

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122821\  
 Data File : VU046625.D  
 Acq On : 28 Dec 2021 20:25  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 29 01:32:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122121WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 29 01:29:25 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.253  | 114   | 69640    | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.420  | 117   | 71747    | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 41485    | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.604  | 65    | 27389    | 4.993    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 99.800%   |
| 7) Chloroethane-d5            | 1.919  | 69    | 25173    | 5.828    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 116.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.575  | 65    | 13479    | 5.827    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 116.600%  |
| 20) 2-Butanone-d5             | 4.649  | 46    | 105098   | 66.053   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 132.100%# |
| 24) Chloroform-d              | 5.070  | 84    | 66041    | 6.571    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 131.400%# |
| 26) 1,2-Dichloroethane-d4     | 5.706  | 65    | 37114    | 6.459    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 129.200%  |
| 32) Benzene-d6                | 5.732  | 84    | 120620   | 6.031    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 120.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.693  | 67    | 38119    | 6.343    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 126.800%  |
| 41) Toluene-d8                | 7.899  | 98    | 109120   | 6.011    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 120.200%  |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79    | 15257    | 5.489    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 109.800%  |
| 46) 2-Hexanone-d5             | 8.635  | 63    | 93397    | 57.231   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 114.460%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 37966    | 6.155    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 123.200%# |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 40528    | 5.304    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 106.000%  |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.388  | 85    | 48019    | 4.506    | ug/L   | 99        |
| 3) Chloromethane              | 1.523  | 50    | 35847    | 3.906    | ug/L   | 99        |
| 5) Vinyl chloride             | 1.607  | 62    | 38643    | 4.277    | ug/L   | 99        |
| 6) Bromomethane               | 1.864  | 94    | 21586    | 3.969    | ug/L   | 98        |
| 8) Chloroethane               | 1.941  | 64    | 23174    | 4.369    | ug/L   | 96        |
| 9) Trichlorofluoromethane     | 2.144  | 101   | 58099    | 4.916    | ug/L   | 99        |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.587  | 101   | 31993    | 5.318    | ug/L   | 96        |
| 12) 1,1-Dichloroethene        | 2.587  | 96    | 29329    | 4.788    | ug/L   | 83        |
| 13) Acetone                   | 2.671  | 43    | 76718    | 51.428   | ug/L   | 92        |
| 14) Carbon disulfide          | 2.800  | 76    | 72165    | 3.607    | ug/L   | 100       |
| 15) Methyl Acetate            | 2.964  | 43    | 15297    | 5.077    | ug/L   | 92        |
| 16) Methylene chloride        | 3.050  | 84    | 38774    | 5.202    | ug/L   | 93        |
| 17) Methyl tert-butyl Ether   | 3.369  | 73    | 87592    | 4.902    | ug/L   | 99        |
| 18) trans-1,2-Dichloroethene  | 3.359  | 96    | 31289    | 4.788    | ug/L   | 92        |
| 19) 1,1-Dichloroethane        | 3.877  | 63    | 64409    | 5.350    | ug/L   | 99        |
| 21) 2-Butanone                | 4.726  | 43    | 120635   | 53.301   | ug/L   | 97        |
| 22) cis-1,2-Dichloroethene    | 4.674  | 96    | 36001    | 5.040    | ug/L   | 98        |
| 23) Bromochloromethane        | 4.983  | 128   | 17904    | 5.036    | ug/L   | 86        |
| 25) Chloroform                | 5.092  | 83    | 69863    | 5.372    | ug/L   | 98        |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

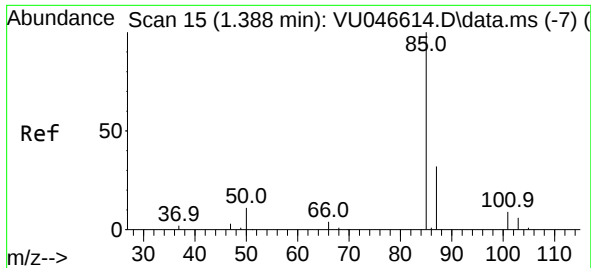
Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 29 01:32:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122121WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 29 01:29:25 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 45699    | 4.922  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 5.320  | 97   | 59213    | 4.991  | ug/L   | 99       |
| 30) Cyclohexane               | 5.391  | 56   | 39671    | 4.042  | ug/L   | 95       |
| 31) Carbon tetrachloride      | 5.529  | 117  | 51088    | 5.132  | ug/L   | 99       |
| 33) Benzene                   | 5.777  | 78   | 135831   | 4.765  | ug/L   | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 33641    | 4.477  | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.767  | 83   | 44263    | 4.178  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 37793    | 5.197  | ug/L   | 98       |
| 38) Bromodichloromethane      | 7.108  | 83   | 54360    | 5.401  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 54236    | 4.927  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 276948   | 50.738 | ug/L   | 97       |
| 42) Toluene                   | 7.970  | 91   | 146487   | 5.006  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 50984    | 4.998  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 31227    | 4.980  | ug/L   | 97       |
| 47) Tetrachloroethene         | 8.555  | 164  | 25280    | 4.754  | ug/L   | 97       |
| 48) 2-Hexanone                | 8.687  | 43   | 207360   | 50.868 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.812  | 129  | 39989    | 5.528  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 29773    | 4.918  | ug/L # | 99       |
| 51) Chlorobenzene             | 9.449  | 112  | 94782    | 5.068  | ug/L   | 97       |
| 52) Ethylbenzene              | 9.571  | 91   | 150702   | 4.976  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.697  | 106  | 59760    | 5.150  | ug/L   | 99       |
| 54) o-Xylene                  | 10.102 | 106  | 59044    | 5.296  | ug/L   | 99       |
| 55) Styrene                   | 10.115 | 104  | 108631   | 5.617  | ug/L   | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 43410    | 5.297  | ug/L   | 94       |
| 59) Bromoform                 | 10.291 | 173  | 24145    | 5.038  | ug/L   | 98       |
| 60) Isopropylbenzene          | 10.487 | 105  | 153807   | 4.807  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.825 | 75   | 31369    | 4.553  | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 124389   | 4.675  | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 130257   | 4.861  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 78891    | 5.073  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 79765    | 5.010  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 77302    | 4.956  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.995 | 75   | 8108     | 5.084  | ug/L   | 94       |
| 69) 1,3,5-Trichlorobenzene    | 13.220 | 180  | 59483    | 5.054  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 49653    | 4.980  | ug/L   | 99       |
| 71) Naphthalene               | 14.089 | 128  | 102294   | 4.620  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 51241    | 5.192  | ug/L   | 99       |

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

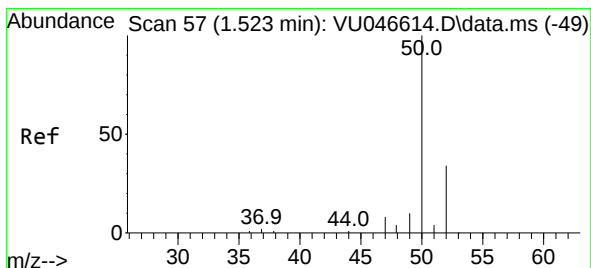
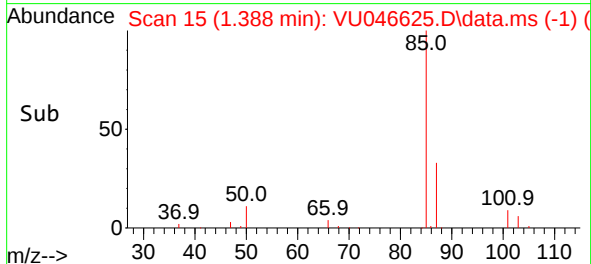
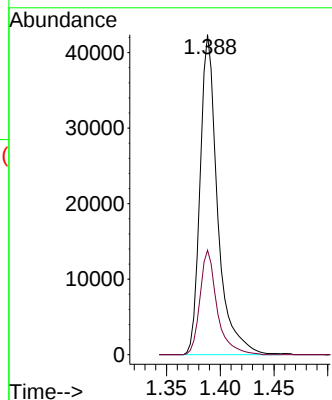
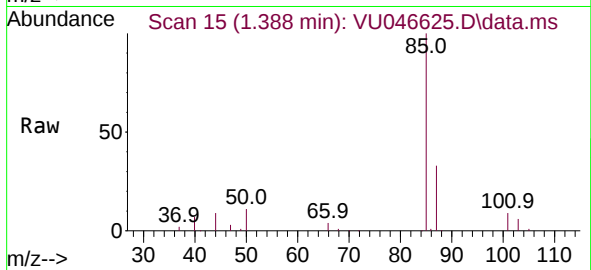




#2  
Dichlorodifluoromethane  
Concen: 4.506 ug/L  
RT: 1.388 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

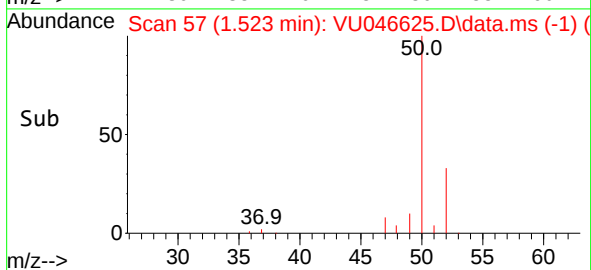
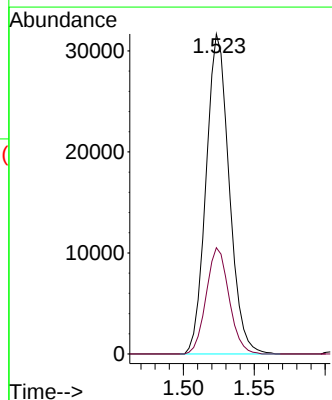
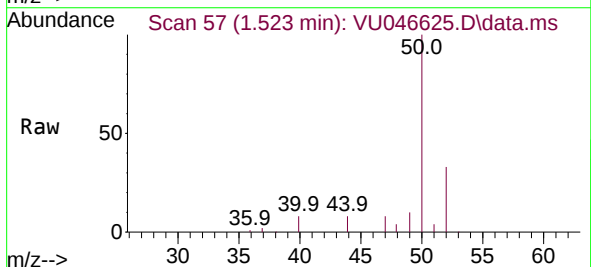
Instrument :  
MSVOA\_U  
ClientSampleId :

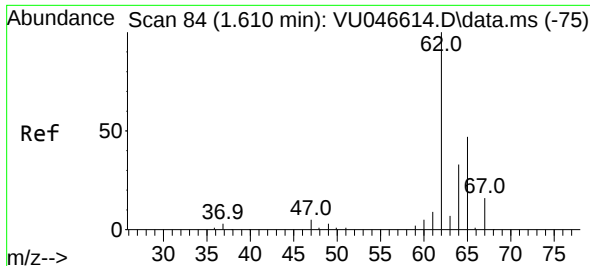
Tgt Ion: 85 Resp: 48019  
Ion Ratio Lower Upper  
85 100  
87 31.8 25.8 38.6



#3  
Chloromethane  
Concen: 3.906 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

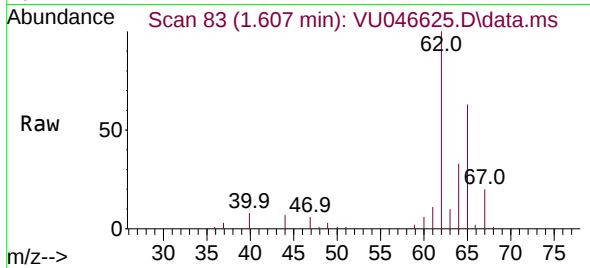
Tgt Ion: 50 Resp: 35847  
Ion Ratio Lower Upper  
50 100  
52 33.2 23.0 42.8



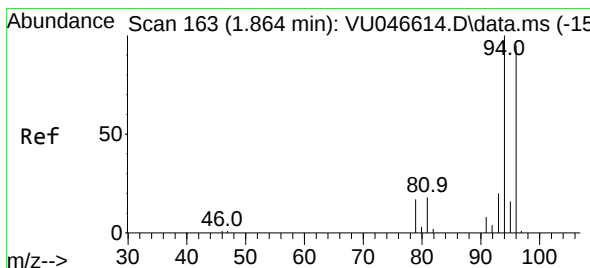
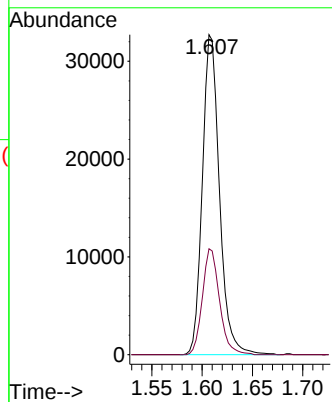
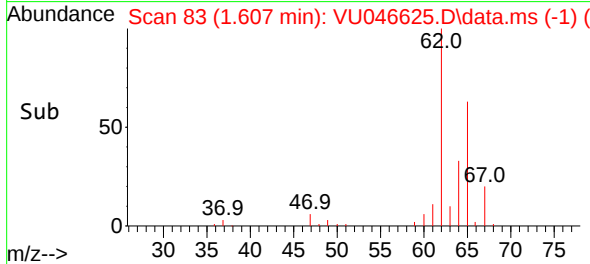


#5  
 Vinyl chloride  
 Concen: 4.277 ug/L  
 RT: 1.607 min Scan# 84  
 Delta R.T. -0.003 min  
 Lab File: VU046625.D  
 Acq: 28 Dec 2021 20:25

Instrument :  
 MSVOA\_U  
 ClientSampleId :

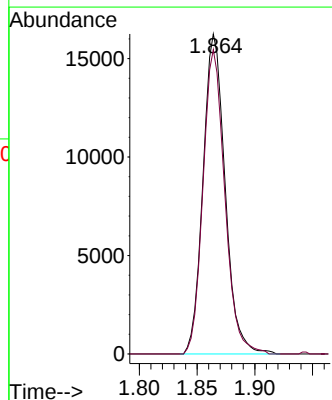
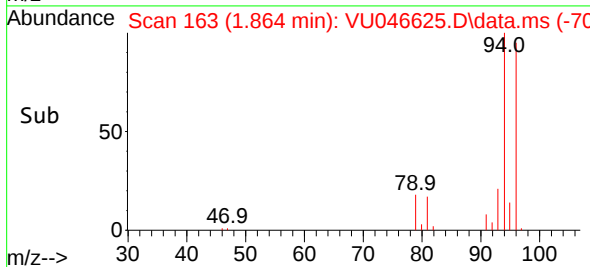
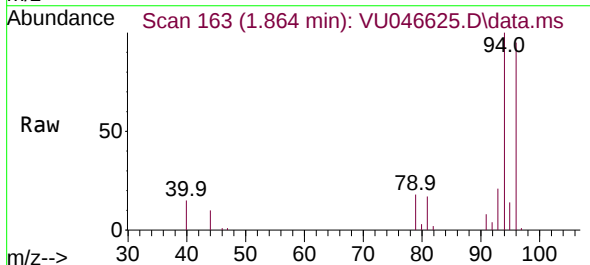


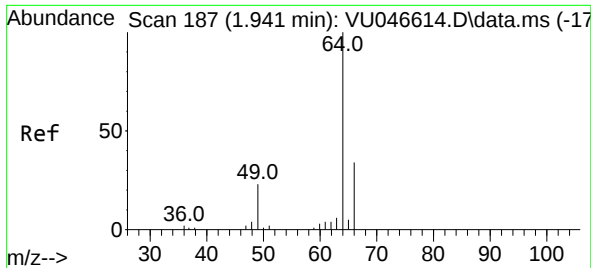
Tgt Ion: 62 Resp: 38643  
 Ion Ratio Lower Upper  
 62 100  
 64 33.1 22.9 42.5



#6  
 Bromomethane  
 Concen: 3.969 ug/L  
 RT: 1.864 min Scan# 163  
 Delta R.T. -0.000 min  
 Lab File: VU046625.D  
 Acq: 28 Dec 2021 20:25

Tgt Ion: 94 Resp: 21586  
 Ion Ratio Lower Upper  
 94 100  
 96 95.1 65.5 121.6

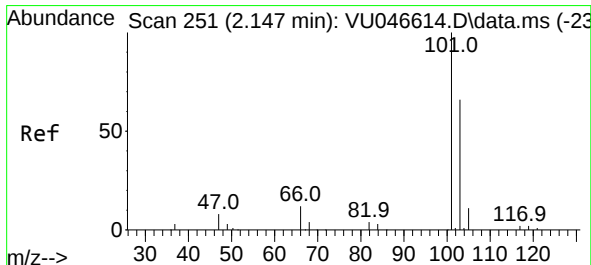
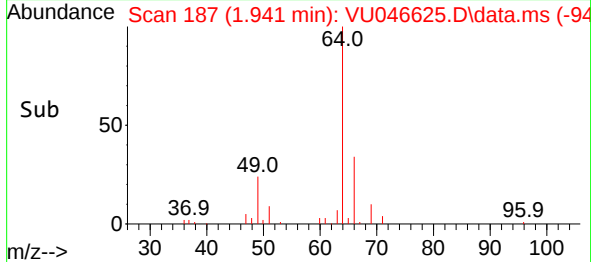
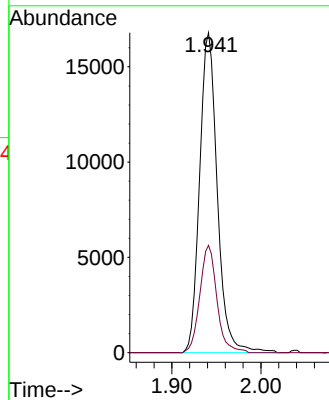
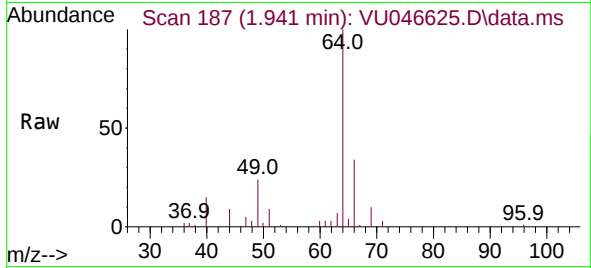




#8  
Chloroethane  
Concen: 4.369 ug/L  
RT: 1.941 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

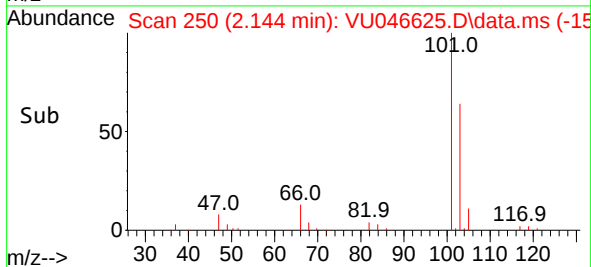
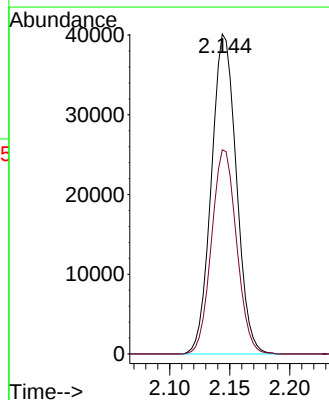
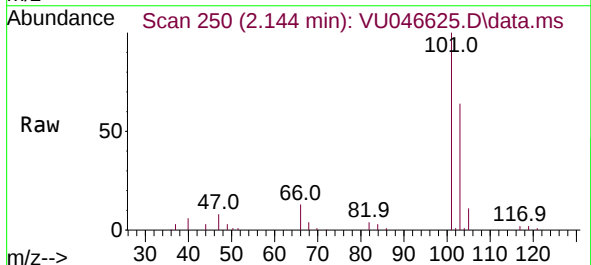
Instrument :  
MSVOA\_U  
ClientSampleId :

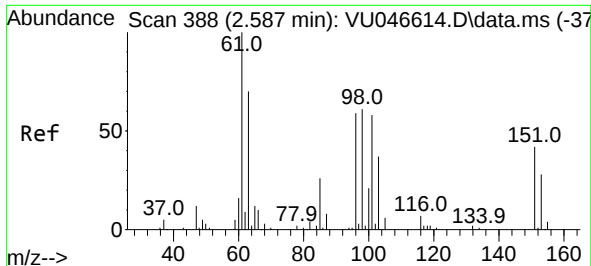
Tgt Ion: 64 Resp: 23174  
Ion Ratio Lower Upper  
64 100  
66 33.6 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 4.916 ug/L  
RT: 2.144 min Scan# 250  
Delta R.T. -0.003 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion:101 Resp: 58099  
Ion Ratio Lower Upper  
101 100  
103 64.0 51.5 77.3

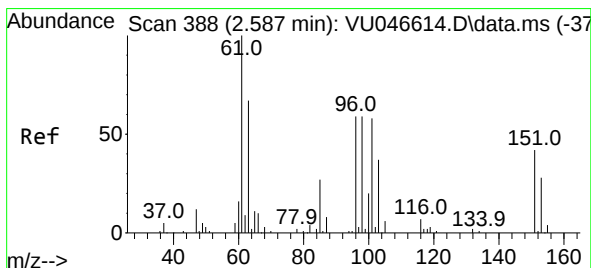
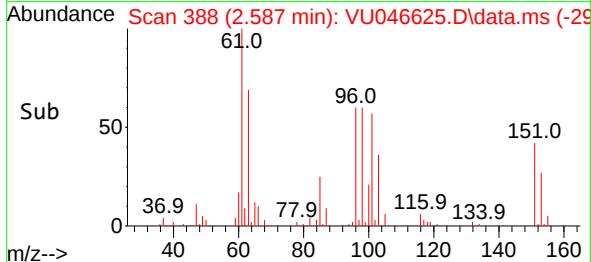
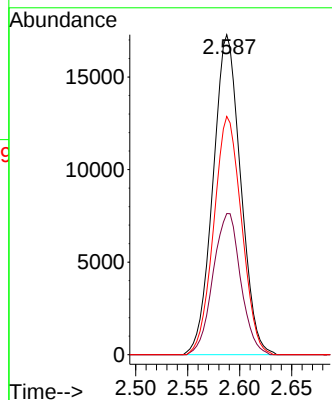
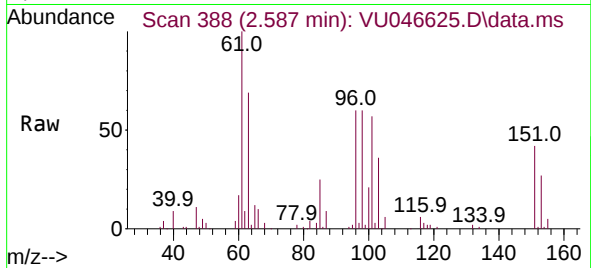




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.318 ug/L  
 RT: 2.587 min Scan# 388  
 Delta R.T. -0.000 min  
 Lab File: VU046625.D  
 Acq: 28 Dec 2021 20:25

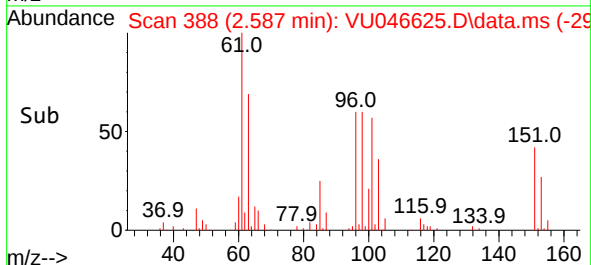
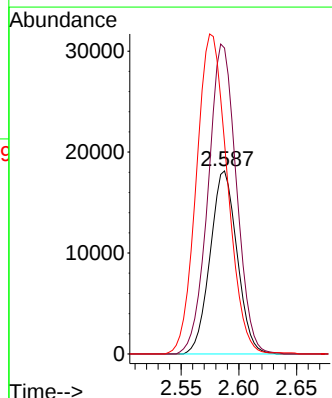
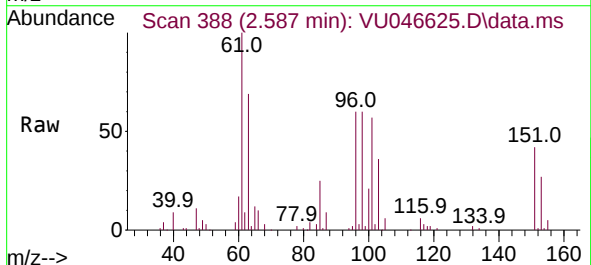
Instrument :  
 MSVOA\_U  
 ClientSampleId :

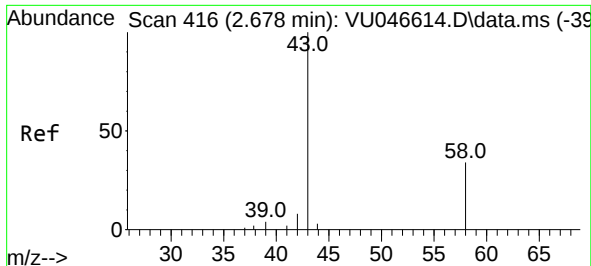
Tgt Ion:101 Resp: 31993  
 Ion Ratio Lower Upper  
 101 100  
 85 44.1 34.6 51.8  
 151 75.0 56.1 84.1



#12  
 1,1-Dichloroethene  
 Concen: 4.788 ug/L  
 RT: 2.587 min Scan# 388  
 Delta R.T. -0.000 min  
 Lab File: VU046625.D  
 Acq: 28 Dec 2021 20:25

Tgt Ion: 96 Resp: 29329  
 Ion Ratio Lower Upper  
 96 100  
 61 167.2 124.7 231.5  
 63 115.5 105.2 195.4





#13

Acetone

Concen: 51.428 ug/L

RT: 2.671 min Scan# 41

Delta R.T. -0.006 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

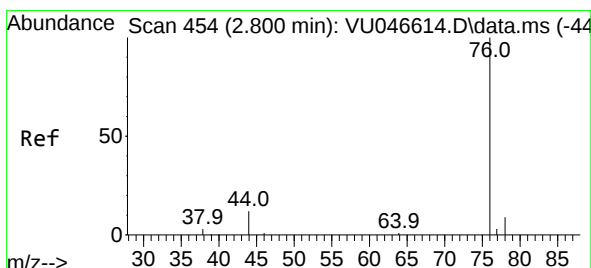
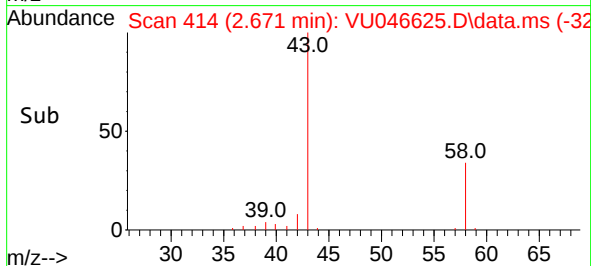
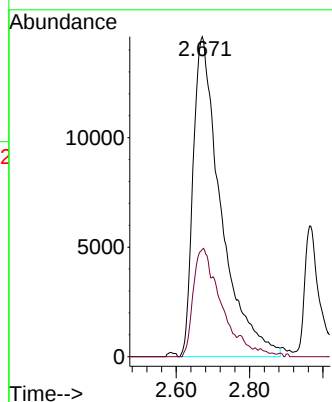
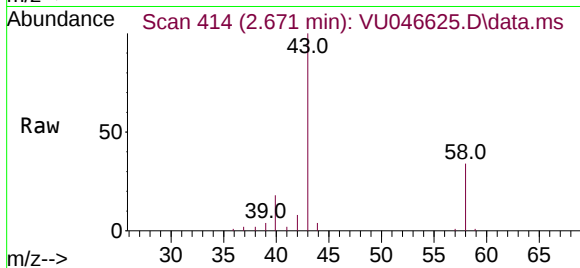
ClientSampleId :

Tgt Ion: 43 Resp: 76718

Ion Ratio Lower Upper

43 100

58 31.1 0.0 71.6



#14

Carbon disulfide

Concen: 3.607 ug/L

RT: 2.800 min Scan# 454

Delta R.T. -0.000 min

Lab File: VU046625.D

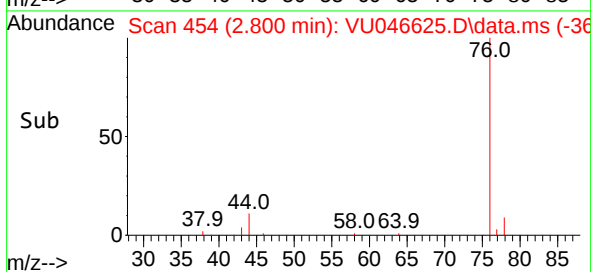
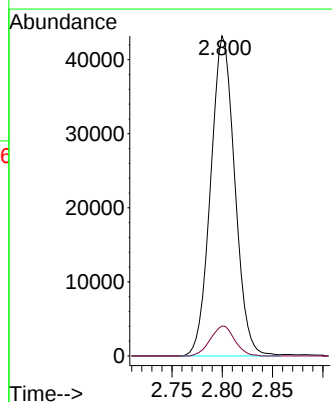
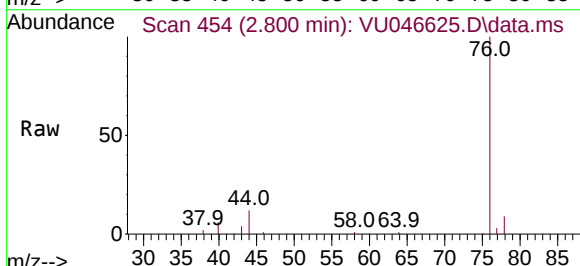
Acq: 28 Dec 2021 20:25

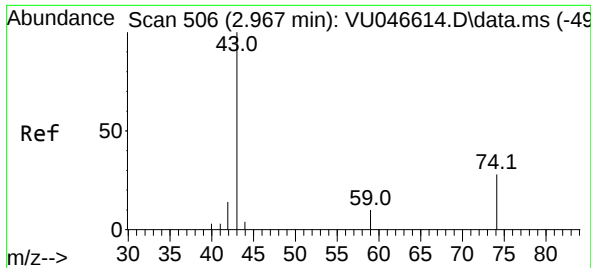
Tgt Ion: 76 Resp: 72165

Ion Ratio Lower Upper

76 100

78 9.4 7.5 11.3

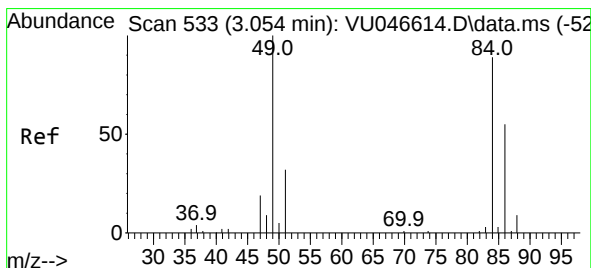
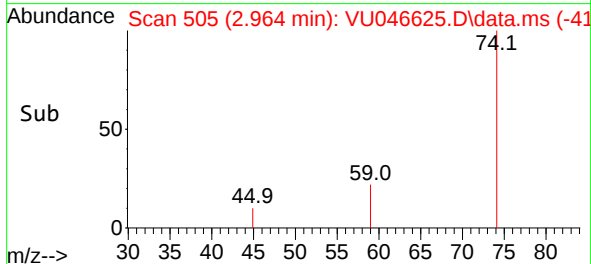
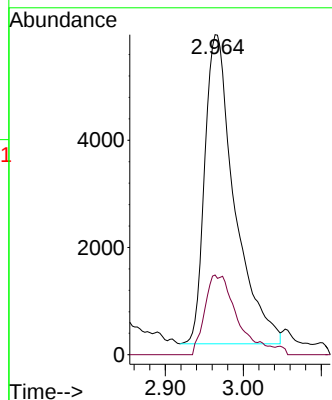
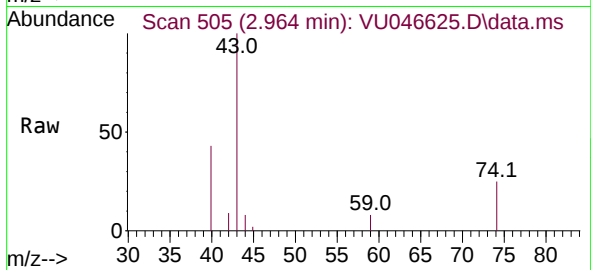




#15  
Methyl Acetate  
Concen: 5.077 ug/L  
RT: 2.964 min Scan# 506  
Delta R.T. -0.003 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

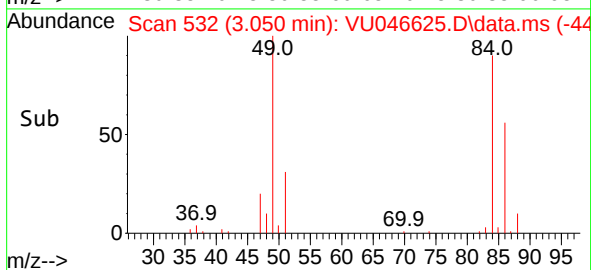
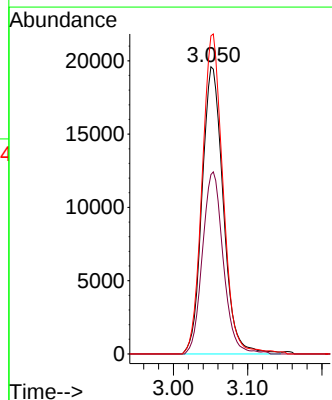
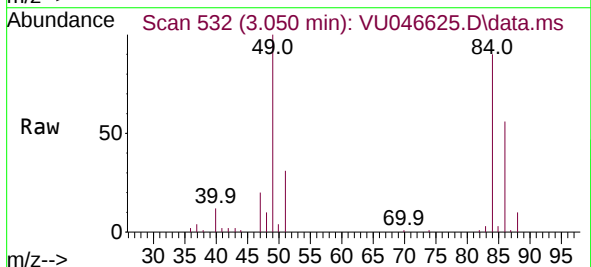
Instrument :  
MSVOA\_U  
ClientSampleId :

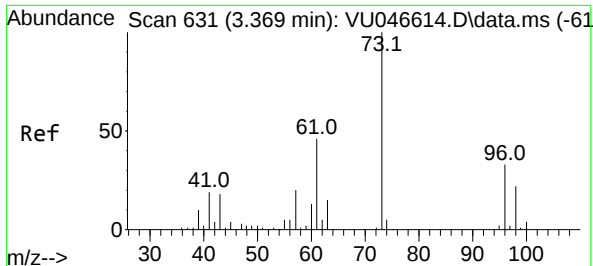
Tgt Ion: 43 Resp: 15297  
Ion Ratio Lower Upper  
43 100  
74 28.1 19.1 28.7



#16  
Methylene chloride  
Concen: 5.202 ug/L  
RT: 3.050 min Scan# 532  
Delta R.T. -0.003 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion: 84 Resp: 38774  
Ion Ratio Lower Upper  
84 100  
86 62.5 45.8 85.0  
49 110.7 84.5 156.9





#17

Methyl tert-butyl Ether

Concen: 4.902 ug/L

RT: 3.369 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

ClientSampleId :

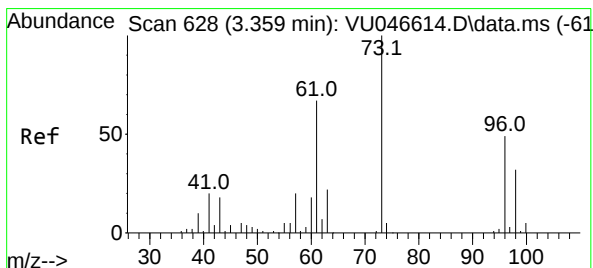
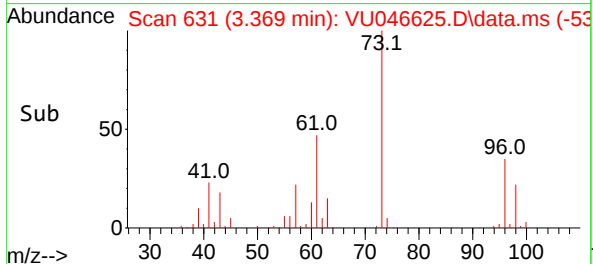
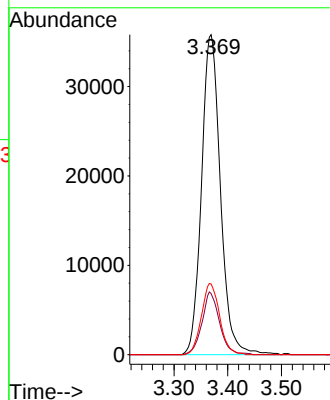
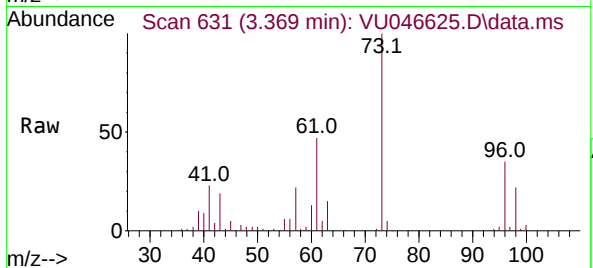
Tgt Ion: 73 Resp: 87592

Ion Ratio Lower Upper

73 100

43 18.2 14.8 22.2

57 21.4 17.4 26.0



#18

trans-1,2-Dichloroethene

Concen: 4.788 ug/L

RT: 3.359 min Scan# 628

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

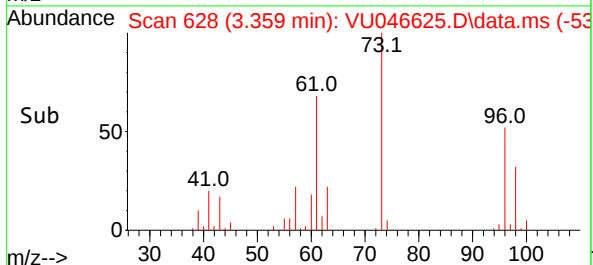
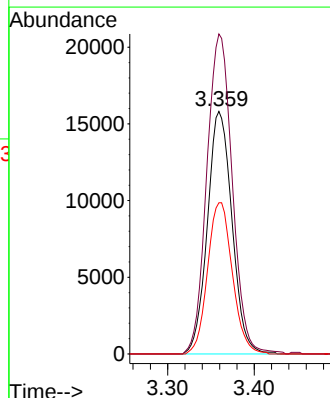
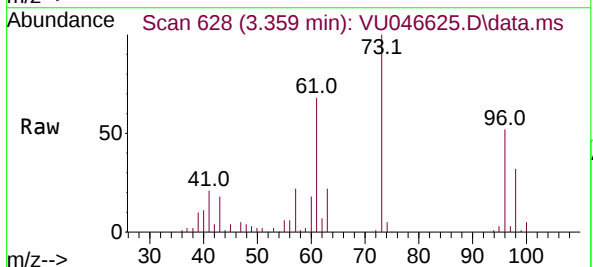
Tgt Ion: 96 Resp: 31289

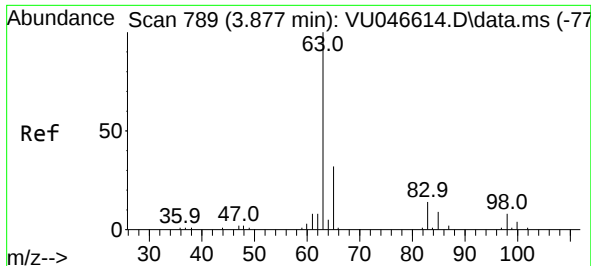
Ion Ratio Lower Upper

96 100

61 131.9 100.8 187.2

98 62.3 45.1 83.7

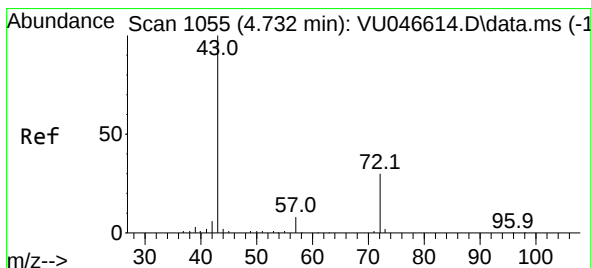
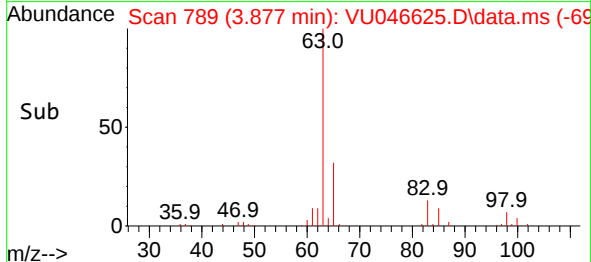
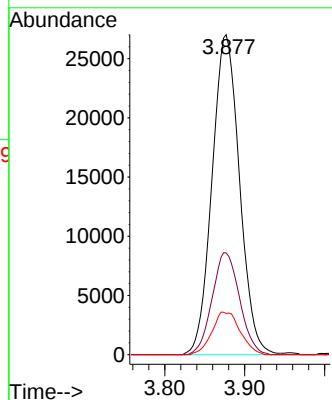
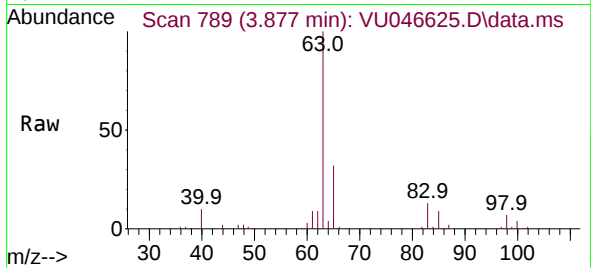




#19  
1,1-Dichloroethane  
Concen: 5.350 ug/L  
RT: 3.877 min Scan# 789  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

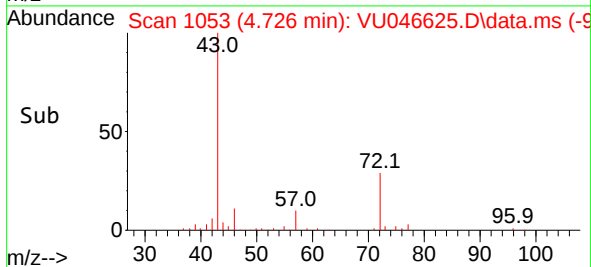
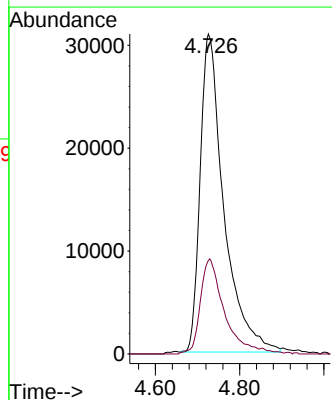
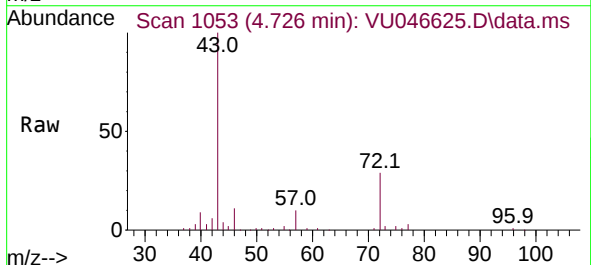
Instrument :  
MSVOA\_U  
ClientSampleId :

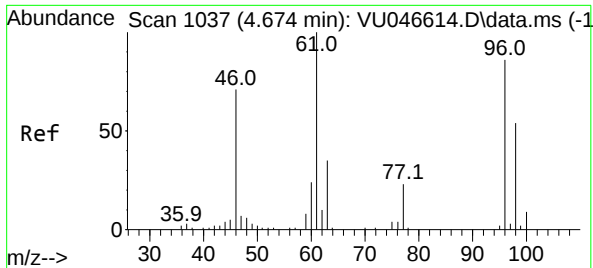
Tgt Ion: 63 Resp: 64409  
Ion Ratio Lower Upper  
63 100  
65 31.8 22.3 41.5  
83 12.9 9.6 17.8



#21  
2-Butanone  
Concen: 53.301 ug/L  
RT: 4.726 min Scan# 1053  
Delta R.T. -0.006 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

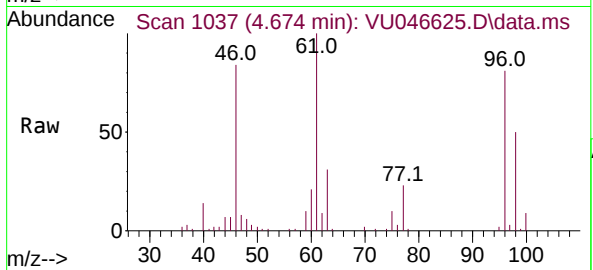
Tgt Ion: 43 Resp: 120635  
Ion Ratio Lower Upper  
43 100  
72 29.6 14.1 42.3



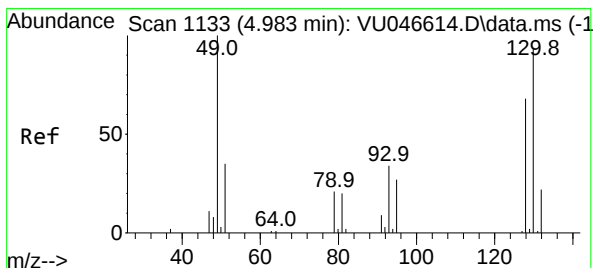
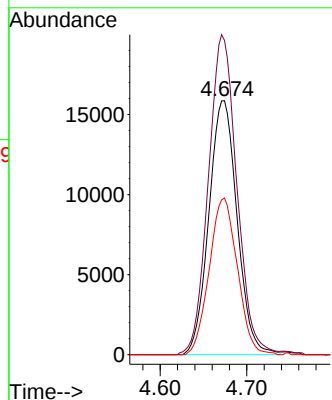
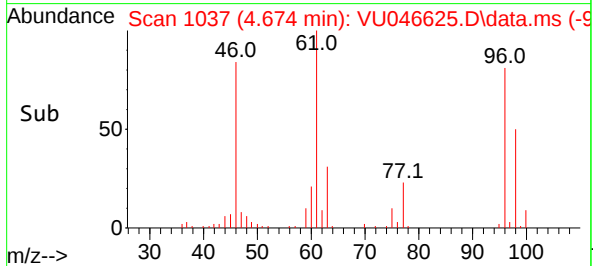


#22  
cis-1,2-Dichloroethene  
Concen: 5.040 ug/L  
RT: 4.674 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Instrument :  
MSVOA\_U  
ClientSampleId :

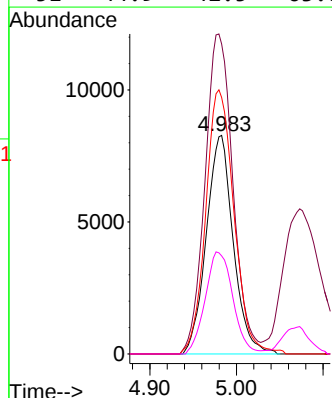
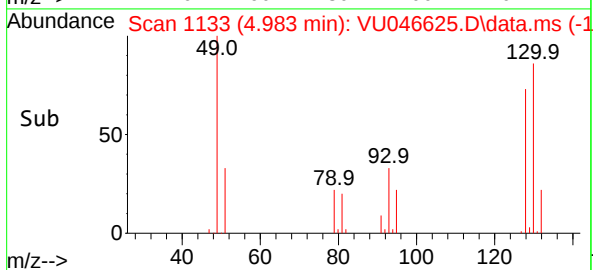
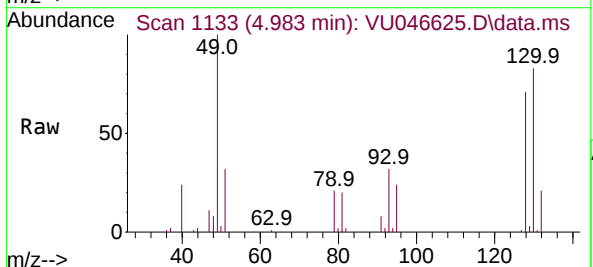


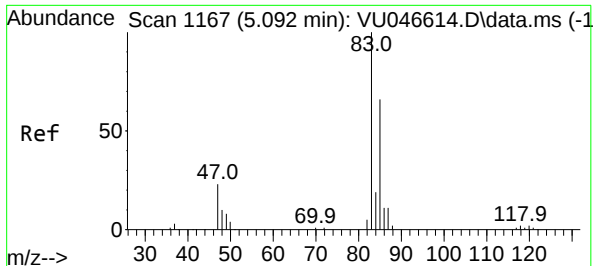
Tgt Ion: 96 Resp: 36001  
Ion Ratio Lower Upper  
96 100  
61 123.7 88.5 164.3  
98 61.7 44.4 82.5



#23  
Bromochloromethane  
Concen: 5.036 ug/L  
RT: 4.983 min Scan# 1133  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion: 128 Resp: 17904  
Ion Ratio Lower Upper  
128 100  
49 141.8 117.0 217.2  
130 117.4 88.2 163.8  
51 44.9 42.5 63.7





#25

Chloroform

Concen: 5.372 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

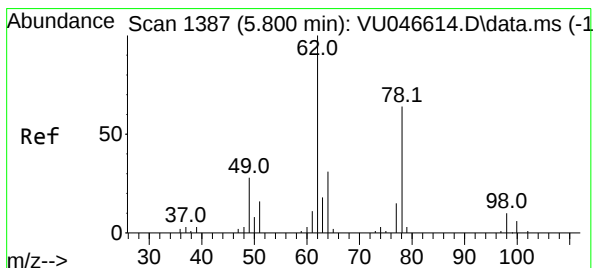
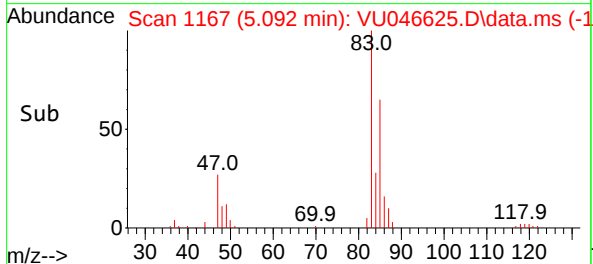
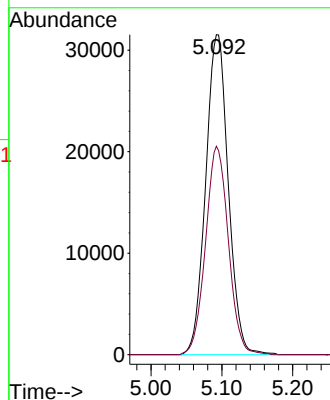
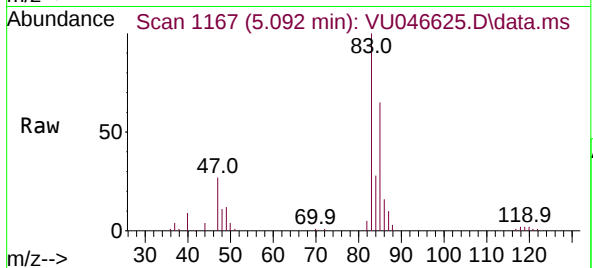
ClientSampleId :

Tgt Ion: 83 Resp: 69863

Ion Ratio Lower Upper

83 100

85 65.2 46.9 87.1



#27

1,2-Dichloroethane

Concen: 4.922 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VU046625.D

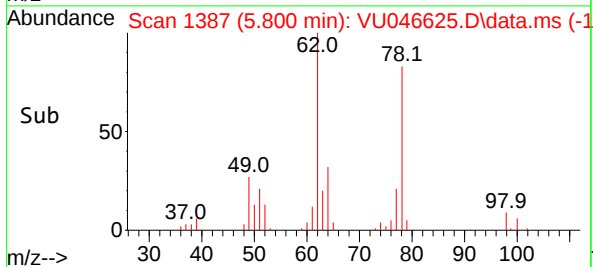
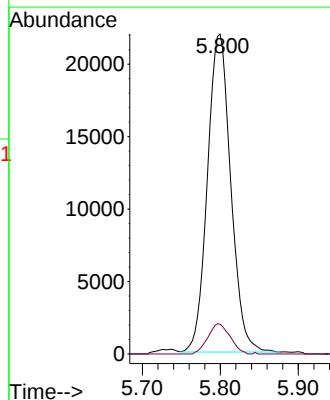
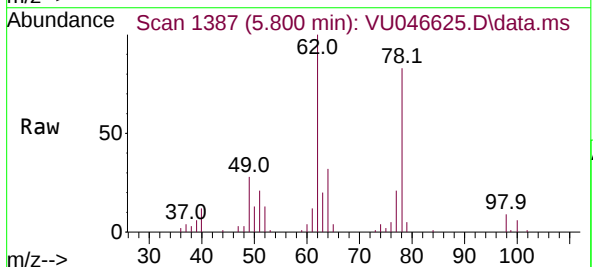
Acq: 28 Dec 2021 20:25

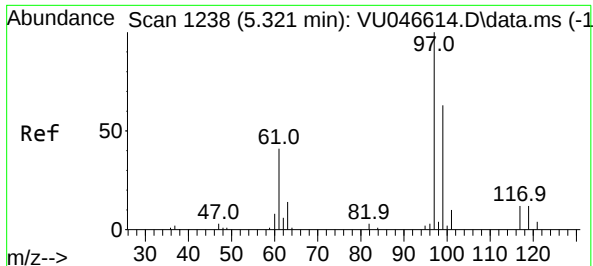
Tgt Ion: 62 Resp: 45699

Ion Ratio Lower Upper

62 100

98 9.3 7.8 11.8

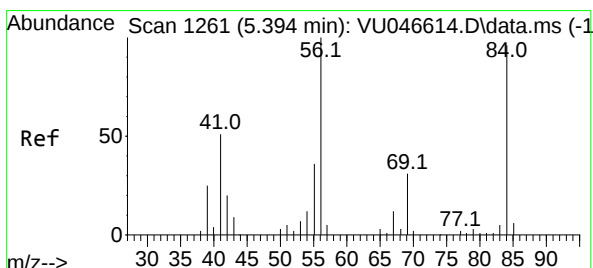
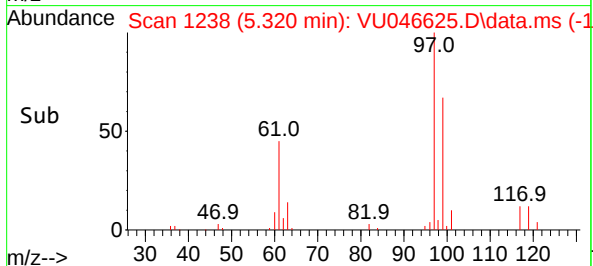
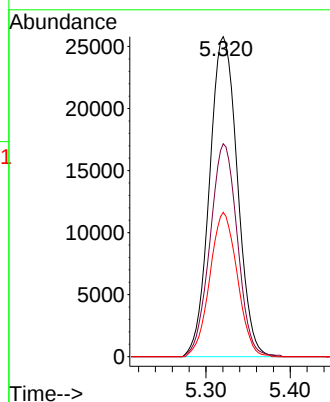
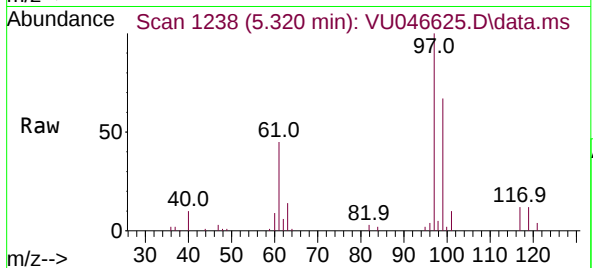




#29  
1,1,1-Trichloroethane  
Concen: 4.991 ug/L  
RT: 5.320 min Scan# 1238  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

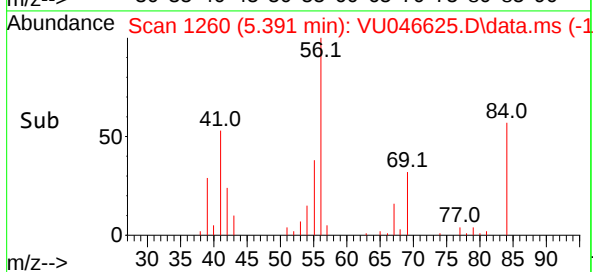
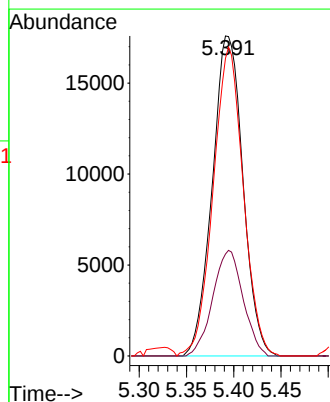
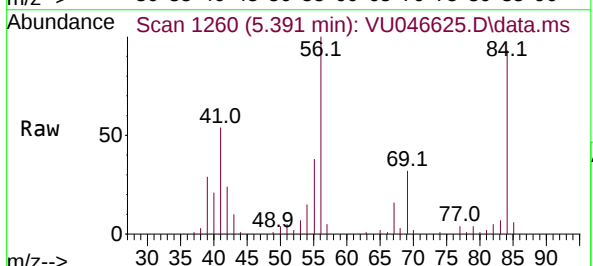
Instrument :  
MSVOA\_U  
ClientSampleId :

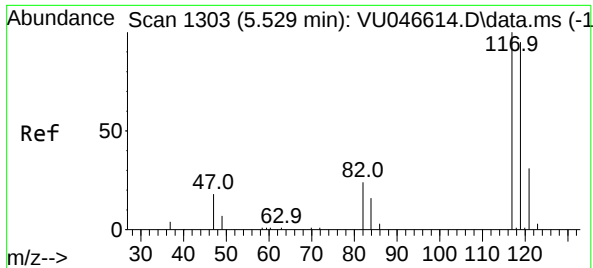
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 59213 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 65.5     | 51.3 76.9   |
| 61 44.5     | 36.1 54.1   |



#30  
Cyclohexane  
Concen: 4.042 ug/L  
RT: 5.391 min Scan# 1260  
Delta R.T. -0.003 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 39671 |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 32.6     | 24.7 37.1   |
| 84 94.5     | 71.8 107.6  |

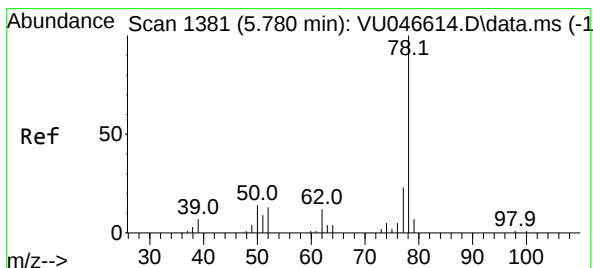
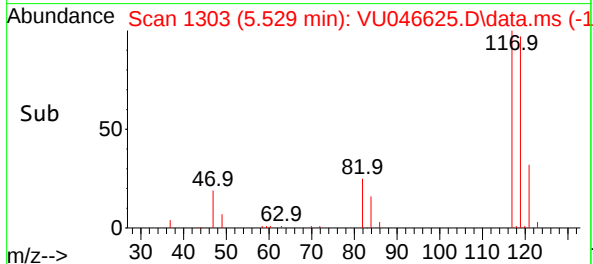
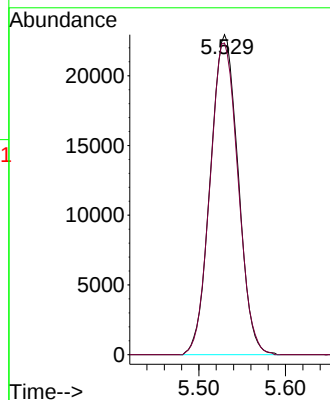
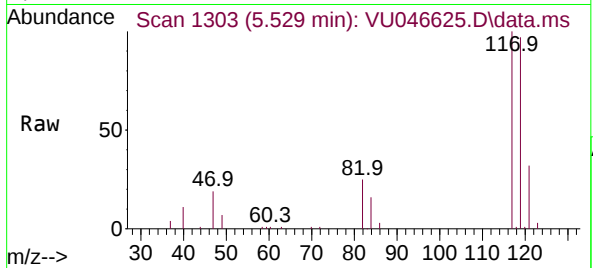




#31  
Carbon tetrachloride  
Concen: 5.132 ug/L  
RT: 5.529 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

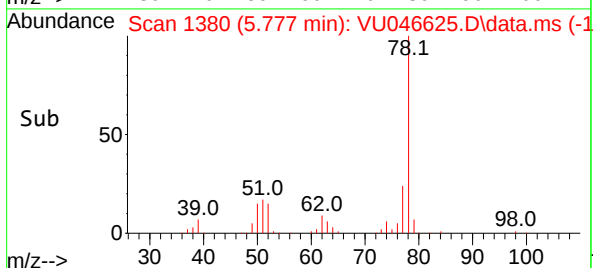
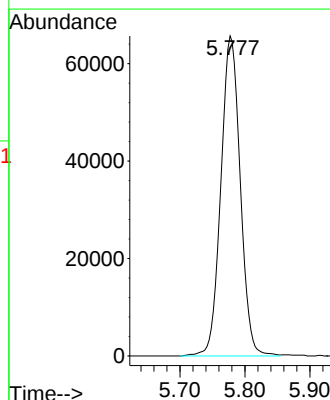
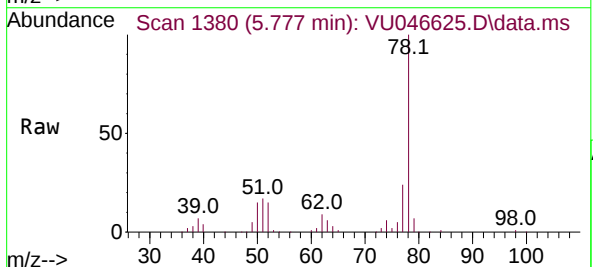
Instrument :  
MSVOA\_U  
ClientSampleId :

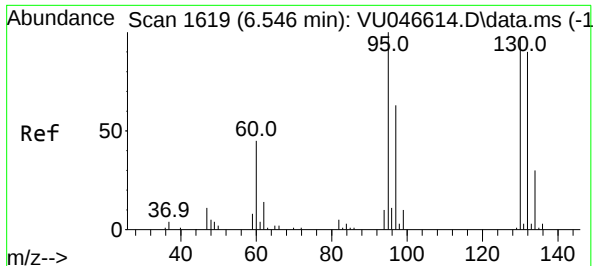
Tgt Ion:117 Resp: 51088  
Ion Ratio Lower Upper  
117 100  
119 98.3 77.5 116.3



#33  
Benzene  
Concen: 4.765 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. -0.003 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion: 78 Resp: 135831



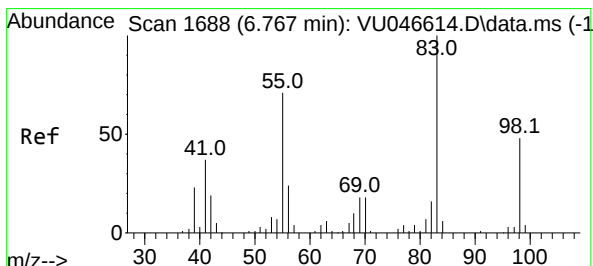
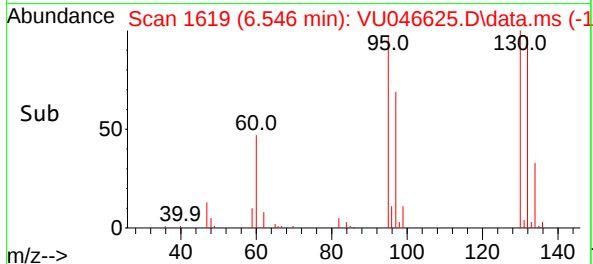
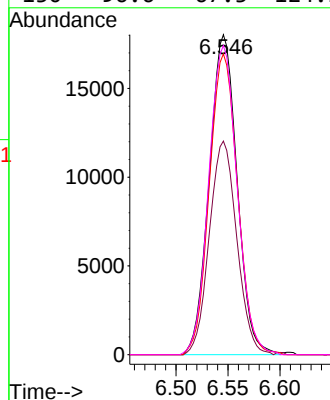
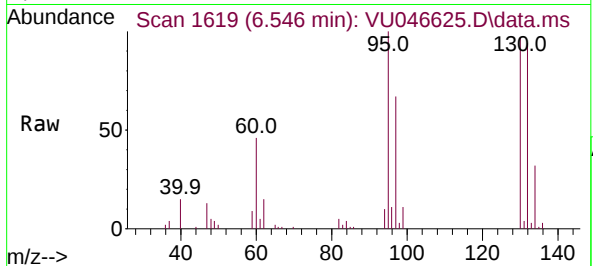


#34  
Trichloroethene  
Concen: 4.477 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 95 Resp: 33641

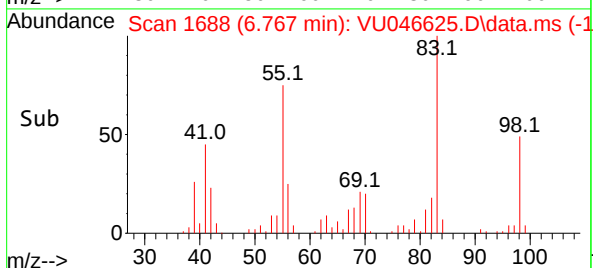
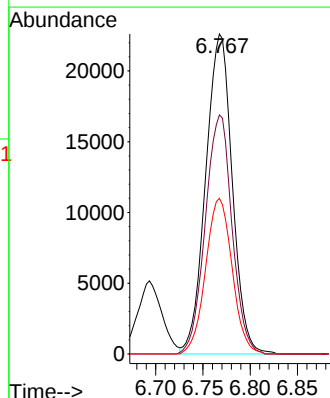
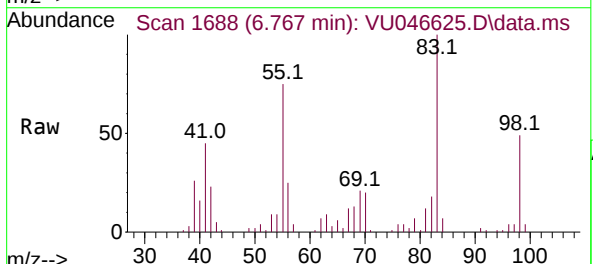
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.7  | 46.5  | 86.5  |
| 132 | 94.0  | 65.1  | 120.9 |
| 130 | 96.6  | 67.3  | 124.9 |

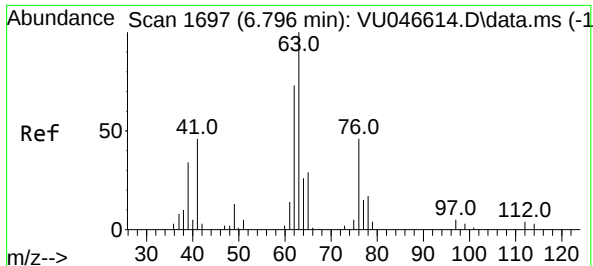


#35  
Methylcyclohexane  
Concen: 4.178 ug/L  
RT: 6.767 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion: 83 Resp: 44263

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 75.0  | 61.9  | 92.9  |
| 98  | 48.5  | 39.0  | 58.6  |





#37

1,2-Dichloropropane

Concen: 5.197 ug/L

RT: 6.793 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

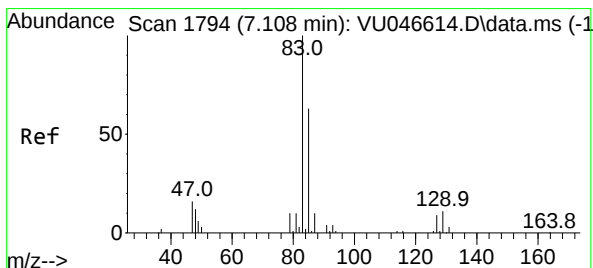
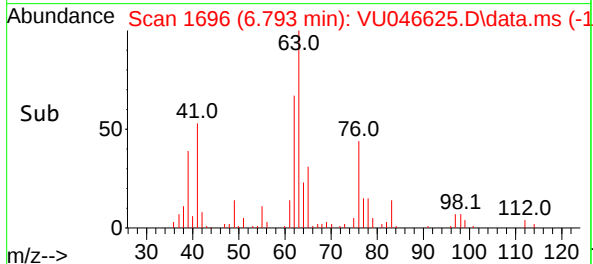
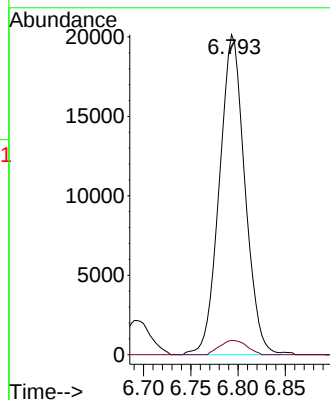
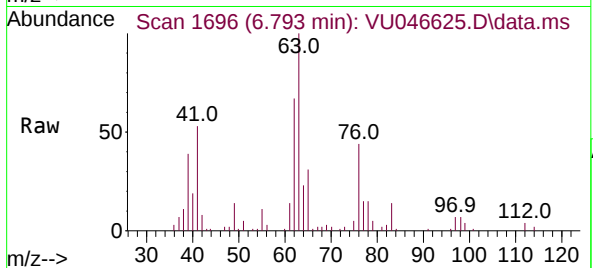
ClientSampleId :

Tgt Ion: 63 Resp: 37793

Ion Ratio Lower Upper

63 100

112 4.7 3.2 4.8



#38

Bromodichloromethane

Concen: 5.401 ug/L

RT: 7.108 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

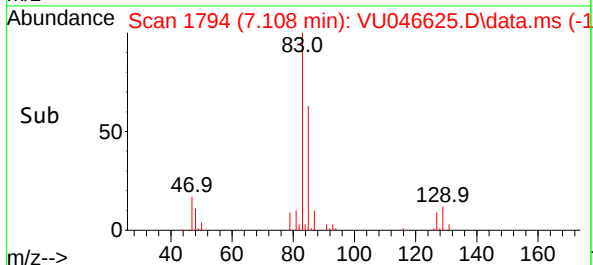
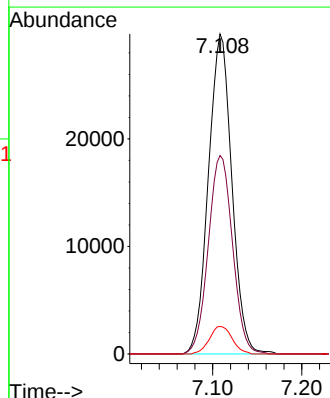
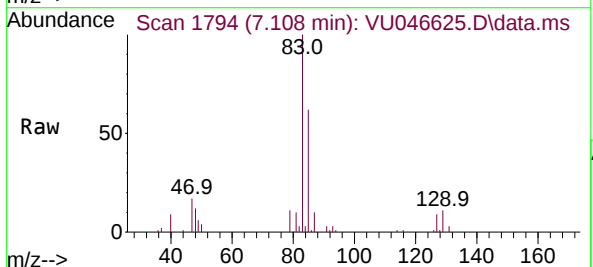
Tgt Ion: 83 Resp: 54360

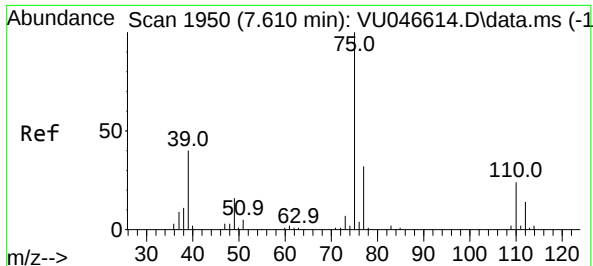
Ion Ratio Lower Upper

83 100

85 62.0 44.0 81.8

127 8.6 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 4.927 ug/L

RT: 7.610 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

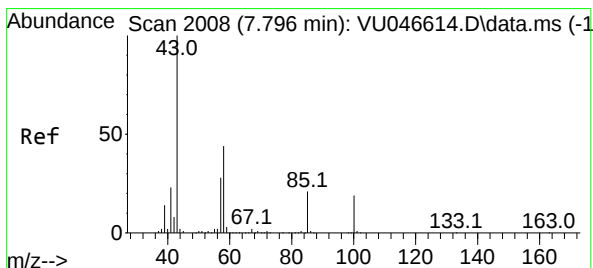
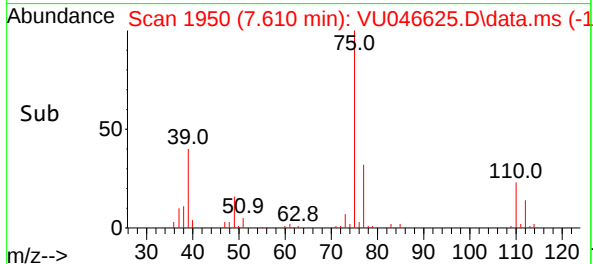
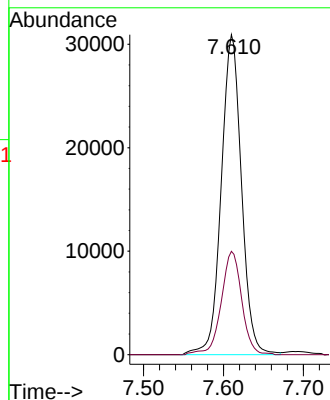
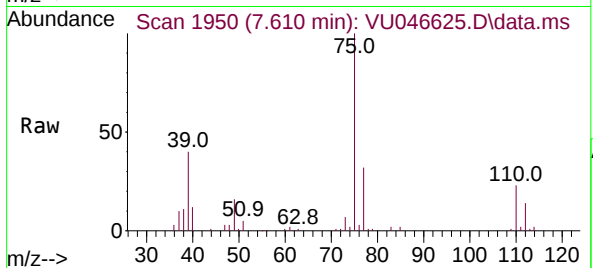
ClientSampleId :

Tgt Ion: 75 Resp: 54236

Ion Ratio Lower Upper

75 100

77 32.3 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 50.738 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

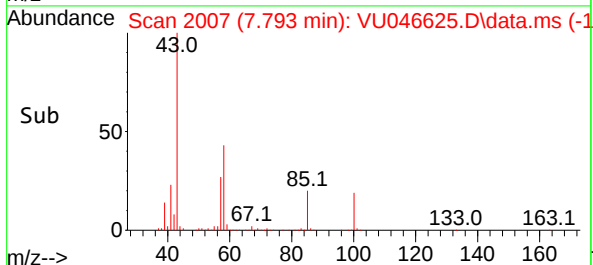
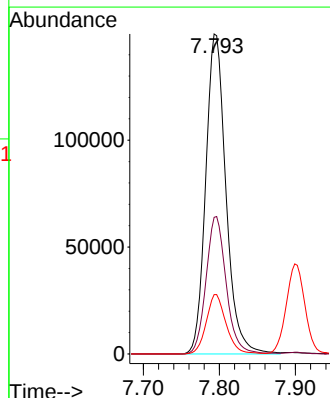
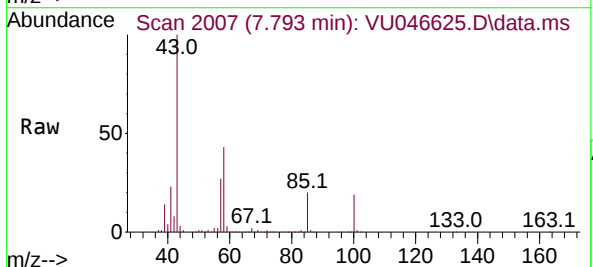
Tgt Ion: 43 Resp: 276948

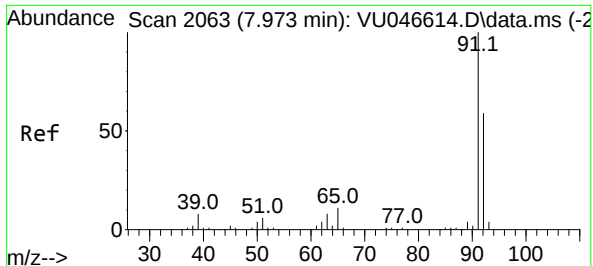
Ion Ratio Lower Upper

43 100

58 42.8 33.1 49.7

100 18.2 13.2 19.8





#42

Toluene

Concen: 5.006 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

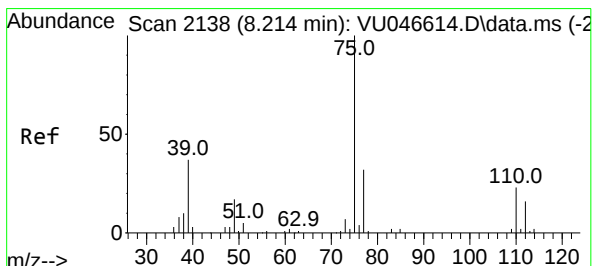
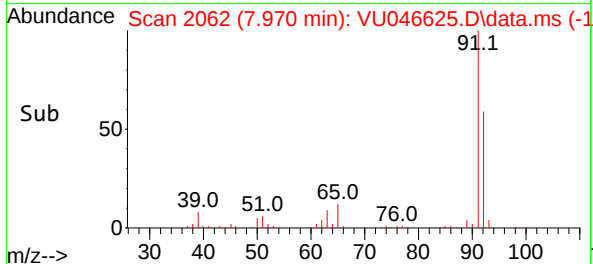
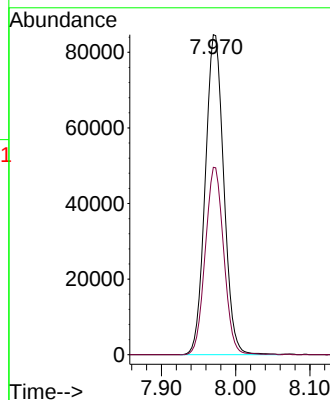
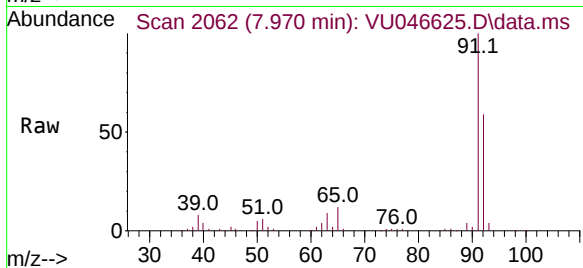
ClientSampleId :

Tgt Ion: 91 Resp: 146487

Ion Ratio Lower Upper

91 100

92 58.6 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 4.998 ug/L

RT: 8.214 min Scan# 2138

Delta R.T. -0.000 min

Lab File: VU046625.D

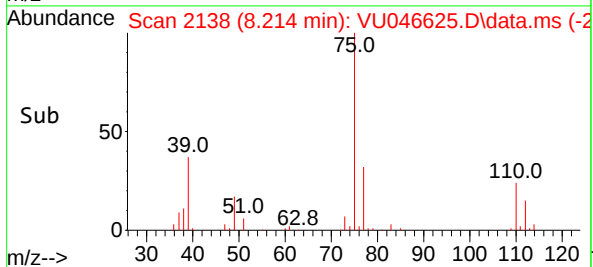
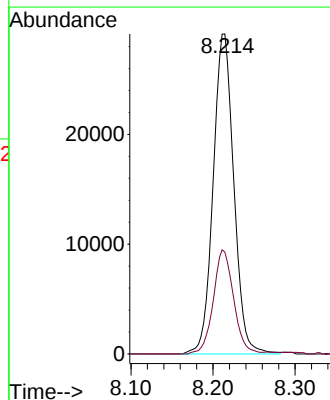
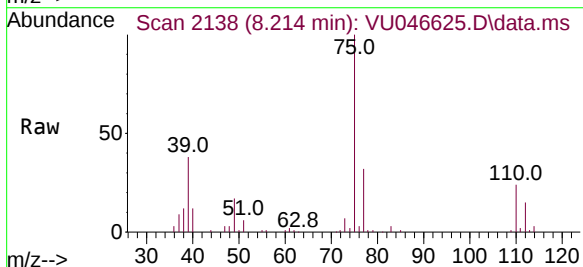
Acq: 28 Dec 2021 20:25

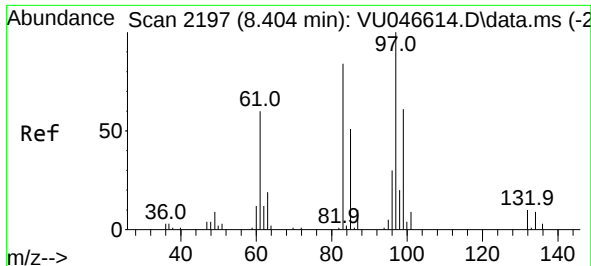
Tgt Ion: 75 Resp: 50984

Ion Ratio Lower Upper

75 100

77 31.9 22.7 42.3





#45

1,1,2-Trichloroethane

Concen: 4.980 ug/L

RT: 8.401 min Scan# 2197

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 97 Resp: 31227

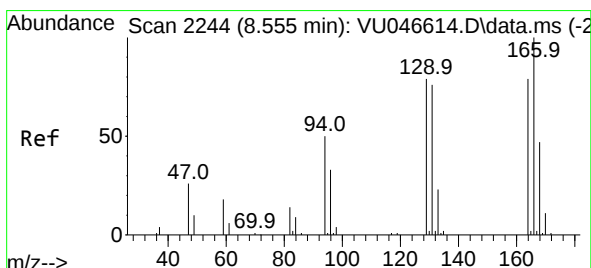
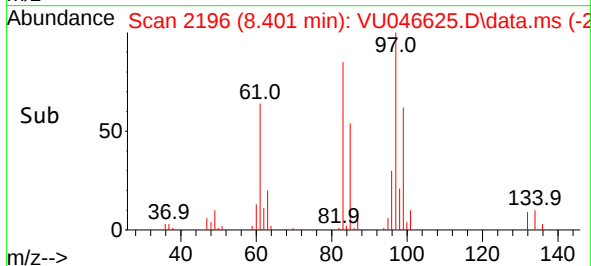
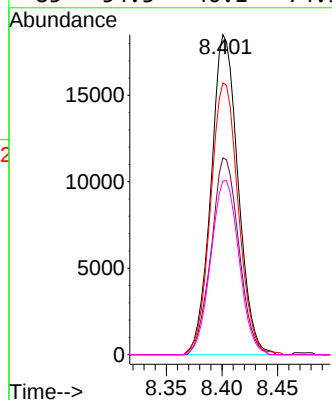
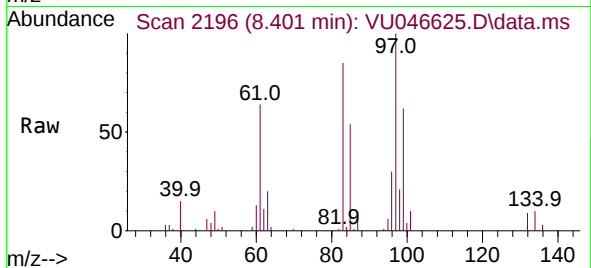
Ion Ratio Lower Upper

97 100

99 61.5 42.3 78.5

83 84.9 62.0 115.2

85 54.3 40.1 74.5



#47

Tetrachloroethene

Concen: 4.754 ug/L

RT: 8.555 min Scan# 2244

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Tgt Ion:164 Resp: 25280

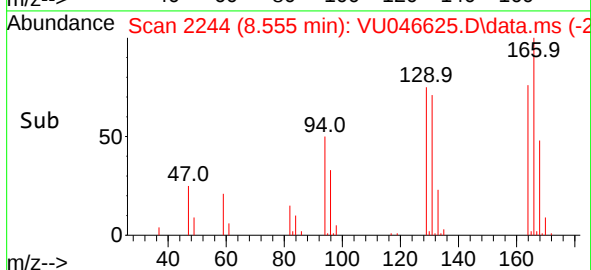
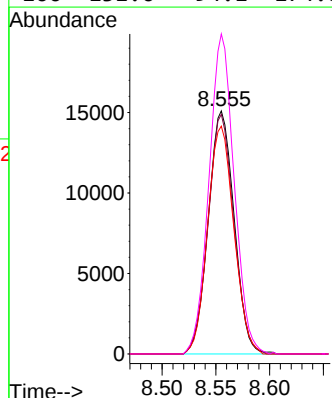
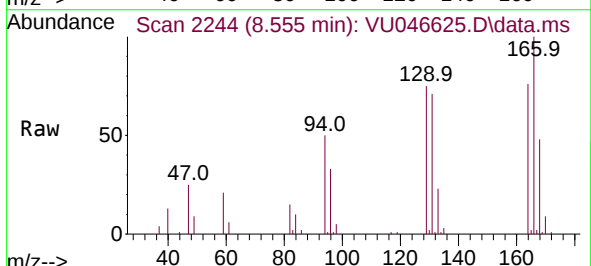
Ion Ratio Lower Upper

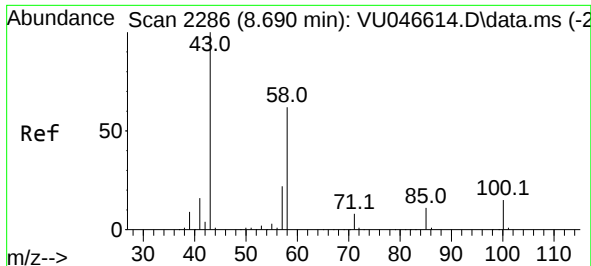
164 100

129 98.5 71.8 133.4

131 93.7 68.5 127.3

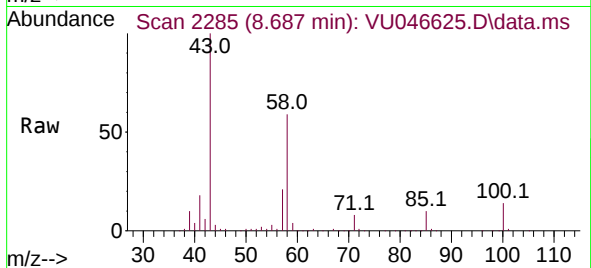
166 131.6 94.1 174.8



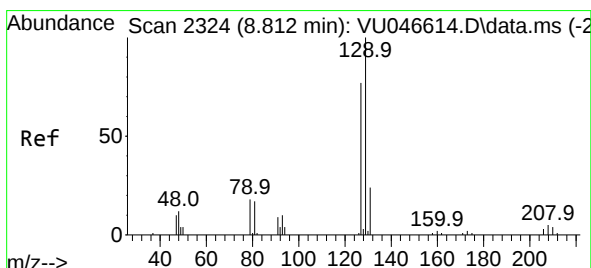
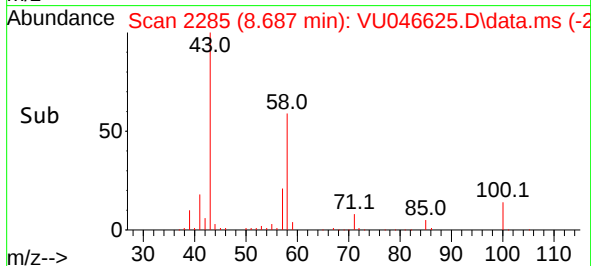
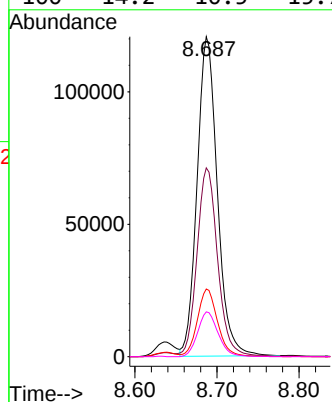


#48  
2-Hexanone  
Concen: 50.868 ug/L  
RT: 8.687 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Instrument :  
MSVOA\_U  
ClientSampleId :

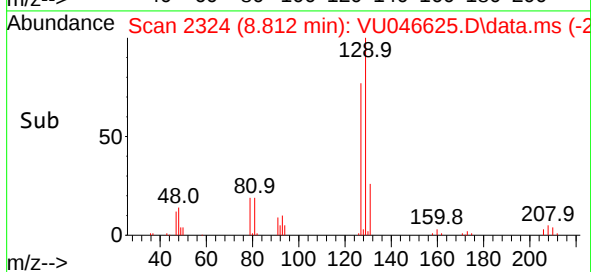
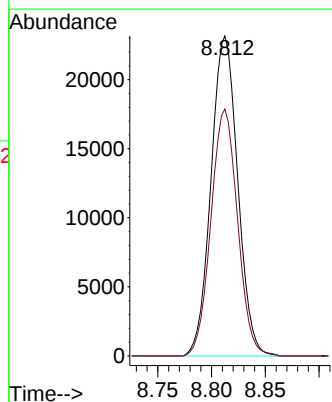
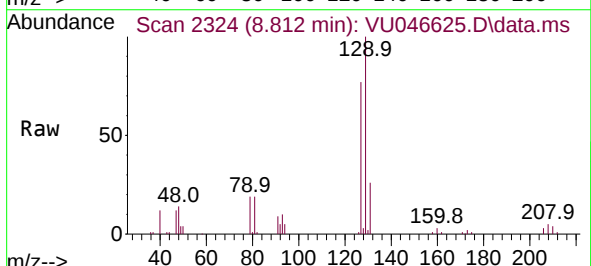


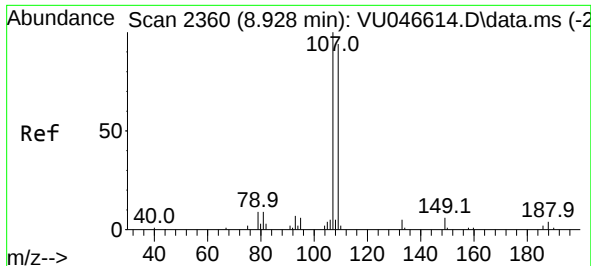
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 207360 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 58 60.1     | 46.7 70.1    |
| 57 21.0     | 16.3 24.5    |
| 100 14.2    | 10.5 15.7    |



#49  
Dibromochloromethane  
Concen: 5.528 ug/L  
RT: 8.812 min Scan# 2324  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:129 | Resp: | 39989 |       |
| Ion         | Ratio | Lower | Upper |
| 129         | 100   |       |       |
| 127         | 77.2  | 55.4  | 102.8 |





#50

1,2-Dibromoethane

Concen: 4.918 ug/L

RT: 8.925 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

ClientSampleId :

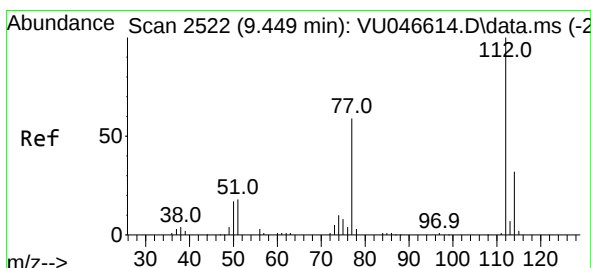
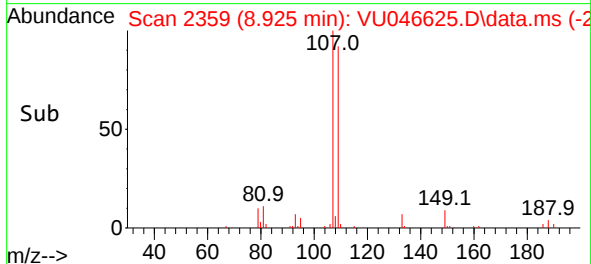
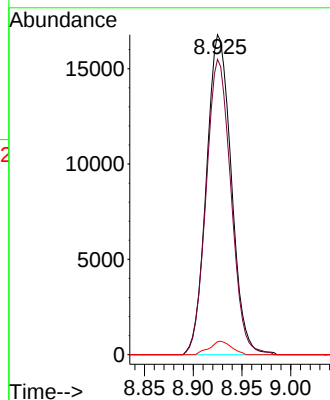
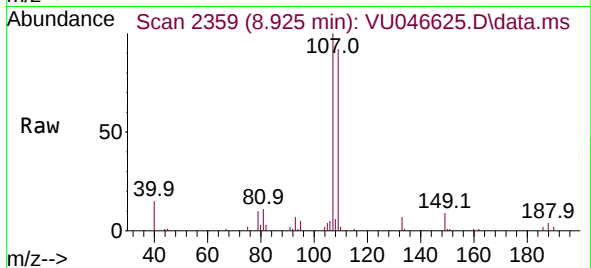
Tgt Ion:107 Resp: 29773

Ion Ratio Lower Upper

107 100

109 92.3 64.0 119.0

188 4.1 2.4 3.6#



#51

Chlorobenzene

Concen: 5.068 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

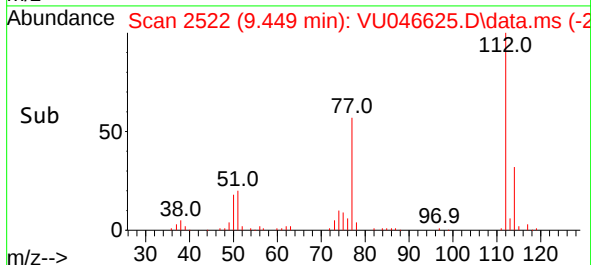
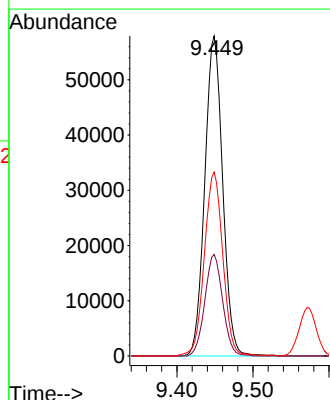
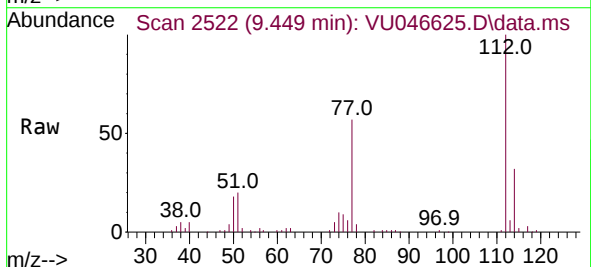
Tgt Ion:112 Resp: 94782

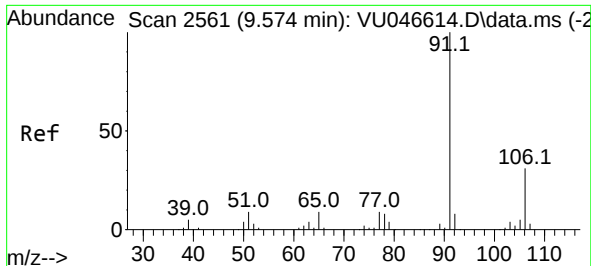
Ion Ratio Lower Upper

112 100

114 31.8 22.1 41.1

77 57.4 48.3 72.5

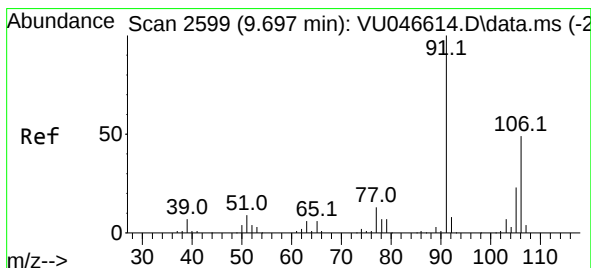
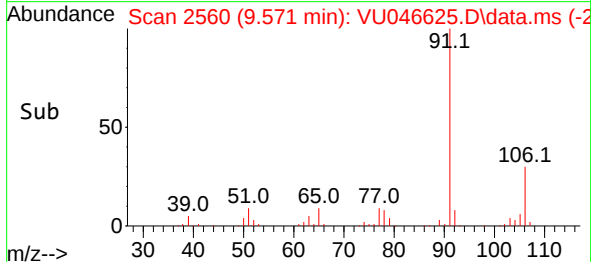
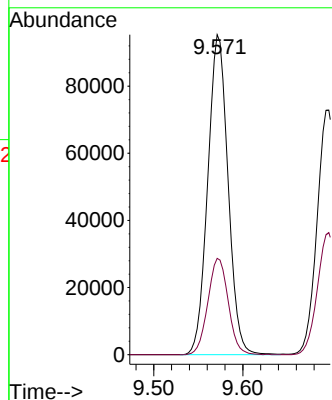
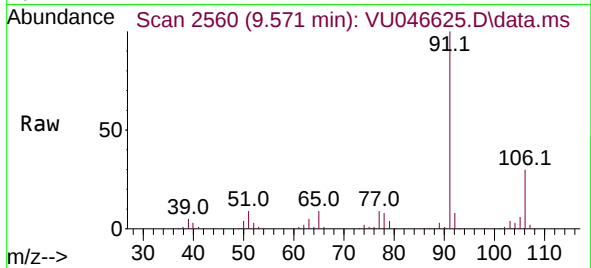




#52  
Ethylbenzene  
Concen: 4.976 ug/L  
RT: 9.571 min Scan# 2561  
Delta R.T. -0.003 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

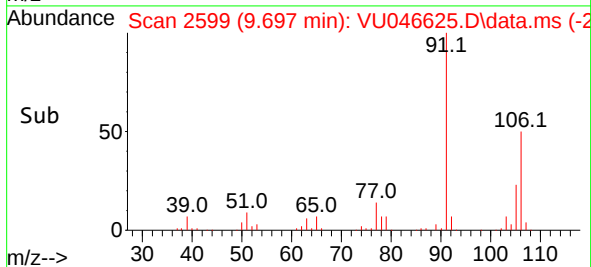
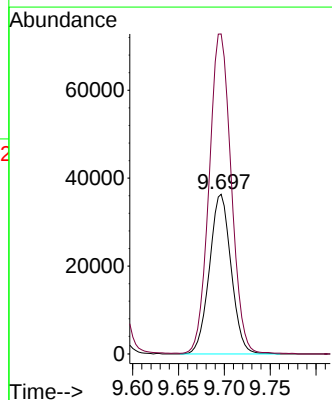
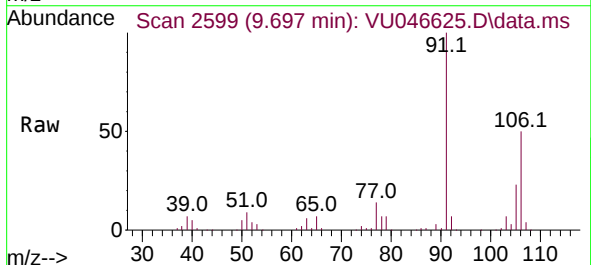
Instrument :  
MSVOA\_U  
ClientSampleId :

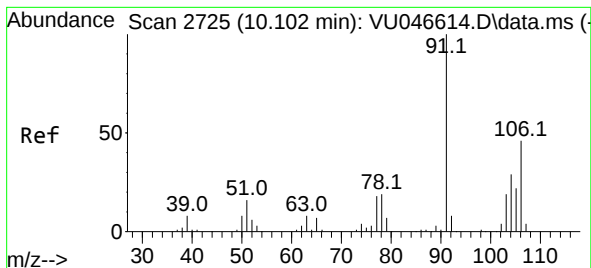
Tgt Ion: 91 Resp: 150702  
Ion Ratio Lower Upper  
91 100  
106 30.1 21.5 39.9



#53  
m,p-Xylene  
Concen: 5.150 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion: 106 Resp: 59760  
Ion Ratio Lower Upper  
106 100  
91 200.3 139.4 259.0





#54

o-Xylene

Concen: 5.296 ug/L

RT: 10.102 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

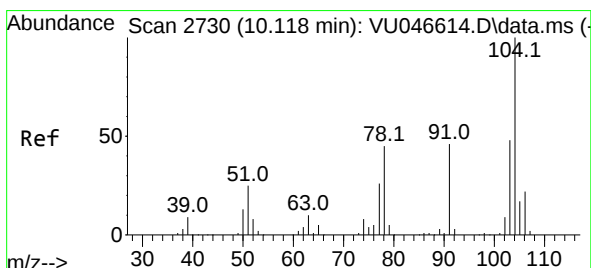
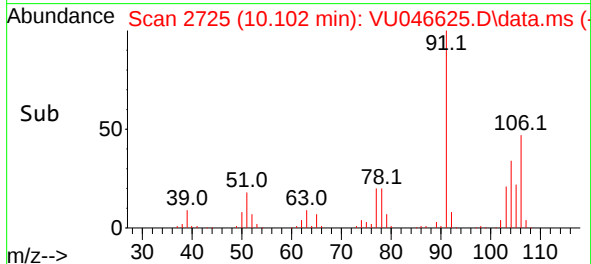
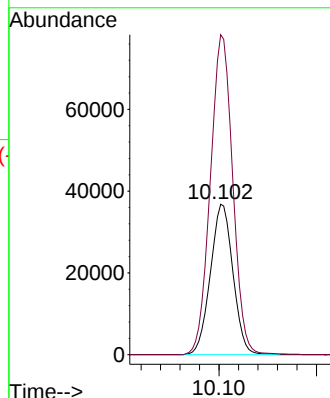
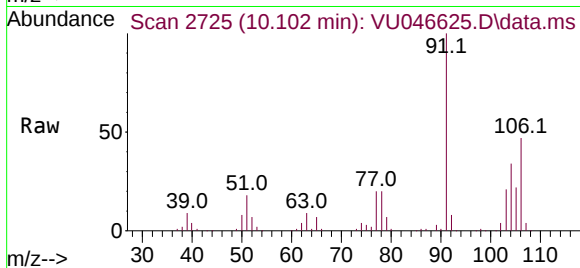
ClientSampleId :

Tgt Ion:106 Resp: 59044

Ion Ratio Lower Upper

106 100

91 212.8 147.5 273.9



#55

Styrene

Concen: 5.617 ug/L

RT: 10.115 min Scan# 2729

Delta R.T. -0.003 min

Lab File: VU046625.D

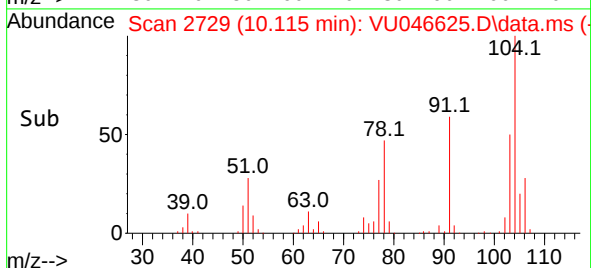
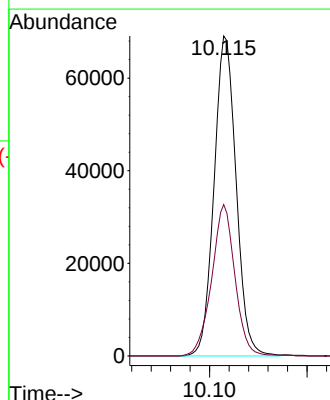
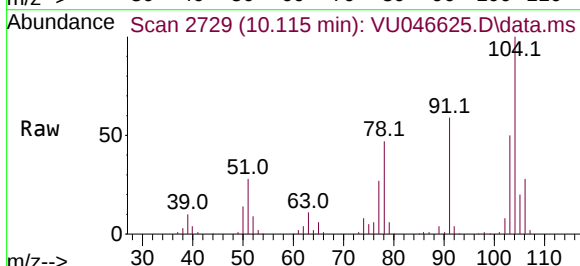
Acq: 28 Dec 2021 20:25

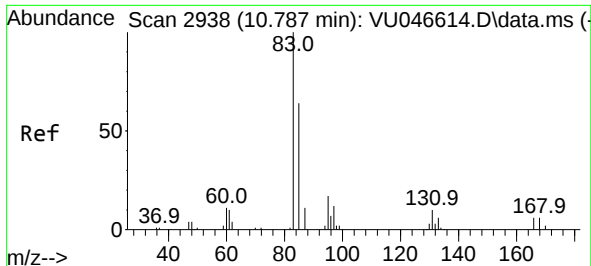
Tgt Ion:104 Resp: 108631

Ion Ratio Lower Upper

104 100

78 47.3 33.0 61.4





#57

1,1,2,2-Tetrachloroethane

Concen: 5.297 ug/L

RT: 10.783 min Scan# 2937

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

ClientSampleId :

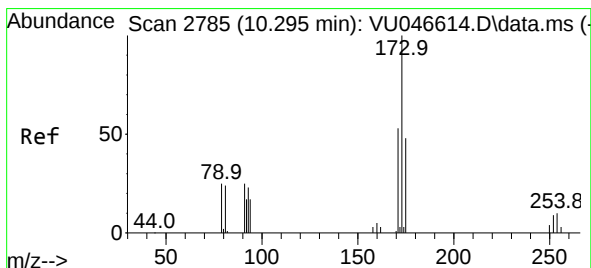
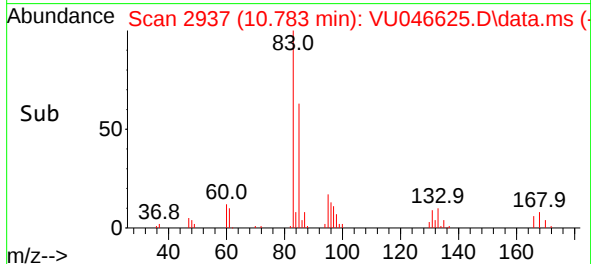
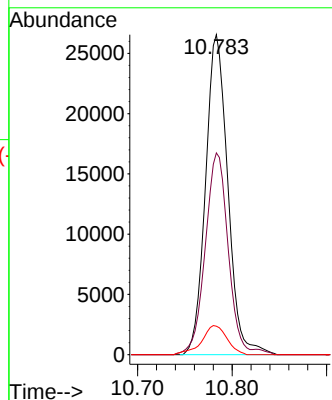
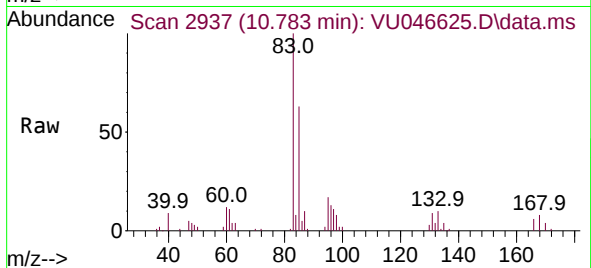
Tgt Ion: 83 Resp: 43410

Ion Ratio Lower Upper

83 100

85 63.1 47.9 89.1

131 8.9 8.1 12.1



#59

Bromoform

Concen: 5.038 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

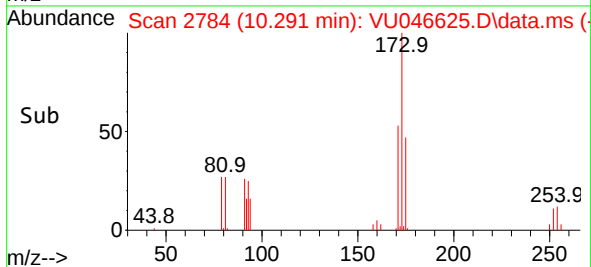
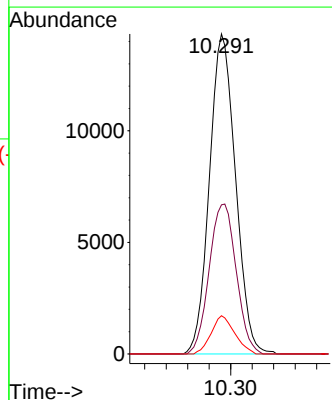
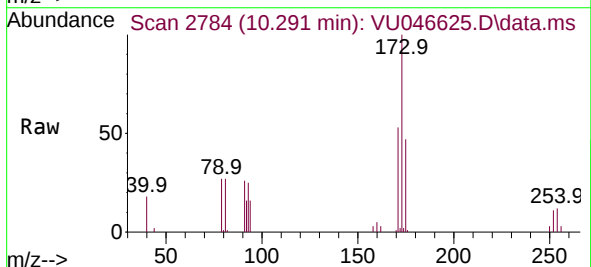
Tgt Ion:173 Resp: 24145

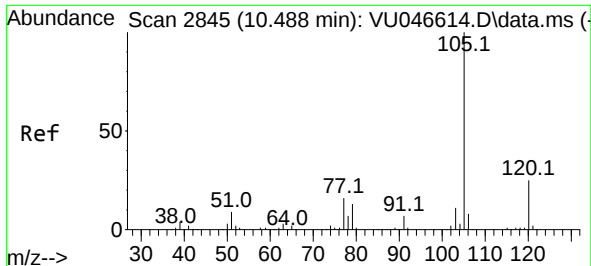
Ion Ratio Lower Upper

173 100

175 48.5 37.8 56.6

254 10.8 7.3 10.9

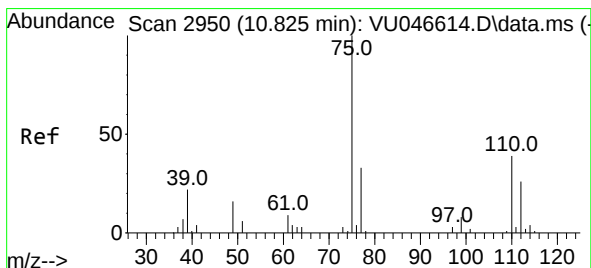
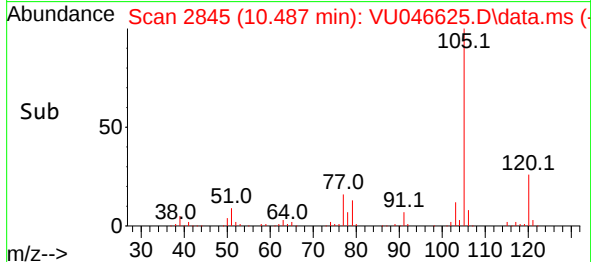
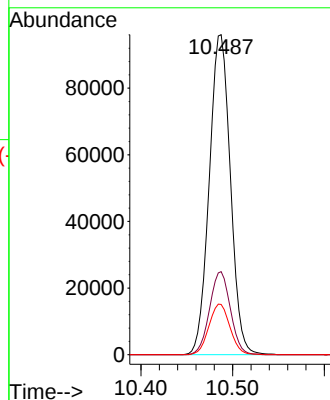
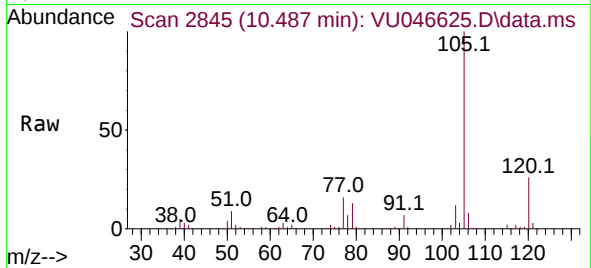




#60  
Isopropylbenzene  
Concen: 4.807 ug/L  
RT: 10.487 min Scan# 2845  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

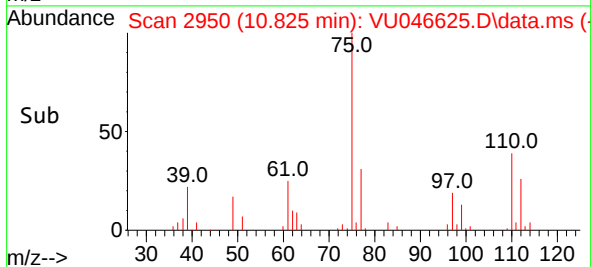
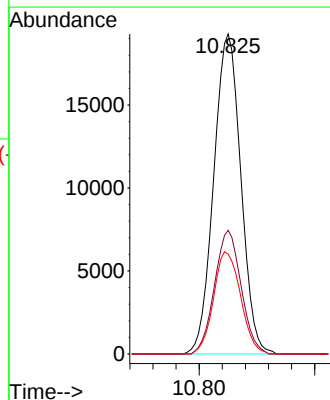
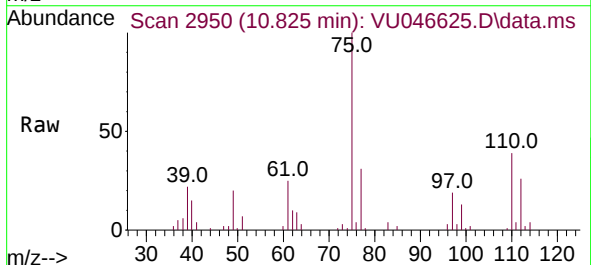
Instrument :  
MSVOA\_U  
ClientSampleId :

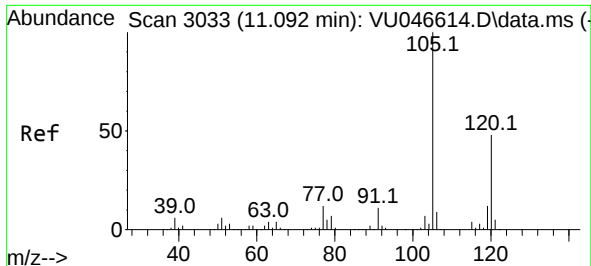
Tgt Ion:105 Resp: 153807  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.7 31.1  
77 15.7 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 4.553 ug/L  
RT: 10.825 min Scan# 2950  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion: 75 Resp: 31369  
Ion Ratio Lower Upper  
75 100  
110 37.8 29.9 44.9  
77 31.9 25.5 38.3





#62

1,3,5-Trimethylbenzene

Concen: 4.675 ug/L

RT: 11.089 min Scan# 3033

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

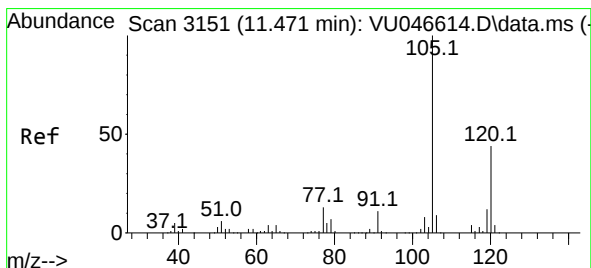
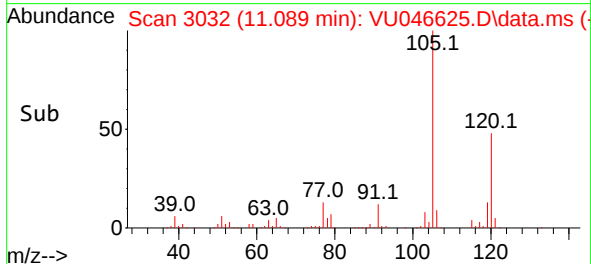
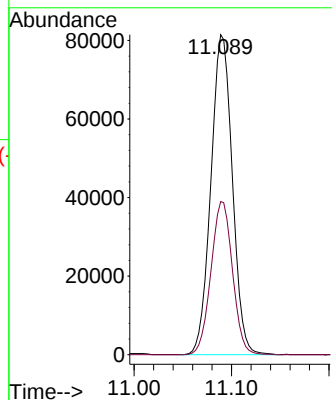
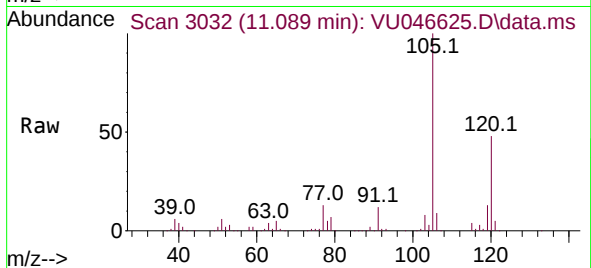
ClientSampleId :

Tgt Ion:105 Resp: 124389

Ion Ratio Lower Upper

105 100

120 48.0 38.3 57.5



#63

1,2,4-Trimethylbenzene

Concen: 4.861 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046625.D

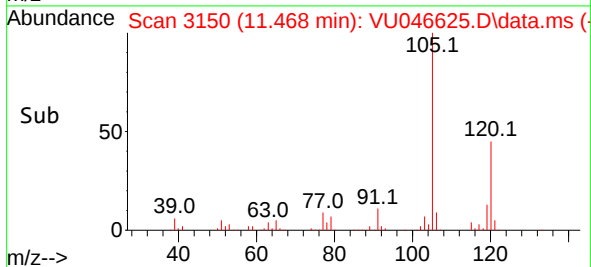
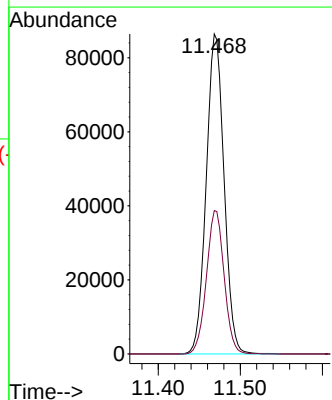
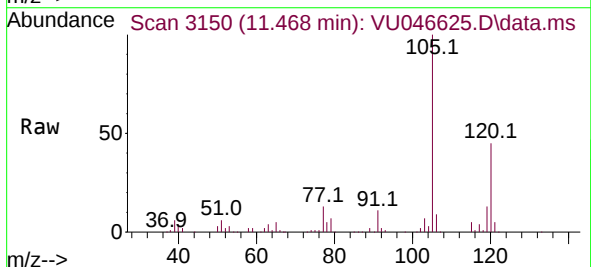
Acq: 28 Dec 2021 20:25

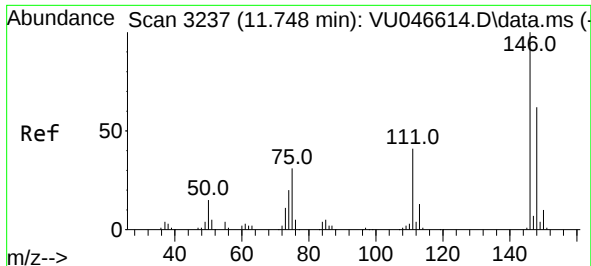
Tgt Ion:105 Resp: 130257

Ion Ratio Lower Upper

105 100

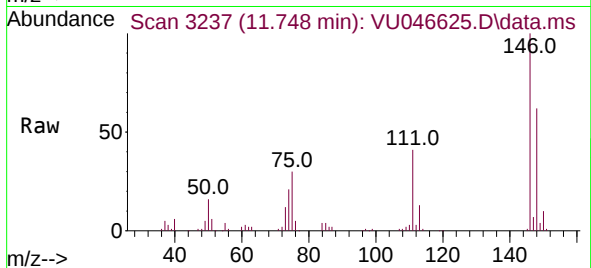
120 44.5 35.8 53.8



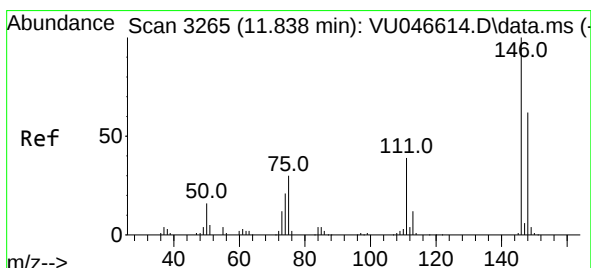
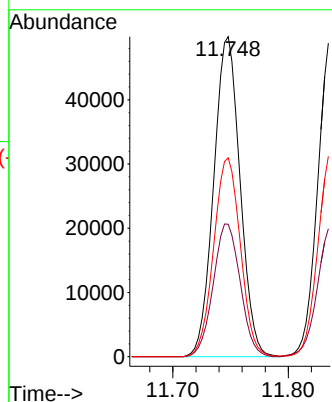
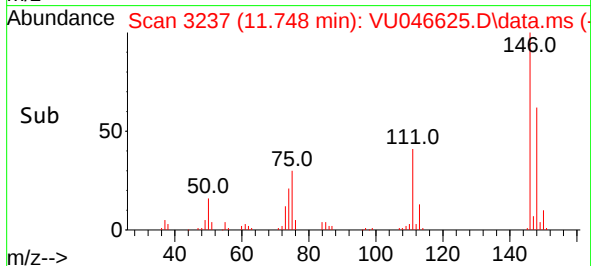


#64  
1,3-Dichlorobenzene  
Concen: 5.073 ug/L  
RT: 11.748 min Scan# 3237  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

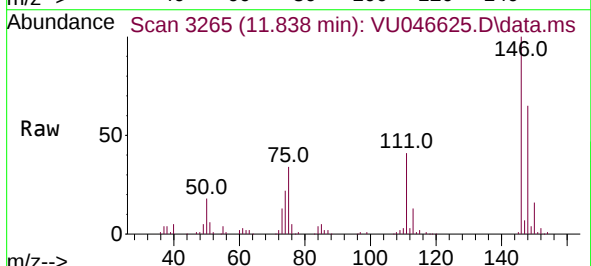
Instrument :  
MSVOA\_U  
ClientSampleId :



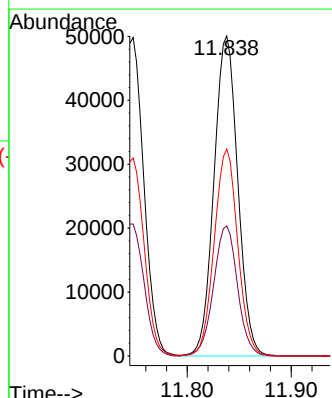
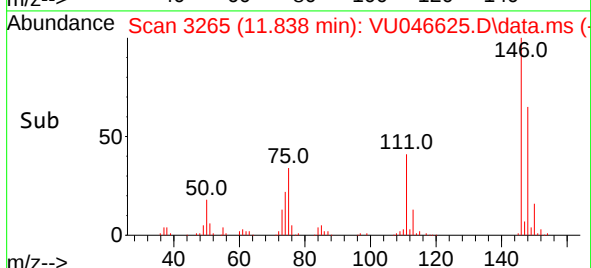
Tgt Ion:146 Resp: 78891  
Ion Ratio Lower Upper  
146 100  
111 41.4 29.9 55.5  
148 62.1 44.3 82.3

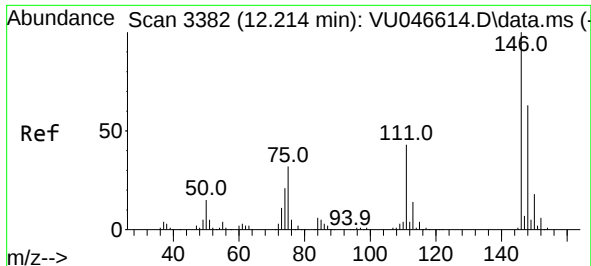


#65  
1,4-Dichlorobenzene  
Concen: 5.010 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25



Tgt Ion:146 Resp: 79765  
Ion Ratio Lower Upper  
146 100  
111 40.6 28.7 53.3  
148 64.6 45.8 85.0





#67

1,2-Dichlorobenzene

Concen: 4.956 ug/L

RT: 12.214 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

Instrument :

MSVOA\_U

ClientSampleId :

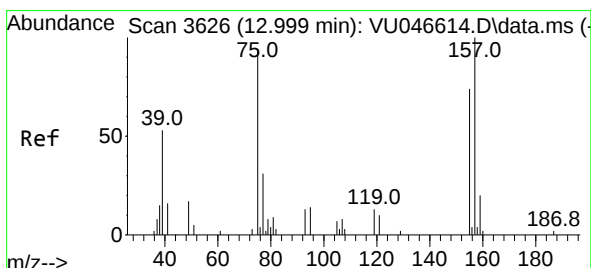
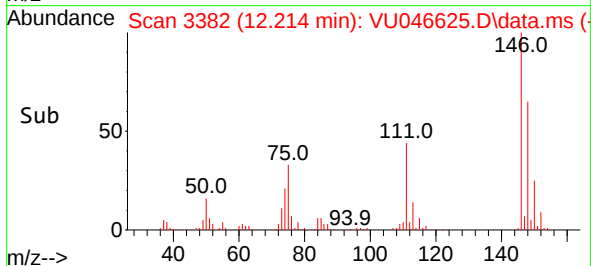
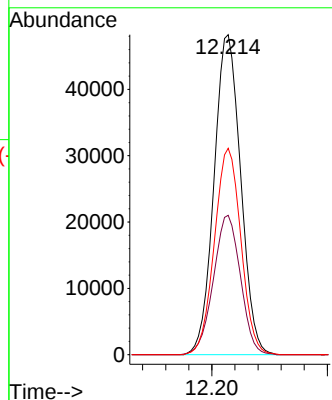
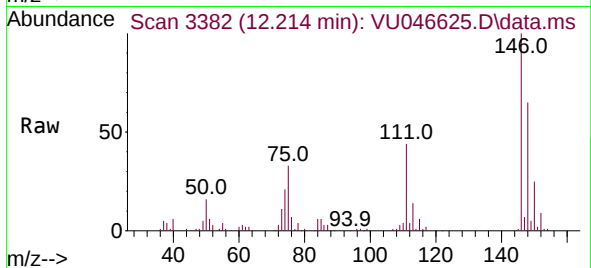
Tgt Ion:146 Resp: 77302

Ion Ratio Lower Upper

146 100

111 43.6 35.4 53.0

148 64.5 51.1 76.7



#68

1,2-Dibromo-3-chloropropane

Concen: 5.084 ug/L

RT: 12.995 min Scan# 3625

Delta R.T. -0.003 min

Lab File: VU046625.D

Acq: 28 Dec 2021 20:25

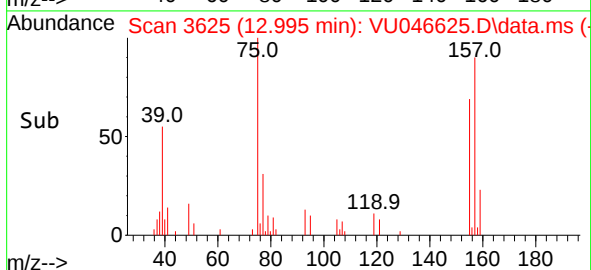
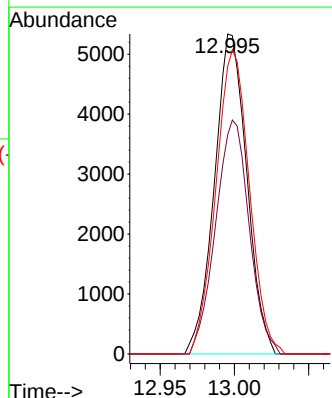
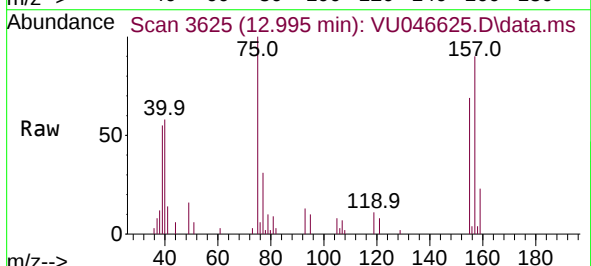
Tgt Ion: 75 Resp: 8108

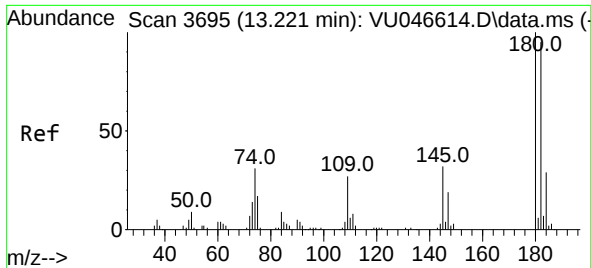
Ion Ratio Lower Upper

75 100

155 68.5 59.2 88.8

157 89.8 76.5 114.7

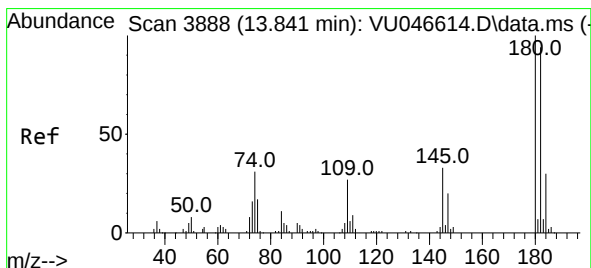
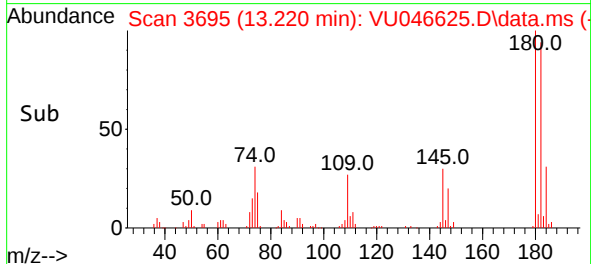
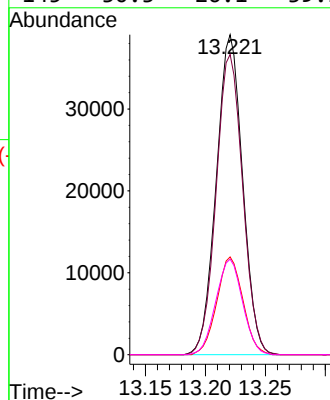
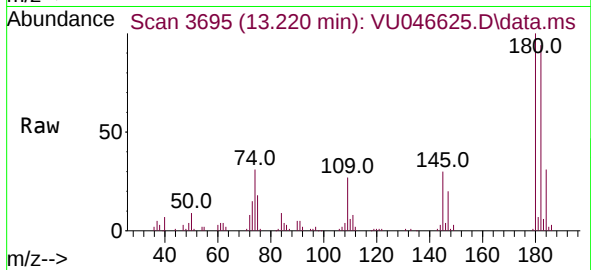




#69  
1,3,5-Trichlorobenzene  
Concen: 5.054 ug/L  
RT: 13.220 min Scan# 3695  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

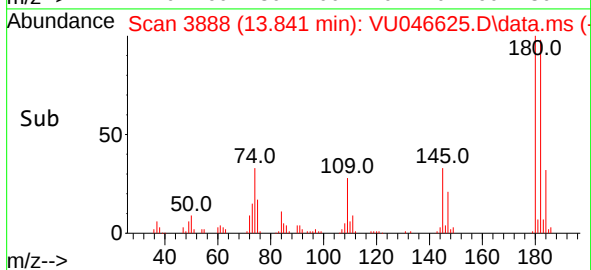
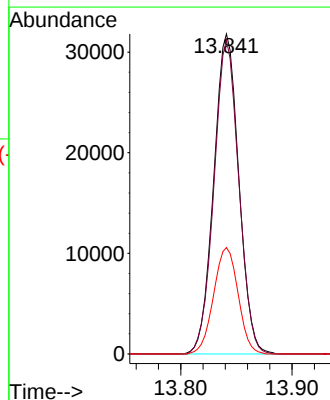
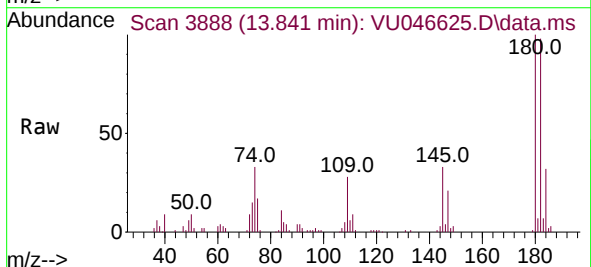
Instrument :  
MSVOA\_U  
ClientSampleId :

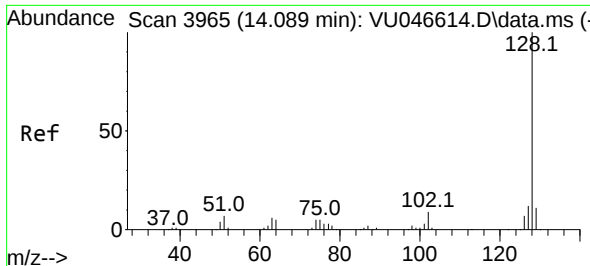
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 59483      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.8  | 76.1 114.1 |
| 184         | 30.3  | 25.0 37.4  |
| 145         | 30.3  | 26.1 39.1  |



#70  
1,2,4-trichlorobenzene  
Concen: 4.980 ug/L  
RT: 13.841 min Scan# 3888  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

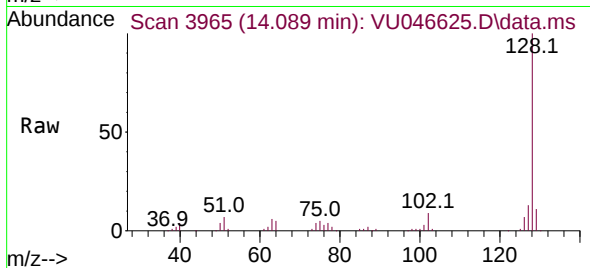
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 49653      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.9  | 76.4 114.6 |
| 145         | 32.6  | 25.6 38.4  |





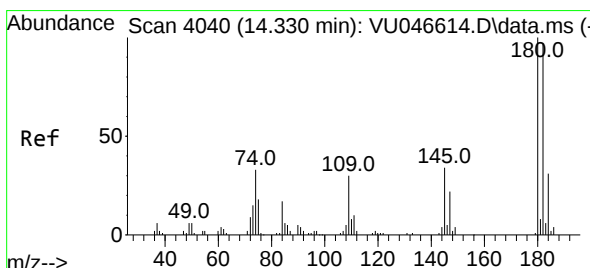
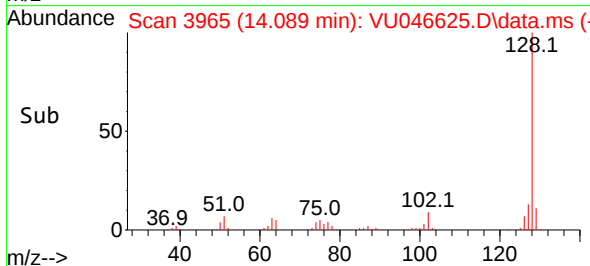
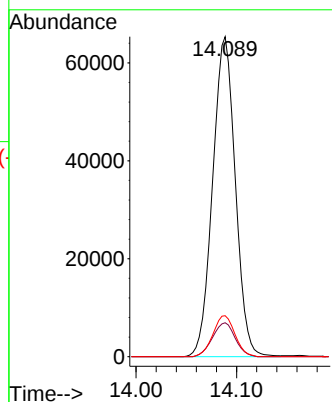
#71  
Naphthalene  
Concen: 4.620 ug/L  
RT: 14.089 min Scan# 3965  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 102294

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 10.6  | 8.4   | 12.6  |
| 127 | 12.5  | 10.2  | 15.2  |



#72  
1,2,3-Trichlorobenzene  
Concen: 5.192 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. -0.000 min  
Lab File: VU046625.D  
Acq: 28 Dec 2021 20:25

Tgt Ion:180 Resp: 51241

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 95.6  | 76.2  | 114.4 |
| 145 | 33.7  | 28.4  | 42.6  |

