

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032422\  
 Data File : VU047650.D  
 Acq On : 24 Mar 2022 22:16  
 Operator : SY/MD  
 Sample : N2081-09MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 24 23:51:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 24 23:34:42 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 199572   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 205889   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 121463   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 67328    | 46.522   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 93.040%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 53973    | 47.297   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 94.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.575   | 63    | 113301   | 42.790   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 85.580%  |
| 21) 2-Butanone-d5             | 4.639   | 46    | 140897   | 113.427  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 113.430% |
| 24) Chloroform-d              | 5.067   | 84    | 126777   | 47.876   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.760%  |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 78424    | 48.288   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.580%  |
| 32) Benzene-d6                | 5.729   | 84    | 253012   | 48.837   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.680%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 79379    | 49.891   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 99.780%  |
| 41) Toluene-d8                | 7.899   | 98    | 242661   | 48.075   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.140%  |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 38467    | 47.722   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 95.440%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 99973    | 107.336  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 107.340% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 128944   | 47.223   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 94.440%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 104630   | 48.419   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.840%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.388   | 85    | 45769    | 24.737   | ug/L   | 100      |
| 3) Chloromethane              | 1.523   | 50    | 50816    | 28.719   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.607   | 62    | 50176    | 27.804   | ug/L   | 100      |
| 6) Bromomethane               | 1.861   | 94    | 28460    | 29.301   | ug/L   | 94       |
| 8) Chloroethane               | 1.938   | 64    | 30442    | 26.872   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.144   | 101   | 62413    | 24.526   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.588   | 101   | 35681    | 24.257   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.584   | 96    | 43636    | 31.875   | ug/L   | 88       |
| 13) Acetone                   | 2.652   | 43    | 68427    | 59.194   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.800   | 76    | 121462   | 28.069   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.961   | 43    | 51686    | 28.040   | ug/L   | 98       |
| 16) Methylene chloride        | 3.051   | 84    | 44588    | 28.383   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 41385    | 28.028   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.366   | 73    | 109710   | 26.336   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.874   | 63    | 170979   | 67.141   | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 89290    | 55.159   | ug/L   | 91       |
| 22) 2-Butanone                | 4.719   | 43    | 87546    | 58.792   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.980   | 128   | 25628    | 28.835   | ug/L   | 97       |
| 25) Chloroform                | 5.092   | 83    | 78120    | 28.493   | ug/L   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032422\  
 Data File : VU047650.D  
 Acq On : 24 Mar 2022 22:16  
 Operator : SY/MD  
 Sample : N2081-09MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

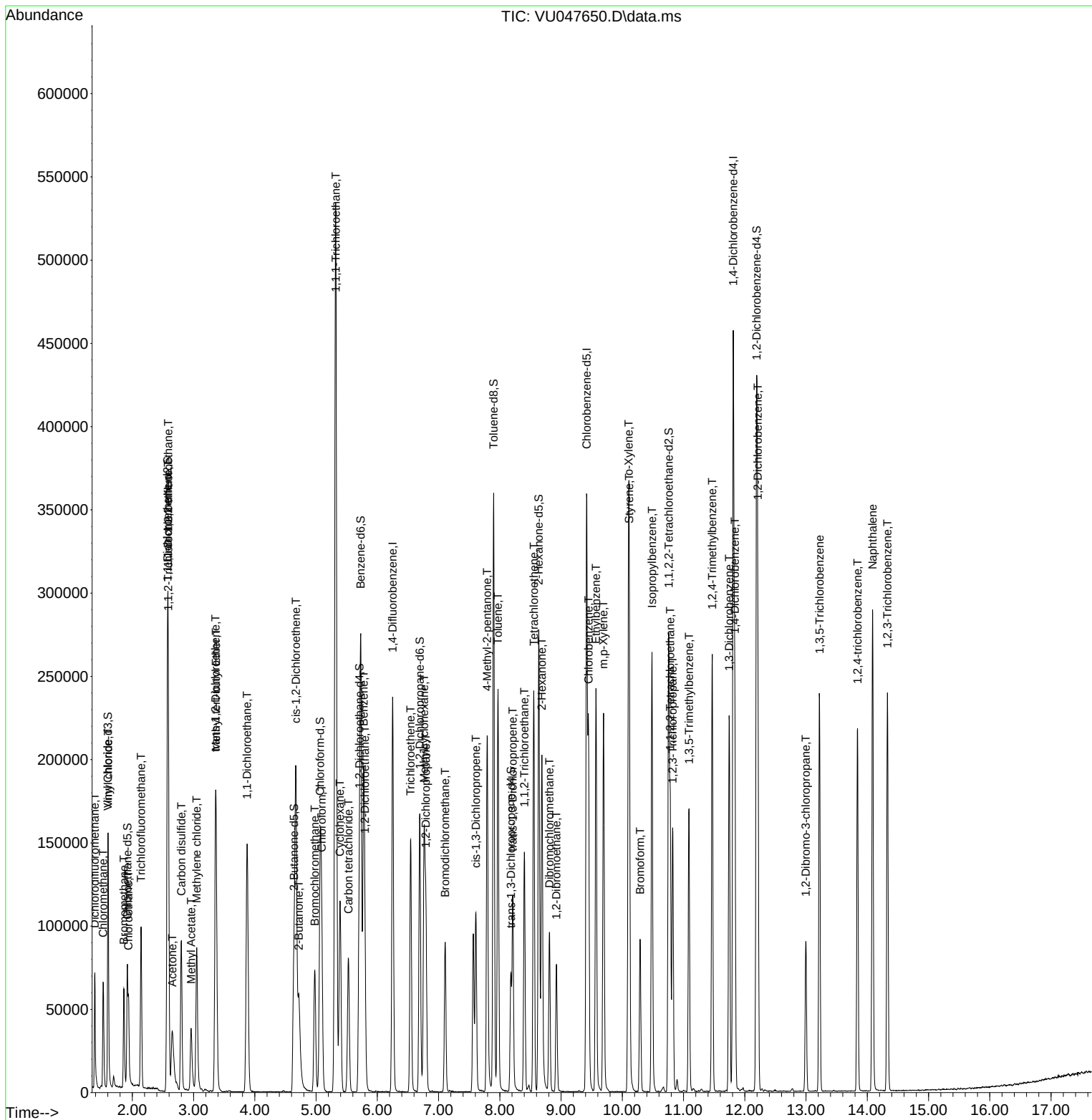
Instrument :  
 MSVOA\_U  
 ClientSampleId :

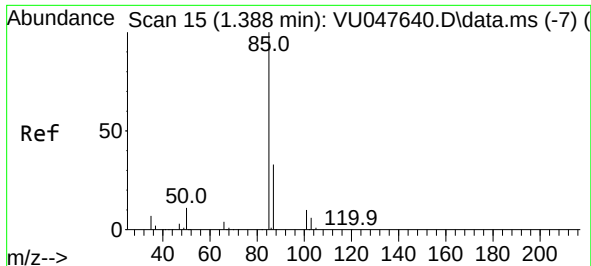
Quant Time: Mar 24 23:51:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 24 23:34:42 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.796  | 62   | 58279    | 27.513  | ug/L  | 97       |
| 29) Cyclohexane               | 5.391  | 56   | 55156    | 26.401  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 5.321  | 97   | 386931   | 165.740 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.526  | 117  | 54333    | 25.773  | ug/L  | 100      |
| 33) Benzene                   | 5.777  | 78   | 164536   | 27.609  | ug/L  | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 50698    | 32.449  | ug/L  | 100      |
| 35) Methylcyclohexane         | 6.764  | 83   | 60135    | 25.299  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 41617    | 27.470  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.108  | 83   | 58499    | 28.119  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 62428    | 26.557  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 139228   | 58.146  | ug/L  | 98       |
| 42) Toluene                   | 7.970  | 91   | 176754   | 27.031  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 64582    | 27.516  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 44913    | 27.953  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.555  | 164  | 56822    | 40.470  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.687  | 43   | 126365   | 61.352  | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.812  | 129  | 48960    | 26.309  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 49308    | 27.374  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.449  | 112  | 118019   | 26.581  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 173205   | 25.191  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.693  | 106  | 67361    | 24.969  | ug/L  | 92       |
| 54) o-Xylene                  | 10.102 | 106  | 66463    | 25.101  | ug/L  | 96       |
| 55) Styrene                   | 10.115 | 104  | 116241   | 25.713  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 82725    | 27.463  | ug/L  | 99       |
| 59) Bromoform                 | 10.291 | 173  | 42339    | 27.260  | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 64949    | 28.365  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.484 | 105  | 173475   | 26.426  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 91875    | 25.795  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 143405   | 26.507  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 97460    | 26.711  | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 97901    | 25.905  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 101228   | 27.727  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 20938    | 28.547  | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 77043    | 25.999  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 71537    | 27.562  | ug/L  | 99       |
| 71) Naphthalene               | 14.089 | 128  | 238405   | 30.809  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 78714    | 30.252  | ug/L  | 99       |

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

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Response via : Initial Calibration

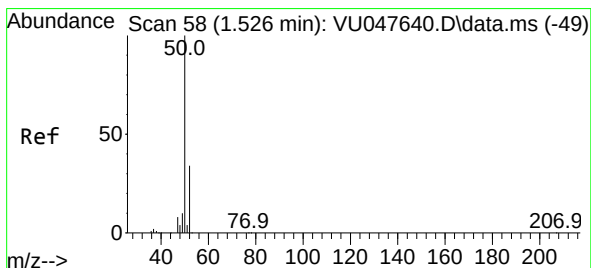
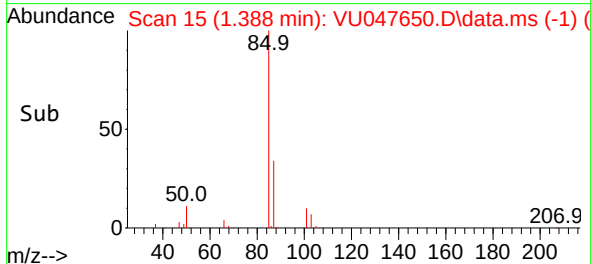
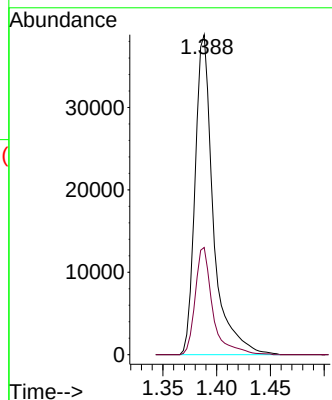
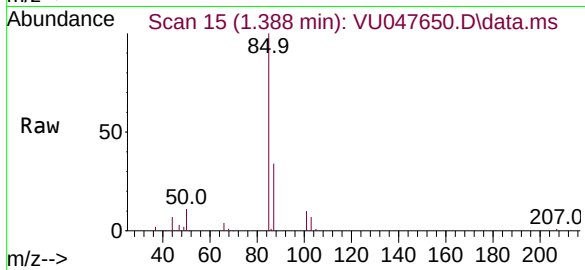




#2  
Dichlorodifluoromethane  
Concen: 24.737 ug/L  
RT: 1.388 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

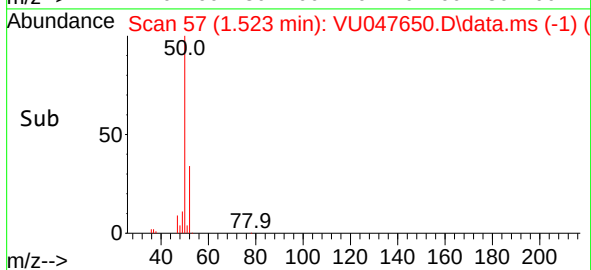
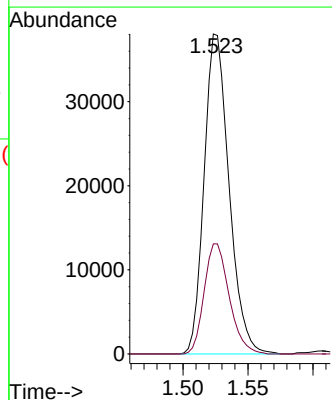
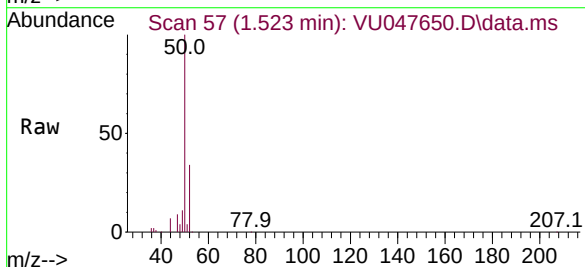
Instrument :  
MSVOA\_U  
ClientSampleId :

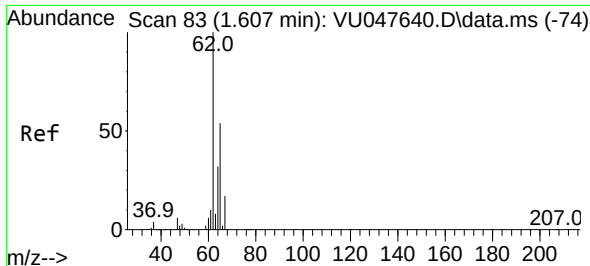
Tgt Ion: 85 Resp: 45769  
Ion Ratio Lower Upper  
85 100  
87 32.3 25.8 38.8



#3  
Chloromethane  
Concen: 28.719 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. -0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

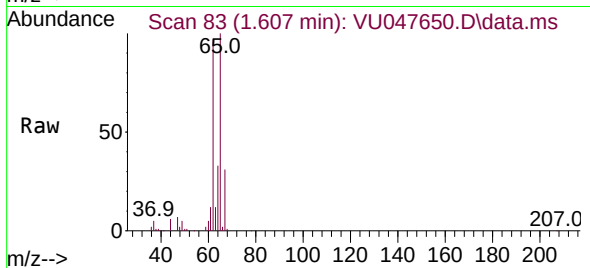
Tgt Ion: 50 Resp: 50816  
Ion Ratio Lower Upper  
50 100  
52 34.4 23.2 43.2



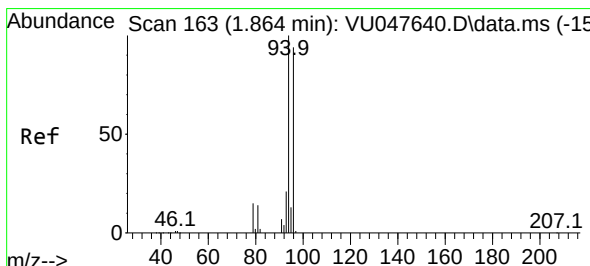
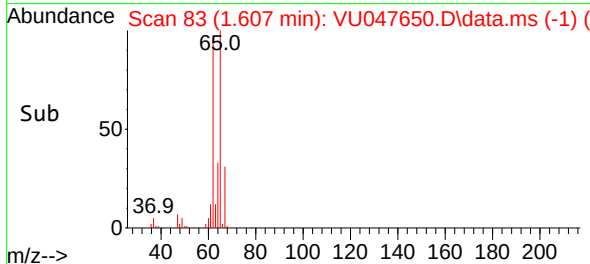
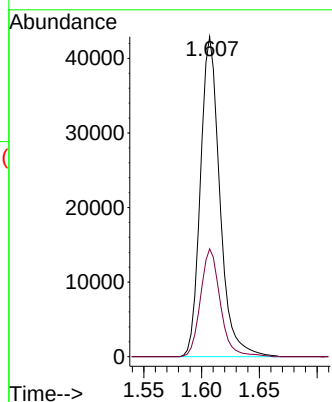


#5  
 Vinyl chloride  
 Concen: 27.804 ug/L  
 RT: 1.607 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :

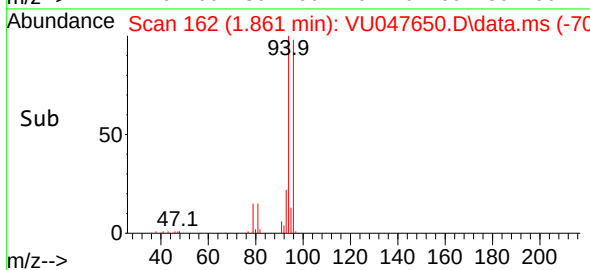
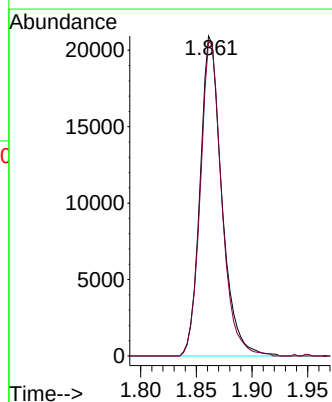
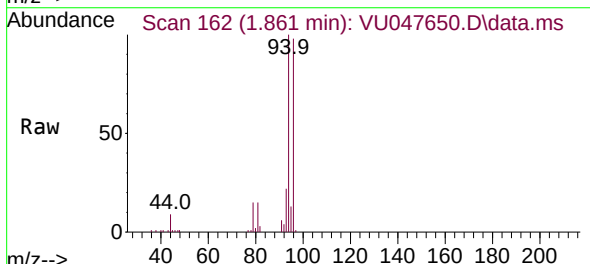


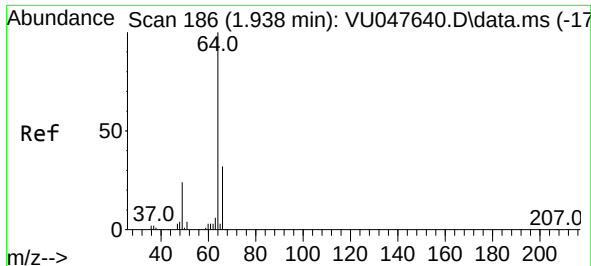
Tgt Ion: 62 Resp: 50176  
 Ion Ratio Lower Upper  
 62 100  
 64 33.7 23.7 43.9



#6  
 Bromomethane  
 Concen: 29.301 ug/L  
 RT: 1.861 min Scan# 162  
 Delta R.T. -0.003 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

Tgt Ion: 94 Resp: 28460  
 Ion Ratio Lower Upper  
 94 100  
 96 98.1 64.8 120.3

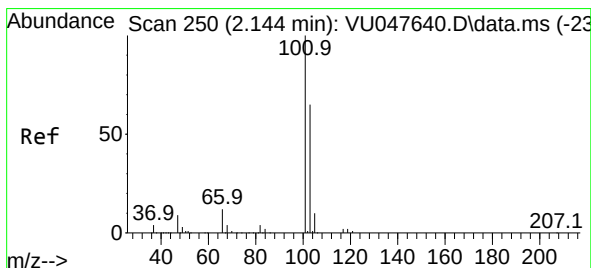
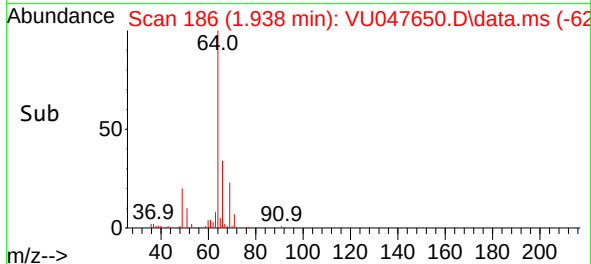
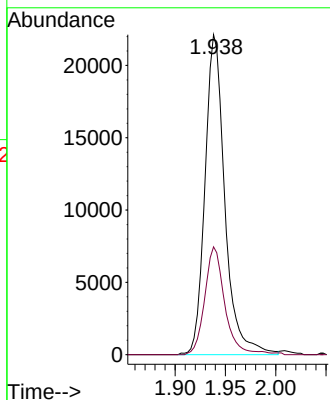
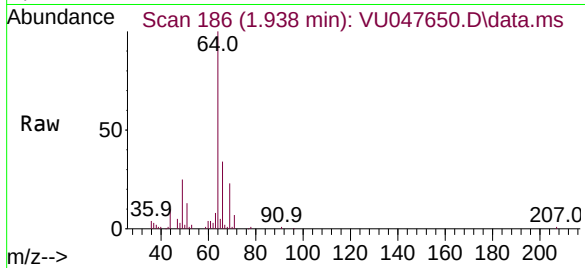




#8  
Chloroethane  
Concen: 26.872 ug/L  
RT: 1.938 min Scan# 186  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

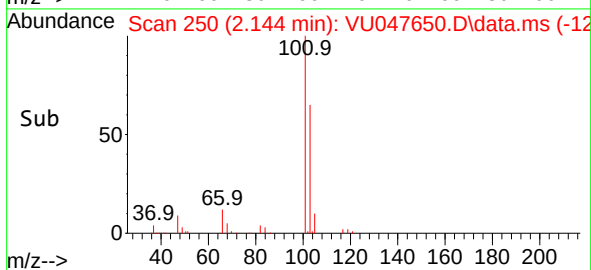
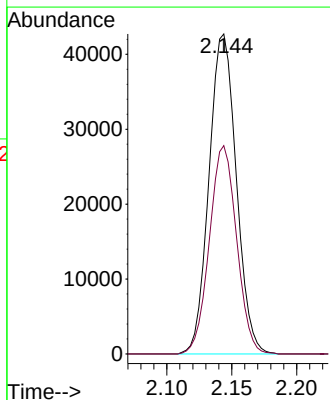
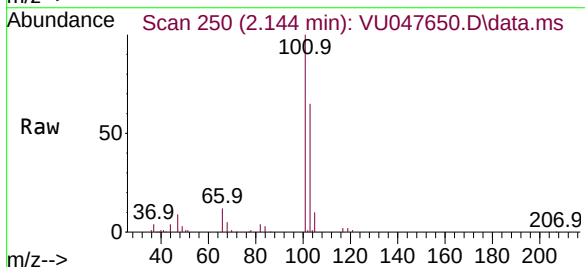
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MSVOA\_U  
ClientSampleId :

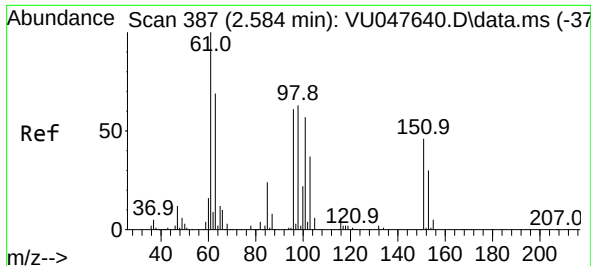
Tgt Ion: 64 Resp: 30442  
Ion Ratio Lower Upper  
64 100  
66 33.7 23.3 43.3



#9  
Trichlorofluoromethane  
Concen: 24.526 ug/L  
RT: 2.144 min Scan# 250  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion: 101 Resp: 62413  
Ion Ratio Lower Upper  
101 100  
103 64.9 51.4 77.2

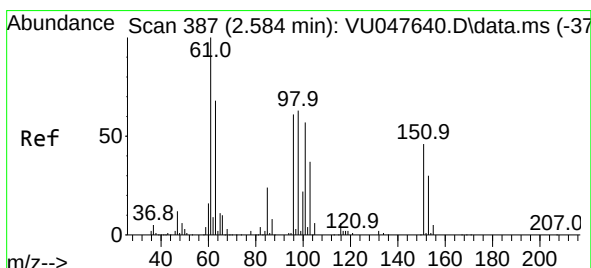
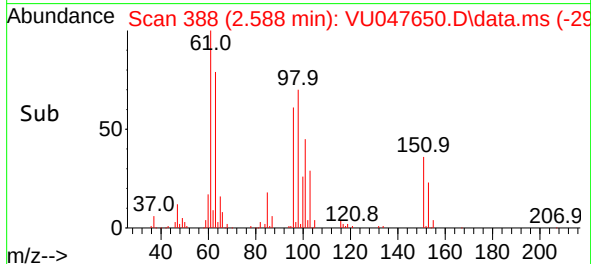
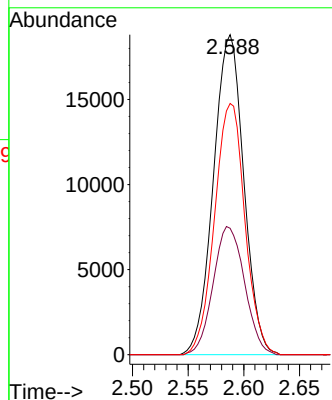
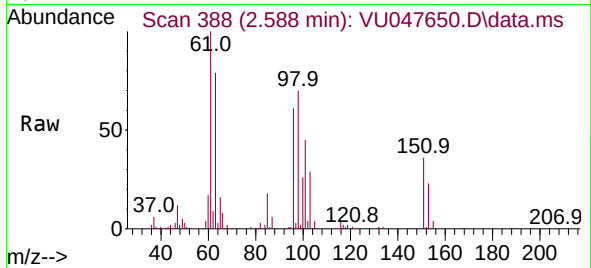




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 24.257 ug/L  
 RT: 2.588 min Scan# 388  
 Delta R.T. 0.003 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

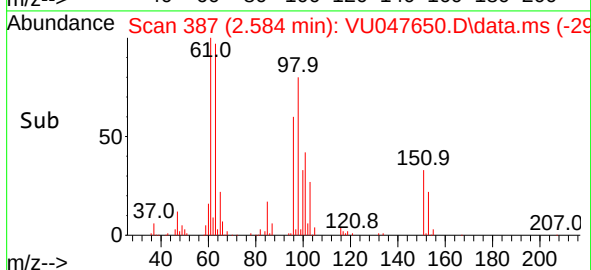
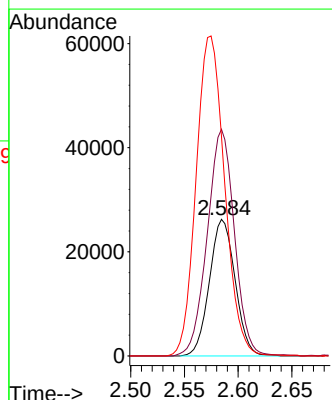
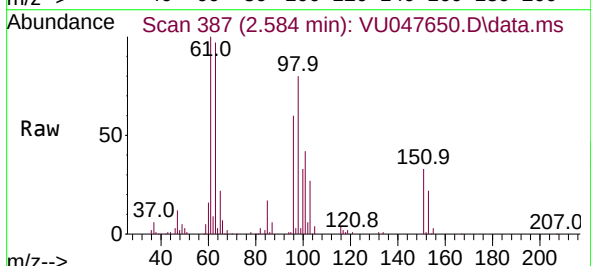
Instrument :  
 MSVOA\_U  
 ClientSampleId :

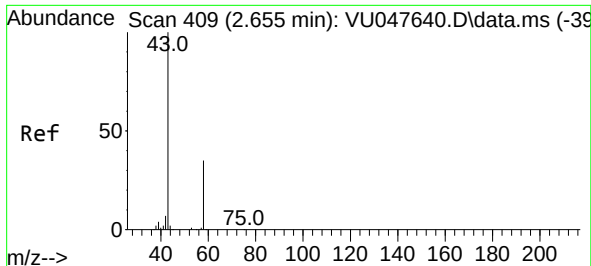
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 Ion Ratio Lower Upper  
 101 100  
 85 41.4 32.8 49.2  
 151 78.5 63.0 94.6



#12  
 1,1-Dichloroethene  
 Concen: 31.875 ug/L  
 RT: 2.584 min Scan# 387  
 Delta R.T. 0.000 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

Tgt Ion: 96 Resp: 43636  
 Ion Ratio Lower Upper  
 96 100  
 61 166.0 113.1 210.1  
 63 160.9 94.8 176.0





#13

Acetone

Concen: 59.194 ug/L

RT: 2.652 min Scan# 409

Delta R.T. -0.003 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

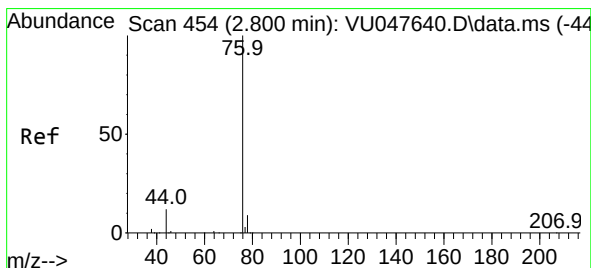
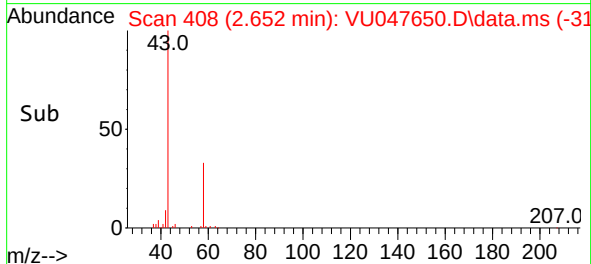
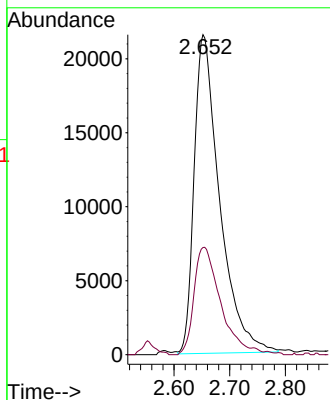
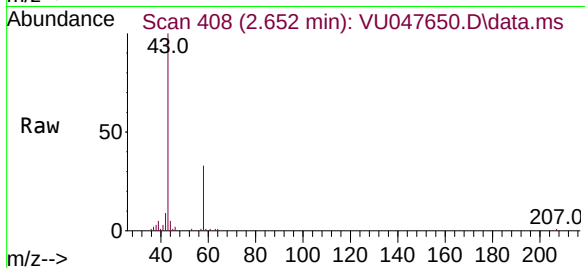
ClientSampleId :

Tgt Ion: 43 Resp: 68427

Ion Ratio Lower Upper

43 100

58 34.5 0.0 70.0



#14

Carbon disulfide

Concen: 28.069 ug/L

RT: 2.800 min Scan# 454

Delta R.T. 0.000 min

Lab File: VU047650.D

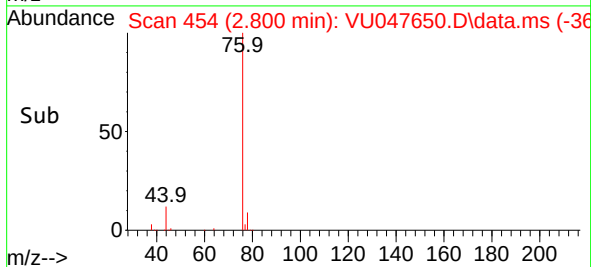
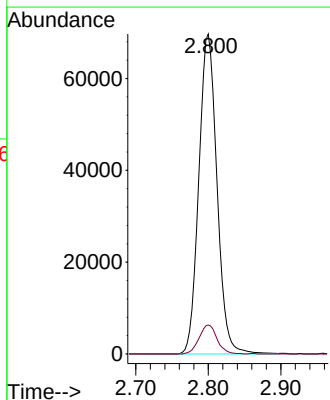
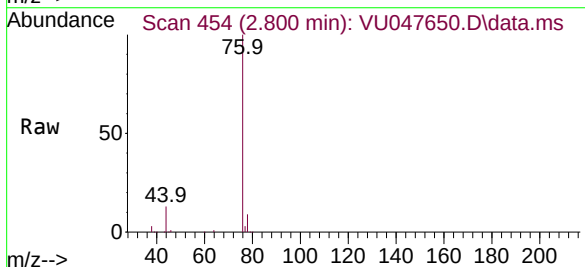
Acq: 24 Mar 2022 22:16

Tgt Ion: 76 Resp: 121462

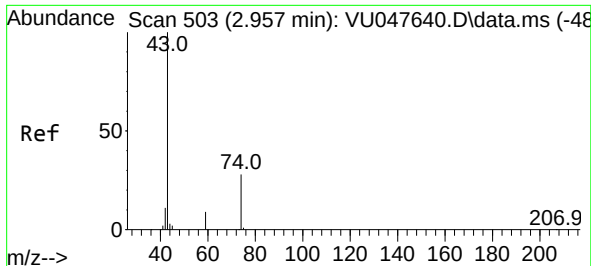
Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0

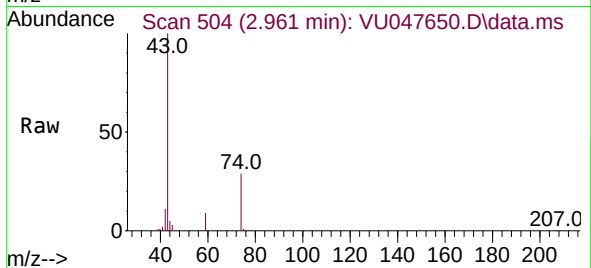




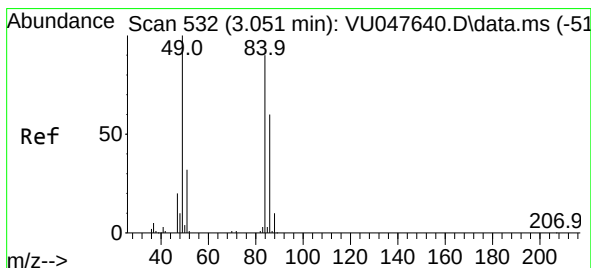
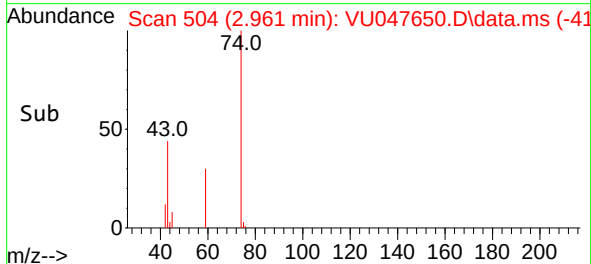
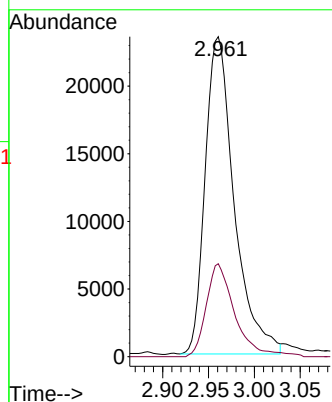


#15  
Methyl Acetate  
Concen: 28.040 ug/L  
RT: 2.961 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Instrument :  
MSVOA\_U  
ClientSampleId :

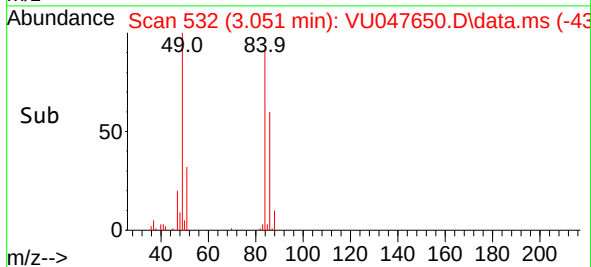
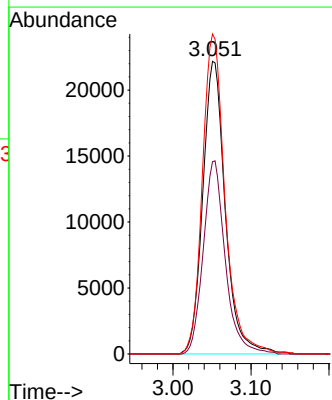
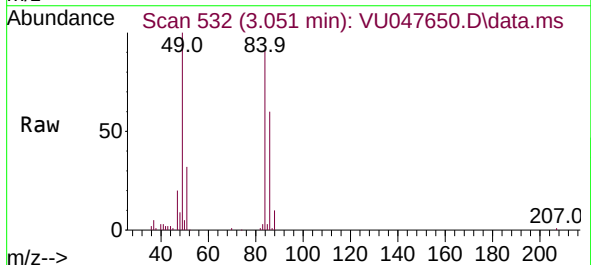


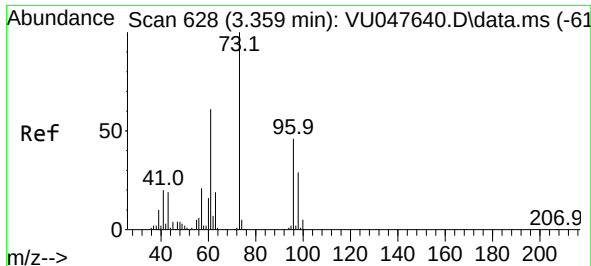
Tgt Ion: 43 Resp: 51686  
Ion Ratio Lower Upper  
43 100  
74 28.8 22.2 33.2



#16  
Methylene chloride  
Concen: 28.383 ug/L  
RT: 3.051 min Scan# 532  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

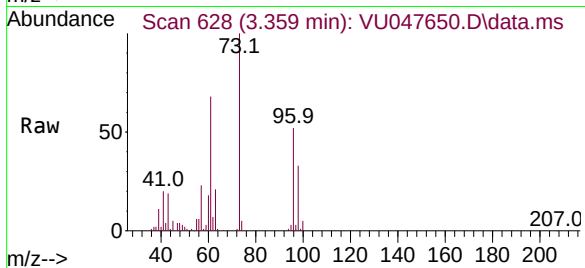
Tgt Ion: 84 Resp: 44588  
Ion Ratio Lower Upper  
84 100  
86 65.7 46.0 85.4  
49 109.3 75.3 139.8



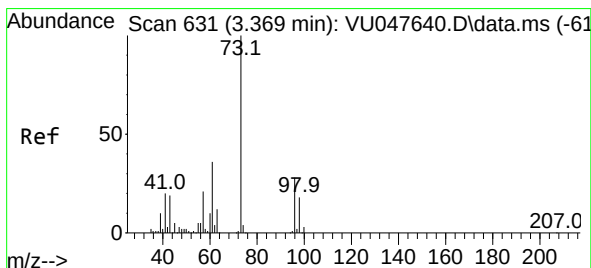
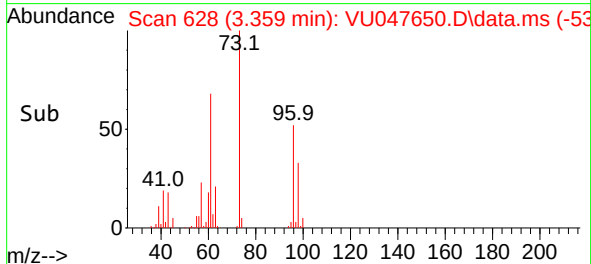
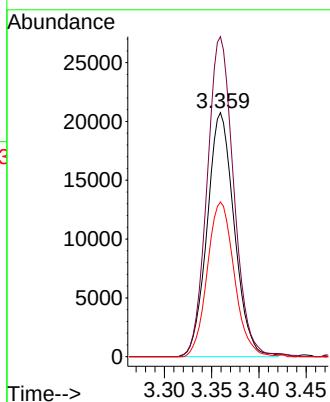


#17  
trans-1,2-Dichloroethene  
Concen: 28.028 ug/L  
RT: 3.359 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Instrument :  
MSVOA\_U  
ClientSampleId :

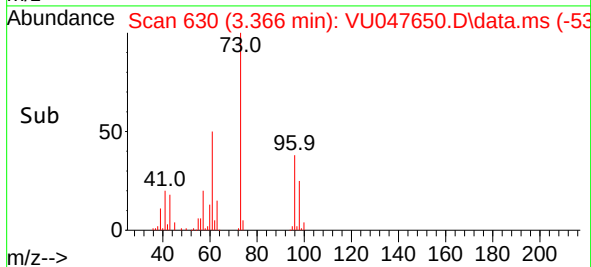
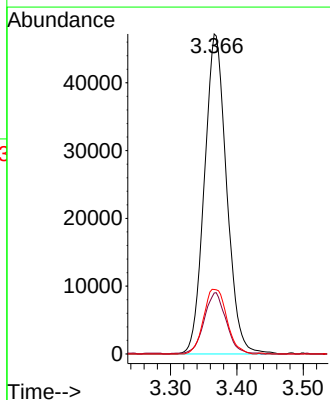
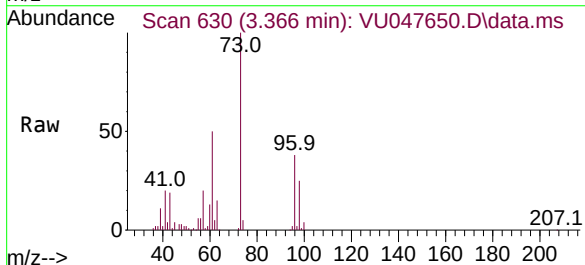


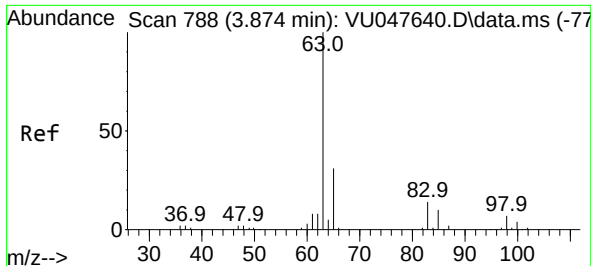
Tgt Ion: 96 Resp: 41385  
Ion Ratio Lower Upper  
96 100  
61 131.1 88.4 164.2  
98 63.4 43.3 80.5



#18  
Methyl tert-butyl Ether  
Concen: 26.336 ug/L  
RT: 3.366 min Scan# 630  
Delta R.T. -0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion: 73 Resp: 109710  
Ion Ratio Lower Upper  
73 100  
43 19.0 15.3 22.9  
57 21.2 17.0 25.6





#19

1,1-Dichloroethane

Concen: 67.141 ug/L

RT: 3.874 min Scan# 788

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

ClientSampleId :

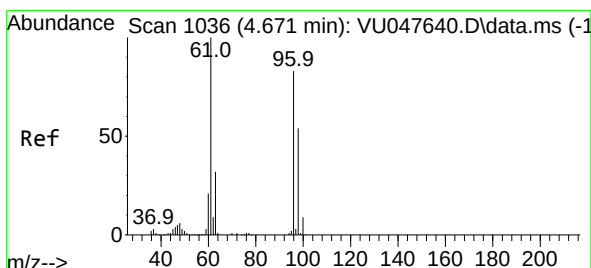
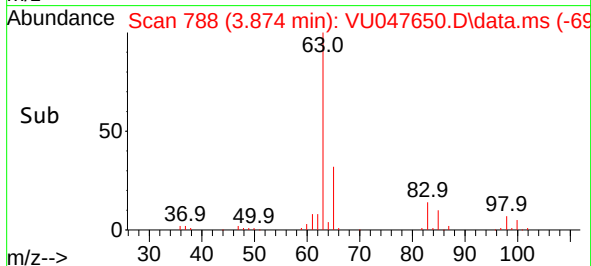
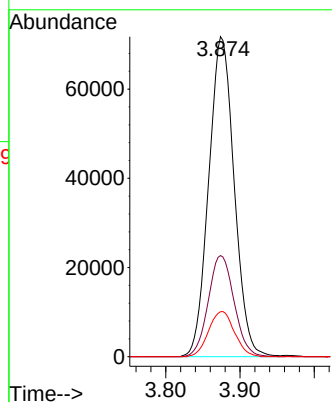
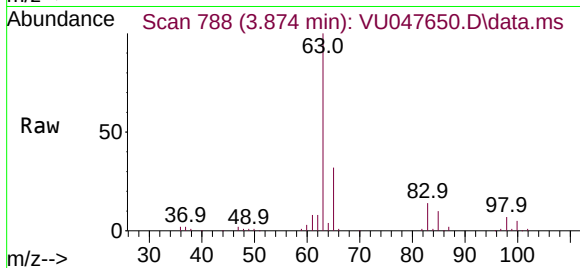
Tgt Ion: 63 Resp: 170979

Ion Ratio Lower Upper

63 100

65 31.6 22.0 41.0

83 14.1 9.7 18.1



#20

cis-1,2-Dichloroethene

Concen: 55.159 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

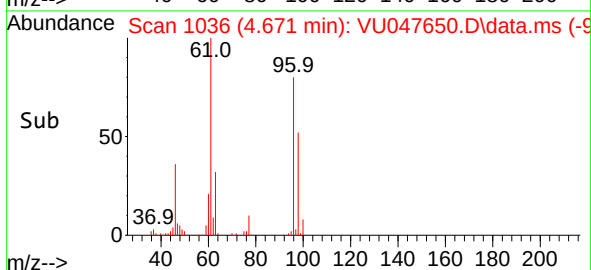
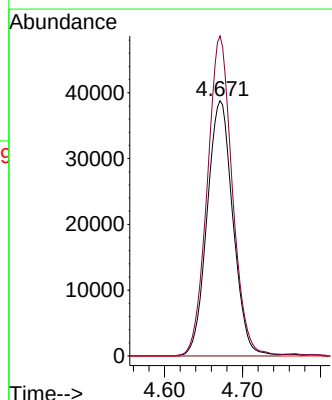
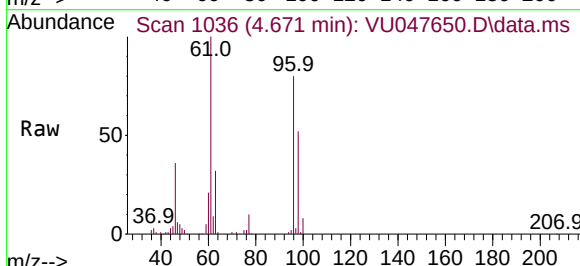
Tgt Ion: 96 Resp: 89290

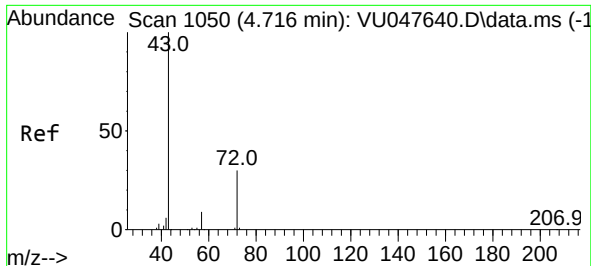
Ion Ratio Lower Upper

96 100

61 125.4 80.7 149.9

68 0.0 0.0 0.0

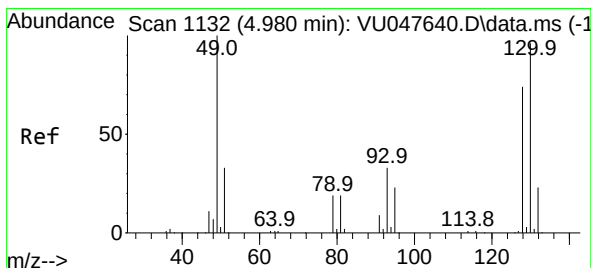
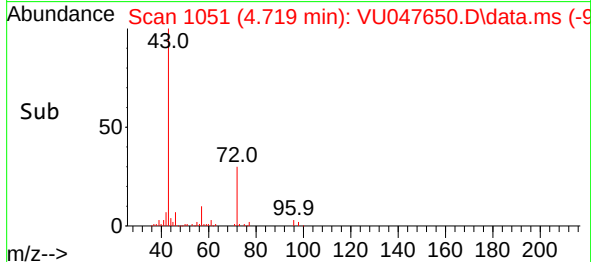
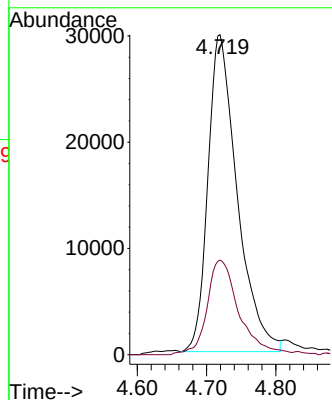
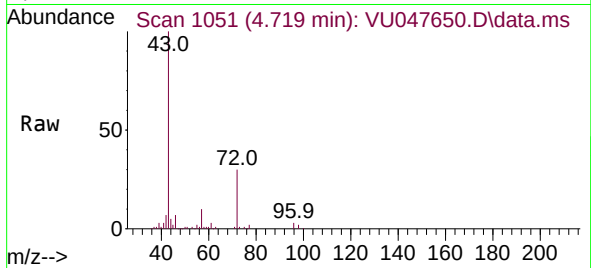




#22  
2-Butanone  
Concen: 58.792 ug/L  
RT: 4.719 min Scan# 1051  
Delta R.T. 0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

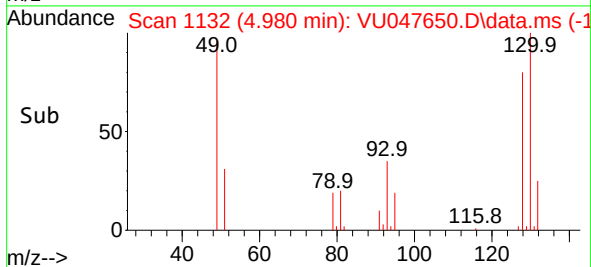
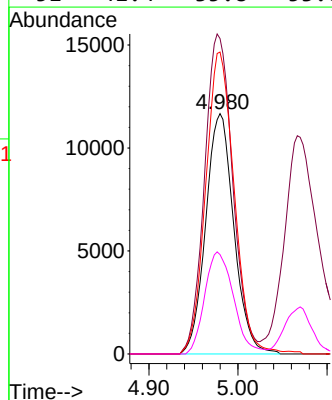
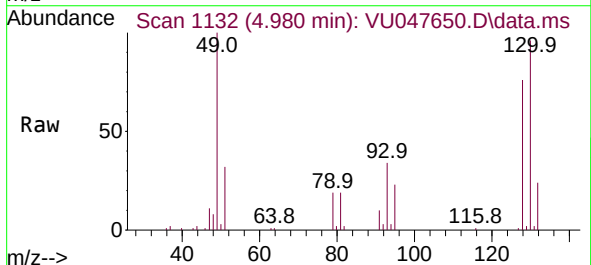
Instrument :  
MSVOA\_U  
ClientSampleId :

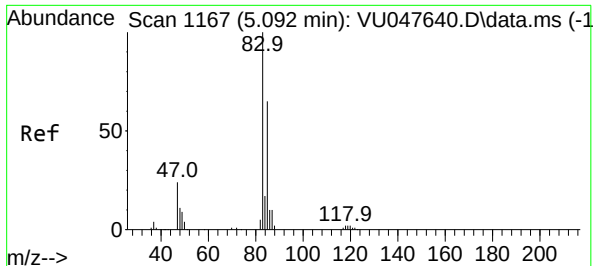
Tgt Ion: 43 Resp: 87546  
Ion Ratio Lower Upper  
43 100  
72 32.4 16.0 47.9



#23  
Bromochloromethane  
Concen: 28.835 ug/L  
RT: 4.980 min Scan# 1132  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion:128 Resp: 25628  
Ion Ratio Lower Upper  
128 100  
49 131.2 94.1 174.8  
130 125.6 90.2 167.4  
51 41.4 35.8 53.6





#25

Chloroform

Concen: 28.493 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

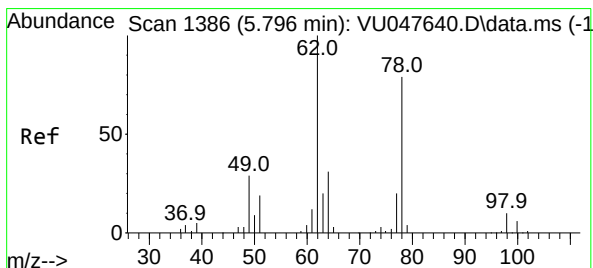
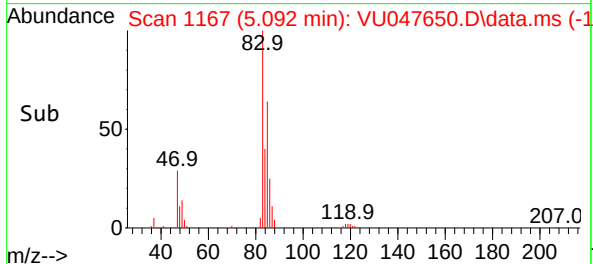
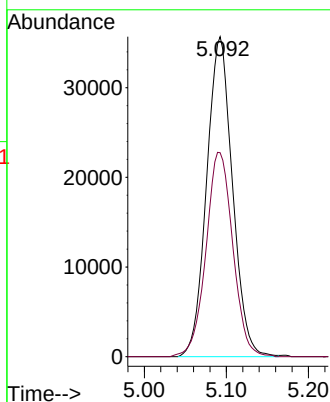
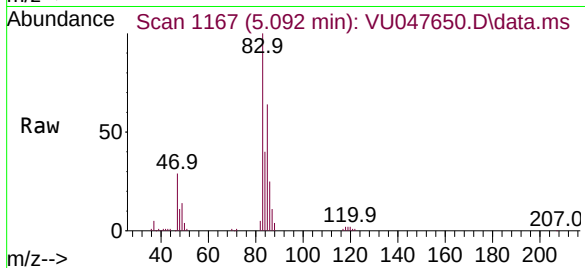
ClientSampleId :

Tgt Ion: 83 Resp: 78120

Ion Ratio Lower Upper

83 100

85 63.7 46.2 85.8



#27

1,2-Dichloroethane

Concen: 27.513 ug/L

RT: 5.796 min Scan# 1386

Delta R.T. 0.000 min

Lab File: VU047650.D

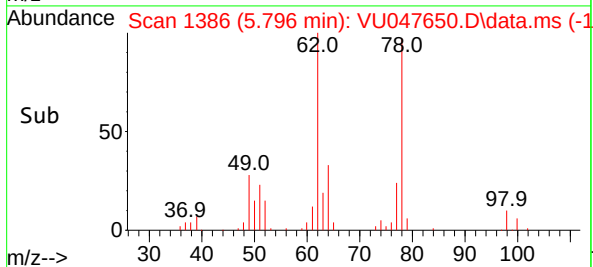
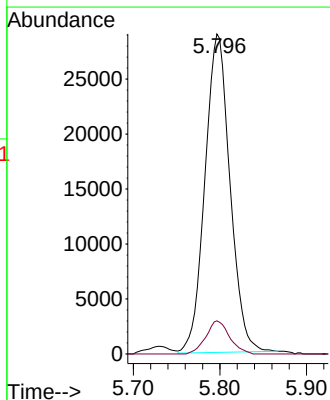
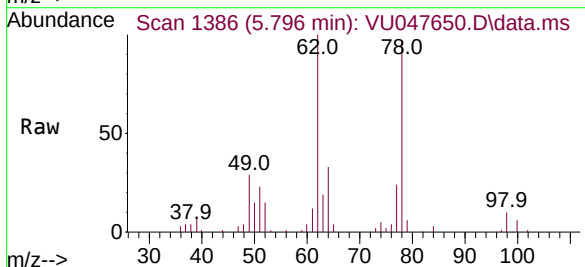
Acq: 24 Mar 2022 22:16

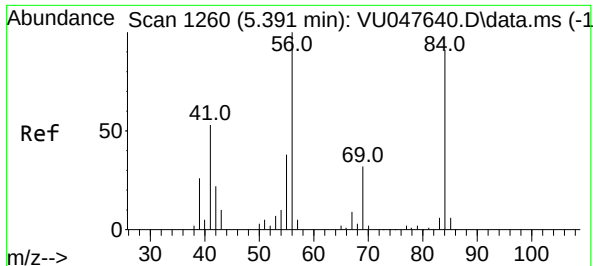
Tgt Ion: 62 Resp: 58279

Ion Ratio Lower Upper

62 100

98 10.3 7.4 11.0





#29

Cyclohexane

Concen: 26.401 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. 0.000 min

Lab File: VU047650.D

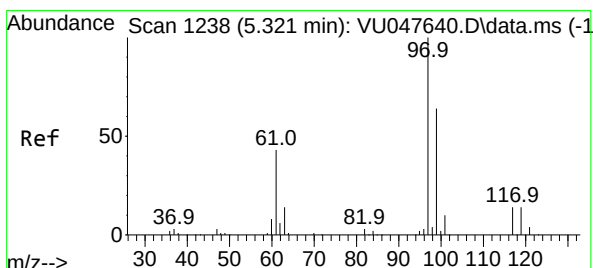
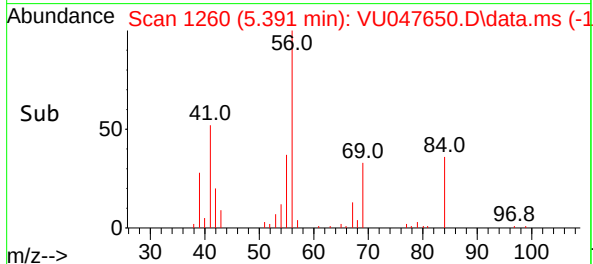
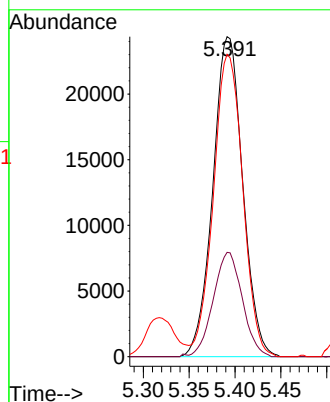
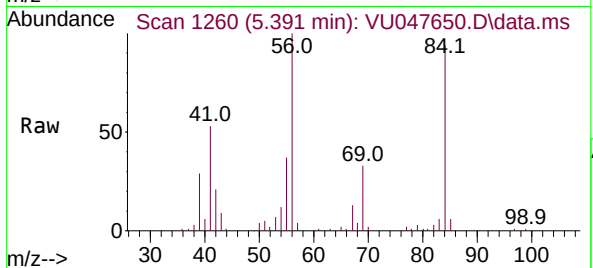
Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 55156 |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 31.6  | 25.4  | 38.2  |
| 84        | 93.0  | 77.0  | 115.6 |



#30

1,1,1-Trichloroethane

Concen: 165.740 ug/L

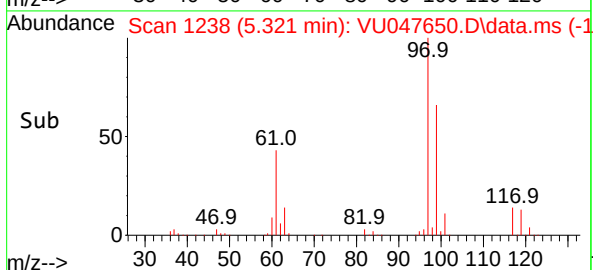
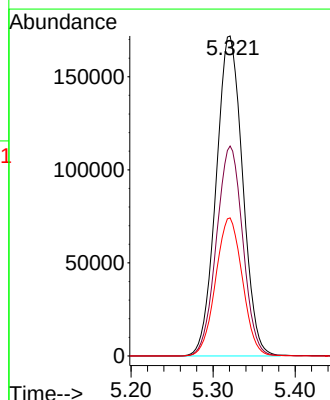
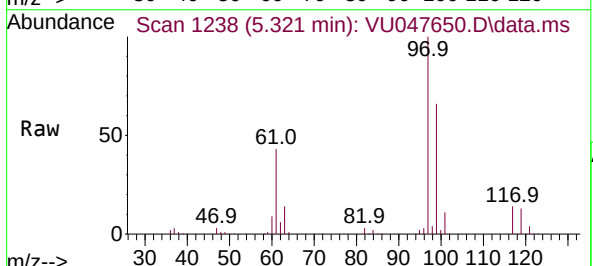
RT: 5.321 min Scan# 1238

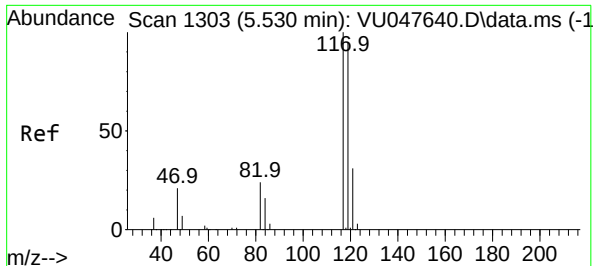
Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 386931 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 65.2  | 51.6  | 77.4   |
| 61        | 43.5  | 34.2  | 51.4   |

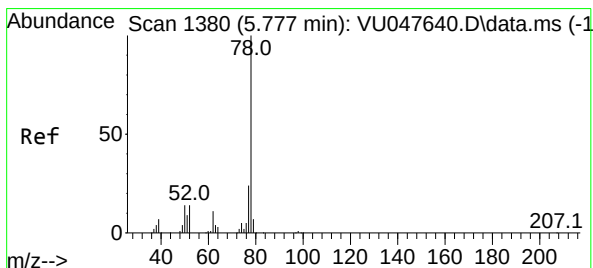
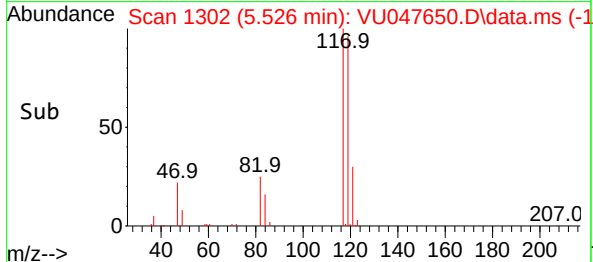
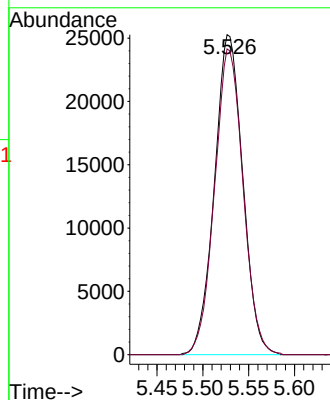
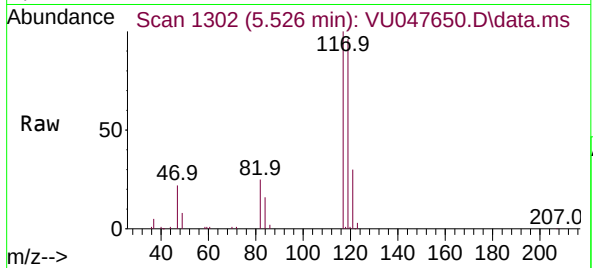




#31  
Carbon tetrachloride  
Concen: 25.773 ug/L  
RT: 5.526 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

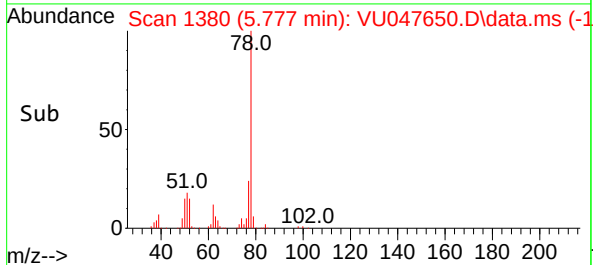
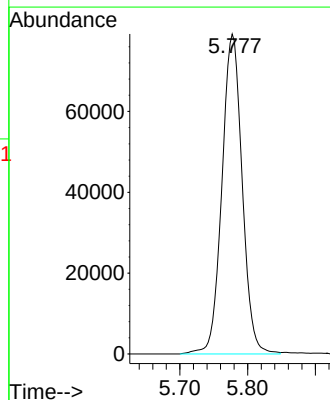
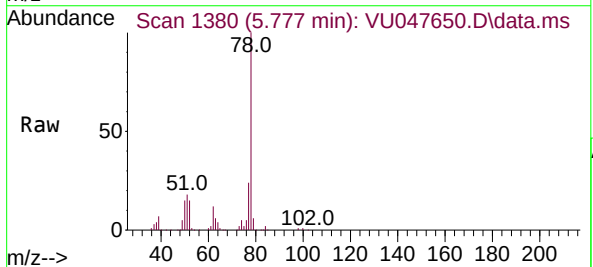
Instrument :  
MSVOA\_U  
ClientSampleId :

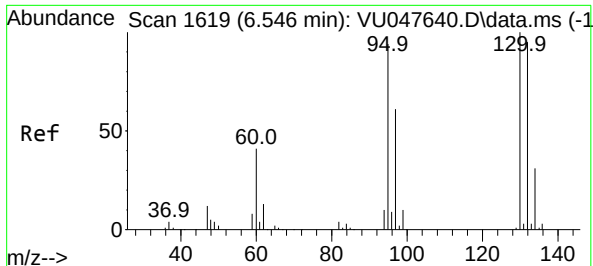
Tgt Ion:117 Resp: 54333  
Ion Ratio Lower Upper  
117 100  
119 96.0 77.2 115.8



#33  
Benzene  
Concen: 27.609 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion: 78 Resp: 164536

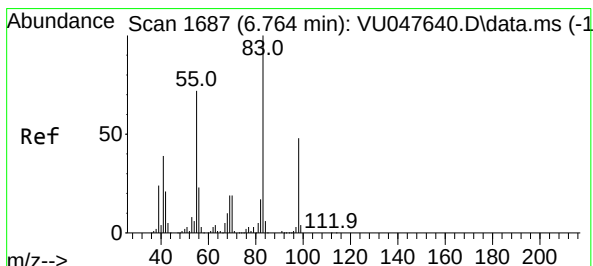
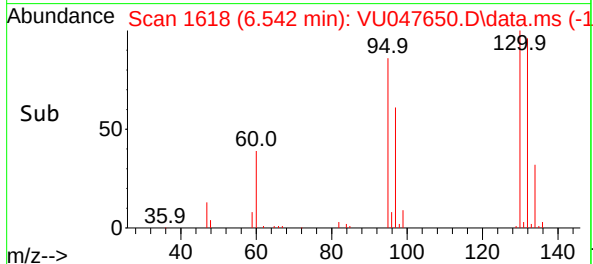
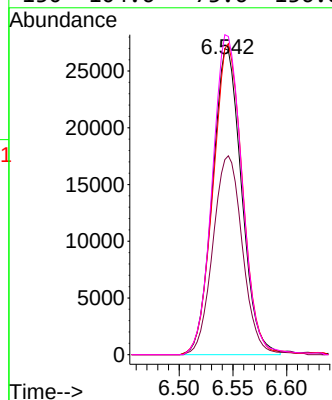
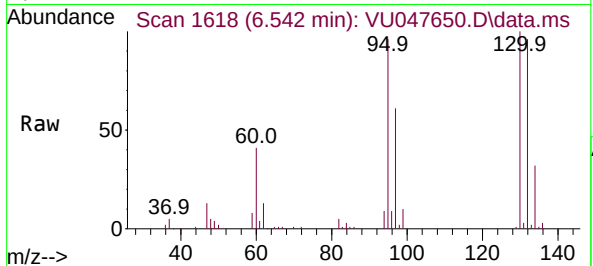




#34  
Trichloroethene  
Concen: 32.449 ug/L  
RT: 6.542 min Scan# 1618  
Delta R.T. -0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

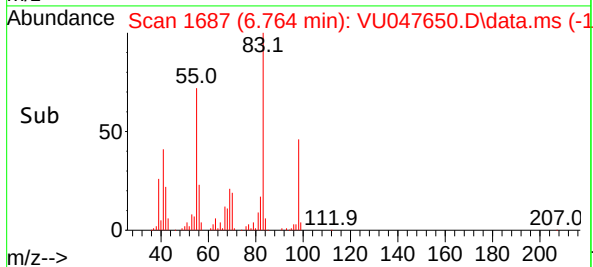
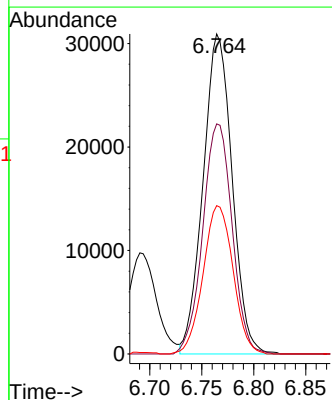
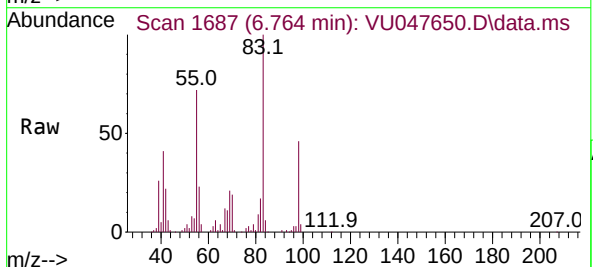
Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 95 Resp: 50698  
Ion Ratio Lower Upper  
95 100  
97 63.7 44.7 82.9  
132 100.0 70.4 130.8  
130 104.6 73.6 136.8

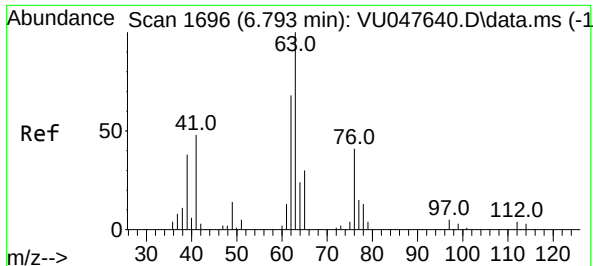


#35  
Methylcyclohexane  
Concen: 25.299 ug/L  
RT: 6.764 min Scan# 1687  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion: 83 Resp: 60135  
Ion Ratio Lower Upper  
83 100  
55 72.7 56.8 85.2  
98 47.8 38.1 57.1







#37

1,2-Dichloropropane

Concen: 27.470 ug/L

RT: 6.793 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

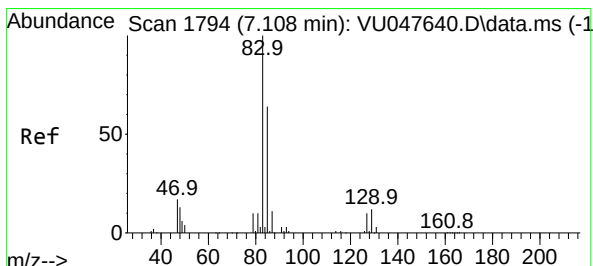
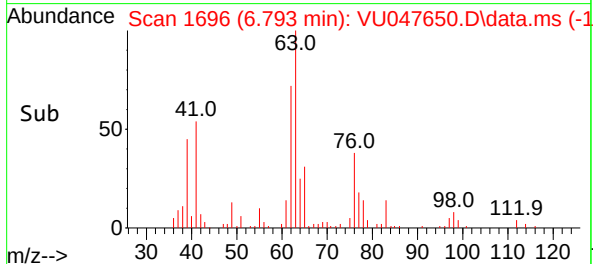
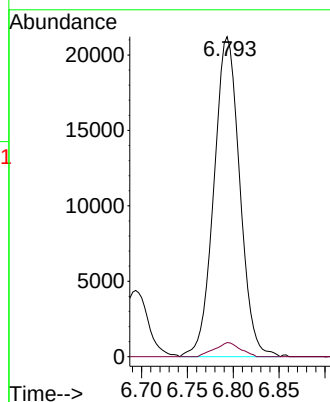
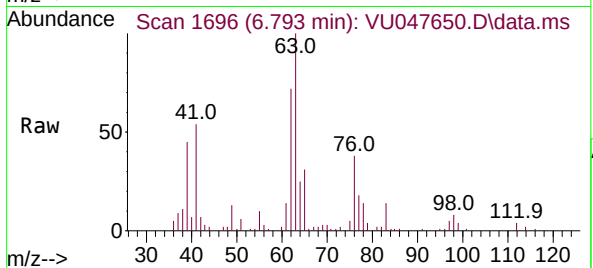
ClientSampleId :

Tgt Ion: 63 Resp: 41617

Ion Ratio Lower Upper

63 100

112 4.4 3.4 5.2



#38

Bromodichloromethane

Concen: 28.119 ug/L

RT: 7.108 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

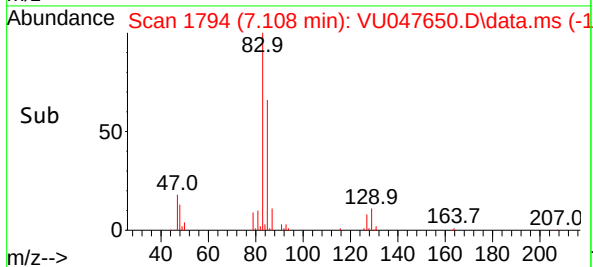
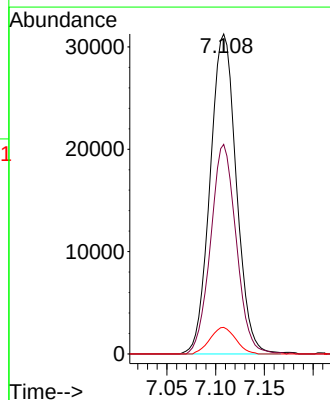
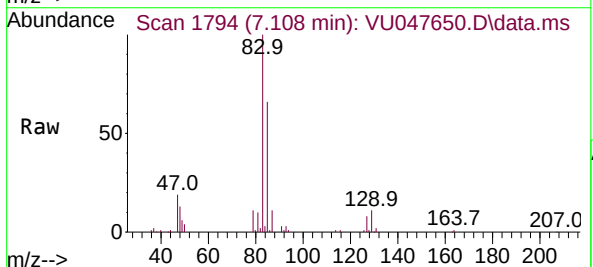
Tgt Ion: 83 Resp: 58499

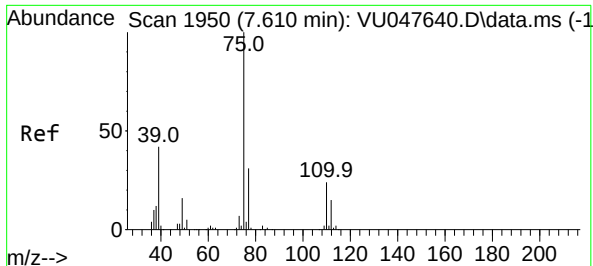
Ion Ratio Lower Upper

83 100

85 65.5 44.4 82.4

127 8.3 7.2 10.8





#39

cis-1,3-Dichloropropene

Concen: 26.557 ug/L

RT: 7.610 min Scan# 1950

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

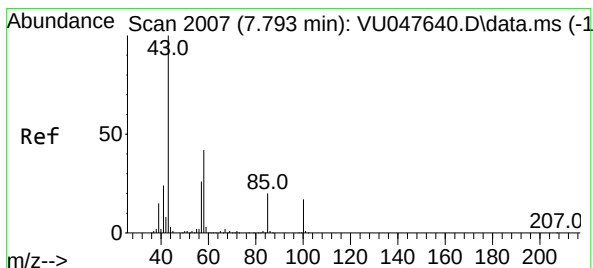
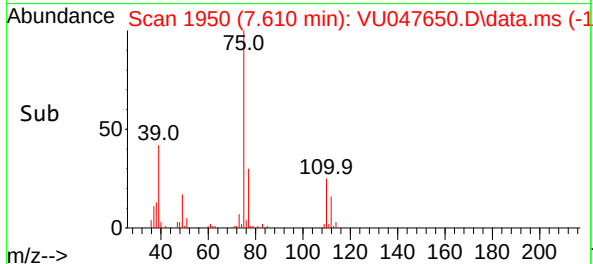
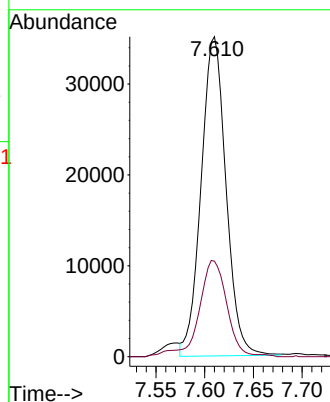
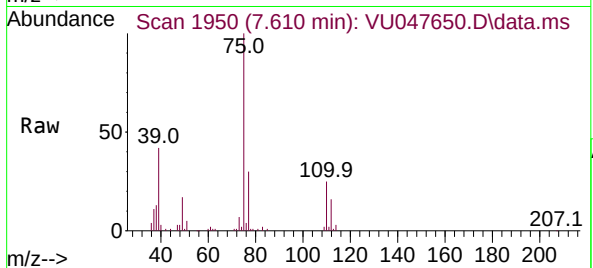
ClientSampleId :

Tgt Ion: 75 Resp: 62428

Ion Ratio Lower Upper

75 100

77 29.8 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 58.146 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

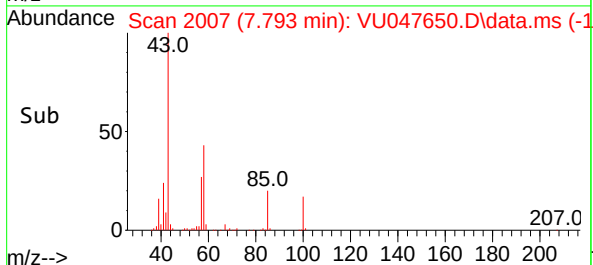
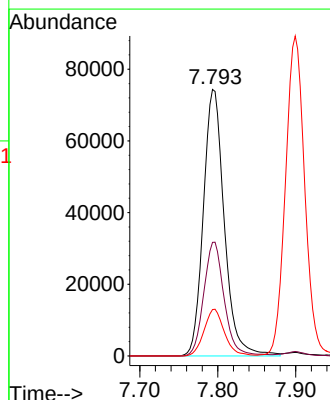
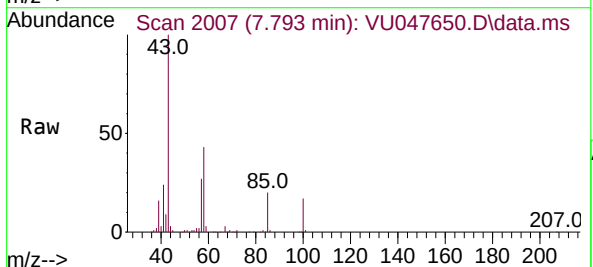
Tgt Ion: 43 Resp: 139228

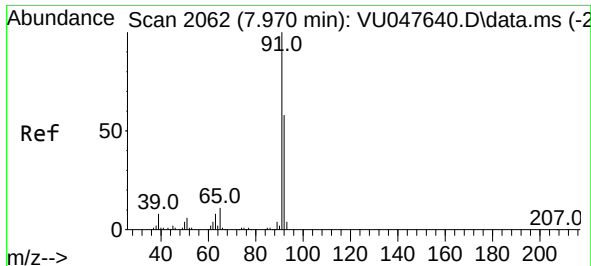
Ion Ratio Lower Upper

43 100

58 41.6 34.7 52.1

100 17.0 14.2 21.2





#42

Toluene

Concen: 27.031 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

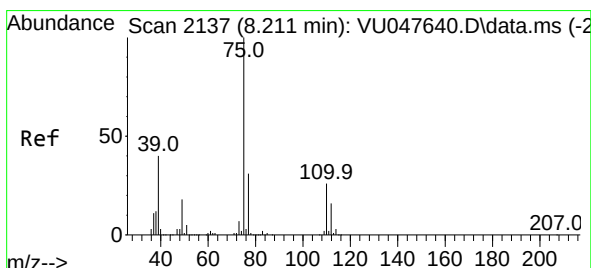
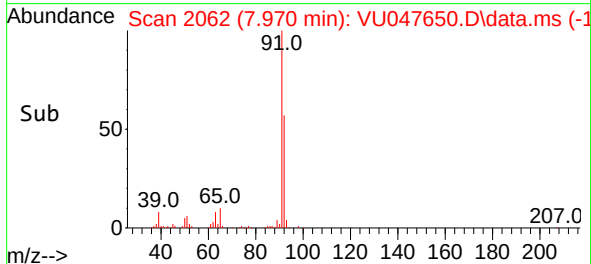
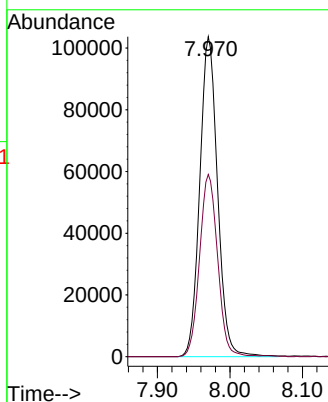
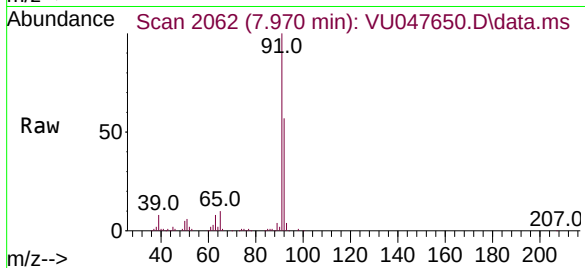
ClientSampleId :

Tgt Ion: 91 Resp: 176754

Ion Ratio Lower Upper

91 100

92 56.9 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 27.516 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. 0.000 min

Lab File: VU047650.D

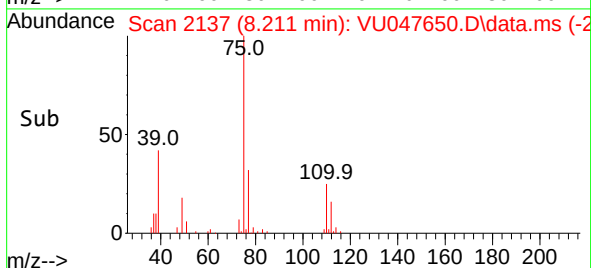
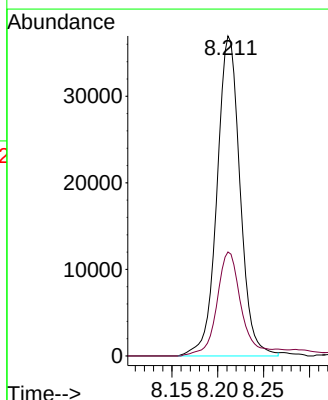
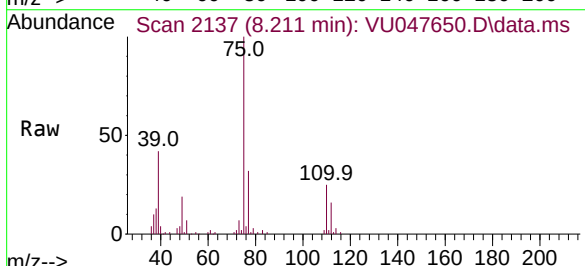
Acq: 24 Mar 2022 22:16

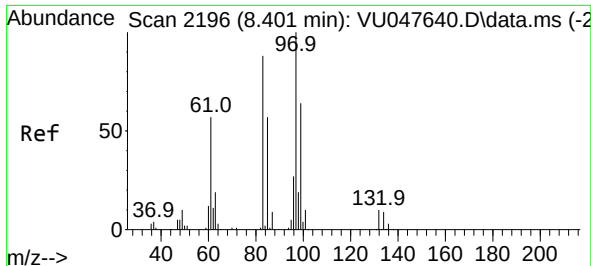
Tgt Ion: 75 Resp: 64582

Ion Ratio Lower Upper

75 100

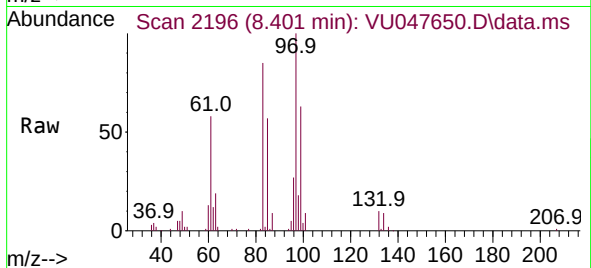
77 32.5 22.0 40.8



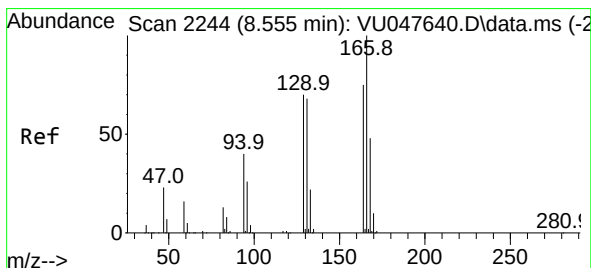
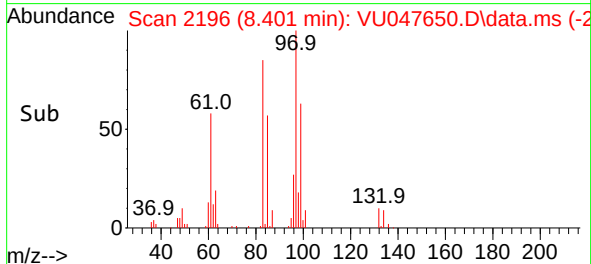
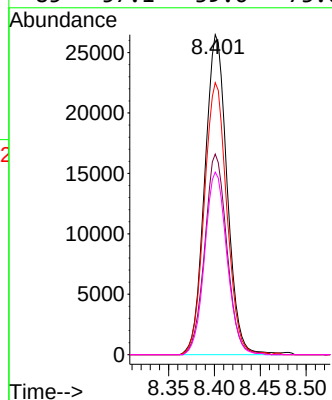


#45  
1,1,2-Trichloroethane  
Concen: 27.953 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Instrument :  
MSVOA\_U  
ClientSampleId :

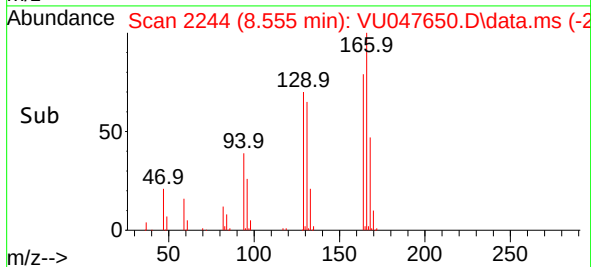
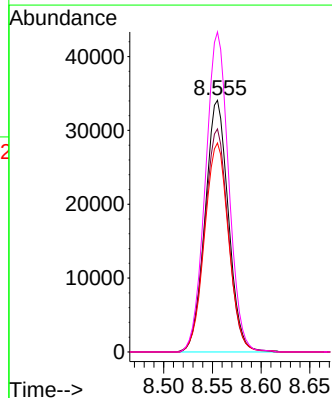
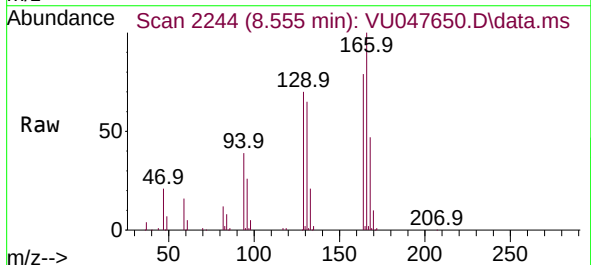


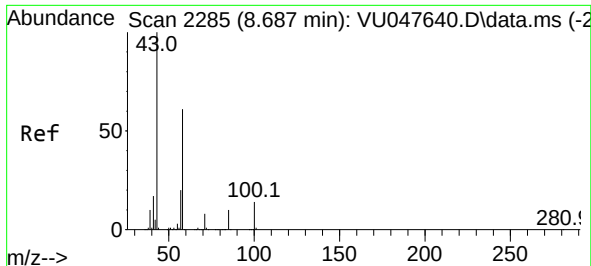
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 44913 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.7  | 43.3  | 80.3  |
| 83       | 85.0  | 61.0  | 113.4 |
| 85       | 57.1  | 39.6  | 73.6  |



#46  
Tetrachloroethene  
Concen: 40.470 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

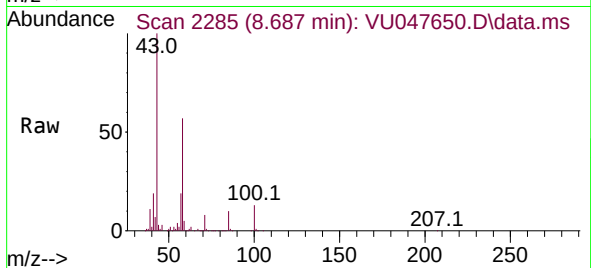
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 56822 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 88.6  | 62.4  | 116.0 |
| 131      | 83.0  | 60.7  | 112.7 |
| 166      | 127.1 | 89.0  | 165.4 |



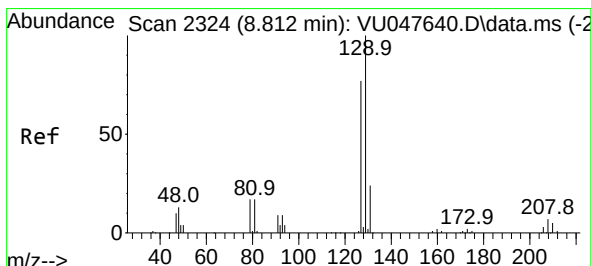
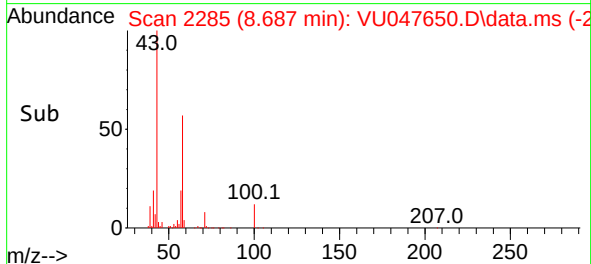
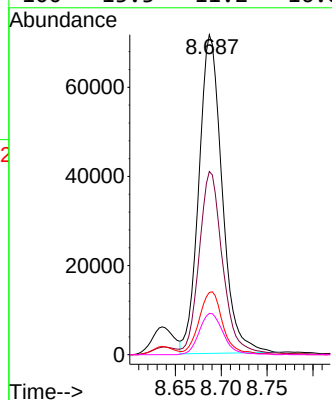


#48  
2-Hexanone  
Concen: 61.352 ug/L  
RT: 8.687 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Instrument :  
MSVOA\_U  
ClientSampleId :

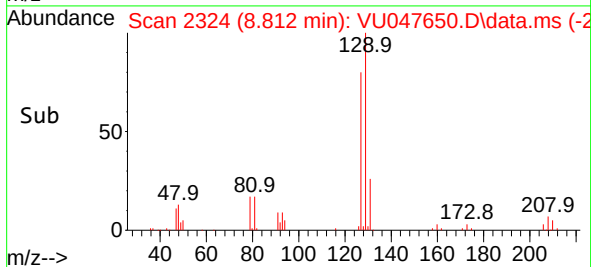
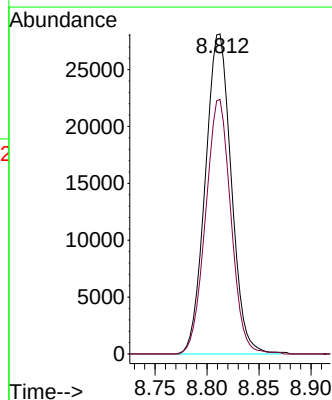
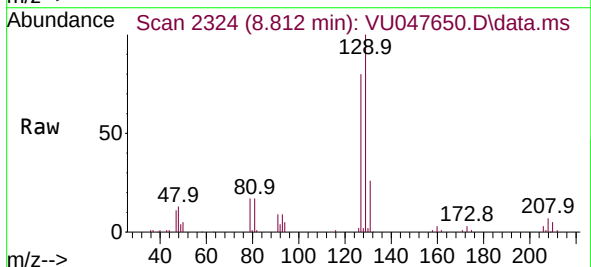


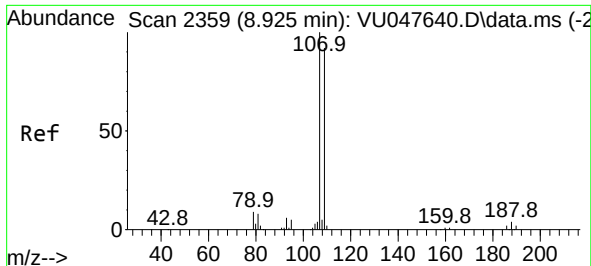
Tgt Ion: 43 Resp: 126365  
Ion Ratio Lower Upper  
43 100  
58 57.5 48.1 72.1  
57 19.5 16.2 24.4  
100 13.3 11.2 16.8



#49  
Dibromochloromethane  
Concen: 26.309 ug/L  
RT: 8.812 min Scan# 2324  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion: 129 Resp: 48960  
Ion Ratio Lower Upper  
129 100  
127 79.6 54.2 100.6





#50

1,2-Dibromoethane

Concen: 27.374 ug/L

RT: 8.925 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

ClientSampleId :

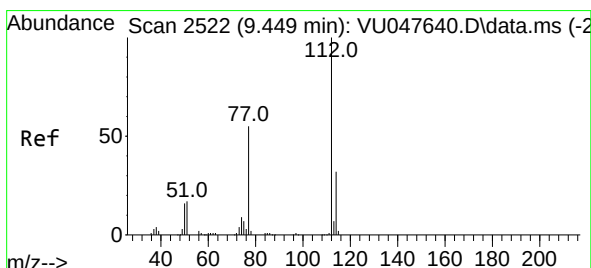
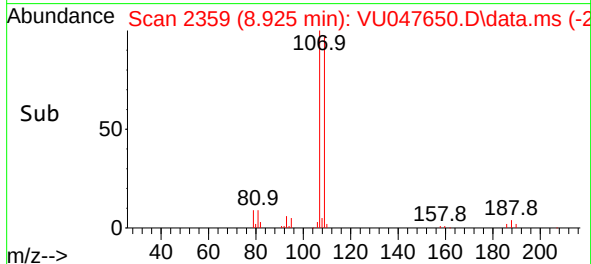
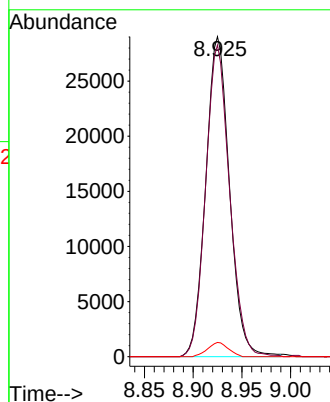
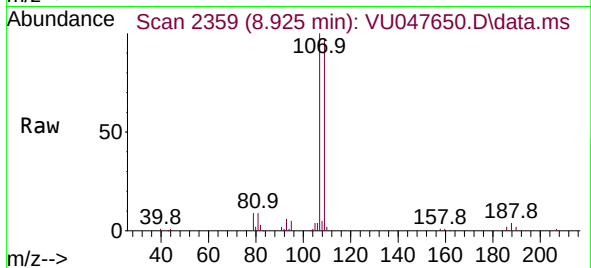
Tgt Ion:107 Resp: 49308

Ion Ratio Lower Upper

107 100

109 97.4 66.6 123.6

188 4.4 3.4 5.2



#51

Chlorobenzene

Concen: 26.581 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

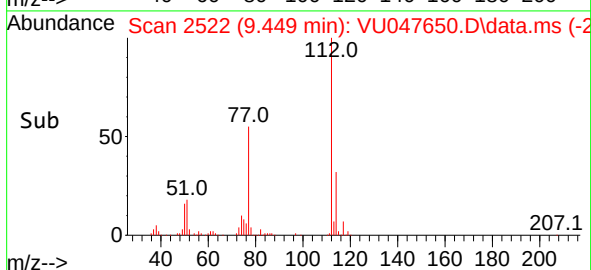
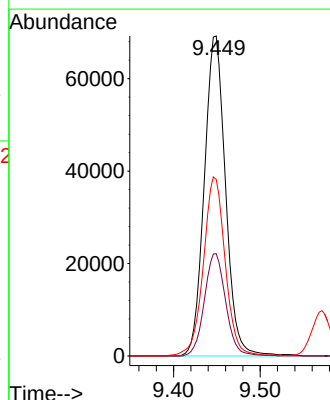
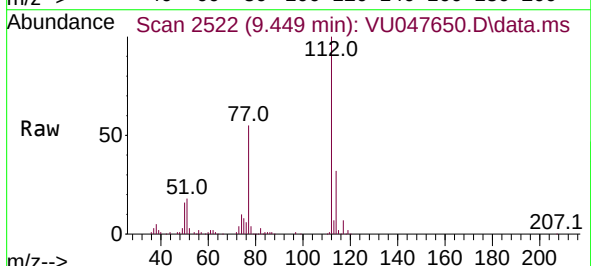
Tgt Ion:112 Resp: 118019

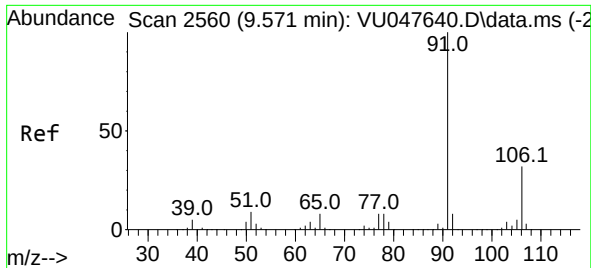
Ion Ratio Lower Upper

112 100

114 31.9 22.1 41.1

77 55.2 43.4 65.0

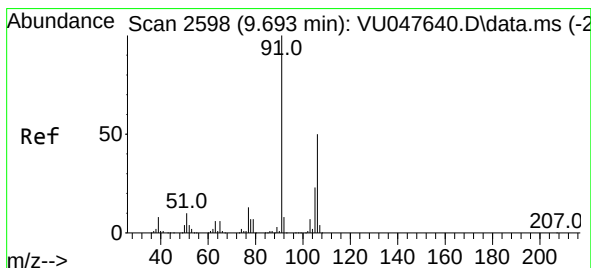
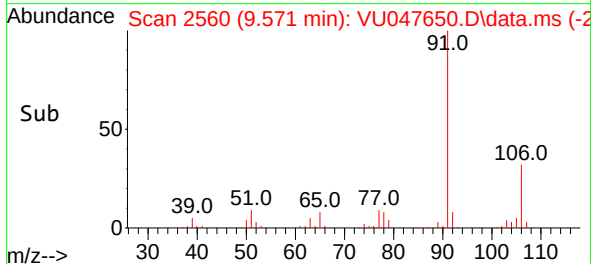
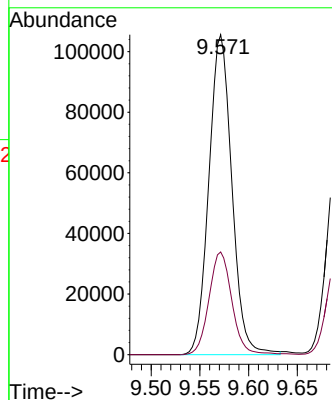
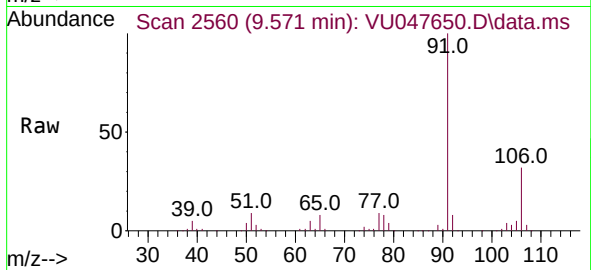




#52  
Ethylbenzene  
Concen: 25.191 ug/L  
RT: 9.571 min Scan# 2560  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

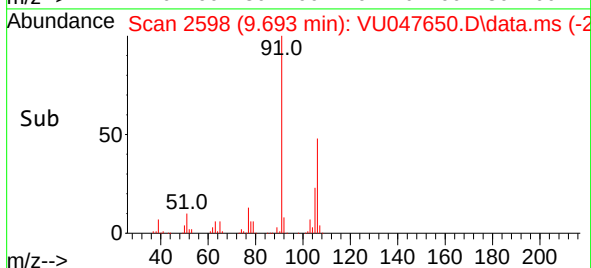
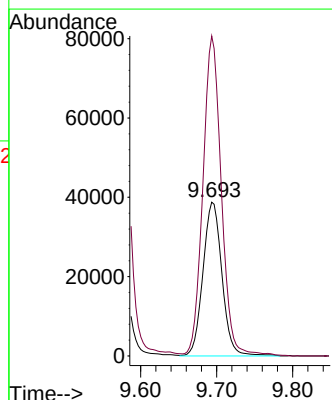
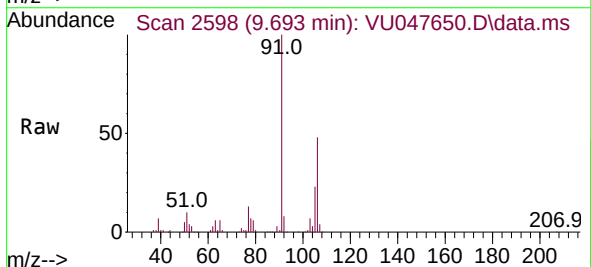
Instrument :  
MSVOA\_U  
ClientSampleId :

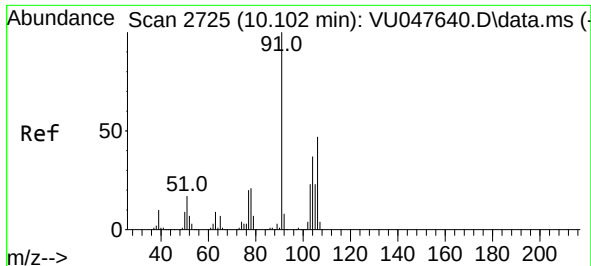
Tgt Ion: 91 Resp: 173205  
Ion Ratio Lower Upper  
91 100  
106 32.1 22.4 41.6



#53  
m,p-Xylene  
Concen: 24.969 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion: 106 Resp: 67361  
Ion Ratio Lower Upper  
106 100  
91 208.1 137.7 255.7

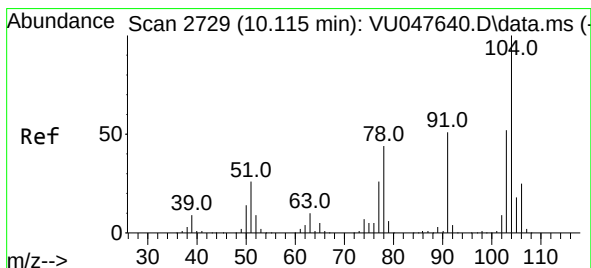
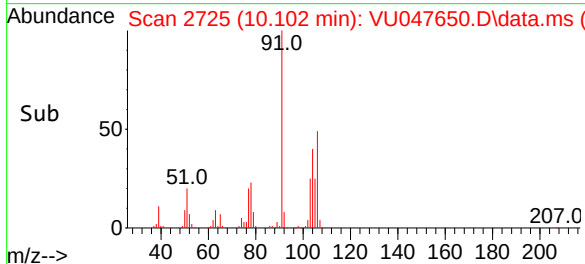
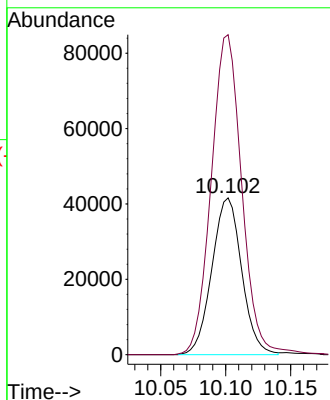
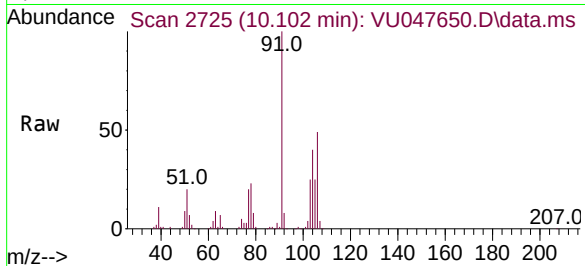




#54  
o-Xylene  
Concen: 25.101 ug/L  
RT: 10.102 min Scan# 2725  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

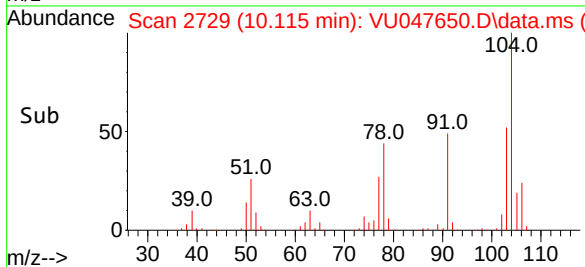
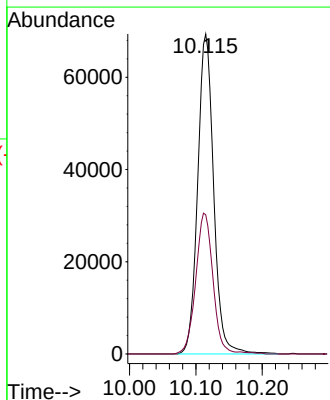
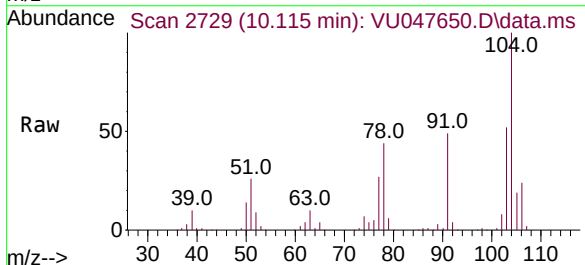
Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:106 Resp: 66463  
Ion Ratio Lower Upper  
106 100  
91 204.0 146.7 272.5

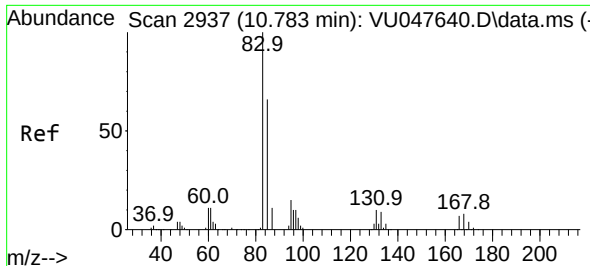


#55  
Styrene  
Concen: 25.713 ug/L  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion:104 Resp: 116241  
Ion Ratio Lower Upper  
104 100  
78 43.5 30.4 56.4







#57

1,1,2,2-Tetrachloroethane

Concen: 27.463 ug/L

RT: 10.783 min Scan# 2937

Delta R.T. 0.000 min

Lab File: VU047650.D

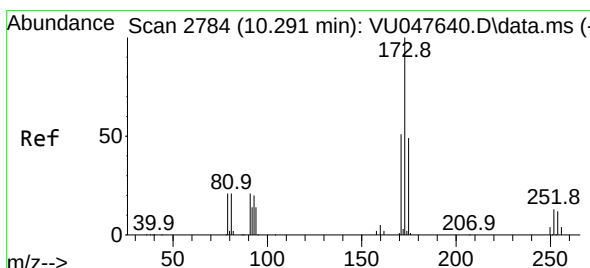
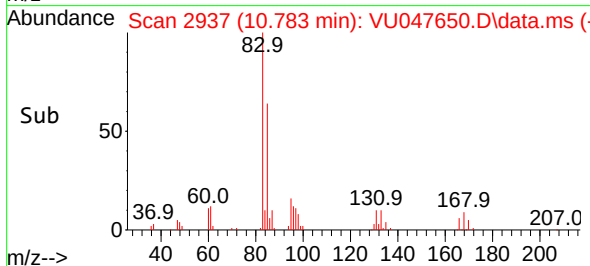
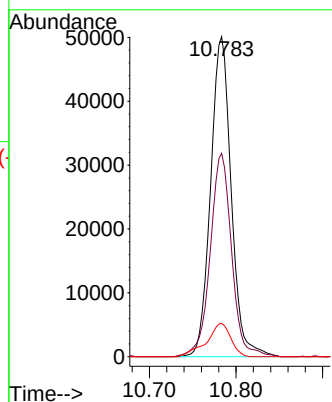
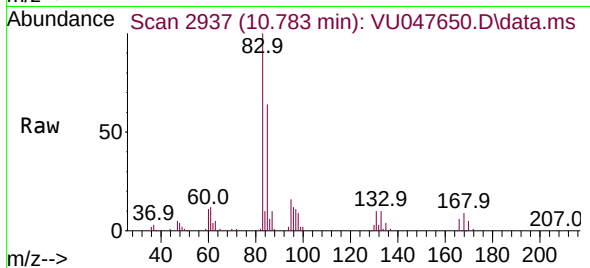
Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 82725 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 63.6  | 44.9  | 83.3  |
| 131       | 10.4  | 8.6   | 13.0  |



#59

Bromoform

Concen: 27.260 ug/L

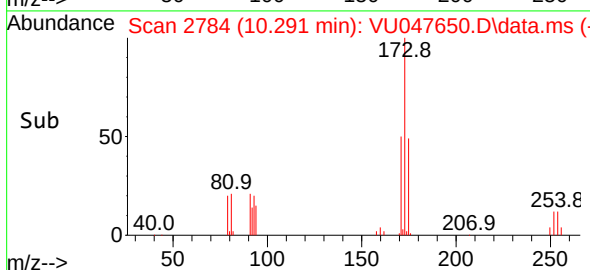
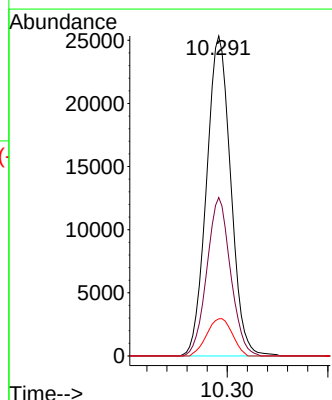
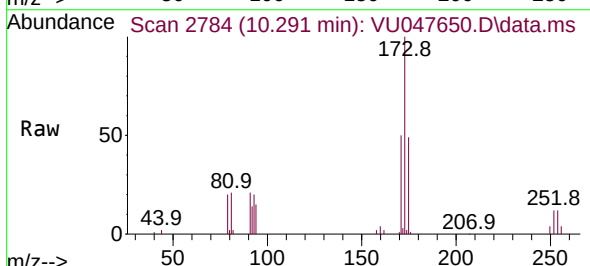
RT: 10.291 min Scan# 2784

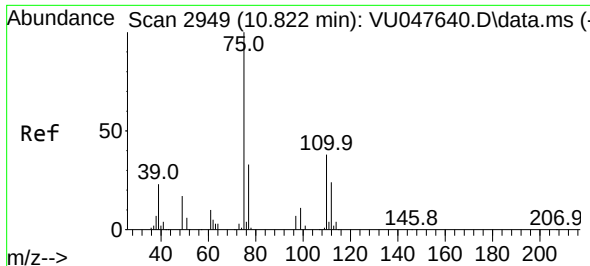
Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 42339 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 48.5  | 38.7  | 58.1  |
| 254       | 12.3  | 9.6   | 14.4  |

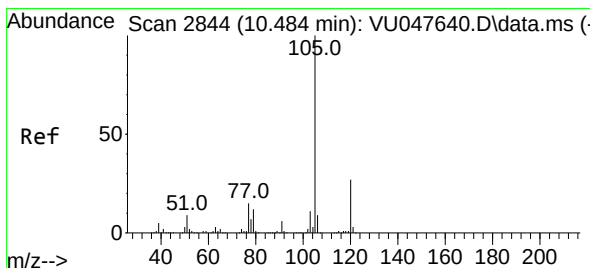
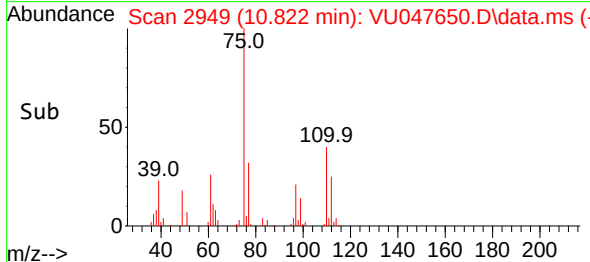
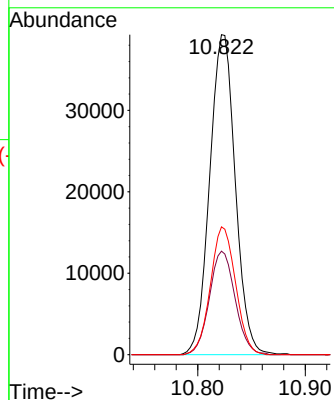
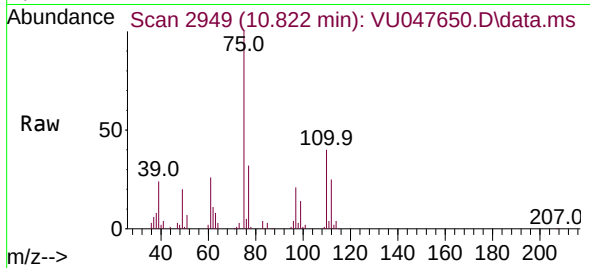




#60  
1,2,3-Trichloropropane  
Concen: 28.365 ug/L  
RT: 10.822 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

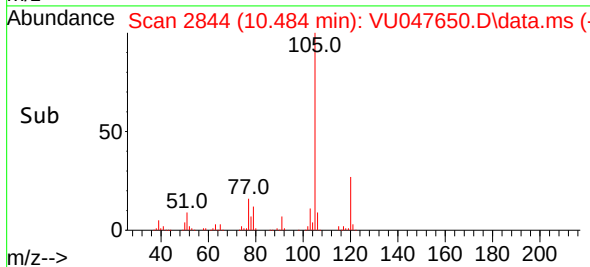
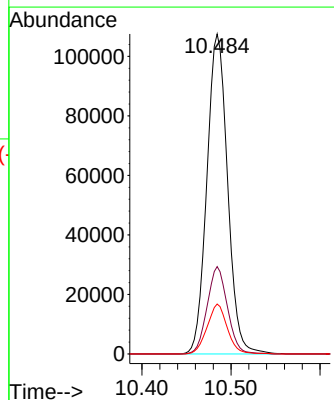
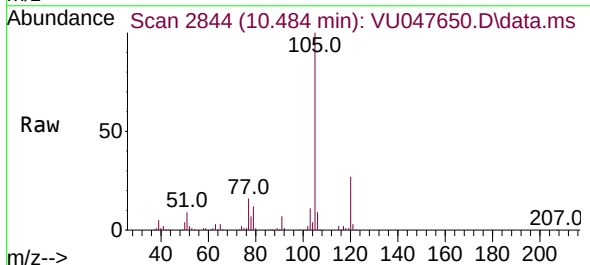
Instrument :  
MSVOA\_U  
ClientSampleId :

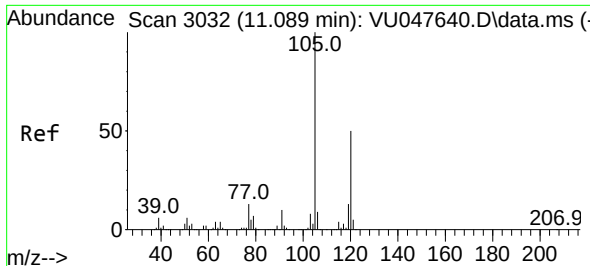
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 64949 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 32.5     | 26.0 39.0   |
| 110 39.3    | 31.4 47.2   |



#61  
Isopropylbenzene  
Concen: 26.426 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

|              |              |
|--------------|--------------|
| Tgt Ion: 105 | Resp: 173475 |
| Ion Ratio    | Lower Upper  |
| 105 100      |              |
| 120 26.8     | 21.9 32.9    |
| 77 15.2      | 12.1 18.1    |

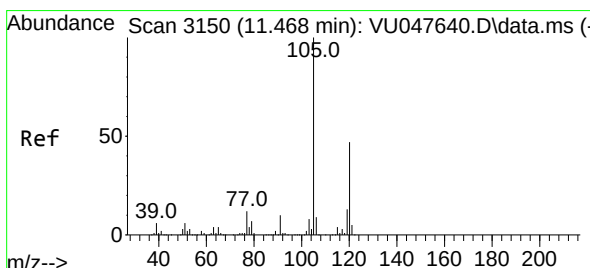
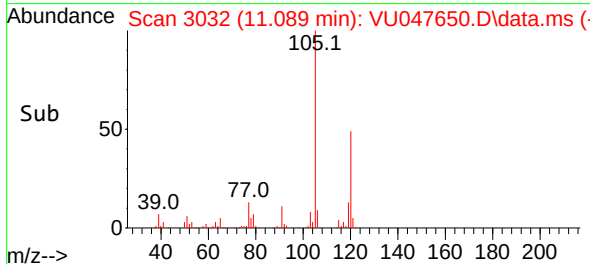
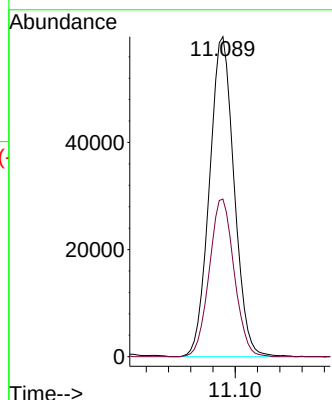
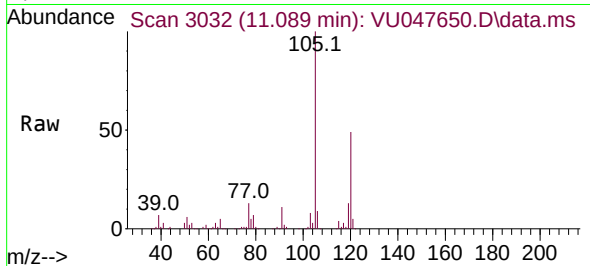




#62  
 1,3,5-Trimethylbenzene  
 Concen: 25.795 ug/L  
 RT: 11.089 min Scan# 3032  
 Delta R.T. 0.000 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

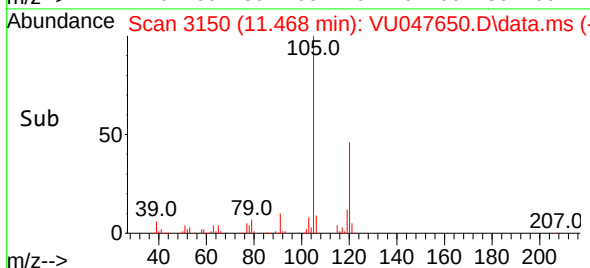
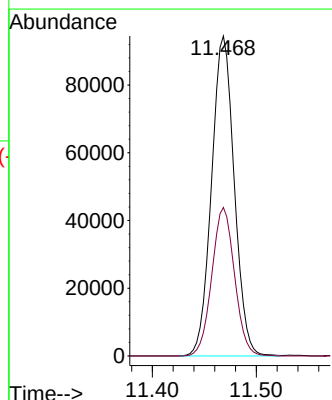
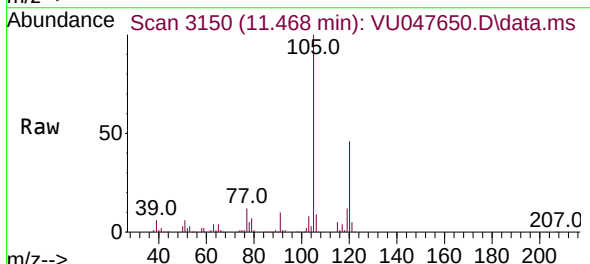
Instrument :  
 MSVOA\_U  
 ClientSampleId :

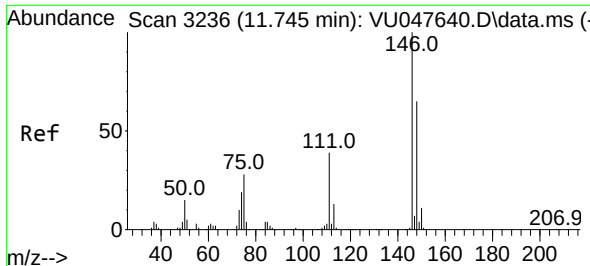
Tgt Ion:105 Resp: 91875  
 Ion Ratio Lower Upper  
 105 100  
 120 49.6 40.8 61.2



#63  
 1,2,4-Trimethylbenzene  
 Concen: 26.507 ug/L  
 RT: 11.468 min Scan# 3150  
 Delta R.T. 0.000 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

Tgt Ion:105 Resp: 143405  
 Ion Ratio Lower Upper  
 105 100  
 120 46.4 37.6 56.4

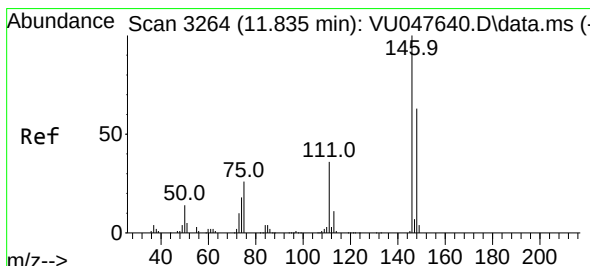
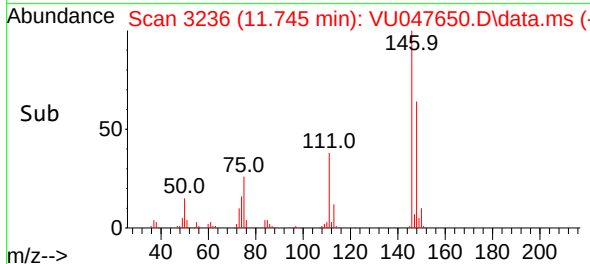
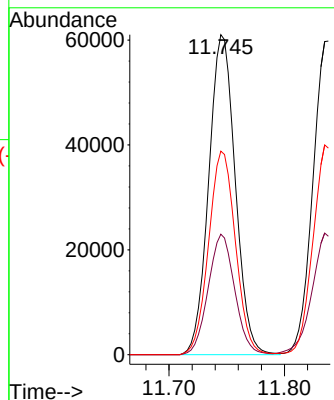
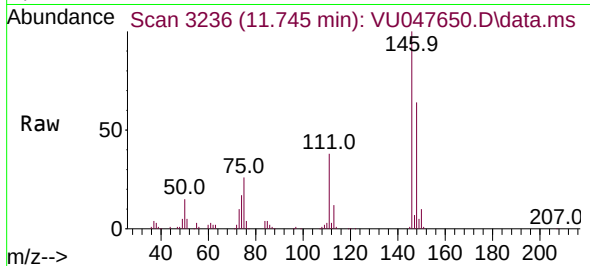




#64  
1,3-Dichlorobenzene  
Concen: 26.711 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

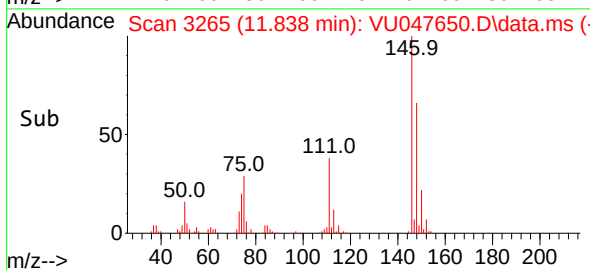
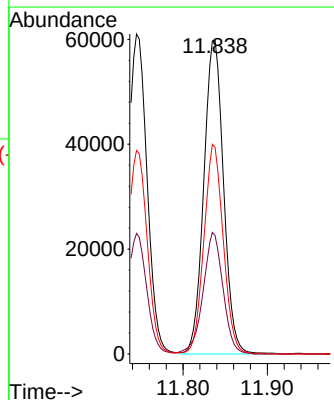
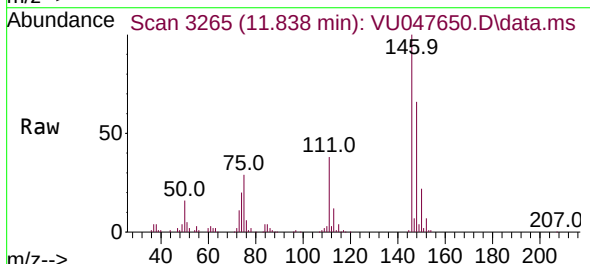
Instrument :  
MSVOA\_U  
ClientSampleId :

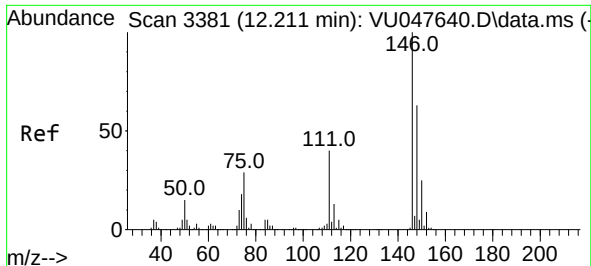
Tgt Ion:146 Resp: 97460  
Ion Ratio Lower Upper  
146 100  
111 37.7 26.7 49.7  
148 63.6 44.4 82.5



#65  
1,4-Dichlorobenzene  
Concen: 25.905 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion:146 Resp: 97901  
Ion Ratio Lower Upper  
146 100  
111 37.8 25.3 47.1  
148 65.9 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 27.727 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

Instrument :

MSVOA\_U

ClientSampleId :

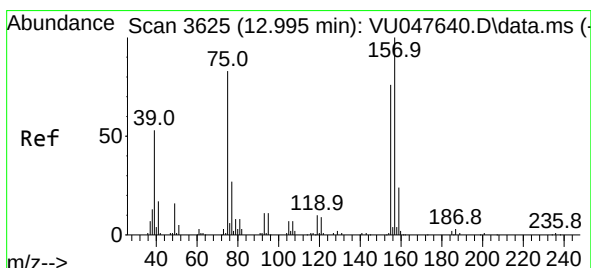
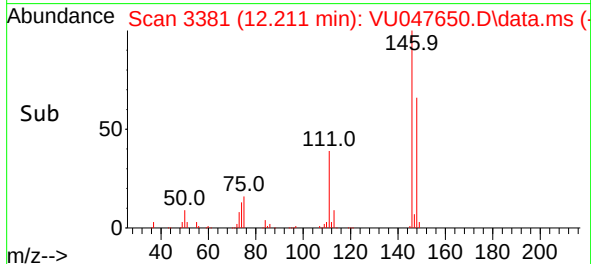
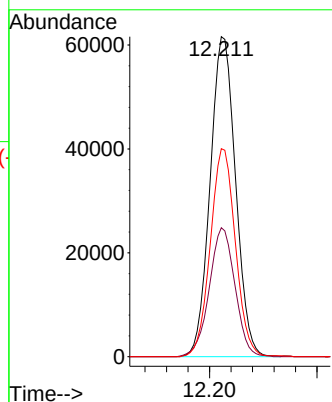
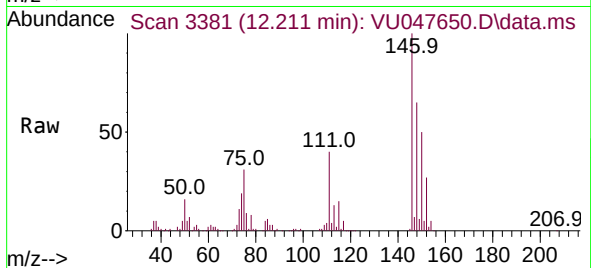
Tgt Ion:146 Resp: 101228

Ion Ratio Lower Upper

146 100

111 40.3 31.7 47.5

148 65.0 51.4 77.2



#68

1,2-Dibromo-3-chloropropane

Concen: 28.547 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. 0.000 min

Lab File: VU047650.D

Acq: 24 Mar 2022 22:16

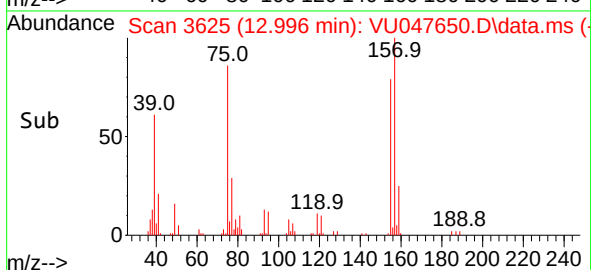
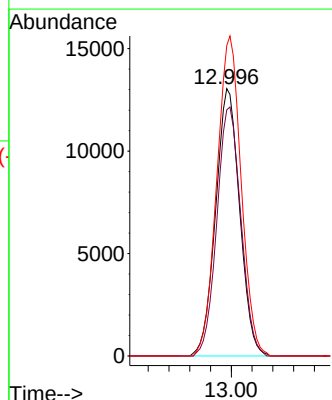
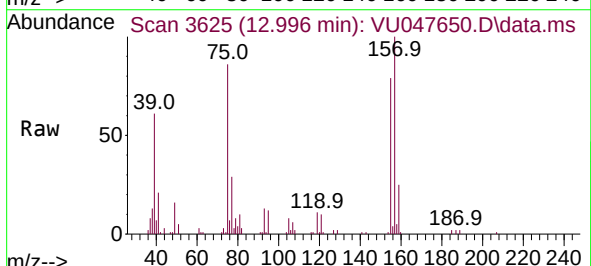
Tgt Ion: 75 Resp: 20938

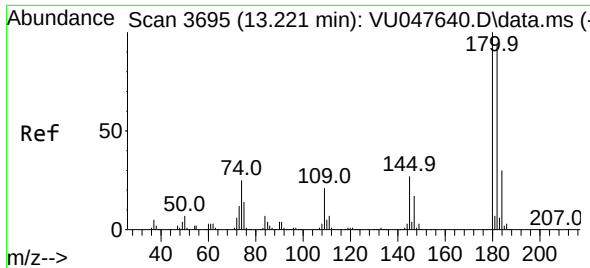
Ion Ratio Lower Upper

75 100

155 92.0 78.9 118.3

157 116.1 97.5 146.3



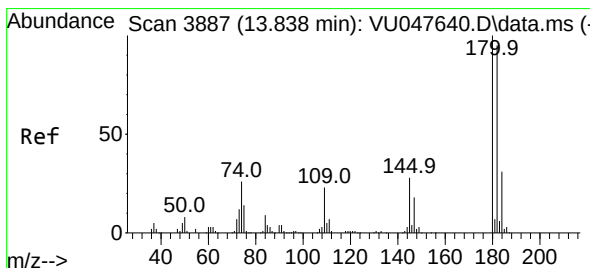
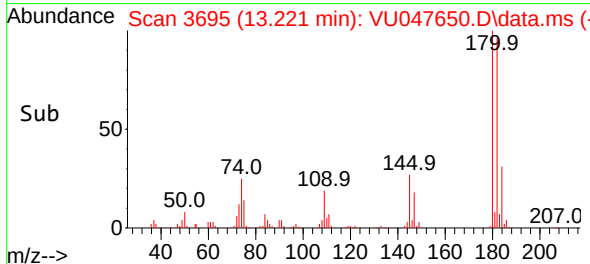
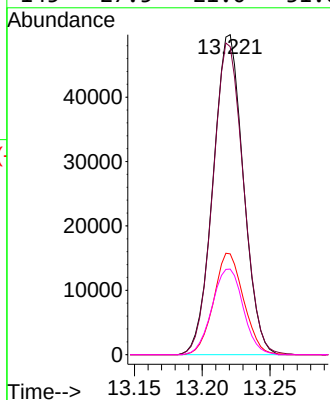
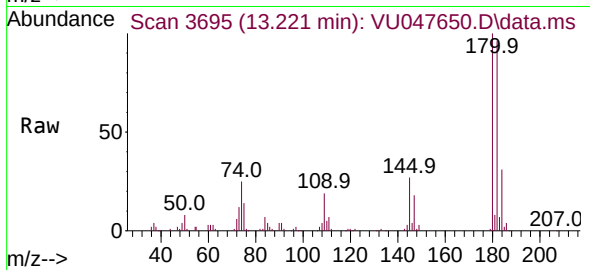


#69  
 1,3,5-Trichlorobenzene  
 Concen: 25.999 ug/L  
 RT: 13.221 min Scan# 3695  
 Delta R.T. 0.000 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tgt Ion:180 Resp: 77043

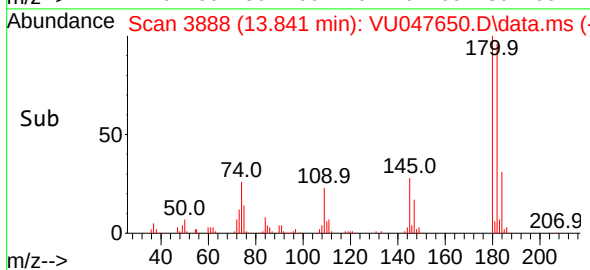
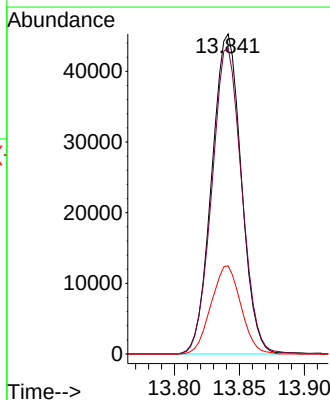
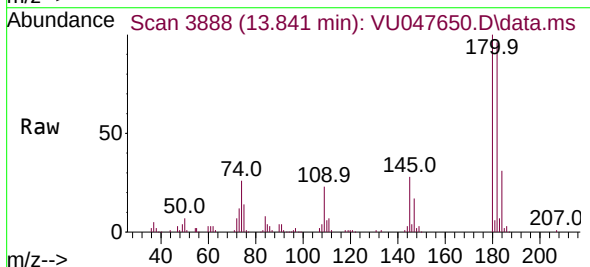
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 98.5  | 77.0  | 115.6 |
| 184 | 31.4  | 24.5  | 36.7  |
| 145 | 27.5  | 21.0  | 31.6  |

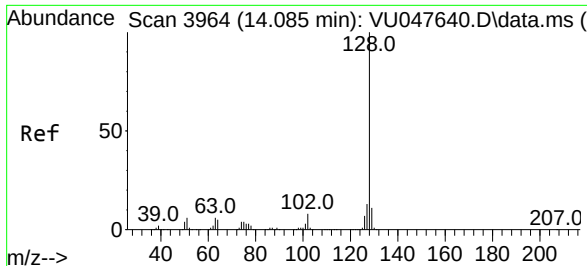


#70  
 1,2,4-trichlorobenzene  
 Concen: 27.562 ug/L  
 RT: 13.841 min Scan# 3888  
 Delta R.T. 0.003 min  
 Lab File: VU047650.D  
 Acq: 24 Mar 2022 22:16

Tgt Ion:180 Resp: 71537

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.6  | 76.2  | 114.2 |
| 145 | 27.7  | 21.8  | 32.8  |

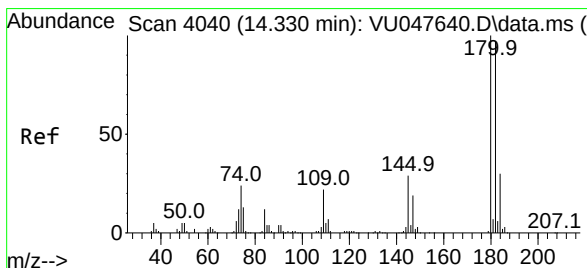
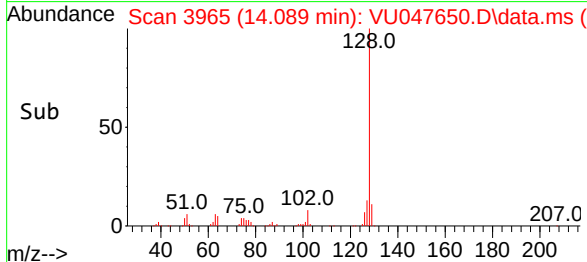
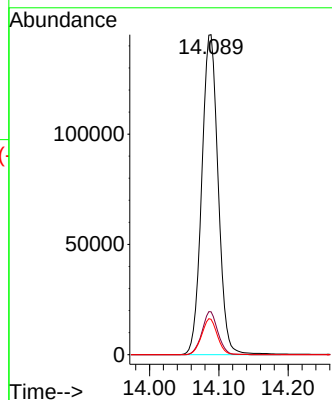
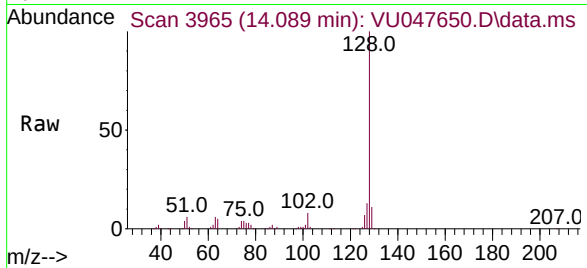




#71  
Naphthalene  
Concen: 30.809 ug/L  
RT: 14.089 min Scan# 3964  
Delta R.T. 0.003 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:128 Resp: 238405  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.2  
129 10.7 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 30.252 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.000 min  
Lab File: VU047650.D  
Acq: 24 Mar 2022 22:16

Tgt Ion:180 Resp: 78714  
Ion Ratio Lower Upper  
180 100  
182 96.7 77.4 116.0  
145 30.2 22.8 34.2

