

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072822\  
 Data File : VU050021.D  
 Acq On : 29 Jul 2022 06:18  
 Operator : SY/MD  
 Sample : N3890-02MS  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBEA3MS

Quant Time: Jul 29 06:43:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR072722WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 29 05:04:48 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250  | 114   | 85175    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417  | 117   | 84098    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 38706    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 32200    | 4.403    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 88.000%  |
| 7) Chloroethane-d5            | 1.912  | 69    | 26350    | 5.016    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 100.400% |
| 11) 1,1-Dichloroethene-d2     | 2.565  | 65    | 11512    | 4.567    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 91.400%  |
| 20) 2-Butanone-d5             | 4.633  | 46    | 98814    | 60.699   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 121.400% |
| 24) Chloroform-d              | 5.063  | 84    | 64750    | 5.350    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 107.000% |
| 26) 1,2-Dichloroethane-d4     | 5.703  | 65    | 32858    | 5.388    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 107.800% |
| 32) Benzene-d6                | 5.726  | 84    | 123372   | 4.965    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 99.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.690  | 67    | 41632    | 5.114    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 102.200% |
| 41) Toluene-d8                | 7.896  | 98    | 111100   | 5.030    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 100.600% |
| 43) trans-1,3-Dichloroprop... | 8.179  | 79    | 13666    | 4.790    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 95.800%  |
| 46) 2-Hexanone-d5             | 8.636  | 63    | 57678    | 53.999   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 108.000% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755 | 84    | 39368    | 5.755    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 115.200% |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 36884    | 5.138    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 102.800% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 33522    | 5.099    | ug/L   | 99       |
| 3) Chloromethane              | 1.520  | 50    | 41569    | 5.337    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.601  | 62    | 39707    | 5.424    | ug/L   | 99       |
| 6) Bromomethane               | 1.855  | 94    | 21535    | 5.314    | ug/L   | 99       |
| 8) Chloroethane               | 1.932  | 64    | 23621    | 5.690    | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 2.138  | 101   | 50089    | 5.809    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578  | 101   | 27116    | 5.341    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 48381    | 10.292   | ug/L # | 83       |
| 13) Acetone                   | 2.642  | 43    | 59196    | 51.733   | ug/L   | 96       |
| 14) Carbon disulfide          | 2.790  | 76    | 70154    | 4.913    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.957  | 43    | 9868     | 4.157    | ug/L   | 96       |
| 16) Methylene chloride        | 3.044  | 84    | 36625    | 5.067    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 3.366  | 73    | 75303    | 5.730    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96    | 29051    | 5.623    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 63147    | 5.958    | ug/L   | 99       |
| 21) 2-Butanone                | 4.713  | 43    | 106051   | 64.349   | ug/L   | 96       |
| 22) cis-1,2-Dichloroethene    | 4.668  | 96    | 38695    | 6.265    | ug/L   | 98       |
| 23) Bromochloromethane        | 4.977  | 128   | 16873    | 5.966    | ug/L   | 98       |
| 25) Chloroform                | 5.089  | 83    | 71858    | 6.049    | ug/L   | 99       |

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 Sample : N3890-02MS  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

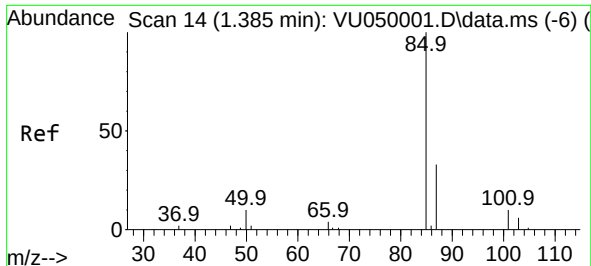
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBEA3MS

Quant Time: Jul 29 06:43:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR072722WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 29 05:04:48 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.797  | 62   | 40265    | 6.074  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane     | 5.317  | 97   | 48951    | 5.482  | ug/L  | 99       |
| 30) Cyclohexane               | 5.388  | 56   | 38235    | 5.073  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.526  | 117  | 40246    | 5.548  | ug/L  | 98       |
| 33) Benzene                   | 5.774  | 78   | 137215   | 5.590  | ug/L  | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 527331   | 88.385 | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.764  | 83   | 41086    | 5.221  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 38161    | 5.641  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.105  | 83   | 47977    | 5.862  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 42050    | 4.804  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 237003   | 60.638 | ug/L  | 99       |
| 42) Toluene                   | 7.970  | 91   | 141147   | 5.655  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 36407    | 4.953  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 29513    | 5.839  | ug/L  | 96       |
| 47) Tetrachloroethene         | 8.552  | 164  | 98159    | 22.860 | ug/L  | 96       |
| 48) 2-Hexanone                | 8.684  | 43   | 190590   | 63.969 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.809  | 129  | 32938    | 5.955  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 25920    | 5.775  | ug/L  | 94       |
| 51) Chlorobenzene             | 9.446  | 112  | 86845    | 5.482  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 131677   | 5.386  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.693  | 106  | 49201    | 5.285  | ug/L  | 97       |
| 54) o-Xylene                  | 10.102 | 106  | 50347    | 5.578  | ug/L  | 96       |
| 55) Styrene                   | 10.115 | 104  | 74736    | 4.861  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 39244    | 5.965  | ug/L  | 95       |
| 59) Bromoform                 | 10.292 | 173  | 18334    | 5.893  | ug/L  | 100      |
| 60) Isopropylbenzene          | 10.484 | 105  | 125184   | 5.475  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.822 | 75   | 26392    | 5.871  | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 96952    | 5.219  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 92941    | 5.163  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 60445    | 5.521  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 59289    | 5.473  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 61385    | 5.643  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 5437     | 6.123  | ug/L  | 83       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 41314    | 5.234  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 31177    | 4.951  | ug/L  | 100      |
| 71) Naphthalene               | 14.086 | 128  | 58329    | 4.672  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 32233    | 5.157  | ug/L  | 100      |

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

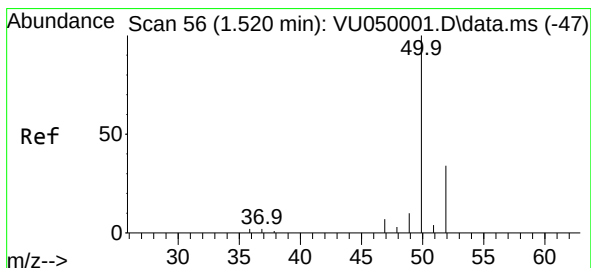
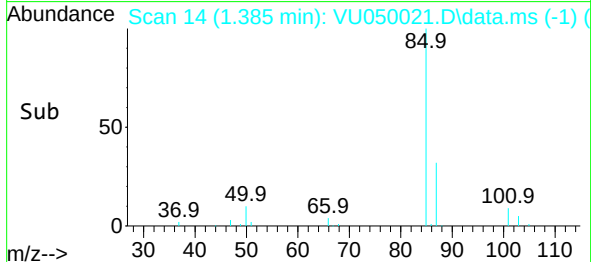
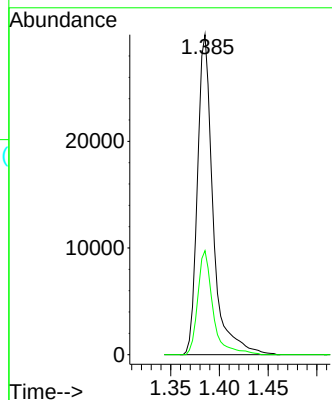
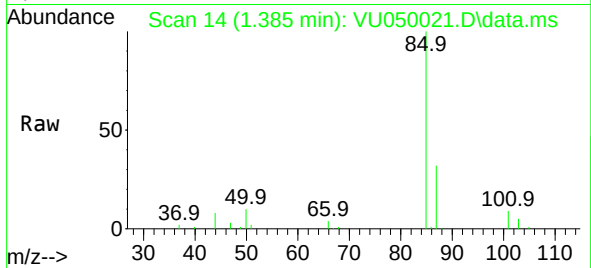




#2  
Dichlorodifluoromethane  
Concen: 5.099 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

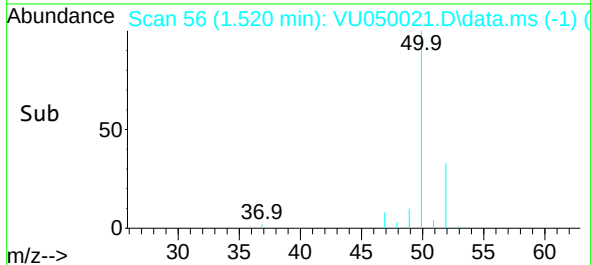
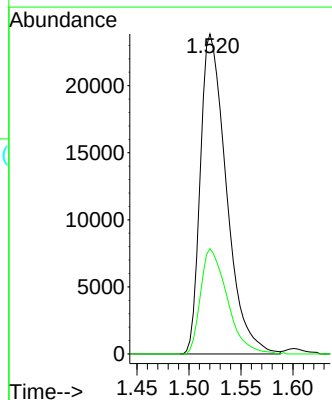
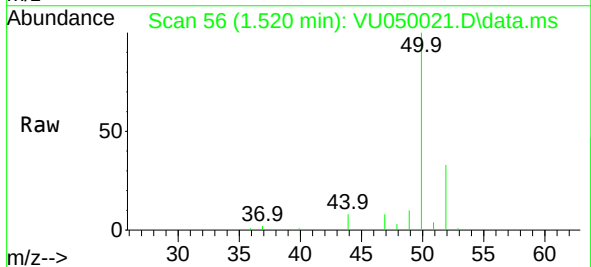
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

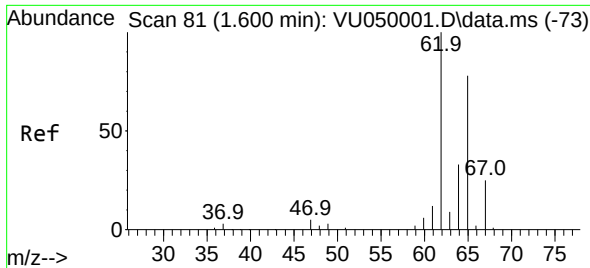
Tgt Ion: 85 Resp: 33522  
Ion Ratio Lower Upper  
85 100  
87 31.7 25.7 38.5



#3  
Chloromethane  
Concen: 5.337 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion: 50 Resp: 41569  
Ion Ratio Lower Upper  
50 100  
52 32.9 22.4 41.6

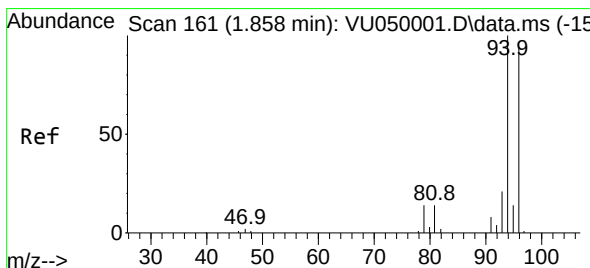
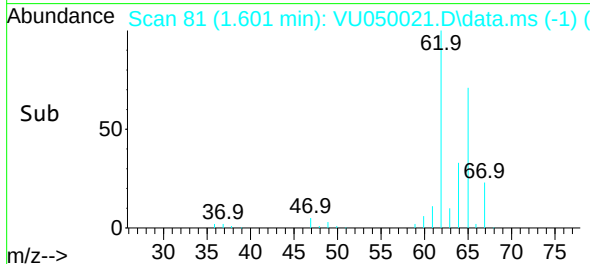
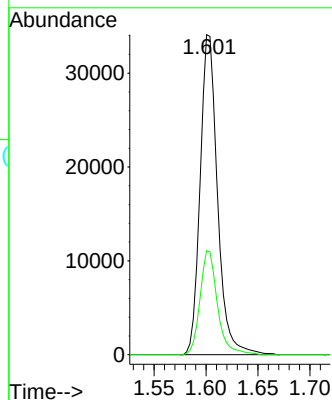
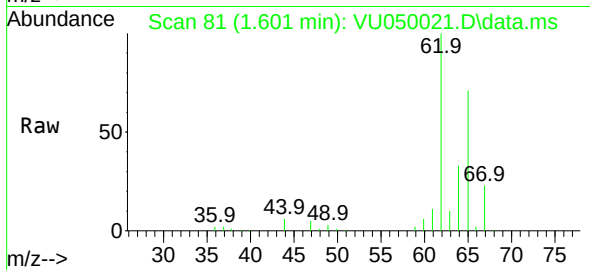




#5  
 Vinyl chloride  
 Concen: 5.424 ug/L  
 RT: 1.601 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VU050021.D  
 Acq: 29 Jul 2022 06:18

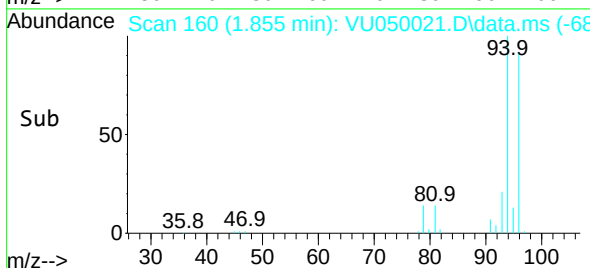
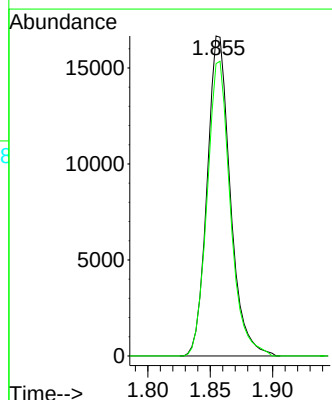
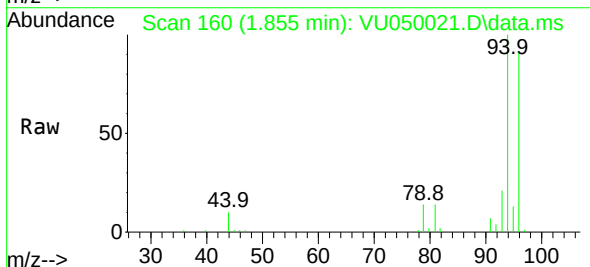
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBEA3MS

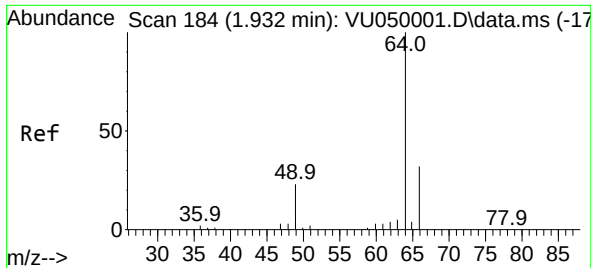
Tgt Ion: 62 Resp: 39707  
 Ion Ratio Lower Upper  
 62 100  
 64 32.5 22.5 41.9



#6  
 Bromomethane  
 Concen: 5.314 ug/L  
 RT: 1.855 min Scan# 160  
 Delta R.T. -0.003 min  
 Lab File: VU050021.D  
 Acq: 29 Jul 2022 06:18

Tgt Ion: 94 Resp: 21535  
 Ion Ratio Lower Upper  
 94 100  
 96 91.3 64.5 119.9

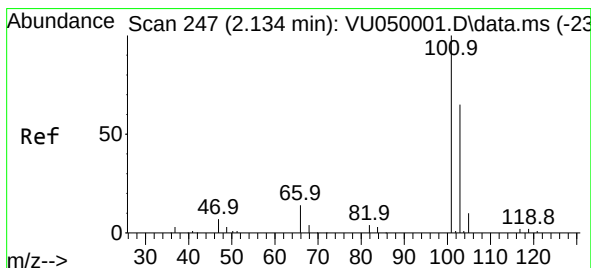
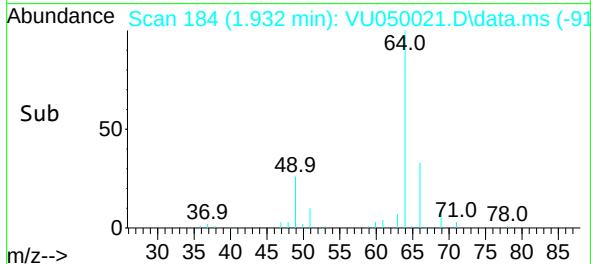
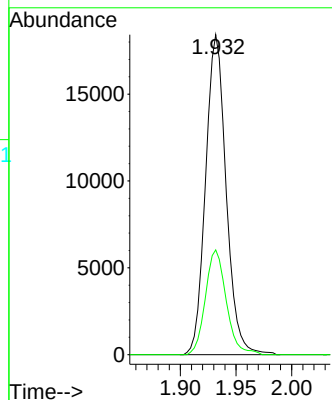
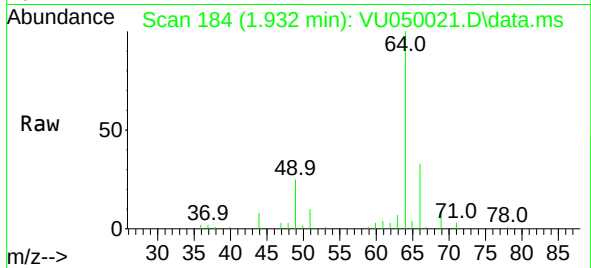




#8  
Chloroethane  
Concen: 5.690 ug/L  
RT: 1.932 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

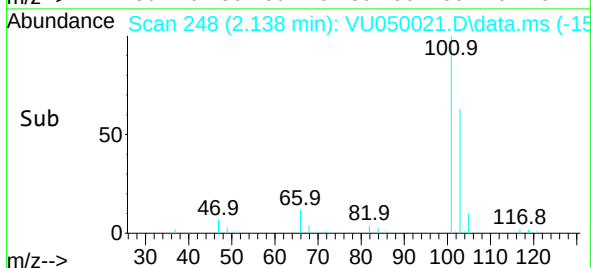
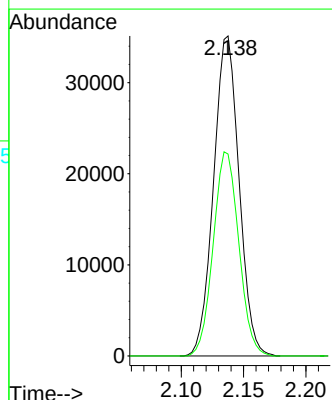
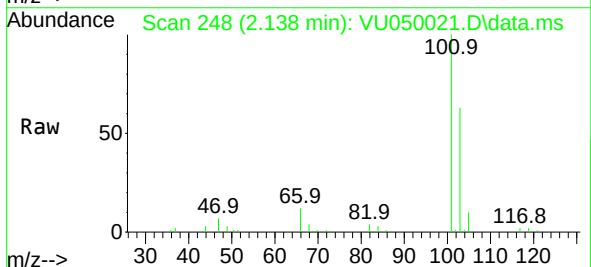
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

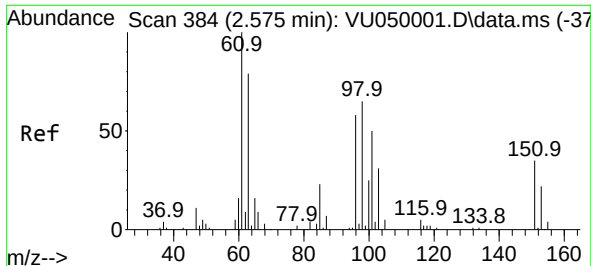
Tgt Ion: 64 Resp: 23621  
Ion Ratio Lower Upper  
64 100  
66 32.8 21.4 39.8



#9  
Trichlorofluoromethane  
Concen: 5.809 ug/L  
RT: 2.138 min Scan# 248  
Delta R.T. 0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion:101 Resp: 50089  
Ion Ratio Lower Upper  
101 100  
103 63.9 51.0 76.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.341 ug/L

RT: 2.578 min Scan# 384

Delta R.T. 0.003 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

YBEA3MS

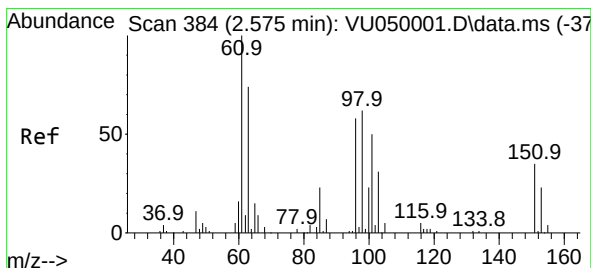
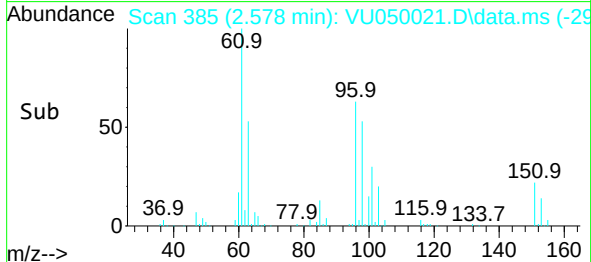
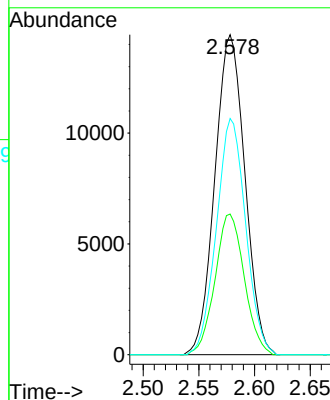
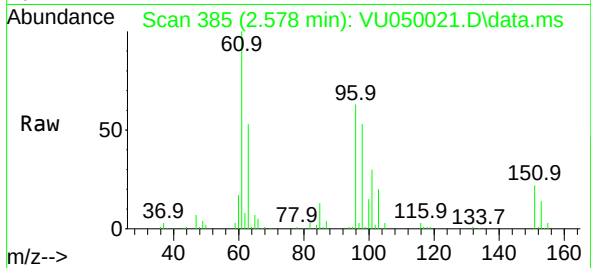
Tgt Ion:101 Resp: 27116

Ion Ratio Lower Upper

101 100

85 42.8 34.1 51.1

151 71.9 56.6 85.0



#12

1,1-Dichloroethene

Concen: 10.292 ug/L

RT: 2.578 min Scan# 385

Delta R.T. 0.003 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

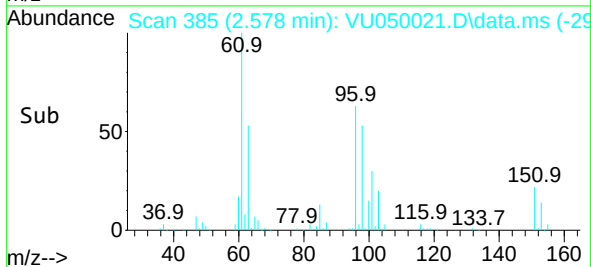
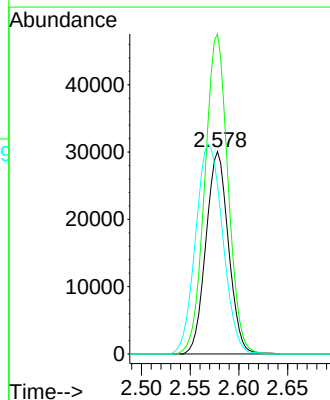
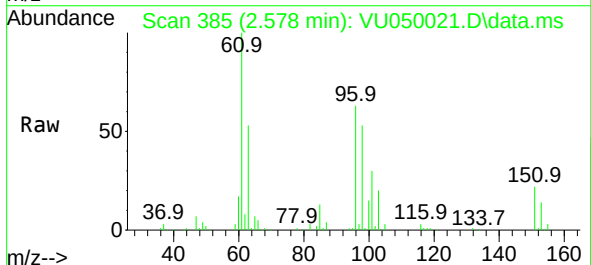
Tgt Ion: 96 Resp: 48381

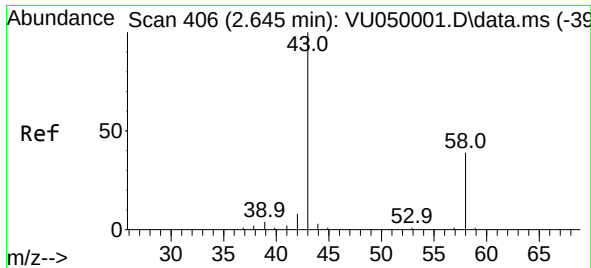
Ion Ratio Lower Upper

96 100

61 158.1 115.7 214.9

63 83.6 84.8 157.4#





#13

Acetone

Concen: 51.733 ug/L

RT: 2.642 min Scan# 406

Delta R.T. -0.003 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

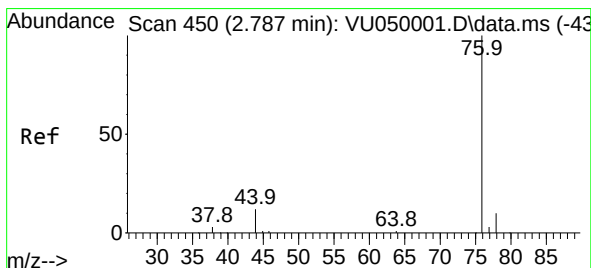
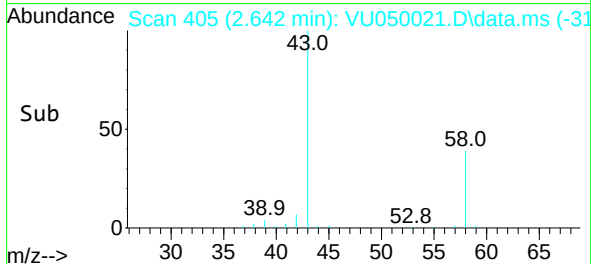
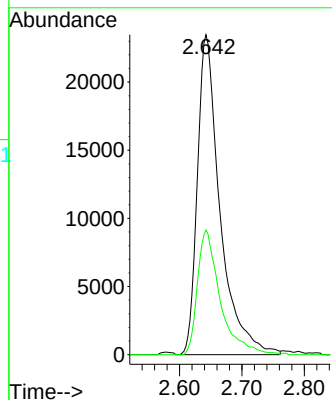
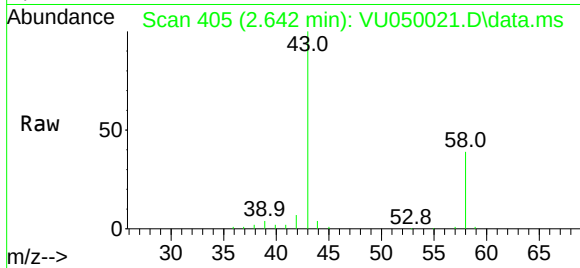
YBEA3MS

Tgt Ion: 43 Resp: 59196

Ion Ratio Lower Upper

43 100

58 39.1 0.0 73.0



#14

Carbon disulfide

Concen: 4.913 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.003 min

Lab File: VU050021.D

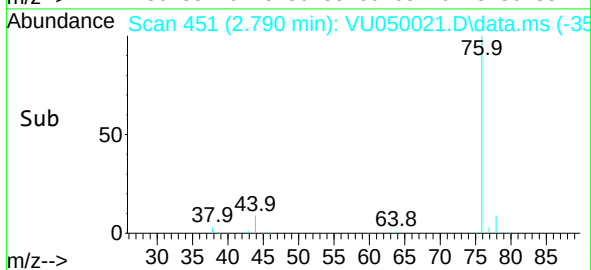
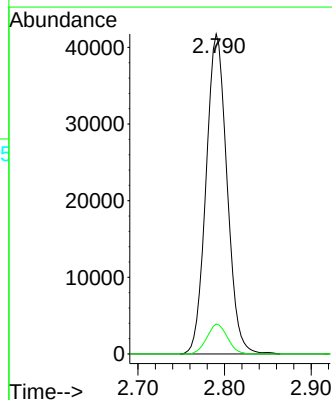
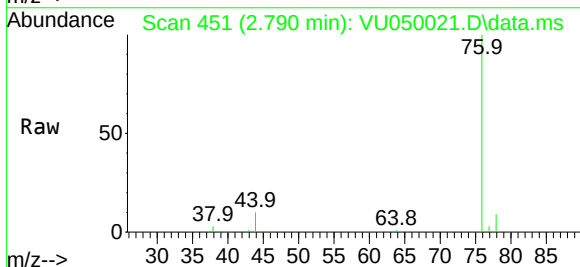
Acq: 29 Jul 2022 06:18

Tgt Ion: 76 Resp: 70154

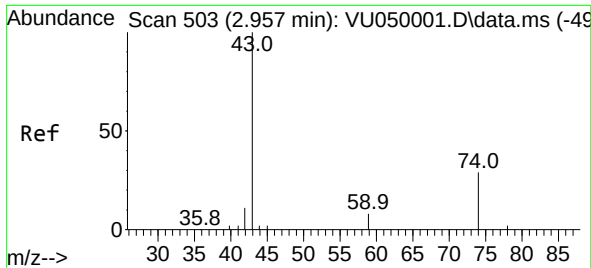
Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0



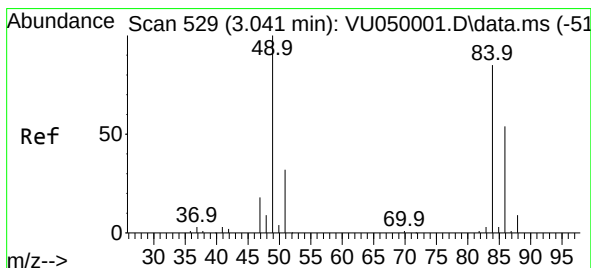
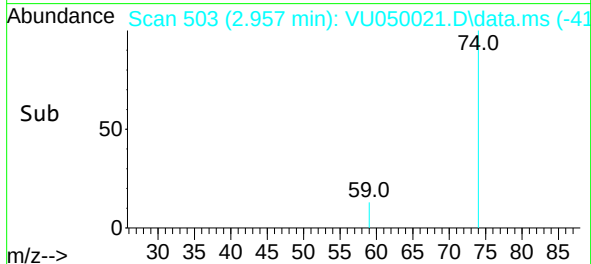
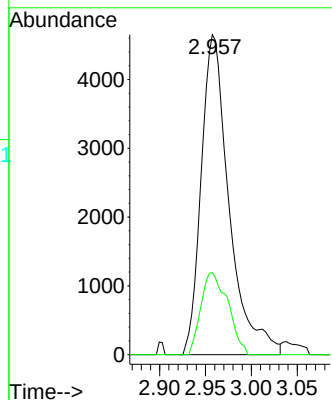
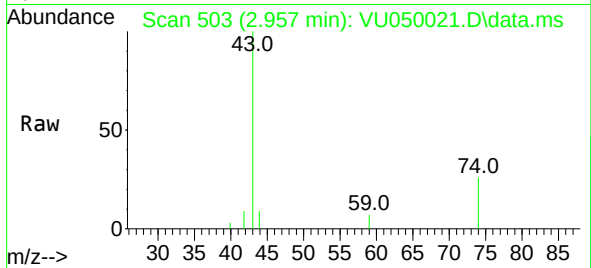




#15  
Methyl Acetate  
Concen: 4.157 ug/L  
RT: 2.957 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

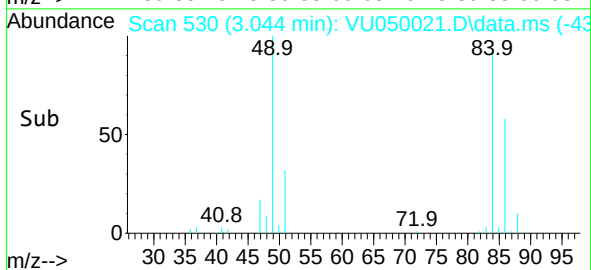
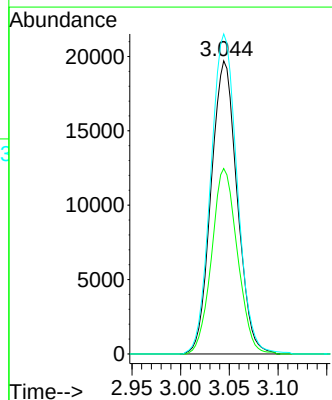
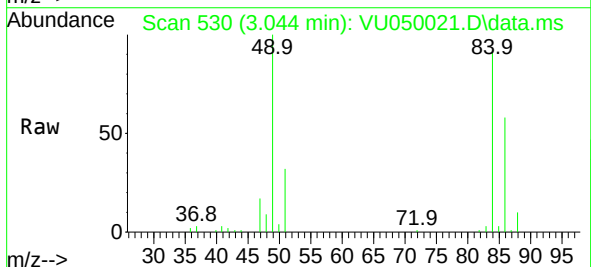
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

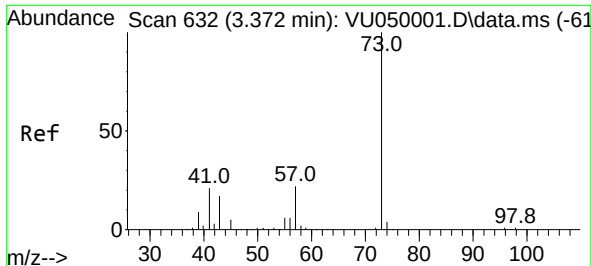
Tgt Ion: 43 Resp: 9868  
Ion Ratio Lower Upper  
43 100  
74 24.8 21.6 32.4



#16  
Methylene chloride  
Concen: 5.067 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion: 84 Resp: 36625  
Ion Ratio Lower Upper  
84 100  
86 63.3 45.2 84.0  
49 109.2 77.6 144.0





#17

Methyl tert-butyl Ether

Concen: 5.730 ug/L

RT: 3.366 min Scan# 61

Delta R.T. -0.006 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

YBEA3MS

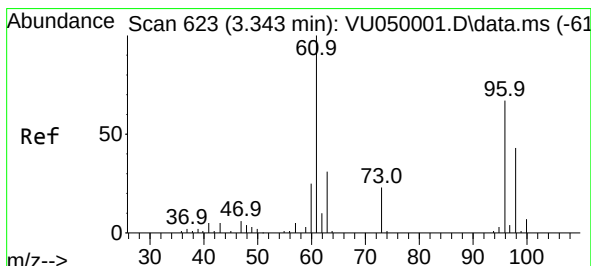
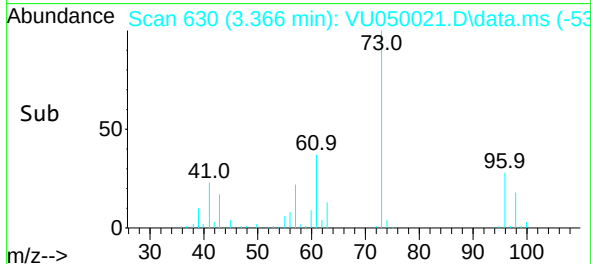
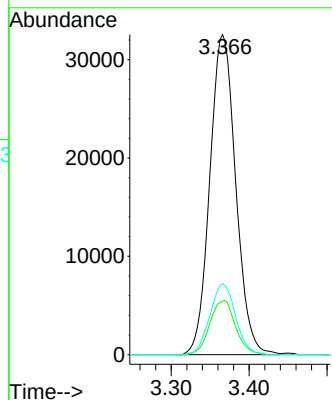
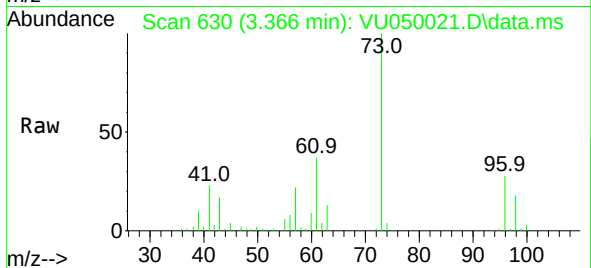
Tgt Ion: 73 Resp: 75303

Ion Ratio Lower Upper

73 100

43 16.8 13.8 20.6

57 21.9 17.9 26.9



#18

trans-1,2-Dichloroethene

Concen: 5.623 ug/L

RT: 3.353 min Scan# 626

Delta R.T. 0.010 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

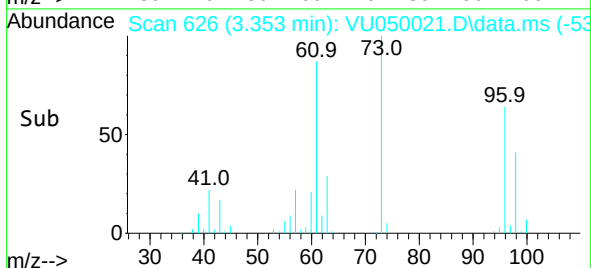
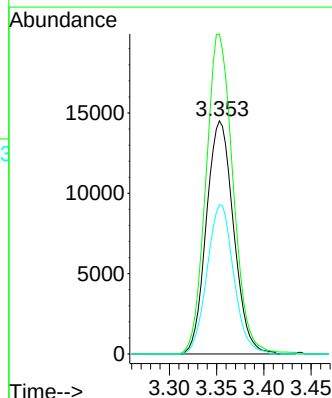
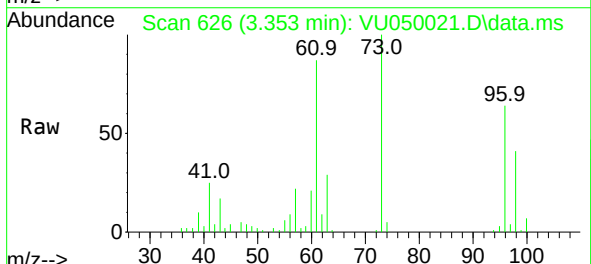
Tgt Ion: 96 Resp: 29051

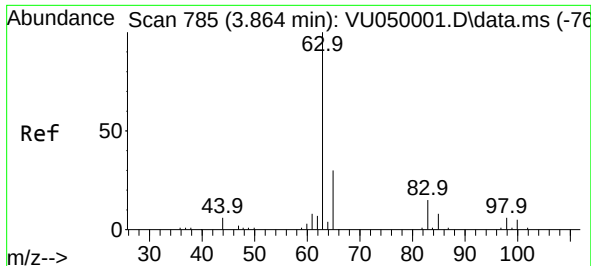
Ion Ratio Lower Upper

96 100

61 137.3 98.0 182.0

98 64.1 44.5 82.7





#19

1,1-Dichloroethane

Concen: 5.958 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

YBEA3MS

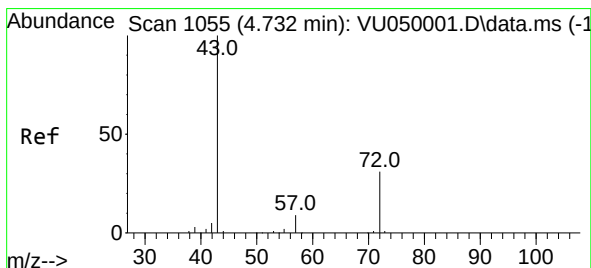
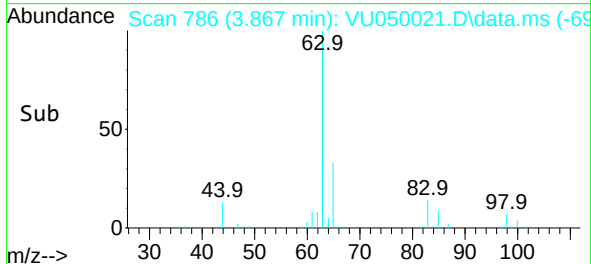
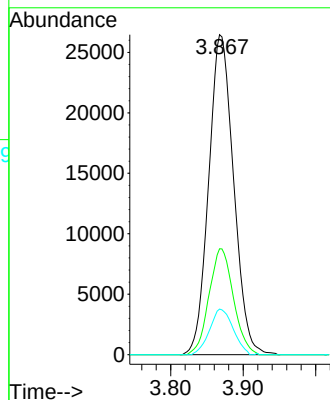
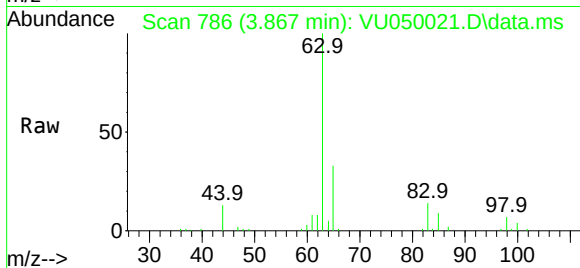
Tgt Ion: 63 Resp: 63147

Ion Ratio Lower Upper

63 100

65 33.1 23.4 43.6

83 14.3 9.4 17.4



#21

2-Butanone

Concen: 64.349 ug/L

RT: 4.713 min Scan# 1049

Delta R.T. -0.019 min

Lab File: VU050021.D

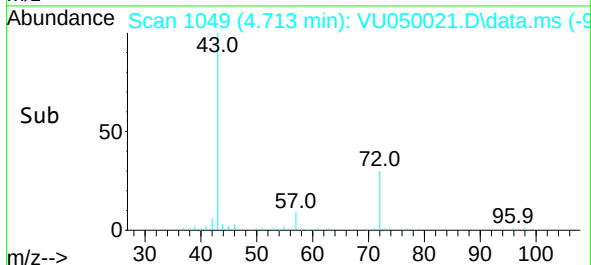
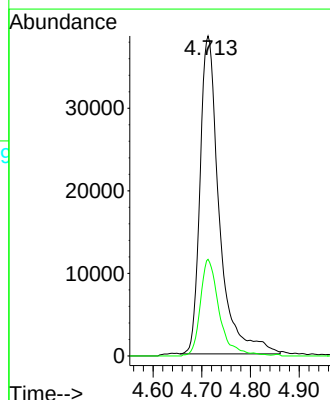
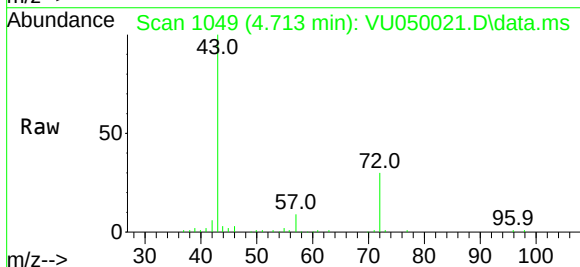
Acq: 29 Jul 2022 06:18

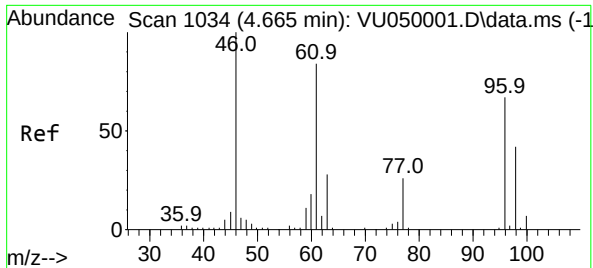
Tgt Ion: 43 Resp: 106051

Ion Ratio Lower Upper

43 100

72 29.4 15.8 47.3

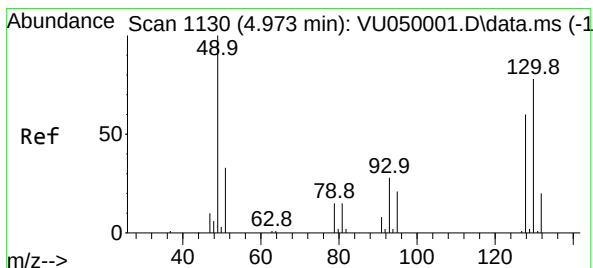
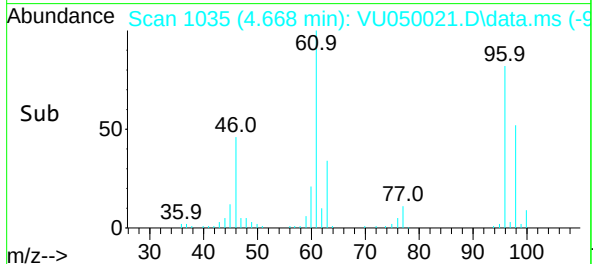
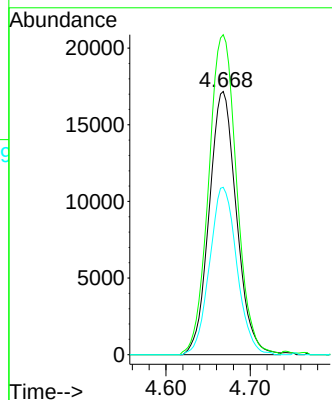
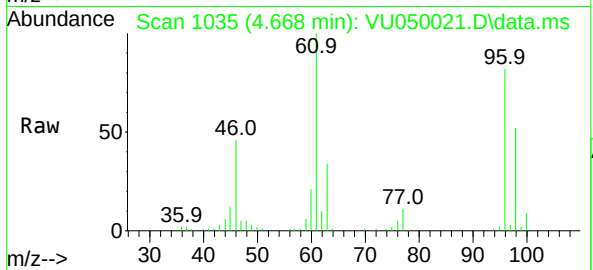




#22  
 cis-1,2-Dichloroethene  
 Concen: 6.265 ug/L  
 RT: 4.668 min Scan# 1034  
 Delta R.T. 0.003 min  
 Lab File: VU050021.D  
 Acq: 29 Jul 2022 06:18

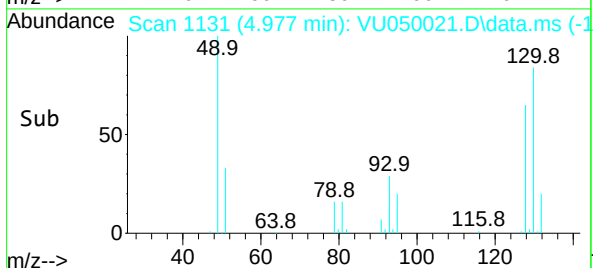
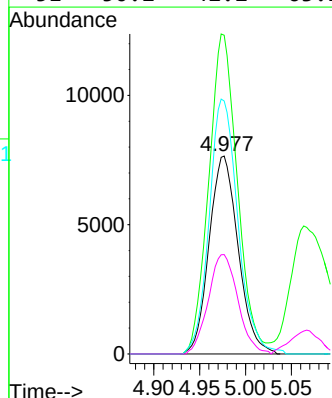
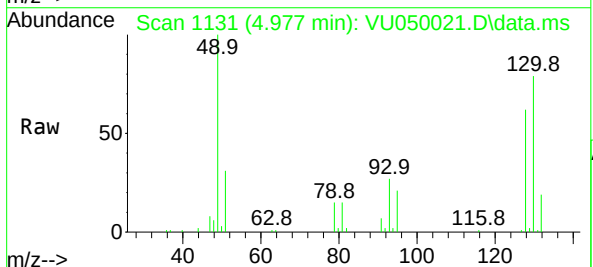
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBEA3MS

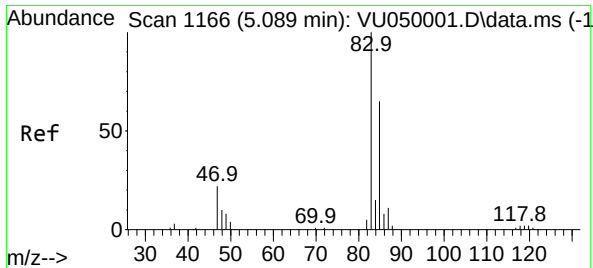
Tgt Ion: 96 Resp: 38695  
 Ion Ratio Lower Upper  
 96 100  
 61 121.6 87.2 161.9  
 98 63.6 44.7 83.1



#23  
 Bromochloromethane  
 Concen: 5.966 ug/L  
 RT: 4.977 min Scan# 1131  
 Delta R.T. 0.003 min  
 Lab File: VU050021.D  
 Acq: 29 Jul 2022 06:18

Tgt Ion: 128 Resp: 16873  
 Ion Ratio Lower Upper  
 128 100  
 49 161.0 111.4 207.0  
 130 127.8 88.7 164.7  
 51 50.2 42.2 63.2





#25

Chloroform

Concen: 6.049 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

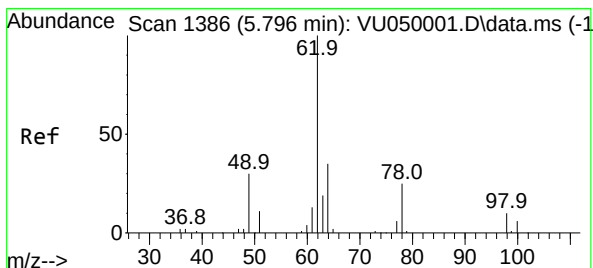
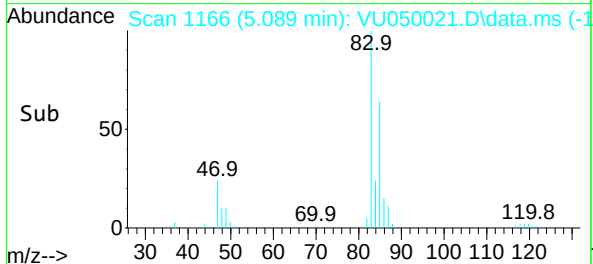
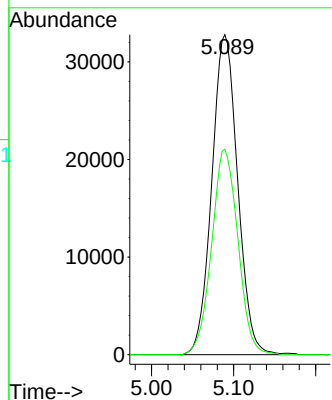
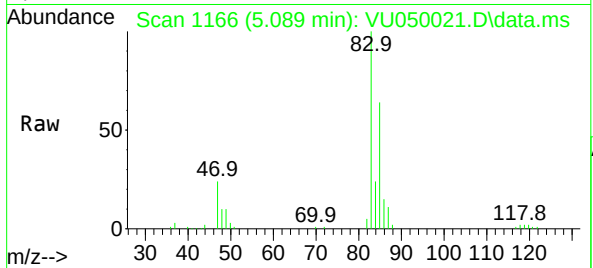
YBEA3MS

Tgt Ion: 83 Resp: 71858

Ion Ratio Lower Upper

83 100

85 64.3 44.4 82.4



#27

1,2-Dichloroethane

Concen: 6.074 ug/L

RT: 5.797 min Scan# 1386

Delta R.T. 0.000 min

Lab File: VU050021.D

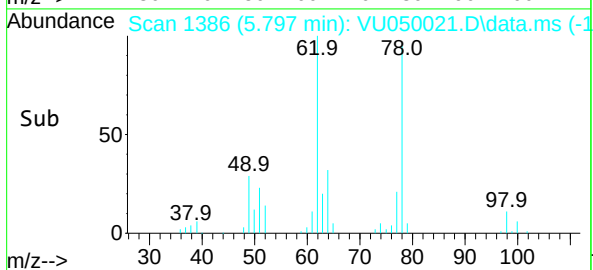
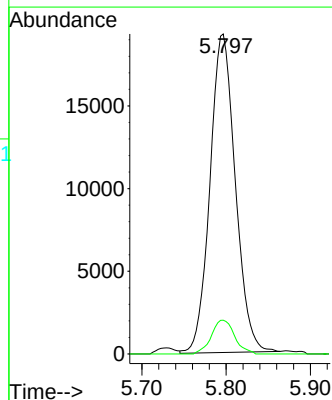
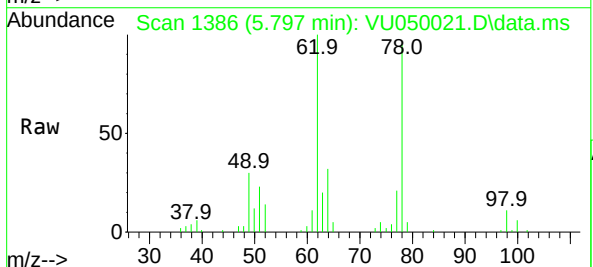
Acq: 29 Jul 2022 06:18

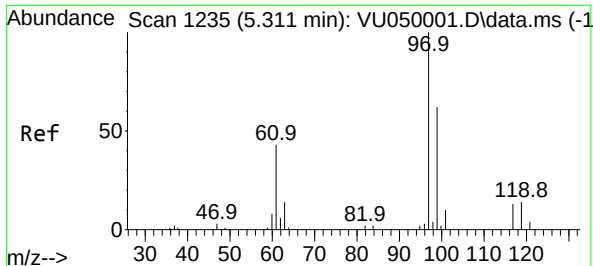
Tgt Ion: 62 Resp: 40265

Ion Ratio Lower Upper

62 100

98 10.6 7.9 11.9

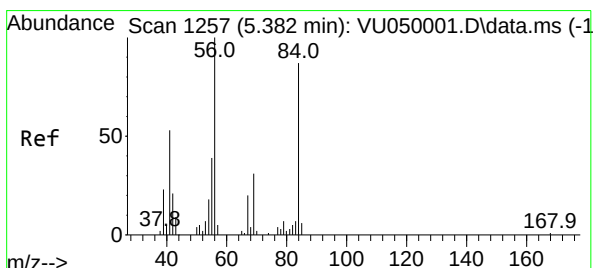
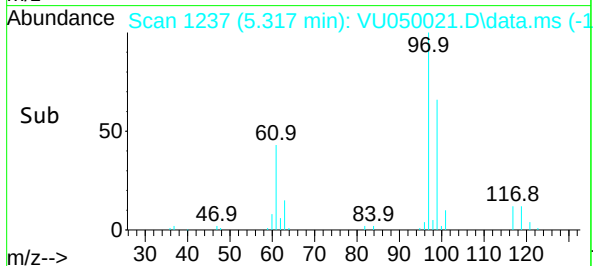
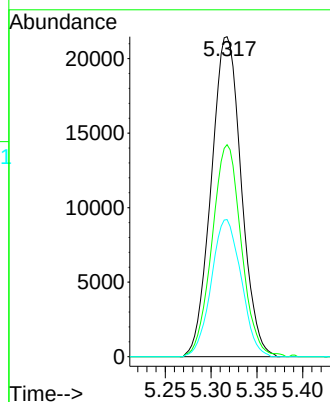
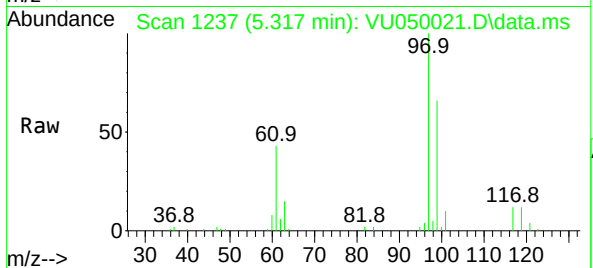




#29  
1,1,1-Trichloroethane  
Concen: 5.482 ug/L  
RT: 5.317 min Scan# 1235  
Delta R.T. 0.007 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

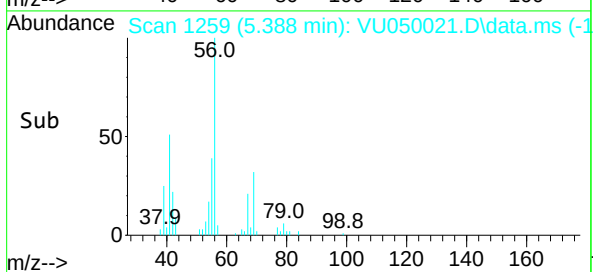
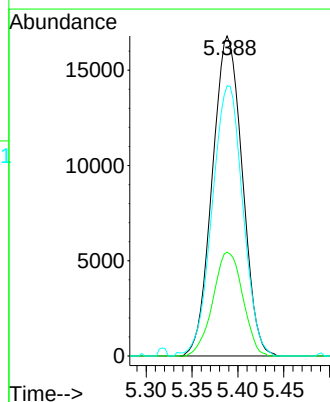
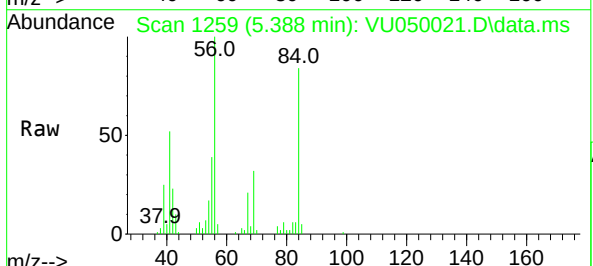
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

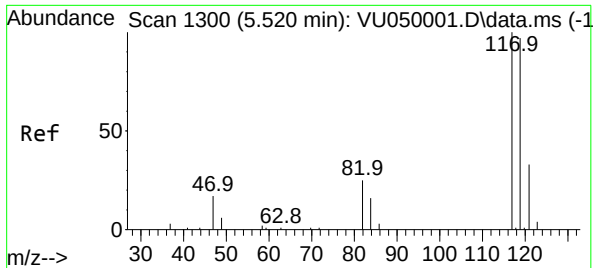
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 48951 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.6  | 52.0  | 78.0  |
| 61       | 42.5  | 35.0  | 52.6  |



#30  
Cyclohexane  
Concen: 5.073 ug/L  
RT: 5.388 min Scan# 1259  
Delta R.T. 0.007 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 38235 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 32.2  | 25.1  | 37.7  |
| 84       | 86.4  | 70.1  | 105.1 |

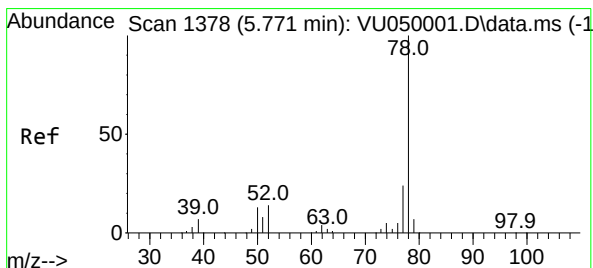
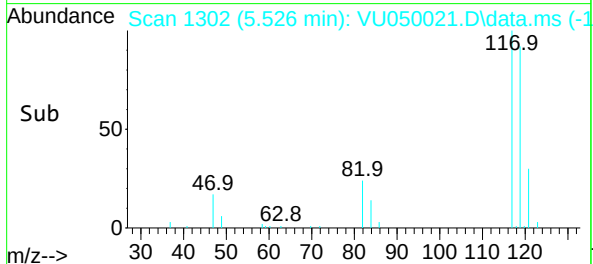
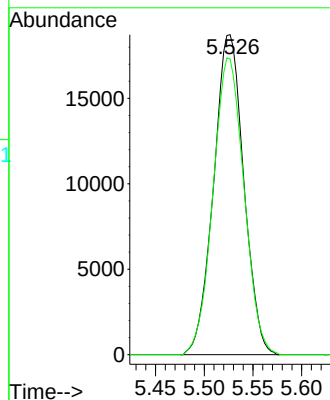
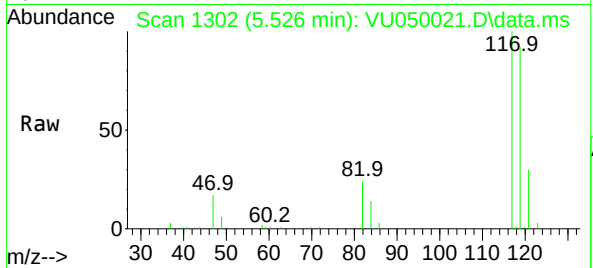




#31  
Carbon tetrachloride  
Concen: 5.548 ug/L  
RT: 5.526 min Scan# 117  
Delta R.T. 0.007 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

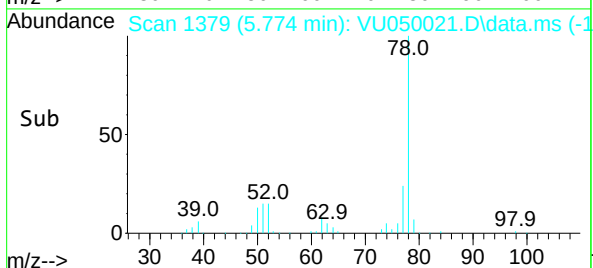
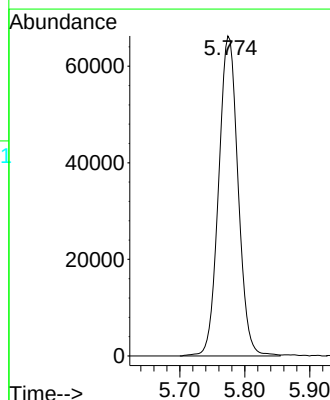
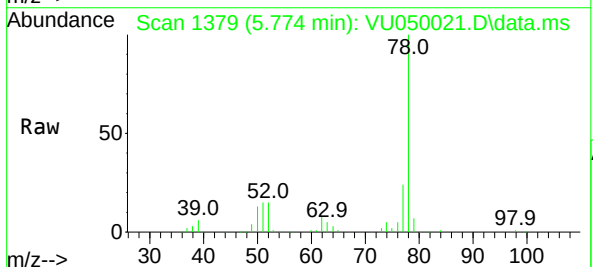
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

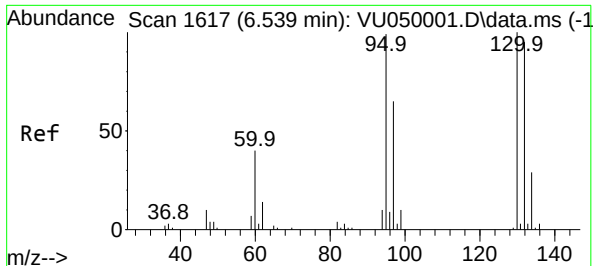
Tgt Ion:117 Resp: 40246  
Ion Ratio Lower Upper  
117 100  
119 95.2 77.8 116.6



#33  
Benzene  
Concen: 5.590 ug/L  
RT: 5.774 min Scan# 1379  
Delta R.T. 0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion: 78 Resp: 137215

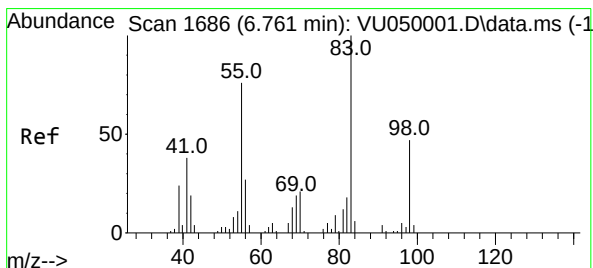
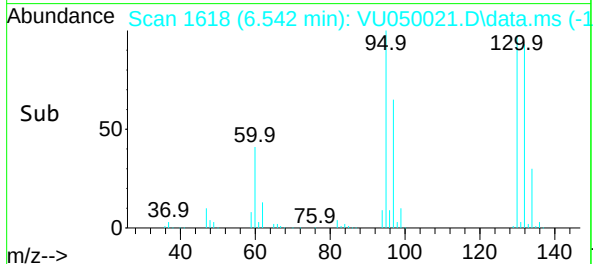
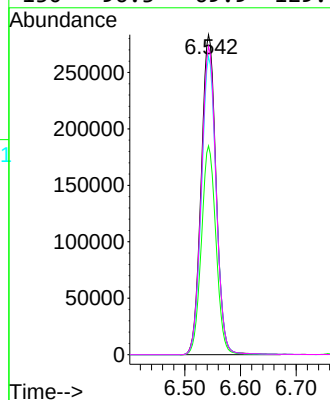
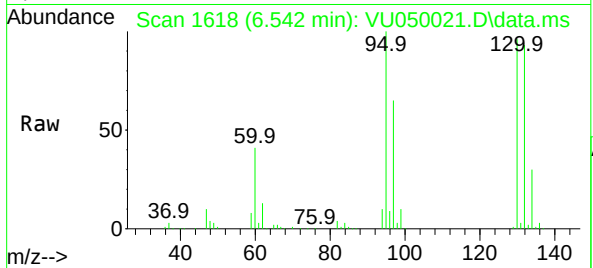




#34  
Trichloroethene  
Concen: 88.385 ug/L  
RT: 6.542 min Scan# 1618  
Delta R.T. 0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

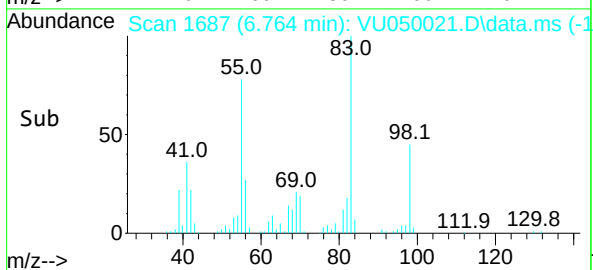
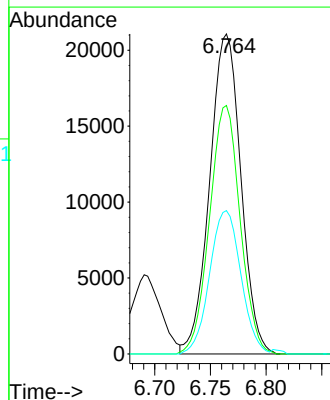
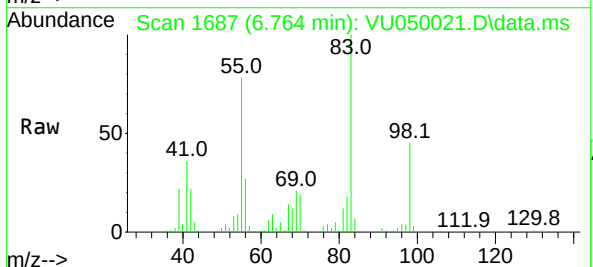
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

Tgt Ion: 95 Resp: 527331  
Ion Ratio Lower Upper  
95 100  
97 65.3 45.6 84.8  
132 93.1 66.8 124.2  
130 96.3 69.9 129.7

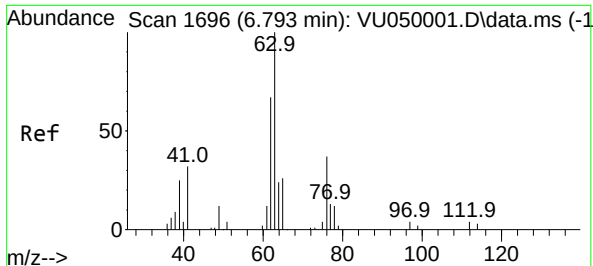


#35  
Methylcyclohexane  
Concen: 5.221 ug/L  
RT: 6.764 min Scan# 1687  
Delta R.T. 0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion: 83 Resp: 41086  
Ion Ratio Lower Upper  
83 100  
55 76.1 61.6 92.4  
98 44.9 34.8 52.2







#37

1,2-Dichloropropane

Concen: 5.641 ug/L

RT: 6.793 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

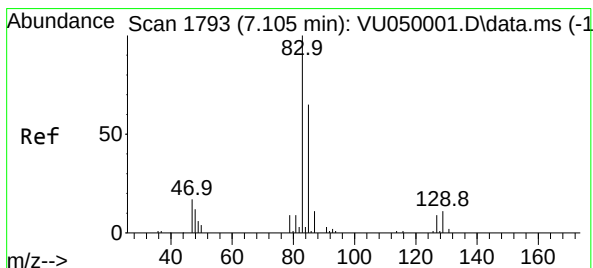
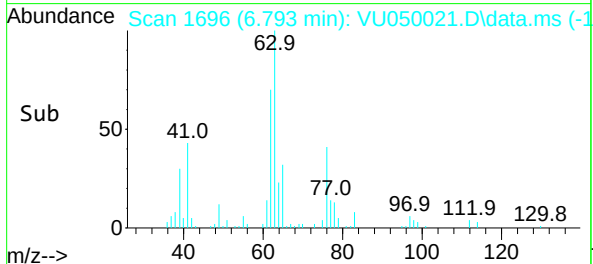
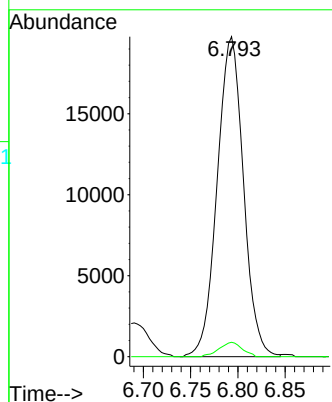
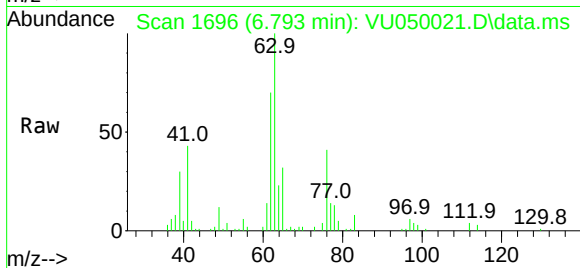
YBEA3MS

Tgt Ion: 63 Resp: 38161

Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.6



#38

Bromodichloromethane

Concen: 5.862 ug/L

RT: 7.105 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

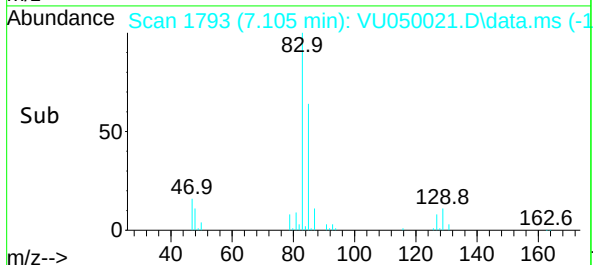
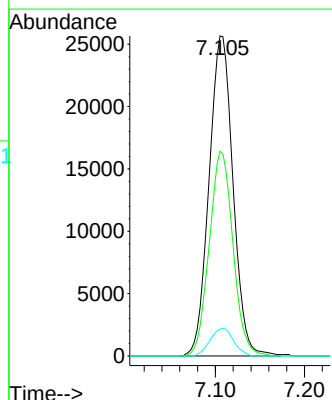
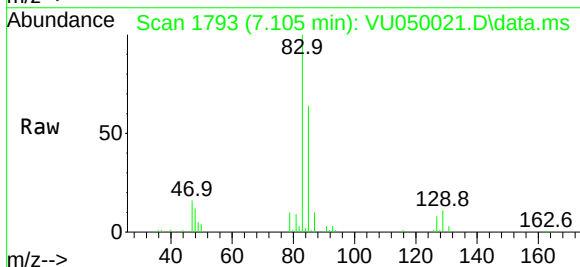
Tgt Ion: 83 Resp: 47977

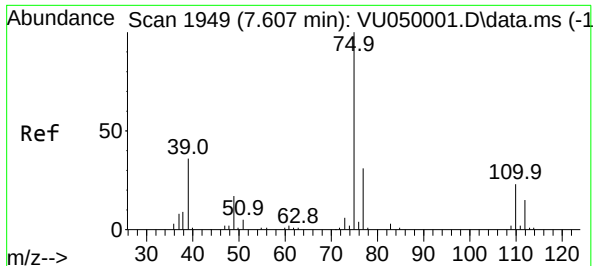
Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.5

127 8.4 7.2 10.8





#39

cis-1,3-Dichloropropene

Concen: 4.804 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

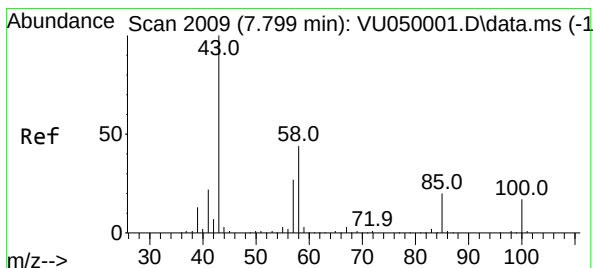
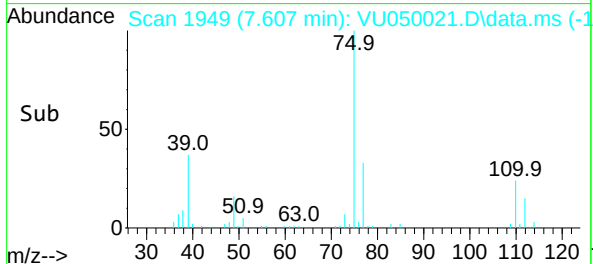
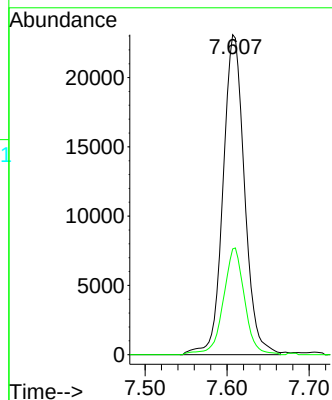
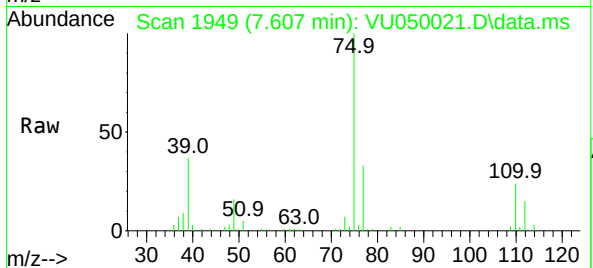
YBEA3MS

Tgt Ion: 75 Resp: 42050

Ion Ratio Lower Upper

75 100

77 33.0 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 60.638 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.006 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

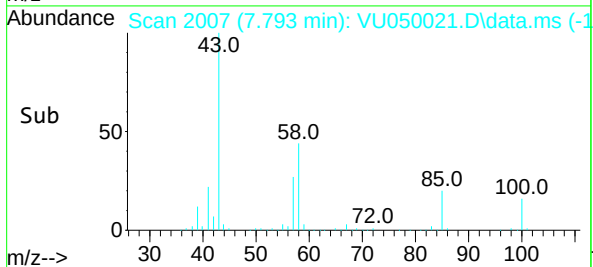
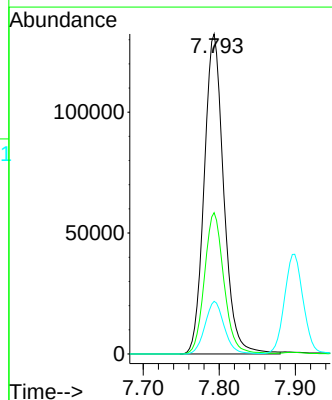
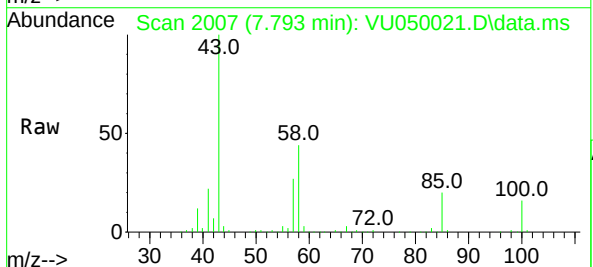
Tgt Ion: 43 Resp: 237003

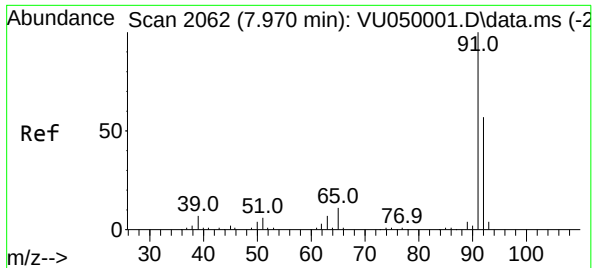
Ion Ratio Lower Upper

43 100

58 44.0 35.5 53.3

100 16.2 13.2 19.8

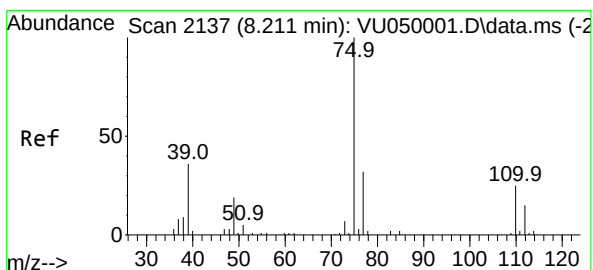
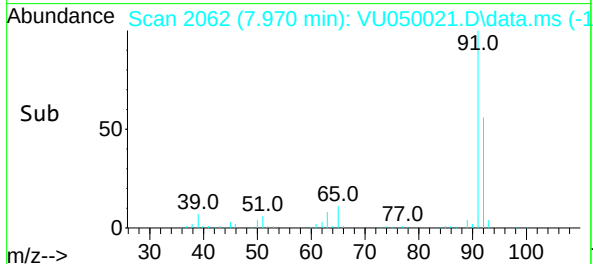
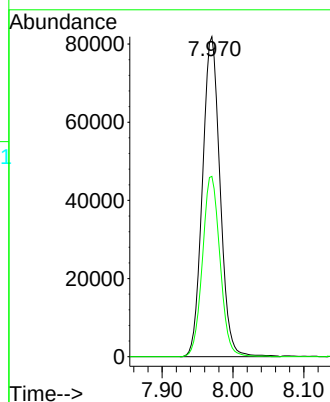
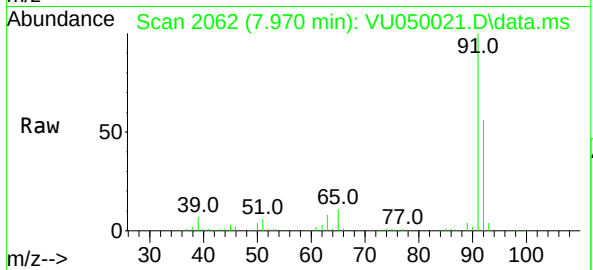




#42  
Toluene  
Concen: 5.655 ug/L  
RT: 7.970 min Scan# 2062  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

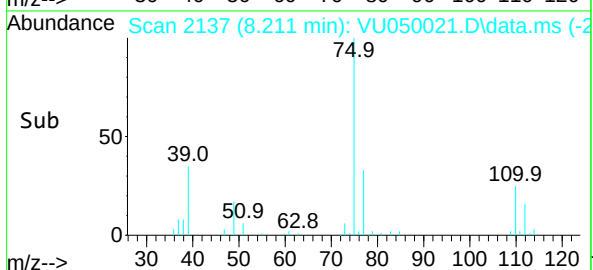
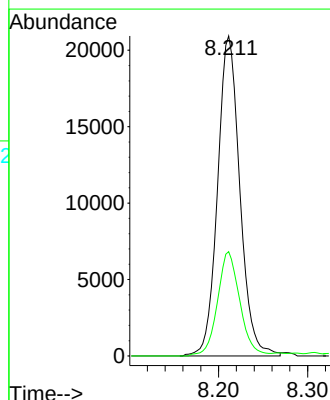
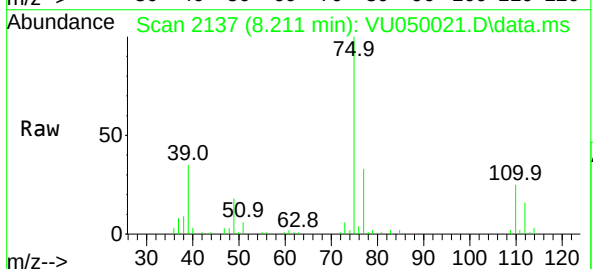
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

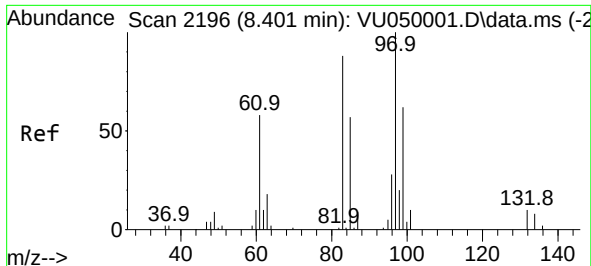
Tgt Ion: 91 Resp: 141147  
Ion Ratio Lower Upper  
91 100  
92 56.4 40.5 75.3



#44  
trans-1,3-Dichloropropene  
Concen: 4.953 ug/L  
RT: 8.211 min Scan# 2137  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion: 75 Resp: 36407  
Ion Ratio Lower Upper  
75 100  
77 32.6 24.1 44.8

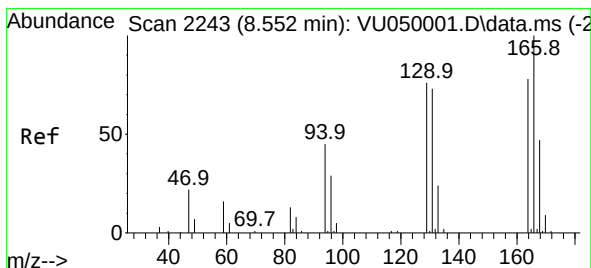
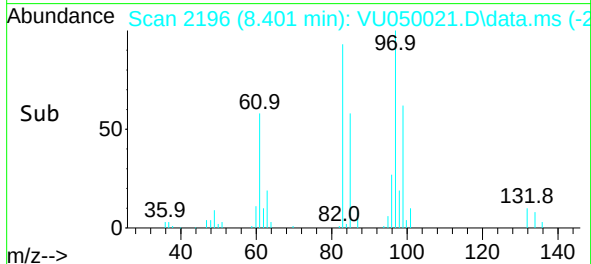
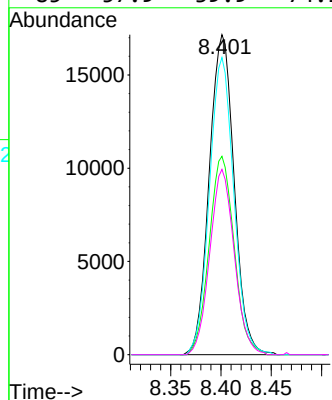
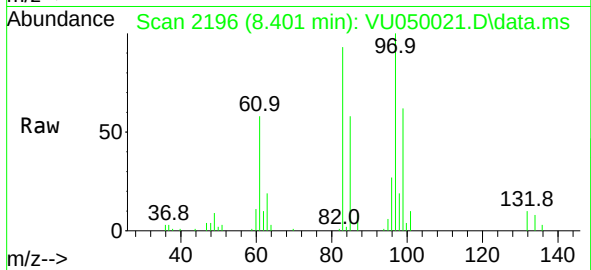




#45  
1,1,2-Trichloroethane  
Concen: 5.839 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

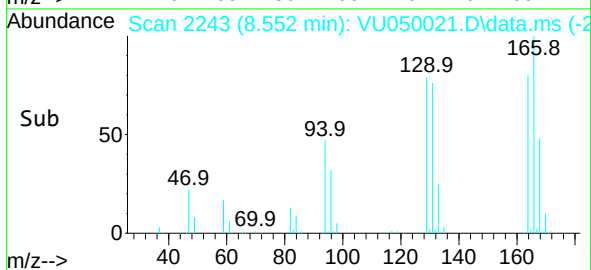
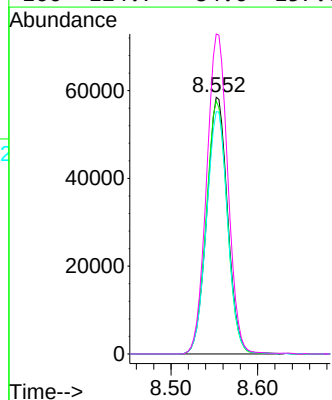
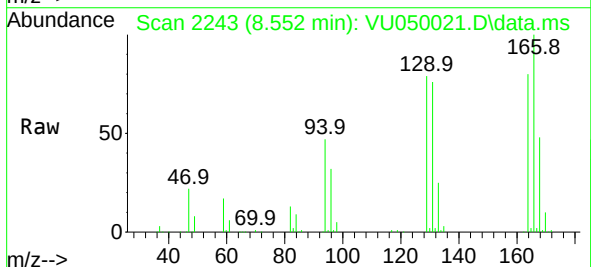
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

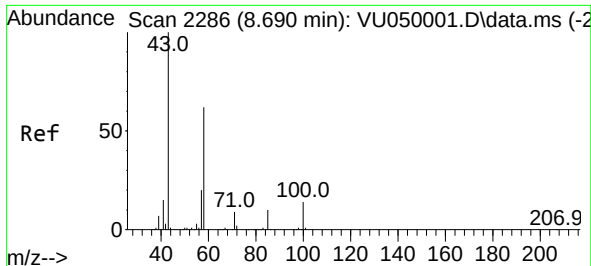
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 29513 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.0  | 43.5  | 80.9  |
| 83       | 92.9  | 59.9  | 111.3 |
| 85       | 57.9  | 39.9  | 74.1  |



#47  
Tetrachloroethene  
Concen: 22.860 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

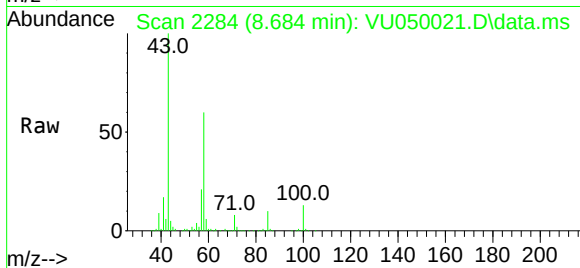
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 98159 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.5  | 66.3  | 123.1 |
| 131      | 94.4  | 63.1  | 117.1 |
| 166      | 124.7 | 84.6  | 157.0 |



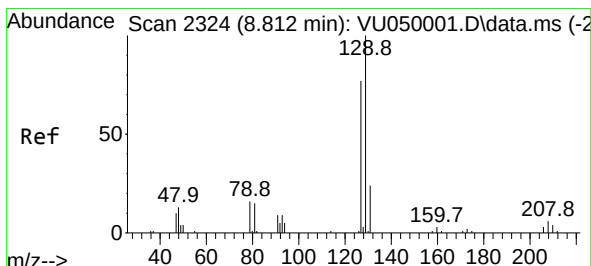
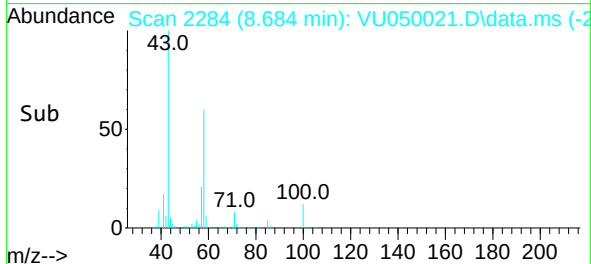
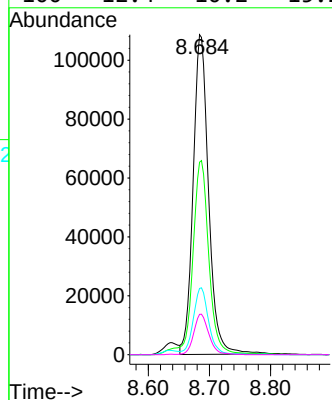


#48  
2-Hexanone  
Concen: 63.969 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

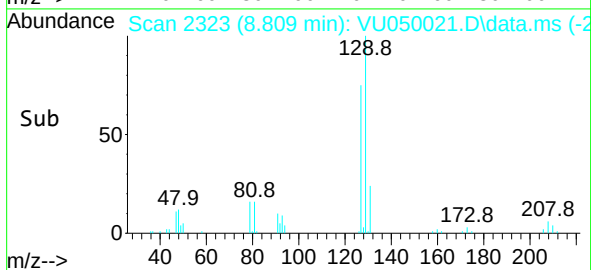
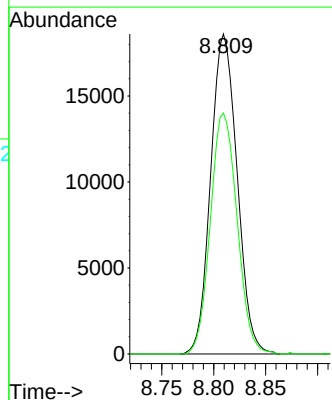
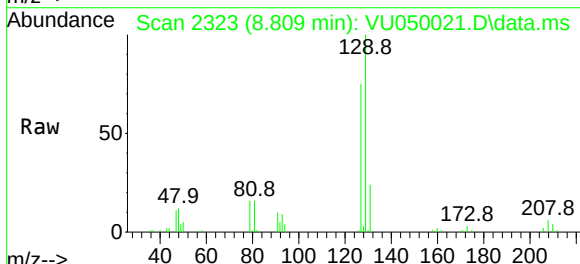


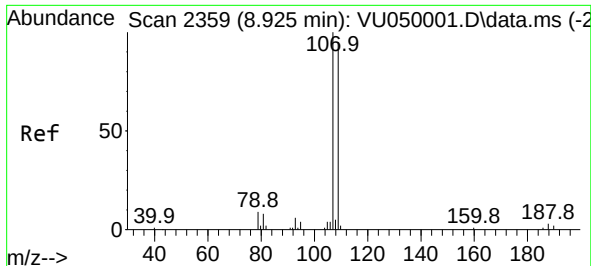
Tgt Ion: 43 Resp: 190590  
Ion Ratio Lower Upper  
43 100  
58 63.0 49.4 74.0  
57 20.6 17.0 25.4  
100 12.4 10.2 15.2



#49  
Dibromochloromethane  
Concen: 5.955 ug/L  
RT: 8.809 min Scan# 2323  
Delta R.T. -0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion: 129 Resp: 32938  
Ion Ratio Lower Upper  
129 100  
127 75.3 54.5 101.1

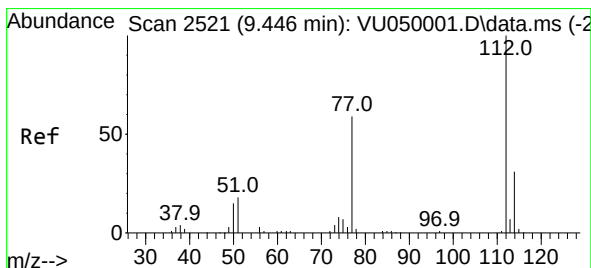
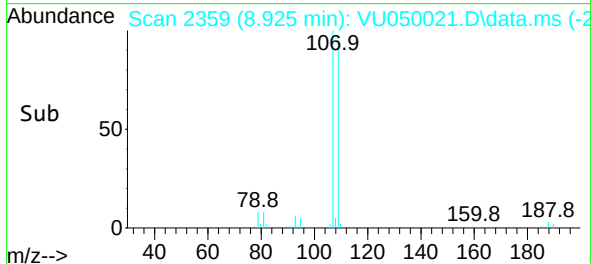
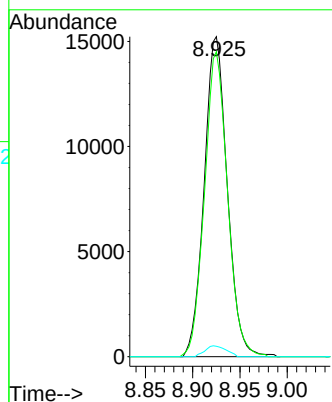
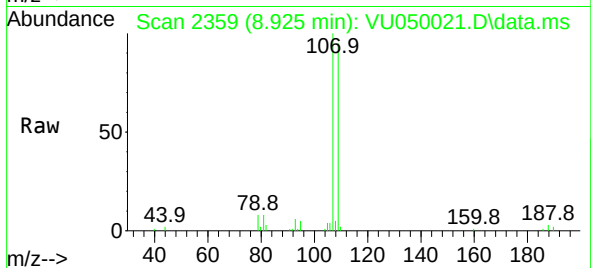




#50  
1,2-Dibromoethane  
Concen: 5.775 ug/L  
RT: 8.925 min Scan# 2359  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

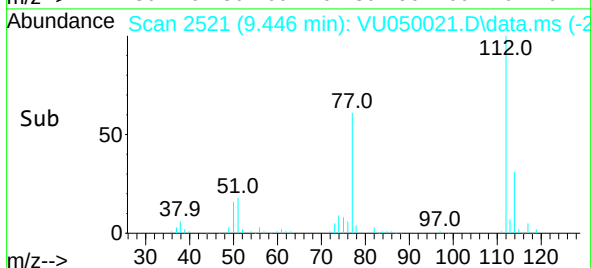
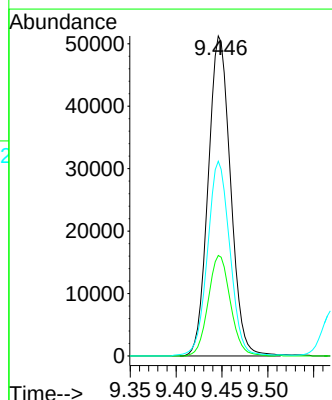
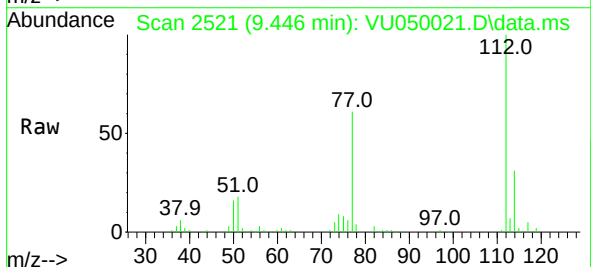
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

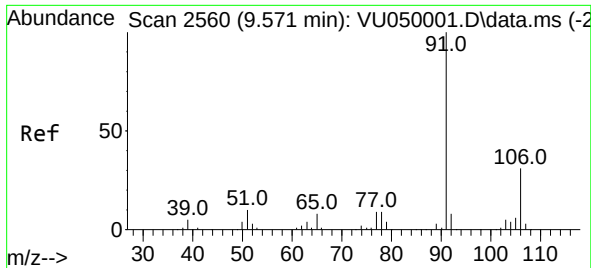
Tgt Ion:107 Resp: 25920  
Ion Ratio Lower Upper  
107 100  
109 95.3 62.7 116.5  
188 3.2 2.4 3.6



#51  
Chlorobenzene  
Concen: 5.482 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion:112 Resp: 86845  
Ion Ratio Lower Upper  
112 100  
114 31.4 22.4 41.6  
77 60.9 48.2 72.4

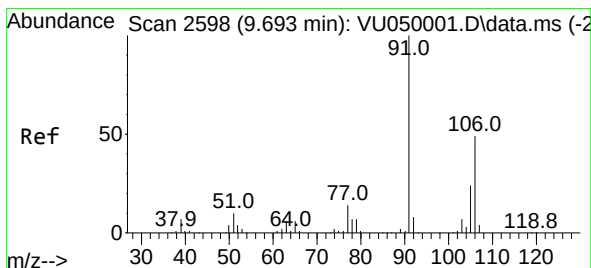
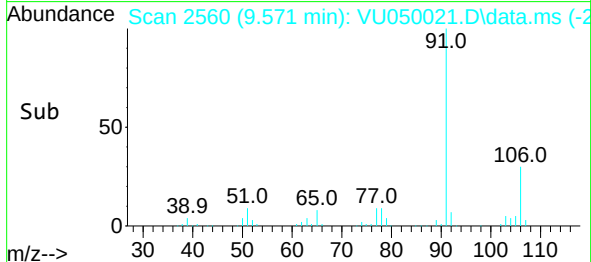
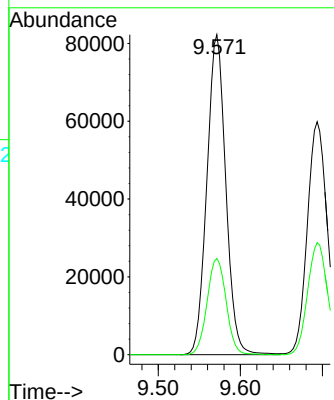
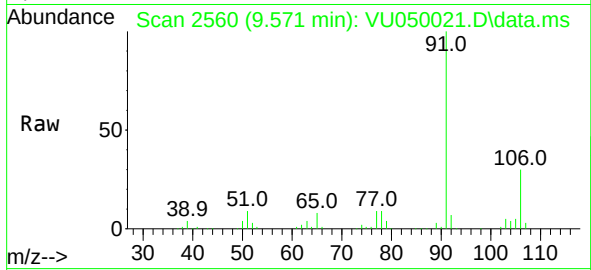




#52  
Ethylbenzene  
Concen: 5.386 ug/L  
RT: 9.571 min Scan# 2560  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

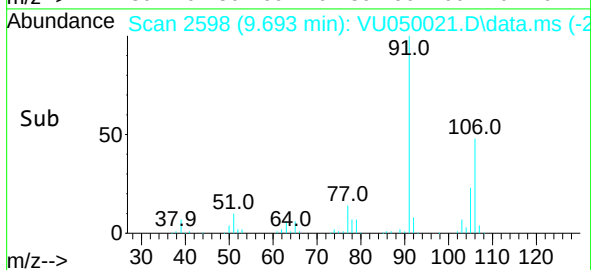
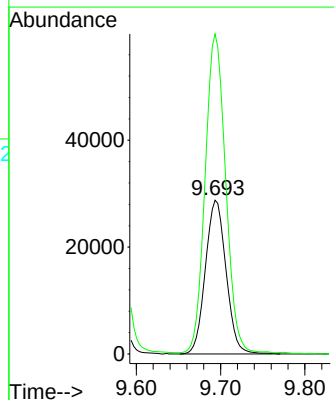
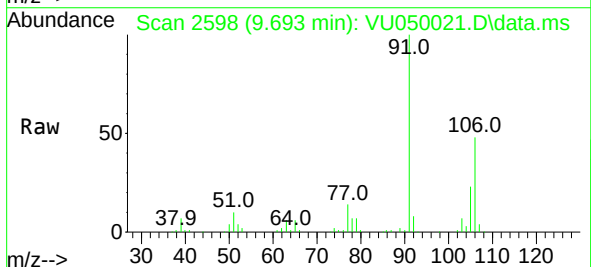
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

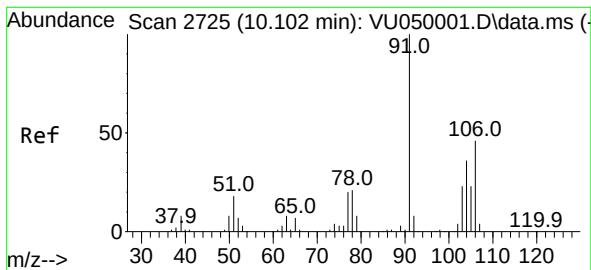
Tgt Ion: 91 Resp: 131677  
Ion Ratio Lower Upper  
91 100  
106 30.0 21.6 40.0



#53  
m,p-Xylene  
Concen: 5.285 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion: 106 Resp: 49201  
Ion Ratio Lower Upper  
106 100  
91 208.0 142.4 264.4





#54

o-Xylene

Concen: 5.578 ug/L

RT: 10.102 min Scan# 2725

Delta R.T. 0.000 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

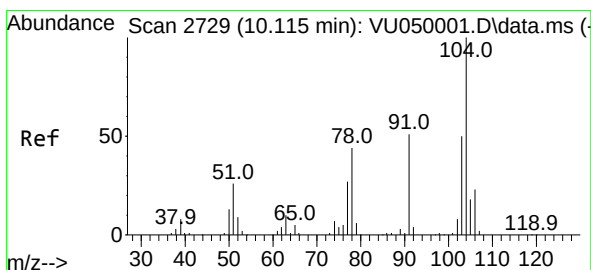
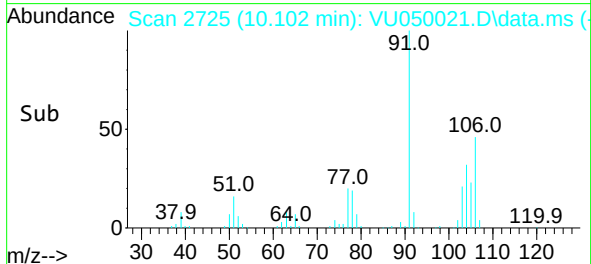
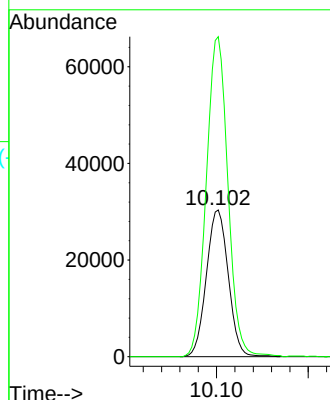
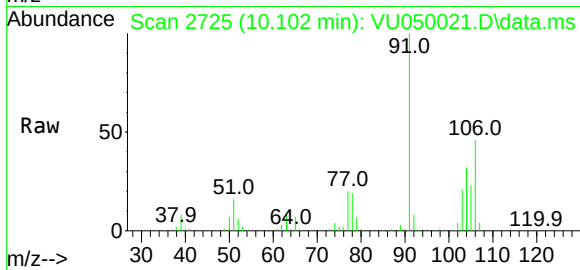
YBEA3MS

Tgt Ion:106 Resp: 50347

Ion Ratio Lower Upper

106 100

91 218.2 148.7 276.1



#55

Styrene

Concen: 4.861 ug/L

RT: 10.115 min Scan# 2729

Delta R.T. 0.000 min

Lab File: VU050021.D

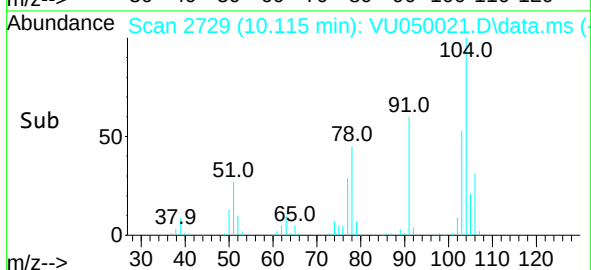
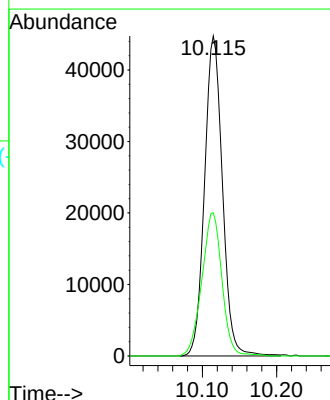
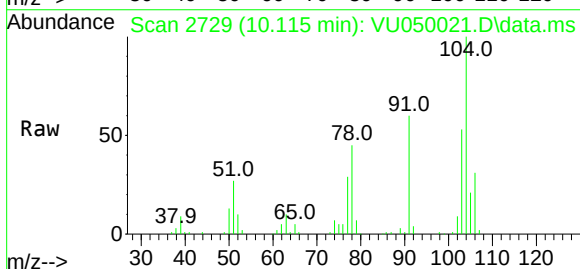
Acq: 29 Jul 2022 06:18

Tgt Ion:104 Resp: 74736

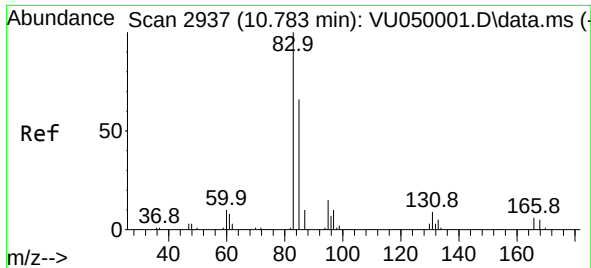
Ion Ratio Lower Upper

104 100

78 44.8 30.9 57.3



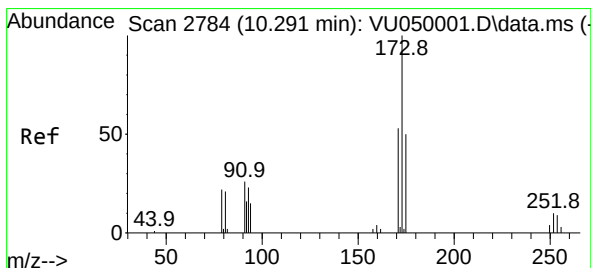
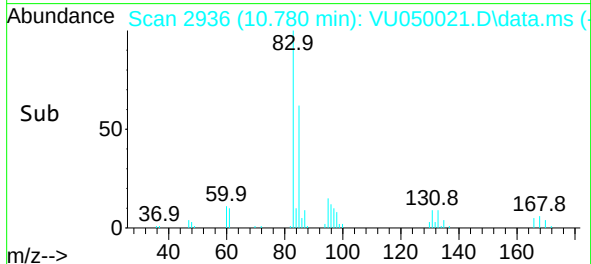
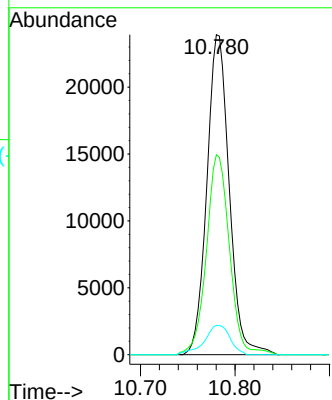
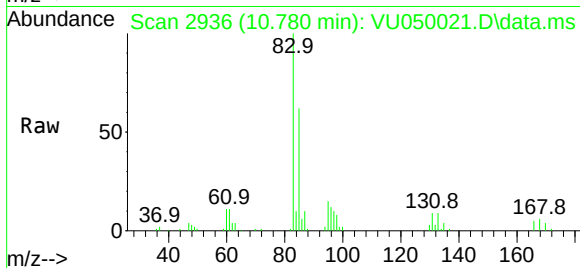




#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.965 ug/L  
RT: 10.780 min Scan# 2937  
Delta R.T. -0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

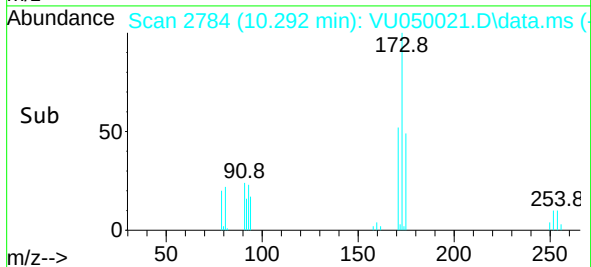
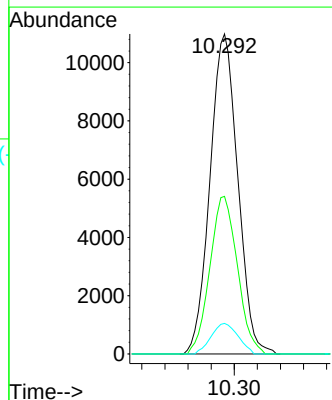
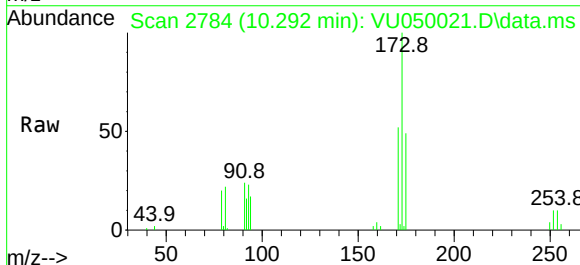
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

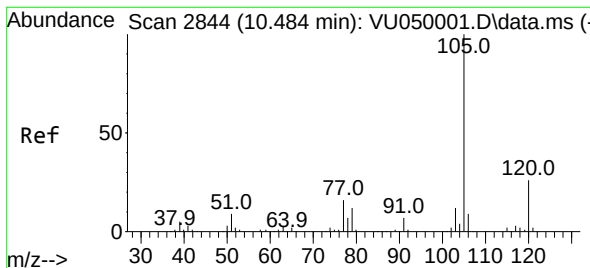
Tgt Ion: 83 Resp: 39244  
Ion Ratio Lower Upper  
83 100  
85 62.5 46.6 86.6  
131 9.2 7.9 11.9



#59  
Bromoform  
Concen: 5.893 ug/L  
RT: 10.292 min Scan# 2784  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion:173 Resp: 18334  
Ion Ratio Lower Upper  
173 100  
175 48.8 39.1 58.7  
254 9.2 7.5 11.3





#60

Isopropylbenzene

Concen: 5.475 ug/L

RT: 10.484 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

YBEA3MS

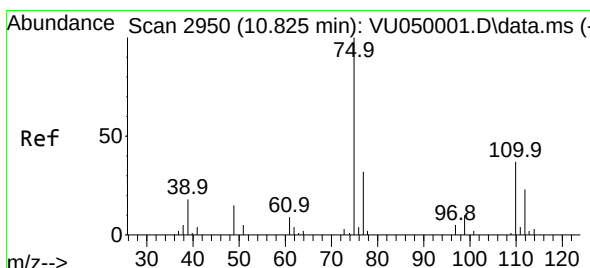
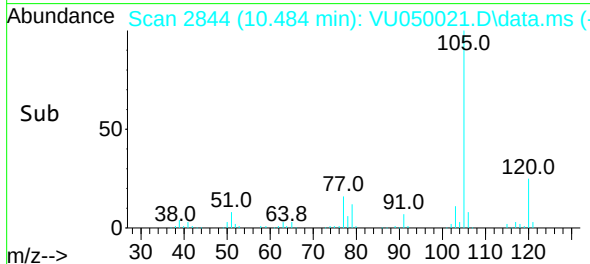
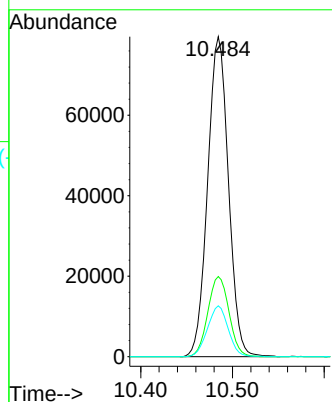
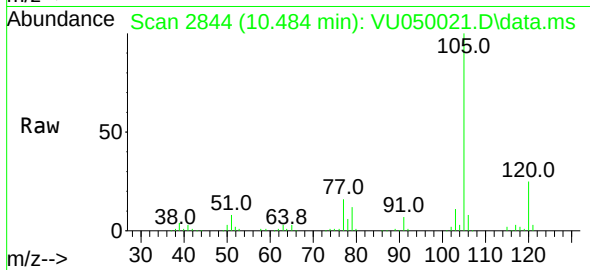
Tgt Ion:105 Resp: 125184

Ion Ratio Lower Upper

105 100

120 25.4 20.5 30.7

77 15.9 12.6 18.8



#61

1,2,3-Trichloropropane

Concen: 5.871 ug/L

RT: 10.822 min Scan# 2949

Delta R.T. -0.003 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

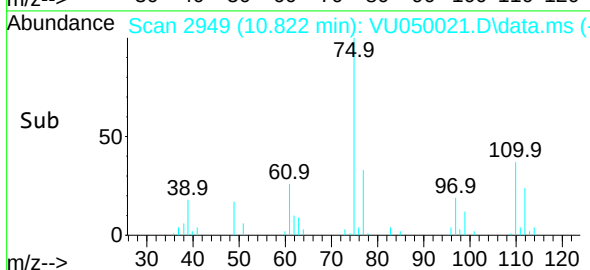
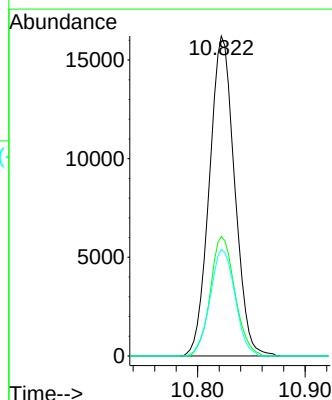
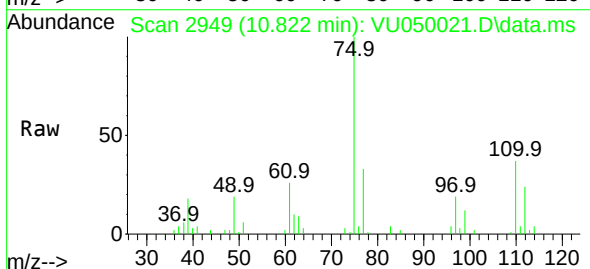
Tgt Ion: 75 Resp: 26392

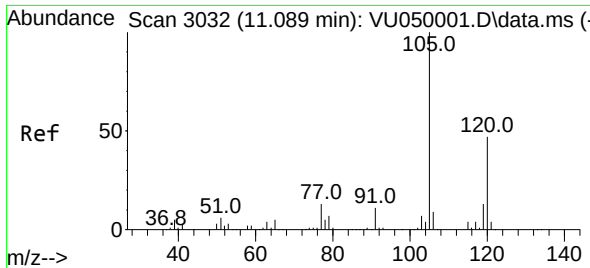
Ion Ratio Lower Upper

75 100

110 36.4 28.1 42.1

77 33.0 24.7 37.1

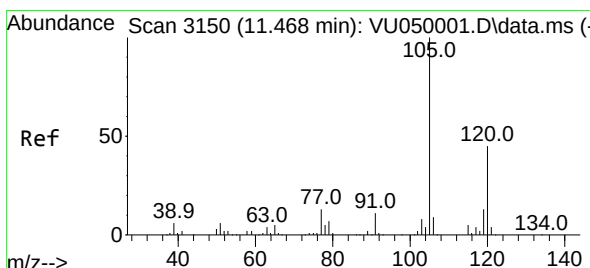
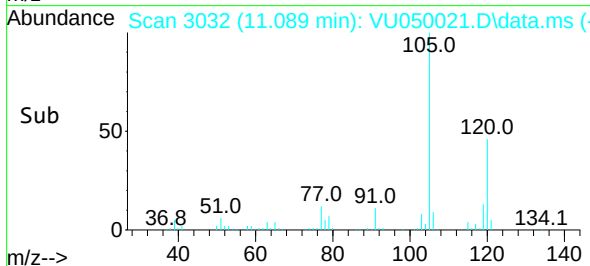
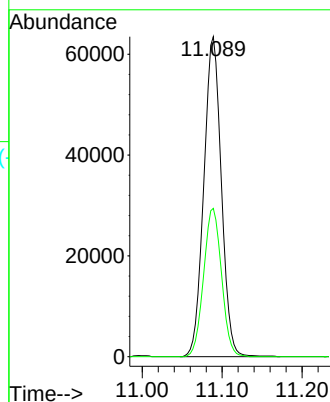
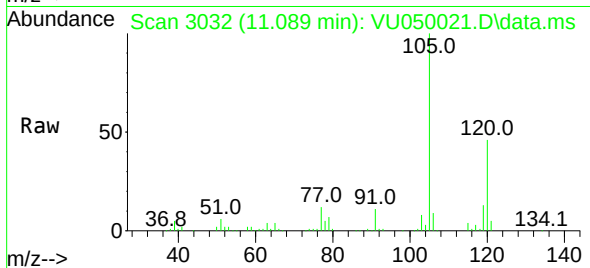




#62  
1,3,5-Trimethylbenzene  
Concen: 5.219 ug/L  
RT: 11.089 min Scan# 3032  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

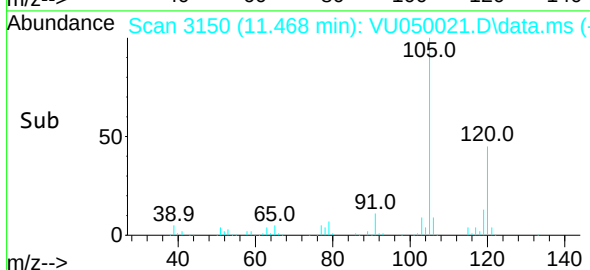
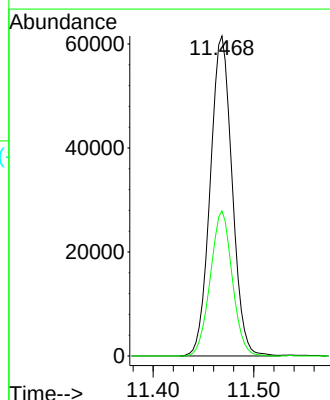
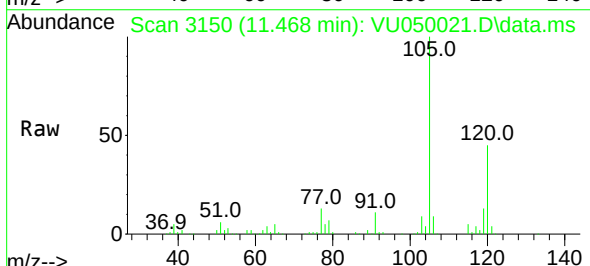
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

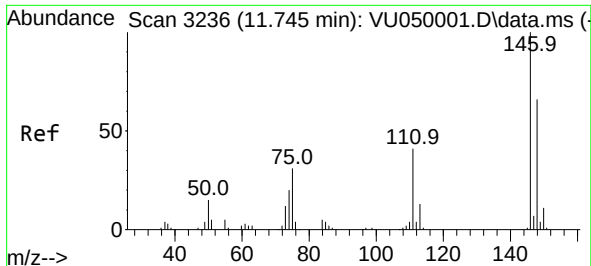
Tgt Ion:105 Resp: 96952  
Ion Ratio Lower Upper  
105 100  
120 47.3 38.2 57.4



#63  
1,2,4-Trimethylbenzene  
Concen: 5.163 ug/L  
RT: 11.468 min Scan# 3150  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion:105 Resp: 92941  
Ion Ratio Lower Upper  
105 100  
120 45.4 35.4 53.2

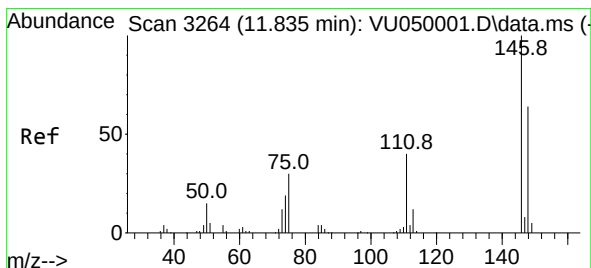
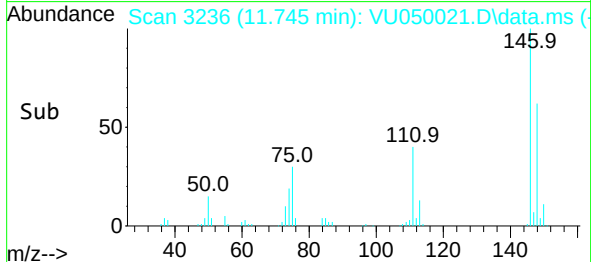
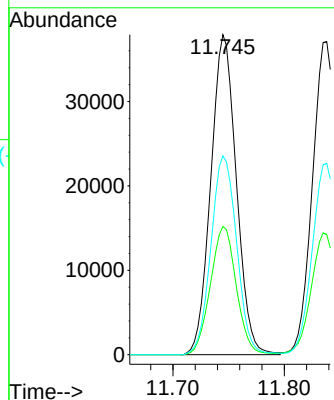
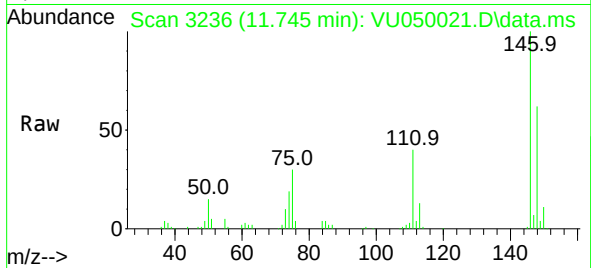




#64  
1,3-Dichlorobenzene  
Concen: 5.521 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

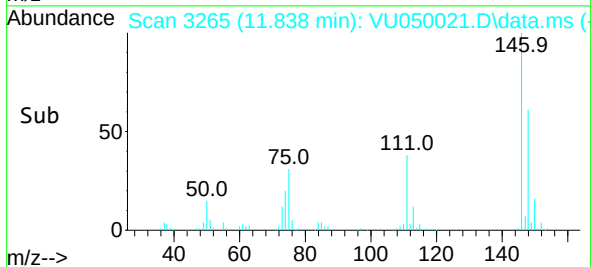
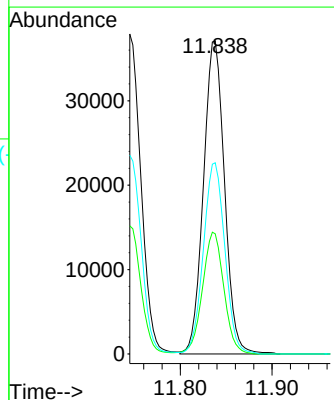
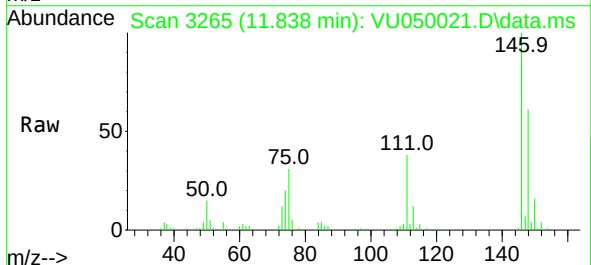
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

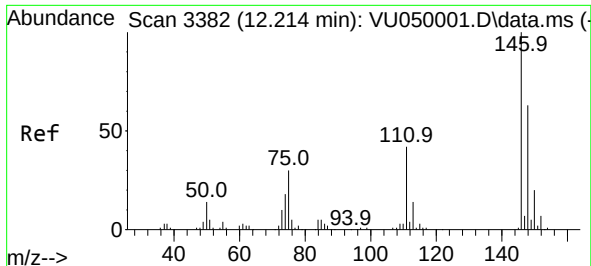
Tgt Ion:146 Resp: 60445  
Ion Ratio Lower Upper  
146 100  
111 40.0 28.9 53.7  
148 62.1 45.9 85.3



#65  
1,4-Dichlorobenzene  
Concen: 5.473 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Tgt Ion:146 Resp: 59289  
Ion Ratio Lower Upper  
146 100  
111 38.4 26.4 49.0  
148 61.1 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 5.643 ug/L

RT: 12.211 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

Instrument :

MSVOA\_U

ClientSampleId :

YBEA3MS

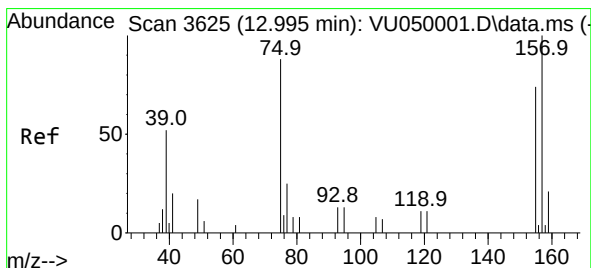
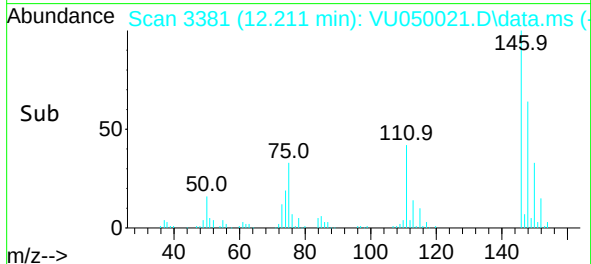
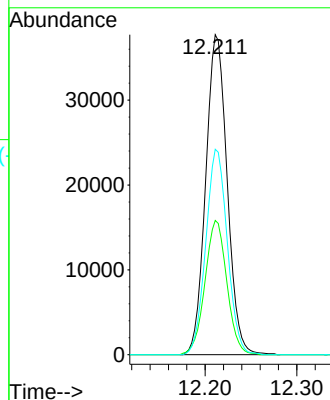
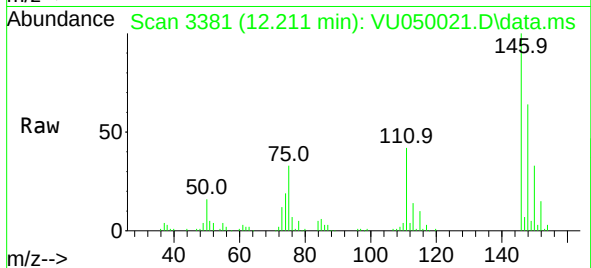
Tgt Ion:146 Resp: 61385

Ion Ratio Lower Upper

146 100

111 41.9 33.4 50.2

148 64.2 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 6.123 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. 0.000 min

Lab File: VU050021.D

Acq: 29 Jul 2022 06:18

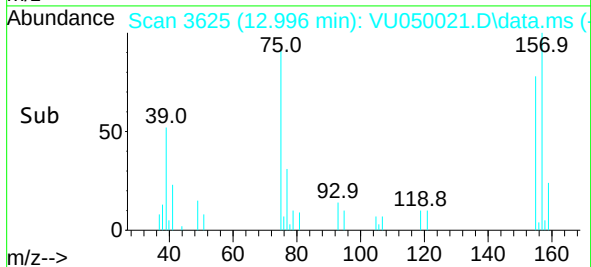
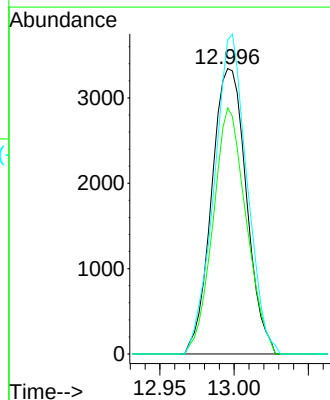
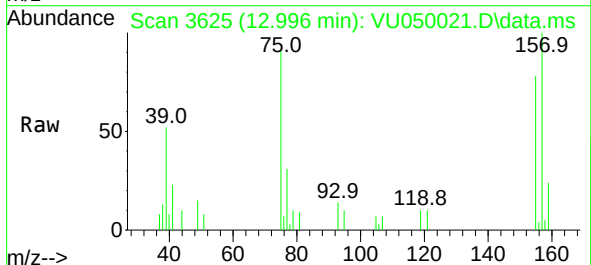
Tgt Ion: 75 Resp: 5437

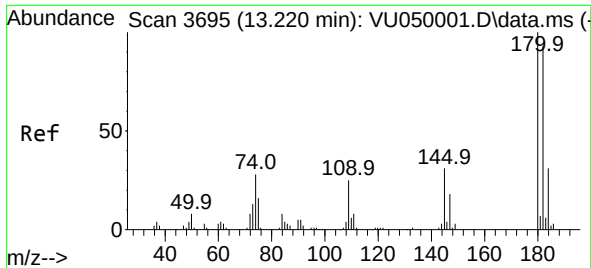
Ion Ratio Lower Upper

75 100

155 86.2 59.4 89.0

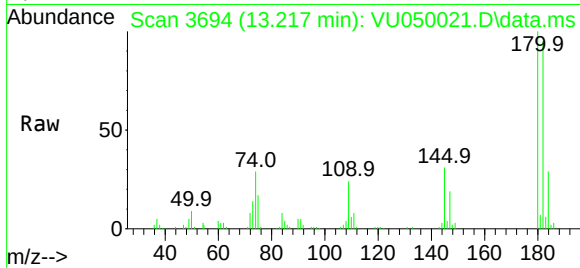
157 110.0 73.8 110.6



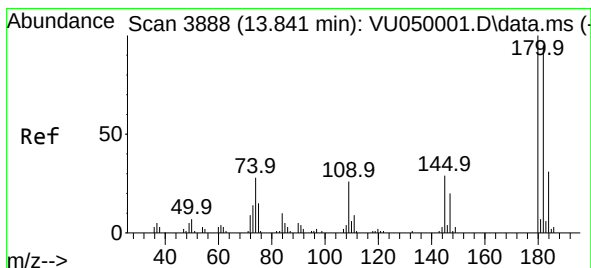
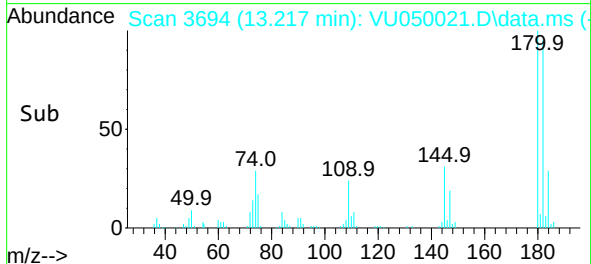
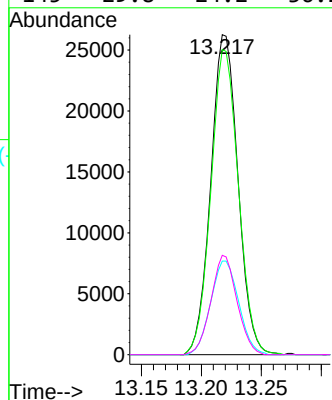


#69  
 1,3,5-Trichlorobenzene  
 Concen: 5.234 ug/L  
 RT: 13.217 min Scan# 3694  
 Delta R.T. -0.003 min  
 Lab File: VU050021.D  
 Acq: 29 Jul 2022 06:18

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBEA3MS

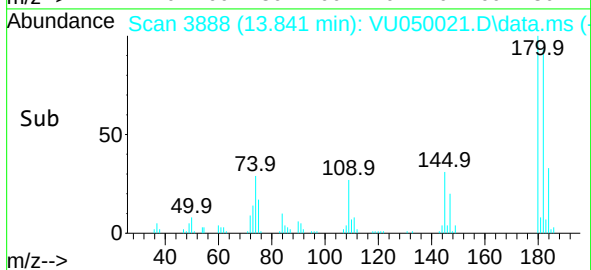
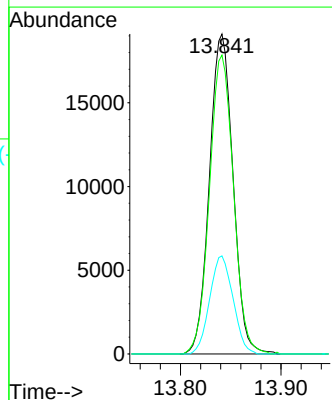
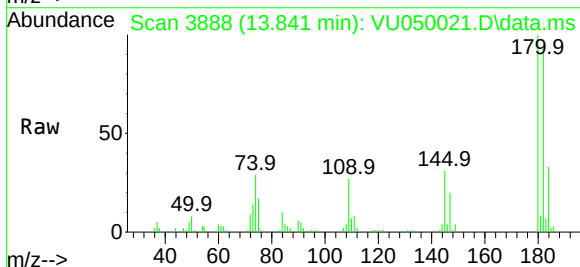


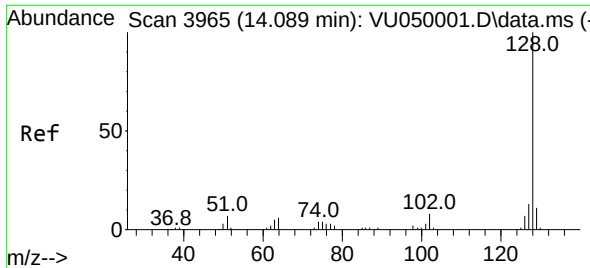
Tgt Ion:180 Resp: 41314  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 77.2 115.8  
 184 30.2 23.9 35.9  
 145 29.8 24.2 36.2



#70  
 1,2,4-trichlorobenzene  
 Concen: 4.951 ug/L  
 RT: 13.841 min Scan# 3888  
 Delta R.T. 0.000 min  
 Lab File: VU050021.D  
 Acq: 29 Jul 2022 06:18

Tgt Ion:180 Resp: 31177  
 Ion Ratio Lower Upper  
 180 100  
 182 94.9 75.8 113.6  
 145 30.3 23.8 35.8

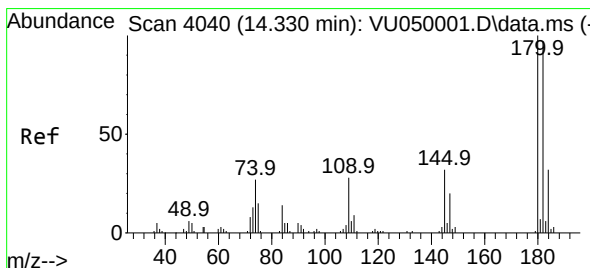
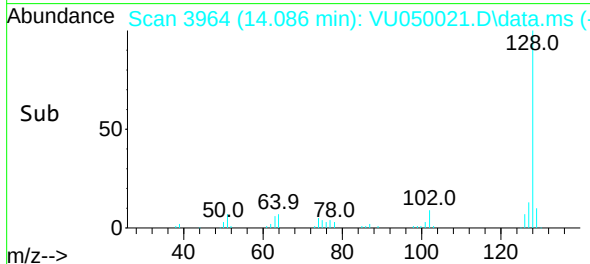
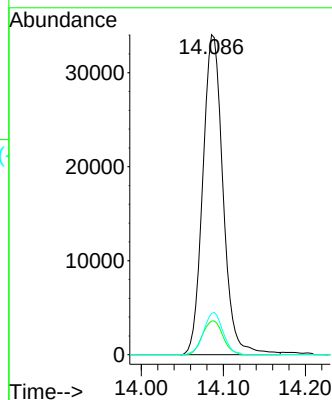
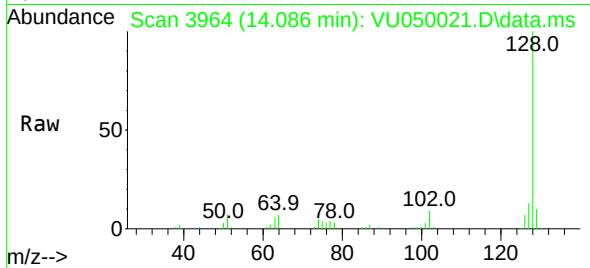




#71  
Naphthalene  
Concen: 4.672 ug/L  
RT: 14.086 min Scan# 3965  
Delta R.T. -0.003 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

Instrument :  
MSVOA\_U  
ClientSampleId :  
YBEA3MS

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 58329     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 129         | 10.6  | 8.5 12.7  |
| 127         | 12.7  | 10.3 15.5 |



#72  
1,2,3-Trichlorobenzene  
Concen: 5.157 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.000 min  
Lab File: VU050021.D  
Acq: 29 Jul 2022 06:18

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 32233      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.7  | 77.0 115.4 |
| 145         | 32.9  | 26.3 39.5  |

