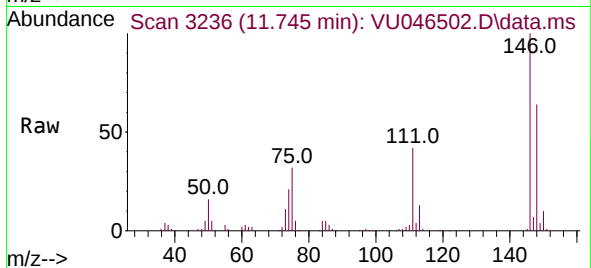




#64  
1,3-Dichlorobenzene  
Concen: 48.837 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

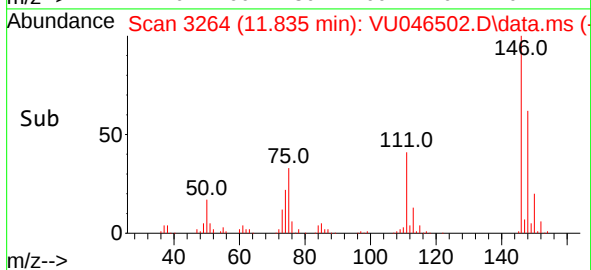
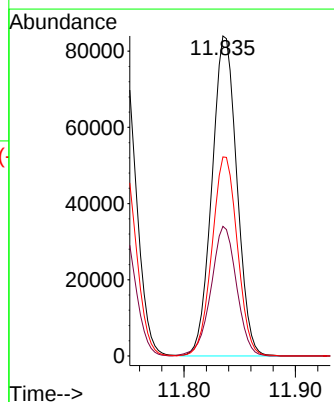
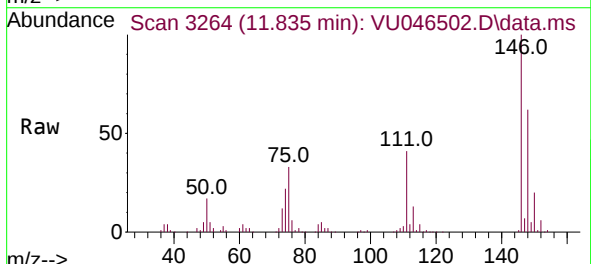
Instrument :  
MSVOA\_U  
ClientSampleId :

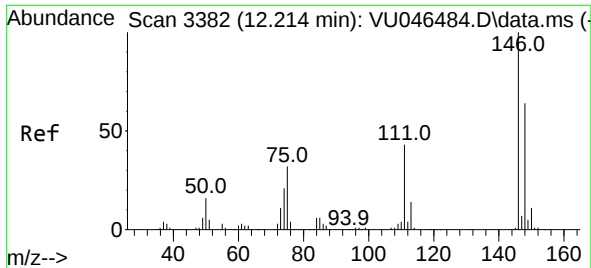
Tgt Ion:146 Resp: 128286  
Ion Ratio Lower Upper  
146 100  
111 42.2 29.5 54.9  
148 63.9 45.9 85.3



#65  
1,4-Dichlorobenzene  
Concen: 48.181 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion:146 Resp: 130803  
Ion Ratio Lower Upper  
146 100  
111 40.5 28.3 52.7  
148 62.2 43.8 81.3

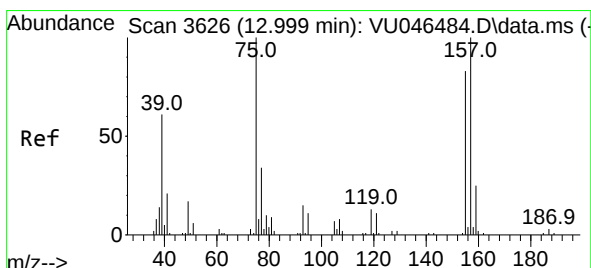
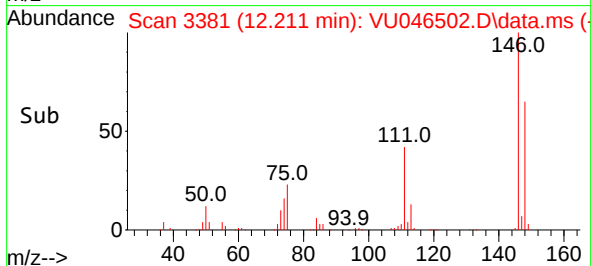
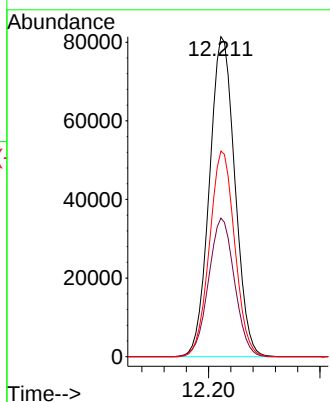
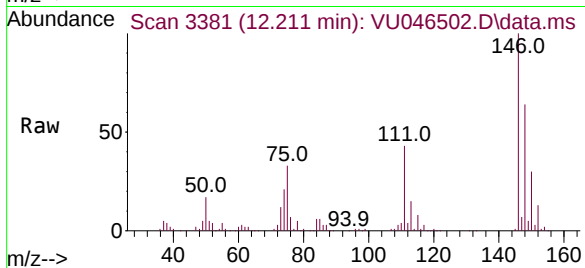




#67  
 1,2-Dichlorobenzene  
 Concen: 48.756 ug/L  
 RT: 12.211 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: VU046502.D  
 Acq: 19 Dec 2021 18:00

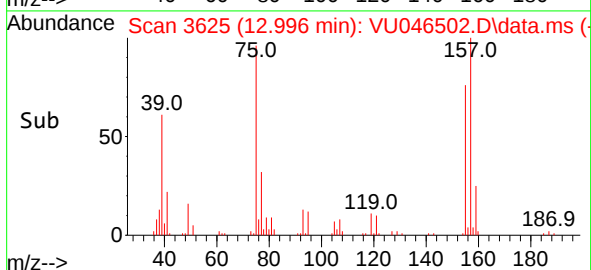
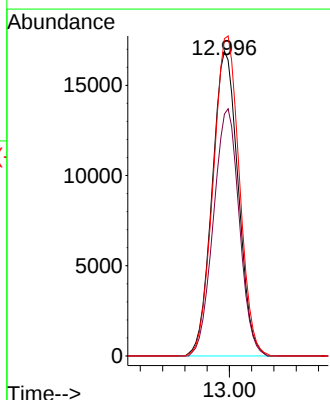
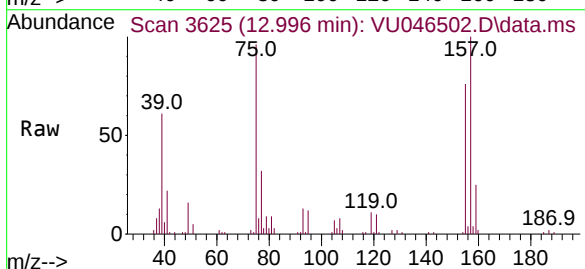
Instrument :  
 MSVOA\_U  
 ClientSampleId :

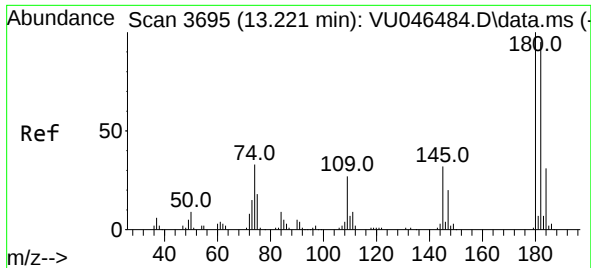
Tgt Ion:146 Resp: 128974  
 Ion Ratio Lower Upper  
 146 100  
 111 43.3 35.7 53.5  
 148 64.2 51.2 76.8



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 55.174 ug/L  
 RT: 12.996 min Scan# 3625  
 Delta R.T. -0.003 min  
 Lab File: VU046502.D  
 Acq: 19 Dec 2021 18:00

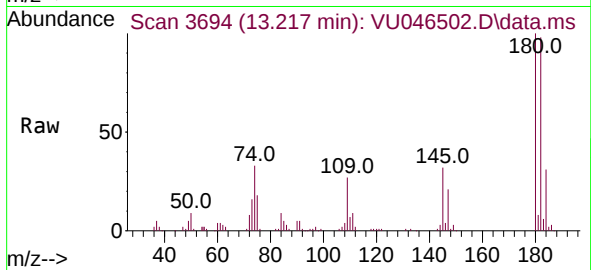
Tgt Ion: 75 Resp: 27385  
 Ion Ratio Lower Upper  
 75 100  
 155 79.3 64.9 97.3  
 157 104.0 81.9 122.9



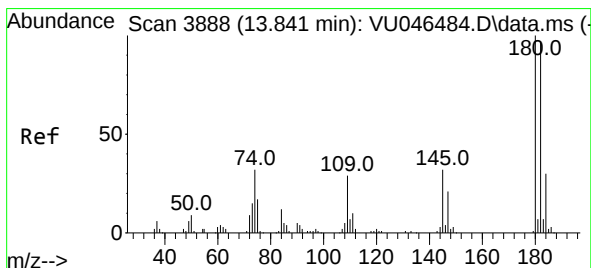
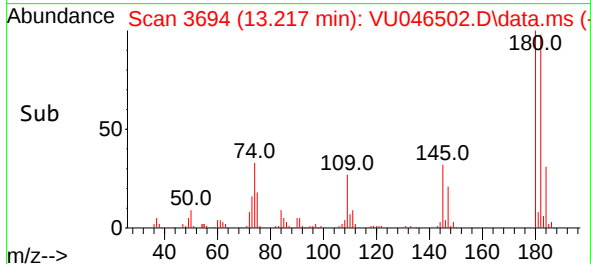
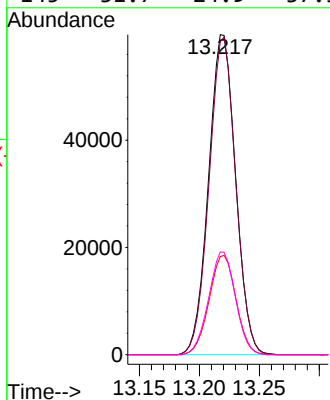


#69  
 1,3,5-Trichlorobenzene  
 Concen: 48.855 ug/L  
 RT: 13.217 min Scan# 3694  
 Delta R.T. -0.003 min  
 Lab File: VU046502.D  
 Acq: 19 Dec 2021 18:00

Instrument :  
 MSVOA\_U  
 ClientSampleId :

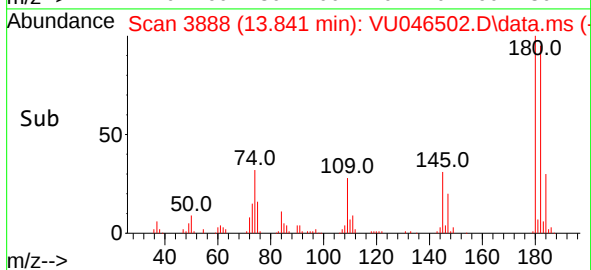
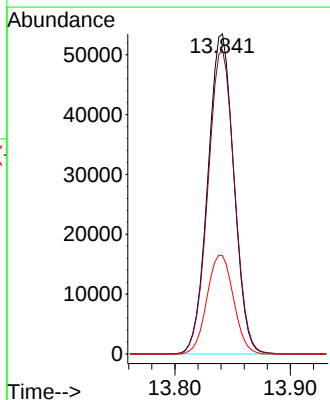
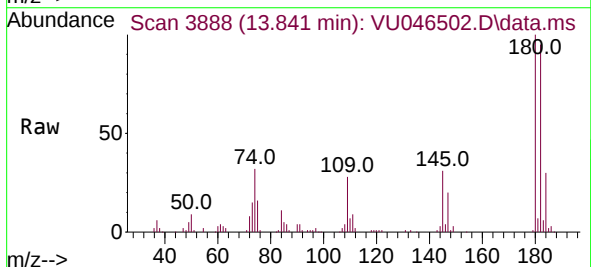


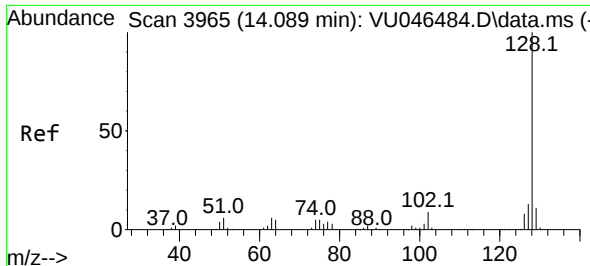
Tgt Ion:180 Resp: 93509  
 Ion Ratio Lower Upper  
 180 100  
 182 97.2 75.9 113.9  
 184 30.8 24.2 36.4  
 145 31.7 24.9 37.3



#70  
 1,2,4-trichlorobenzene  
 Concen: 49.252 ug/L  
 RT: 13.841 min Scan# 3888  
 Delta R.T. 0.000 min  
 Lab File: VU046502.D  
 Acq: 19 Dec 2021 18:00

Tgt Ion:180 Resp: 83652  
 Ion Ratio Lower Upper  
 180 100  
 182 96.9 76.7 115.1  
 145 31.5 26.0 39.0

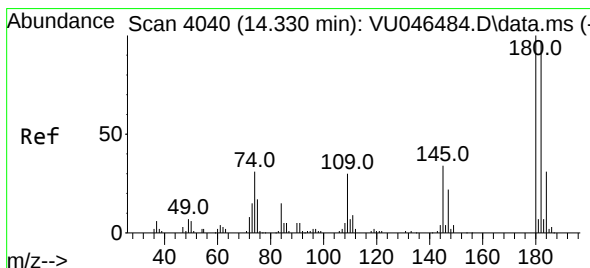
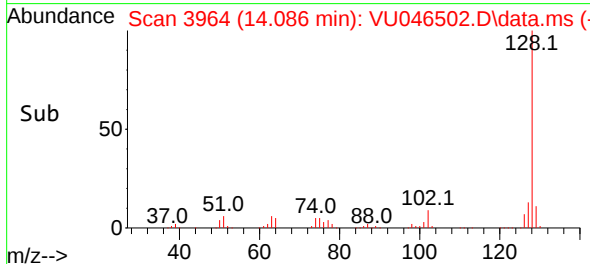
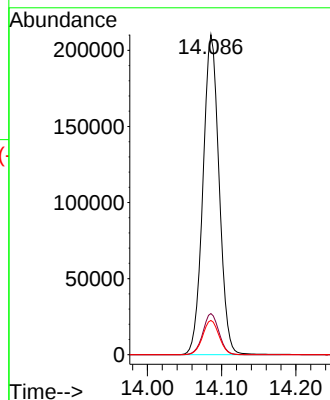
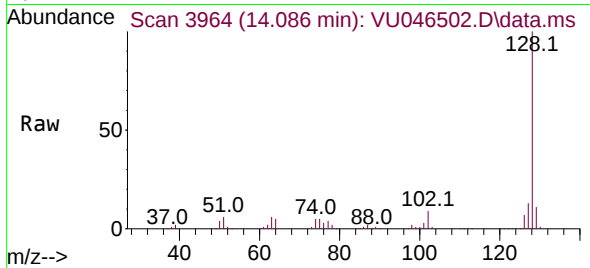




#71  
Naphthalene  
Concen: 53.694 ug/L  
RT: 14.086 min Scan# 3965  
Delta R.T. -0.003 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:128 Resp: 317353  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.1 15.1  
129 10.9 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 51.918 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.000 min  
Lab File: VU046502.D  
Acq: 19 Dec 2021 18:00

Tgt Ion:180 Resp: 89921  
Ion Ratio Lower Upper  
180 100  
182 94.9 76.0 114.0  
145 33.5 27.3 40.9

