

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121522\  
 Data File : VU052421.D  
 Acq On : 15 Dec 2022 17:14  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 16 00:21:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Dec 16 00:19:11 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 224872   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 222618   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 119671   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 69343    | 3.170    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 63.400%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 66307    | 3.903    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 78.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.568  | 65    | 29648    | 3.781    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 75.600%  |
| 20) 2-Butanone-d5             | 4.636  | 46    | 247820   | 62.505   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 125.000% |
| 24) Chloroform-d              | 5.060  | 84    | 159810   | 4.972    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 99.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 80258    | 4.944    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 98.800%  |
| 32) Benzene-d6                | 5.726  | 84    | 309167   | 4.678    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 93.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 102854   | 5.029    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 100.600% |
| 41) Toluene-d8                | 7.896  | 98    | 282020   | 4.716    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 94.400%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 34685    | 4.654    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 93.000%  |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 186339   | 58.992   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 117.980% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 100396   | 5.661    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 113.200% |
| 66) 1,2-Dichlorobenzene-d4    | 12.188 | 152   | 107225   | 4.680    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 93.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 102288   | 5.245    | ug/L   | 99       |
| 3) Chloromethane              | 1.520  | 50    | 114643   | 4.504    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.604  | 62    | 126085   | 5.156    | ug/L   | 100      |
| 6) Bromomethane               | 1.858  | 94    | 85802    | 6.837    | ug/L   | 99       |
| 8) Chloroethane               | 1.935  | 64    | 77942    | 5.125    | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 2.141  | 101   | 149790   | 5.568    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101   | 93605    | 5.691    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.581  | 96    | 87642    | 5.373    | ug/L   | 84       |
| 13) Acetone                   | 2.652  | 43    | 156187   | 58.011   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.793  | 76    | 281054   | 4.977    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.957  | 43    | 39938    | 5.719    | ug/L   | 97       |
| 16) Methylene chloride        | 3.044  | 84    | 137847   | 6.246    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 3.359  | 73    | 195173   | 5.344    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.350  | 96    | 92514    | 5.291    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 172684   | 5.479    | ug/L   | 98       |
| 21) 2-Butanone                | 4.716  | 43    | 257916   | 59.769   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.661  | 96    | 98931    | 5.391    | ug/L   | 96       |
| 23) Bromochloromethane        | 4.970  | 128   | 49293    | 5.614    | ug/L   | 94       |
| 25) Chloroform                | 5.086  | 83    | 176909   | 5.540    | ug/L   | 96       |

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 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

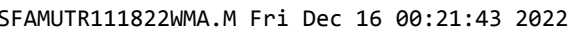
Instrument :  
 MSVOA\_U  
 ClientSampleId :

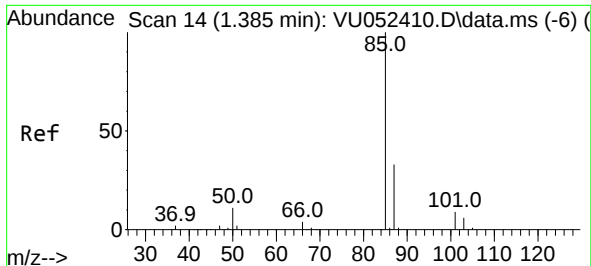
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Dec 16 00:19:11 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 105968   | 5.418  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.311  | 97   | 142088   | 5.753  | ug/L  | 100      |
| 30) Cyclohexane               | 5.388  | 56   | 136472   | 5.691  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 115312   | 5.495  | ug/L  | 99       |
| 33) Benzene                   | 5.771  | 78   | 404334   | 5.581  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 98121    | 5.430  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.761  | 83   | 143069   | 5.504  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 108239   | 5.770  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.102  | 83   | 130578   | 5.710  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.603  | 75   | 127753   | 5.304  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 592835   | 60.502 | ug/L  | 99       |
| 42) Toluene                   | 7.967  | 91   | 428685   | 5.752  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 114064   | 5.531  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 81847    | 5.806  | ug/L  | 98       |
| 47) Tetrachloroethene         | 8.549  | 164  | 79209    | 5.719  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.681  | 43   | 451583   | 62.864 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.806  | 129  | 92976    | 5.889  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.918  | 107  | 73433    | 5.719  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.443  | 112  | 264389   | 5.564  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.568  | 91   | 402185   | 5.551  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.690  | 106  | 159792   | 5.696  | ug/L  | 96       |
| 54) o-Xylene                  | 10.099 | 106  | 152816   | 5.683  | ug/L  | 97       |
| 55) Styrene                   | 10.111 | 104  | 263322   | 5.798  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 104305   | 5.924  | ug/L  | 100      |
| 59) Bromoform                 | 10.285 | 173  | 53968    | 5.475  | ug/L  | 97       |
| 60) Isopropylbenzene          | 10.481 | 105  | 400248   | 5.325  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75   | 71081    | 5.190  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 294333   | 4.898  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 295935   | 4.962  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 205650   | 5.358  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 203603   | 5.319  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 196044   | 5.304  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 14720    | 4.911  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 141012   | 5.181  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 109296   | 5.273  | ug/L  | 100      |
| 71) Naphthalene               | 14.082 | 128  | 177120   | 4.552  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 105563   | 5.177  | ug/L  | 100      |

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

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QLast Update : Fri Dec 16 00:19:11 2022  
Response via : Initial Calibration

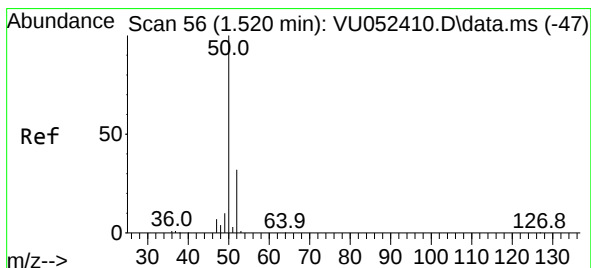
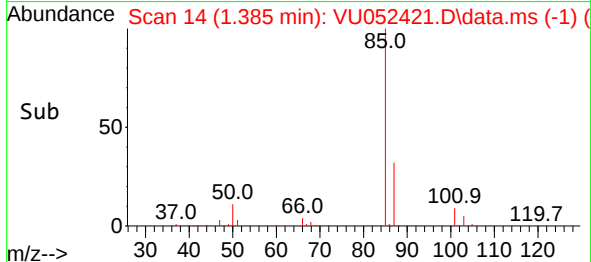
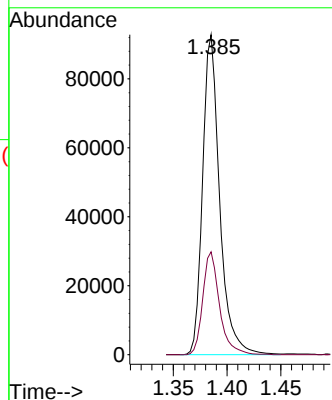
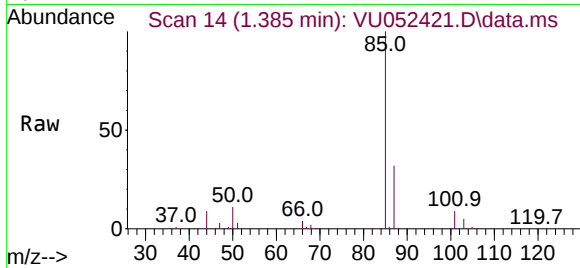




#2  
 Dichlorodifluoromethane  
 Concen: 5.245 ug/L  
 RT: 1.385 min Scan# 14  
 Delta R.T. 0.000 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

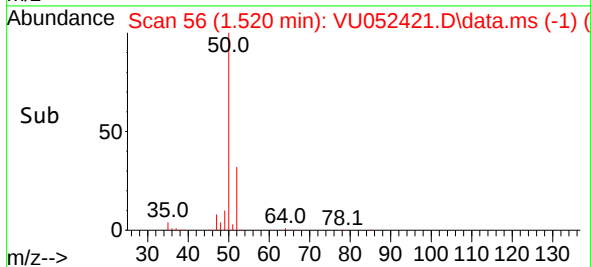
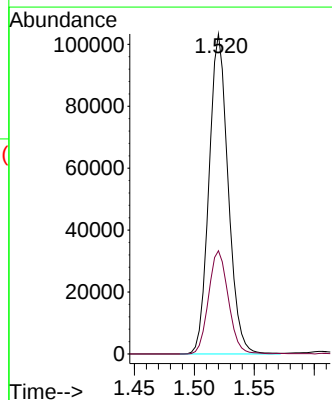
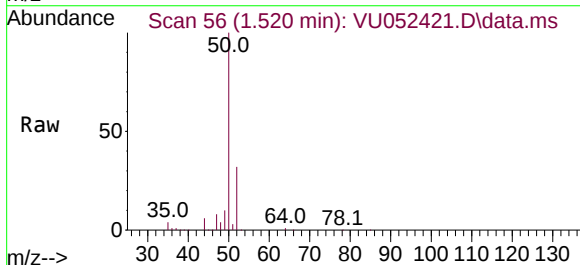
Instrument :  
 MSVOA\_U  
 ClientSampleId :

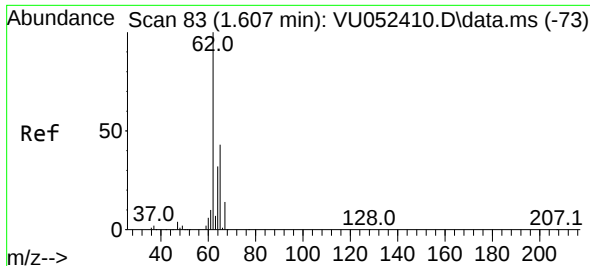
Tgt Ion: 85 Resp: 102288  
 Ion Ratio Lower Upper  
 85 100  
 87 31.6 25.8 38.8



#3  
 Chloromethane  
 Concen: 4.504 ug/L  
 RT: 1.520 min Scan# 56  
 Delta R.T. 0.000 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

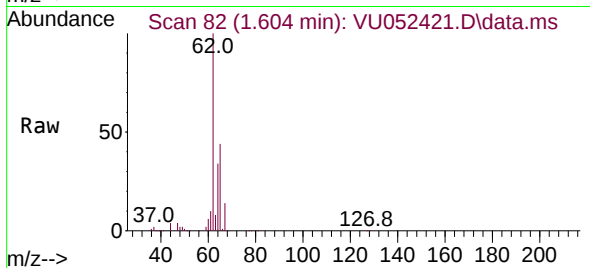
Tgt Ion: 50 Resp: 114643  
 Ion Ratio Lower Upper  
 50 100  
 52 32.3 23.4 43.4



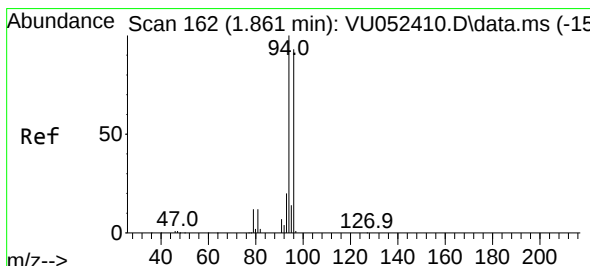
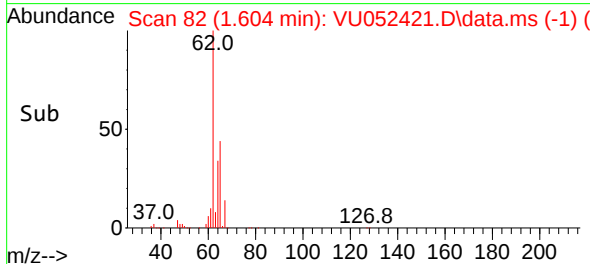
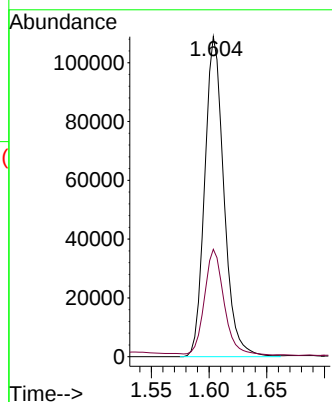


#5  
 Vinyl chloride  
 Concen: 5.156 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :

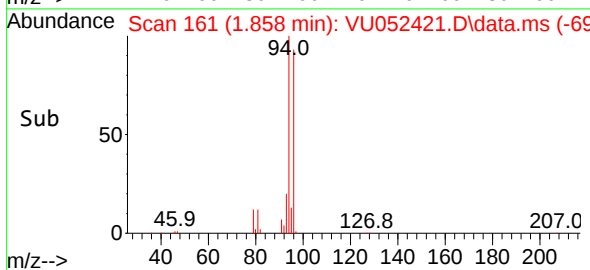
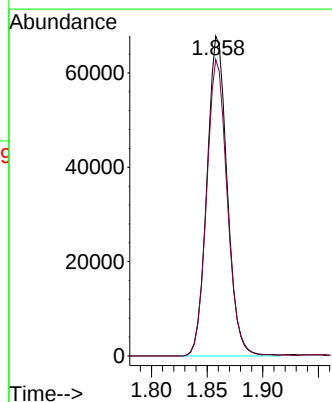
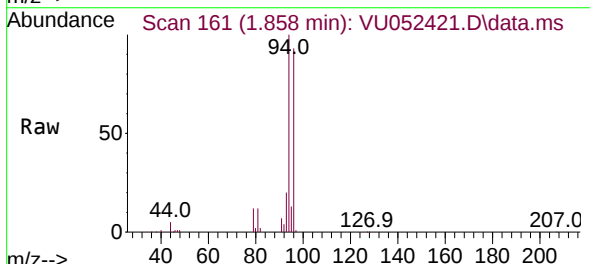


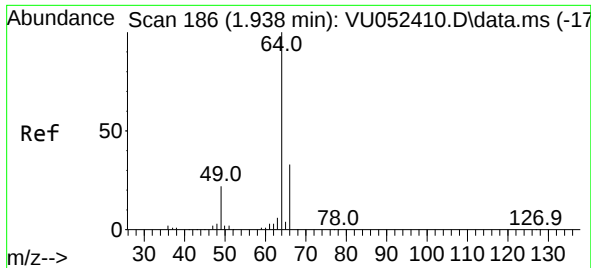
Tgt Ion: 62 Resp: 126085  
 Ion Ratio Lower Upper  
 62 100  
 64 33.6 23.5 43.7



#6  
 Bromomethane  
 Concen: 6.837 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Tgt Ion: 94 Resp: 85802  
 Ion Ratio Lower Upper  
 94 100  
 96 92.6 65.7 122.1

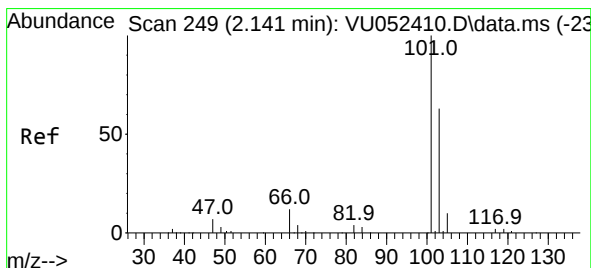
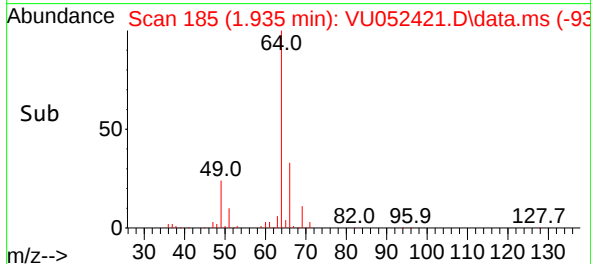
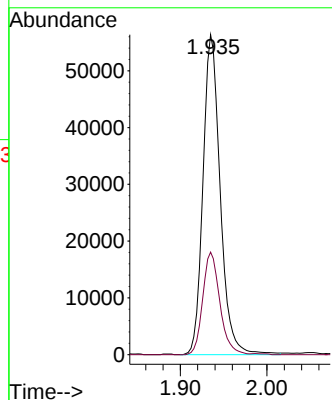
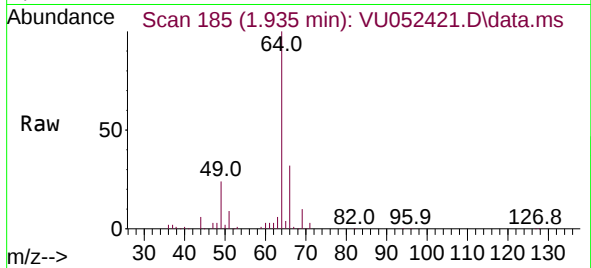




#8  
Chloroethane  
Concen: 5.125 ug/L  
RT: 1.935 min Scan# 186  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

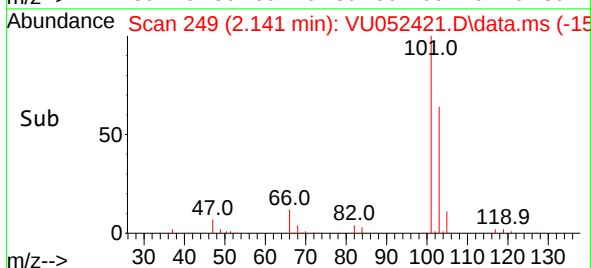
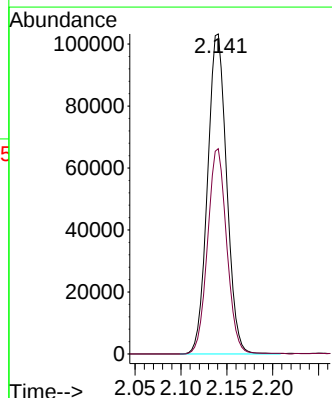
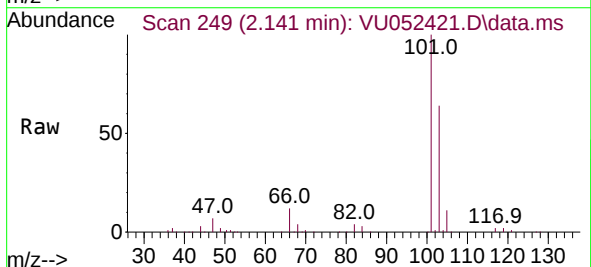
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MSVOA\_U  
ClientSampleId :

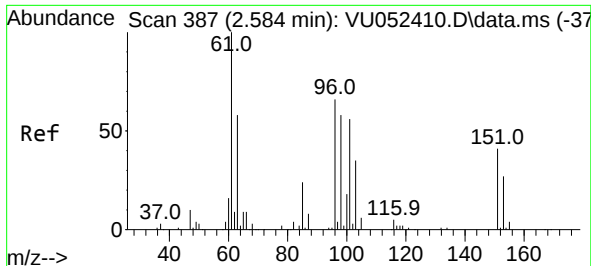
Tgt Ion: 64 Resp: 77942  
Ion Ratio Lower Upper  
64 100  
66 32.1 21.1 39.1



#9  
Trichlorofluoromethane  
Concen: 5.568 ug/L  
RT: 2.141 min Scan# 249  
Delta R.T. 0.000 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion:101 Resp: 149790  
Ion Ratio Lower Upper  
101 100  
103 64.1 51.6 77.4

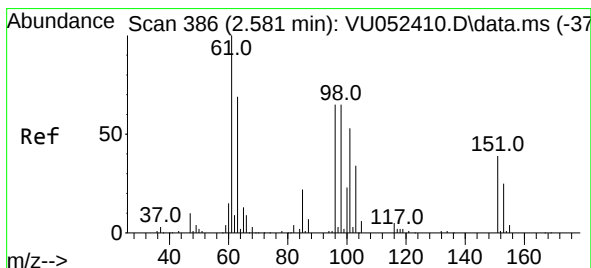
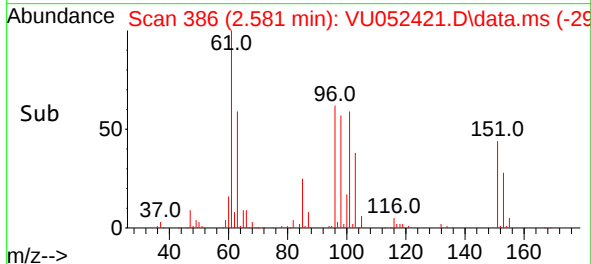
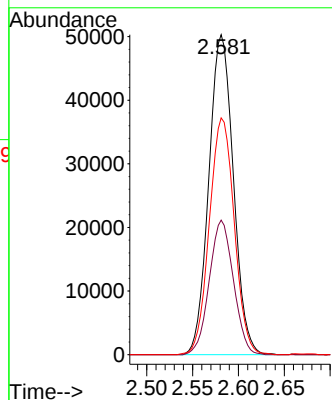
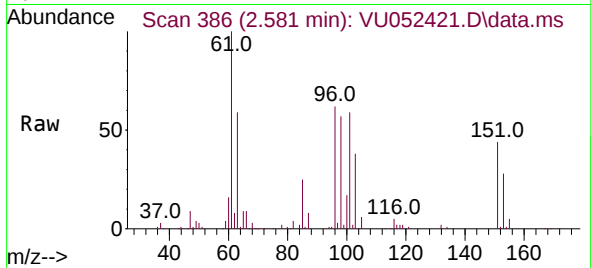




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.691 ug/L  
RT: 2.581 min Scan# 386  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

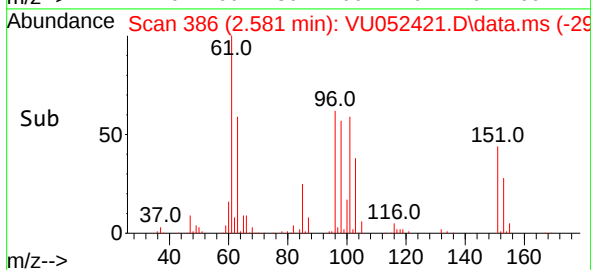
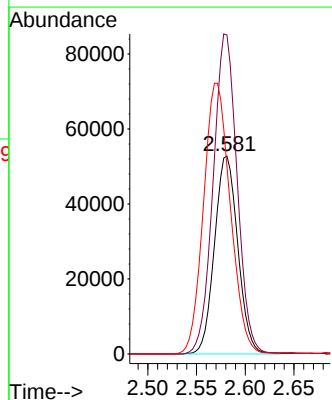
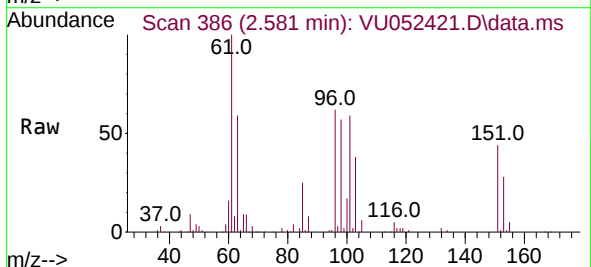
Instrument :  
MSVOA\_U  
ClientSampleId :

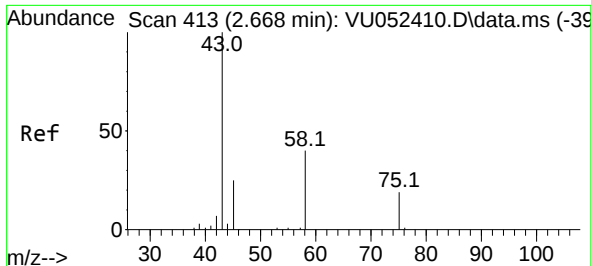
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Ion Ratio Lower Upper  
101 100  
85 41.3 33.8 50.6  
151 75.1 58.6 88.0



#12  
1,1-Dichloroethene  
Concen: 5.373 ug/L  
RT: 2.581 min Scan# 386  
Delta R.T. 0.000 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion: 96 Resp: 87642  
Ion Ratio Lower Upper  
96 100  
61 161.2 114.8 213.2  
63 94.9 93.7 174.1





#13

Acetone

Concen: 58.011 ug/L

RT: 2.652 min Scan# 408

Delta R.T. -0.016 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

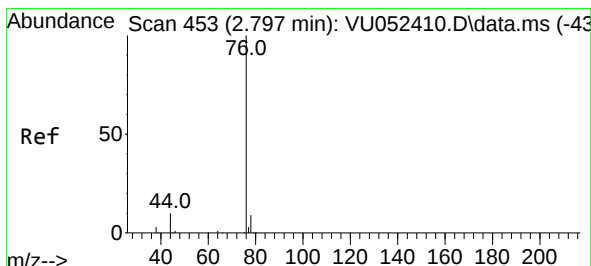
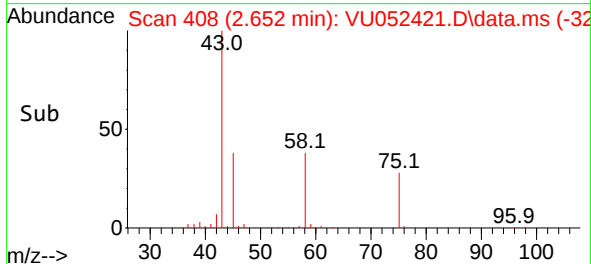
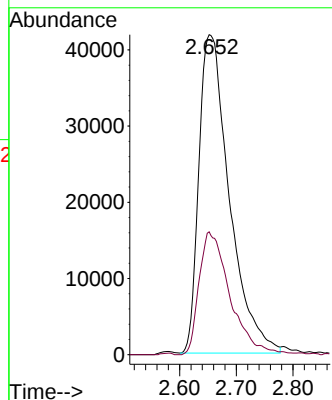
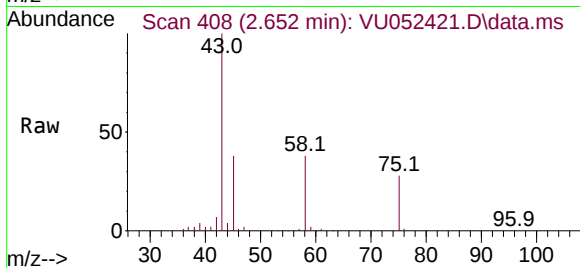
ClientSampleId :

Tgt Ion: 43 Resp: 156187

Ion Ratio Lower Upper

43 100

58 39.1 0.0 76.0



#14

Carbon disulfide

Concen: 4.977 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.003 min

Lab File: VU052421.D

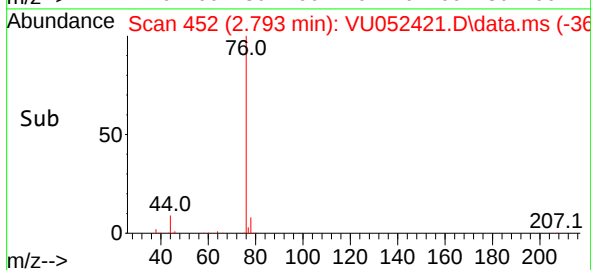
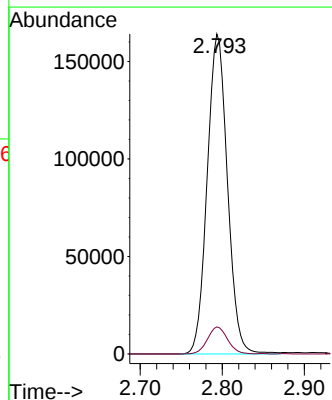
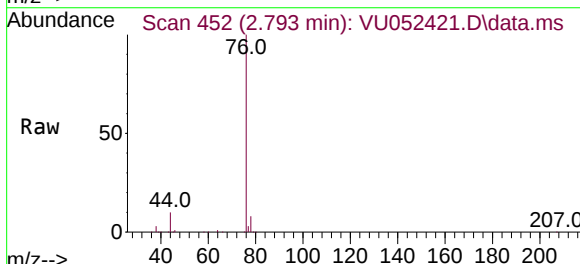
Acq: 15 Dec 2022 17:14

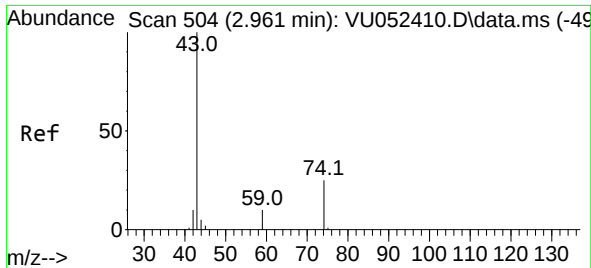
Tgt Ion: 76 Resp: 281054

Ion Ratio Lower Upper

76 100

78 8.4 7.0 10.4

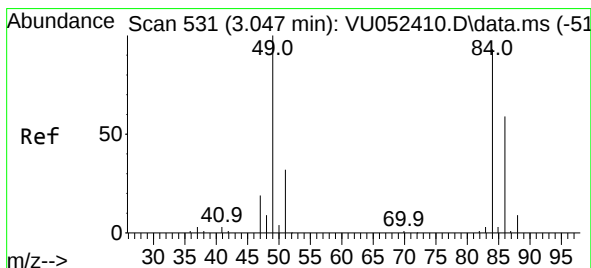
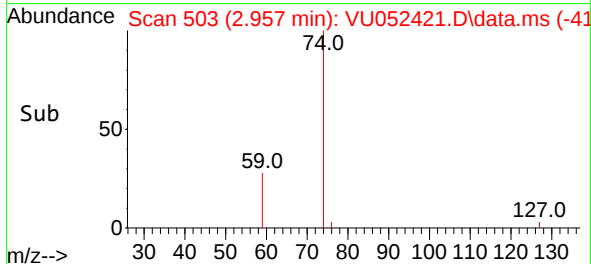
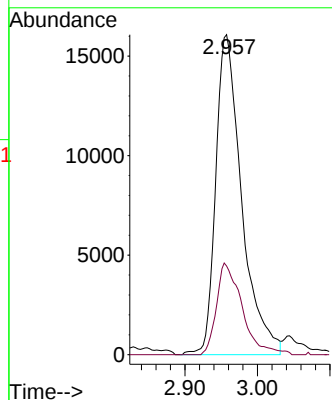
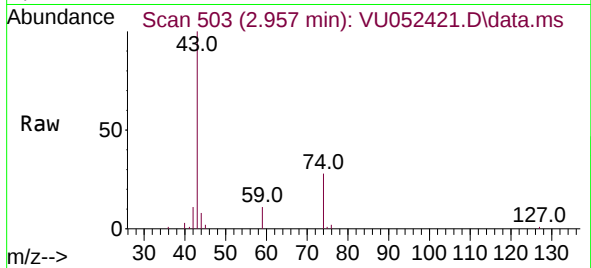




#15  
Methyl Acetate  
Concen: 5.719 ug/L  
RT: 2.957 min Scan# 504  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

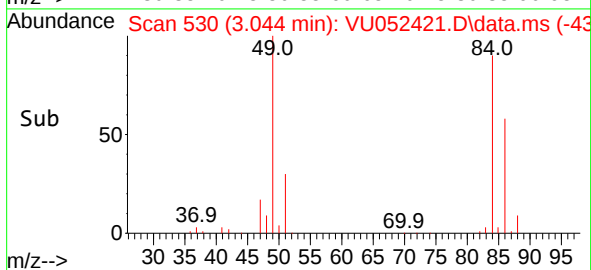
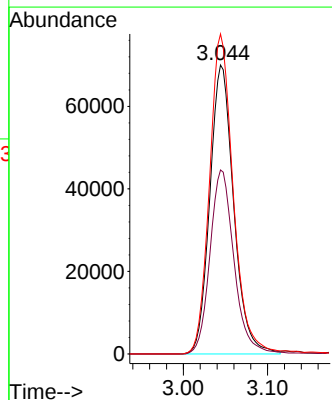
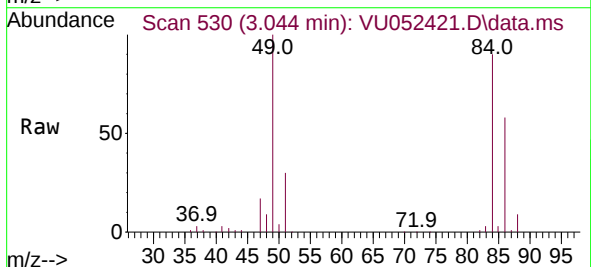
Instrument :  
MSVOA\_U  
ClientSampleId :

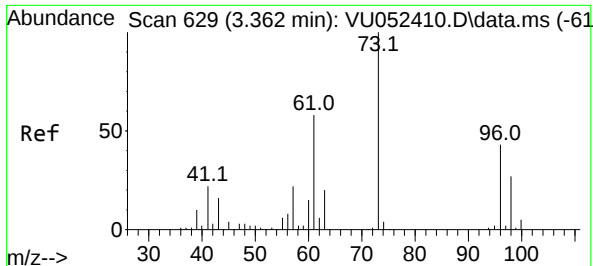
Tgt Ion: 43 Resp: 39938  
Ion Ratio Lower Upper  
43 100  
74 28.3 21.3 31.9



#16  
Methylene chloride  
Concen: 6.246 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion: 84 Resp: 137847  
Ion Ratio Lower Upper  
84 100  
86 63.7 43.8 81.4  
49 110.8 75.9 141.1





#17

Methyl tert-butyl Ether

Concen: 5.344 ug/L

RT: 3.359 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

ClientSampleId :

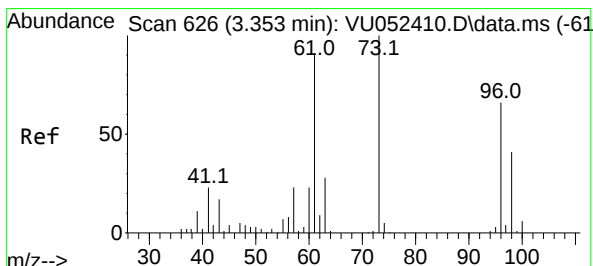
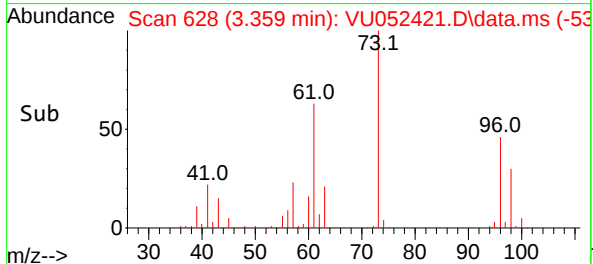
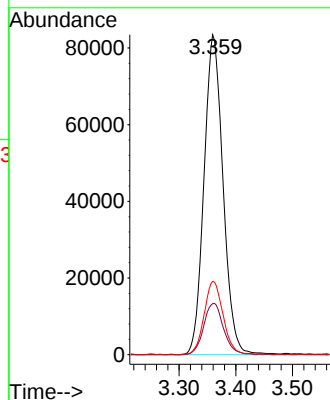
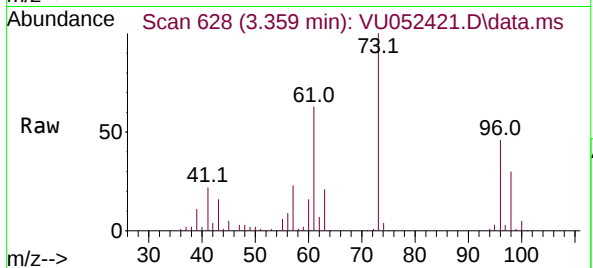
Tgt Ion: 73 Resp: 195173

Ion Ratio Lower Upper

73 100

43 16.8 13.2 19.8

57 22.9 17.8 26.8



#18

trans-1,2-Dichloroethene

Concen: 5.291 ug/L

RT: 3.350 min Scan# 625

Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

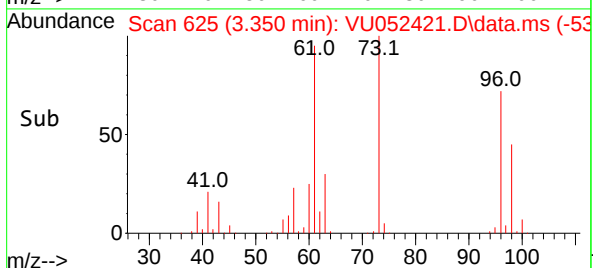
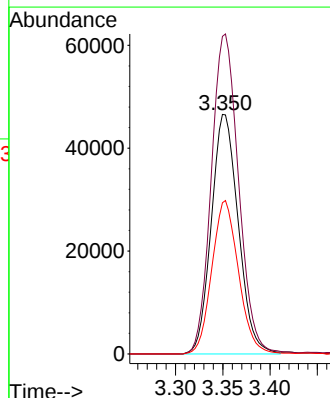
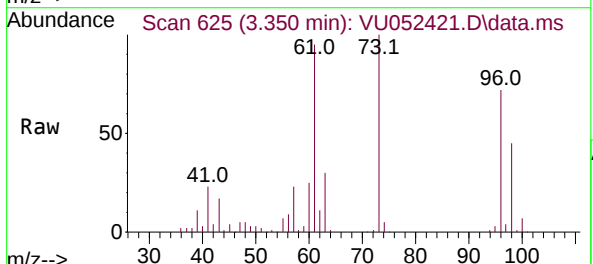
Tgt Ion: 96 Resp: 92514

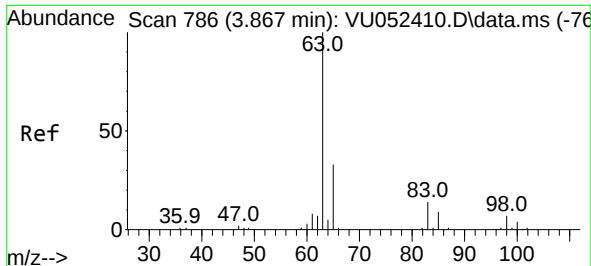
Ion Ratio Lower Upper

96 100

61 132.6 97.9 181.7

98 63.1 43.8 81.3





#19

1,1-Dichloroethane

Concen: 5.479 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

ClientSampleId :

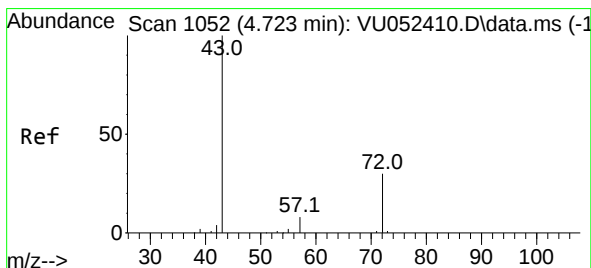
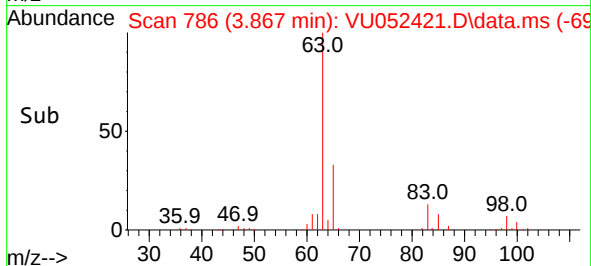
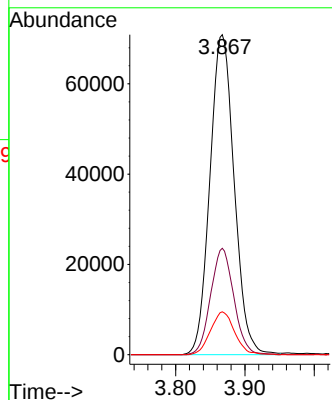
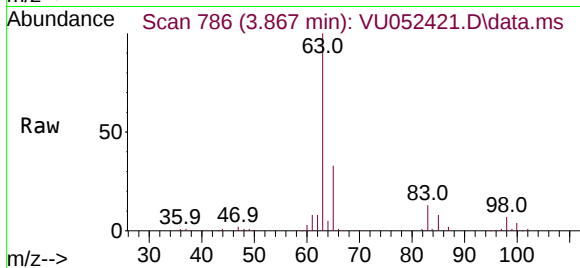
Tgt Ion: 63 Resp: 172684

Ion Ratio Lower Upper

63 100

65 33.2 22.2 41.2

83 13.4 9.2 17.0



#21

2-Butanone

Concen: 59.769 ug/L

RT: 4.716 min Scan# 1050

Delta R.T. -0.006 min

Lab File: VU052421.D

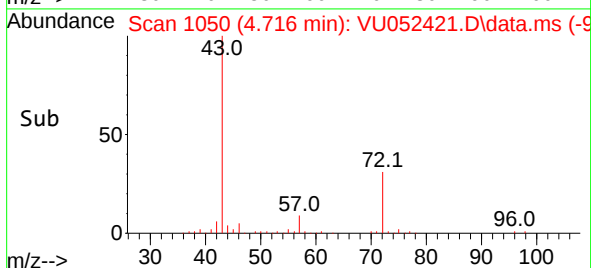
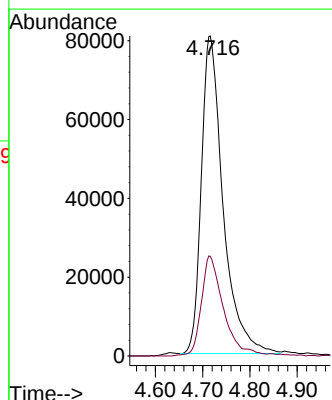
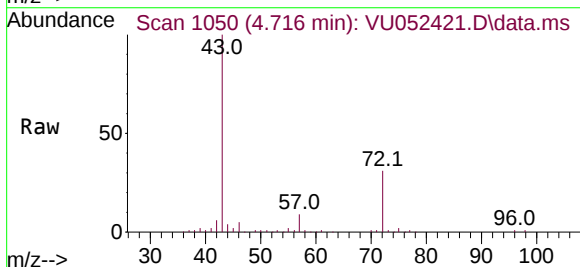
Acq: 15 Dec 2022 17:14

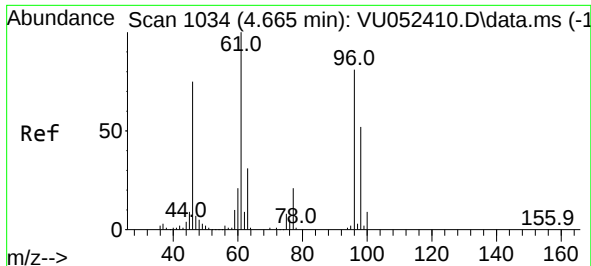
Tgt Ion: 43 Resp: 257916

Ion Ratio Lower Upper

43 100

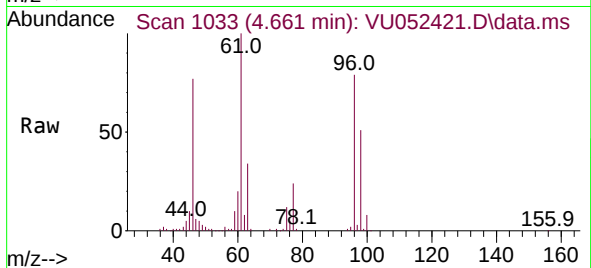
72 31.9 15.6 46.8



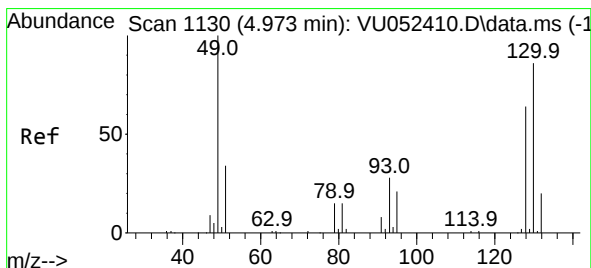
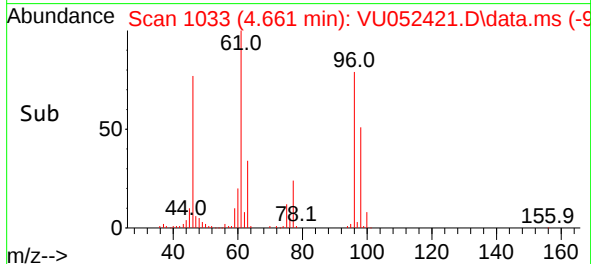
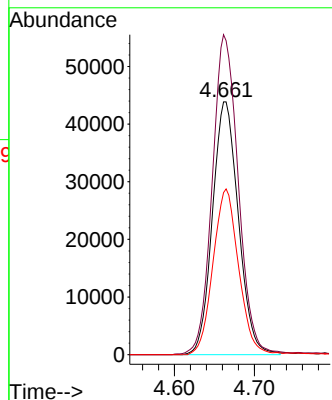


#22  
 cis-1,2-Dichloroethene  
 Concen: 5.391 ug/L  
 RT: 4.661 min Scan# 1034  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :

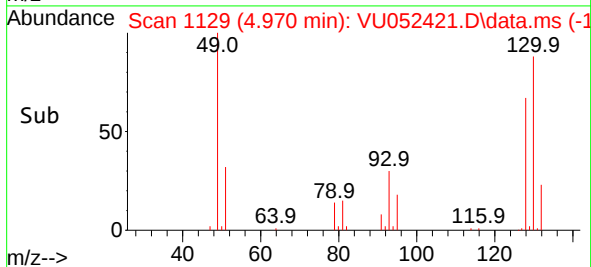
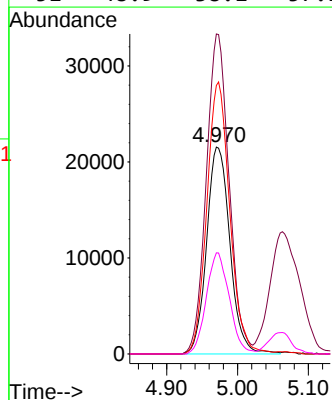
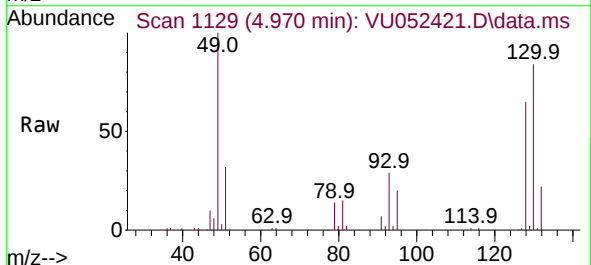


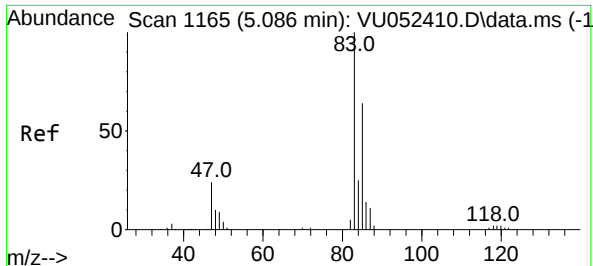
Tgt Ion: 96 Resp: 98931  
 Ion Ratio Lower Upper  
 96 100  
 61 126.6 85.1 158.1  
 98 64.1 42.8 79.6



#23  
 Bromochloromethane  
 Concen: 5.614 ug/L  
 RT: 4.970 min Scan# 1129  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Tgt Ion:128 Resp: 49293  
 Ion Ratio Lower Upper  
 128 100  
 49 154.7 104.0 193.2  
 130 129.8 84.6 157.2  
 51 48.9 38.1 57.1





#25

Chloroform

Concen: 5.540 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

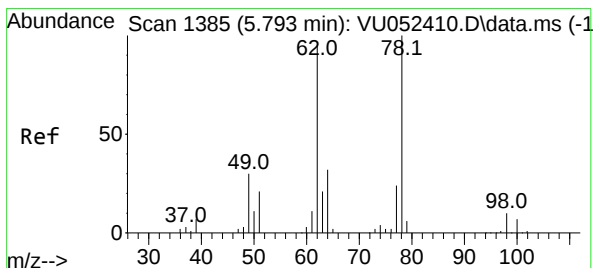
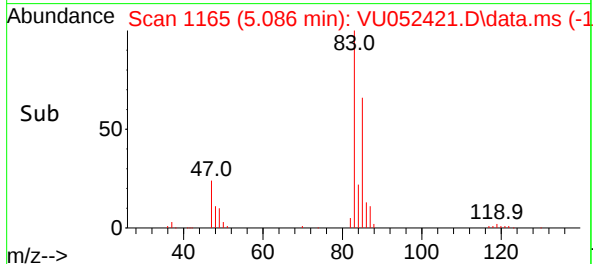
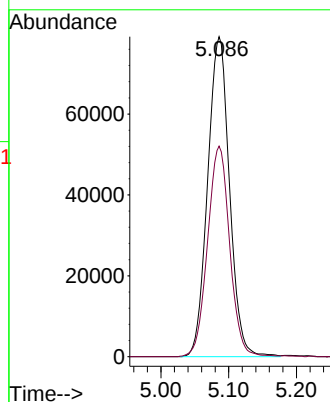
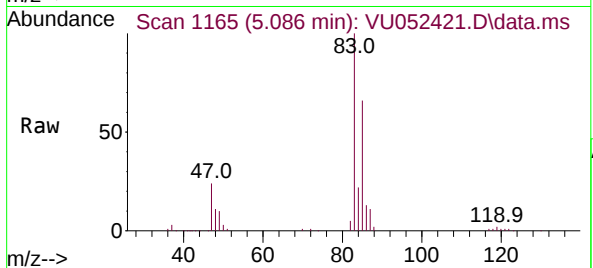
ClientSampleId :

Tgt Ion: 83 Resp: 176909

Ion Ratio Lower Upper

83 100

85 65.8 43.8 81.4



#27

1,2-Dichloroethane

Concen: 5.418 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. -0.003 min

Lab File: VU052421.D

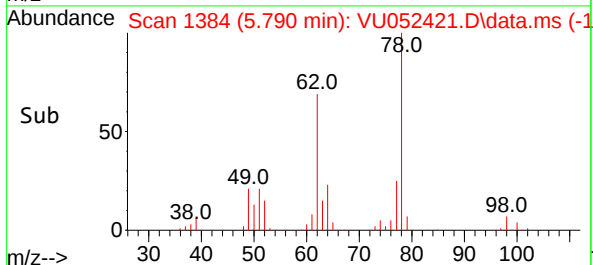
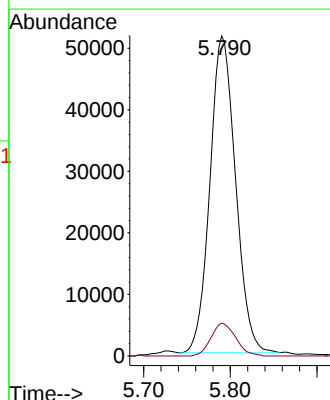
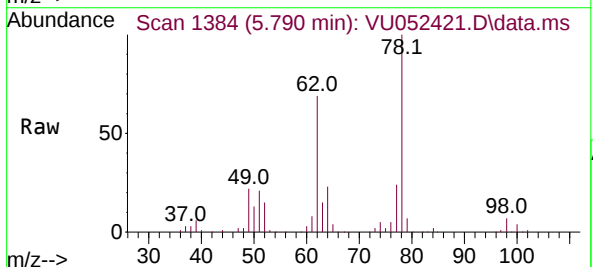
Acq: 15 Dec 2022 17:14

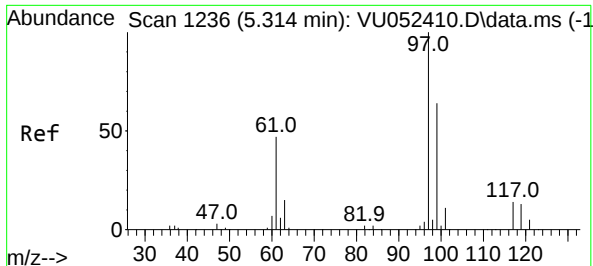
Tgt Ion: 62 Resp: 105968

Ion Ratio Lower Upper

62 100

98 10.2 8.4 12.6





#29

1,1,1-Trichloroethane

Concen: 5.753 ug/L

RT: 5.311 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

ClientSampleId :

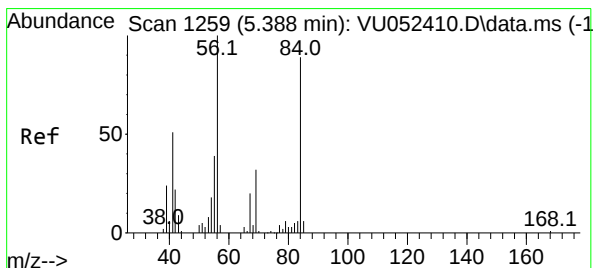
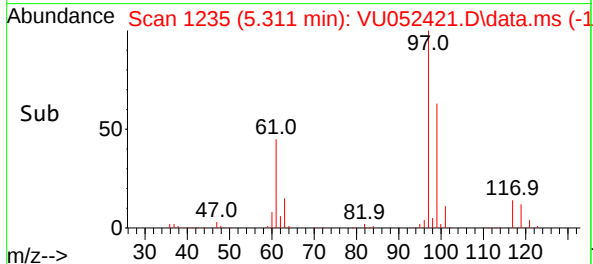
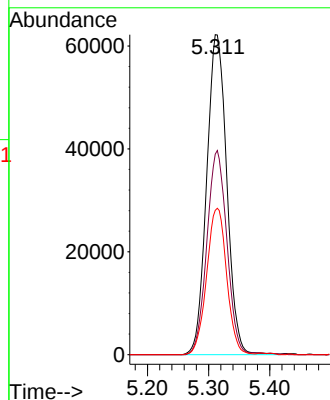
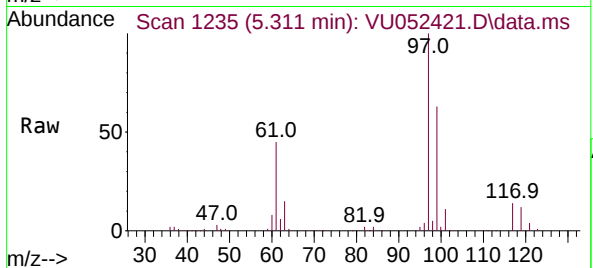
Tgt Ion: 97 Resp: 142088

Ion Ratio Lower Upper

97 100

99 63.6 51.0 76.6

61 45.6 36.9 55.3



#30

Cyclohexane

Concen: 5.691 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

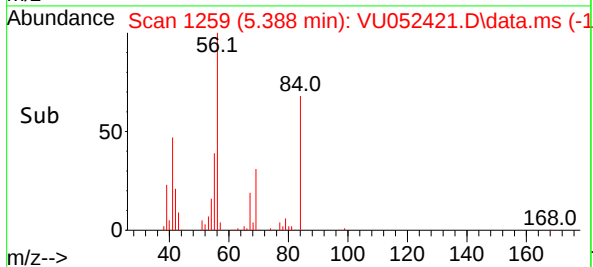
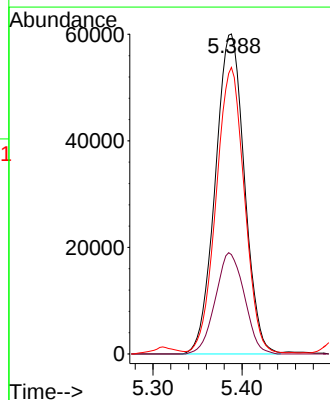
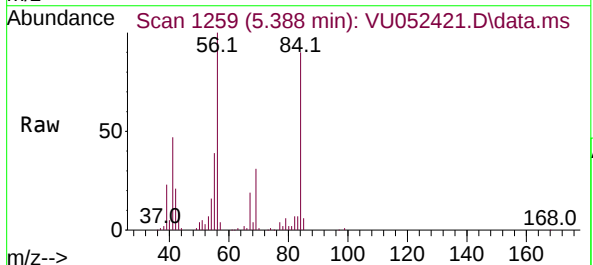
Tgt Ion: 56 Resp: 136472

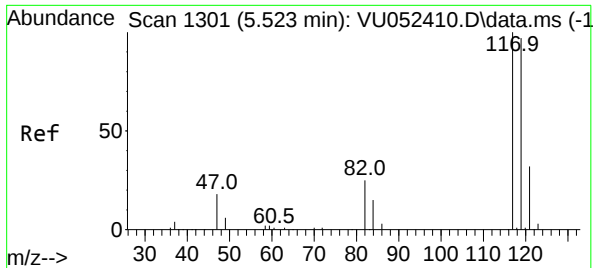
Ion Ratio Lower Upper

56 100

69 31.5 25.6 38.4

84 86.5 72.0 108.0

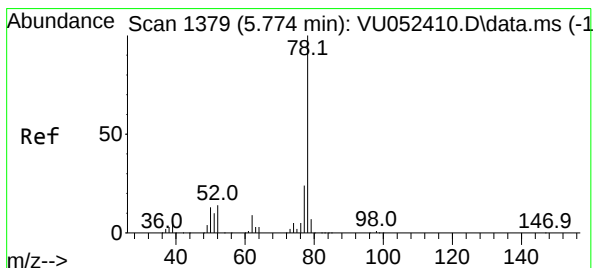
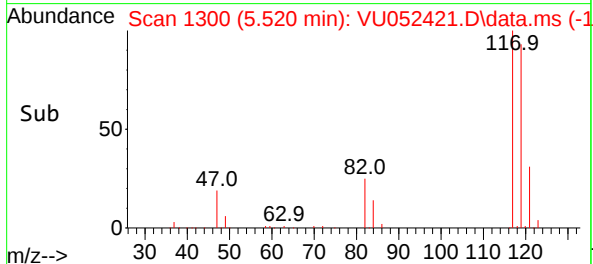
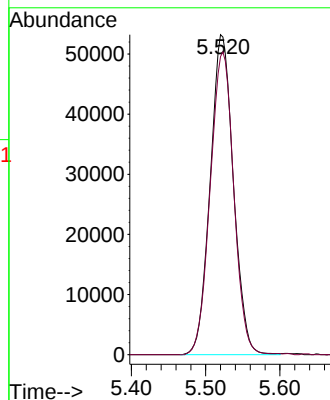
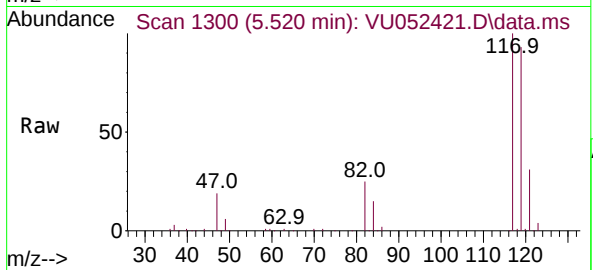




#31  
Carbon tetrachloride  
Concen: 5.495 ug/L  
RT: 5.520 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

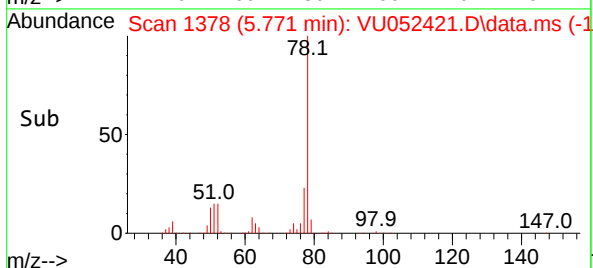
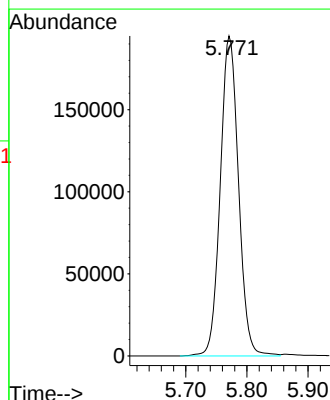
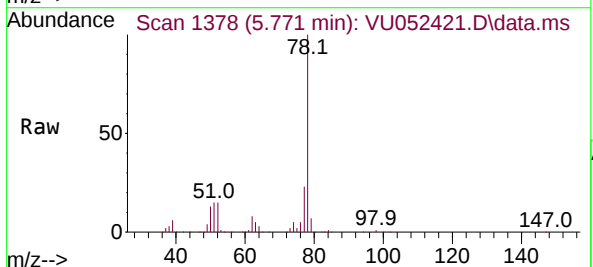
Instrument :  
MSVOA\_U  
ClientSampleId :

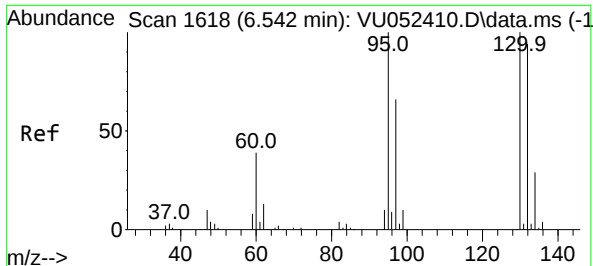
Tgt Ion:117 Resp: 115312  
Ion Ratio Lower Upper  
117 100  
119 95.8 77.2 115.8



#33  
Benzene  
Concen: 5.581 ug/L  
RT: 5.771 min Scan# 1378  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

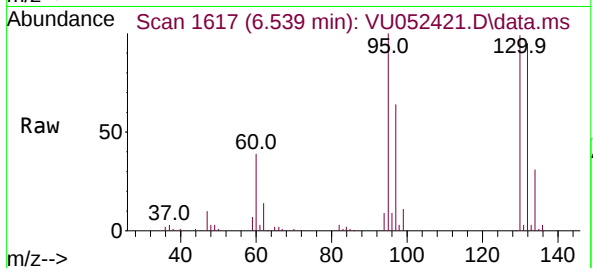
Tgt Ion: 78 Resp: 404334



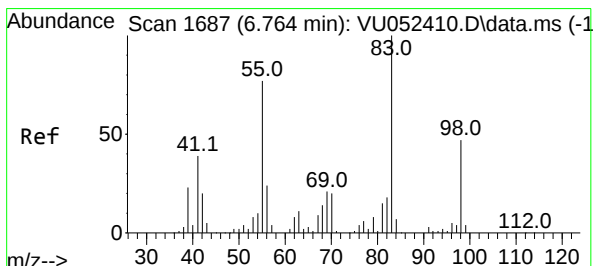
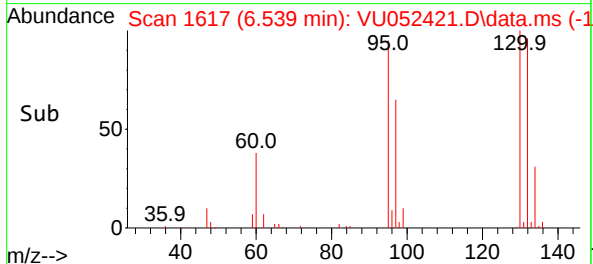
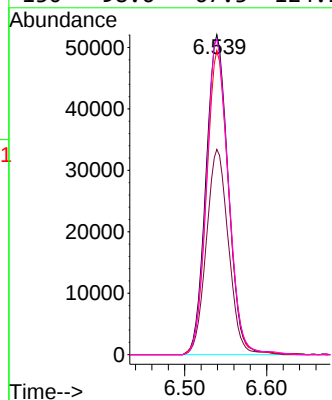


#34  
 Trichloroethene  
 Concen: 5.430 ug/L  
 RT: 6.539 min Scan# 1  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :

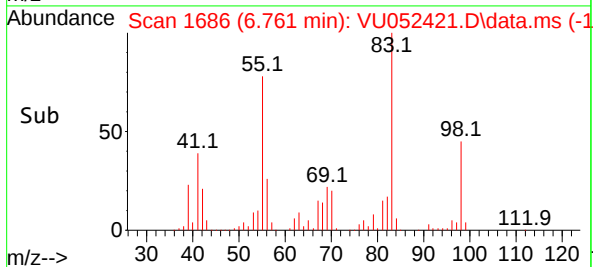
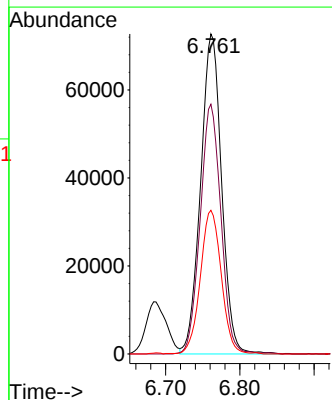
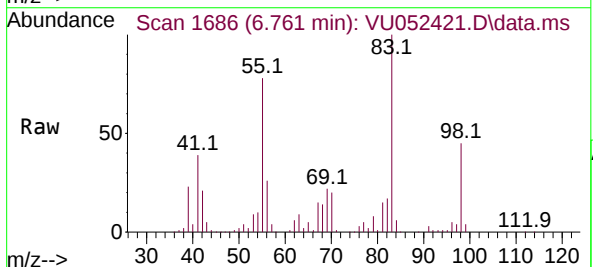


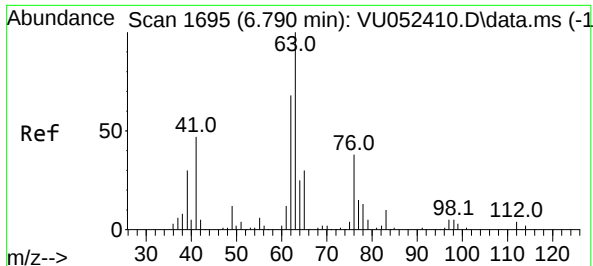
Tgt Ion: 95 Resp: 98121  
 Ion Ratio Lower Upper  
 95 100  
 97 64.1 43.7 81.1  
 132 95.1 64.3 119.3  
 130 98.6 67.3 124.9



#35  
 Methylcyclohexane  
 Concen: 5.504 ug/L  
 RT: 6.761 min Scan# 1686  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Tgt Ion: 83 Resp: 143069  
 Ion Ratio Lower Upper  
 83 100  
 55 76.9 60.8 91.2  
 98 44.1 35.1 52.7





#37

1,2-Dichloropropane

Concen: 5.770 ug/L

RT: 6.787 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

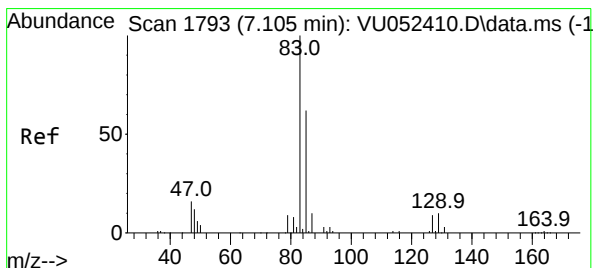
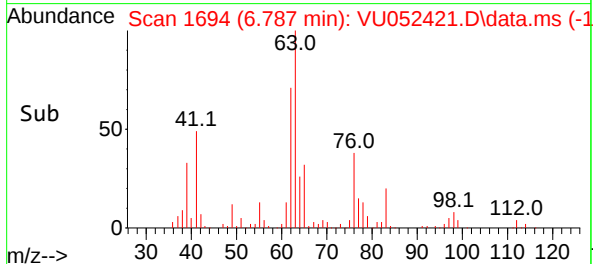
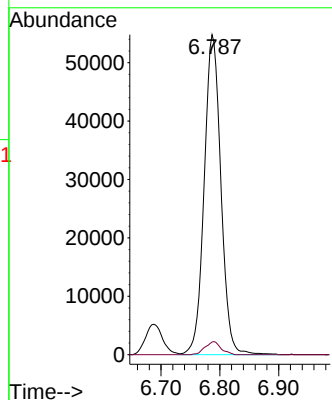
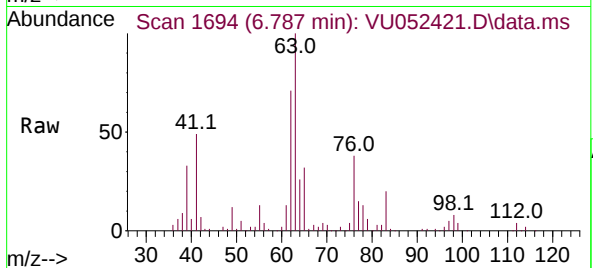
ClientSampleId :

Tgt Ion: 63 Resp: 108239

Ion Ratio Lower Upper

63 100

112 3.9 3.3 4.9



#38

Bromodichloromethane

Concen: 5.710 ug/L

RT: 7.102 min Scan# 1792

Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

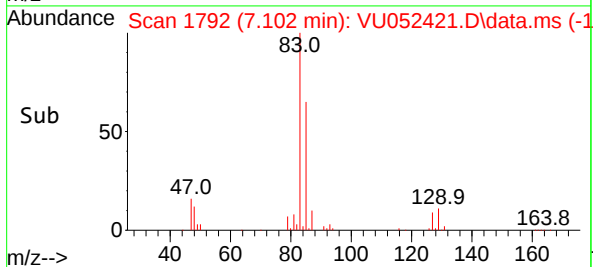
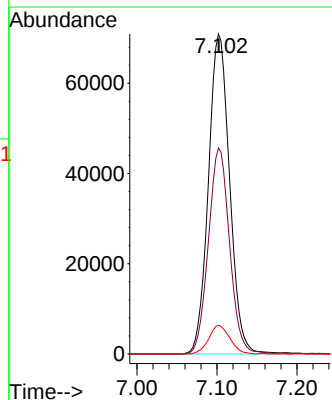
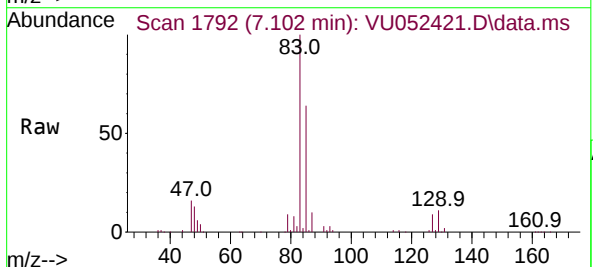
Tgt Ion: 83 Resp: 130578

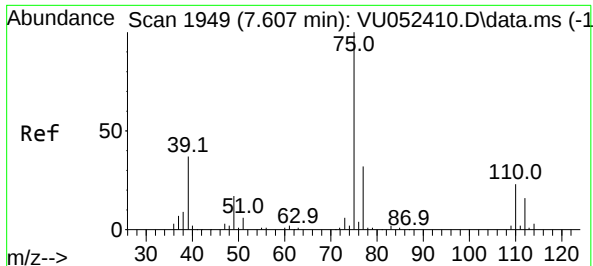
Ion Ratio Lower Upper

83 100

85 64.4 43.5 80.9

127 8.9 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 5.304 ug/L

RT: 7.603 min Scan# 1949

Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

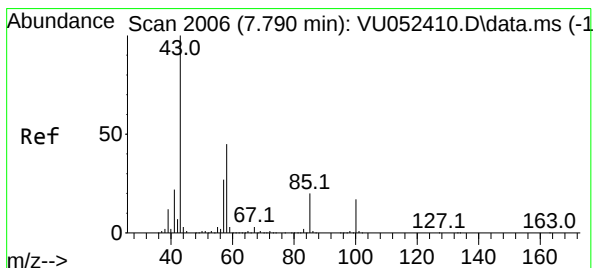
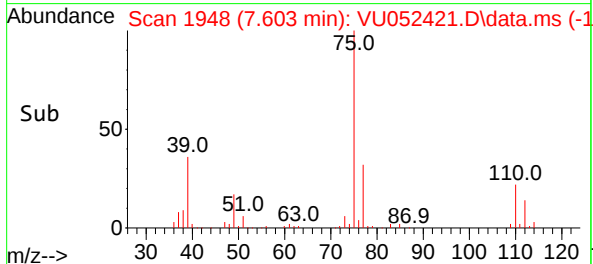
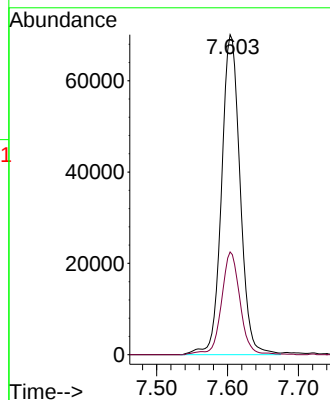
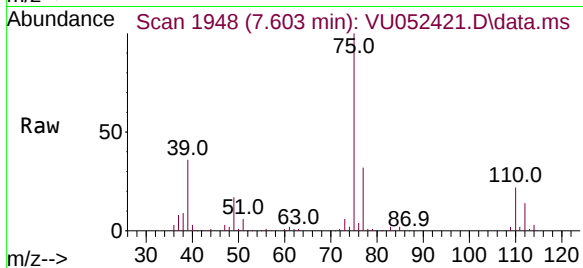
ClientSampleId :

Tgt Ion: 75 Resp: 127753

Ion Ratio Lower Upper

75 100

77 32.1 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 60.502 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

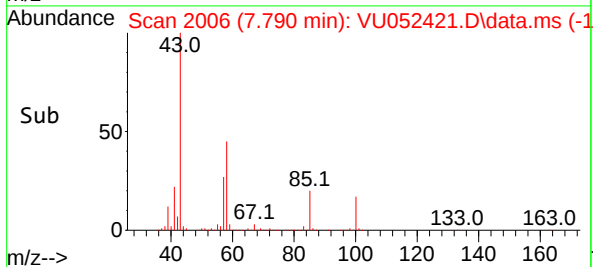
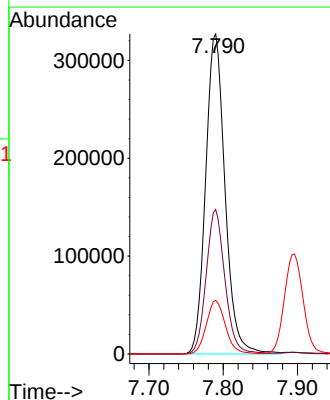
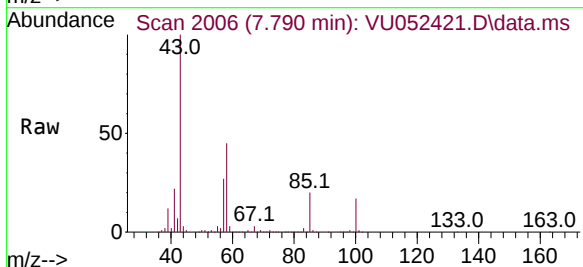
Tgt Ion: 43 Resp: 592835

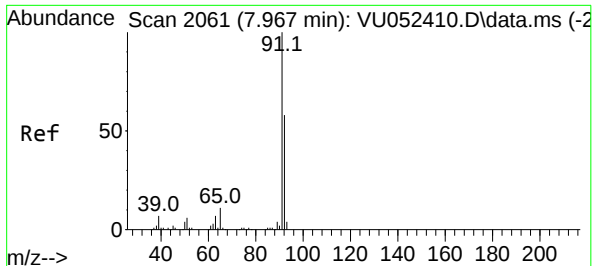
Ion Ratio Lower Upper

43 100

58 43.7 35.3 52.9

100 16.5 13.6 20.4





#42

Toluene

Concen: 5.752 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

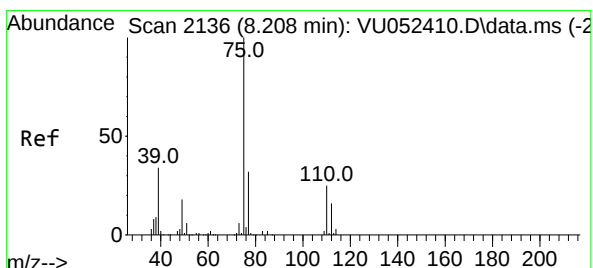
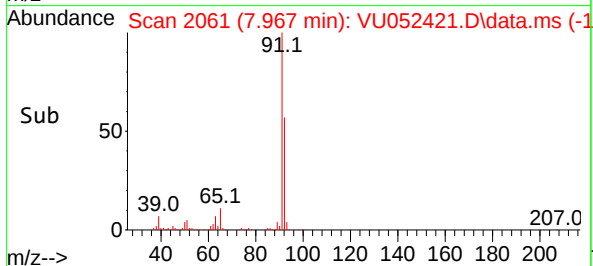
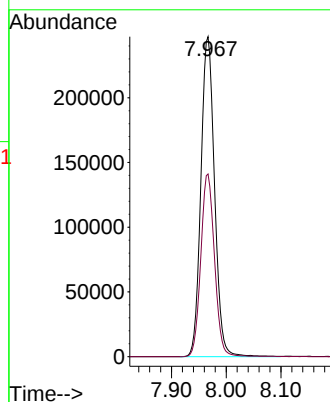
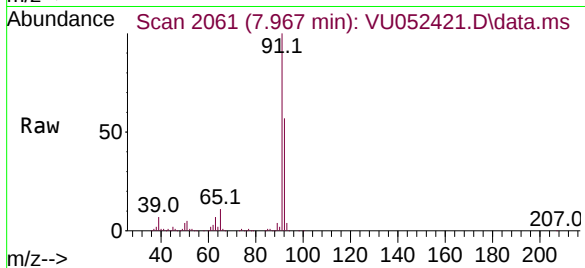
ClientSampleId :

Tgt Ion: 91 Resp: 428685

Ion Ratio Lower Upper

91 100

92 57.1 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 5.531 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. 0.000 min

Lab File: VU052421.D

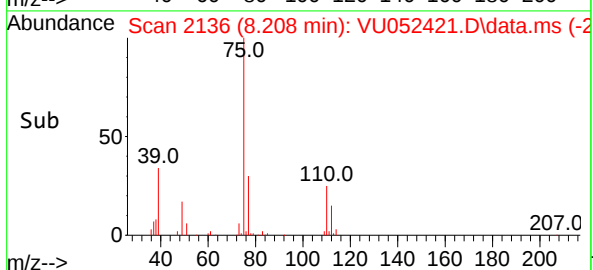
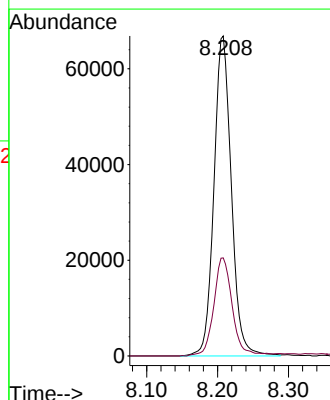
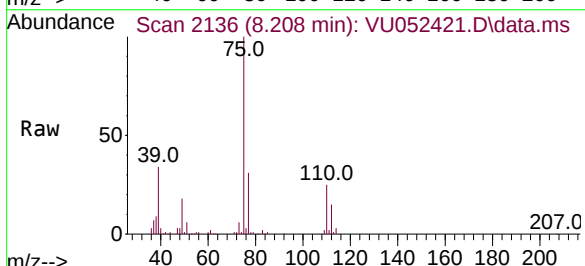
Acq: 15 Dec 2022 17:14

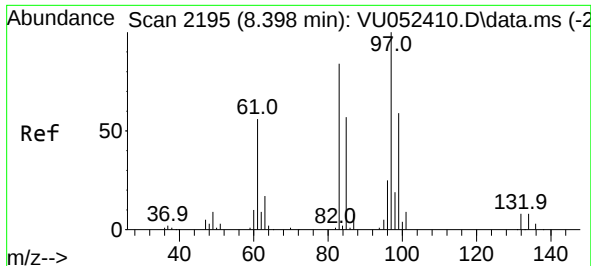
Tgt Ion: 75 Resp: 114064

Ion Ratio Lower Upper

75 100

77 30.7 22.6 42.0

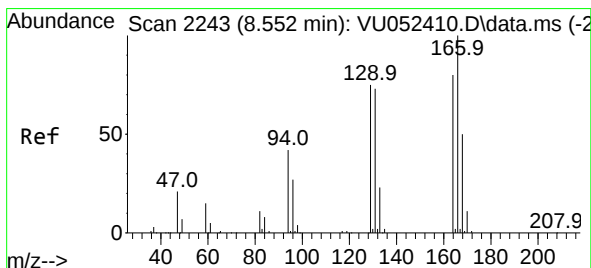
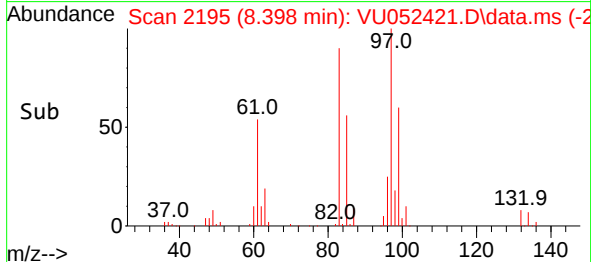
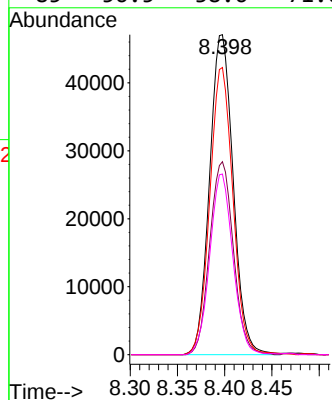
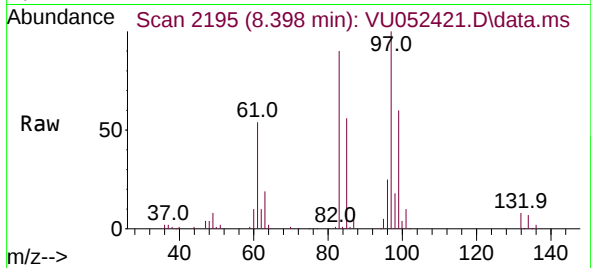




#45  
 1,1,2-Trichloroethane  
 Concen: 5.806 ug/L  
 RT: 8.398 min Scan# 2195  
 Delta R.T. 0.000 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

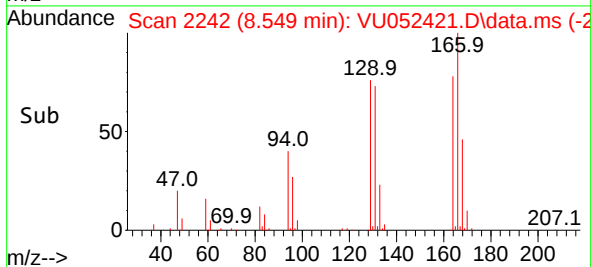
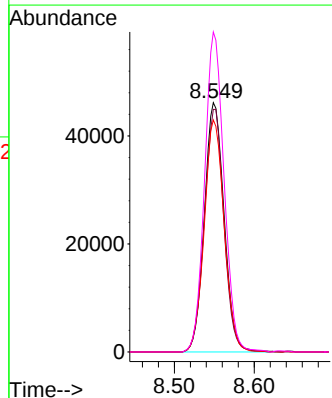
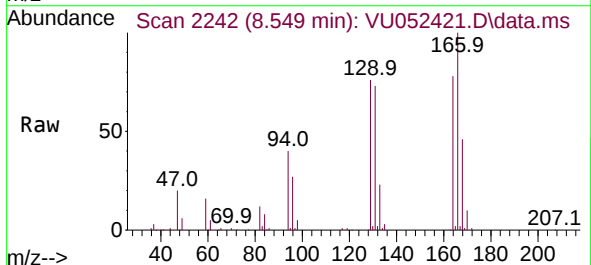
Instrument :  
 MSVOA\_U  
 ClientSampleId :

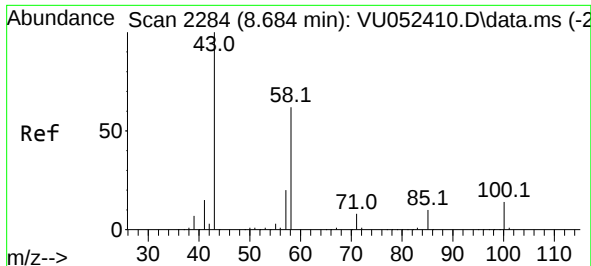
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 81847 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 60.3     | 42.6 79.2   |
| 83 89.7     | 60.7 112.7  |
| 85 56.5     | 38.6 71.6   |



#47  
 Tetrachloroethene  
 Concen: 5.719 ug/L  
 RT: 8.549 min Scan# 2242  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 79209 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 97.3    | 67.4  | 125.2 |
| 131 | 93.1    | 67.1  | 124.7 |
| 166 | 128.4   | 89.7  | 166.5 |



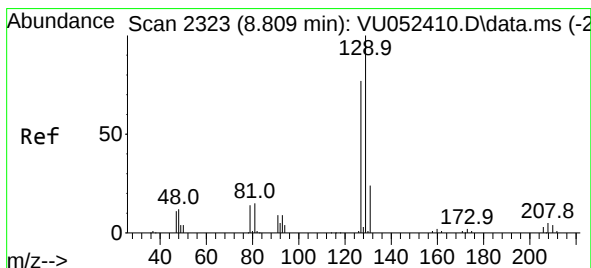
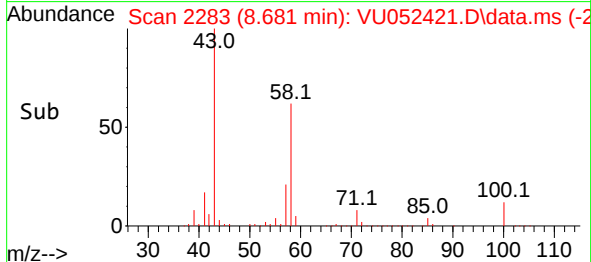
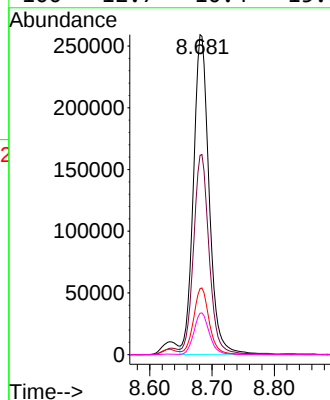
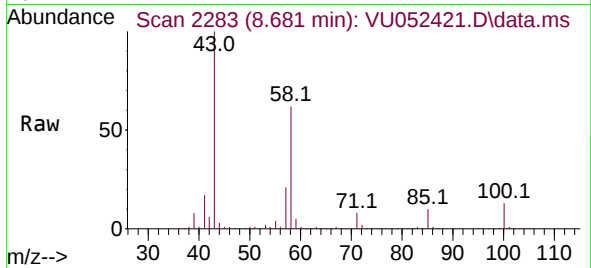


#48  
2-Hexanone  
Concen: 62.864 ug/L  
RT: 8.681 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 43 Resp: 451583

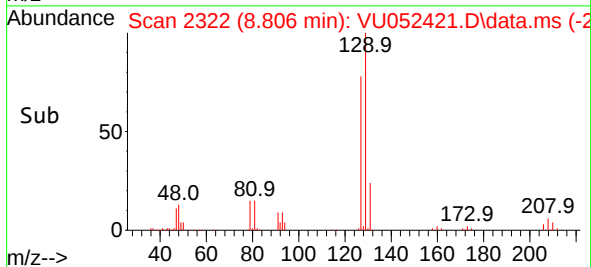
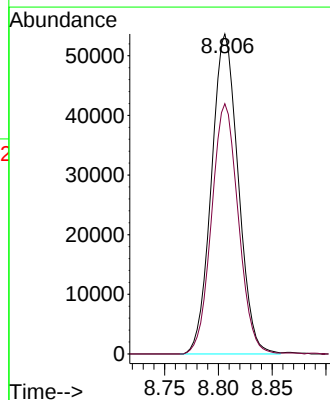
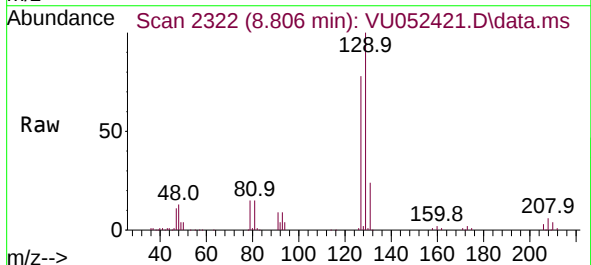
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 62.2  | 49.4  | 74.0  |
| 57  | 20.8  | 16.3  | 24.5  |
| 100 | 12.7  | 10.4  | 15.6  |

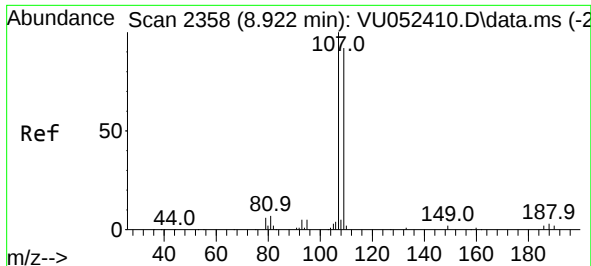


#49  
Dibromochloromethane  
Concen: 5.889 ug/L  
RT: 8.806 min Scan# 2322  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion: 129 Resp: 92976

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.2  | 52.8  | 98.2  |





#50

1,2-Dibromoethane

Concen: 5.719 ug/L

RT: 8.918 min Scan# 21

Delta R.T. -0.003 min

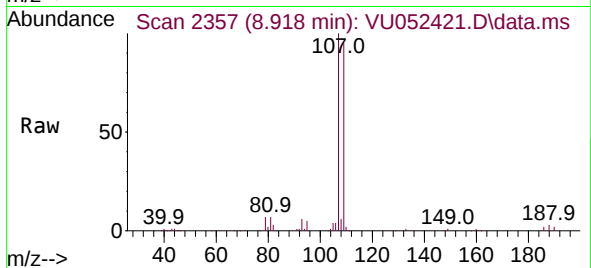
Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

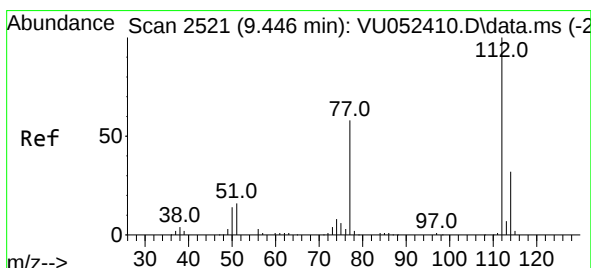
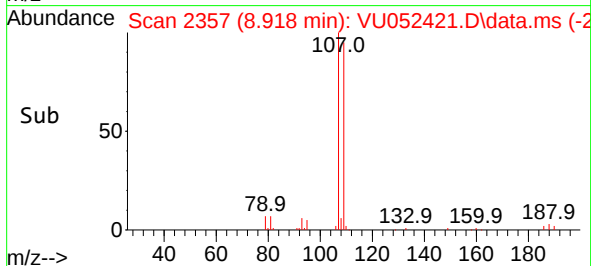
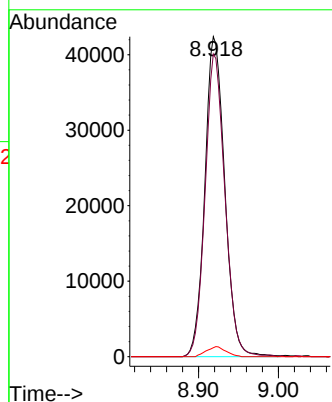
Instrument :

MSVOA\_U

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 73433 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 94.6  | 64.9  | 120.5 |
| 188      | 2.8   | 2.6   | 4.0   |



#51

Chlorobenzene

Concen: 5.564 ug/L

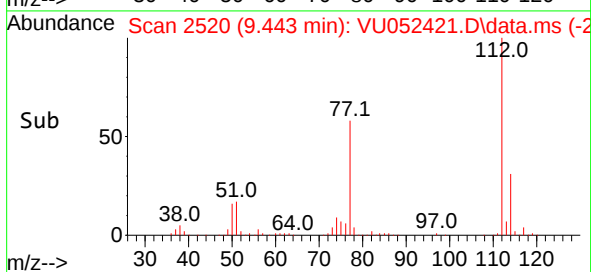
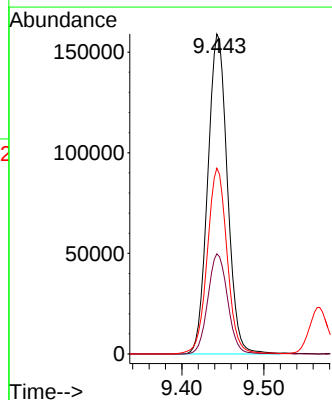
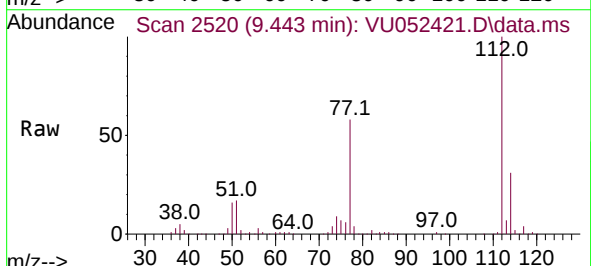
RT: 9.443 min Scan# 2520

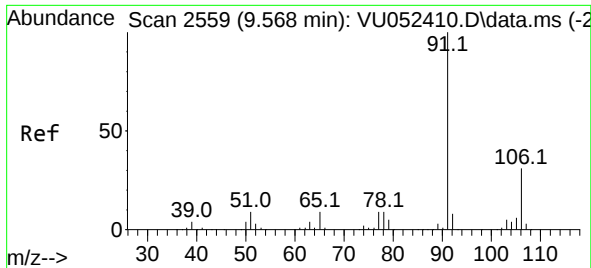
Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 264389 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.3  | 22.2  | 41.2   |
| 77       | 58.0  | 46.6  | 70.0   |

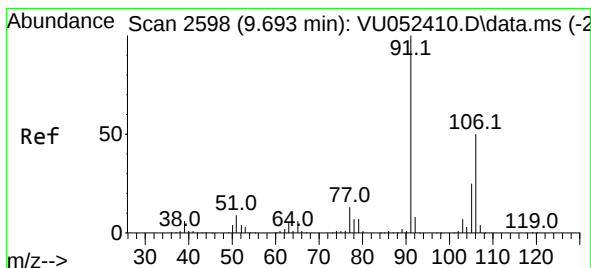
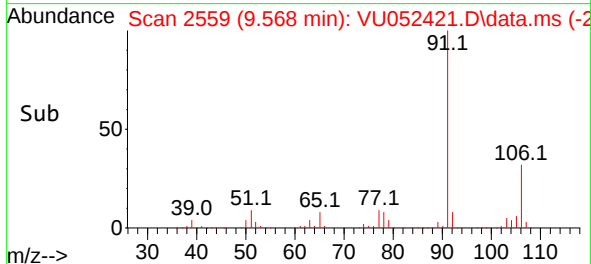
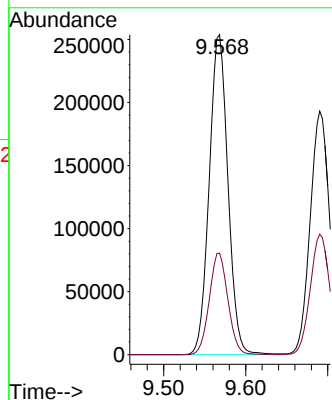
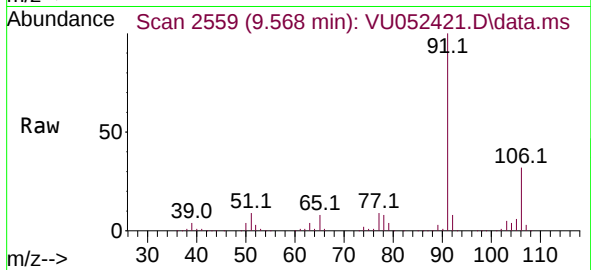




#52  
Ethylbenzene  
Concen: 5.551 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

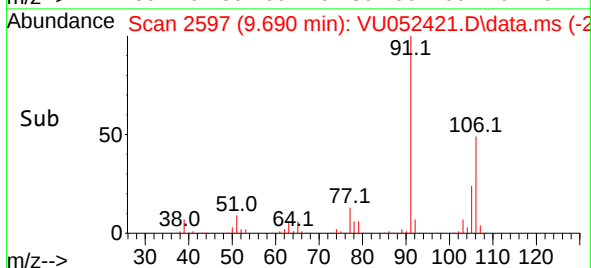
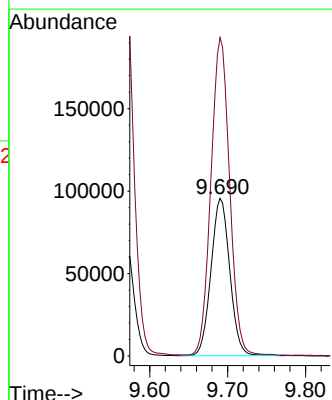
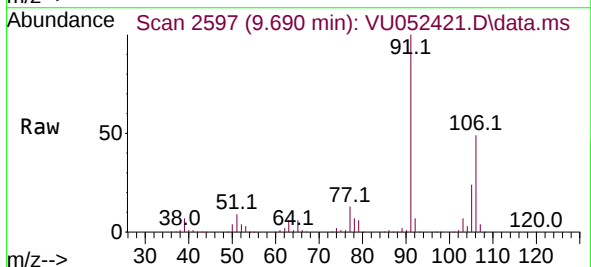
Instrument :  
MSVOA\_U  
ClientSampleId :

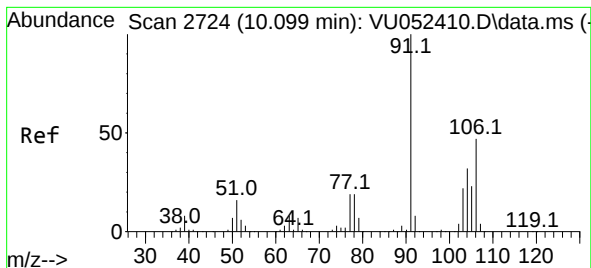
Tgt Ion: 91 Resp: 402185  
Ion Ratio Lower Upper  
91 100  
106 31.8 22.3 41.3



#53  
m,p-Xylene  
Concen: 5.696 ug/L  
RT: 9.690 min Scan# 2597  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion: 106 Resp: 159792  
Ion Ratio Lower Upper  
106 100  
91 202.1 137.7 255.7





#54

o-Xylene

Concen: 5.683 ug/L

RT: 10.099 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

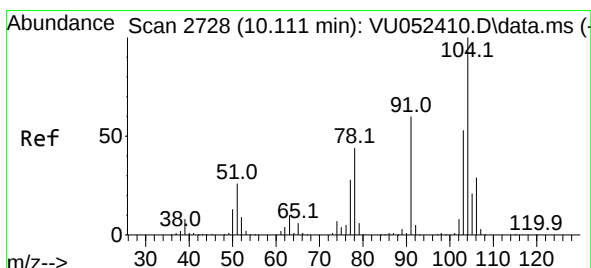
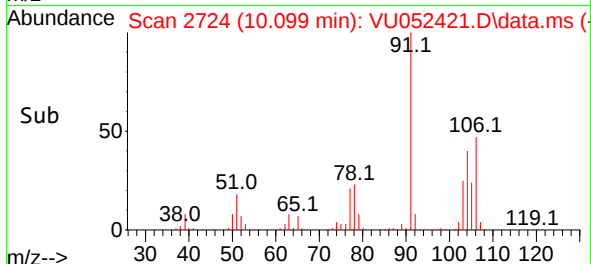
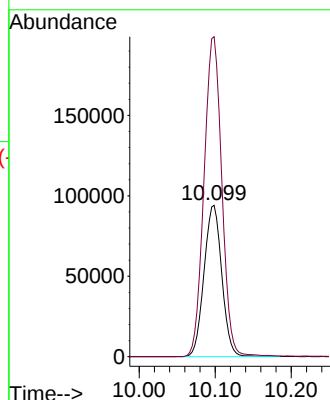
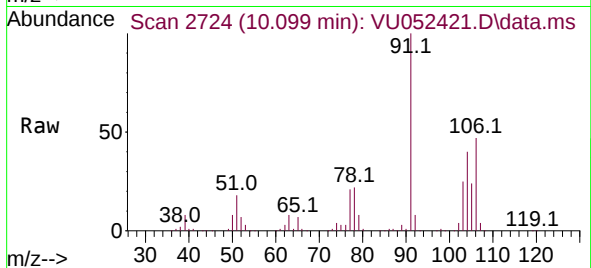
ClientSampleId :

Tgt Ion:106 Resp: 152816

Ion Ratio Lower Upper

106 100

91 211.3 151.5 281.5



#55

Styrene

Concen: 5.798 ug/L

RT: 10.111 min Scan# 2728

Delta R.T. 0.000 min

Lab File: VU052421.D

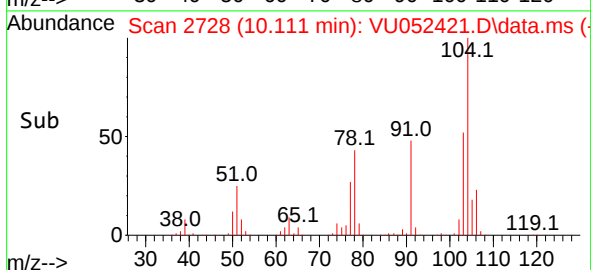
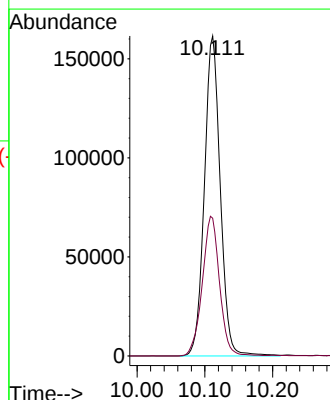
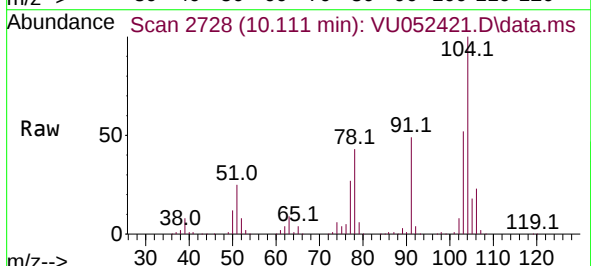
Acq: 15 Dec 2022 17:14

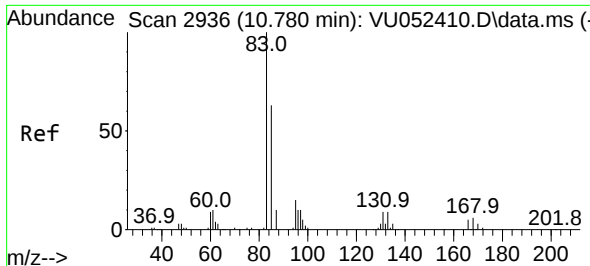
Tgt Ion:104 Resp: 263322

Ion Ratio Lower Upper

104 100

78 43.1 30.6 56.8

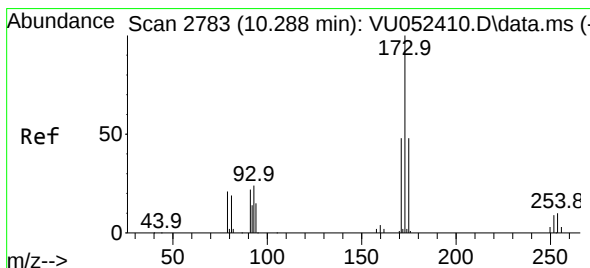
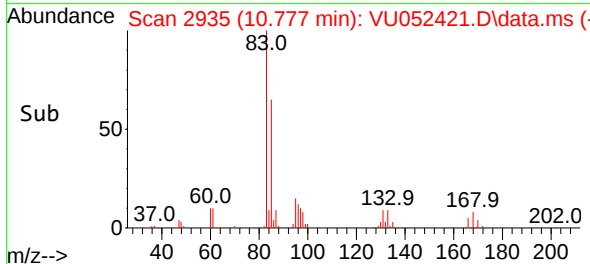
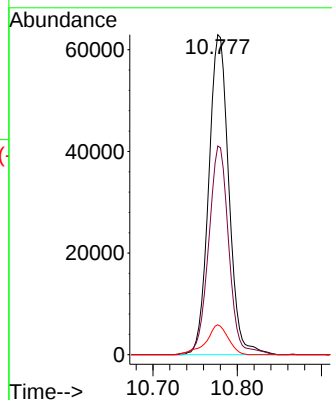
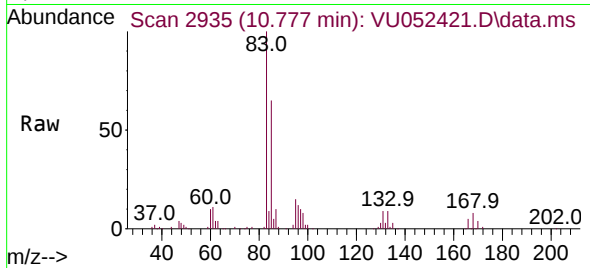




#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.924 ug/L  
RT: 10.777 min Scan# 2935  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

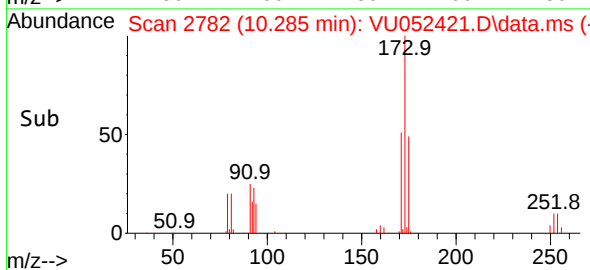
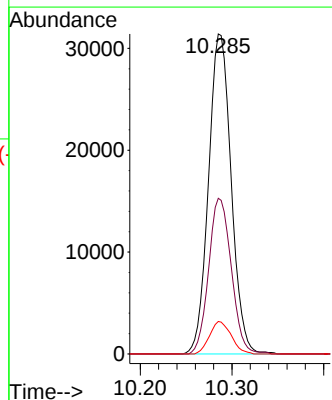
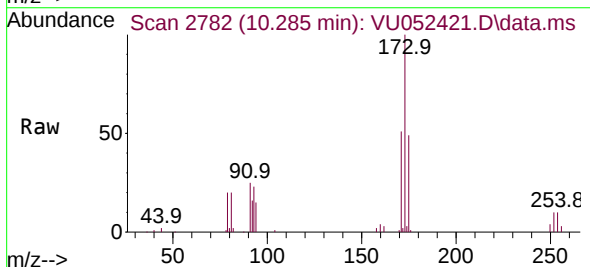
Instrument :  
MSVOA\_U  
ClientSampleId :

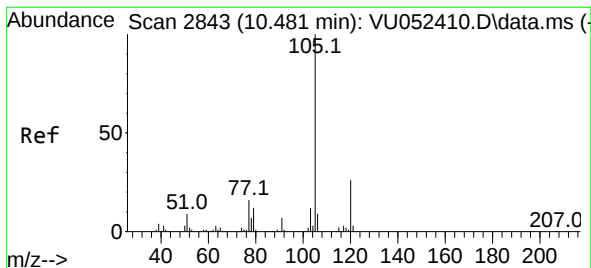
Tgt Ion: 83 Resp: 104305  
Ion Ratio Lower Upper  
83 100  
85 65.2 45.7 84.9  
131 9.3 7.6 11.4



#59  
Bromoform  
Concen: 5.475 ug/L  
RT: 10.285 min Scan# 2782  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion:173 Resp: 53968  
Ion Ratio Lower Upper  
173 100  
175 48.6 37.2 55.8  
254 9.7 7.0 10.6





#60

Isopropylbenzene

Concen: 5.325 ug/L

RT: 10.481 min Scan# 2843

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

ClientSampleId :

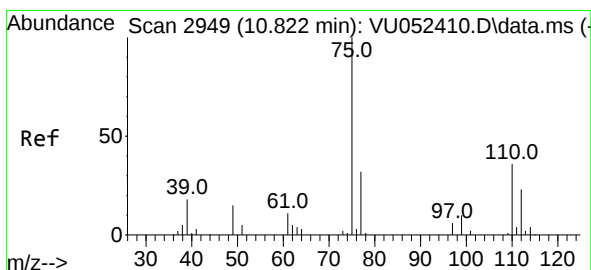
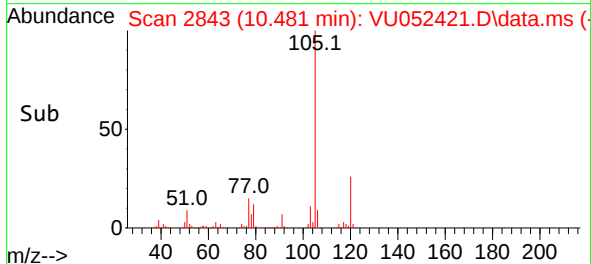
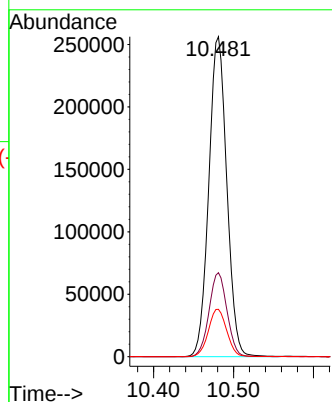
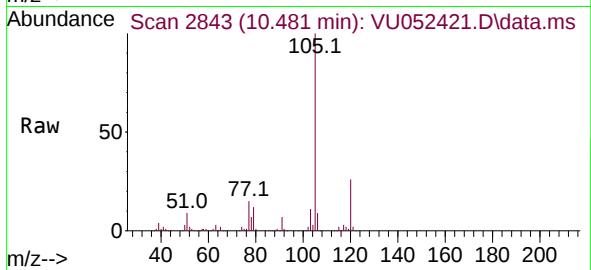
Tgt Ion:105 Resp: 400248

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

77 15.2 12.5 18.7



#61

1,2,3-Trichloropropane

Concen: 5.190 ug/L

RT: 10.819 min Scan# 2948

Delta R.T. -0.003 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

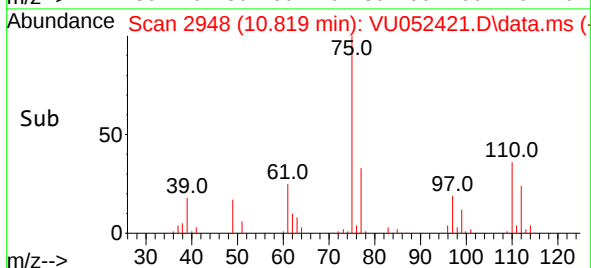
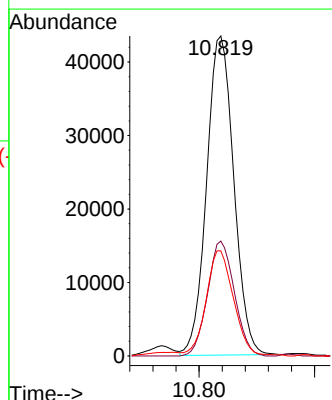
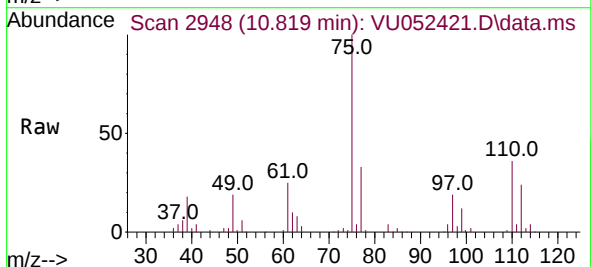
Tgt Ion: 75 Resp: 71081

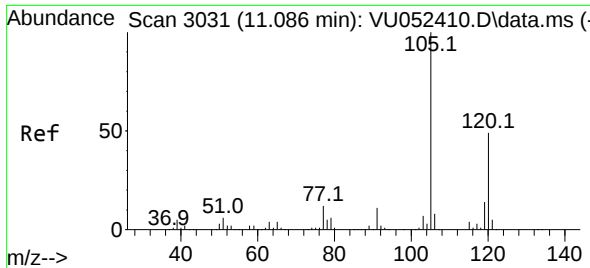
Ion Ratio Lower Upper

75 100

110 35.4 28.3 42.5

77 33.4 26.2 39.2

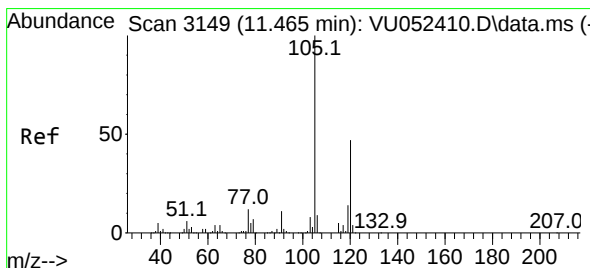
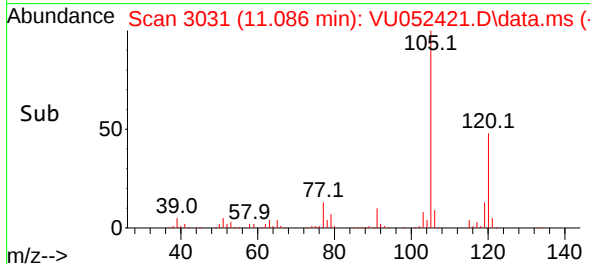
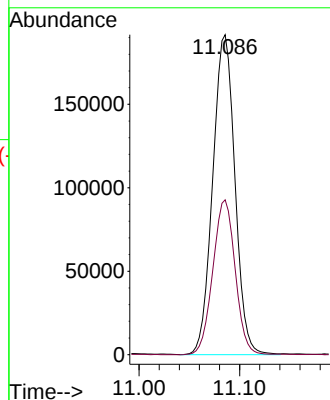
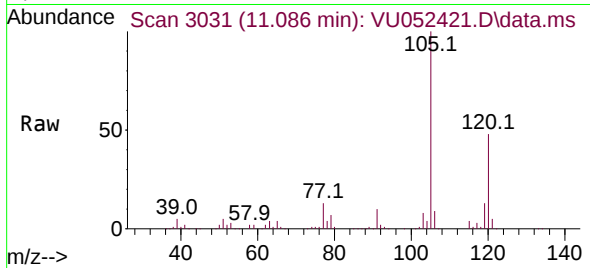




#62  
 1,3,5-Trimethylbenzene  
 Concen: 4.898 ug/L  
 RT: 11.086 min Scan# 3031  
 Delta R.T. 0.000 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

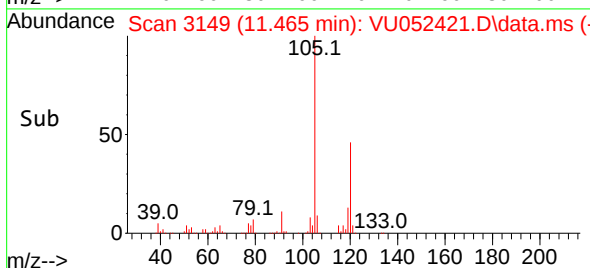
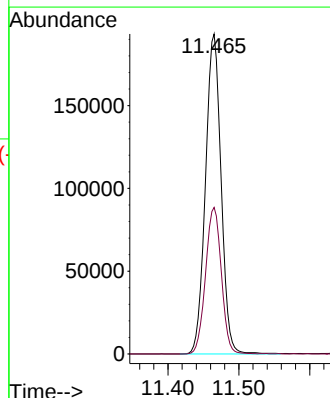
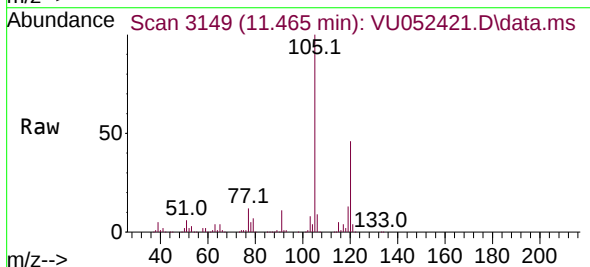
Instrument :  
 MSVOA\_U  
 ClientSampleId :

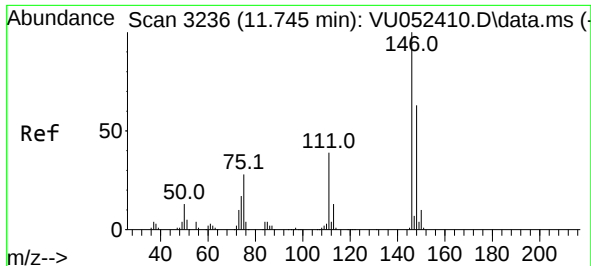
Tgt Ion:105 Resp: 294333  
 Ion Ratio Lower Upper  
 105 100  
 120 48.6 38.7 58.1



#63  
 1,2,4-Trimethylbenzene  
 Concen: 4.962 ug/L  
 RT: 11.465 min Scan# 3149  
 Delta R.T. 0.000 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Tgt Ion:105 Resp: 295935  
 Ion Ratio Lower Upper  
 105 100  
 120 46.2 36.6 55.0

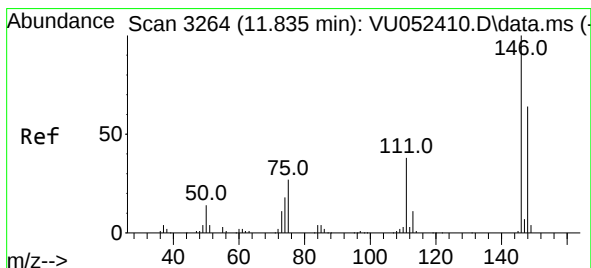
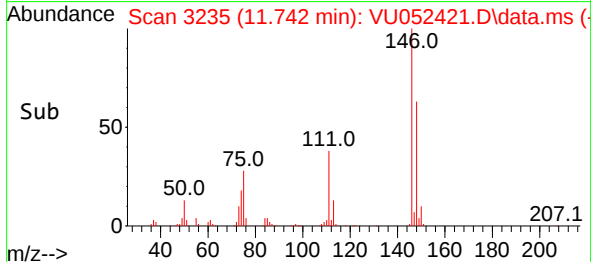
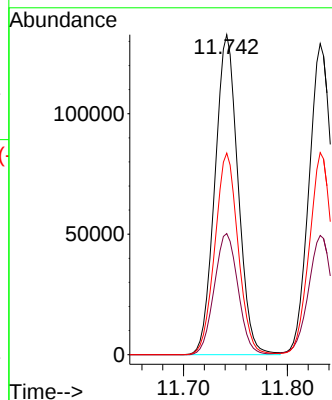
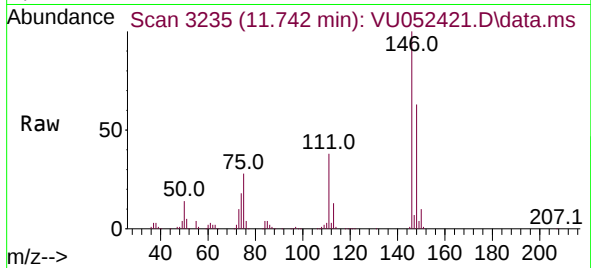




#64  
1,3-Dichlorobenzene  
Concen: 5.358 ug/L  
RT: 11.742 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

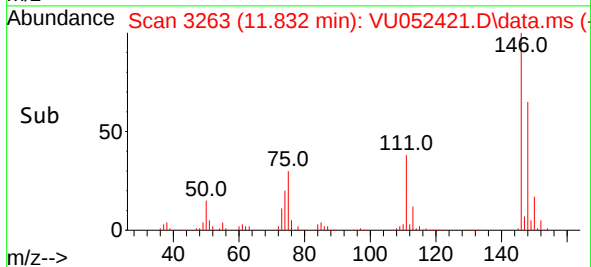
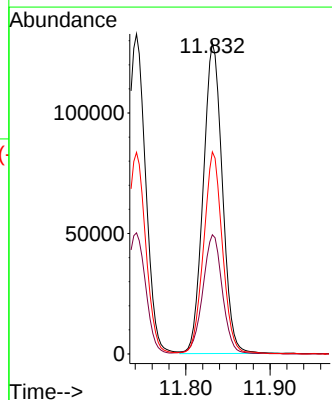
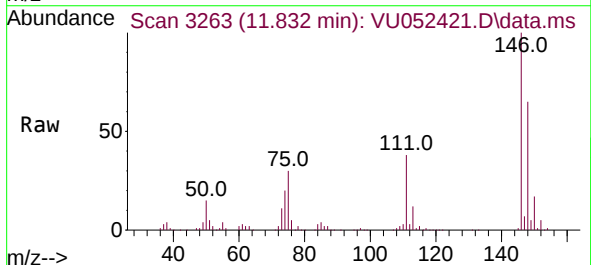
Instrument :  
MSVOA\_U  
ClientSampleId :

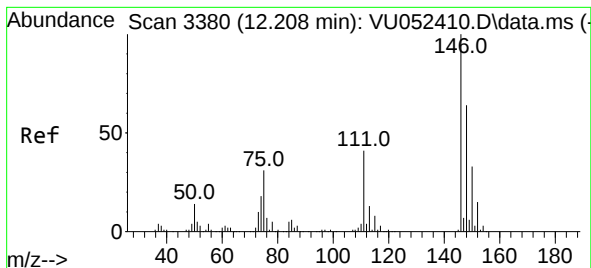
Tgt Ion:146 Resp: 205650  
Ion Ratio Lower Upper  
146 100  
111 37.9 28.6 53.2  
148 63.0 45.4 84.2



#65  
1,4-Dichlorobenzene  
Concen: 5.319 ug/L  
RT: 11.832 min Scan# 3263  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion:146 Resp: 203603  
Ion Ratio Lower Upper  
146 100  
111 38.3 26.9 50.1  
148 65.0 45.1 83.7





#67

1,2-Dichlorobenzene

Concen: 5.304 ug/L

RT: 12.208 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

Instrument :

MSVOA\_U

ClientSampleId :

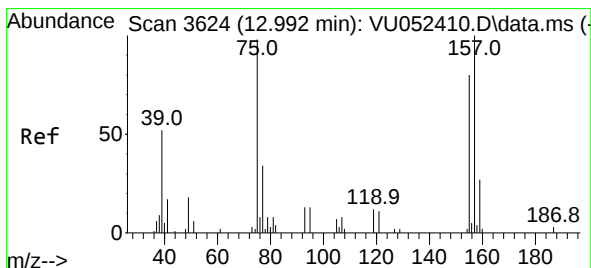
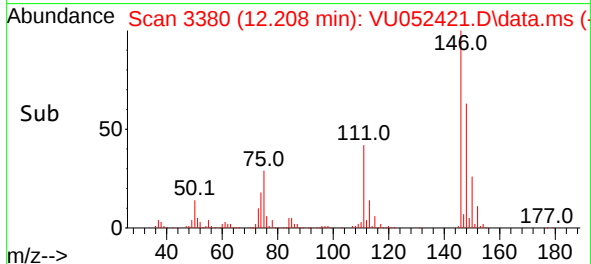
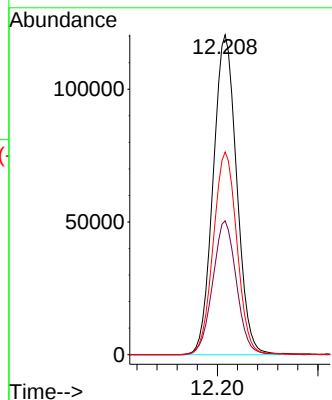
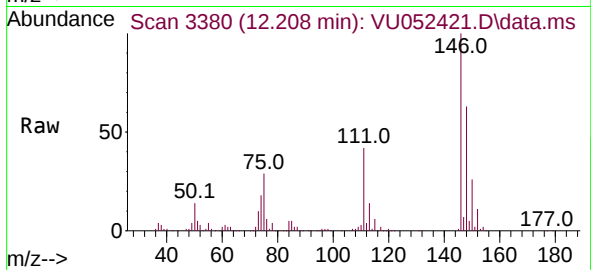
Tgt Ion:146 Resp: 196044

Ion Ratio Lower Upper

146 100

111 41.9 32.7 49.1

148 63.4 50.6 75.8



#68

1,2-Dibromo-3-chloropropane

Concen: 4.911 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. 0.000 min

Lab File: VU052421.D

Acq: 15 Dec 2022 17:14

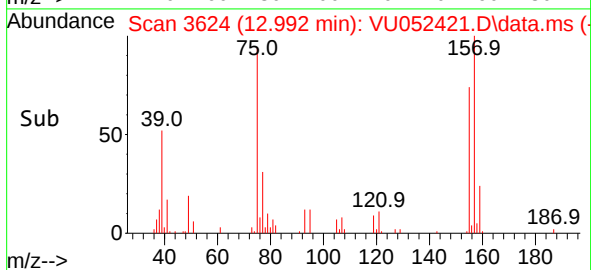
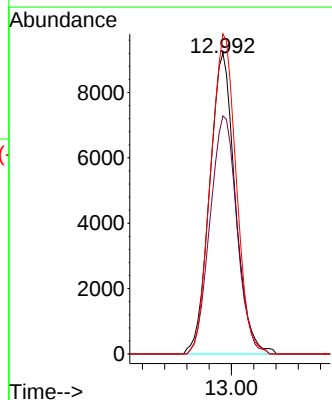
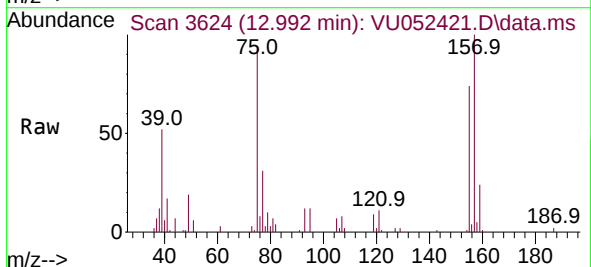
Tgt Ion: 75 Resp: 14720

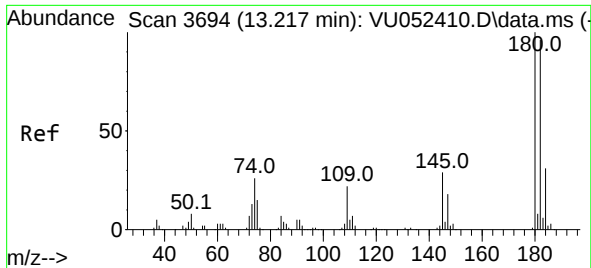
Ion Ratio Lower Upper

75 100

155 79.1 65.4 98.2

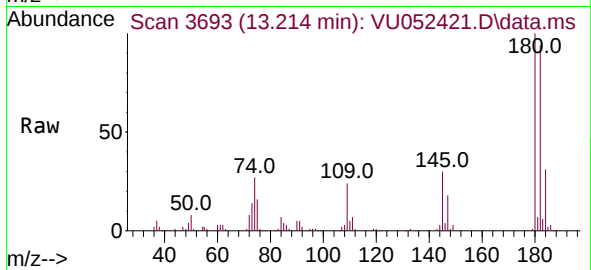
157 106.4 80.5 120.7



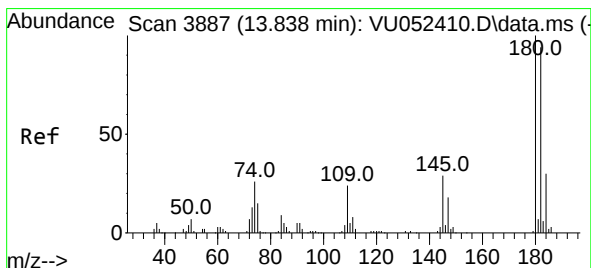
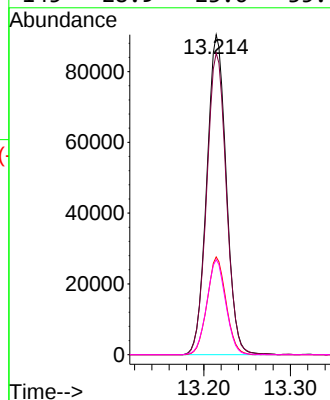
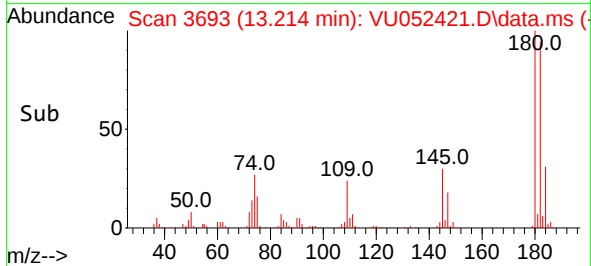


#69  
 1,3,5-Trichlorobenzene  
 Concen: 5.181 ug/L  
 RT: 13.214 min Scan# 3693  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :

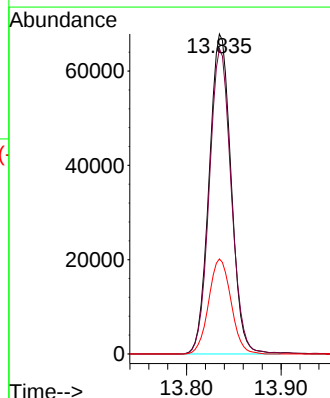
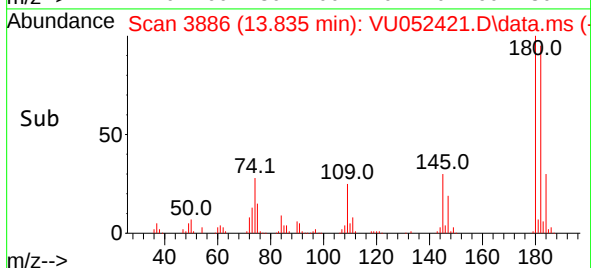
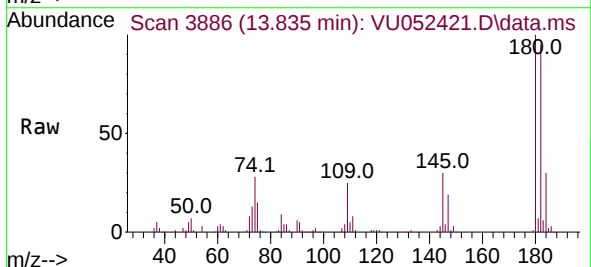


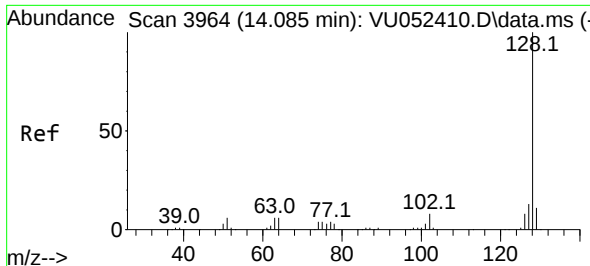
Tgt Ion:180 Resp: 141012  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 75.7 113.5  
 184 29.7 24.3 36.5  
 145 28.9 23.6 35.4



#70  
 1,2,4-trichlorobenzene  
 Concen: 5.273 ug/L  
 RT: 13.835 min Scan# 3886  
 Delta R.T. -0.003 min  
 Lab File: VU052421.D  
 Acq: 15 Dec 2022 17:14

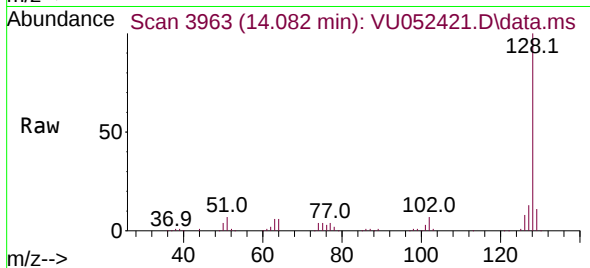
Tgt Ion:180 Resp: 109296  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 76.3 114.5  
 145 30.2 24.6 36.8



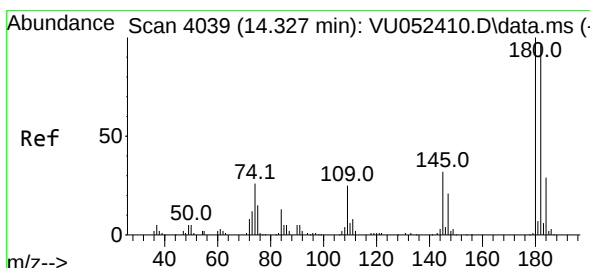
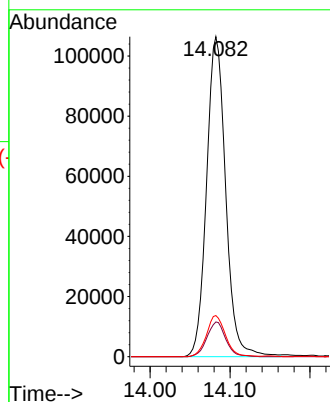
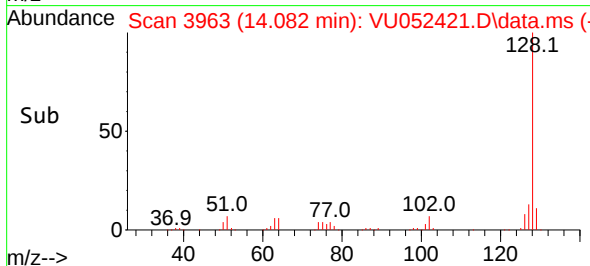


#71  
Naphthalene  
Concen: 4.552 ug/L  
RT: 14.082 min Scan# 3964  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 177120  
Ion Ratio Lower Upper  
128 100  
129 10.7 8.3 12.5  
127 12.8 10.2 15.4



#72  
1,2,3-Trichlorobenzene  
Concen: 5.177 ug/L  
RT: 14.323 min Scan# 4038  
Delta R.T. -0.003 min  
Lab File: VU052421.D  
Acq: 15 Dec 2022 17:14

Tgt Ion:180 Resp: 105563  
Ion Ratio Lower Upper  
180 100  
182 94.7 75.7 113.5  
145 31.4 24.5 36.7

