

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121422\  
 Data File : VU052393.D  
 Acq On : 14 Dec 2022 11:20  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005107

Quant Time: Dec 14 21:34:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 14 03:17:56 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 271262   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 268395   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 139975   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600  | 65    | 83352    | 3.159    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 63.200%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 75207    | 3.670    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 73.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.568  | 65    | 35062    | 3.707    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 74.200%  |
| 20) 2-Butanone-d5             | 4.639  | 46    | 270806   | 56.621   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 113.240% |
| 24) Chloroform-d              | 5.063  | 84    | 175526   | 4.527    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 88609    | 4.525    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 90.400%  |
| 32) Benzene-d6                | 5.726  | 84    | 347283   | 4.358    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 113158   | 4.589    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 91.800%  |
| 41) Toluene-d8                | 7.896  | 98    | 323803   | 4.491    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 89.800%  |
| 43) trans-1,3-Dichloroprop... | 8.179  | 79    | 39150    | 4.357    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 87.200%  |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 203885   | 53.538   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 107.080% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 107264   | 5.017    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 100.400% |
| 66) 1,2-Dichlorobenzene-d4    | 12.192 | 152   | 117149   | 4.371    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 87.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 100317   | 4.264    | ug/L   | 97       |
| 3) Chloromethane              | 1.520  | 50    | 109874   | 3.578    | ug/L   | 100      |
| 5) Vinyl chloride             | 1.607  | 62    | 122523   | 4.153    | ug/L   | 100      |
| 6) Bromomethane               | 1.861  | 94    | 74139    | 4.897    | ug/L   | 99       |
| 8) Chloroethane               | 1.938  | 64    | 74847    | 4.080    | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 2.141  | 101   | 145702   | 4.490    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.584  | 101   | 90340    | 4.553    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.581  | 96    | 88522    | 4.499    | ug/L   | 89       |
| 13) Acetone                   | 2.662  | 43    | 178535   | 54.972   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.793  | 76    | 279146   | 4.098    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.961  | 43    | 40514    | 4.809    | ug/L   | 99       |
| 16) Methylene chloride        | 3.047  | 84    | 111651   | 4.194    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 3.362  | 73    | 195186   | 4.431    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96    | 92055    | 4.364    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 169758   | 4.465    | ug/L   | 99       |
| 21) 2-Butanone                | 4.719  | 43    | 271200   | 52.099   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96    | 99573    | 4.498    | ug/L   | 99       |
| 23) Bromochloromethane        | 4.973  | 128   | 48877    | 4.615    | ug/L   | 94       |
| 25) Chloroform                | 5.086  | 83    | 172811   | 4.486    | ug/L   | 97       |

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 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

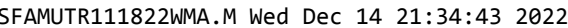
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005107

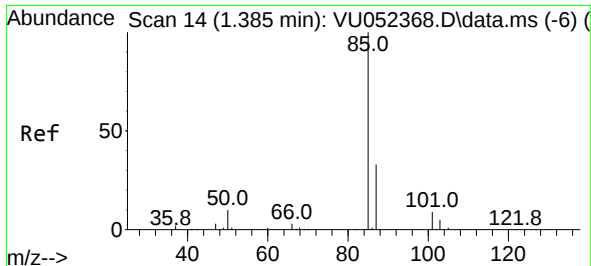
Quant Time: Dec 14 21:34:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 14 03:17:56 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 106629   | 4.519  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97   | 136588   | 4.587  | ug/L  | 99       |
| 30) Cyclohexane               | 5.388  | 56   | 130397   | 4.510  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 5.523  | 117  | 114094   | 4.509  | ug/L  | 99       |
| 33) Benzene                   | 5.774  | 78   | 399058   | 4.569  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 97455    | 4.473  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.761  | 83   | 146786   | 4.684  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 103741   | 4.587  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.102  | 83   | 126330   | 4.582  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 126238   | 4.348  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 591570   | 50.076 | ug/L  | 99       |
| 42) Toluene                   | 7.967  | 91   | 422277   | 4.700  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 112828   | 4.538  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 80012    | 4.708  | ug/L  | 97       |
| 47) Tetrachloroethene         | 8.549  | 164  | 76839    | 4.602  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.684  | 43   | 467473   | 53.977 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.806  | 129  | 87210    | 4.582  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 74111    | 4.787  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.443  | 112  | 259930   | 4.538  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.568  | 91   | 400703   | 4.587  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.693  | 106  | 159764   | 4.723  | ug/L  | 97       |
| 54) o-Xylene                  | 10.099 | 106  | 154849   | 4.777  | ug/L  | 96       |
| 55) Styrene                   | 10.111 | 104  | 263507   | 4.813  | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 102629   | 4.835  | ug/L  | 97       |
| 59) Bromoform                 | 10.288 | 173  | 52310    | 4.537  | ug/L  | 99       |
| 60) Isopropylbenzene          | 10.481 | 105  | 397118   | 4.517  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75   | 71491    | 4.463  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 300214   | 4.271  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 305044   | 4.372  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 203244   | 4.527  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 203568   | 4.547  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 194544   | 4.500  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 14635    | 4.175  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 146306   | 4.596  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 114155   | 4.709  | ug/L  | 99       |
| 71) Naphthalene               | 14.082 | 128  | 201398   | 4.425  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 114124   | 4.785  | ug/L  | 98       |

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

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QLast Update : Wed Dec 14 03:17:56 2022  
Response via : Initial Calibration

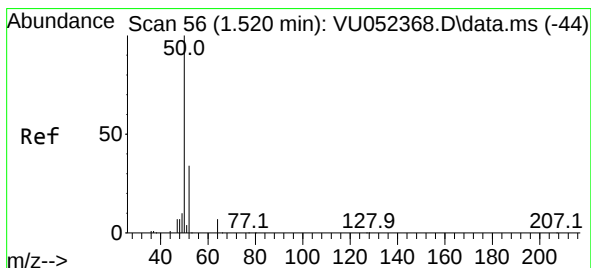
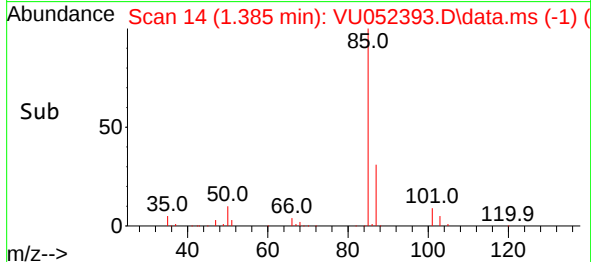
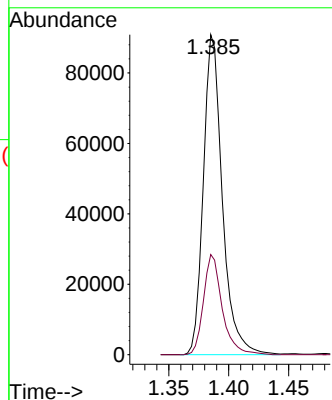
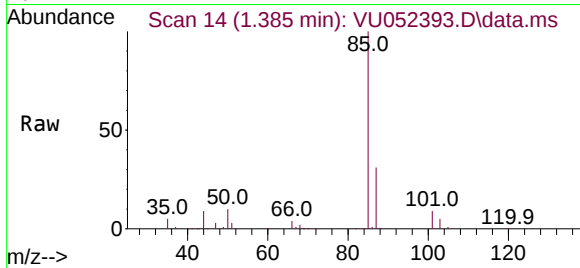




#2  
Dichlorodifluoromethane  
Concen: 4.264 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

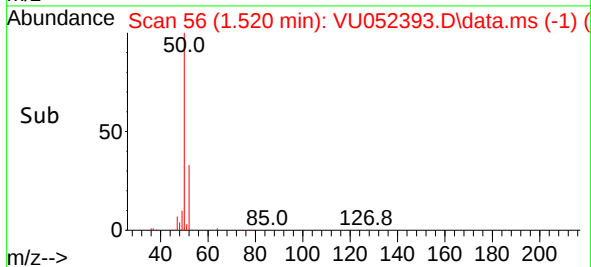
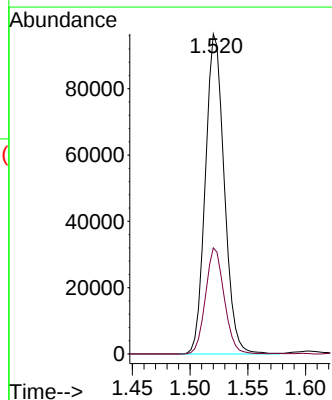
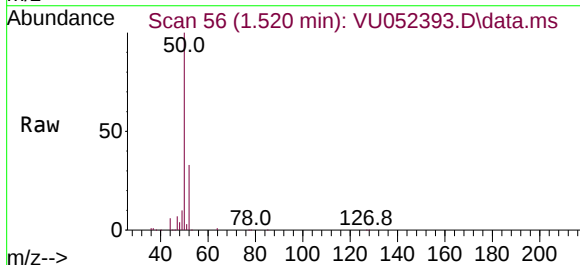
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

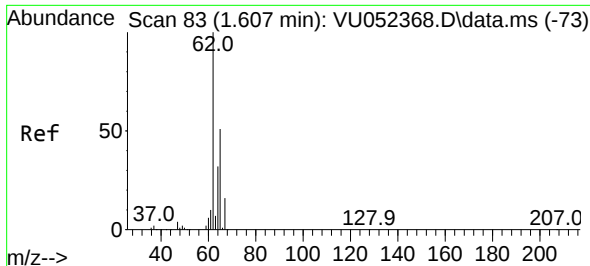
Tgt Ion: 85 Resp: 100317  
Ion Ratio Lower Upper  
85 100  
87 30.8 25.8 38.8



#3  
Chloromethane  
Concen: 3.578 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 50 Resp: 109874  
Ion Ratio Lower Upper  
50 100  
52 33.2 23.4 43.4

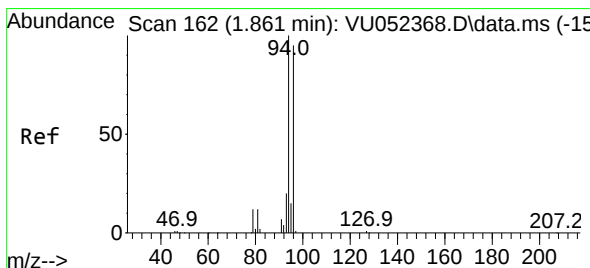
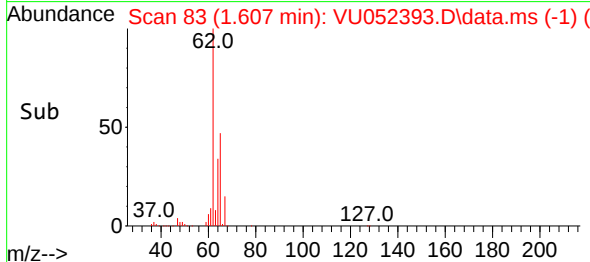
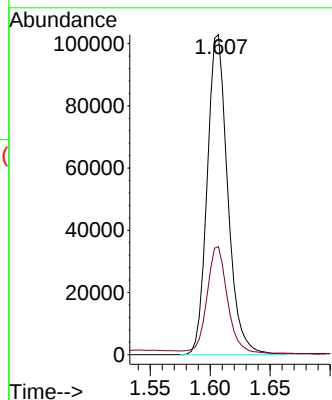
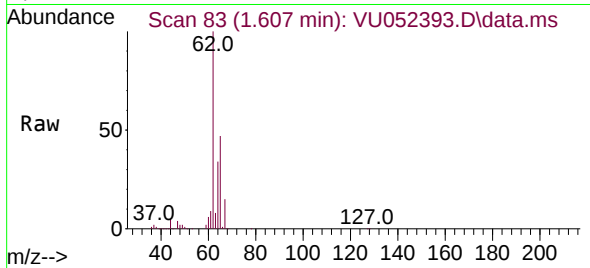




#5  
 Vinyl chloride  
 Concen: 4.153 ug/L  
 RT: 1.607 min Scan# 83  
 Delta R.T. 0.000 min  
 Lab File: VU052393.D  
 Acq: 14 Dec 2022 11:20

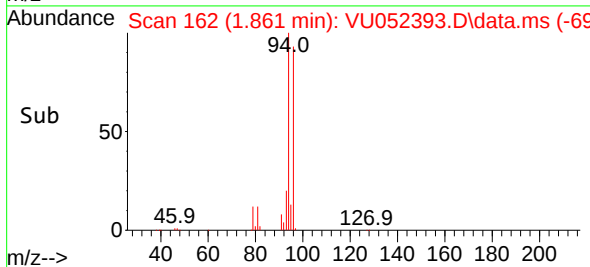
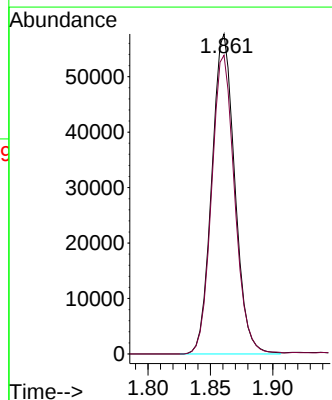
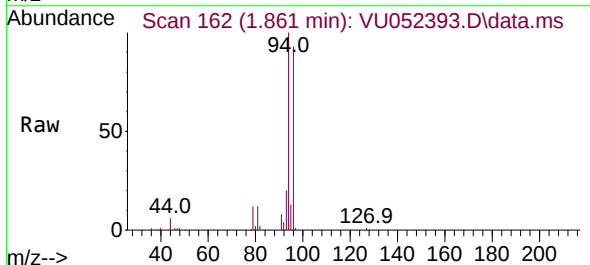
Instrument :  
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 ClientSampleId :  
 VSTD005107

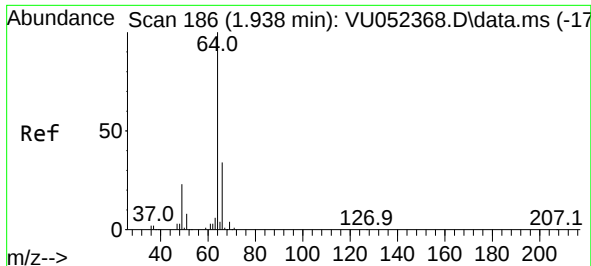
Tgt Ion: 62 Resp: 122523  
 Ion Ratio Lower Upper  
 62 100  
 64 33.8 23.5 43.7



#6  
 Bromomethane  
 Concen: 4.897 ug/L  
 RT: 1.861 min Scan# 162  
 Delta R.T. 0.000 min  
 Lab File: VU052393.D  
 Acq: 14 Dec 2022 11:20

Tgt Ion: 94 Resp: 74139  
 Ion Ratio Lower Upper  
 94 100  
 96 93.3 65.7 122.1

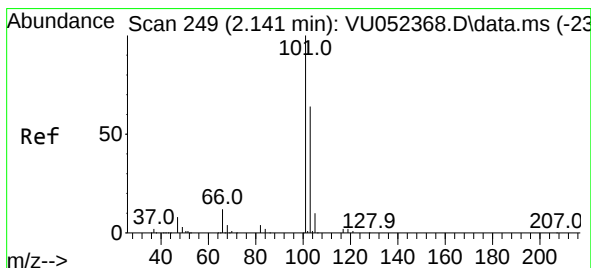
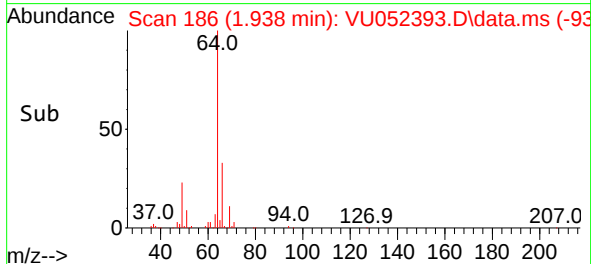
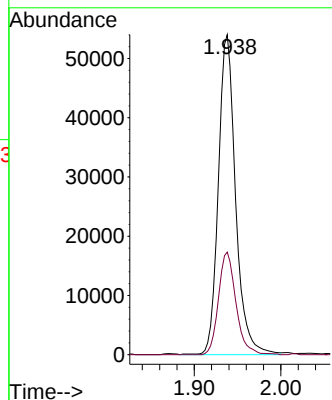
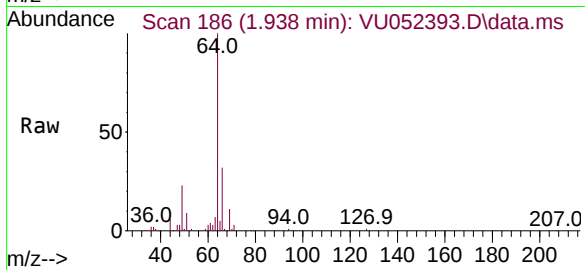




#8  
Chloroethane  
Concen: 4.080 ug/L  
RT: 1.938 min Scan# 186  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

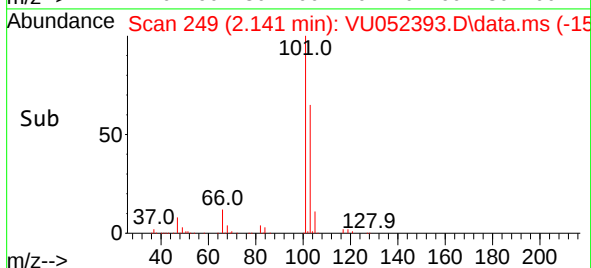
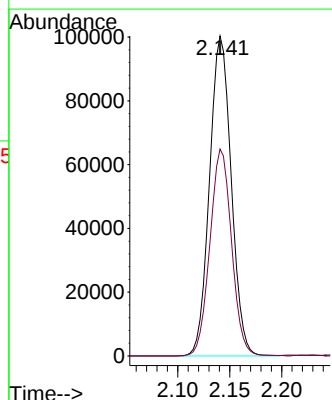
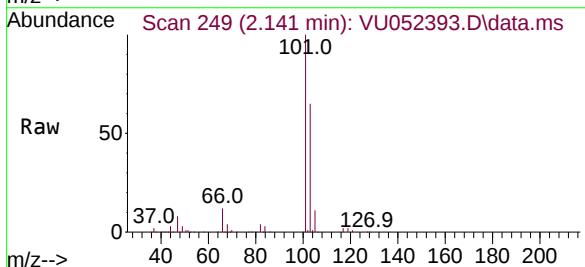
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

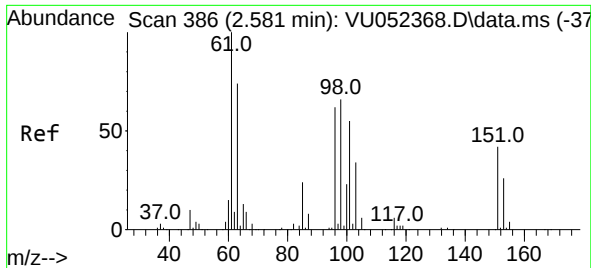
Tgt Ion: 64 Resp: 74847  
Ion Ratio Lower Upper  
64 100  
66 32.0 21.1 39.1



#9  
Trichlorofluoromethane  
Concen: 4.490 ug/L  
RT: 2.141 min Scan# 249  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 101 Resp: 145702  
Ion Ratio Lower Upper  
101 100  
103 64.6 51.6 77.4

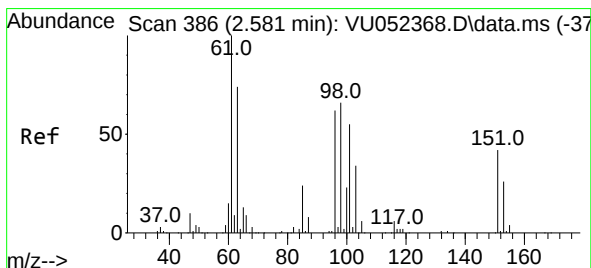
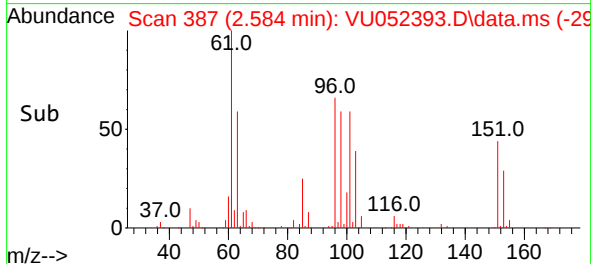
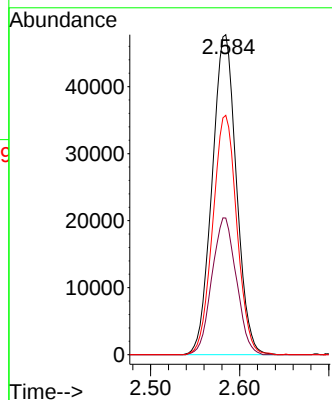
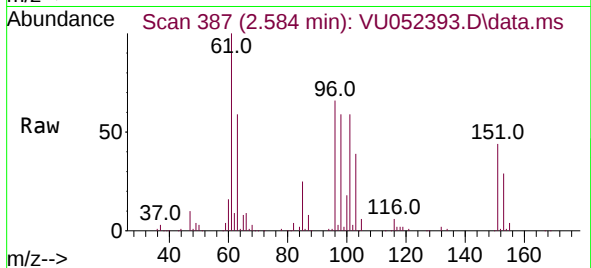




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 4.553 ug/L  
RT: 2.584 min Scan# 387  
Delta R.T. 0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

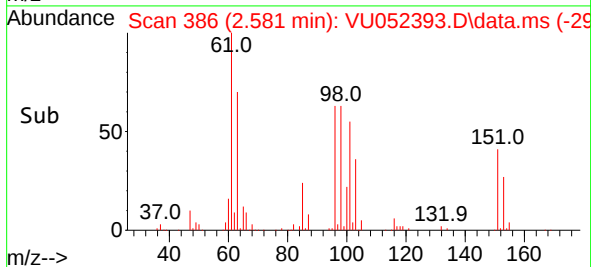
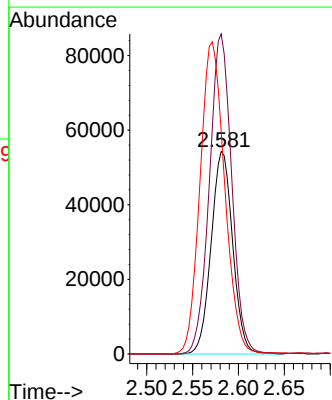
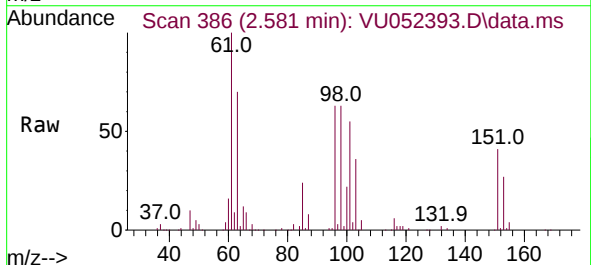
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

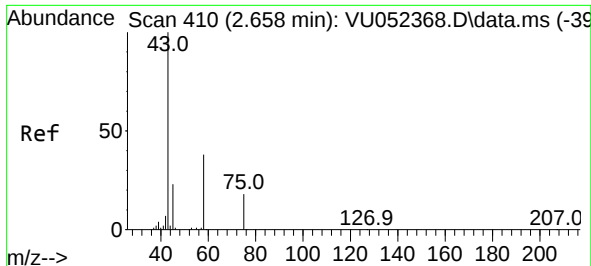
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Ion Ratio Lower Upper  
101 100  
85 43.0 33.8 50.6  
151 74.4 58.6 88.0



#12  
1,1-Dichloroethene  
Concen: 4.499 ug/L  
RT: 2.581 min Scan# 386  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 96 Resp: 88522  
Ion Ratio Lower Upper  
96 100  
61 158.1 114.8 213.2  
63 110.2 93.7 174.1





#13

Acetone

Concen: 54.972 ug/L

RT: 2.662 min Scan# 411

Delta R.T. 0.003 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

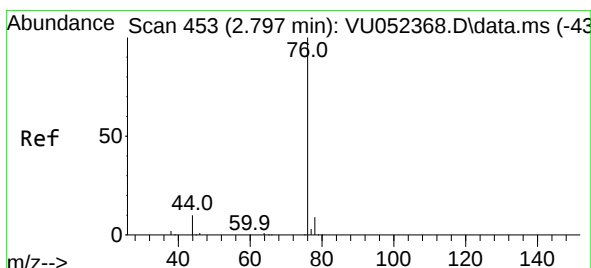
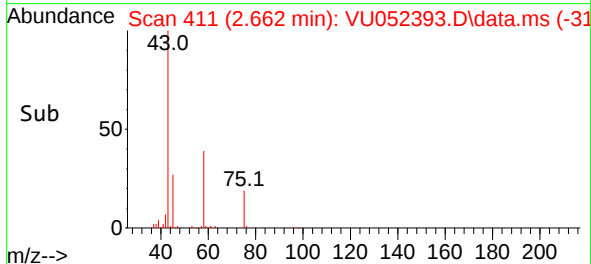
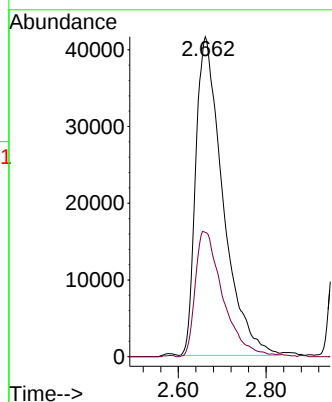
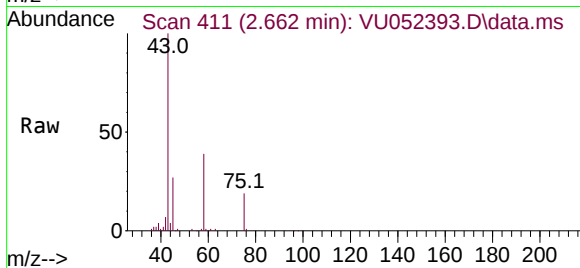
VSTD005107

Tgt Ion: 43 Resp: 178535

Ion Ratio Lower Upper

43 100

58 39.6 0.0 76.0



#14

Carbon disulfide

Concen: 4.098 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.003 min

Lab File: VU052393.D

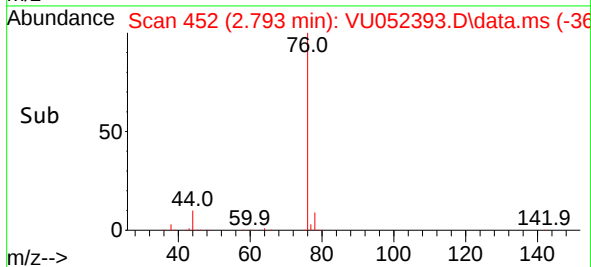
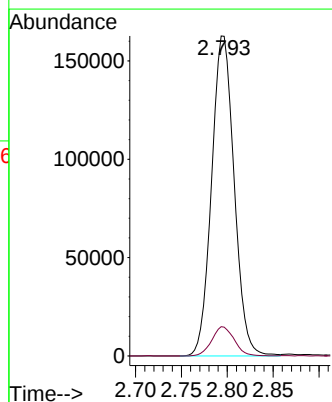
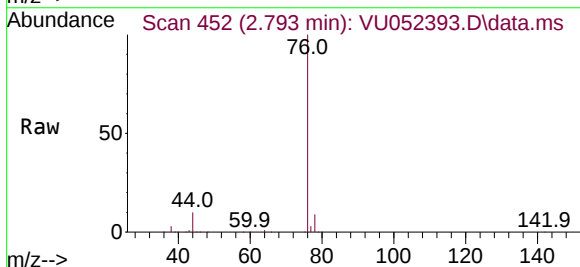
Acq: 14 Dec 2022 11:20

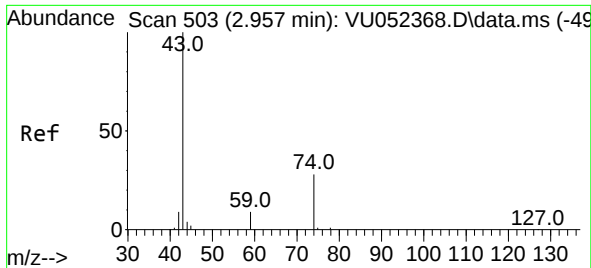
Tgt Ion: 76 Resp: 279146

Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.4

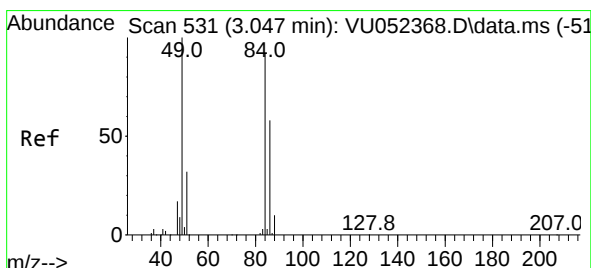
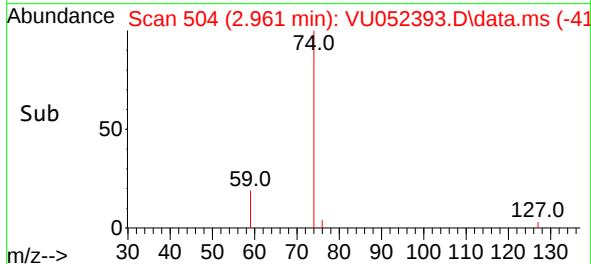
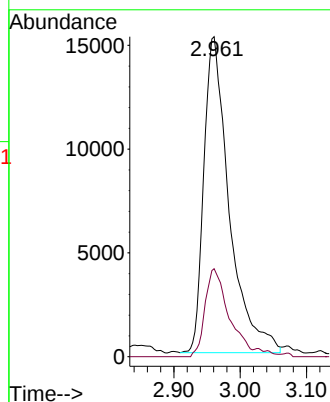
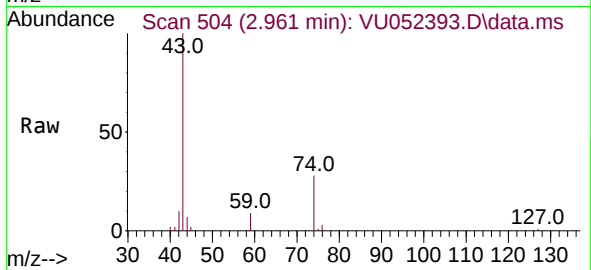




#15  
Methyl Acetate  
Concen: 4.809 ug/L  
RT: 2.961 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

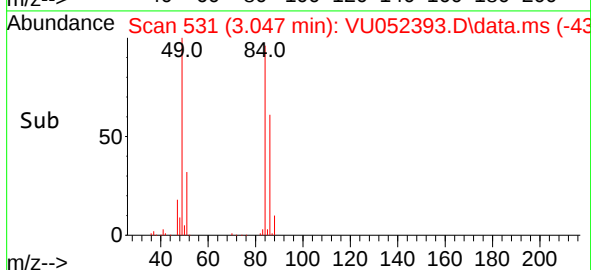
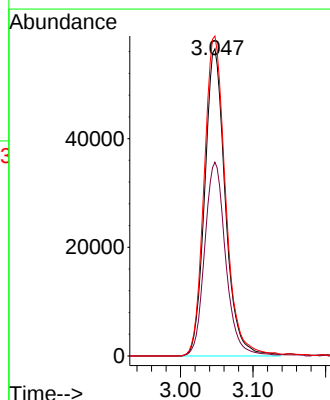
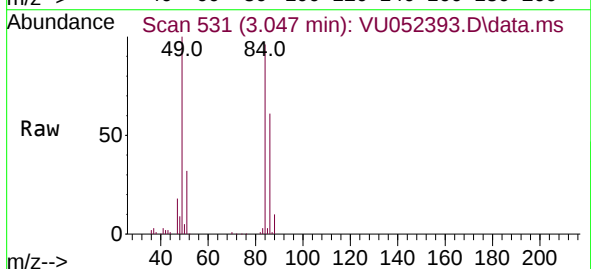
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

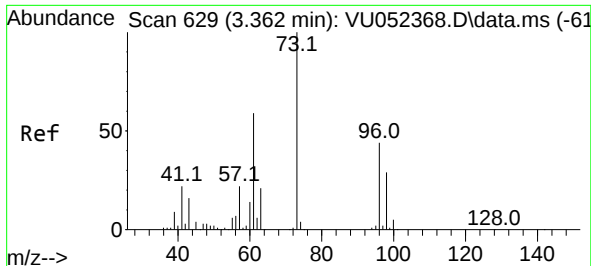
Tgt Ion: 43 Resp: 40514  
Ion Ratio Lower Upper  
43 100  
74 25.8 21.3 31.9



#16  
Methylene chloride  
Concen: 4.194 ug/L  
RT: 3.047 min Scan# 531  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 84 Resp: 111651  
Ion Ratio Lower Upper  
84 100  
86 63.1 43.8 81.4  
49 104.2 75.9 141.1





#17

Methyl tert-butyl Ether

Concen: 4.431 ug/L

RT: 3.362 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005107

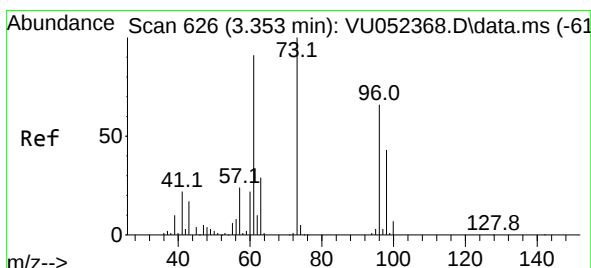
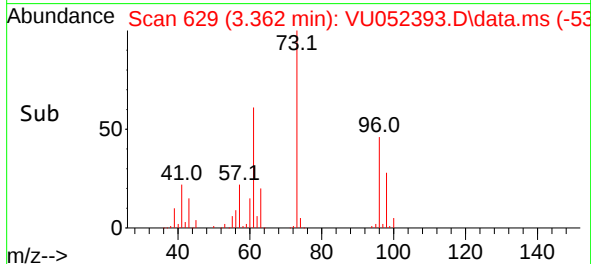
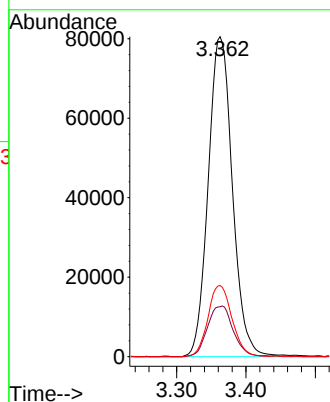
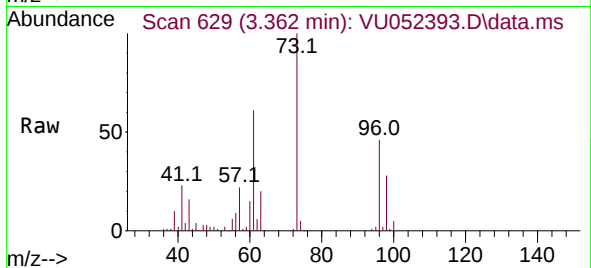
Tgt Ion: 73 Resp: 195186

Ion Ratio Lower Upper

73 100

43 16.9 13.2 19.8

57 22.2 17.8 26.8



#18

trans-1,2-Dichloroethene

Concen: 4.364 ug/L

RT: 3.353 min Scan# 626

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

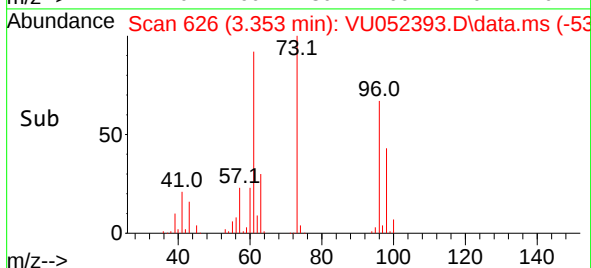
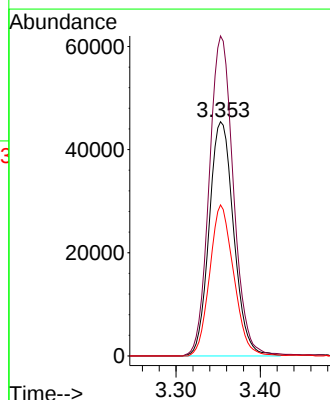
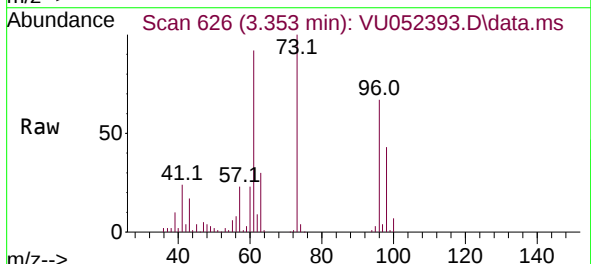
Tgt Ion: 96 Resp: 92055

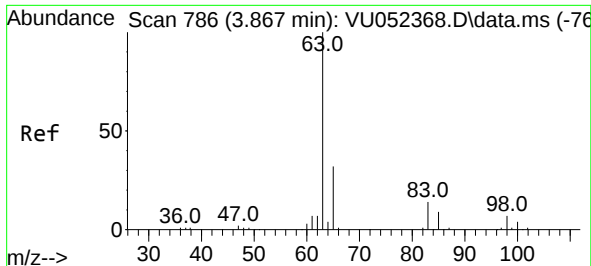
Ion Ratio Lower Upper

96 100

61 136.6 97.9 181.7

98 64.5 43.8 81.3

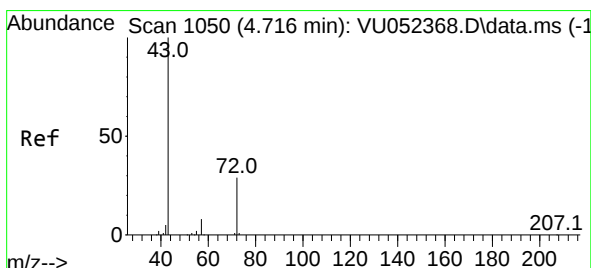
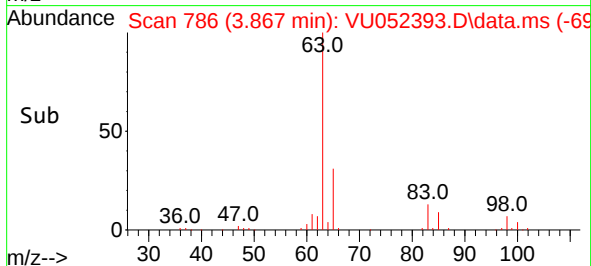
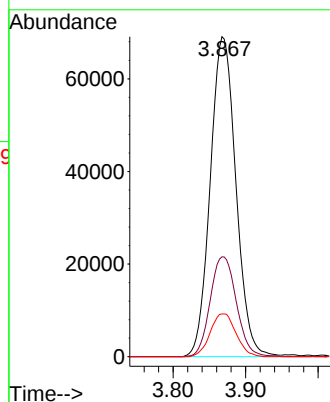
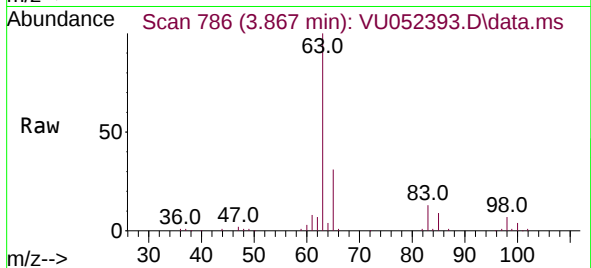




#19  
1,1-Dichloroethane  
Concen: 4.465 ug/L  
RT: 3.867 min Scan# 786  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

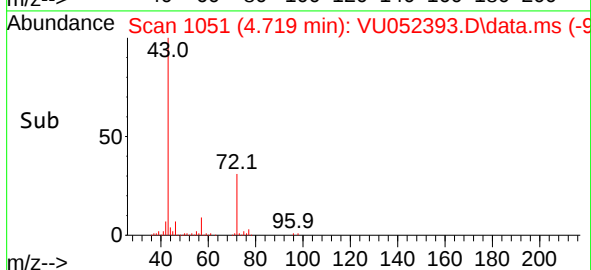
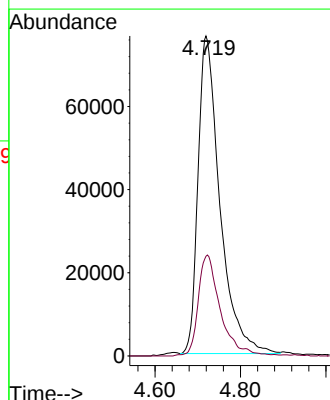
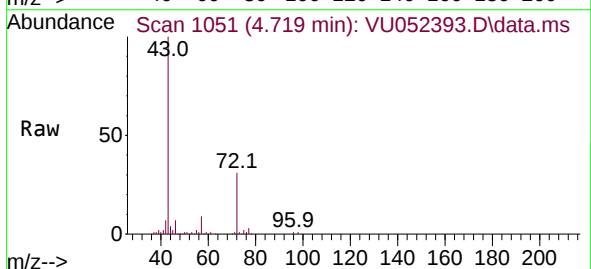
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

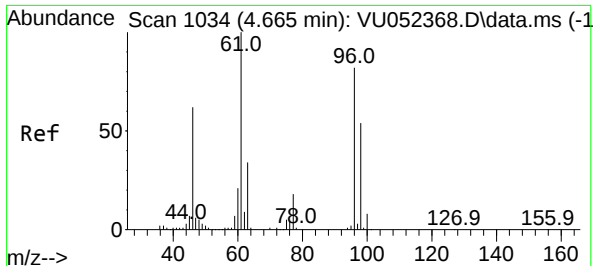
Tgt Ion: 63 Resp: 169758  
Ion Ratio Lower Upper  
63 100  
65 31.2 22.2 41.2  
83 13.3 9.2 17.0



#21  
2-Butanone  
Concen: 52.099 ug/L  
RT: 4.719 min Scan# 1051  
Delta R.T. 0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 43 Resp: 271200  
Ion Ratio Lower Upper  
43 100  
72 30.9 15.6 46.8

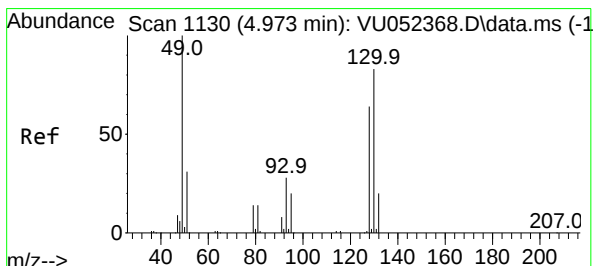
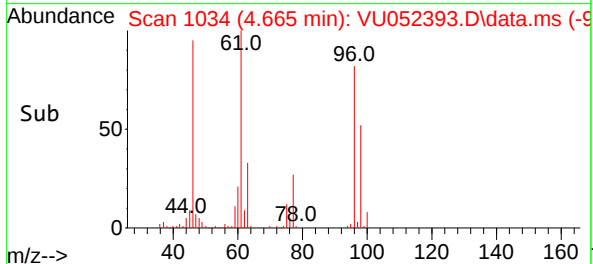
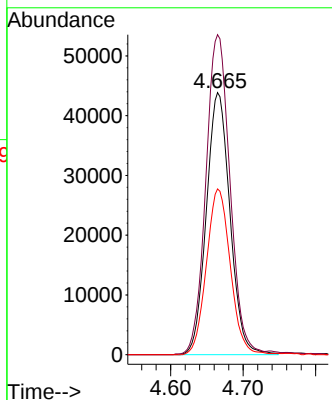
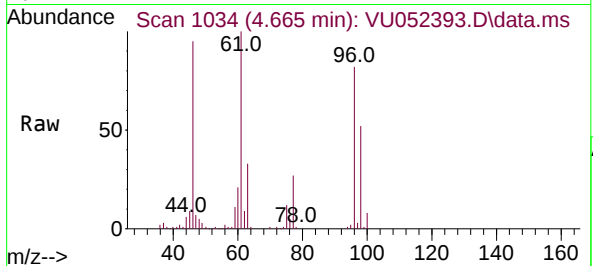




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.498 ug/L  
 RT: 4.665 min Scan# 1034  
 Delta R.T. 0.000 min  
 Lab File: VU052393.D  
 Acq: 14 Dec 2022 11:20

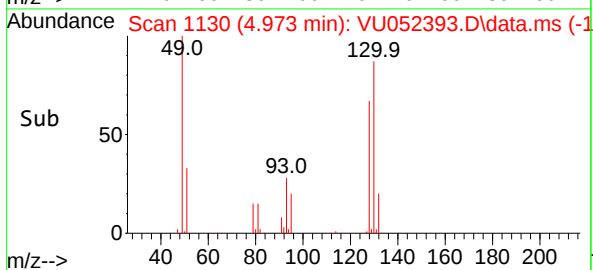
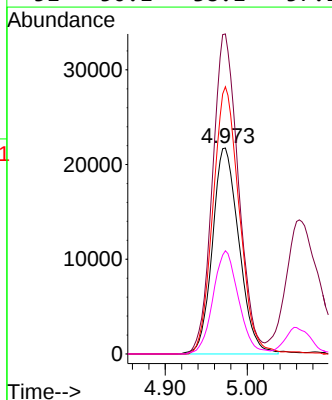
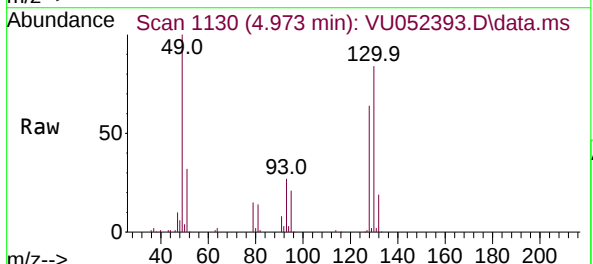
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005107

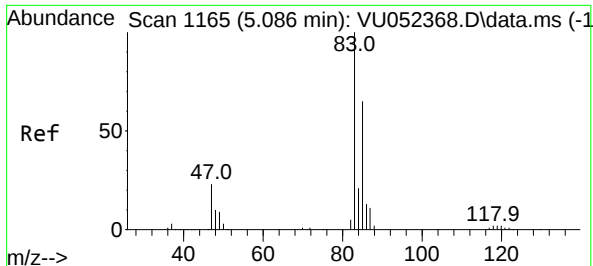
Tgt Ion: 96 Resp: 99573  
 Ion Ratio Lower Upper  
 96 100  
 61 122.1 85.1 158.1  
 98 63.3 42.8 79.6



#23  
 Bromochloromethane  
 Concen: 4.615 ug/L  
 RT: 4.973 min Scan# 1130  
 Delta R.T. 0.000 min  
 Lab File: VU052393.D  
 Acq: 14 Dec 2022 11:20

Tgt Ion: 128 Resp: 48877  
 Ion Ratio Lower Upper  
 128 100  
 49 155.4 104.0 193.2  
 130 129.8 84.6 157.2  
 51 50.1 38.1 57.1





#25

Chloroform

Concen: 4.486 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

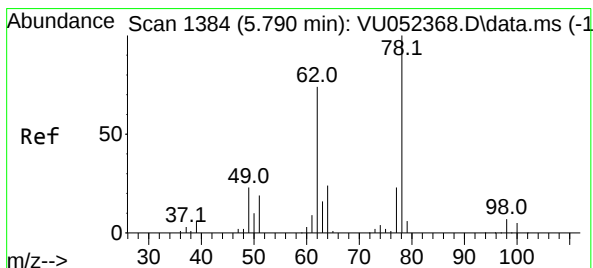
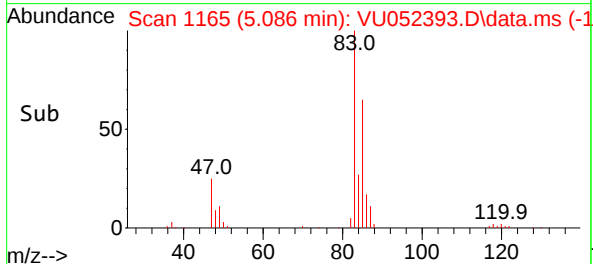
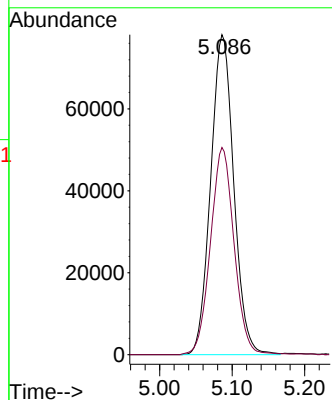
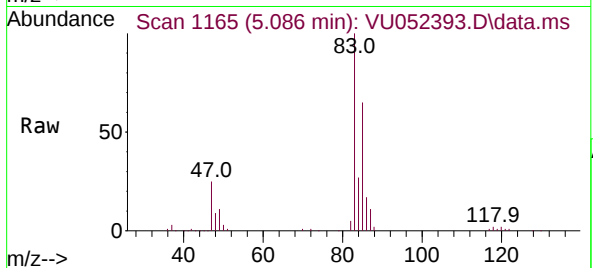
VSTD005107

Tgt Ion: 83 Resp: 172811

Ion Ratio Lower Upper

83 100

85 64.7 43.8 81.4



#27

1,2-Dichloroethane

Concen: 4.519 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.003 min

Lab File: VU052393.D

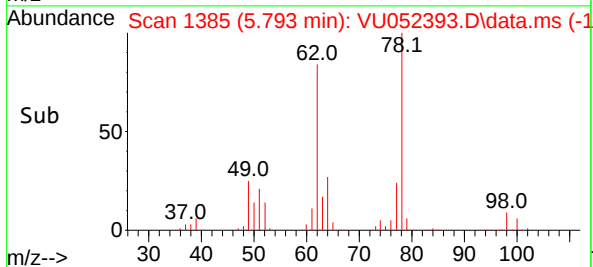
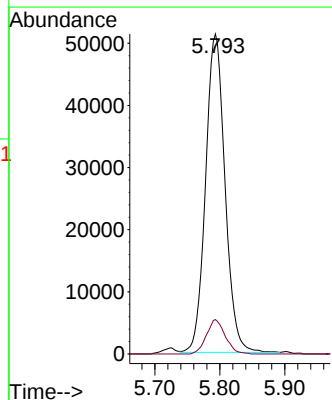
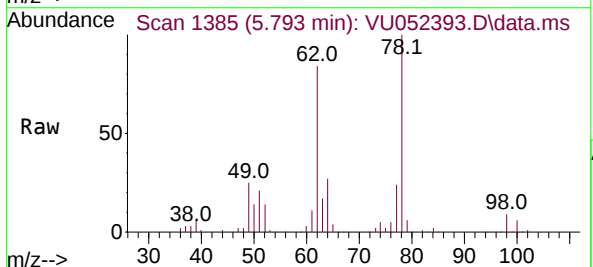
Acq: 14 Dec 2022 11:20

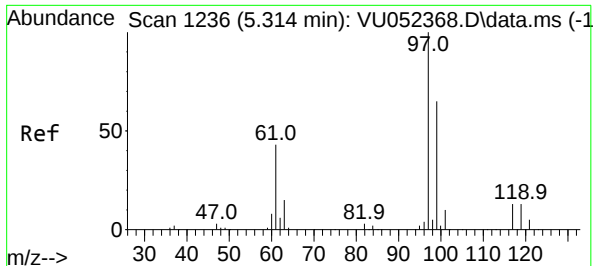
Tgt Ion: 62 Resp: 106629

Ion Ratio Lower Upper

62 100

98 10.8 8.4 12.6





#29

1,1,1-Trichloroethane

Concen: 4.587 ug/L

RT: 5.314 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005107

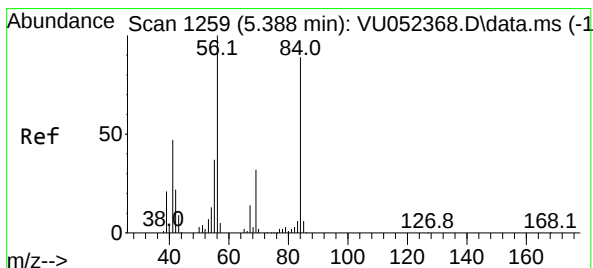
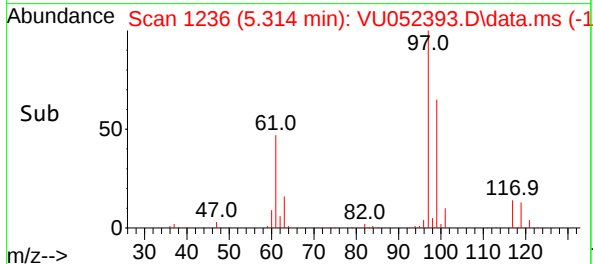
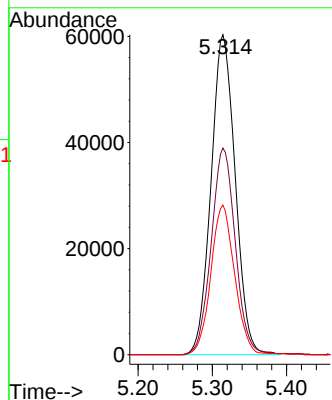
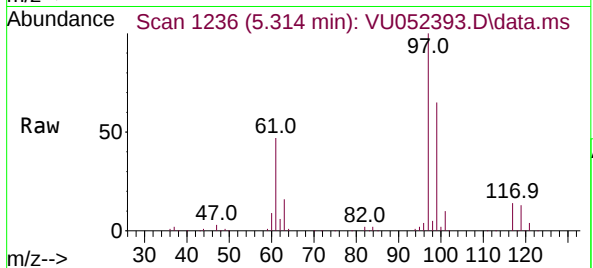
Tgt Ion: 97 Resp: 136588

Ion Ratio Lower Upper

97 100

99 64.5 51.0 76.6

61 46.3 36.9 55.3



#30

Cyclohexane

Concen: 4.510 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

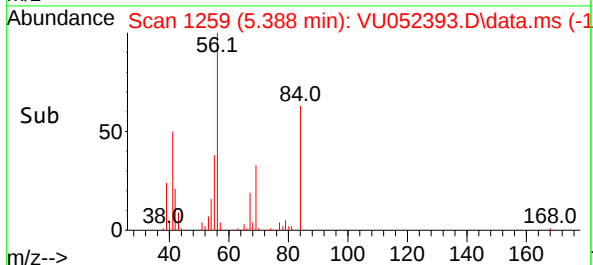
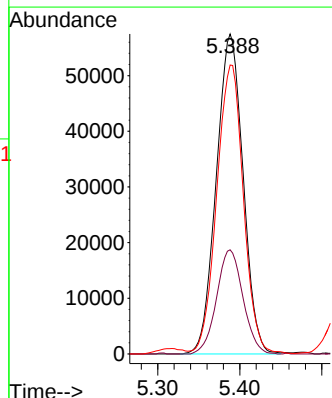
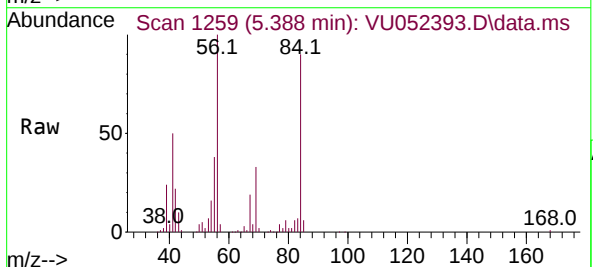
Tgt Ion: 56 Resp: 130397

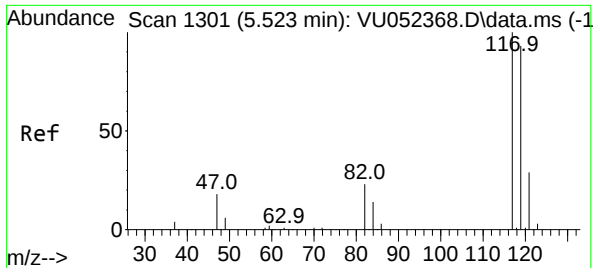
Ion Ratio Lower Upper

56 100

69 32.0 25.6 38.4

84 90.1 72.0 108.0

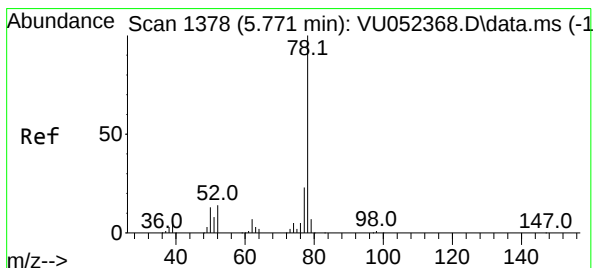
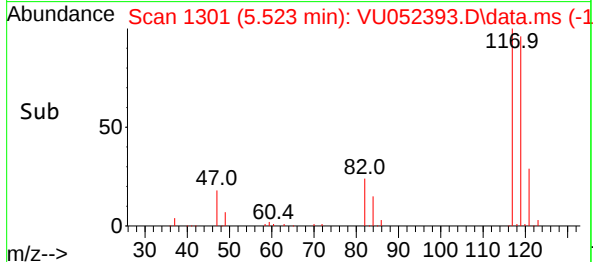
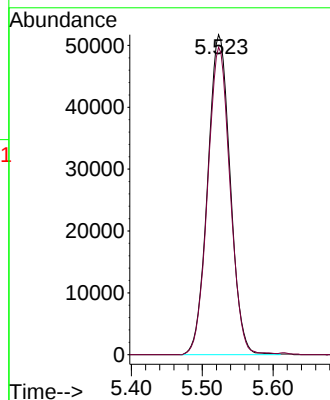
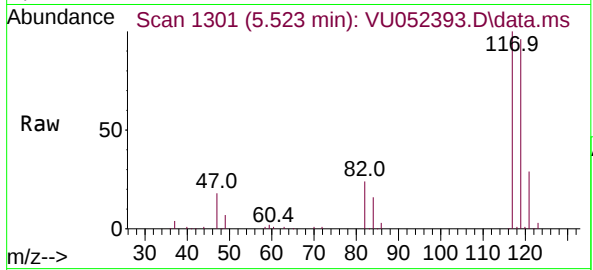




#31  
Carbon tetrachloride  
Concen: 4.509 ug/L  
RT: 5.523 min Scan# 111  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

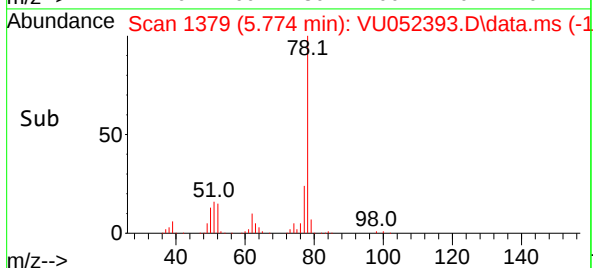
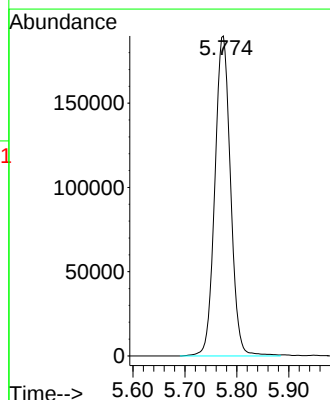
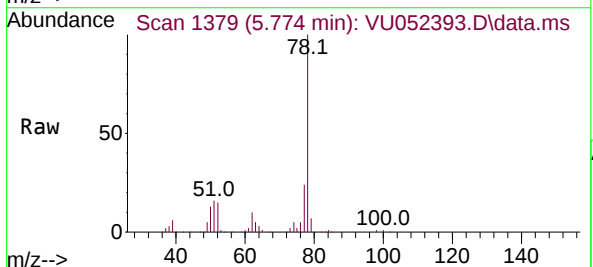
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

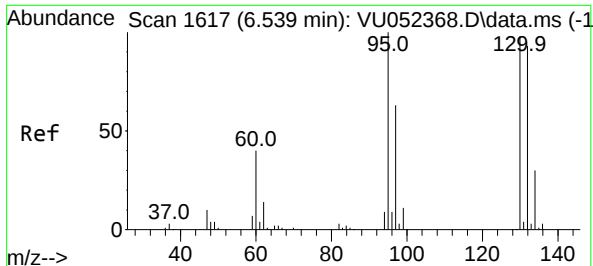
Tgt Ion:117 Resp: 114094  
Ion Ratio Lower Upper  
117 100  
119 95.6 77.2 115.8



#33  
Benzene  
Concen: 4.569 ug/L  
RT: 5.774 min Scan# 1379  
Delta R.T. 0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 78 Resp: 399058



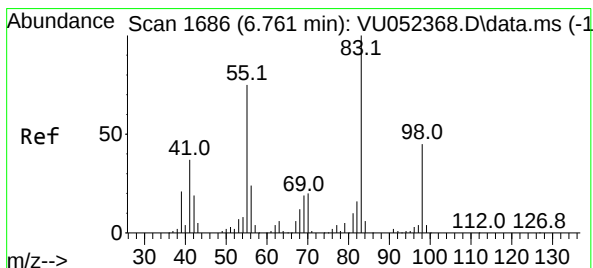
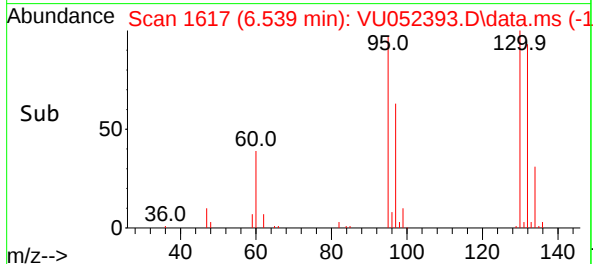
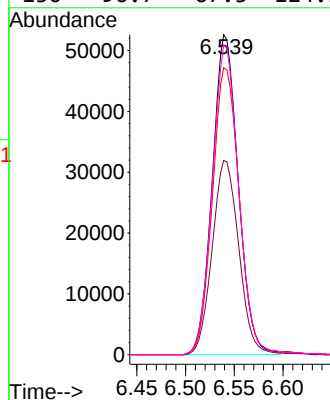
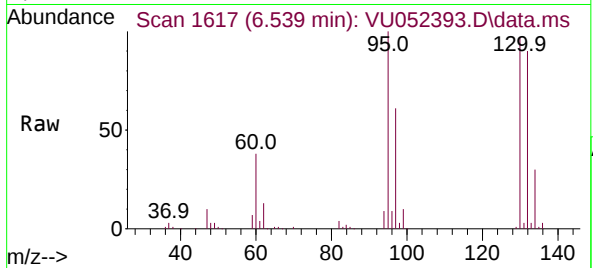


#34  
Trichloroethene  
Concen: 4.473 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

Tgt Ion: 95 Resp: 97455

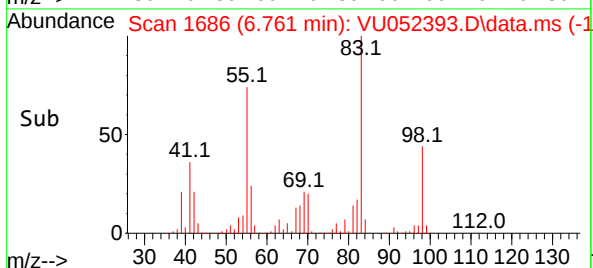
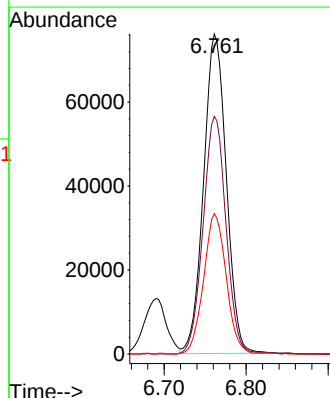
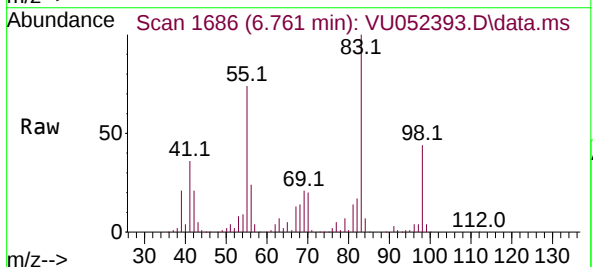
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 60.7  | 43.7  | 81.1  |
| 132 | 89.7  | 64.3  | 119.3 |
| 130 | 96.7  | 67.3  | 124.9 |

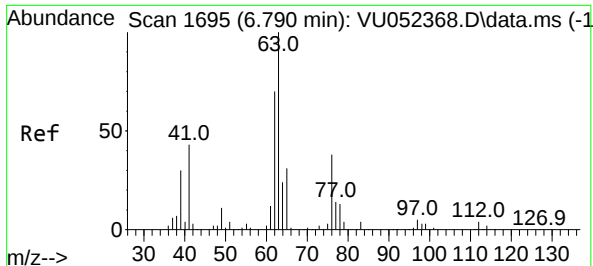


#35  
Methylcyclohexane  
Concen: 4.684 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 83 Resp: 146786

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 75.2  | 60.8  | 91.2  |
| 98  | 43.6  | 35.1  | 52.7  |

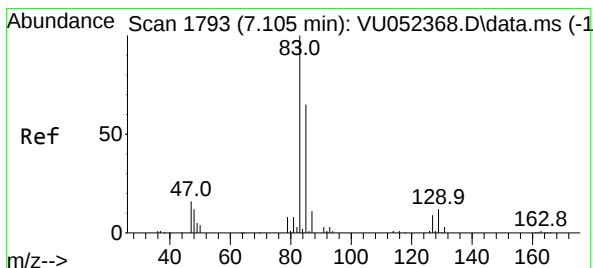
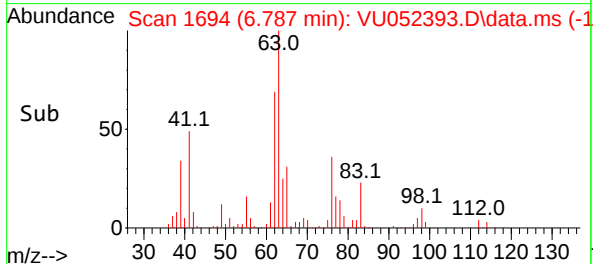
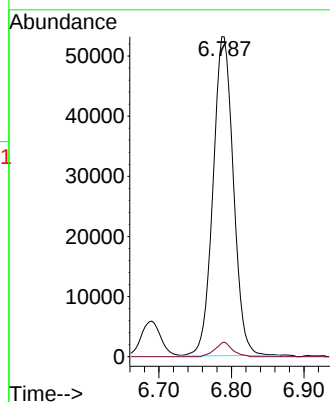
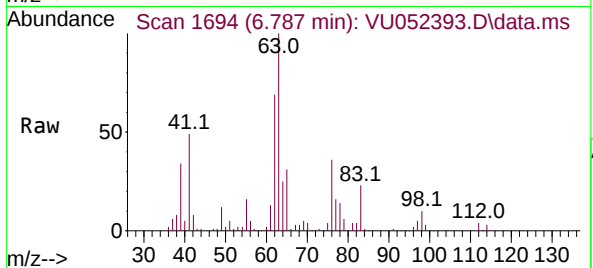




#37  
1,2-Dichloropropane  
Concen: 4.587 ug/L  
RT: 6.787 min Scan# 1694  
Delta R.T. -0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

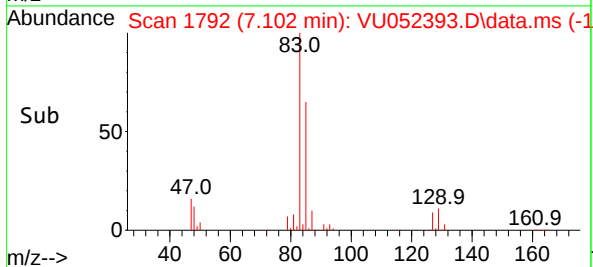
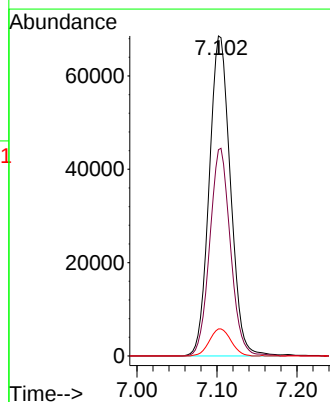
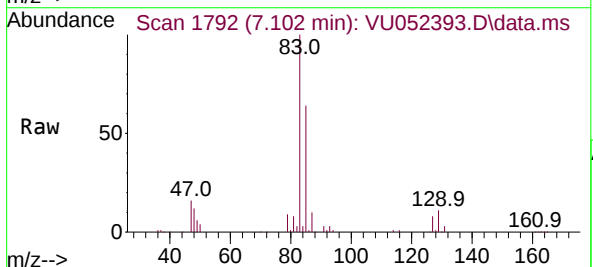
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

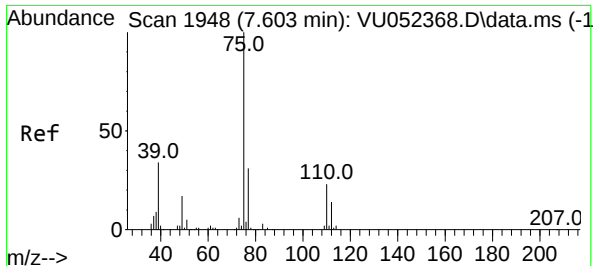
Tgt Ion: 63 Resp: 103741  
Ion Ratio Lower Upper  
63 100  
112 3.9 3.3 4.9



#38  
Bromodichloromethane  
Concen: 4.582 ug/L  
RT: 7.102 min Scan# 1792  
Delta R.T. -0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 83 Resp: 126330  
Ion Ratio Lower Upper  
83 100  
85 64.5 43.5 80.9  
127 8.5 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 4.348 ug/L

RT: 7.607 min Scan# 1948

Delta R.T. 0.003 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

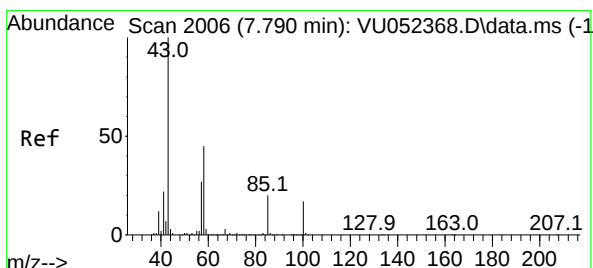
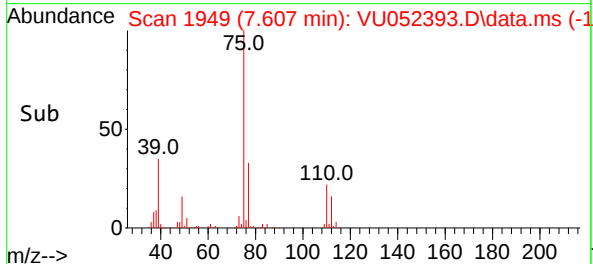
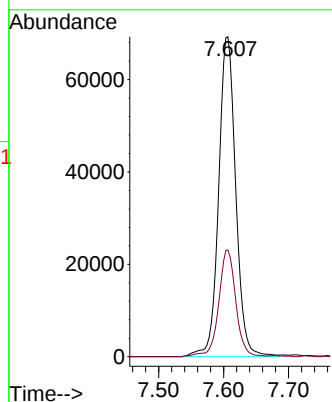
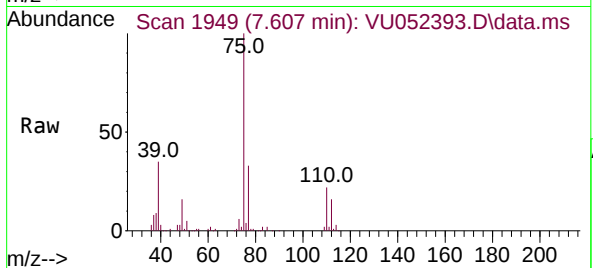
VSTD005107

Tgt Ion: 75 Resp: 126238

Ion Ratio Lower Upper

75 100

77 33.4 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 50.076 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

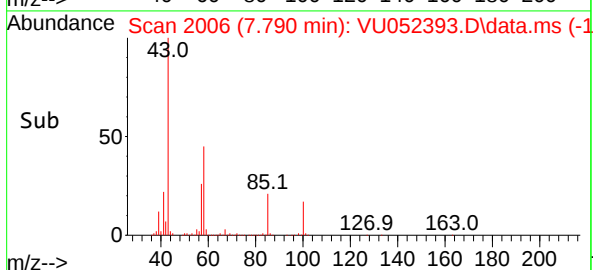
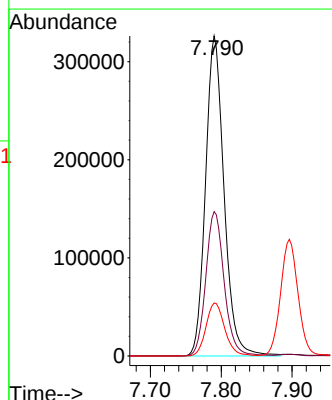
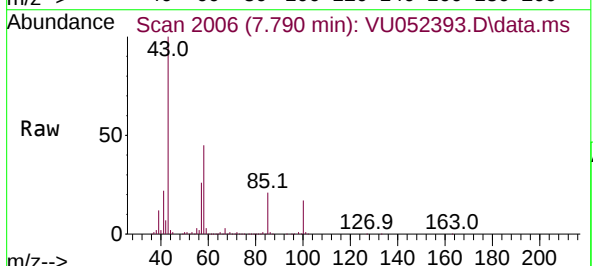
Tgt Ion: 43 Resp: 591570

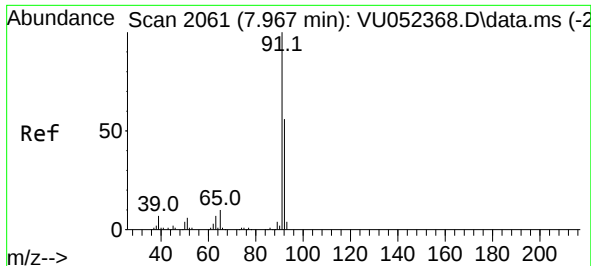
Ion Ratio Lower Upper

43 100

58 44.9 35.3 52.9

100 16.8 13.6 20.4





#42

Toluene

Concen: 4.700 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

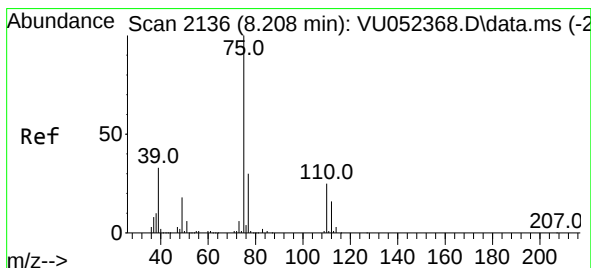
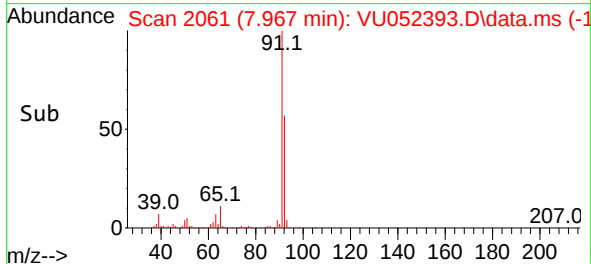
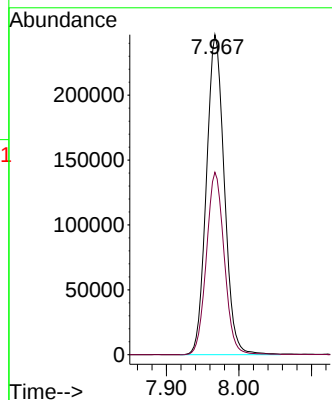
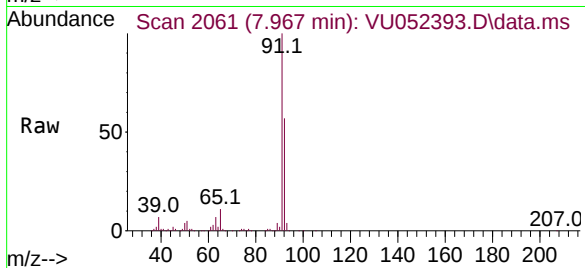
VSTD005107

Tgt Ion: 91 Resp: 422277

Ion Ratio Lower Upper

91 100

92 57.0 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 4.538 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. 0.000 min

Lab File: VU052393.D

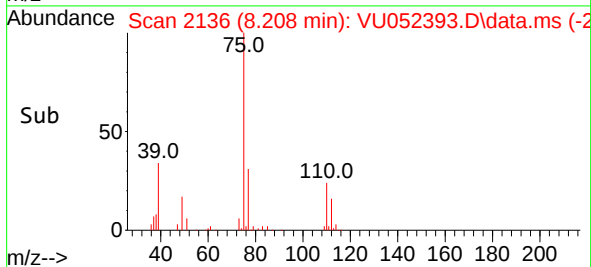
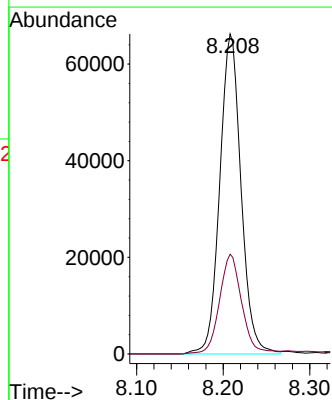
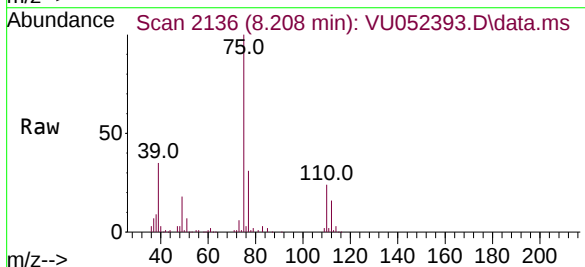
Acq: 14 Dec 2022 11:20

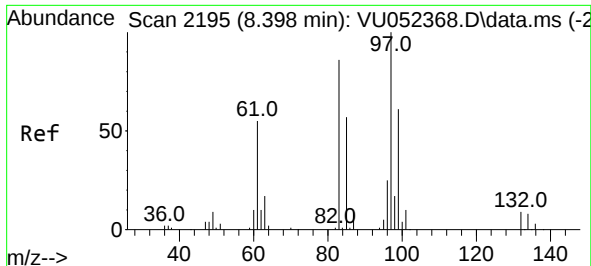
Tgt Ion: 75 Resp: 112828

Ion Ratio Lower Upper

75 100

77 31.2 22.6 42.0

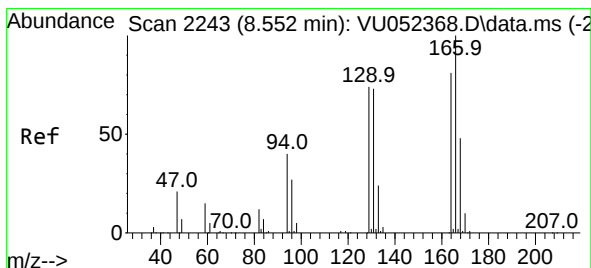
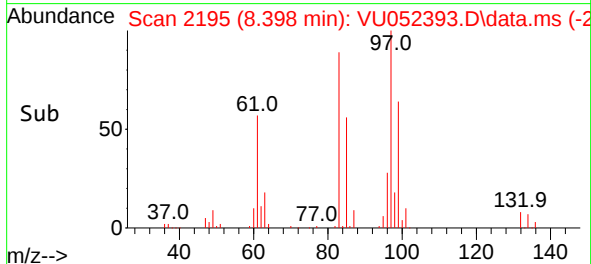
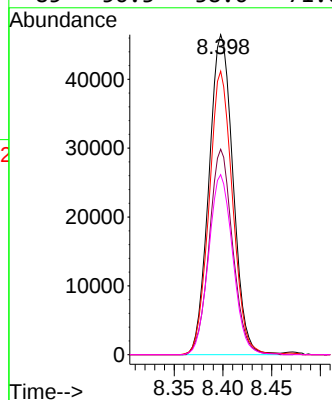
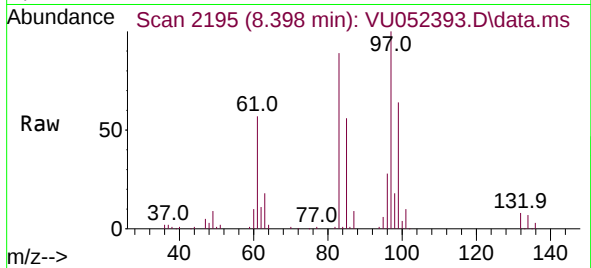




#45  
1,1,2-Trichloroethane  
Concen: 4.708 ug/L  
RT: 8.398 min Scan# 2195  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

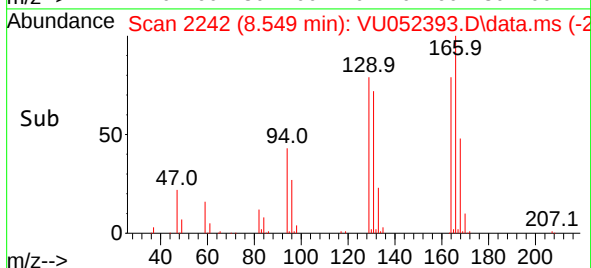
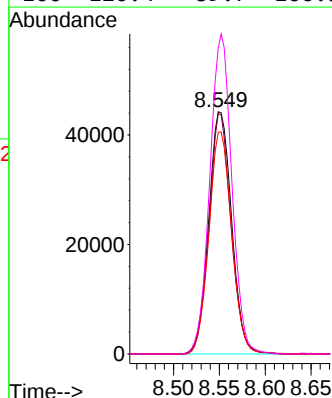
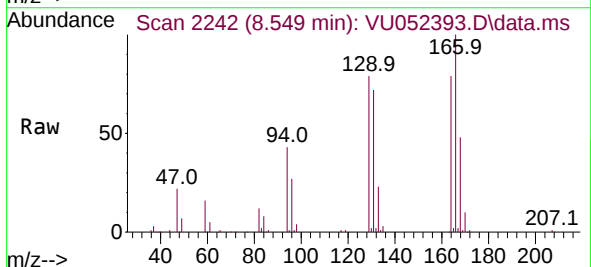
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

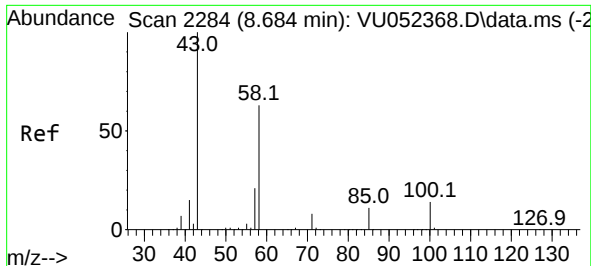
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 80012 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.2  | 42.6  | 79.2  |
| 83       | 88.6  | 60.7  | 112.7 |
| 85       | 56.3  | 38.6  | 71.6  |



#47  
Tetrachloroethene  
Concen: 4.602 ug/L  
RT: 8.549 min Scan# 2242  
Delta R.T. -0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 76839 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.3  | 67.4  | 125.2 |
| 131      | 91.5  | 67.1  | 124.7 |
| 166      | 126.4 | 89.7  | 166.5 |

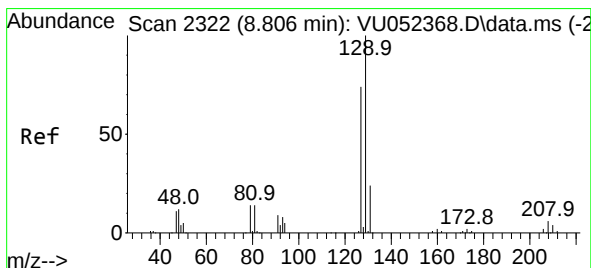
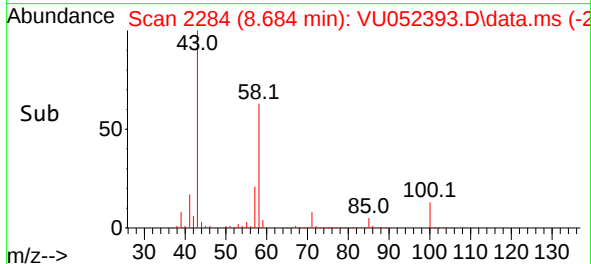
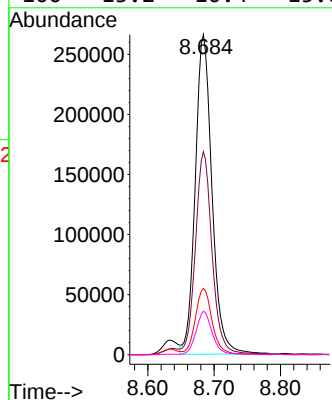
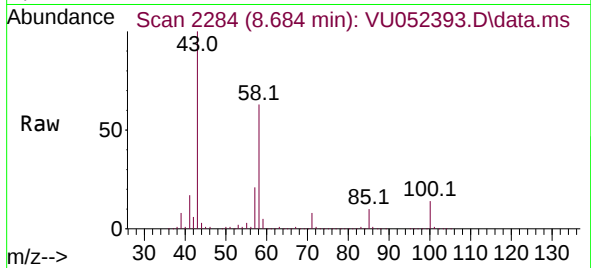




#48  
2-Hexanone  
Concen: 53.977 ug/L  
RT: 8.684 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

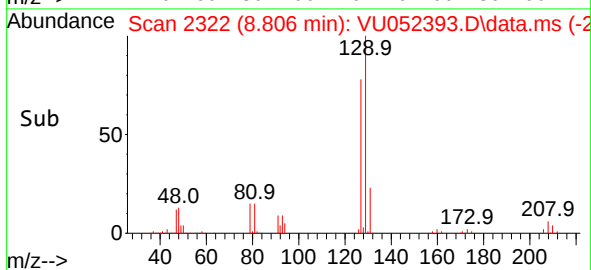
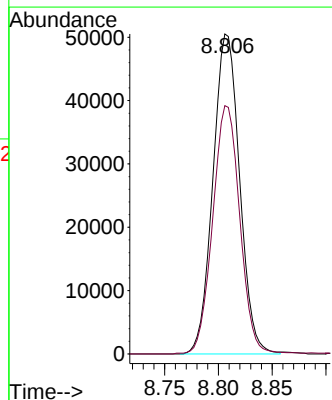
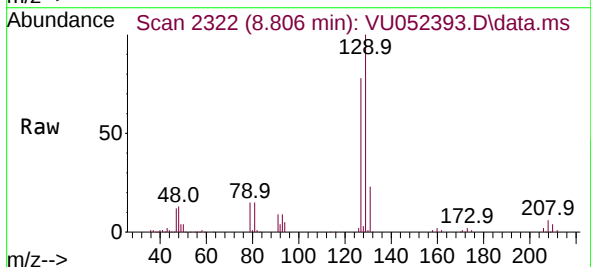
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

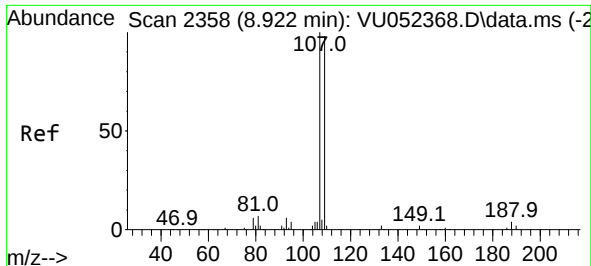
Tgt Ion: 43 Resp: 467473  
Ion Ratio Lower Upper  
43 100  
58 63.4 49.4 74.0  
57 20.5 16.3 24.5  
100 13.2 10.4 15.6



#49  
Dibromochloromethane  
Concen: 4.582 ug/L  
RT: 8.806 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 129 Resp: 87210  
Ion Ratio Lower Upper  
129 100  
127 77.6 52.8 98.2





#50

1,2-Dibromoethane

Concen: 4.787 ug/L

RT: 8.922 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005107

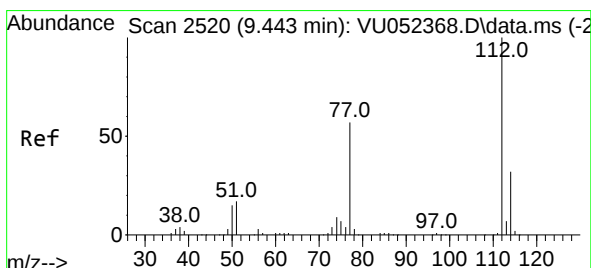
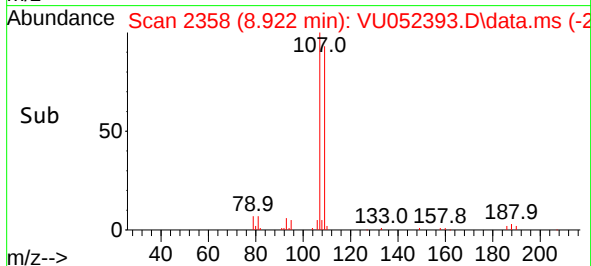
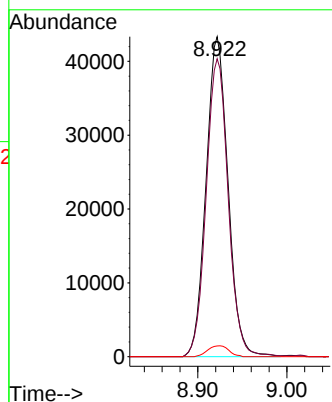
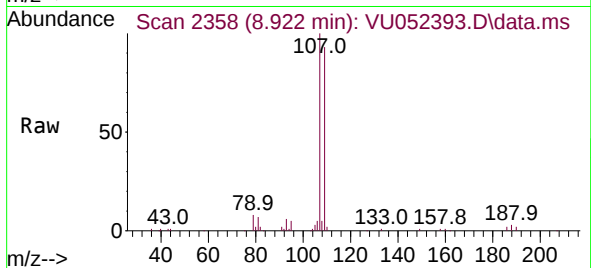
Tgt Ion:107 Resp: 74111

Ion Ratio Lower Upper

107 100

109 93.1 64.9 120.5

188 3.3 2.6 4.0



#51

Chlorobenzene

Concen: 4.538 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

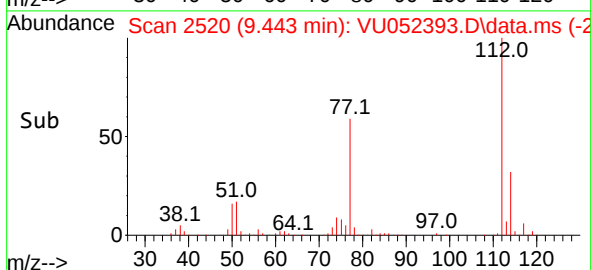
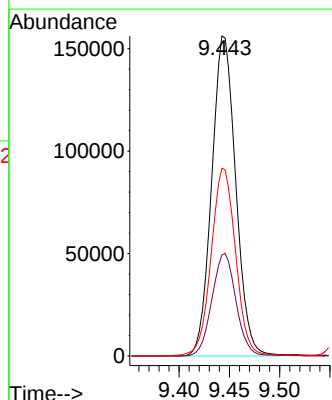
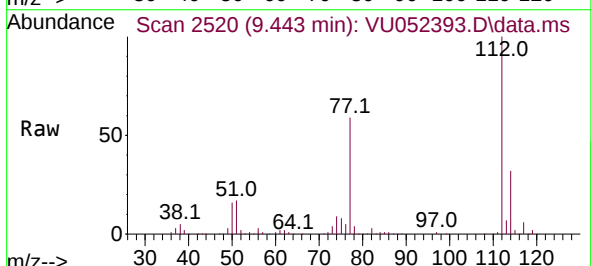
Tgt Ion:112 Resp: 259930

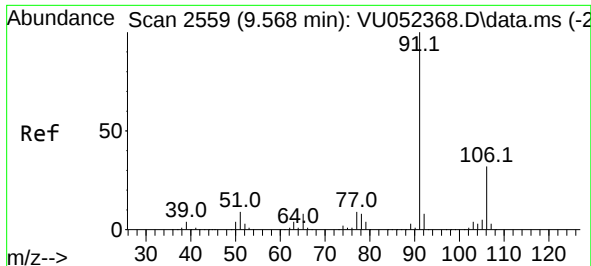
Ion Ratio Lower Upper

112 100

114 31.6 22.2 41.2

77 58.7 46.6 70.0

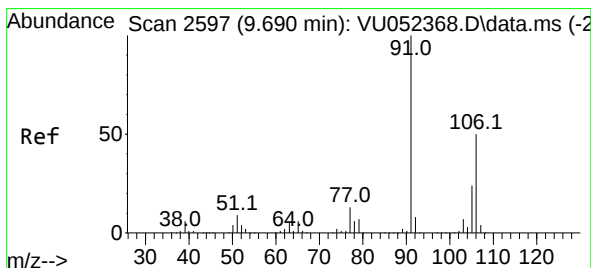
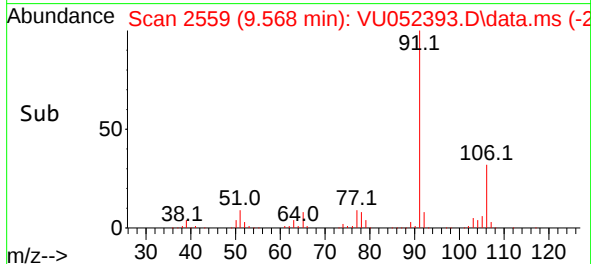
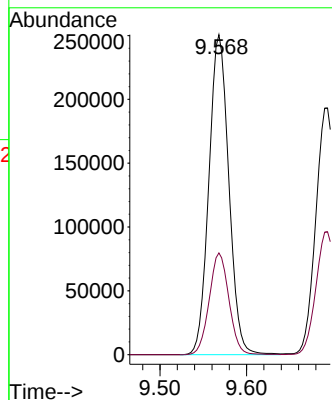
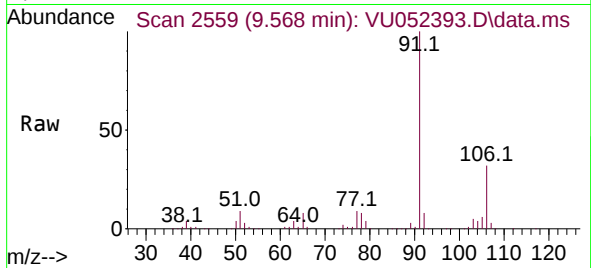




#52  
Ethylbenzene  
Concen: 4.587 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

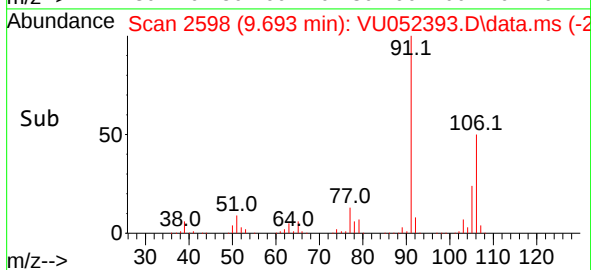
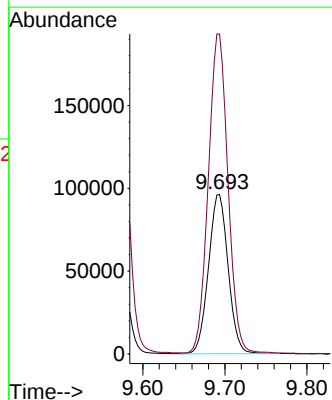
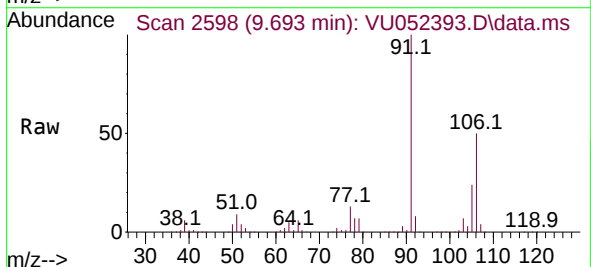
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

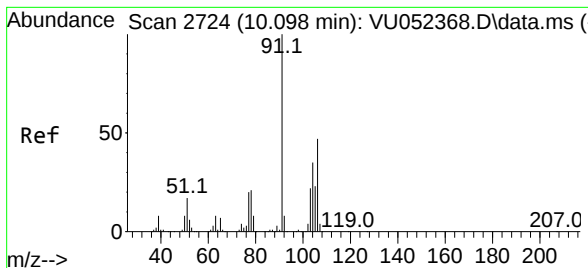
Tgt Ion: 91 Resp: 400703  
Ion Ratio Lower Upper  
91 100  
106 31.8 22.3 41.3



#53  
m,p-Xylene  
Concen: 4.723 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 106 Resp: 159764  
Ion Ratio Lower Upper  
106 100  
91 200.5 137.7 255.7

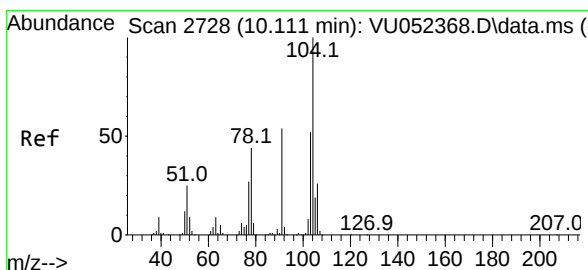
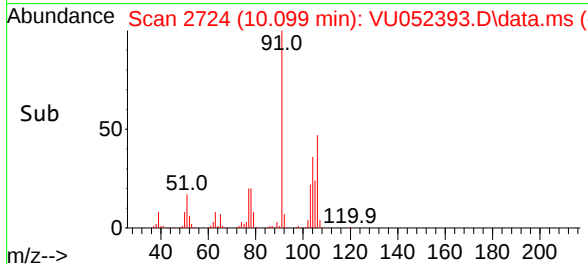
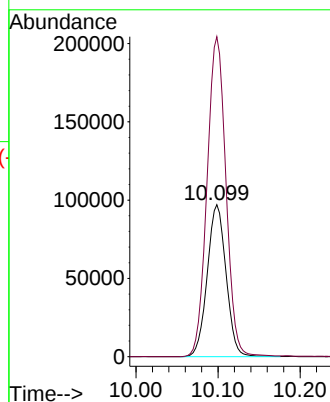
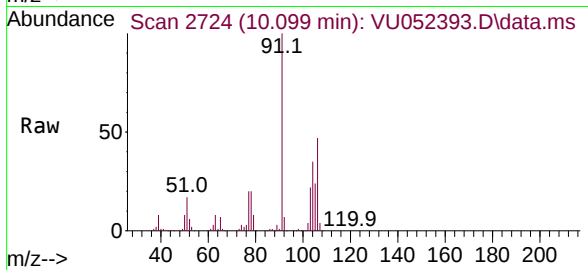




#54  
o-Xylene  
Concen: 4.777 ug/L  
RT: 10.099 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

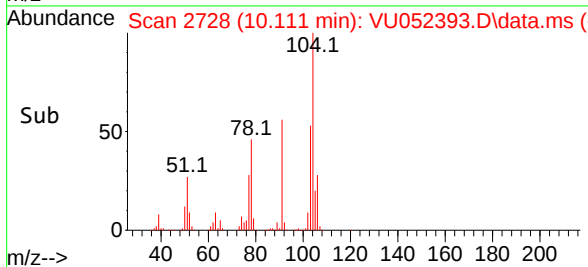
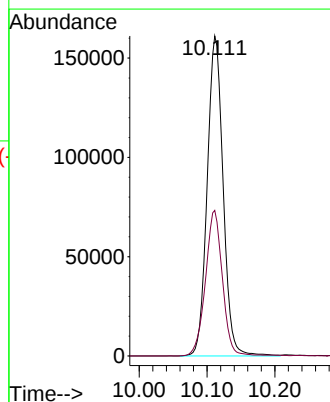
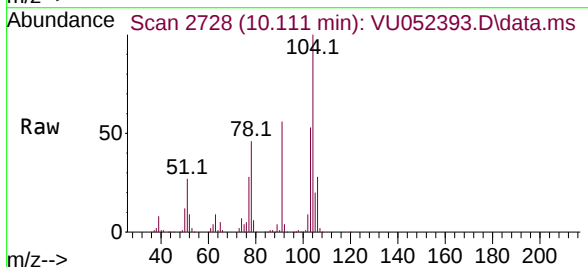
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

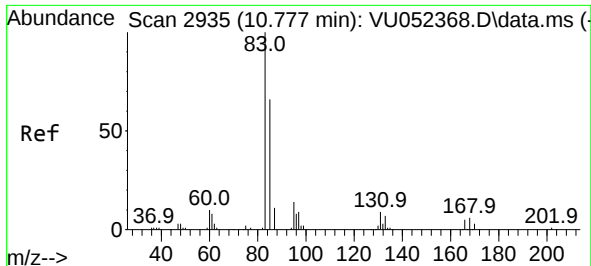
Tgt Ion:106 Resp: 154849  
Ion Ratio Lower Upper  
106 100  
91 210.5 151.5 281.5



#55  
Styrene  
Concen: 4.813 ug/L  
RT: 10.111 min Scan# 2728  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion:104 Resp: 263507  
Ion Ratio Lower Upper  
104 100  
78 45.5 30.6 56.8

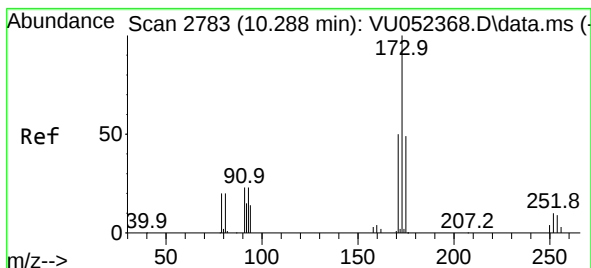
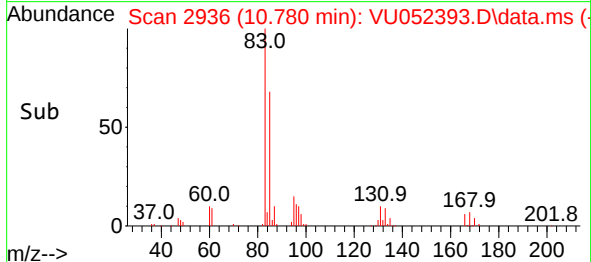
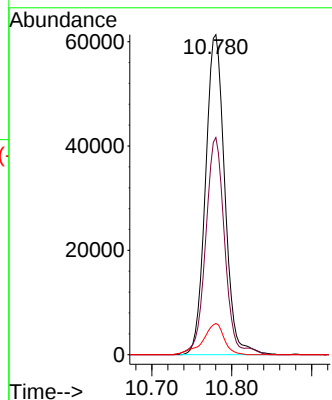
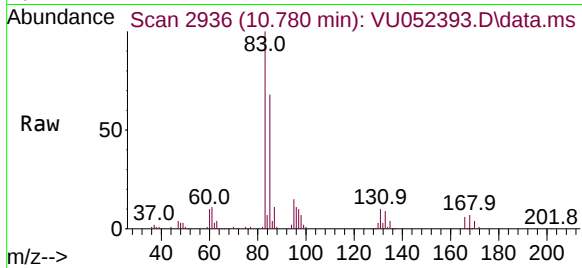




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 4.835 ug/L  
 RT: 10.780 min Scan# 2935  
 Delta R.T. 0.003 min  
 Lab File: VU052393.D  
 Acq: 14 Dec 2022 11:20

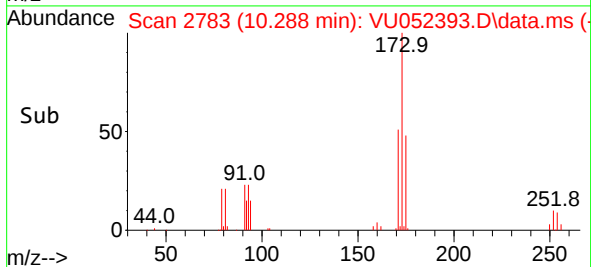
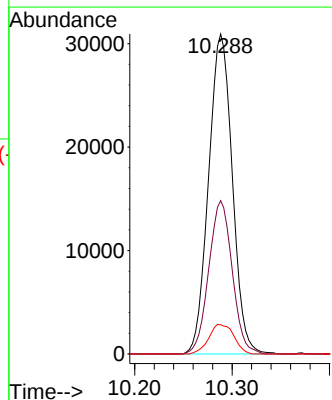
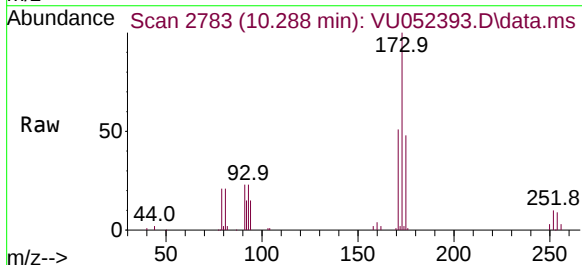
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005107

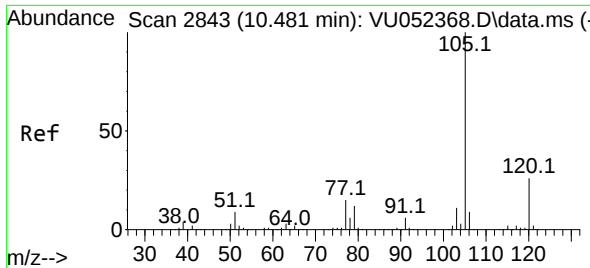
Tgt Ion: 83 Resp: 102629  
 Ion Ratio Lower Upper  
 83 100  
 85 67.9 45.7 84.9  
 131 9.7 7.6 11.4



#59  
 Bromoform  
 Concen: 4.537 ug/L  
 RT: 10.288 min Scan# 2783  
 Delta R.T. 0.000 min  
 Lab File: VU052393.D  
 Acq: 14 Dec 2022 11:20

Tgt Ion: 173 Resp: 52310  
 Ion Ratio Lower Upper  
 173 100  
 175 47.3 37.2 55.8  
 254 9.8 7.0 10.6

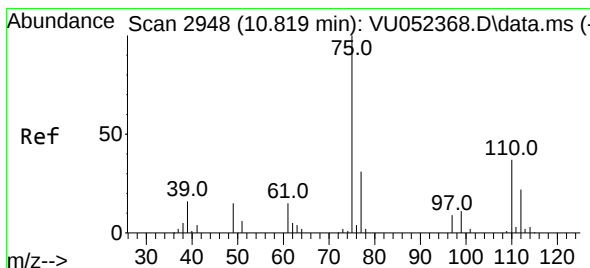
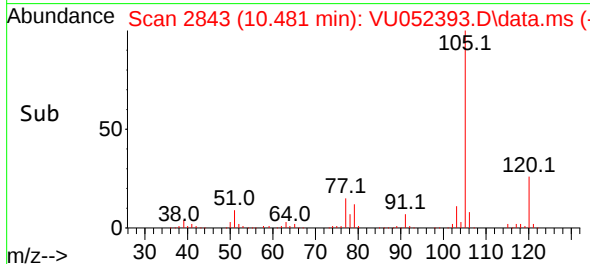
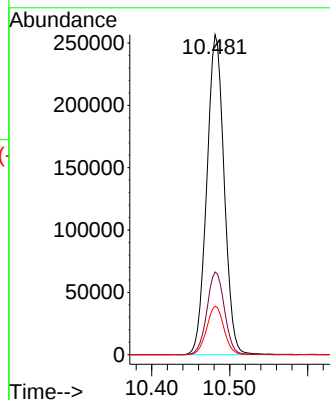
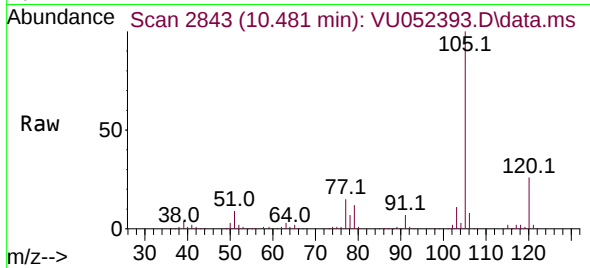




#60  
Isopropylbenzene  
Concen: 4.517 ug/L  
RT: 10.481 min Scan# 2843  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

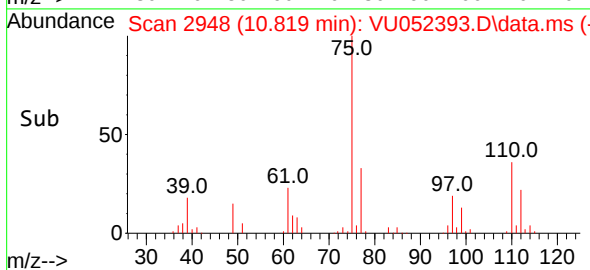
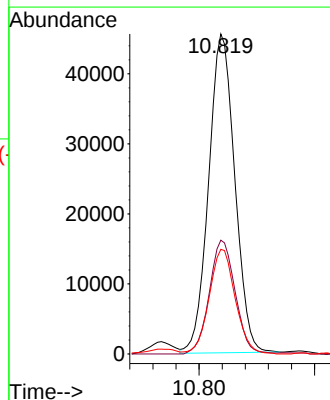
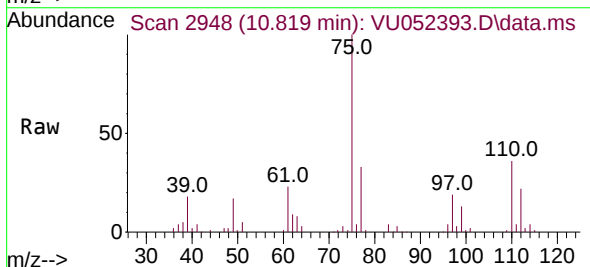
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

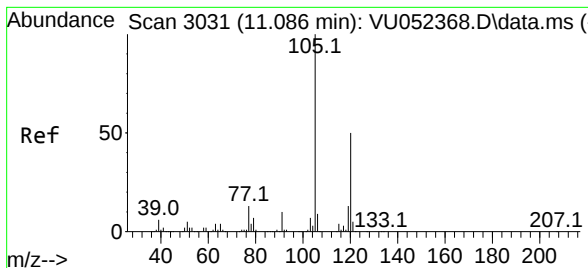
Tgt Ion:105 Resp: 397118  
Ion Ratio Lower Upper  
105 100  
120 26.2 21.0 31.6  
77 15.2 12.5 18.7



#61  
1,2,3-Trichloropropane  
Concen: 4.463 ug/L  
RT: 10.819 min Scan# 2948  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 75 Resp: 71491  
Ion Ratio Lower Upper  
75 100  
110 35.2 28.3 42.5  
77 32.9 26.2 39.2

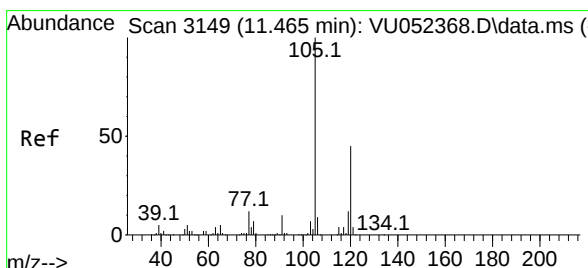
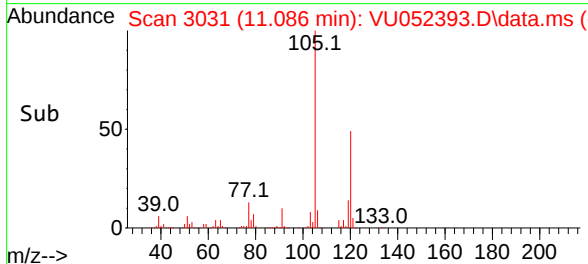
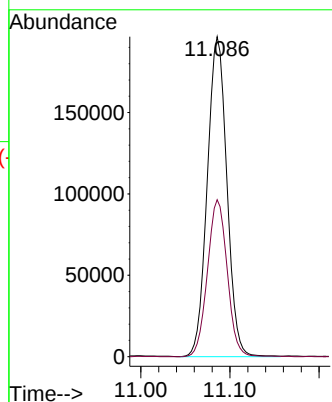
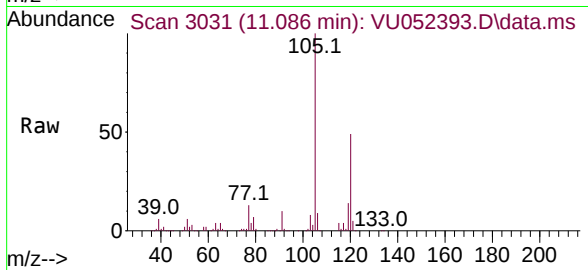




#62  
1,3,5-Trimethylbenzene  
Concen: 4.271 ug/L  
RT: 11.086 min Scan# 3031  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

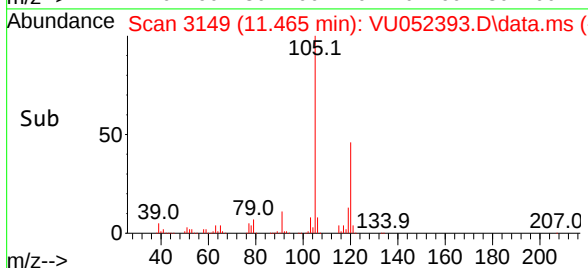
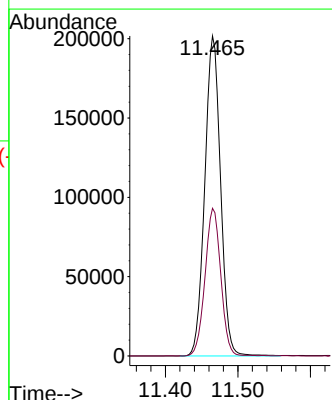
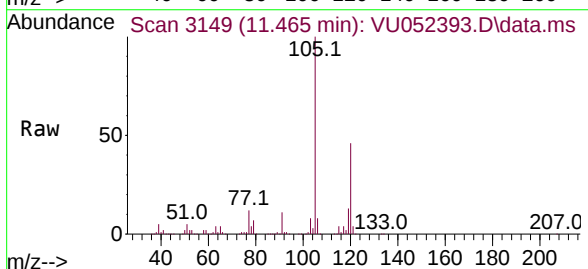
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

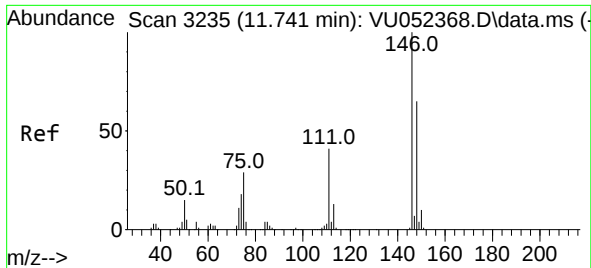
Tgt Ion:105 Resp: 300214  
Ion Ratio Lower Upper  
105 100  
120 49.4 38.7 58.1



#63  
1,2,4-Trimethylbenzene  
Concen: 4.372 ug/L  
RT: 11.465 min Scan# 3149  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion:105 Resp: 305044  
Ion Ratio Lower Upper  
105 100  
120 46.1 36.6 55.0

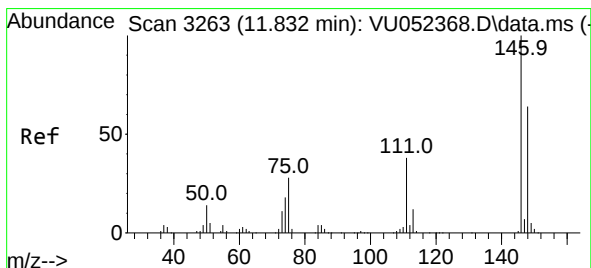
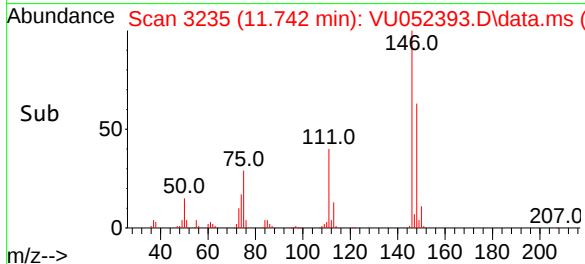
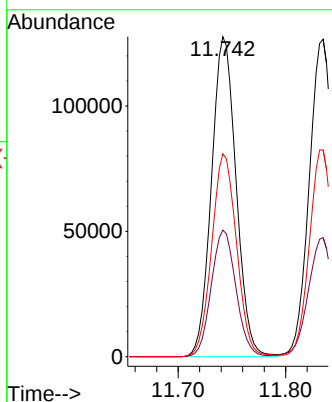
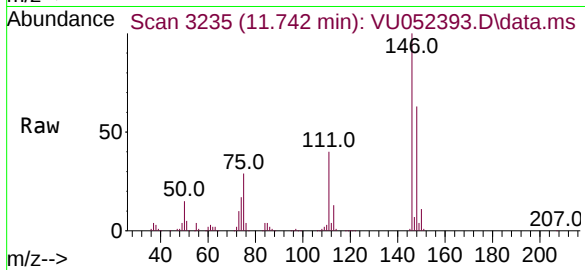




#64  
1,3-Dichlorobenzene  
Concen: 4.527 ug/L  
RT: 11.742 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

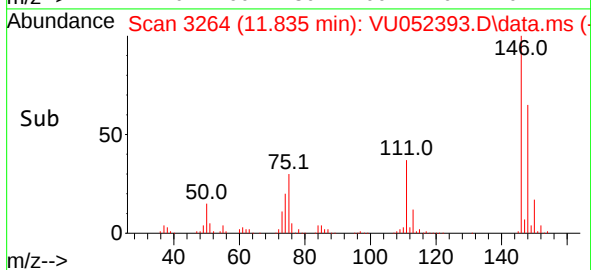
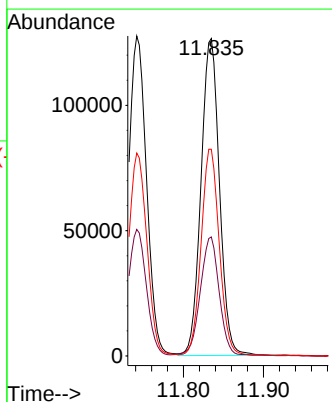
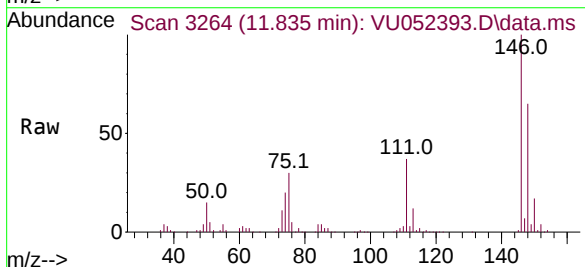
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

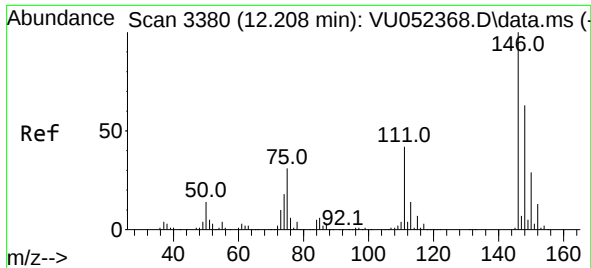
Tgt Ion:146 Resp: 203244  
Ion Ratio Lower Upper  
146 100  
111 39.6 28.6 53.2  
148 63.4 45.4 84.2



#65  
1,4-Dichlorobenzene  
Concen: 4.547 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.003 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion:146 Resp: 203568  
Ion Ratio Lower Upper  
146 100  
111 37.5 26.9 50.1  
148 65.1 45.1 83.7

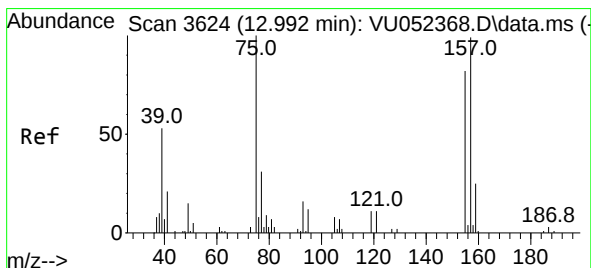
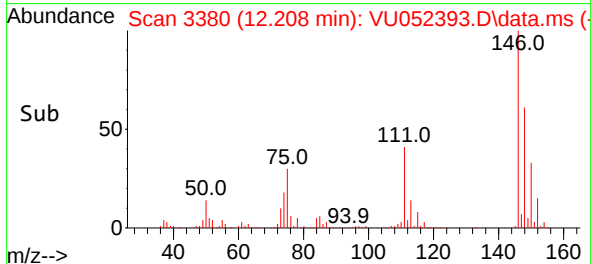
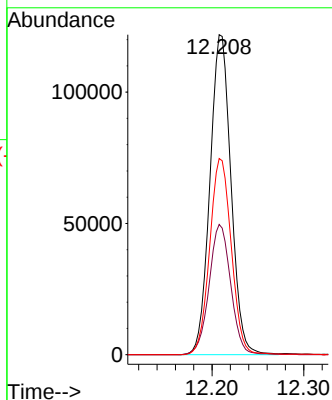
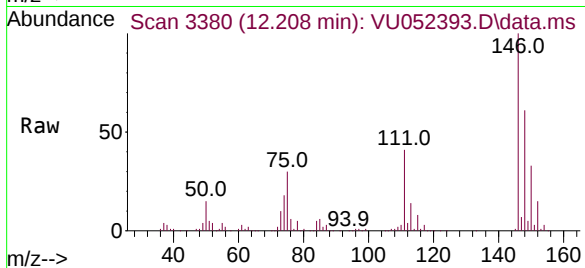




#67  
1,2-Dichlorobenzene  
Concen: 4.500 ug/L  
RT: 12.208 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

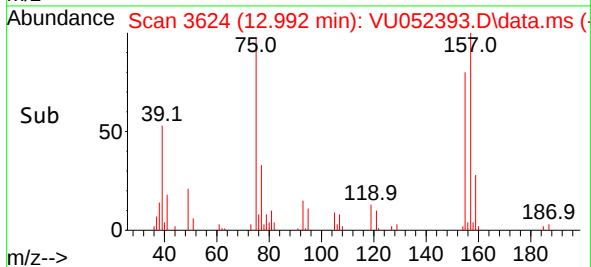
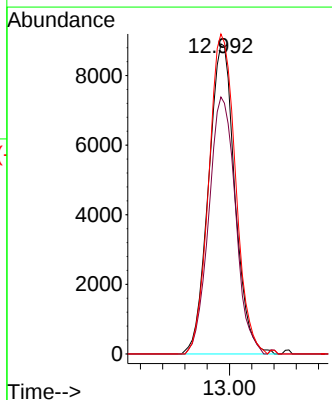
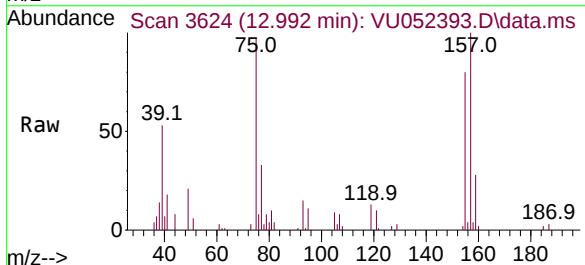
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

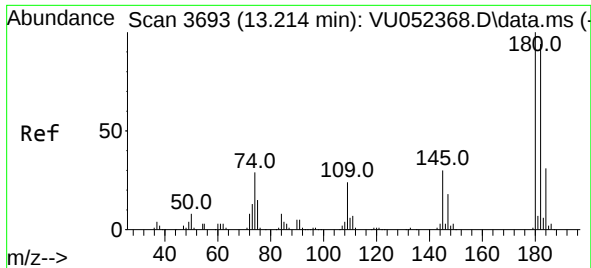
Tgt Ion:146 Resp: 194544  
Ion Ratio Lower Upper  
146 100  
111 40.7 32.7 49.1  
148 61.3 50.6 75.8



#68  
1,2-Dibromo-3-chloropropane  
Concen: 4.175 ug/L  
RT: 12.992 min Scan# 3624  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion: 75 Resp: 14635  
Ion Ratio Lower Upper  
75 100  
155 82.8 65.4 98.2  
157 103.2 80.5 120.7





#69

1,3,5-Trichlorobenzene

Concen: 4.596 ug/L

RT: 13.214 min Scan# 3693

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005107

Tgt Ion:180 Resp: 146306

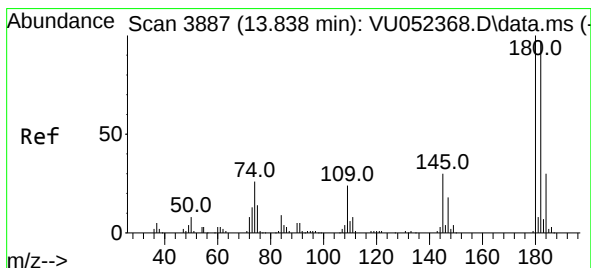
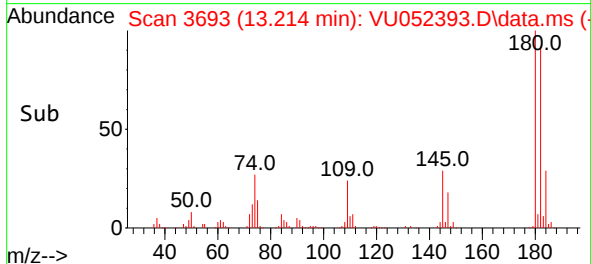
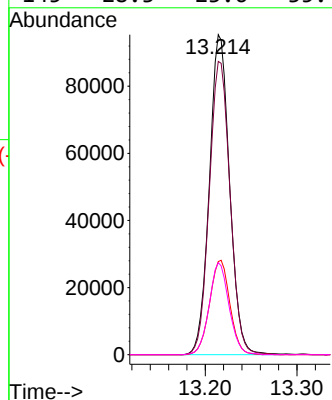
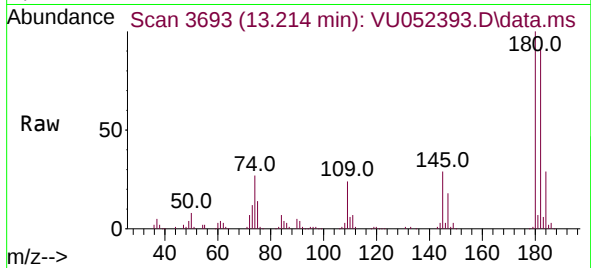
Ion Ratio Lower Upper

180 100

182 94.1 75.7 113.5

184 29.6 24.3 36.5

145 28.3 23.6 35.4



#70

1,2,4-trichlorobenzene

Concen: 4.709 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.000 min

Lab File: VU052393.D

Acq: 14 Dec 2022 11:20

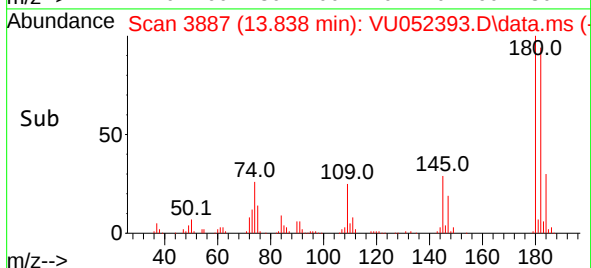
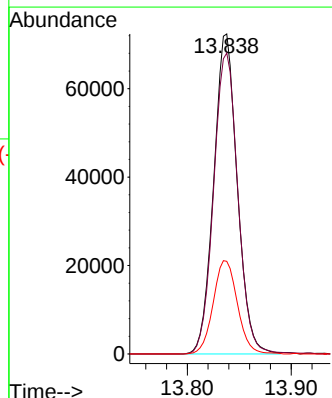
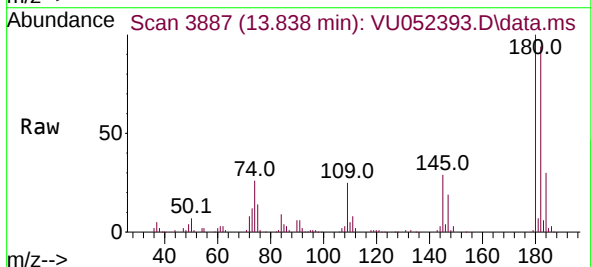
Tgt Ion:180 Resp: 114155

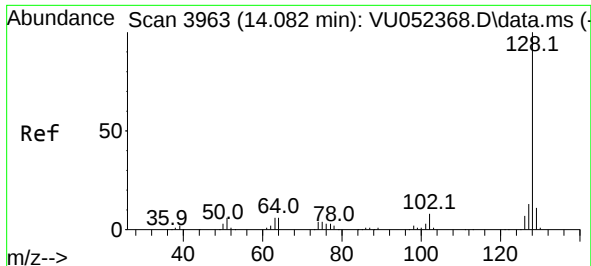
Ion Ratio Lower Upper

180 100

182 96.9 76.3 114.5

145 30.0 24.6 36.8

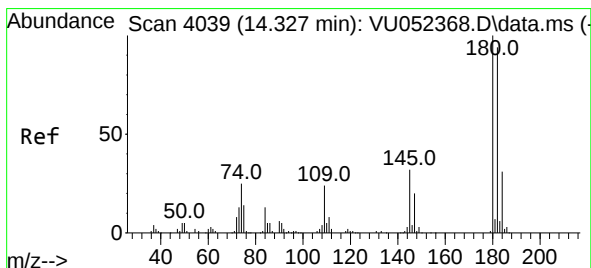
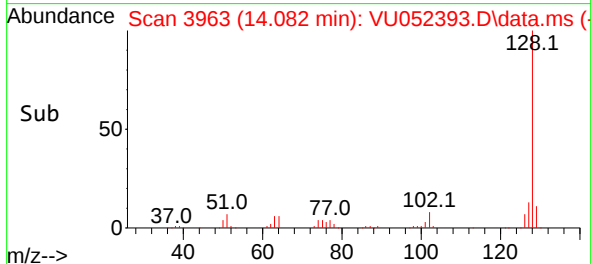
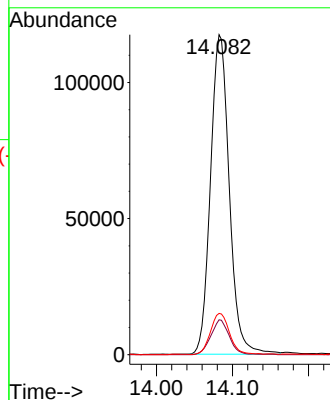
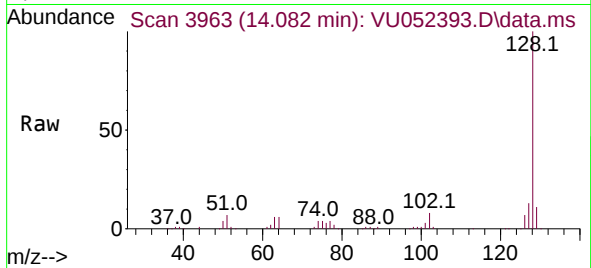




#71  
Naphthalene  
Concen: 4.425 ug/L  
RT: 14.082 min Scan# 3963  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005107

Tgt Ion:128 Resp: 201398  
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: 4.785 ug/L  
RT: 14.327 min Scan# 4039  
Delta R.T. 0.000 min  
Lab File: VU052393.D  
Acq: 14 Dec 2022 11:20

Tgt Ion:180 Resp: 114124  
Ion Ratio Lower Upper  
180 100  
182 95.5 75.7 113.5  
145 33.1 24.5 36.7

