

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU051322\  
 Data File : VU048574.D  
 Acq On : 13 May 2022 20:00  
 Operator : SY/MD  
 Sample : VSTDCC050EC  
 Misc : 6.79g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050127

Quant Time: May 14 04:20:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM050622WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat May 14 04:14:40 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 271160   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 266771   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 156048   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600   | 65    | 66976    | 28.680   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 57.360%# |
| 7) Chloroethane-d5            | 1.909   | 69    | 54307    | 35.632   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 71.260%  |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 165433   | 39.804   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 79.600%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 167331   | 84.136   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 84.140%  |
| 24) Chloroform-d              | 5.063   | 84    | 198675   | 48.980   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.960%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 140570   | 53.313   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 106.620% |
| 32) Benzene-d6                | 5.729   | 84    | 350708   | 43.262   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.520%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 107900   | 40.816   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 81.640%  |
| 41) Toluene-d8                | 7.899   | 98    | 331085   | 46.179   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 92.360%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 62587    | 51.438   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 102.880% |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 122084   | 95.415   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 95.420%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.754  | 84    | 178812   | 44.406   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 88.820%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 150087   | 48.572   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.140%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 116224   | 47.382   | ug/L   | 98       |
| 3) Chloromethane              | 1.523   | 50    | 88644    | 31.595   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.604   | 62    | 93458    | 35.063   | ug/L   | 98       |
| 6) Bromomethane               | 1.851   | 94    | 67104    | 50.909   | ug/L   | 99       |
| 8) Chloroethane               | 1.932   | 64    | 57478    | 40.110   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 180485   | 51.538   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581   | 101   | 93621    | 46.586   | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 2.581   | 96    | 86704    | 45.632   | ug/L   | 90       |
| 13) Acetone                   | 2.623   | 43    | 110745   | 73.860   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.793   | 76    | 232680   | 39.509   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.944   | 43    | 115708   | 37.669   | ug/L   | 92       |
| 16) Methylene chloride        | 3.044   | 84    | 104478   | 44.965   | ug/L   | 89       |
| 17) trans-1,2-Dichloroethene  | 3.353   | 96    | 95038    | 46.883   | ug/L   | 93       |
| 18) Methyl tert-butyl Ether   | 3.362   | 73    | 344952   | 50.530   | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.870   | 63    | 183067   | 43.797   | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.668   | 96    | 110275   | 48.208   | ug/L   | 93       |
| 22) 2-Butanone                | 4.697   | 43    | 164972   | 73.603   | ug/L   | 93       |
| 23) Bromochloromethane        | 4.973   | 128   | 61439    | 50.965   | ug/L # | 78       |
| 25) Chloroform                | 5.089   | 83    | 208324   | 50.472   | ug/L   | 99       |

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 Sample : VSTDCCC050EC  
 Misc : 6.79g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 24 Sample Multiplier: 1

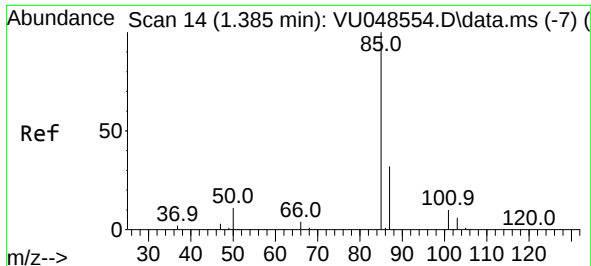
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050127

Quant Time: May 14 04:20:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM050622WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat May 14 04:14:40 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 180043   | 53.054 | ug/L   | 98       |
| 29) Cyclohexane               | 5.391  | 56   | 140266   | 38.103 | ug/L   | 86       |
| 30) 1,1,1-Trichloroethane     | 5.317  | 97   | 201114   | 54.285 | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.526  | 117  | 178424   | 56.244 | ug/L   | 98       |
| 33) Benzene                   | 5.774  | 78   | 407188   | 44.331 | ug/L   | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 109556   | 48.523 | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.764  | 83   | 160470   | 44.546 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 101633   | 39.644 | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.105  | 83   | 159736   | 51.173 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 167547   | 45.949 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 310735   | 75.649 | ug/L # | 92       |
| 42) Toluene                   | 7.970  | 91   | 452602   | 47.743 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 178214   | 50.293 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 110721   | 47.758 | ug/L   | 96       |
| 46) Tetrachloroethene         | 8.555  | 164  | 90020    | 53.073 | ug/L   | 97       |
| 48) 2-Hexanone                | 8.684  | 43   | 253408   | 74.233 | ug/L # | 96       |
| 49) Dibromochloromethane      | 8.809  | 129  | 134750   | 54.122 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 121939   | 49.757 | ug/L   | 100      |
| 51) Chlorobenzene             | 9.446  | 112  | 298245   | 49.931 | ug/L   | 98       |
| 52) Ethylbenzene              | 9.571  | 91   | 502891   | 50.924 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.693  | 106  | 199317   | 52.289 | ug/L   | 99       |
| 54) o-Xylene                  | 10.102 | 106  | 198292   | 51.706 | ug/L   | 97       |
| 55) Styrene                   | 10.115 | 104  | 339543   | 54.456 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 189385   | 43.585 | ug/L # | 99       |
| 59) Bromoform                 | 10.291 | 173  | 108524   | 49.037 | ug/L   | 99       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 166289   | 40.823 | ug/L   | 96       |
| 61) Isopropylbenzene          | 10.484 | 105  | 516197   | 47.207 | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 303063   | 50.278 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 468735   | 52.215 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 258569   | 50.138 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 258848   | 50.062 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 259514   | 49.173 | ug/L   | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.995 | 75   | 57972    | 48.557 | ug/L   | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.220 | 180  | 197119   | 54.059 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 179848   | 56.795 | ug/L   | 99       |
| 71) Naphthalene               | 14.085 | 128  | 607739   | 49.837 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 180752   | 53.669 | ug/L   | 99       |

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

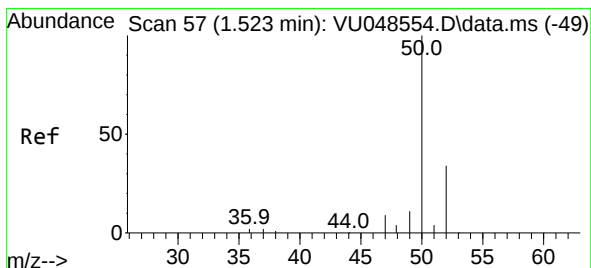
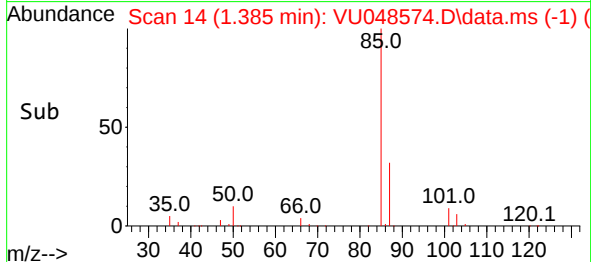
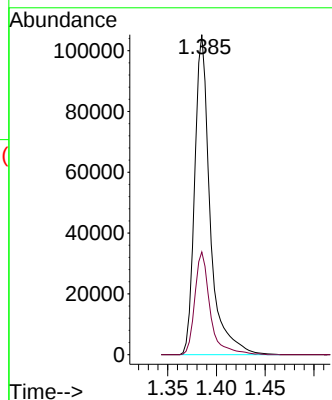
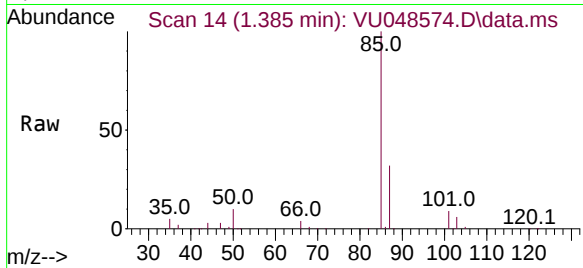




#2  
Dichlorodifluoromethane  
Concen: 47.382 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

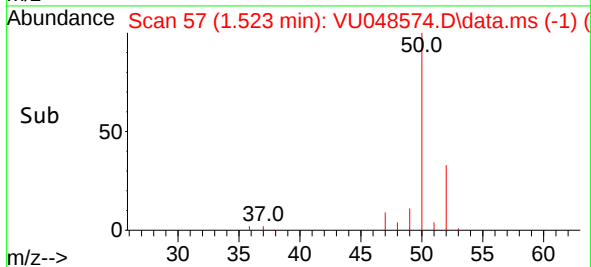
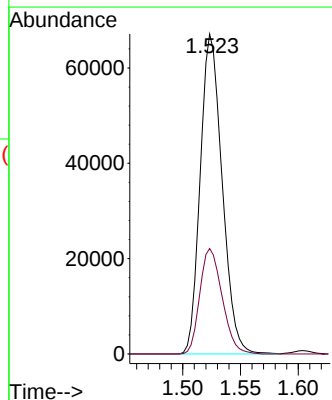
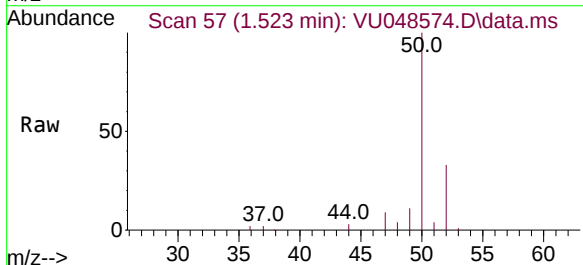
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

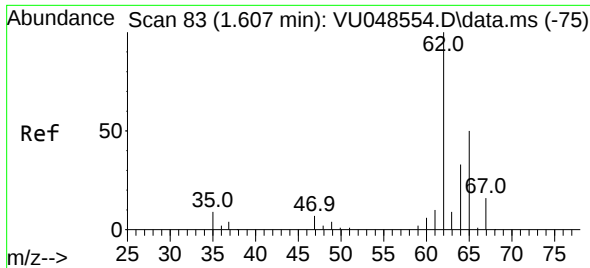
Tgt Ion: 85 Resp: 116224  
Ion Ratio Lower Upper  
85 100  
87 31.9 26.2 39.4



#3  
Chloromethane  
Concen: 31.595 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion: 50 Resp: 88644  
Ion Ratio Lower Upper  
50 100  
52 32.9 23.0 42.8

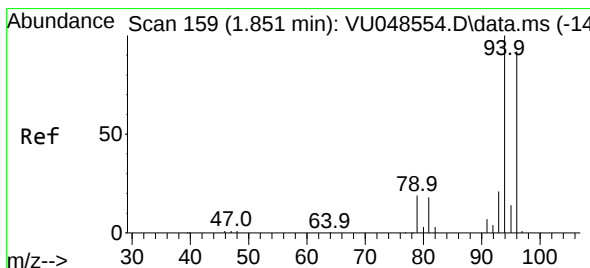
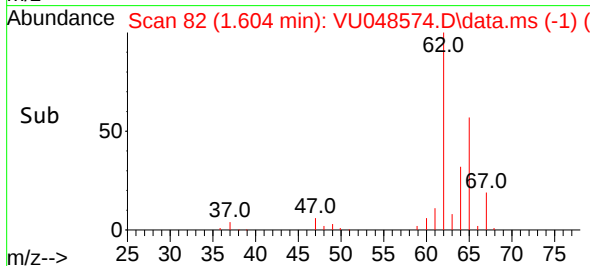
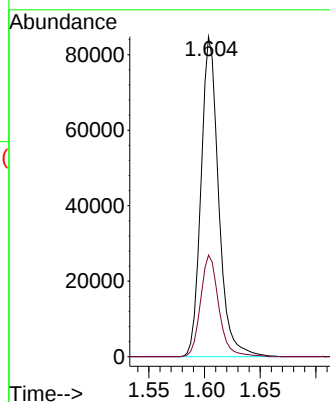
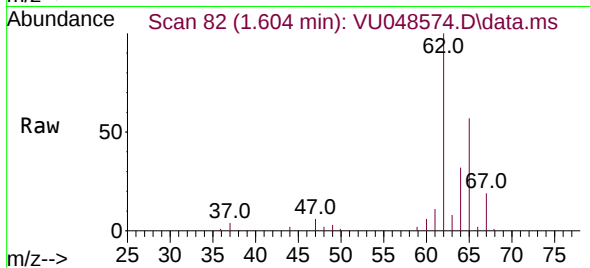




#5  
 Vinyl chloride  
 Concen: 35.063 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VU048574.D  
 Acq: 13 May 2022 20:00

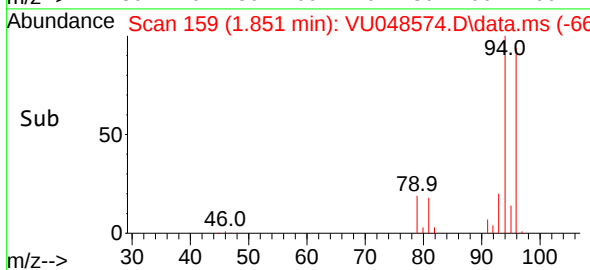
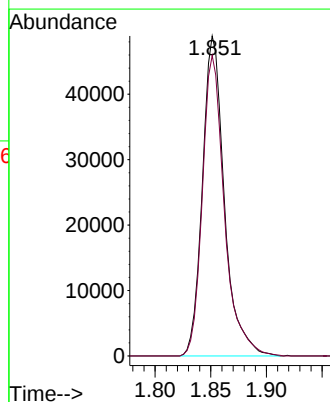
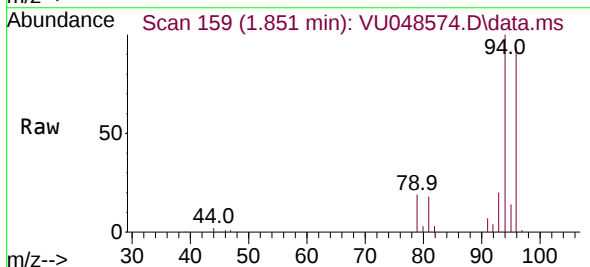
Instrument :  
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 ClientSampleId :  
 VSTD050127

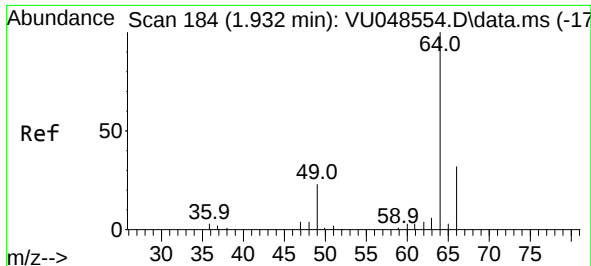
Tgt Ion: 62 Resp: 93458  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 23.2 43.0



#6  
 Bromomethane  
 Concen: 50.909 ug/L  
 RT: 1.851 min Scan# 159  
 Delta R.T. -0.000 min  
 Lab File: VU048574.D  
 Acq: 13 May 2022 20:00

Tgt Ion: 94 Resp: 67104  
 Ion Ratio Lower Upper  
 94 100  
 96 93.9 66.5 123.5

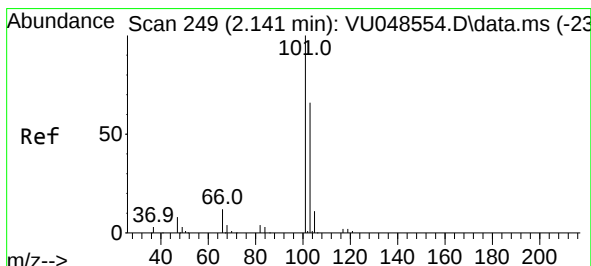
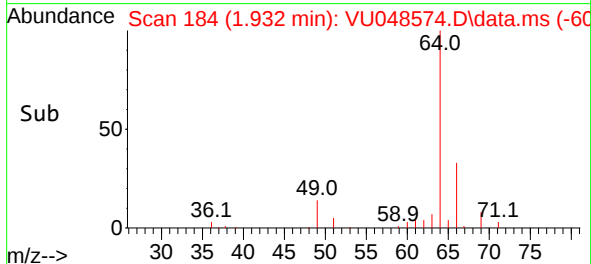
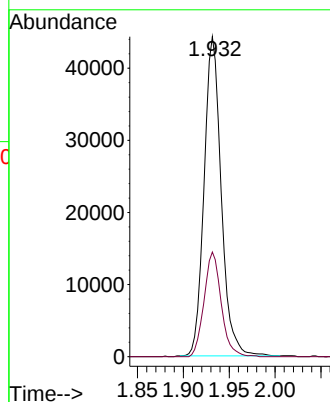
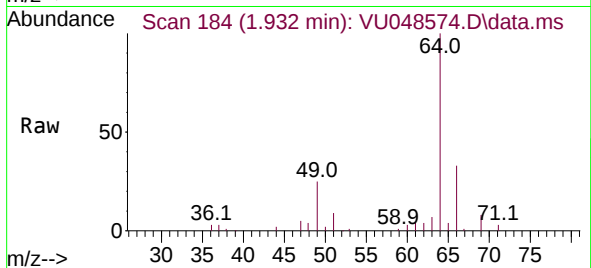




#8  
Chloroethane  
Concen: 40.110 ug/L  
RT: 1.932 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

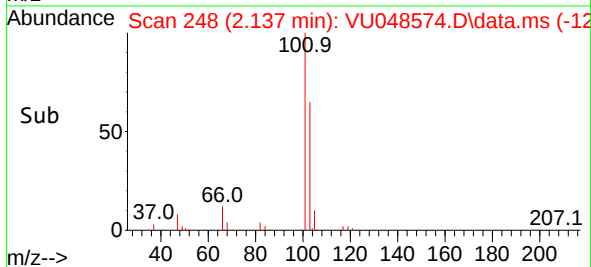
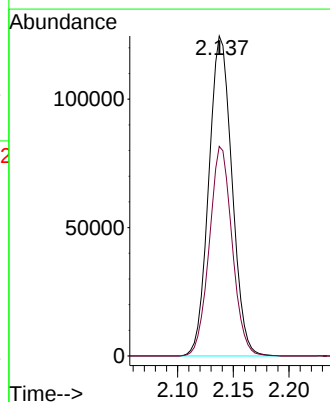
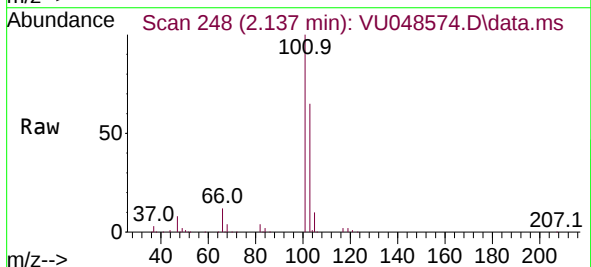
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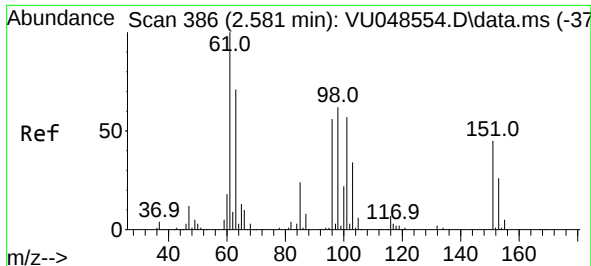
Tgt Ion: 64 Resp: 57478  
Ion Ratio Lower Upper  
64 100  
66 32.7 22.8 42.4



#9  
Trichlorofluoromethane  
Concen: 51.538 ug/L  
RT: 2.137 min Scan# 248  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:101 Resp: 180485  
Ion Ratio Lower Upper  
101 100  
103 64.4 52.0 78.0

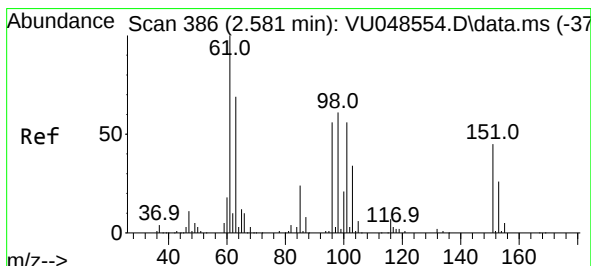
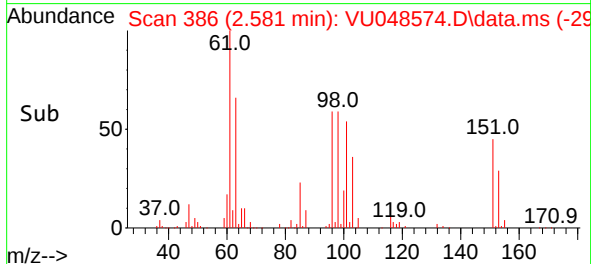
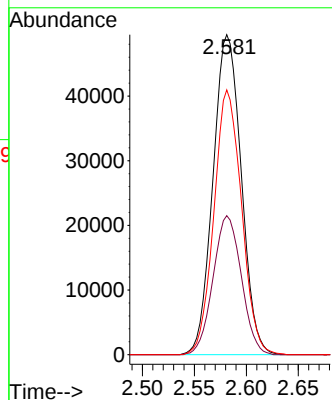
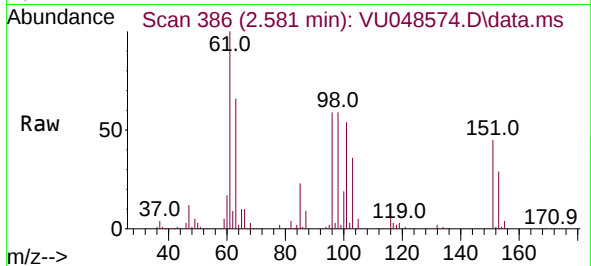




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 46.586 ug/L  
 RT: 2.581 min Scan# 386  
 Delta R.T. -0.000 min  
 Lab File: VU048574.D  
 Acq: 13 May 2022 20:00

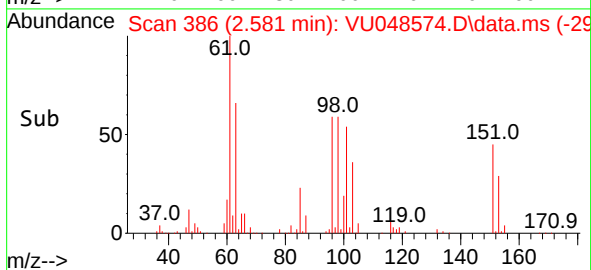
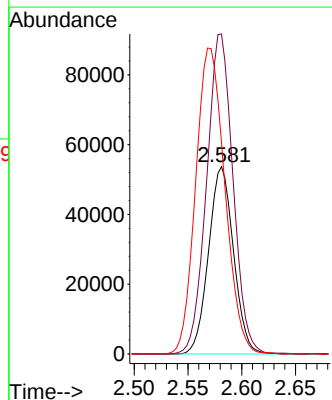
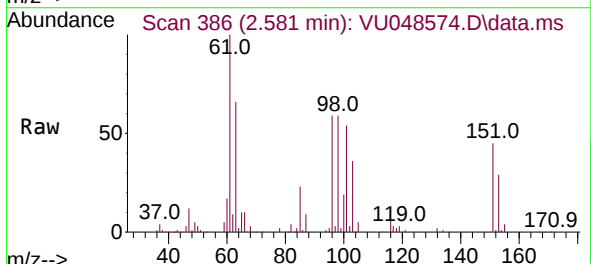
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050127

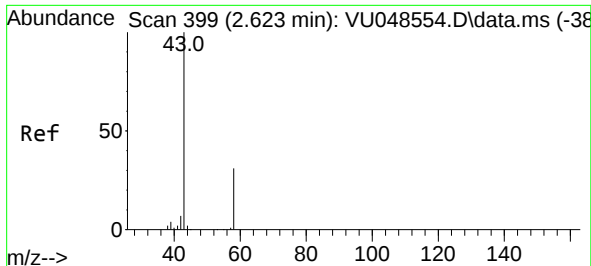
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 Ion Ratio Lower Upper  
 101 100  
 85 43.4 34.8 52.2  
 151 81.0 60.7 91.1



#12  
 1,1-Dichloroethene  
 Concen: 45.632 ug/L  
 RT: 2.581 min Scan# 386  
 Delta R.T. -0.000 min  
 Lab File: VU048574.D  
 Acq: 13 May 2022 20:00

Tgt Ion: 96 Resp: 86704  
 Ion Ratio Lower Upper  
 96 100  
 61 170.8 124.5 231.3  
 63 113.2 92.5 171.9





#13

Acetone

Concen: 73.860 ug/L

RT: 2.623 min Scan# 399

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

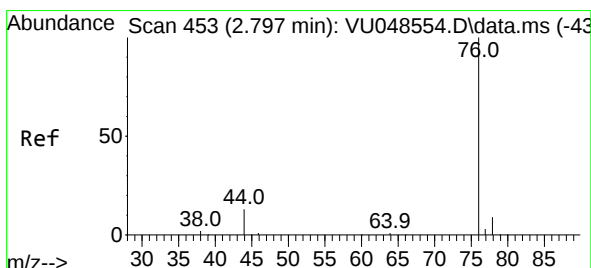
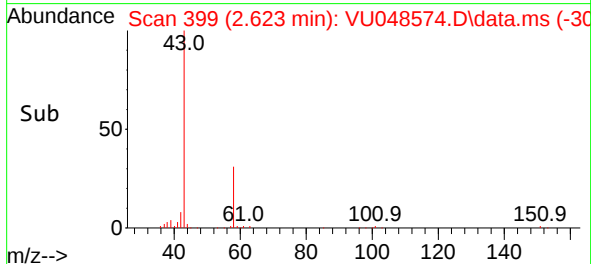
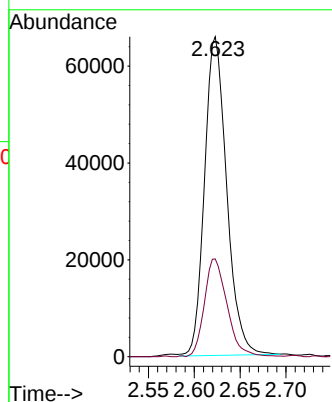
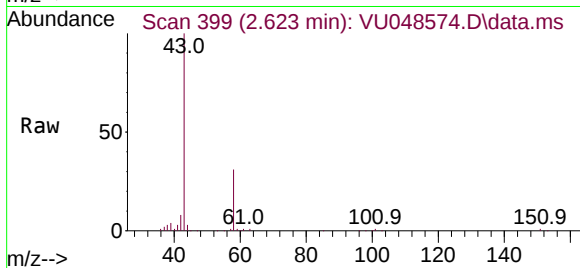
VSTD050127

Tgt Ion: 43 Resp: 110745

Ion Ratio Lower Upper

43 100

58 31.5 0.0 66.2



#14

Carbon disulfide

Concen: 39.509 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.003 min

Lab File: VU048574.D

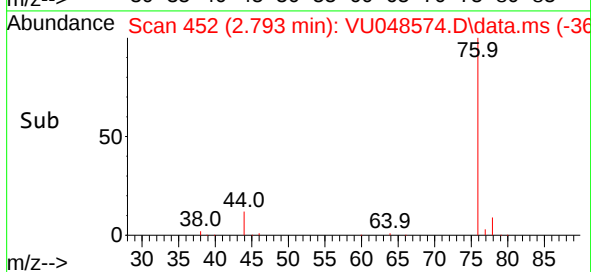
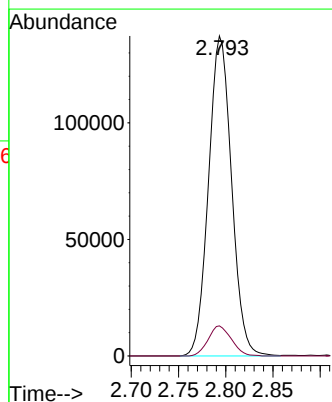
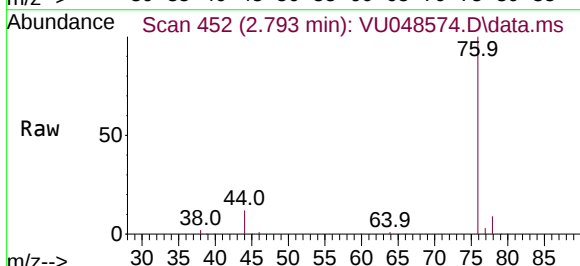
Acq: 13 May 2022 20:00

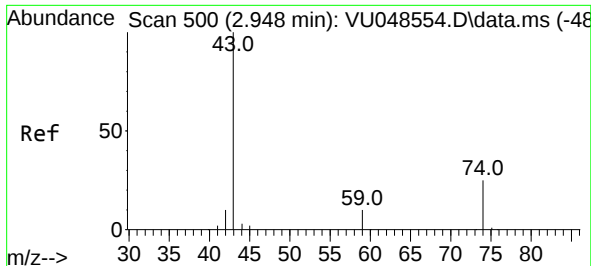
Tgt Ion: 76 Resp: 232680

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9

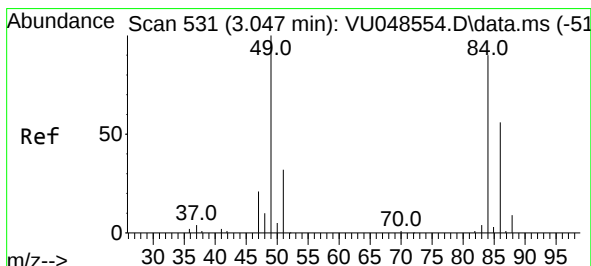
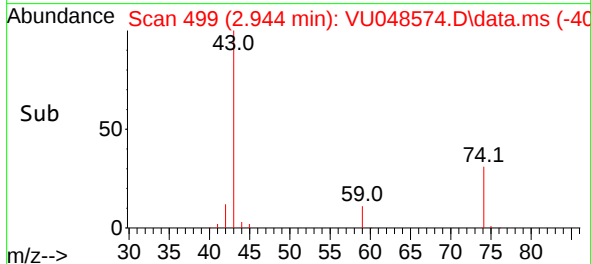
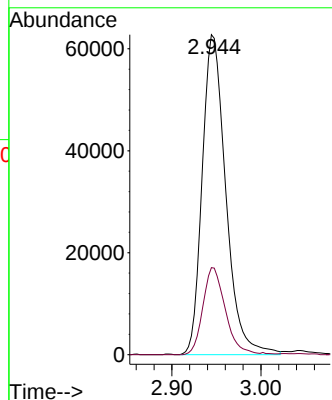
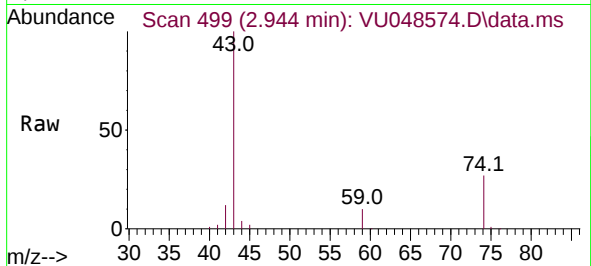




#15  
Methyl Acetate  
Concen: 37.669 ug/L  
RT: 2.944 min Scan# 499  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

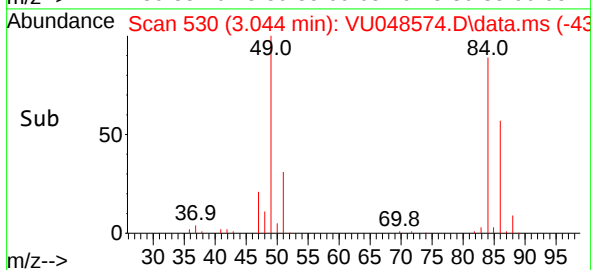
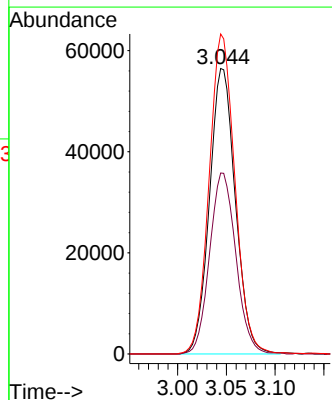
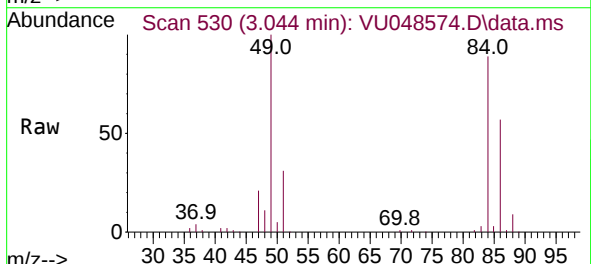
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

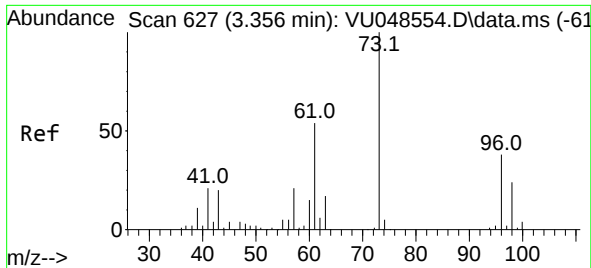
Tgt Ion: 43 Resp: 115708  
Ion Ratio Lower Upper  
43 100  
74 25.8 17.6 26.4



#16  
Methylene chloride  
Concen: 44.965 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion: 84 Resp: 104478  
Ion Ratio Lower Upper  
84 100  
86 63.4 44.8 83.2  
49 112.1 92.0 170.8

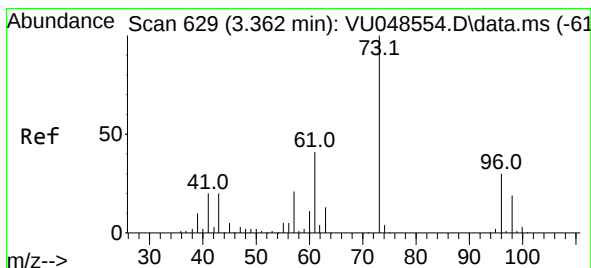
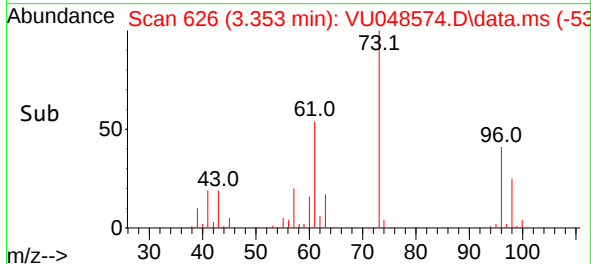
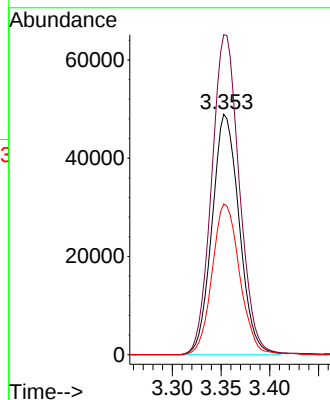
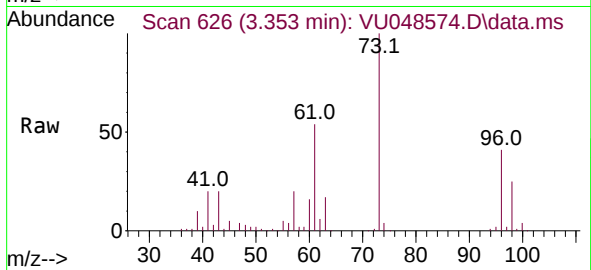




#17  
trans-1,2-Dichloroethene  
Concen: 46.883 ug/L  
RT: 3.353 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

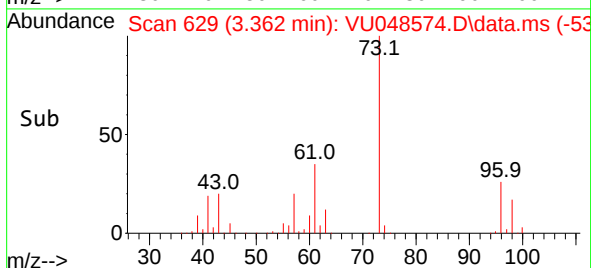
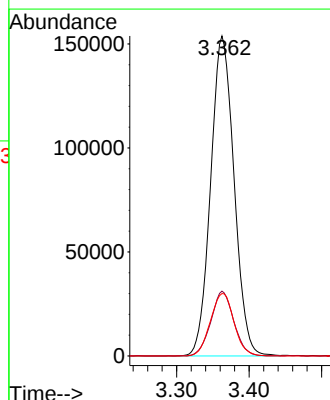
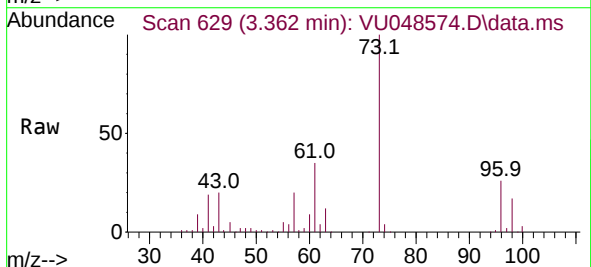
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

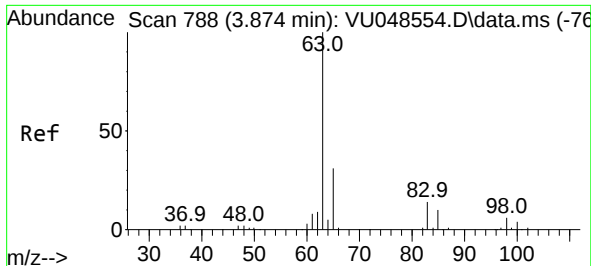
Tgt Ion: 96 Resp: 95038  
Ion Ratio Lower Upper  
96 100  
61 133.0 101.2 187.8  
98 62.6 43.3 80.3



#18  
Methyl tert-butyl Ether  
Concen: 50.530 ug/L  
RT: 3.362 min Scan# 629  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion: 73 Resp: 344952  
Ion Ratio Lower Upper  
73 100  
43 19.8 15.6 23.4  
57 19.7 18.1 27.1





#19

1,1-Dichloroethane

Concen: 43.797 ug/L

RT: 3.870 min Scan# 788

Delta R.T. -0.003 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050127

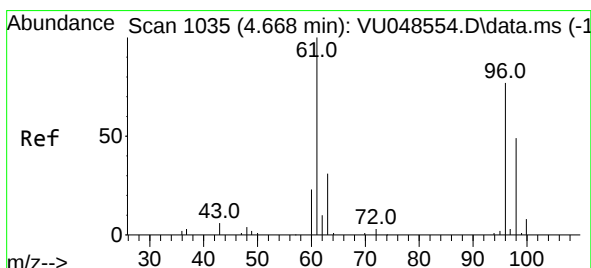
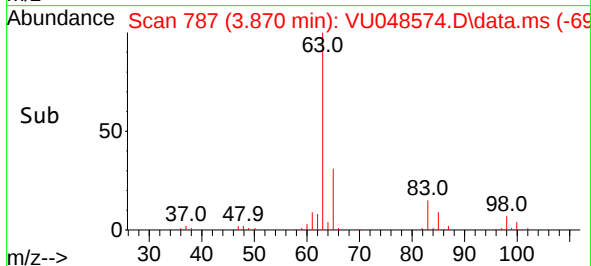
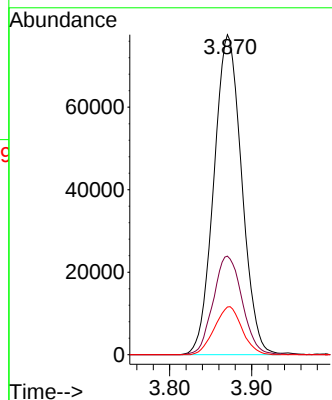
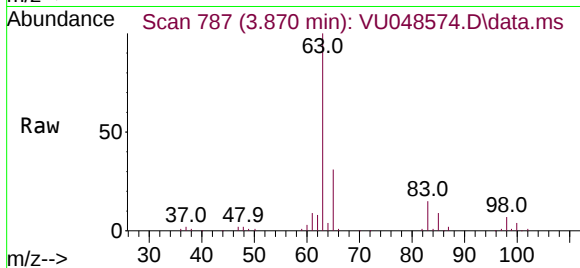
Tgt Ion: 63 Resp: 183067

Ion Ratio Lower Upper

63 100

65 30.8 22.0 41.0

83 14.9 8.5 15.9



#20

cis-1,2-Dichloroethene

Concen: 48.208 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

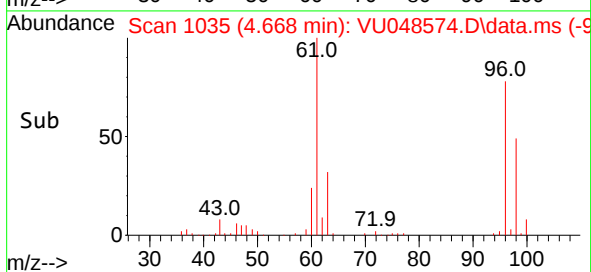
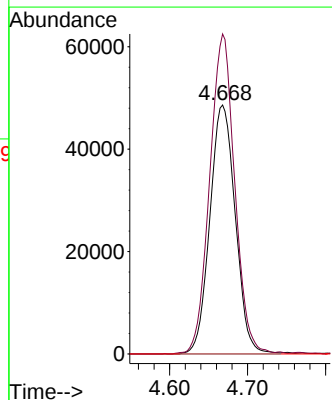
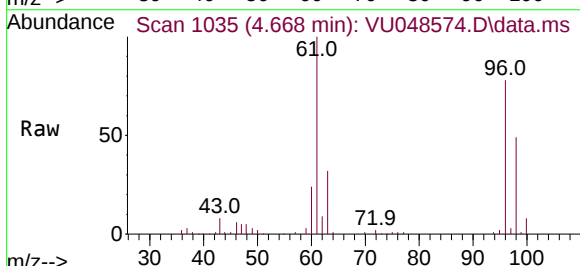
Tgt Ion: 96 Resp: 110275

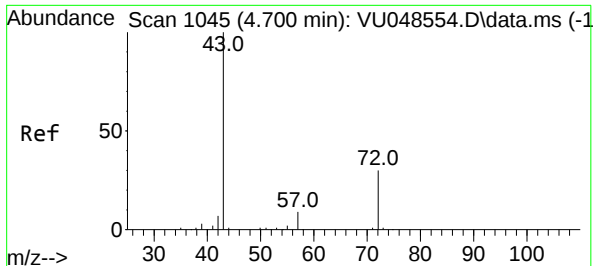
Ion Ratio Lower Upper

96 100

61 128.5 96.2 178.8

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 73.603 ug/L

RT: 4.697 min Scan# 1044

Delta R.T. -0.003 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

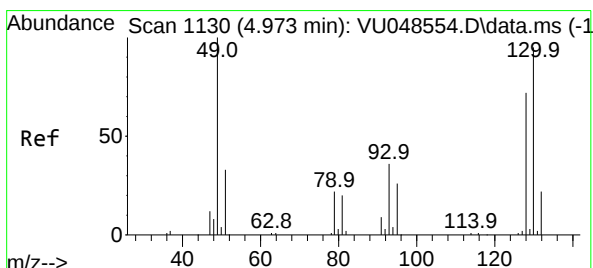
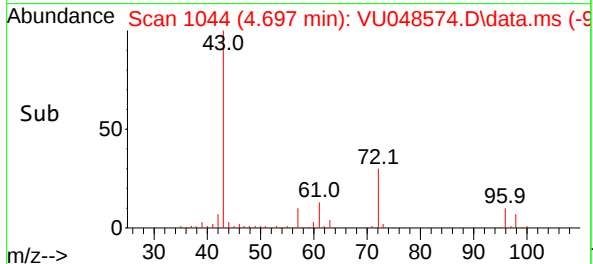
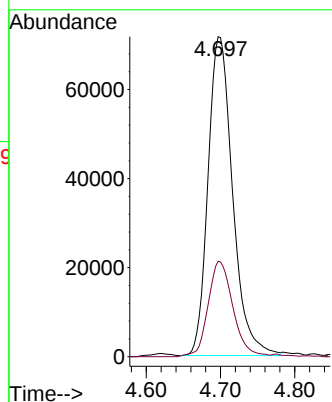
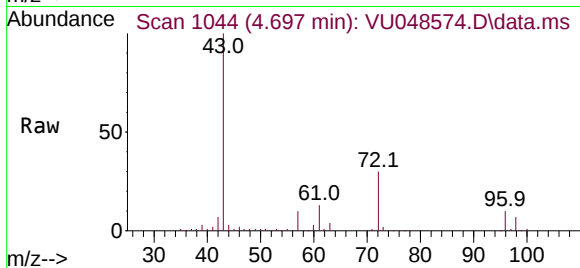
VSTD050127

Tgt Ion: 43 Resp: 164972

Ion Ratio Lower Upper

43 100

72 30.1 13.3 39.9



#23

Bromochloromethane

Concen: 50.965 ug/L

RT: 4.973 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Tgt Ion:128 Resp: 61439

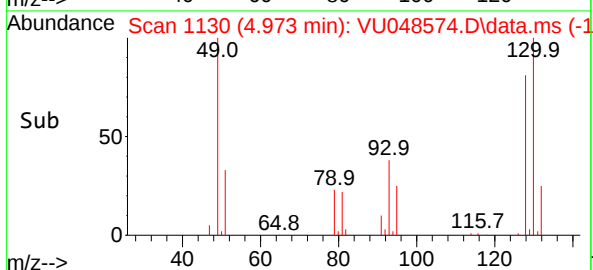
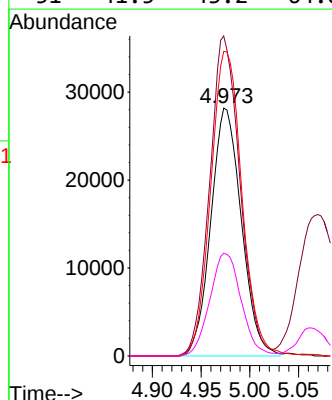
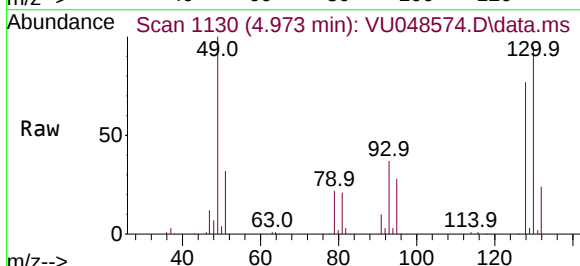
Ion Ratio Lower Upper

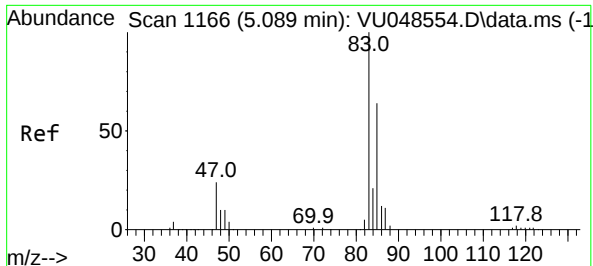
128 100

49 129.1 123.1 228.7

130 122.9 93.6 173.8

51 41.5 43.2 64.8#





#25

Chloroform

Concen: 50.472 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

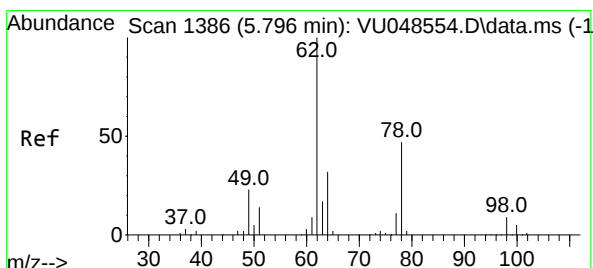
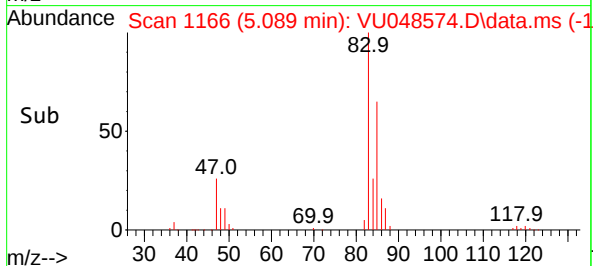
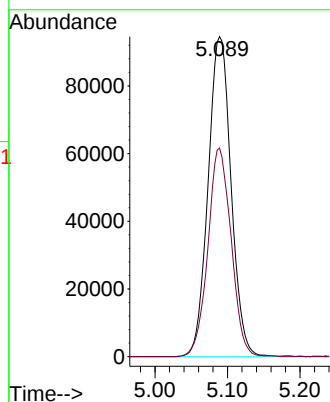
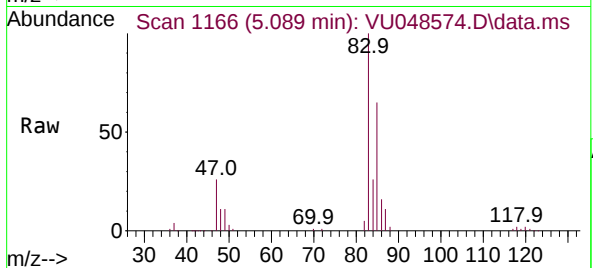
VSTD050127

Tgt Ion: 83 Resp: 208324

Ion Ratio Lower Upper

83 100

85 65.2 45.4 84.2



#27

1,2-Dichloroethane

Concen: 53.054 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. -0.003 min

Lab File: VU048574.D

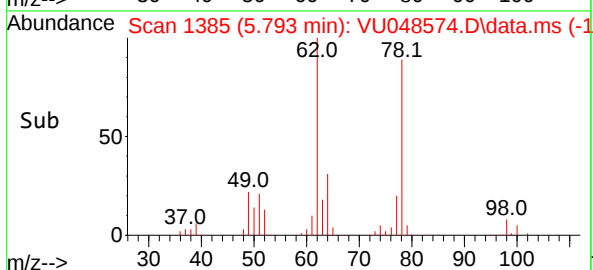
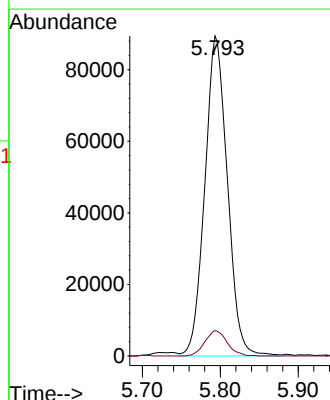
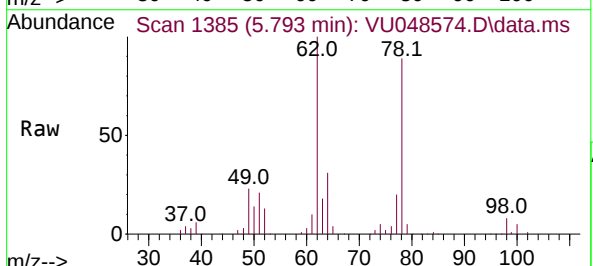
Acq: 13 May 2022 20:00

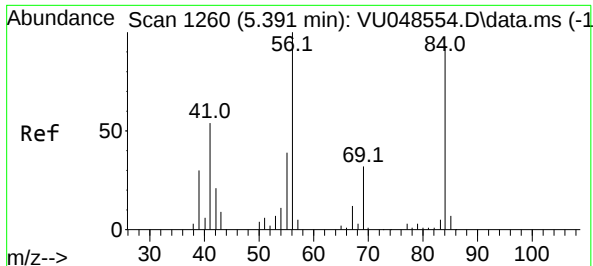
Tgt Ion: 62 Resp: 180043

Ion Ratio Lower Upper

62 100

98 7.9 6.8 10.2





#29

Cyclohexane

Concen: 38.103 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050127

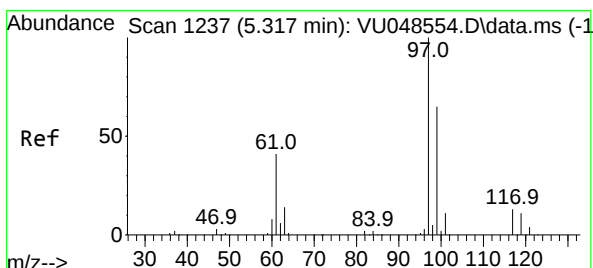
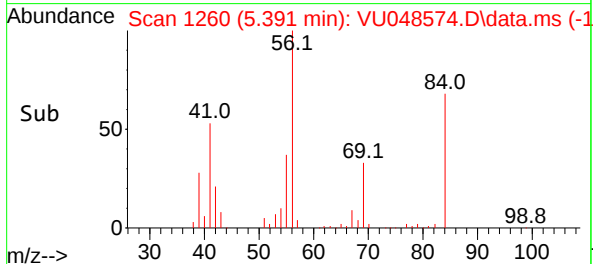
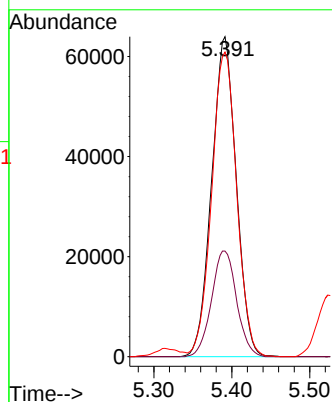
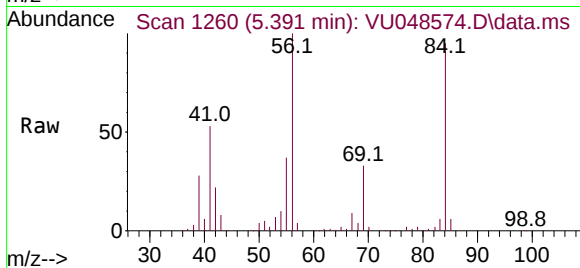
Tgt Ion: 56 Resp: 140266

Ion Ratio Lower Upper

56 100

69 33.7 23.4 35.0

84 96.5 65.5 98.3



#30

1,1,1-Trichloroethane

Concen: 54.285 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

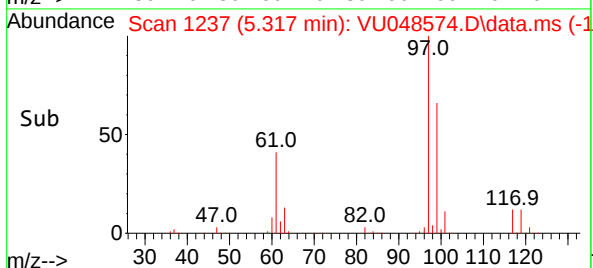
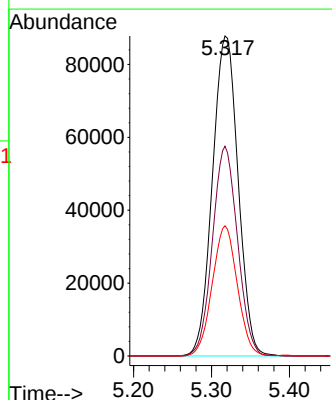
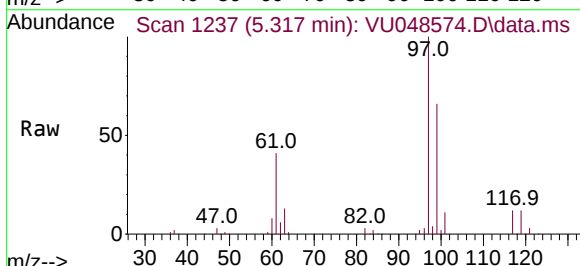
Tgt Ion: 97 Resp: 201114

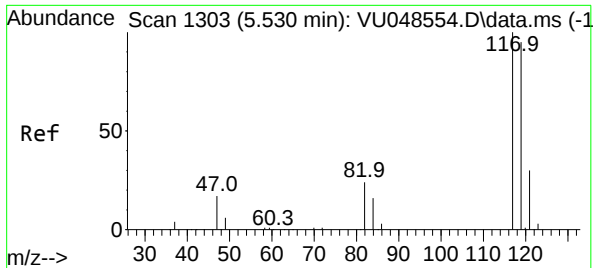
Ion Ratio Lower Upper

97 100

99 64.1 50.5 75.7

61 39.7 35.0 52.4

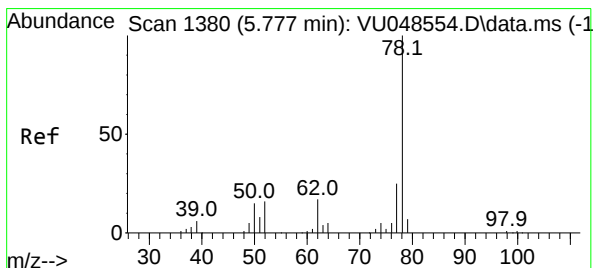
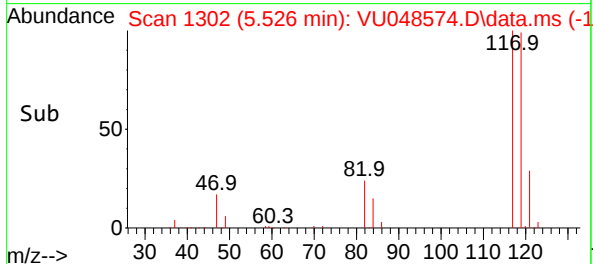
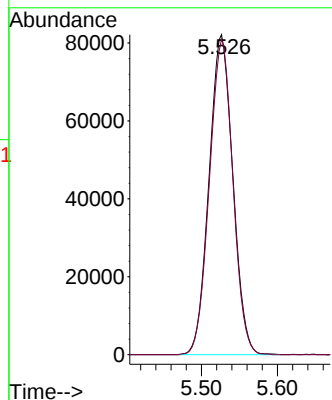
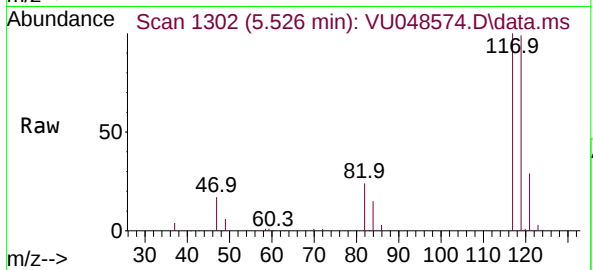




#31  
Carbon tetrachloride  
Concen: 56.244 ug/L  
RT: 5.526 min Scan# 117  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

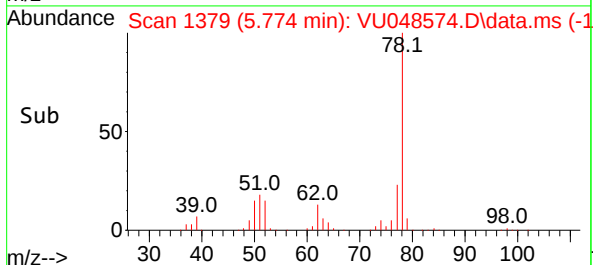
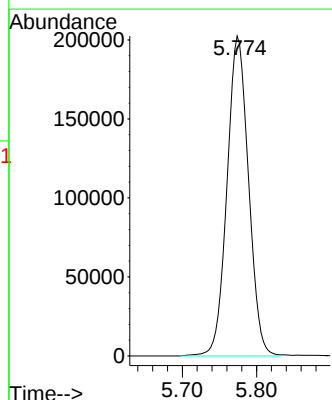
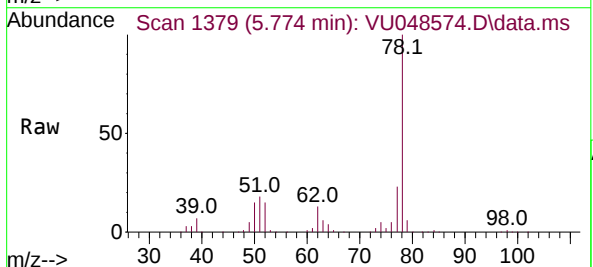
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

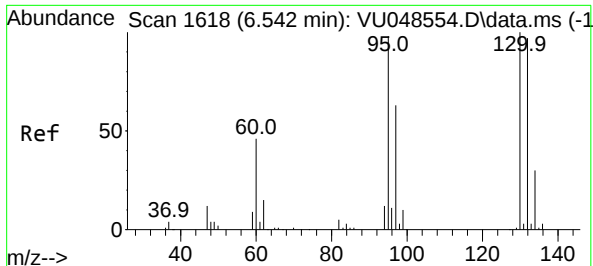
Tgt Ion:117 Resp: 178424  
Ion Ratio Lower Upper  
117 100  
119 97.1 76.5 114.7



#33  
Benzene  
Concen: 44.331 ug/L  
RT: 5.774 min Scan# 1379  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion: 78 Resp: 407188

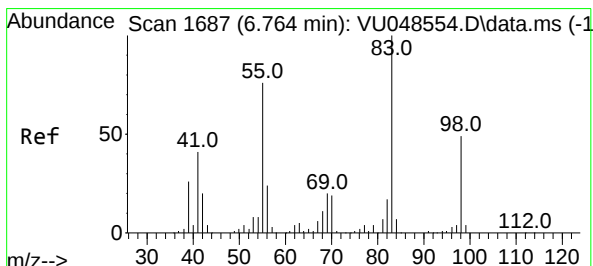
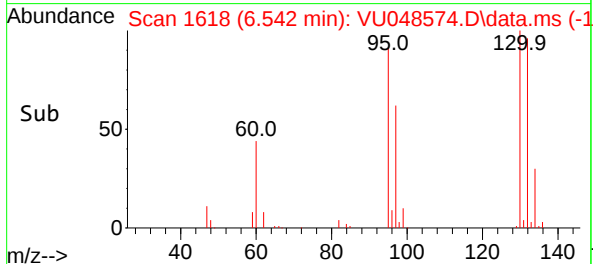
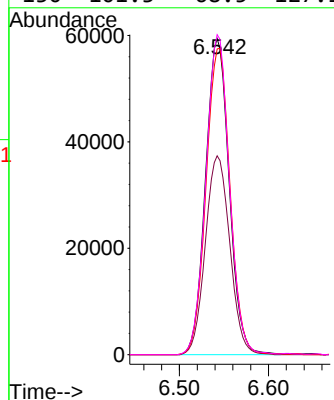
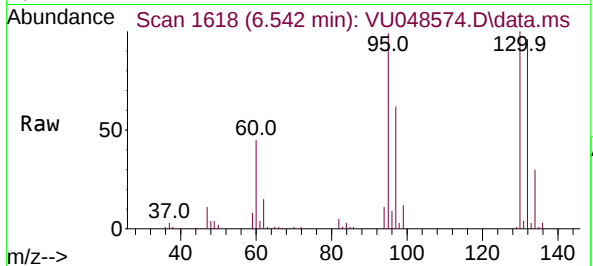




#34  
Trichloroethene  
Concen: 48.523 ug/L  
RT: 6.542 min Scan# 1618  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

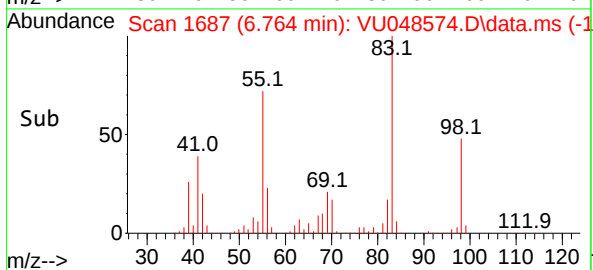
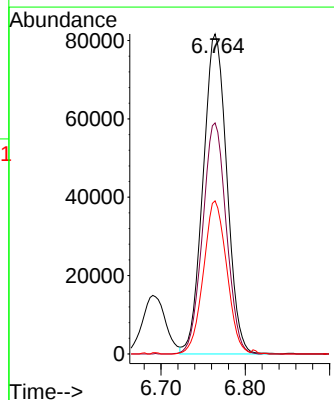
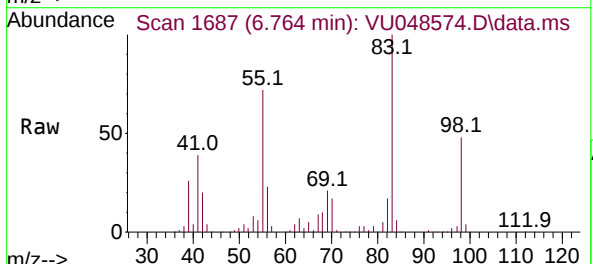
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

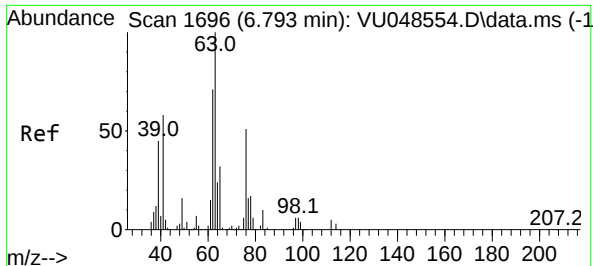
Tgt Ion: 95 Resp: 109556  
Ion Ratio Lower Upper  
95 100  
97 62.9 46.6 86.6  
132 96.8 67.3 124.9  
130 101.3 68.5 127.1



#35  
Methylcyclohexane  
Concen: 44.546 ug/L  
RT: 6.764 min Scan# 1687  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion: 83 Resp: 160470  
Ion Ratio Lower Upper  
83 100  
55 71.8 63.4 95.2  
98 46.8 35.9 53.9





#37

1,2-Dichloropropane

Concen: 39.644 ug/L

RT: 6.790 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

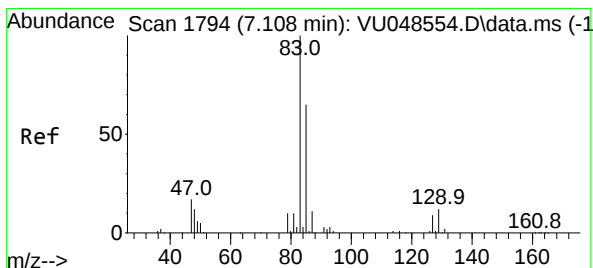
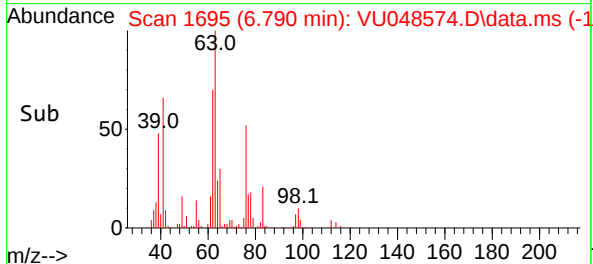
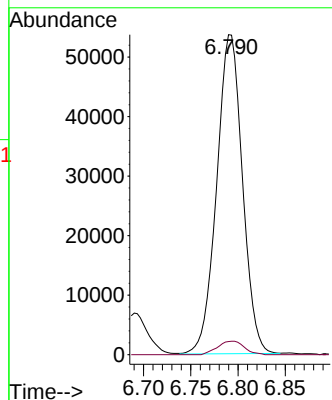
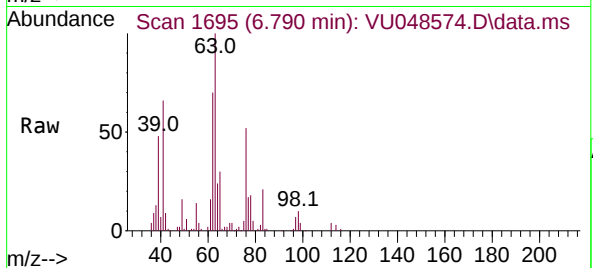
VSTD050127

Tgt Ion: 63 Resp: 101633

Ion Ratio Lower Upper

63 100

112 4.4 3.1 4.7



#38

Bromodichloromethane

Concen: 51.173 ug/L

RT: 7.105 min Scan# 1793

Delta R.T. -0.003 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

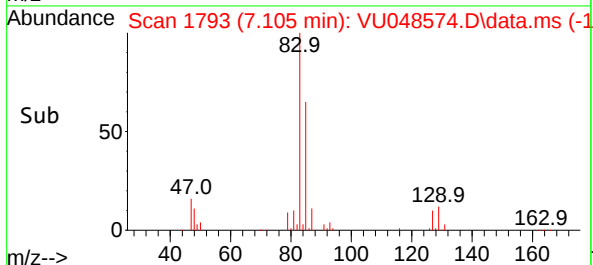
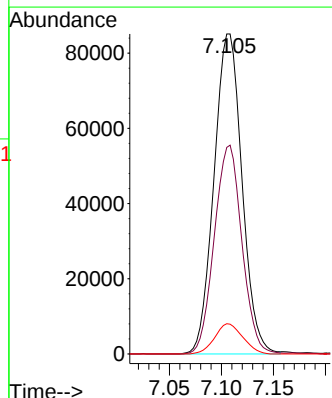
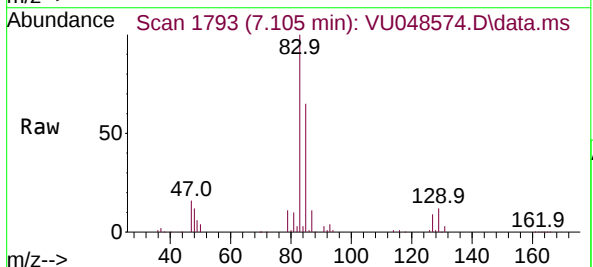
Tgt Ion: 83 Resp: 159736

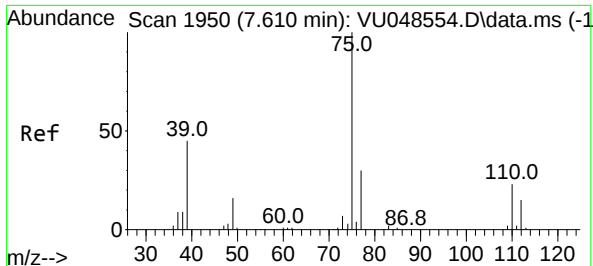
Ion Ratio Lower Upper

83 100

85 64.5 45.5 84.5

127 9.5 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 45.949 ug/L

RT: 7.607 min Scan# 1950

Delta R.T. -0.003 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

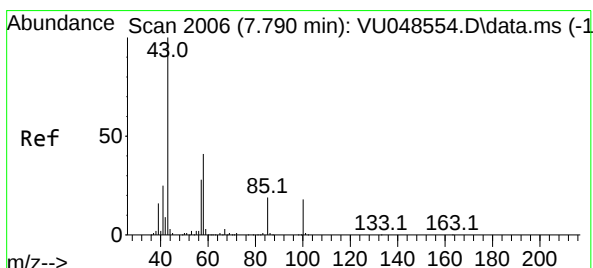
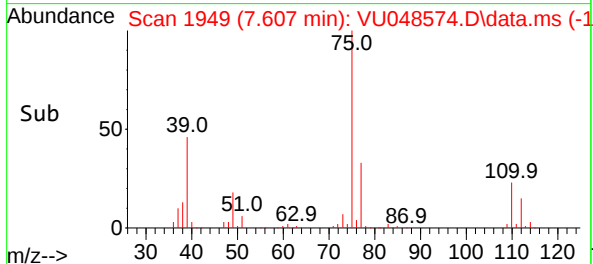
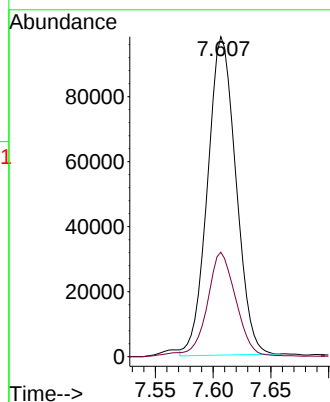
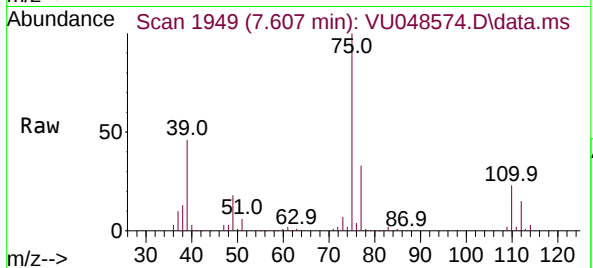
VSTD050127

Tgt Ion: 75 Resp: 167547

Ion Ratio Lower Upper

75 100

77 32.7 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 75.649 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

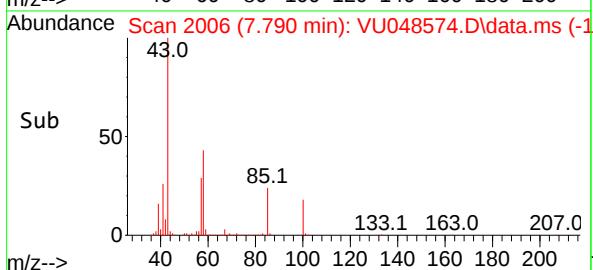
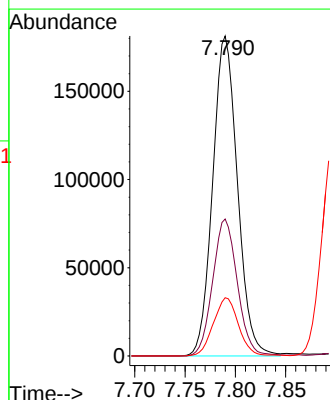
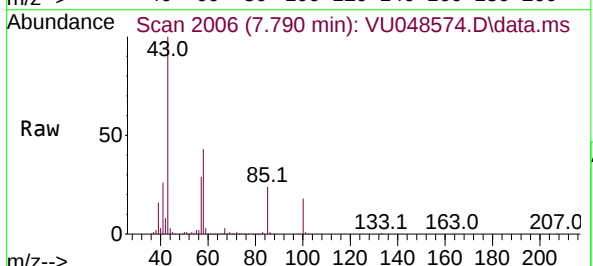
Tgt Ion: 43 Resp: 310735

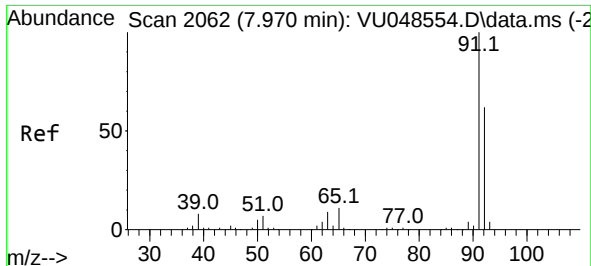
Ion Ratio Lower Upper

43 100

58 42.6 31.0 46.4

100 18.4 11.2 16.8#





#42

Toluene

Concen: 47.743 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

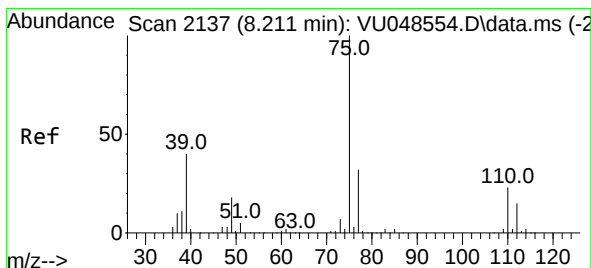
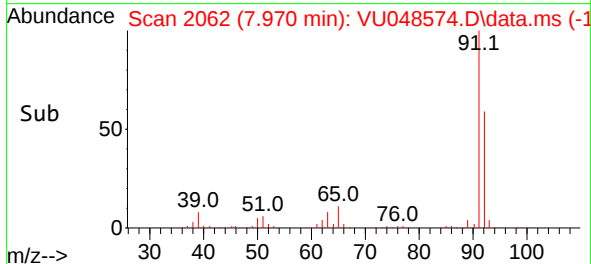
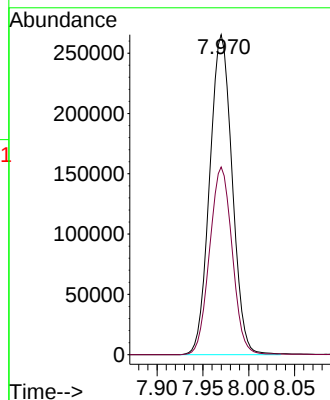
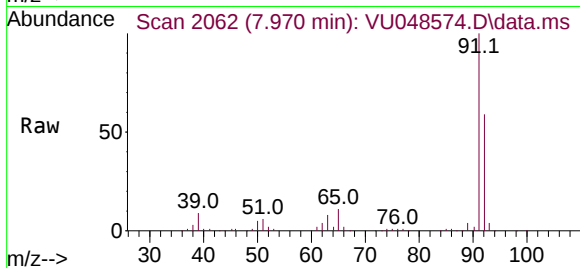
VSTD050127

Tgt Ion: 91 Resp: 452602

Ion Ratio Lower Upper

91 100

92 58.6 41.7 77.5



#44

trans-1,3-Dichloropropene

Concen: 50.293 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. -0.000 min

Lab File: VU048574.D

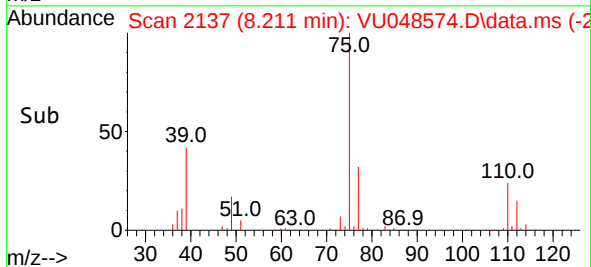
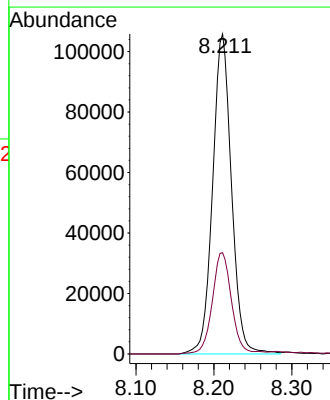
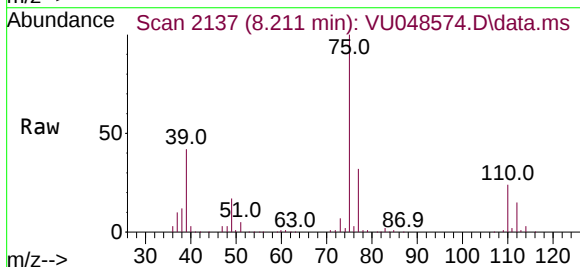
Acq: 13 May 2022 20:00

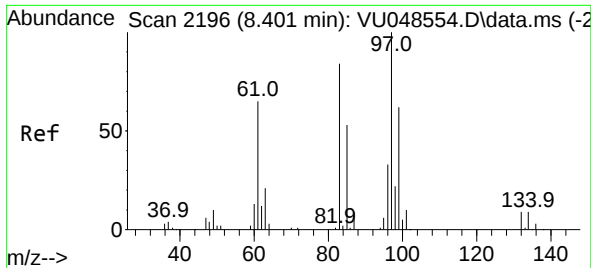
Tgt Ion: 75 Resp: 178214

Ion Ratio Lower Upper

75 100

77 31.7 22.6 42.0



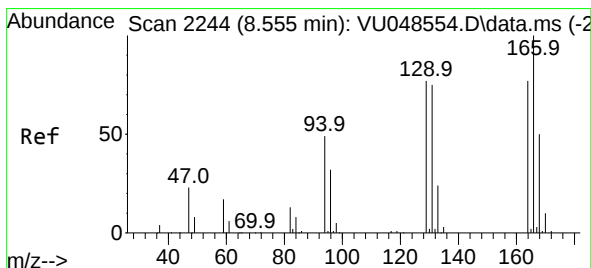
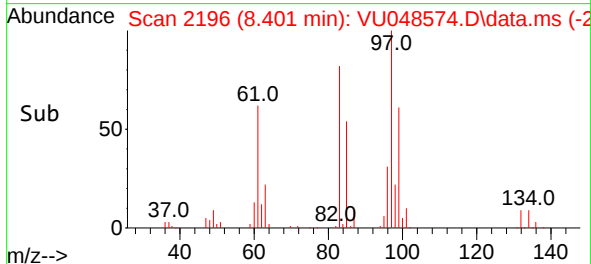
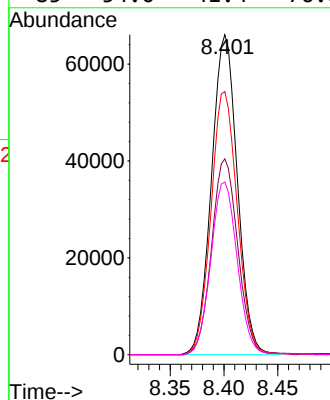
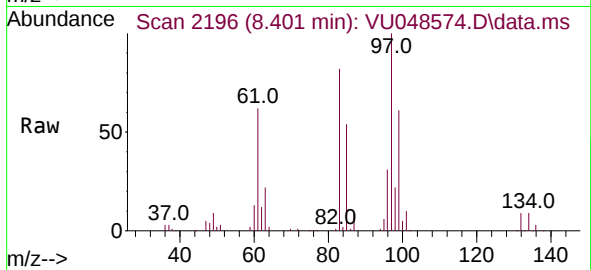


#45  
1,1,2-Trichloroethane  
Concen: 47.758 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

Tgt Ion: 97 Resp: 110721

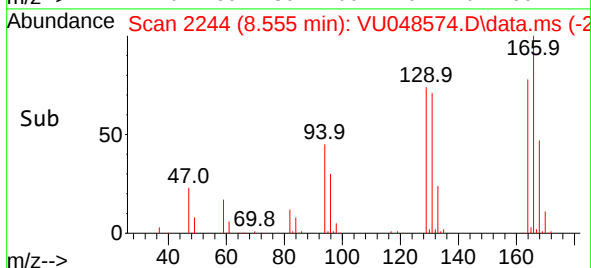
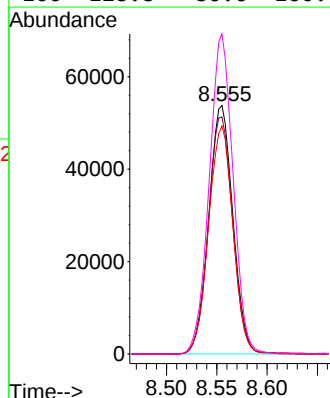
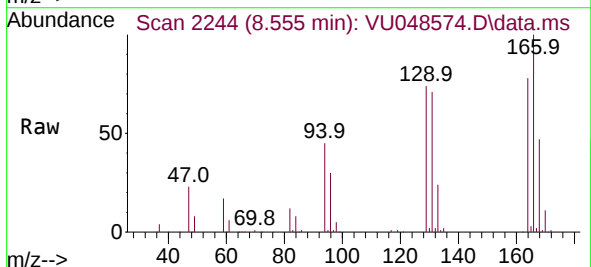
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.2  | 43.5  | 80.9  |
| 83  | 82.2  | 60.5  | 112.5 |
| 85  | 54.0  | 41.4  | 76.8  |

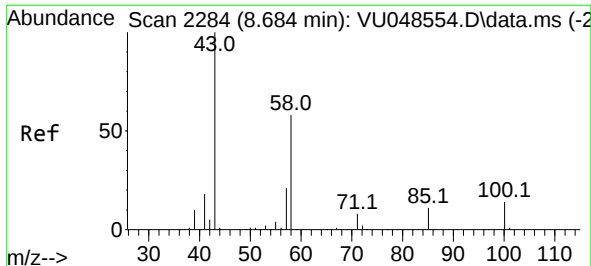


#46  
Tetrachloroethene  
Concen: 53.073 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion: 164 Resp: 90020

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 95.4  | 69.2  | 128.6 |
| 131 | 91.7  | 65.2  | 121.0 |
| 166 | 128.8 | 86.6  | 160.8 |

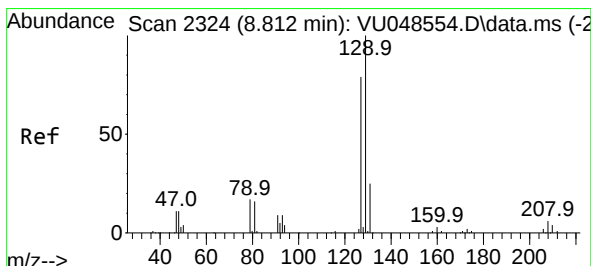
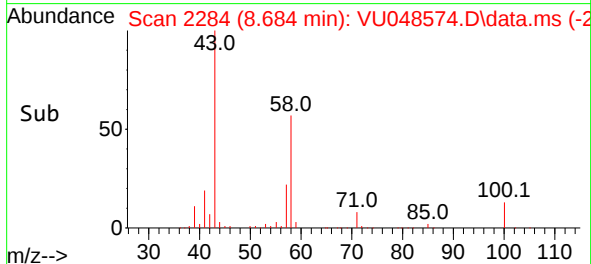
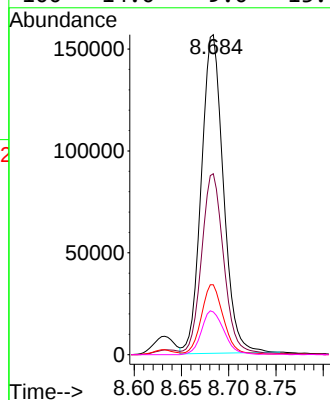
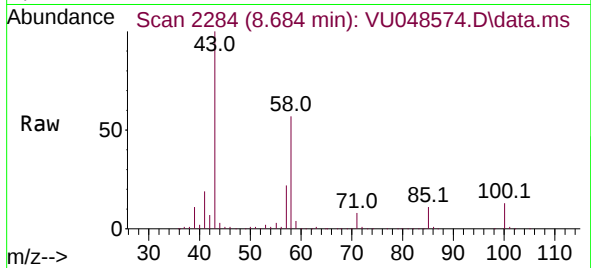




#48  
2-Hexanone  
Concen: 74.233 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

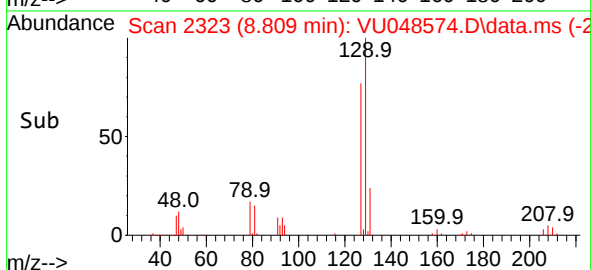
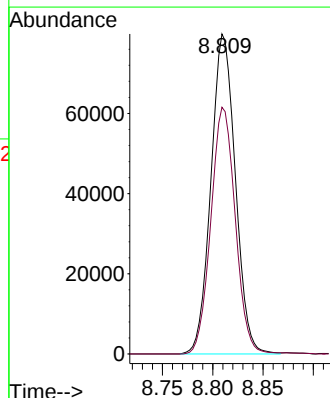
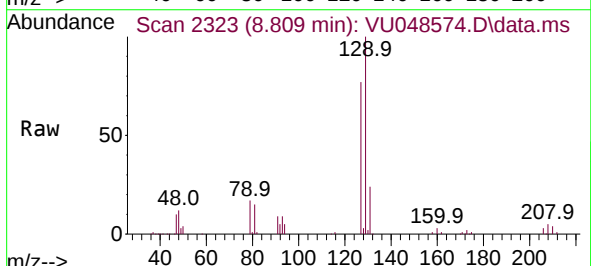
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

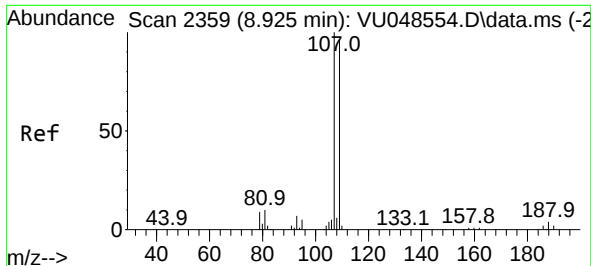
Tgt Ion: 43 Resp: 253408  
Ion Ratio Lower Upper  
43 100  
58 57.1 44.3 66.5  
57 22.0 15.7 23.5  
100 14.0 9.0 13.4#



#49  
Dibromochloromethane  
Concen: 54.122 ug/L  
RT: 8.809 min Scan# 2323  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:129 Resp: 134750  
Ion Ratio Lower Upper  
129 100  
127 77.1 55.2 102.4

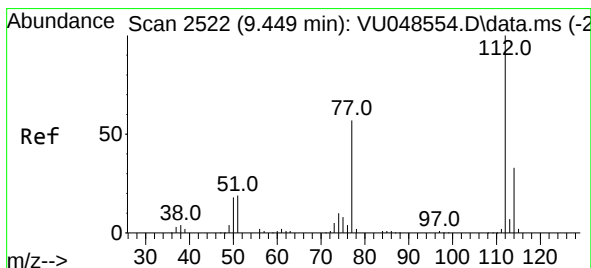
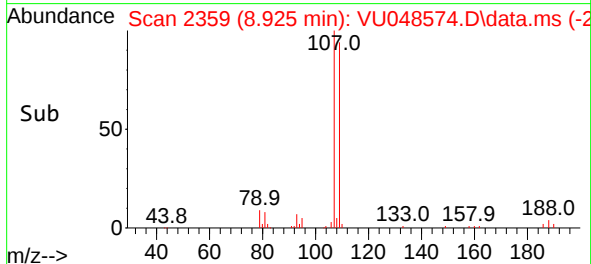
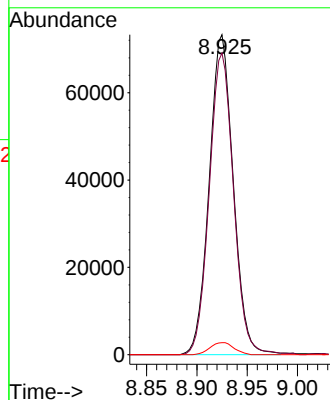
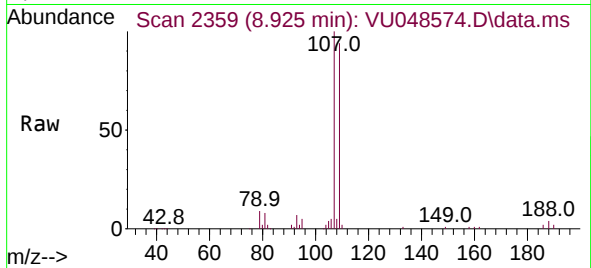




#50  
1,2-Dibromoethane  
Concen: 49.757 ug/L  
RT: 8.925 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

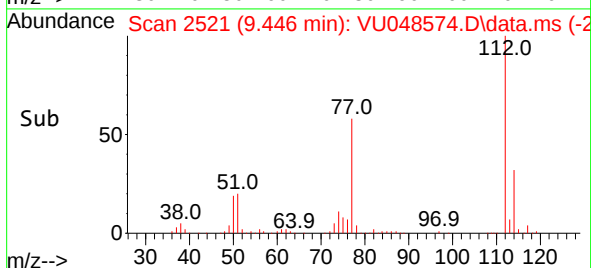
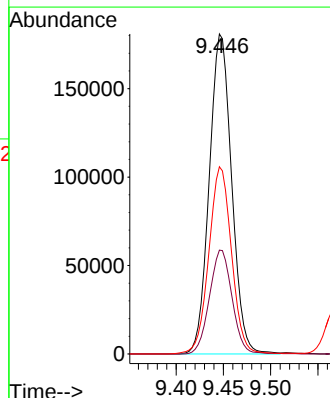
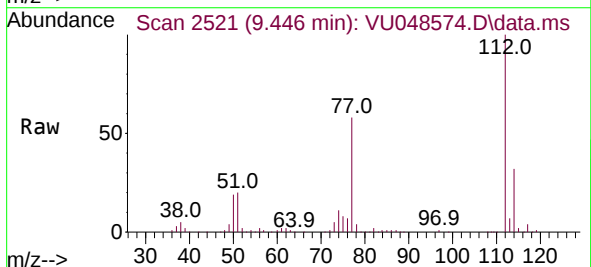
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

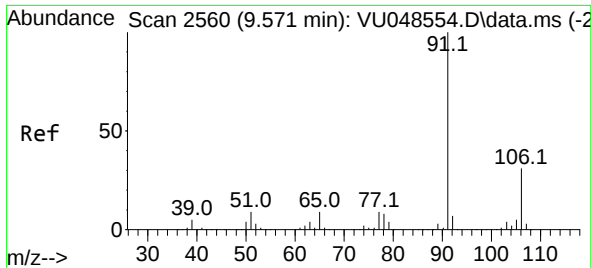
Tgt Ion:107 Resp: 121939  
Ion Ratio Lower Upper  
107 100  
109 94.3 65.7 122.1  
188 3.7 2.9 4.3



#51  
Chlorobenzene  
Concen: 49.931 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:112 Resp: 298245  
Ion Ratio Lower Upper  
112 100  
114 32.5 23.0 42.6  
77 58.5 48.4 72.6

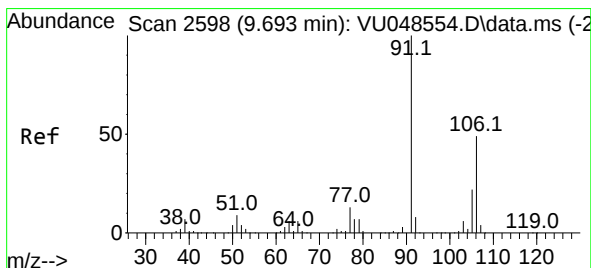
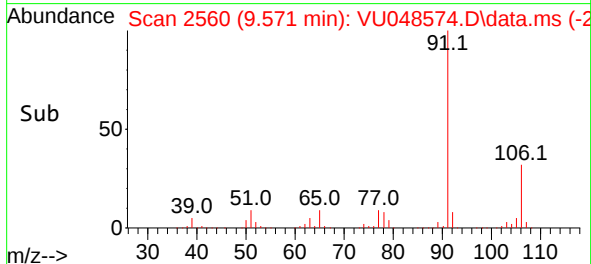
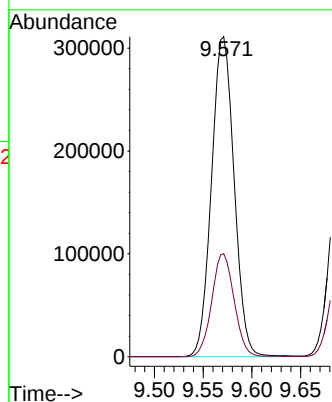
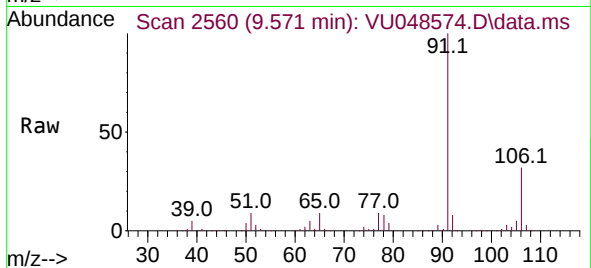




#52  
Ethylbenzene  
Concen: 50.924 ug/L  
RT: 9.571 min Scan# 2560  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

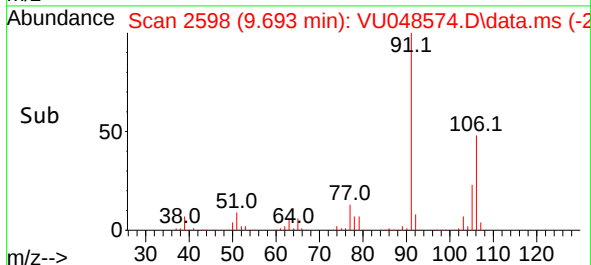
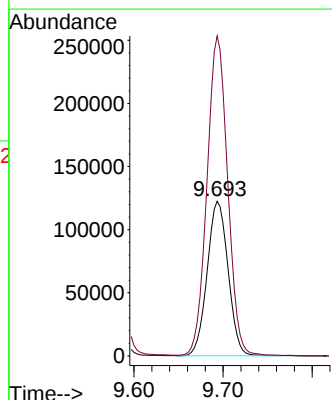
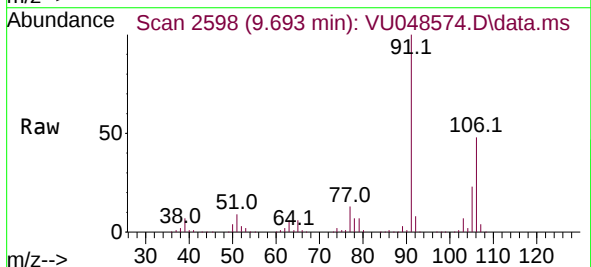
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

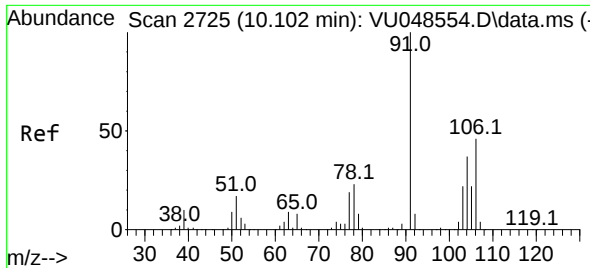
Tgt Ion: 91 Resp: 502891  
Ion Ratio Lower Upper  
91 100  
106 32.2 21.7 40.3



#53  
m,p-Xylene  
Concen: 52.289 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion: 106 Resp: 199317  
Ion Ratio Lower Upper  
106 100  
91 206.9 144.1 267.7

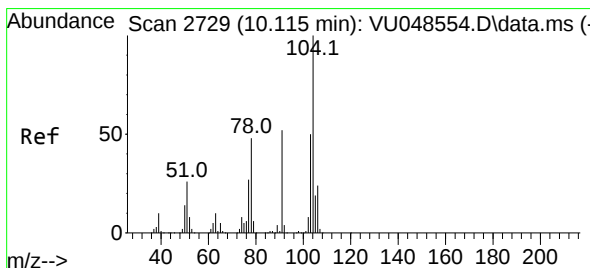
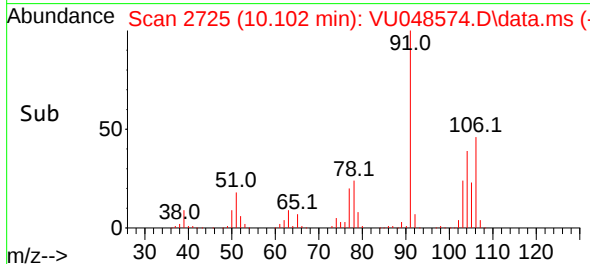
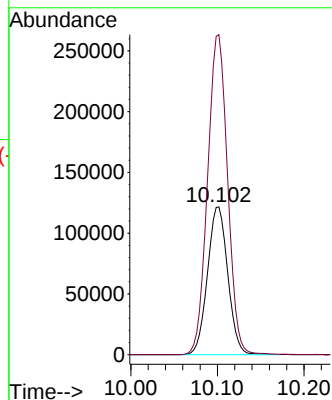
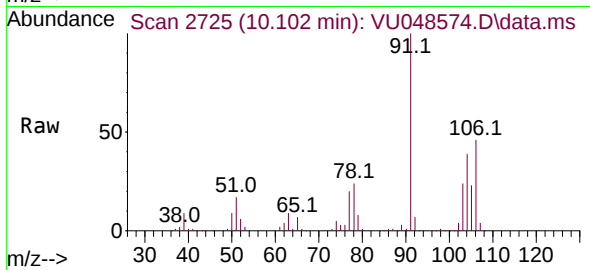




#54  
o-Xylene  
Concen: 51.706 ug/L  
RT: 10.102 min Scan# 2725  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

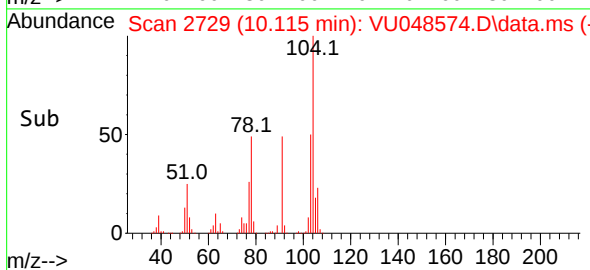
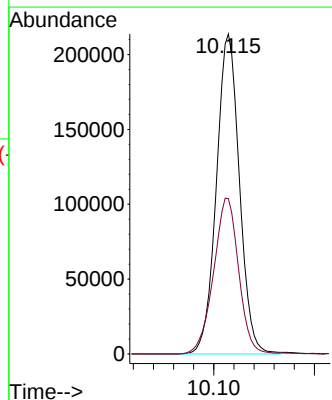
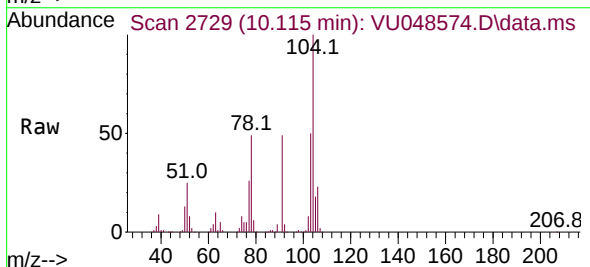
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

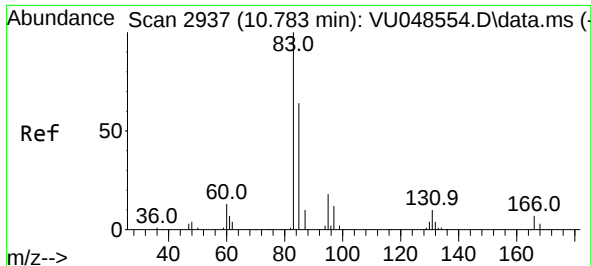
Tgt Ion:106 Resp: 198292  
Ion Ratio Lower Upper  
106 100  
91 216.7 148.8 276.4



#55  
Styrene  
Concen: 54.456 ug/L  
RT: 10.115 min Scan# 2729  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:104 Resp: 339543  
Ion Ratio Lower Upper  
104 100  
78 48.6 33.4 62.0

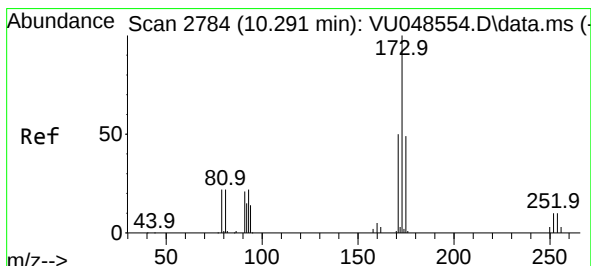
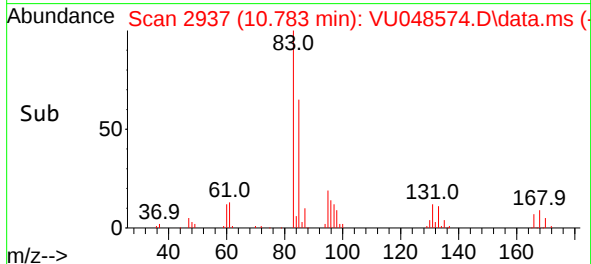
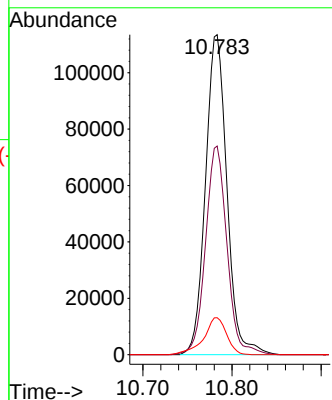
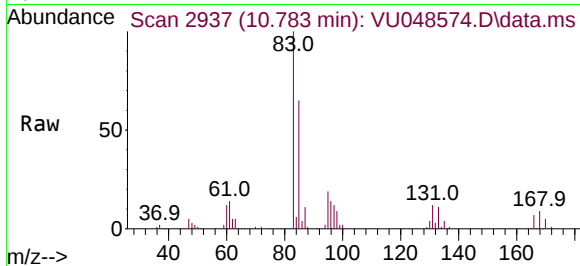




#57  
1,1,2,2-Tetrachloroethane  
Concen: 43.585 ug/L  
RT: 10.783 min Scan# 2937  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

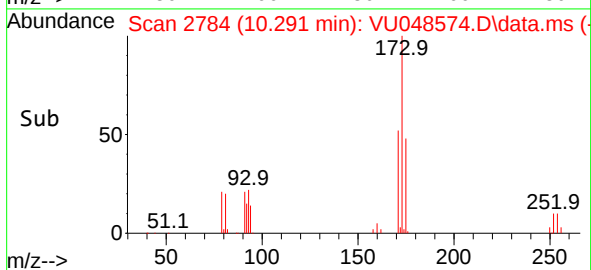
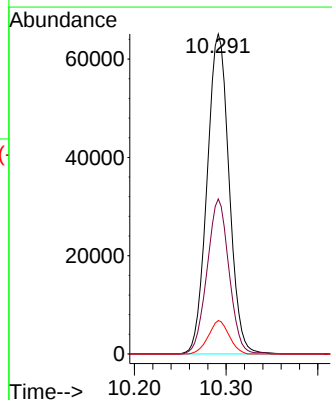
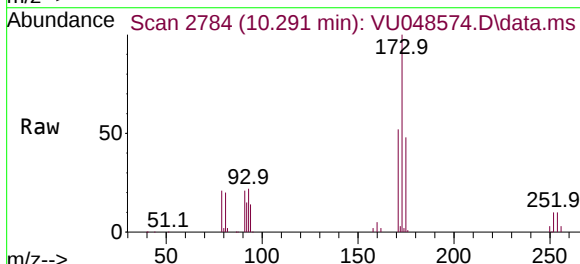
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

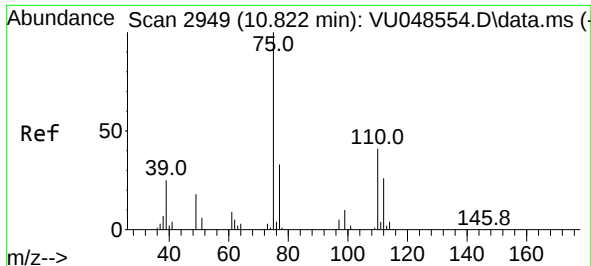
Tgt Ion: 83 Resp: 189385  
Ion Ratio Lower Upper  
83 100  
85 65.2 45.4 84.4  
131 11.6 7.4 11.0#



#59  
Bromoform  
Concen: 49.037 ug/L  
RT: 10.291 min Scan# 2784  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:173 Resp: 108524  
Ion Ratio Lower Upper  
173 100  
175 48.1 39.1 58.7  
254 9.8 7.3 10.9

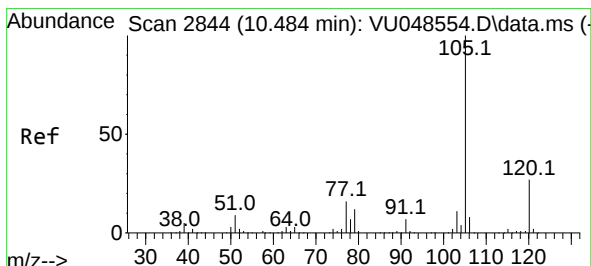
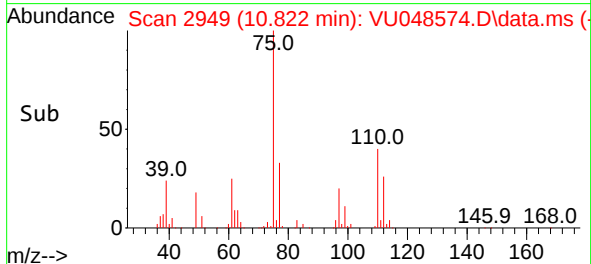
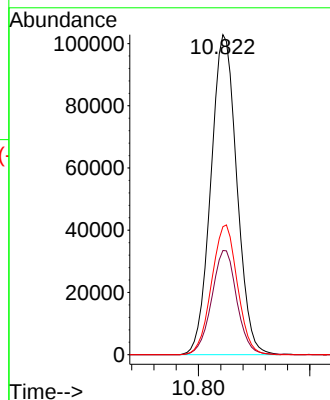
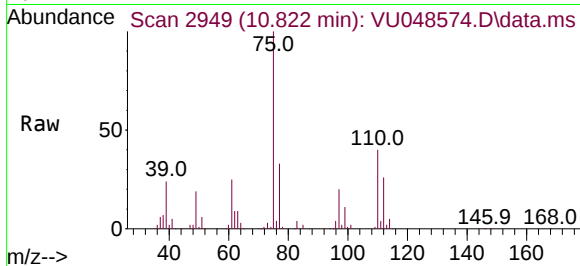




#60  
1,2,3-Trichloropropane  
Concen: 40.823 ug/L  
RT: 10.822 min Scan# 2949  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

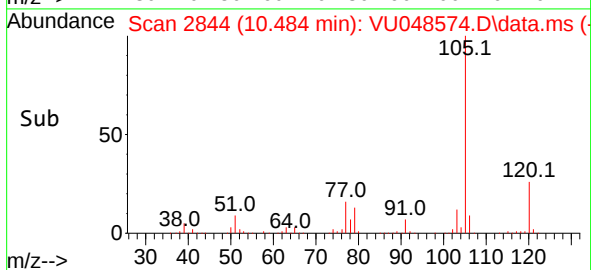
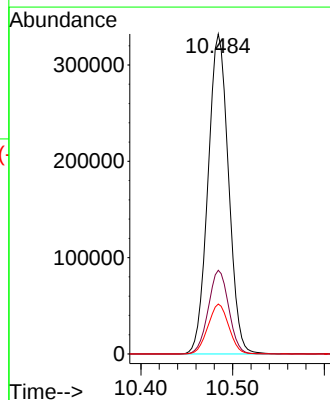
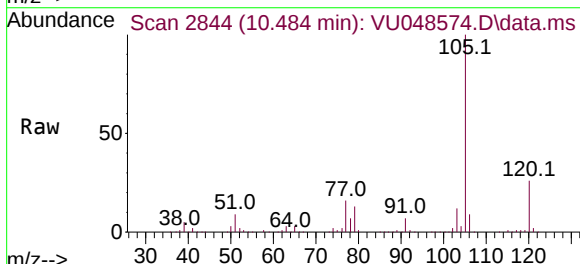
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

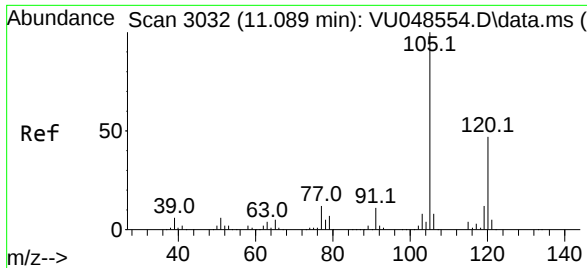
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 166289 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 31.6  | 25.5  | 38.3   |
| 110      | 40.3  | 28.9  | 43.3   |



#61  
Isopropylbenzene  
Concen: 47.207 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 516197 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 26.1  | 21.0  | 31.4   |
| 77       | 15.8  | 12.5  | 18.7   |

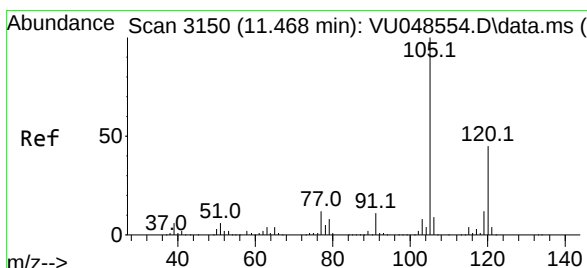
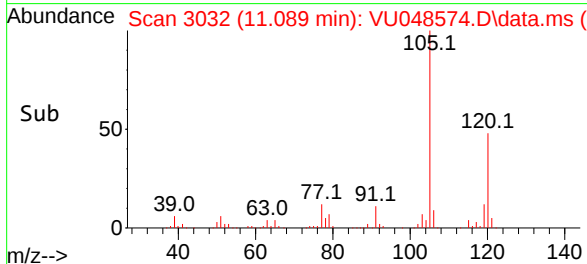
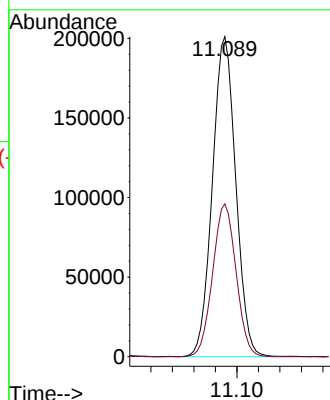
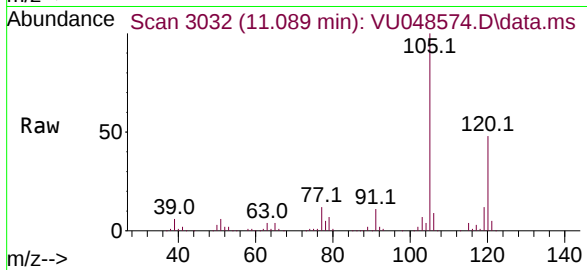




#62  
 1,3,5-Trimethylbenzene  
 Concen: 50.278 ug/L  
 RT: 11.089 min Scan# 3032  
 Delta R.T. -0.000 min  
 Lab File: VU048574.D  
 Acq: 13 May 2022 20:00

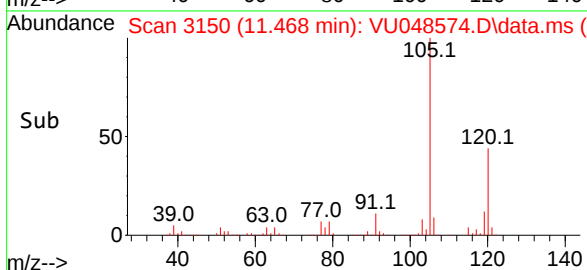
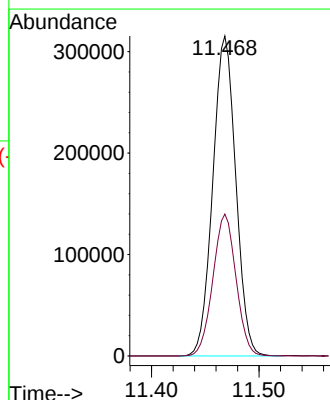
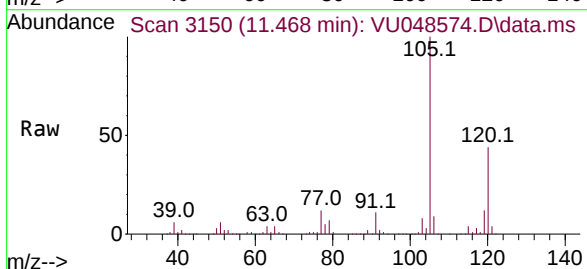
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050127

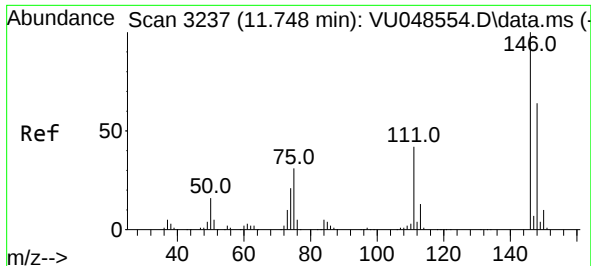
Tgt Ion:105 Resp: 303063  
 Ion Ratio Lower Upper  
 105 100  
 120 47.8 38.5 57.7



#63  
 1,2,4-Trimethylbenzene  
 Concen: 52.215 ug/L  
 RT: 11.468 min Scan# 3150  
 Delta R.T. -0.000 min  
 Lab File: VU048574.D  
 Acq: 13 May 2022 20:00

Tgt Ion:105 Resp: 468735  
 Ion Ratio Lower Upper  
 105 100  
 120 44.5 35.4 53.2

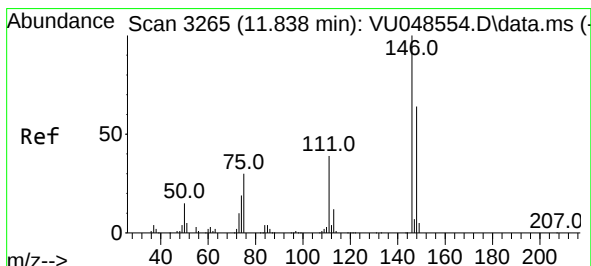
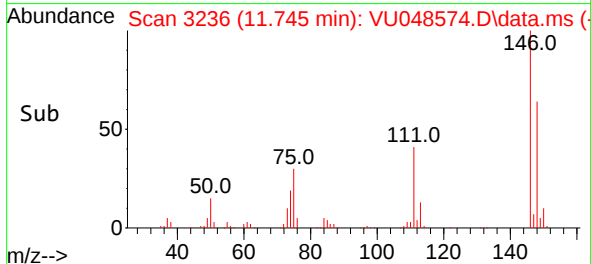
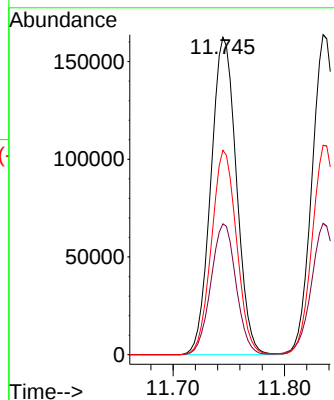
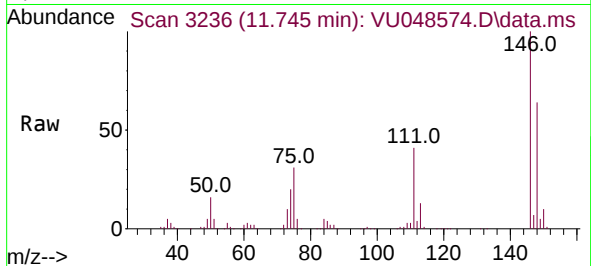




#64  
1,3-Dichlorobenzene  
Concen: 50.138 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

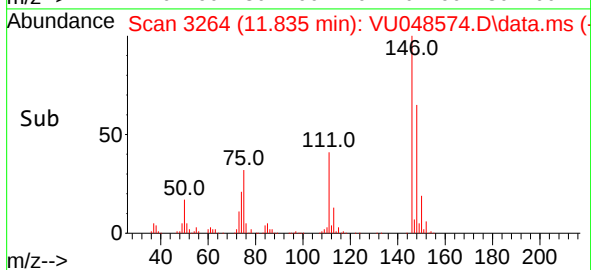
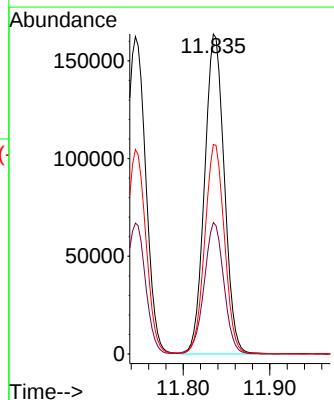
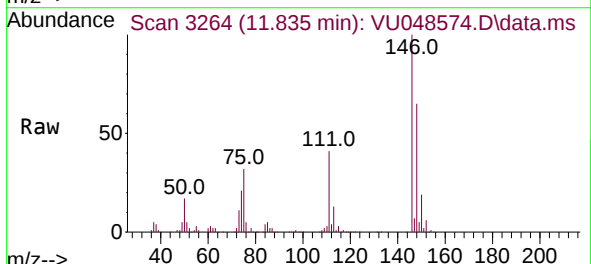
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

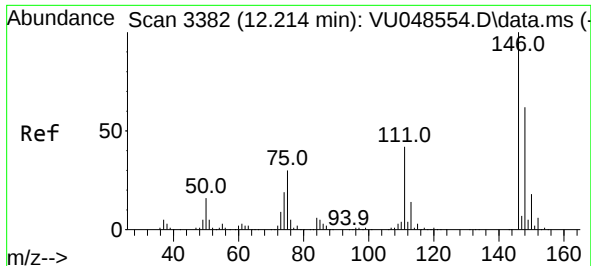
Tgt Ion:146 Resp: 258569  
Ion Ratio Lower Upper  
146 100  
111 41.3 28.3 52.7  
148 64.4 44.7 83.1



#65  
1,4-Dichlorobenzene  
Concen: 50.062 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:146 Resp: 258848  
Ion Ratio Lower Upper  
146 100  
111 41.1 28.4 52.8  
148 65.4 43.4 80.6





#67

1,2-Dichlorobenzene

Concen: 49.173 ug/L

RT: 12.211 min Scan# 3382

Delta R.T. -0.003 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050127

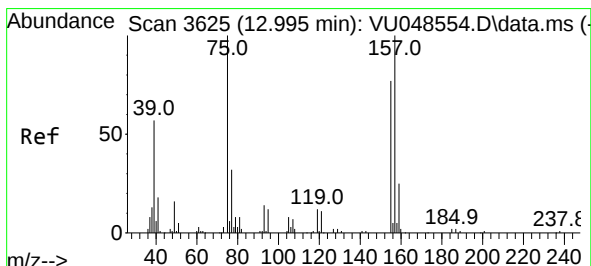
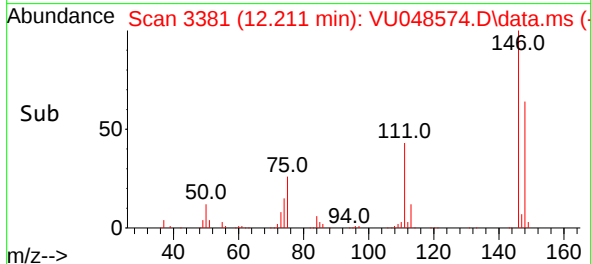
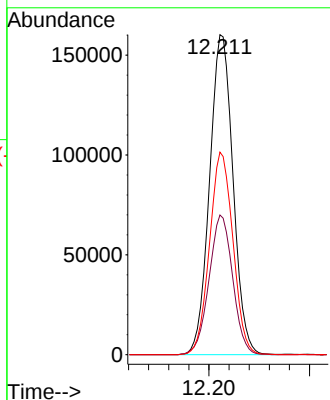
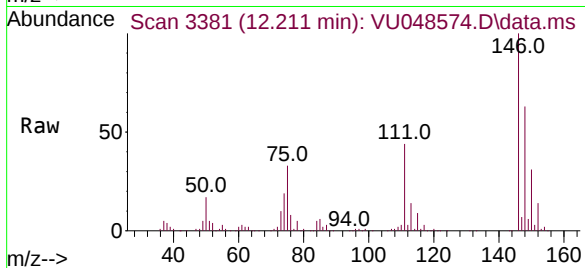
Tgt Ion:146 Resp: 259514

Ion Ratio Lower Upper

146 100

111 43.6 34.9 52.3

148 63.3 50.8 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 48.557 ug/L

RT: 12.995 min Scan# 3625

Delta R.T. -0.000 min

Lab File: VU048574.D

Acq: 13 May 2022 20:00

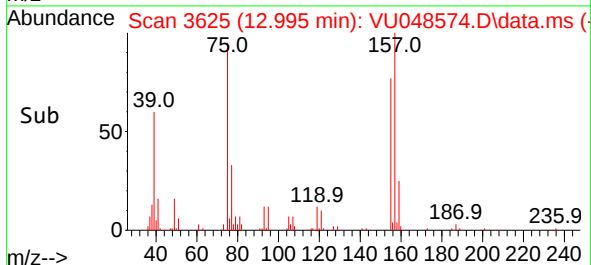
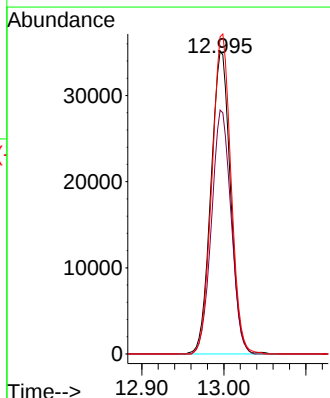
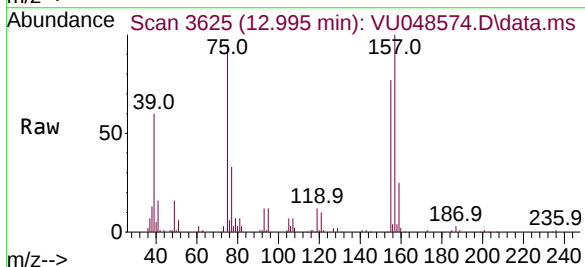
Tgt Ion: 75 Resp: 57972

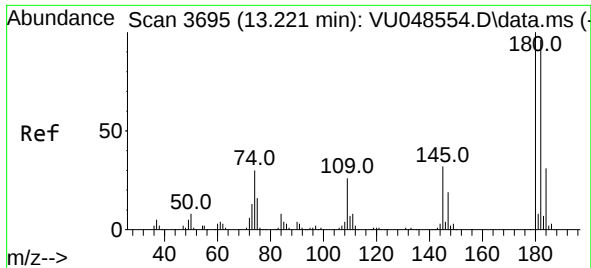
Ion Ratio Lower Upper

75 100

155 80.5 63.4 95.0

157 104.8 82.2 123.2



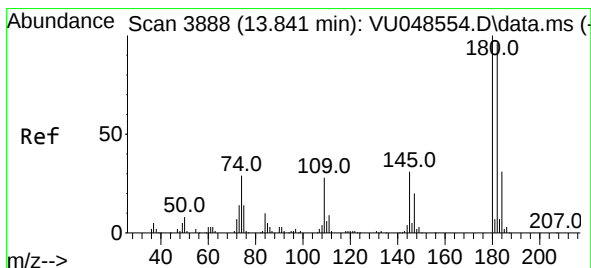
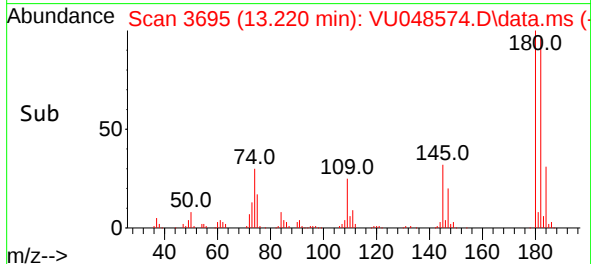
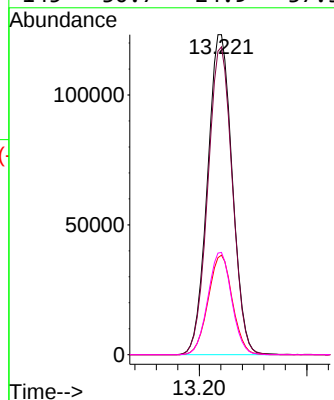
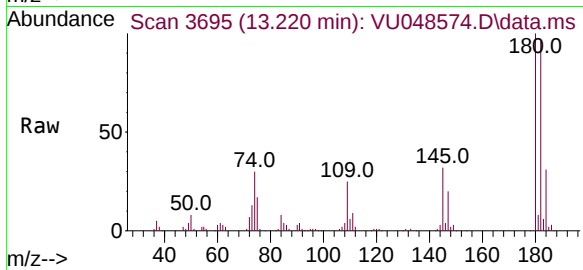


#69  
1,3,5-Trichlorobenzene  
Concen: 54.059 ug/L  
RT: 13.220 min Scan# 3695  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

Tgt Ion:180 Resp: 197119

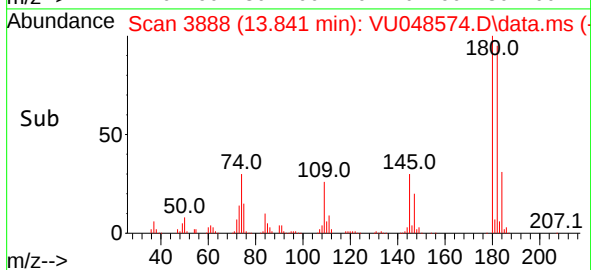
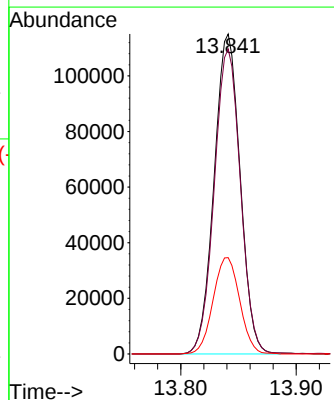
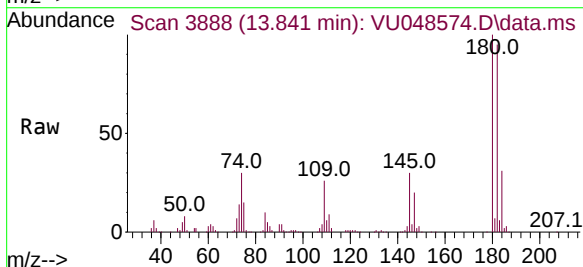
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 95.1  | 75.7  | 113.5 |
| 184 | 30.4  | 23.8  | 35.8  |
| 145 | 30.7  | 24.9  | 37.3  |

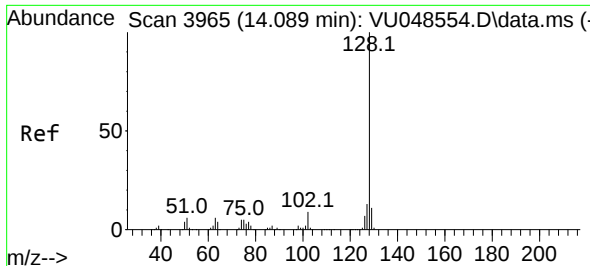


#70  
1,2,4-trichlorobenzene  
Concen: 56.795 ug/L  
RT: 13.841 min Scan# 3888  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:180 Resp: 179848

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 95.8  | 77.1  | 115.7 |
| 145 | 30.8  | 24.9  | 37.3  |

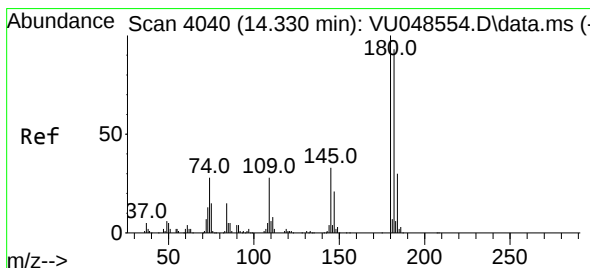
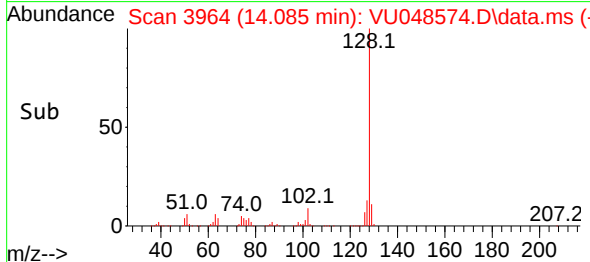
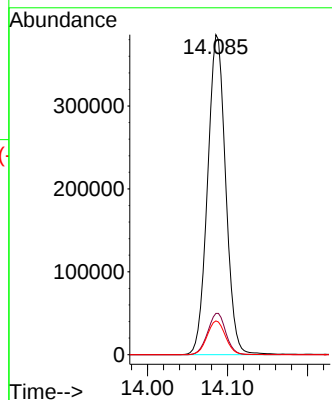
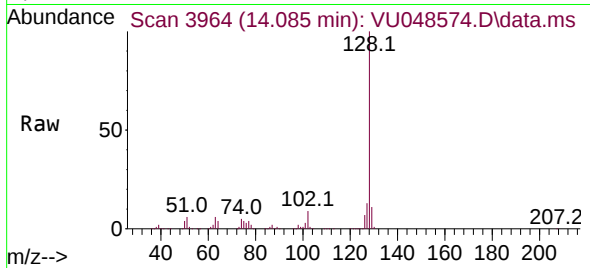




#71  
Naphthalene  
Concen: 49.837 ug/L  
RT: 14.085 min Scan# 3965  
Delta R.T. -0.003 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050127

Tgt Ion:128 Resp: 607739  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.5 15.7  
129 10.8 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 53.669 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. -0.000 min  
Lab File: VU048574.D  
Acq: 13 May 2022 20:00

Tgt Ion:180 Resp: 180752  
Ion Ratio Lower Upper  
180 100  
182 95.3 75.4 113.2  
145 33.7 26.4 39.6

