

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102723\  
 Data File : VU055933.D  
 Acq On : 27 Oct 2023 19:08  
 Operator : MD/SY  
 Sample : 05009-08MS  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A49A1MS

Quant Time: Oct 27 23:57:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR102423WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Oct 25 05:19:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 425747   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.415  | 117   | 410956   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 208714   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.599  | 65    | 99030    | 2.940    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 58.800%  |
| 7) Chloroethane-d5            | 1.914  | 69    | 89051    | 3.392    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 67.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.567  | 65    | 45471    | 3.180    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 63.600%  |
| 20) 2-Butanone-d5             | 4.624  | 46    | 268878   | 44.752   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 89.500%  |
| 24) Chloroform-d              | 5.058  | 84    | 248096   | 3.975    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 79.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 114922   | 3.780    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 75.600%  |
| 32) Benzene-d6                | 5.724  | 84    | 475583   | 3.885    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 77.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.689  | 67    | 149966   | 4.133    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 82.600%  |
| 41) Toluene-d8                | 7.894  | 98    | 428669   | 3.860    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 77.200%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 50704    | 3.572    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 71.400%  |
| 46) 2-Hexanone-d5             | 8.631  | 63    | 224958   | 62.438   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 124.880% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 116317   | 4.401    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 88.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 160973   | 4.134    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 82.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 184556   | 7.606    | ug/L   | 99       |
| 3) Chloromethane              | 1.518  | 50    | 185329   | 7.999    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.605  | 62    | 171717   | 6.729    | ug/L   | 98       |
| 6) Bromomethane               | 1.856  | 94    | 96770    | 6.122    | ug/L   | 98       |
| 8) Chloroethane               | 1.933  | 64    | 99617    | 6.662    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.139  | 101   | 230485   | 6.548    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.579  | 101   | 140280   | 6.067    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.579  | 96    | 134317   | 6.509    | ug/L # | 74       |
| 13) Acetone                   | 2.631  | 43    | 166243   | 48.555   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.792  | 76    | 432015   | 8.177    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.952  | 43    | 28695    | 4.114    | ug/L   | 97       |
| 16) Methylene chloride        | 3.046  | 84    | 147224   | 6.297    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 3.361  | 73    | 312443   | 6.239    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.351  | 96    | 141600   | 6.921    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.866  | 63    | 265301   | 6.386    | ug/L   | 97       |
| 21) 2-Butanone                | 4.705  | 43    | 267520   | 53.153   | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 158833   | 6.412    | ug/L   | 94       |
| 23) Bromochloromethane        | 4.972  | 128   | 66551    | 6.594    | ug/L   | 97       |
| 25) Chloroform                | 5.084  | 83    | 278283   | 6.248    | ug/L   | 99       |

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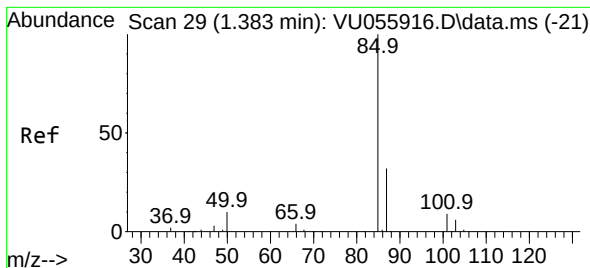
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A49A1MS

Quant Time: Oct 27 23:57:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR102423WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Oct 25 05:19:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.792  | 62   | 157909   | 6.034  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane     | 5.312  | 97   | 240834   | 6.430  | ug/L   | 99       |
| 30) Cyclohexane               | 5.386  | 56   | 227327   | 7.193  | ug/L   | 100      |
| 31) Carbon tetrachloride      | 5.521  | 117  | 208868   | 6.537  | ug/L   | 97       |
| 33) Benzene                   | 5.772  | 78   | 610581   | 6.733  | ug/L   | 100      |
| 34) Trichloroethene           | 6.541  | 95   | 161752   | 6.376  | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.759  | 83   | 235936   | 6.891  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 153524   | 6.376  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.100  | 83   | 189684   | 6.275  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 204036   | 5.948  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 691174   | 59.543 | ug/L   | 97       |
| 42) Toluene                   | 7.965  | 91   | 650599   | 6.864  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 164422   | 5.937  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 105124   | 6.209  | ug/L   | 98       |
| 47) Tetrachloroethene         | 8.550  | 164  | 120635   | 6.790  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.679  | 43   | 493597   | 54.081 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.804  | 129  | 120860   | 6.503  | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 95634    | 6.225  | ug/L # | 97       |
| 51) Chlorobenzene             | 9.444  | 112  | 403683   | 6.499  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.566  | 91   | 703565   | 6.548  | ug/L   | 100      |
| 53) m,p-Xylene                | 9.692  | 106  | 272272   | 6.781  | ug/L   | 96       |
| 54) o-Xylene                  | 10.097 | 106  | 259760   | 6.611  | ug/L   | 100      |
| 55) Styrene                   | 10.110 | 104  | 413459   | 6.565  | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 122240   | 6.237  | ug/L   | 98       |
| 59) Bromoform                 | 10.286 | 173  | 66656    | 6.278  | ug/L   | 96       |
| 60) Isopropylbenzene          | 10.479 | 105  | 700852   | 6.739  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75   | 85693    | 5.980  | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 570448   | 6.712  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 571039   | 7.232  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 316141   | 6.412  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 310922   | 6.319  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 291257   | 6.434  | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 18800    | 7.353  | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.216 | 180  | 227837   | 6.763  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 183370   | 7.364  | ug/L   | 100      |
| 71) Naphthalene               | 14.084 | 128  | 281941   | 7.819  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 160897   | 7.494  | ug/L   | 99       |

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

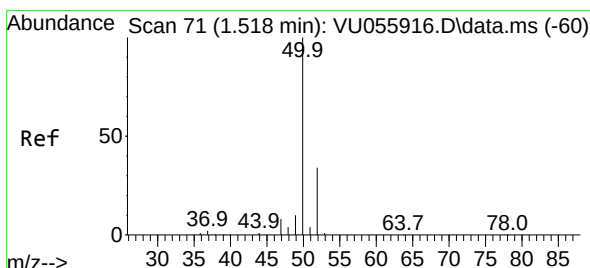
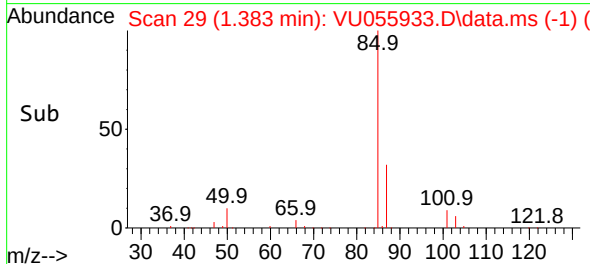
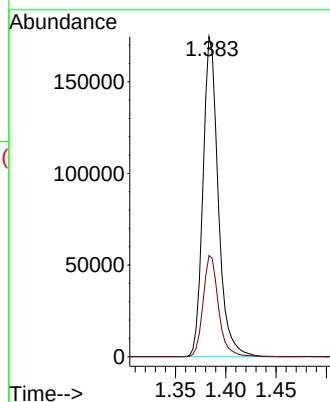
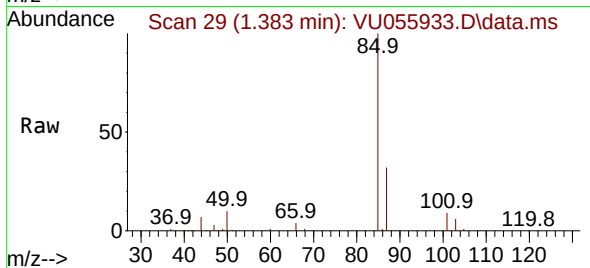




#2  
 Dichlorodifluoromethane  
 Concen: 7.606 ug/L  
 RT: 1.383 min Scan# 29  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

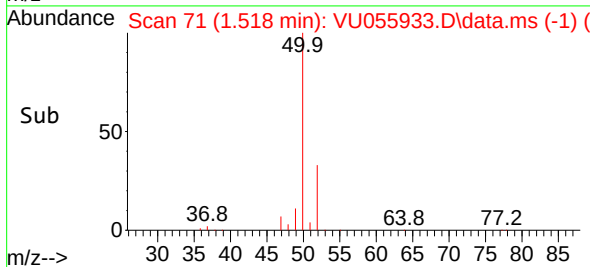
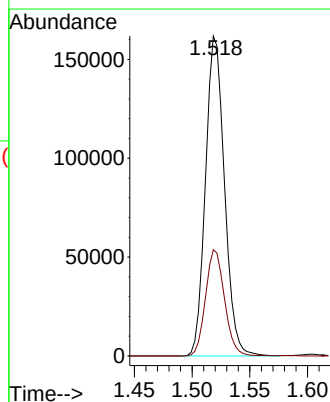
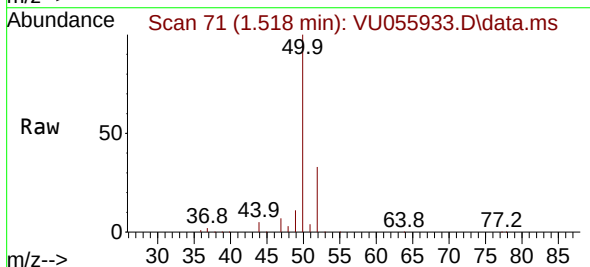
Instrument :  
 MSVOA\_U  
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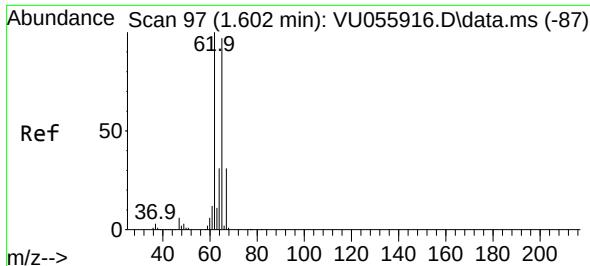
Tgt Ion: 85 Resp: 184556  
 Ion Ratio Lower Upper  
 85 100  
 87 31.8 25.0 37.4



#3  
 Chloromethane  
 Concen: 7.999 ug/L  
 RT: 1.518 min Scan# 71  
 Delta R.T. 0.003 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

Tgt Ion: 50 Resp: 185329  
 Ion Ratio Lower Upper  
 50 100  
 52 33.2 22.0 40.8

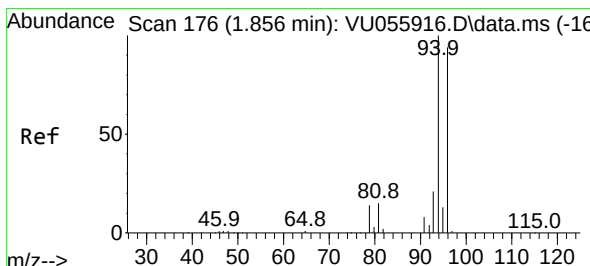
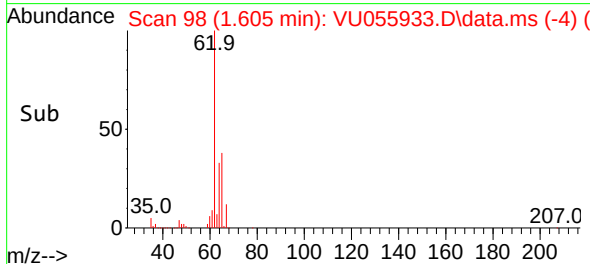
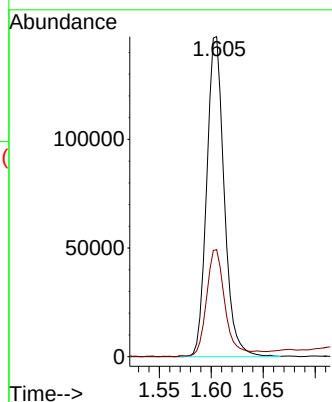
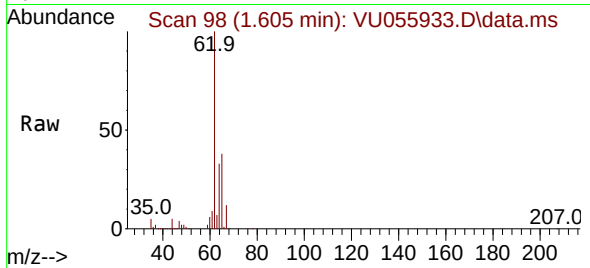




#5  
 Vinyl chloride  
 Concen: 6.729 ug/L  
 RT: 1.605 min Scan# 97  
 Delta R.T. 0.003 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

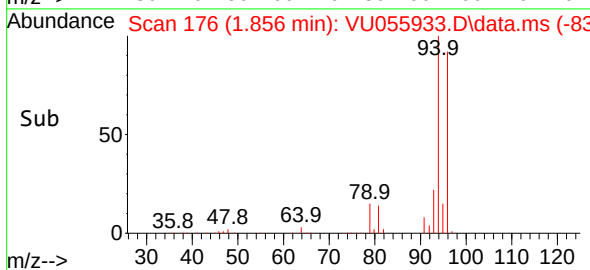
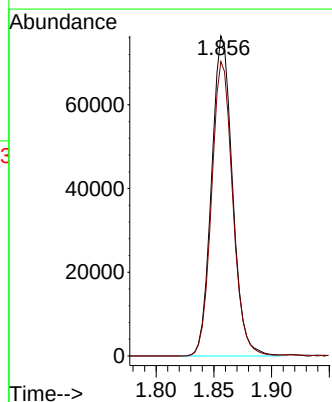
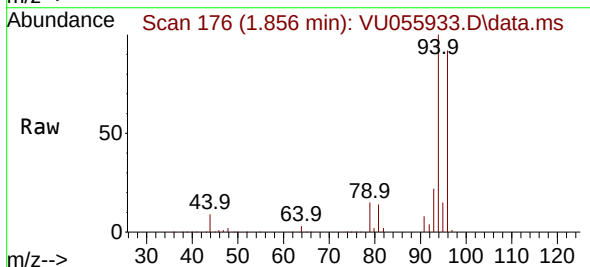
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 ClientSampleId :  
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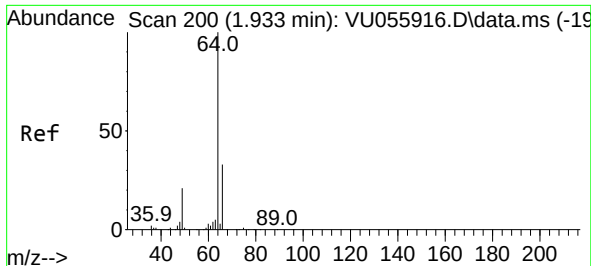
Tgt Ion: 62 Resp: 171717  
 Ion Ratio Lower Upper  
 62 100  
 64 33.5 24.2 45.0



#6  
 Bromomethane  
 Concen: 6.122 ug/L  
 RT: 1.856 min Scan# 176  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

Tgt Ion: 94 Resp: 96770  
 Ion Ratio Lower Upper  
 94 100  
 96 92.0 65.9 122.5

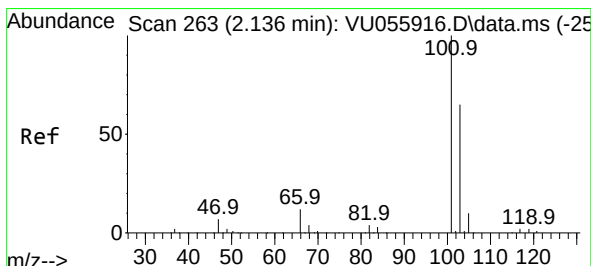
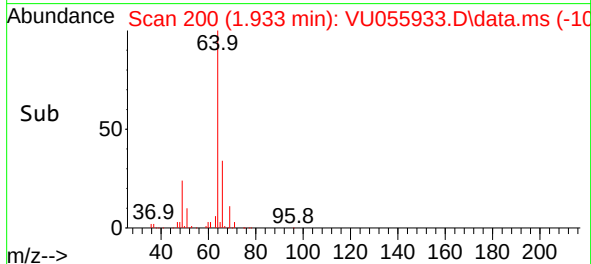
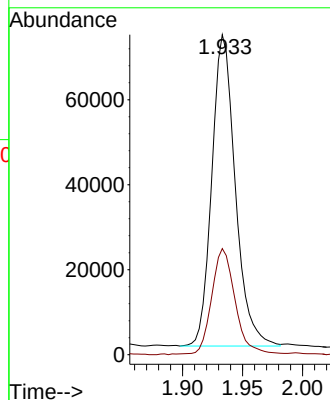
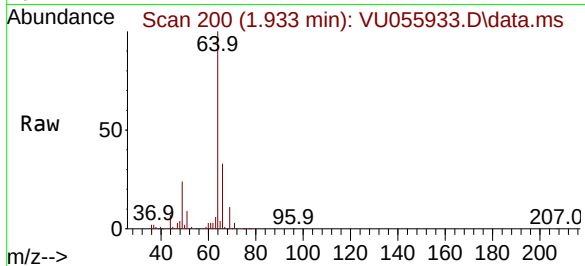




#8  
Chloroethane  
Concen: 6.662 ug/L  
RT: 1.933 min Scan# 200  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

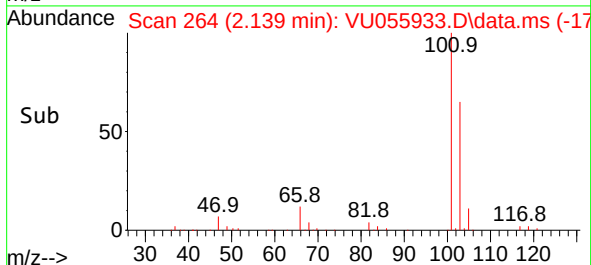
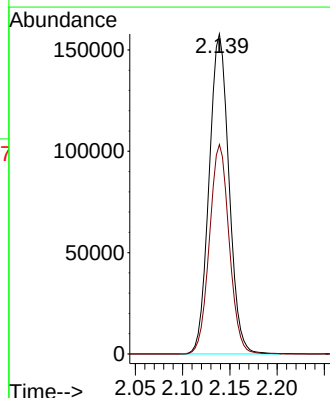
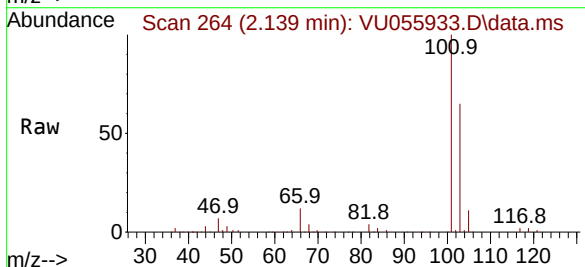
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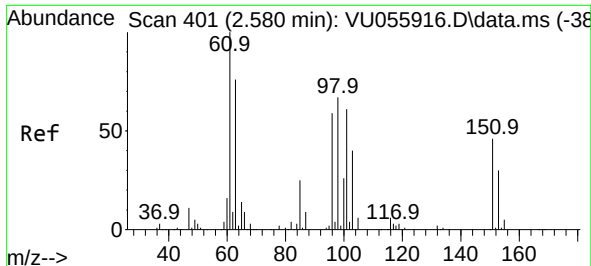
Tgt Ion: 64 Resp: 99617  
Ion Ratio Lower Upper  
64 100  
66 33.1 22.7 42.1



#9  
Trichlorofluoromethane  
Concen: 6.548 ug/L  
RT: 2.139 min Scan# 264  
Delta R.T. 0.003 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion:101 Resp: 230485  
Ion Ratio Lower Upper  
101 100  
103 65.0 52.2 78.2

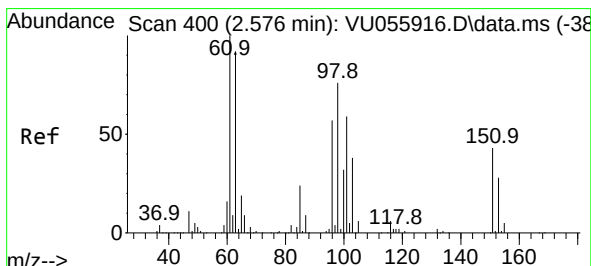
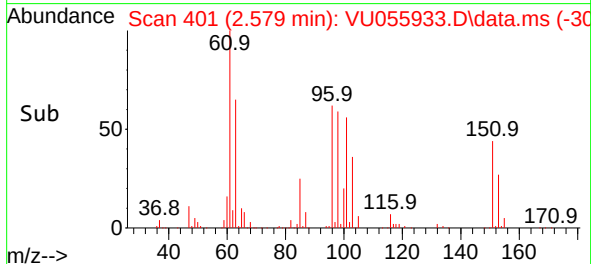
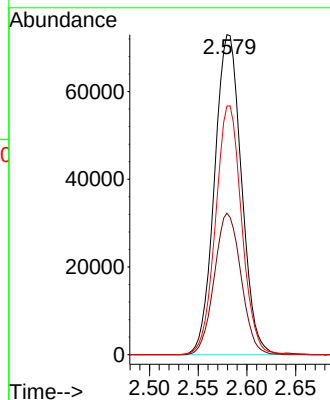
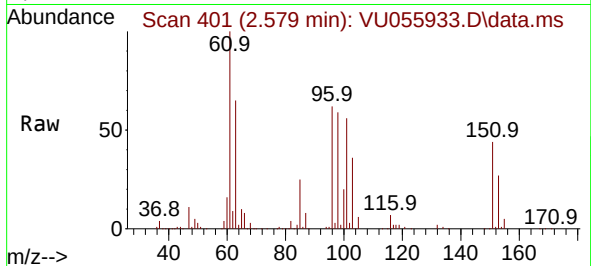




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 6.067 ug/L  
 RT: 2.579 min Scan# 401  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

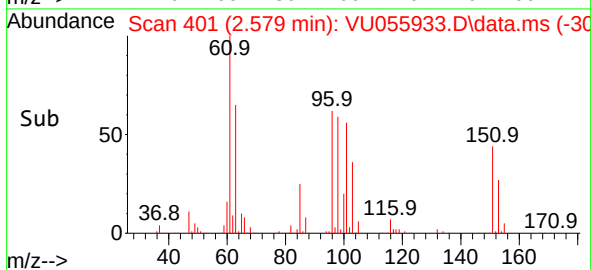
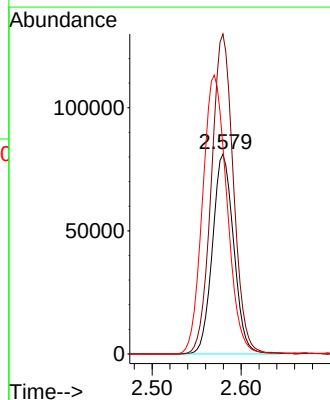
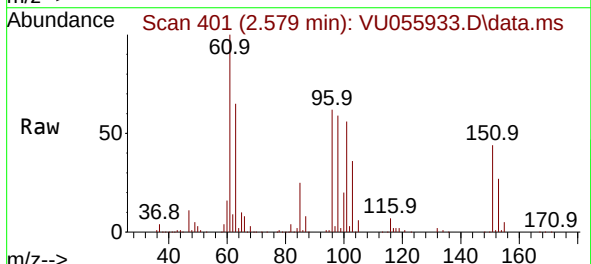
Instrument :  
 MSVOA\_U  
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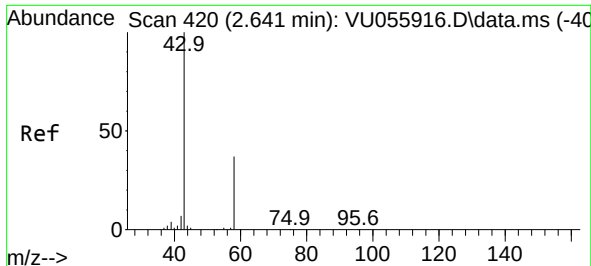
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 Ion Ratio Lower Upper  
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 151 75.6 58.4 87.6



#12  
 1,1-Dichloroethene  
 Concen: 6.509 ug/L  
 RT: 2.579 min Scan# 401  
 Delta R.T. 0.003 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

Tgt Ion: 96 Resp: 134317  
 Ion Ratio Lower Upper  
 96 100  
 61 160.3 123.8 230.0  
 63 104.0 111.0 206.2#





#13

Acetone

Concen: 48.555 ug/L

RT: 2.631 min Scan# 417

Delta R.T. -0.016 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

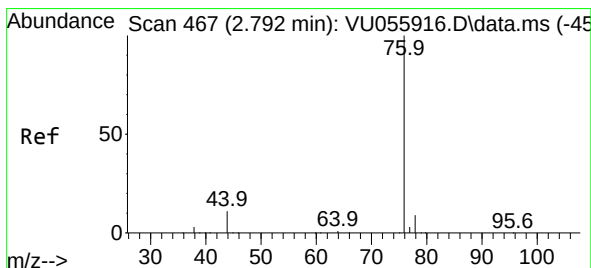
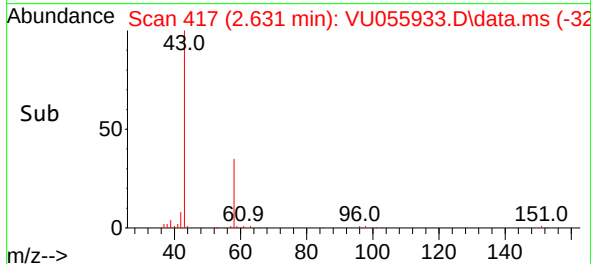
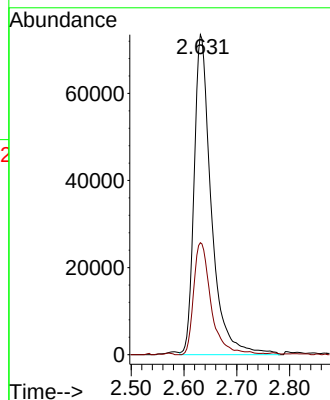
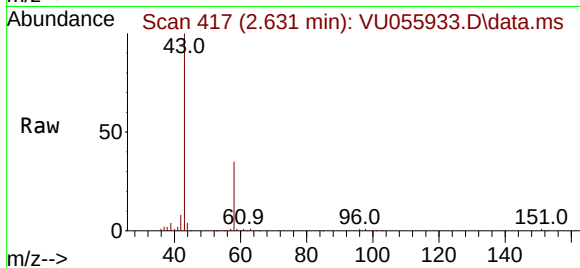
A49A1MS

Tgt Ion: 43 Resp: 166243

Ion Ratio Lower Upper

43 100

58 35.1 0.0 69.0



#14

Carbon disulfide

Concen: 8.177 ug/L

RT: 2.792 min Scan# 467

Delta R.T. 0.003 min

Lab File: VU055933.D

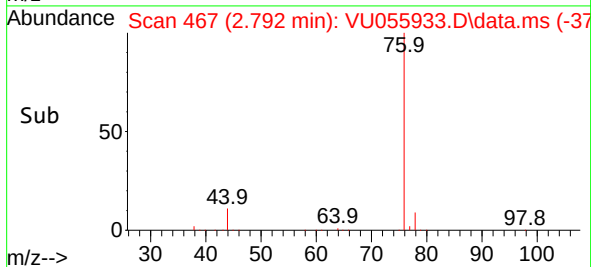
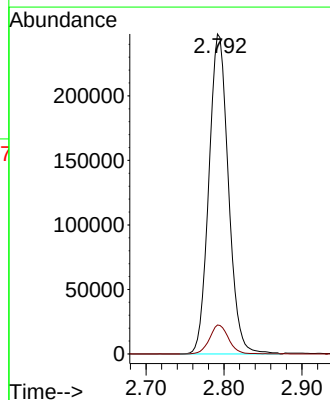
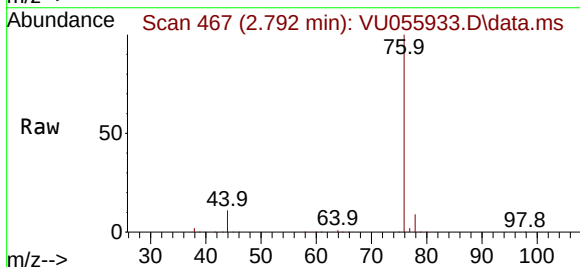
Acq: 27 Oct 2023 19:08

Tgt Ion: 76 Resp: 432015

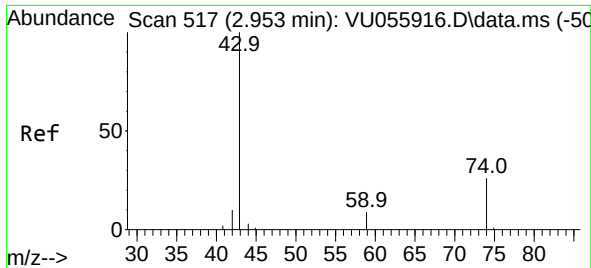
Ion Ratio Lower Upper

76 100

78 9.0 7.5 11.3



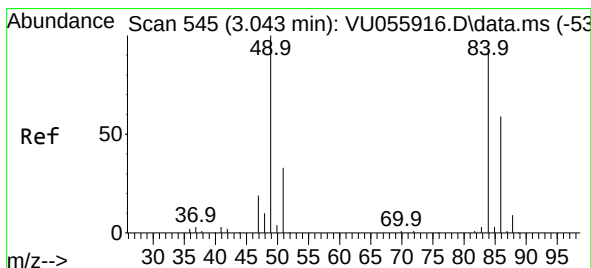
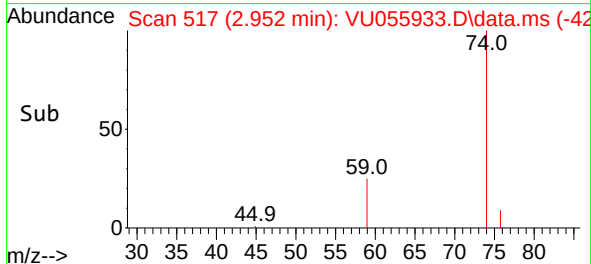
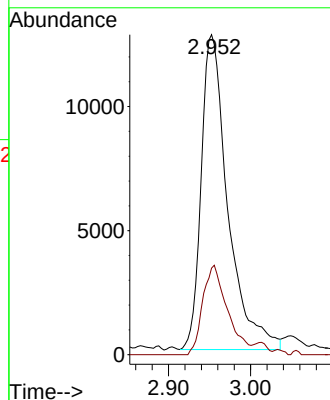
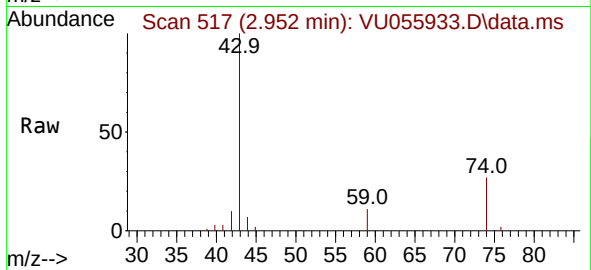




#15  
Methyl Acetate  
Concen: 4.114 ug/L  
RT: 2.952 min Scan# 517  
Delta R.T. -0.003 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

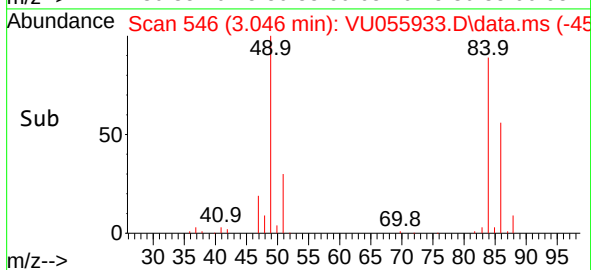
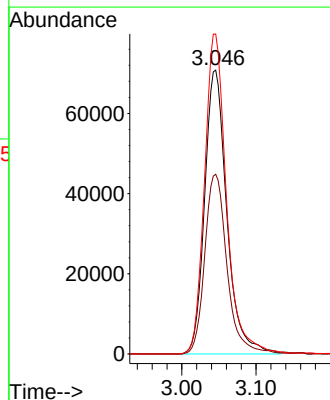
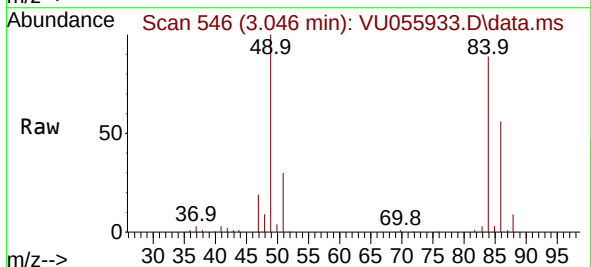
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

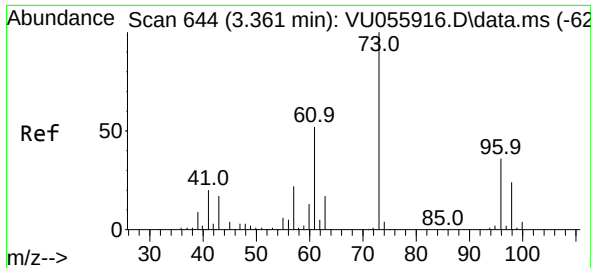
Tgt Ion: 43 Resp: 28695  
Ion Ratio Lower Upper  
43 100  
74 26.3 19.9 29.9



#16  
Methylene chloride  
Concen: 6.297 ug/L  
RT: 3.046 min Scan# 546  
Delta R.T. 0.003 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion: 84 Resp: 147224  
Ion Ratio Lower Upper  
84 100  
86 63.3 45.2 84.0  
49 112.7 78.8 146.3

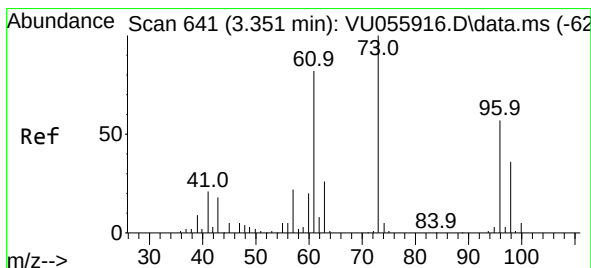
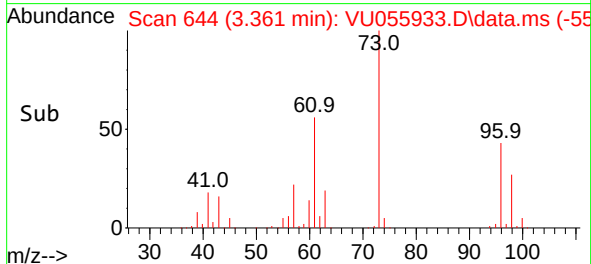
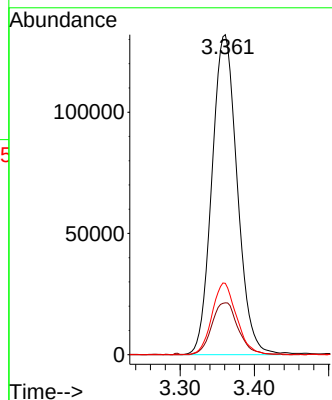
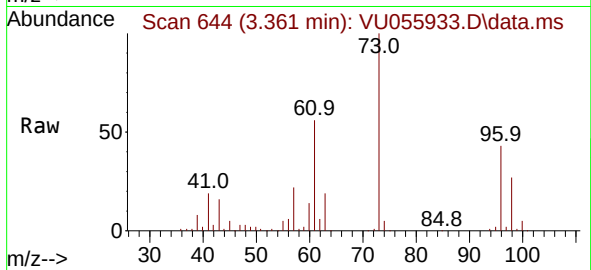




#17  
Methyl tert-butyl Ether  
Concen: 6.239 ug/L  
RT: 3.361 min Scan# 644  
Delta R.T. 0.003 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

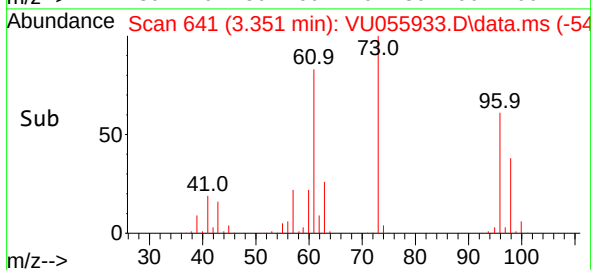
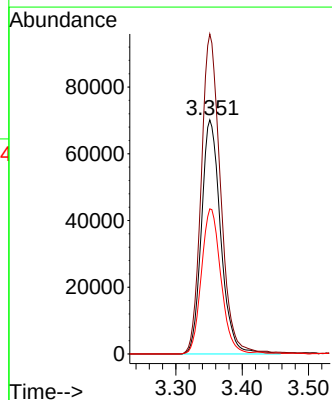
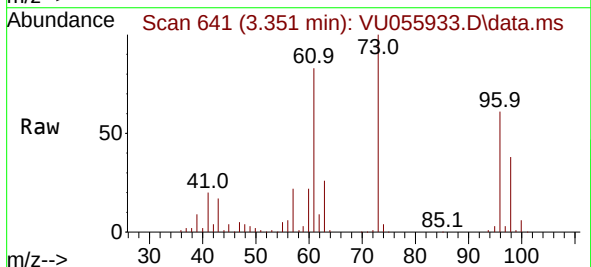
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

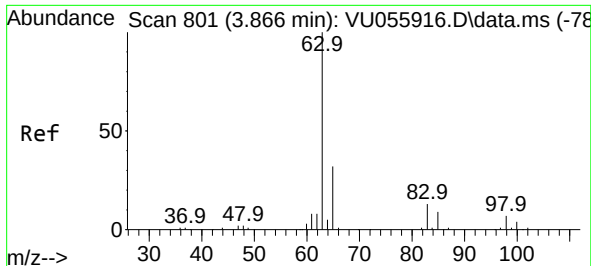
Tgt Ion: 73 Resp: 312443  
Ion Ratio Lower Upper  
73 100  
43 17.0 14.4 21.6  
57 21.8 17.0 25.4



#18  
trans-1,2-Dichloroethene  
Concen: 6.921 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion: 96 Resp: 141600  
Ion Ratio Lower Upper  
96 100  
61 136.7 97.5 181.1  
98 62.0 42.7 79.3

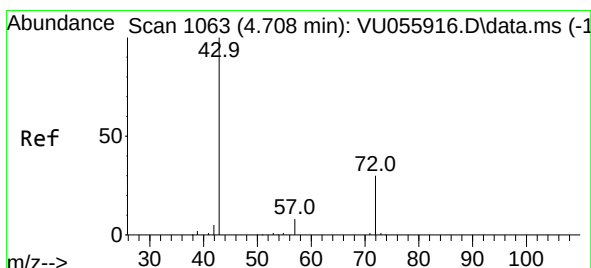
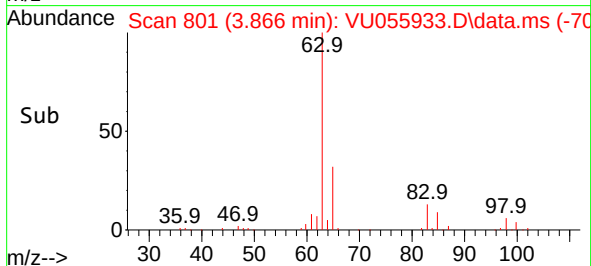
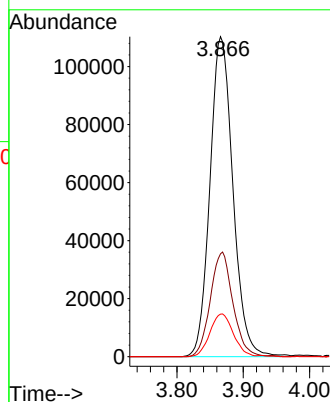
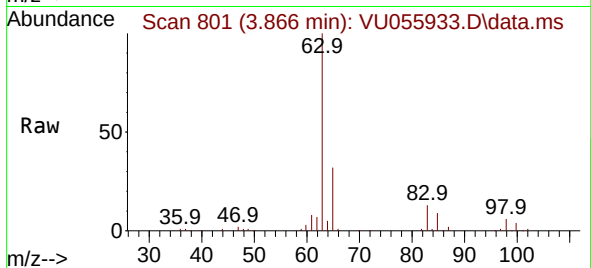




#19  
1,1-Dichloroethane  
Concen: 6.386 ug/L  
RT: 3.866 min Scan# 801  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

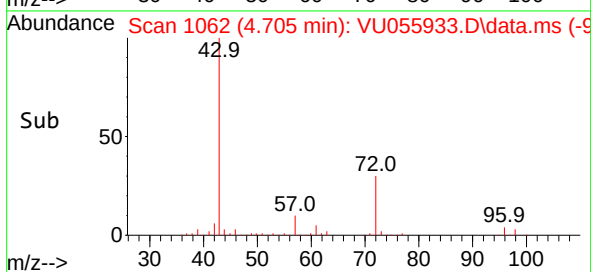
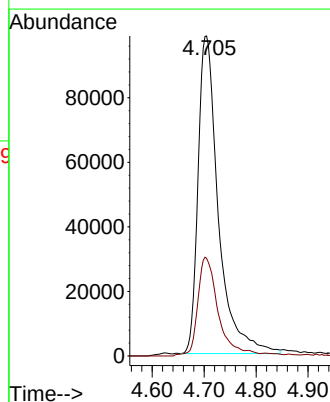
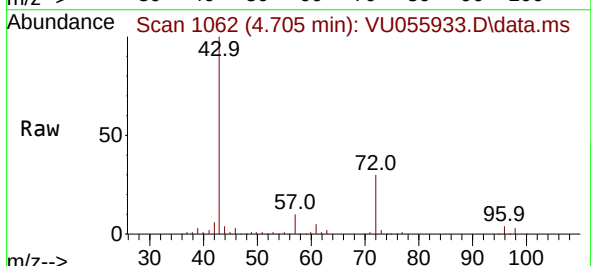
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

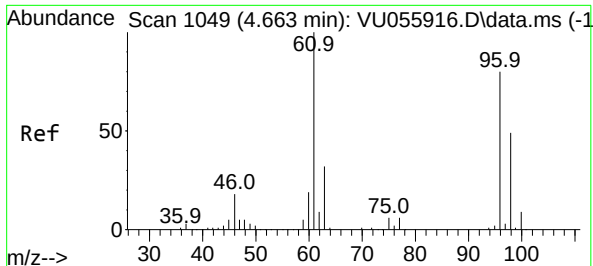
Tgt Ion: 63 Resp: 265301  
Ion Ratio Lower Upper  
63 100  
65 32.2 23.3 43.3  
83 13.3 10.5 19.5



#21  
2-Butanone  
Concen: 53.153 ug/L  
RT: 4.705 min Scan# 1062  
Delta R.T. -0.006 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion: 43 Resp: 267520  
Ion Ratio Lower Upper  
43 100  
72 30.4 14.4 43.4





#22

cis-1,2-Dichloroethene

Concen: 6.412 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

A49A1MS

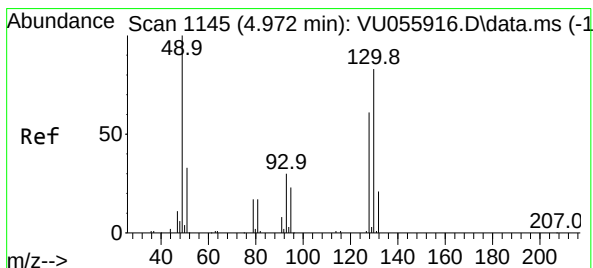
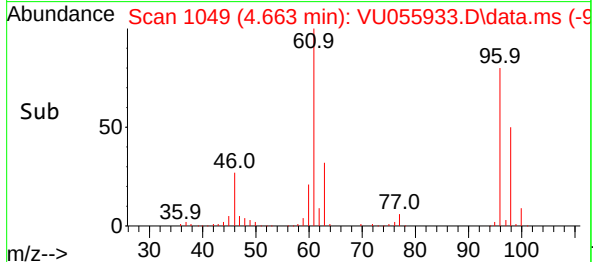
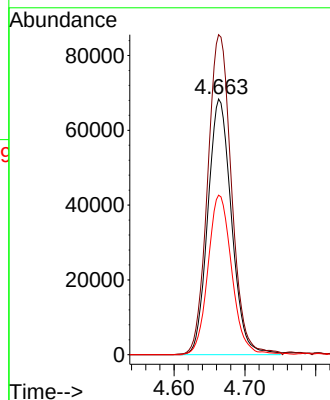
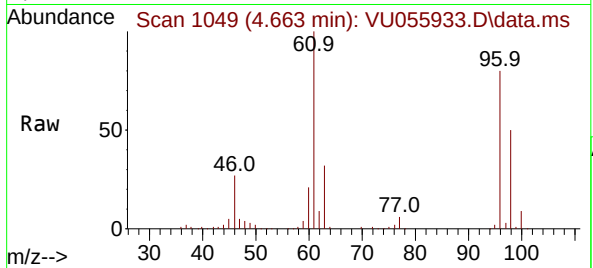
Tgt Ion: 96 Resp: 158833

Ion Ratio Lower Upper

96 100

61 125.2 93.8 174.2

98 62.4 45.6 84.8



#23

Bromochloromethane

Concen: 6.594 ug/L

RT: 4.972 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Tgt Ion: 128 Resp: 66551

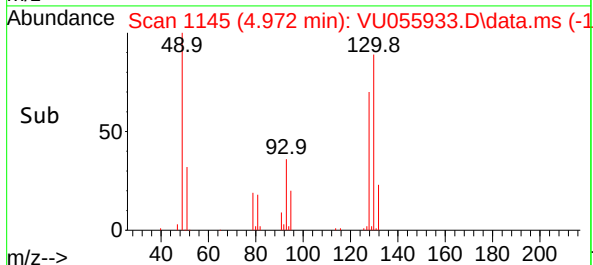
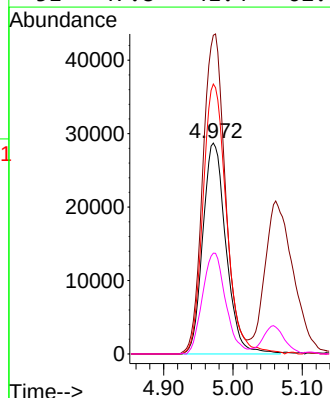
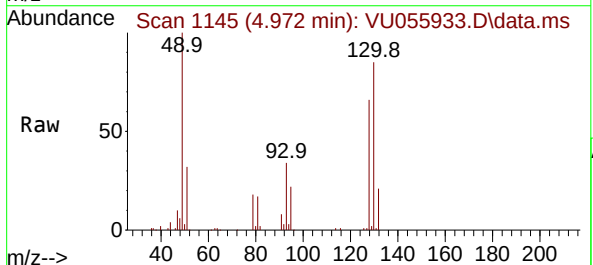
Ion Ratio Lower Upper

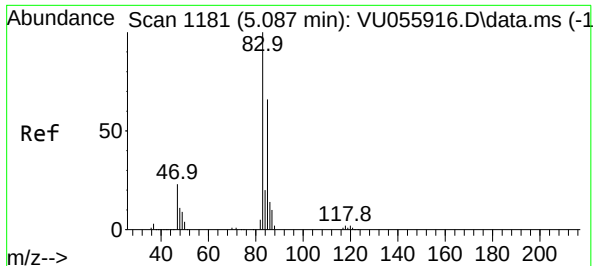
128 100

49 151.2 108.7 201.9

130 128.1 91.5 169.9

51 47.8 41.4 62.0





#25

Chloroform

Concen: 6.248 ug/L

RT: 5.084 min Scan# 1181

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

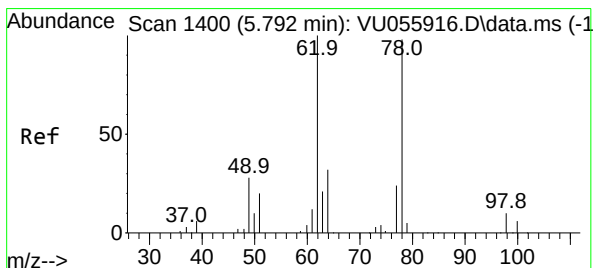
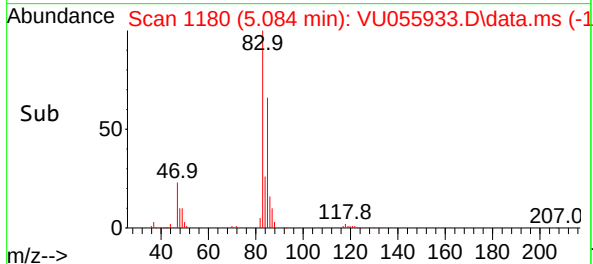
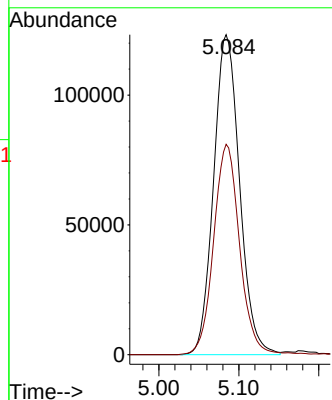
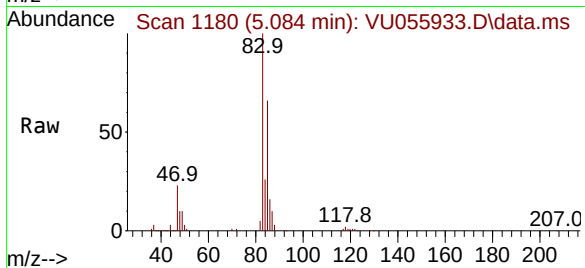
A49A1MS

Tgt Ion: 83 Resp: 278283

Ion Ratio Lower Upper

83 100

85 65.7 45.6 84.8



#27

1,2-Dichloroethane

Concen: 6.034 ug/L

RT: 5.792 min Scan# 1400

Delta R.T. -0.000 min

Lab File: VU055933.D

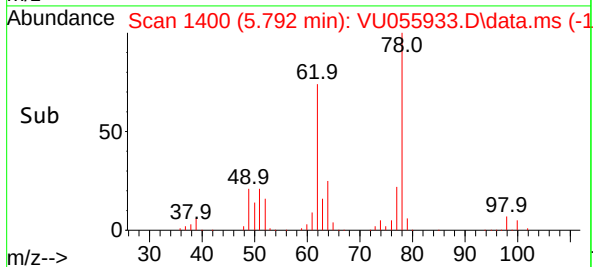
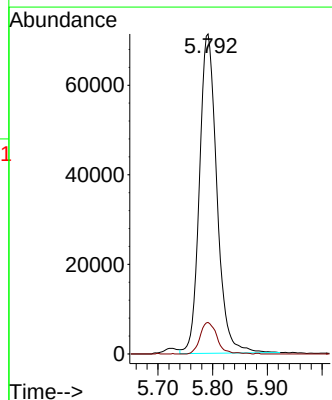
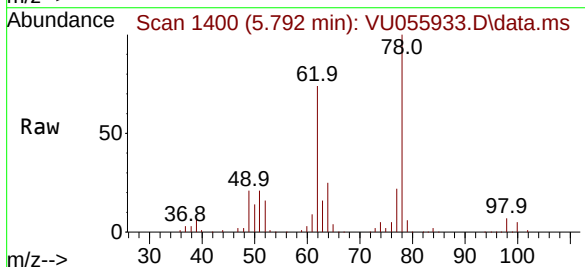
Acq: 27 Oct 2023 19:08

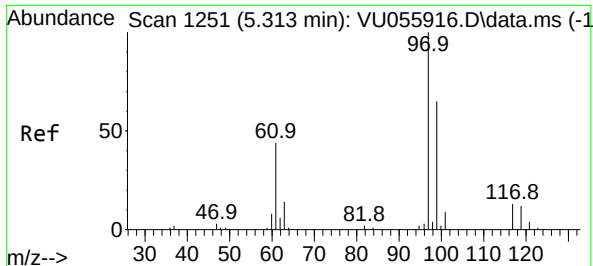
Tgt Ion: 62 Resp: 157909

Ion Ratio Lower Upper

62 100

98 9.9 7.4 11.2





#29

1,1,1-Trichloroethane

Concen: 6.430 ug/L

RT: 5.312 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

A49A1MS

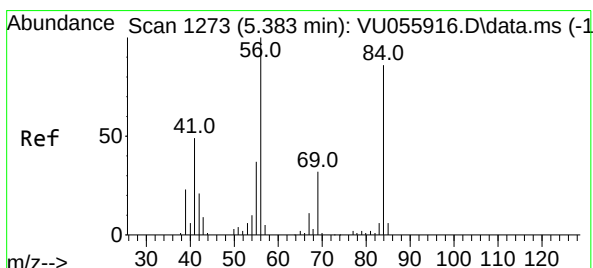
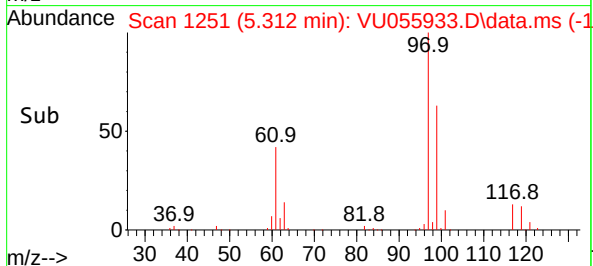
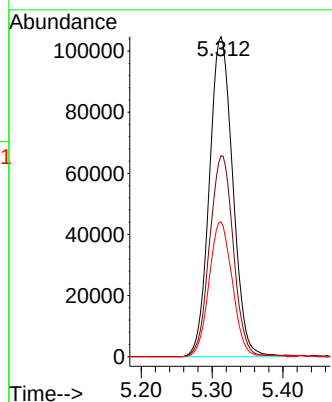
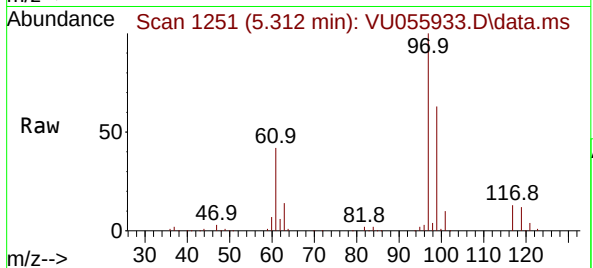
Tgt Ion: 97 Resp: 240834

Ion Ratio Lower Upper

97 100

99 63.6 50.8 76.2

61 41.8 35.0 52.4



#30

Cyclohexane

Concen: 7.193 ug/L

RT: 5.386 min Scan# 1274

Delta R.T. 0.003 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

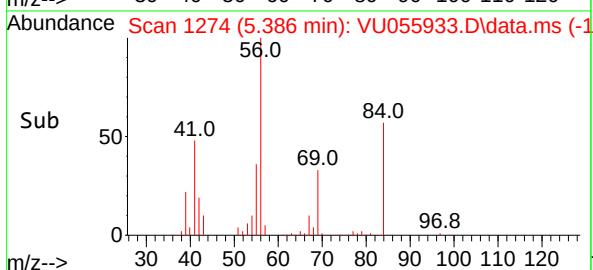
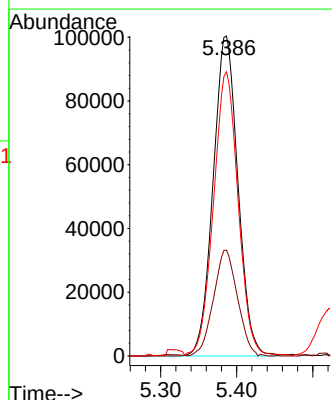
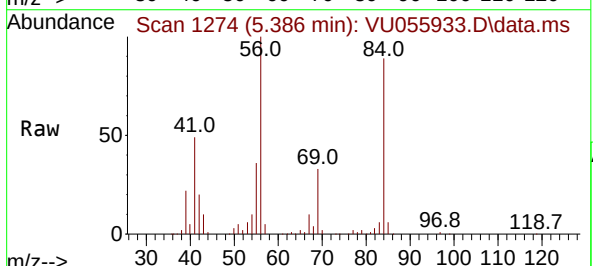
Tgt Ion: 56 Resp: 227327

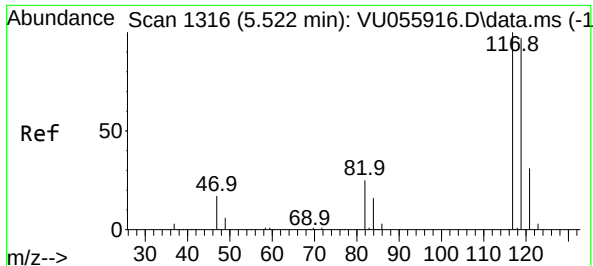
Ion Ratio Lower Upper

56 100

69 32.1 25.4 38.2

84 88.4 71.0 106.6

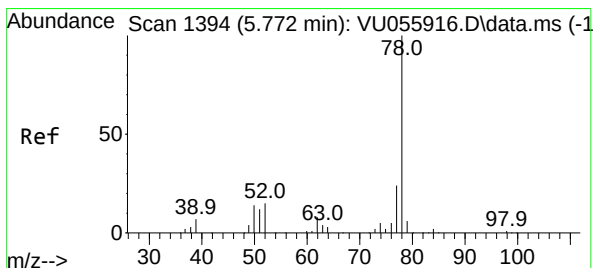
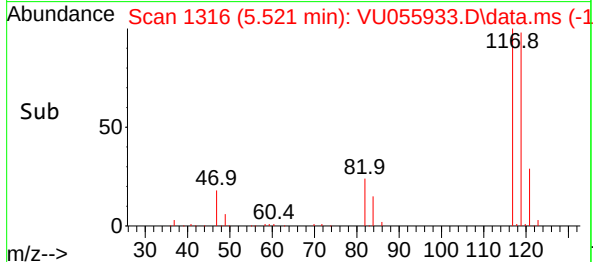
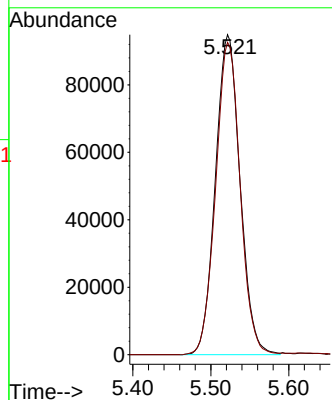
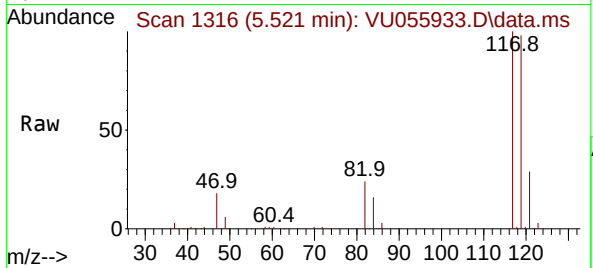




#31  
Carbon tetrachloride  
Concen: 6.537 ug/L  
RT: 5.521 min Scan# 1117  
Delta R.T. 0.003 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

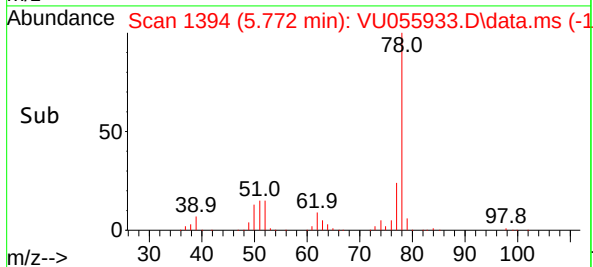
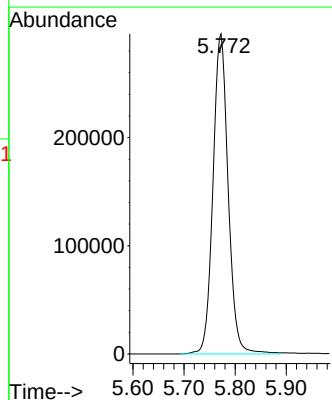
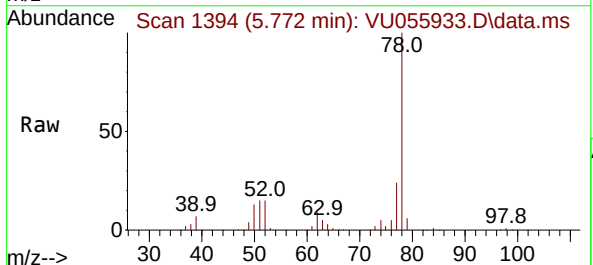
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

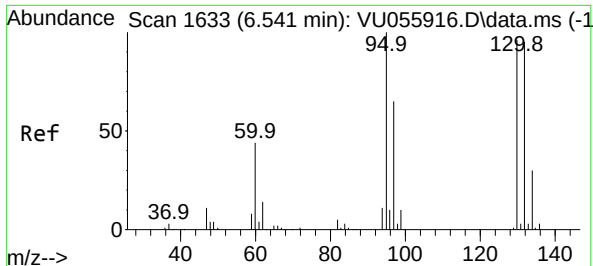
Tgt Ion:117 Resp: 208868  
Ion Ratio Lower Upper  
117 100  
119 96.8 75.1 112.7



#33  
Benzene  
Concen: 6.733 ug/L  
RT: 5.772 min Scan# 1394  
Delta R.T. 0.003 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion: 78 Resp: 610581





#34

Trichloroethene

Concen: 6.376 ug/L

RT: 6.541 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

A49A1MS

Tgt Ion: 95 Resp: 161752

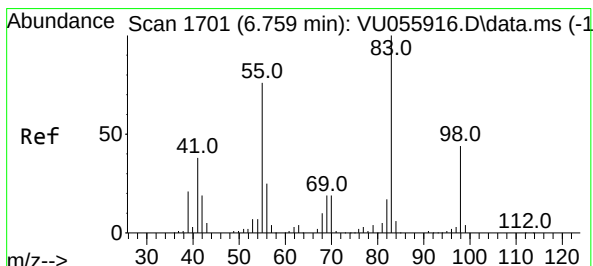
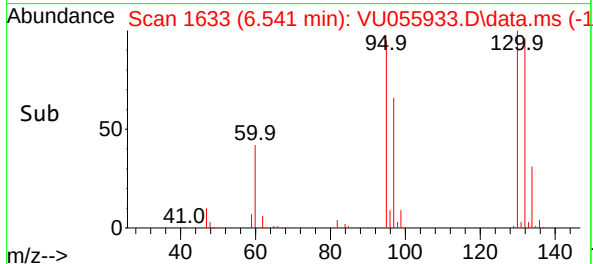
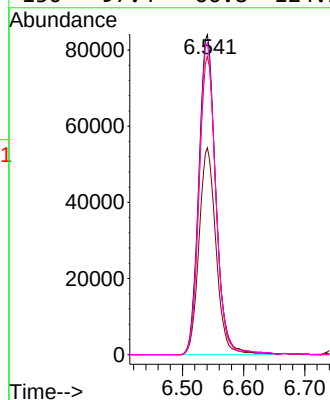
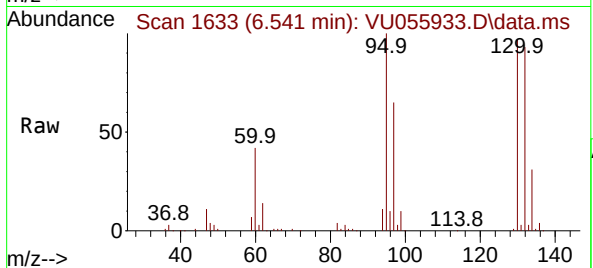
Ion Ratio Lower Upper

95 100

97 64.7 45.4 84.2

132 93.2 63.9 118.7

130 97.4 66.8 124.2



#35

Methylcyclohexane

Concen: 6.891 ug/L

RT: 6.759 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

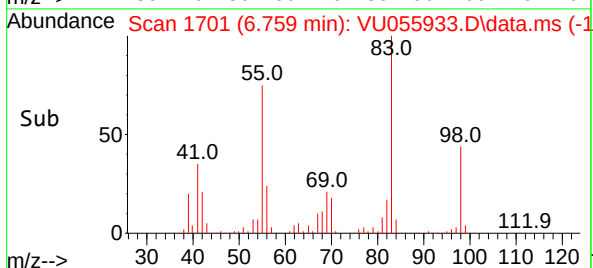
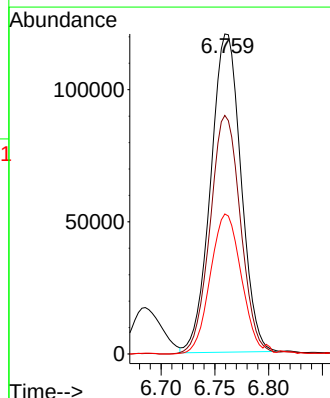
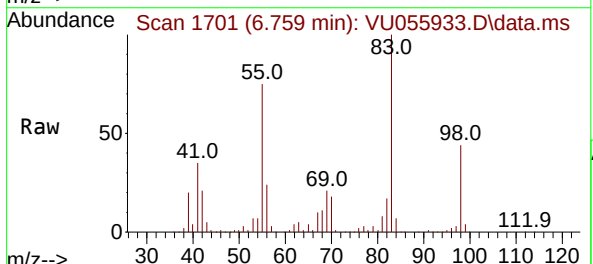
Tgt Ion: 83 Resp: 235936

Ion Ratio Lower Upper

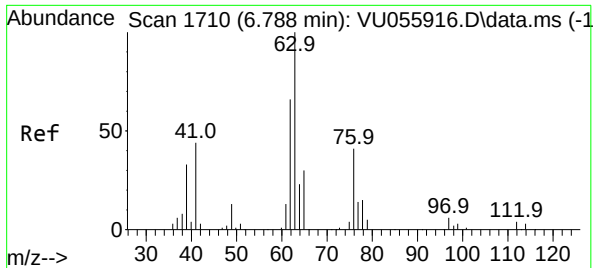
83 100

55 75.7 62.4 93.6

98 45.4 37.4 56.2



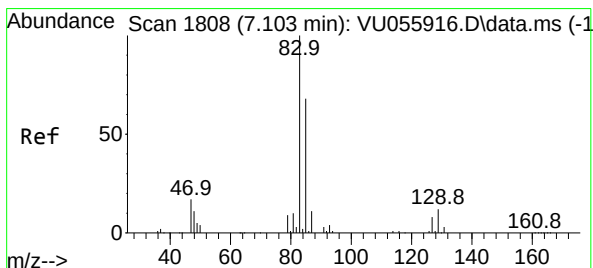
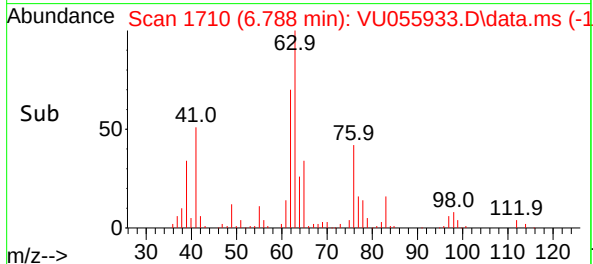
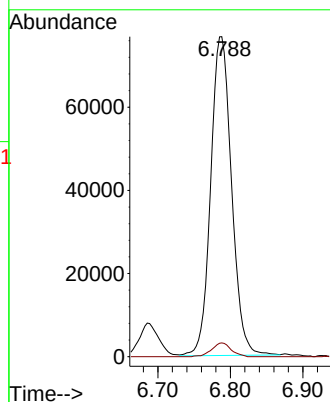
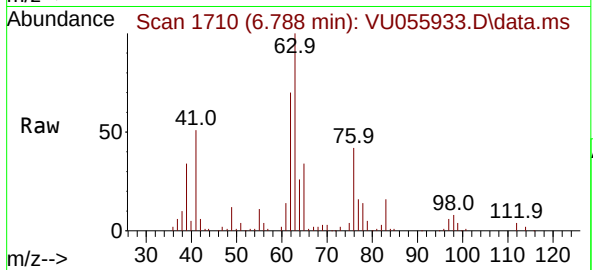




#37  
1,2-Dichloropropane  
Concen: 6.376 ug/L  
RT: 6.788 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

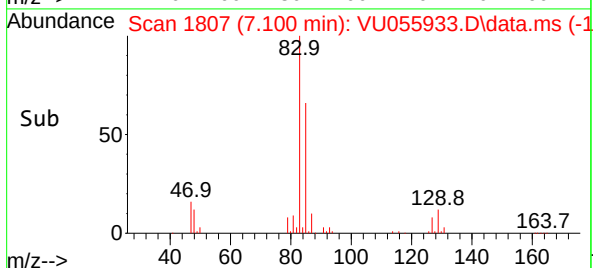
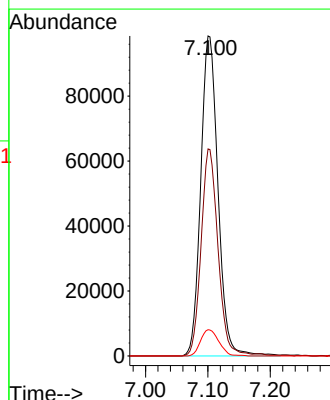
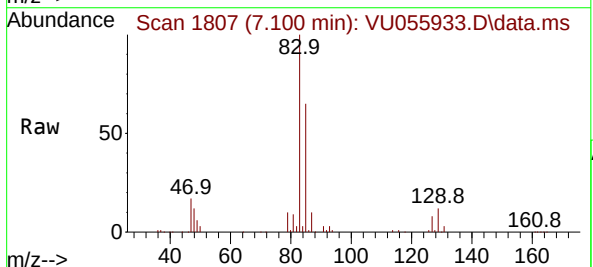
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

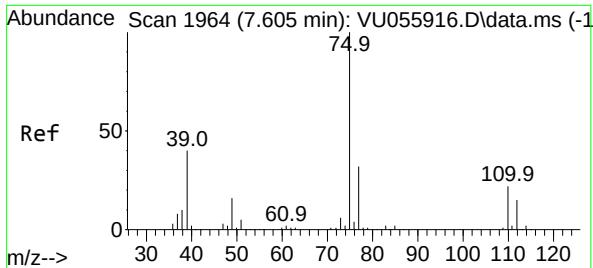
Tgt Ion: 63 Resp: 153524  
Ion Ratio Lower Upper  
63 100  
112 4.0 3.1 4.7



#38  
Bromodichloromethane  
Concen: 6.275 ug/L  
RT: 7.100 min Scan# 1807  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion: 83 Resp: 189684  
Ion Ratio Lower Upper  
83 100  
85 64.7 44.9 83.3  
127 8.2 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 5.948 ug/L

RT: 7.605 min Scan# 1964

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

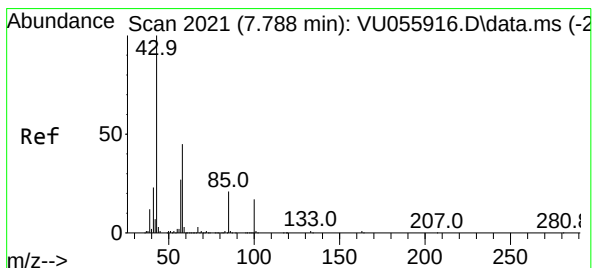
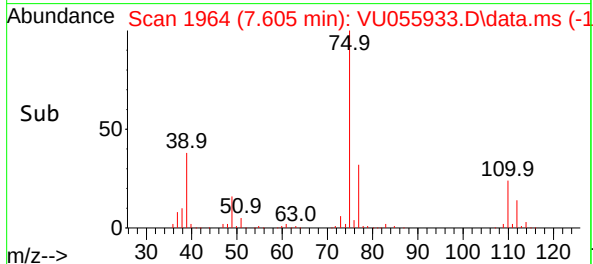
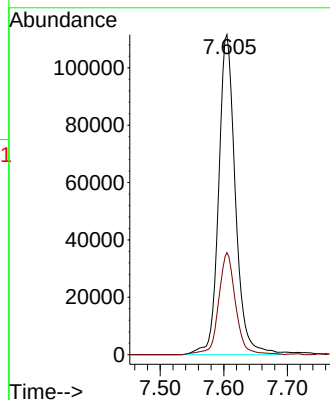
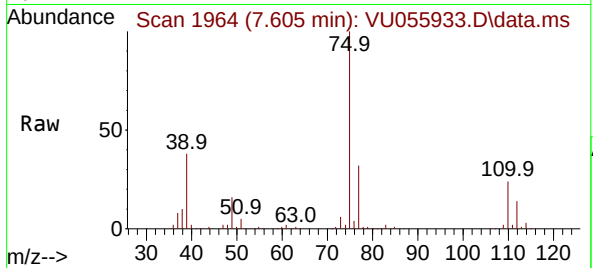
A49A1MS

Tgt Ion: 75 Resp: 204036

Ion Ratio Lower Upper

75 100

77 31.9 21.7 40.3



#40

4-Methyl-2-pentanone

Concen: 59.543 ug/L

RT: 7.785 min Scan# 2020

Delta R.T. -0.003 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

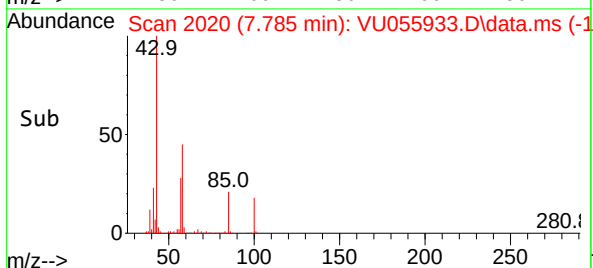
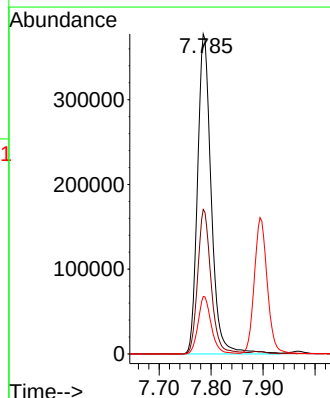
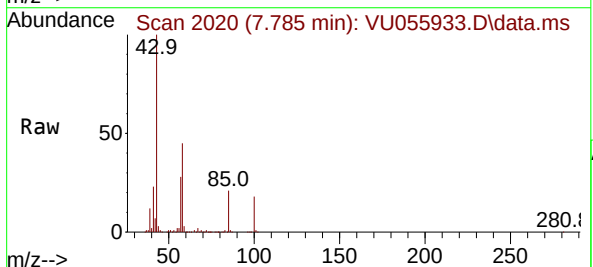
Tgt Ion: 43 Resp: 691174

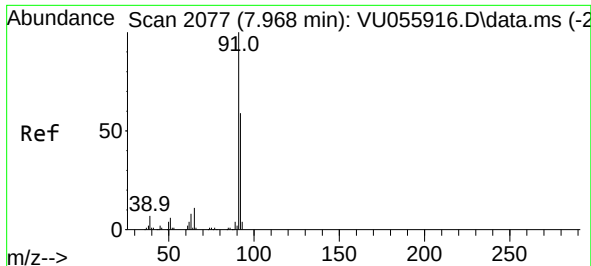
Ion Ratio Lower Upper

43 100

58 44.2 34.0 51.0

100 17.3 13.0 19.6





#42

Toluene

Concen: 6.864 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

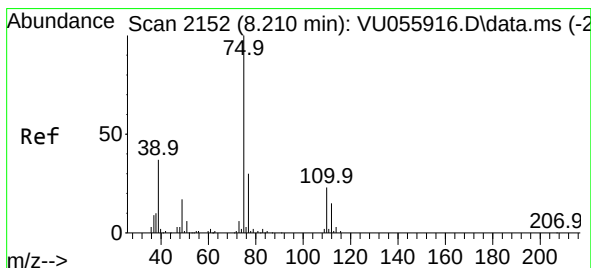
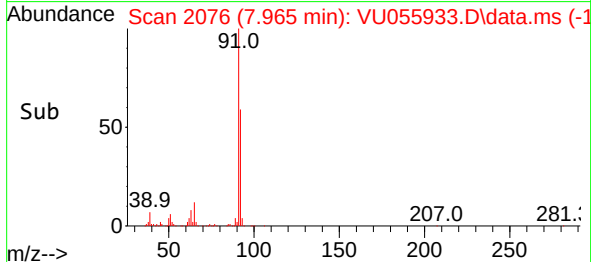
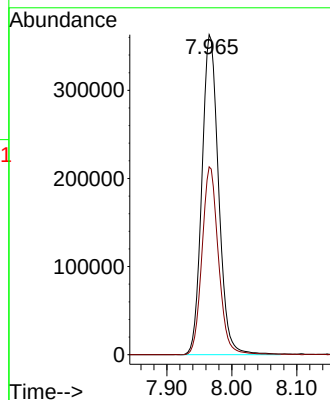
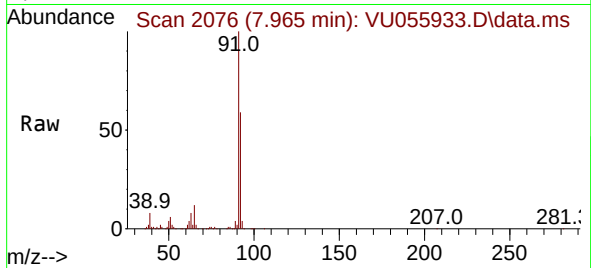
A49A1MS

Tgt Ion: 91 Resp: 650599

Ion Ratio Lower Upper

91 100

92 58.7 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 5.937 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. -0.000 min

Lab File: VU055933.D

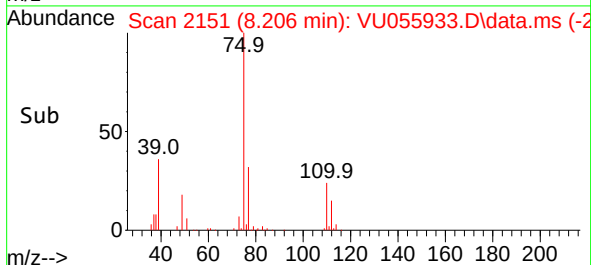
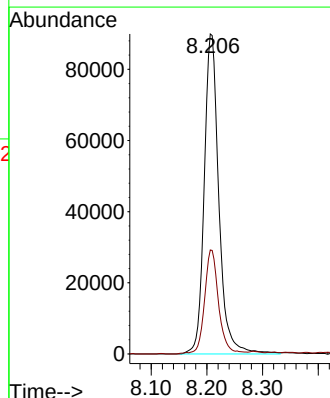
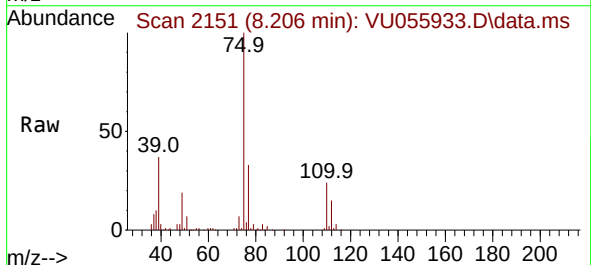
Acq: 27 Oct 2023 19:08

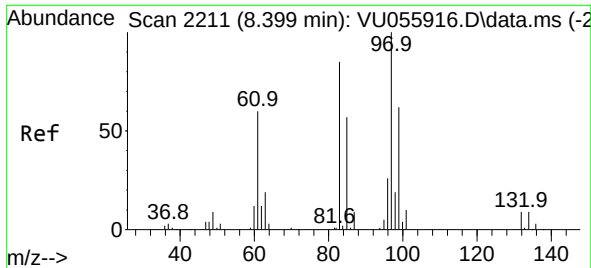
Tgt Ion: 75 Resp: 164422

Ion Ratio Lower Upper

75 100

77 32.5 21.7 40.3

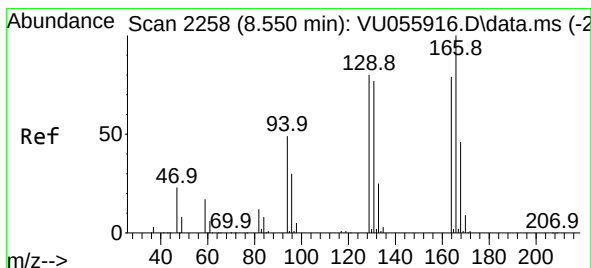
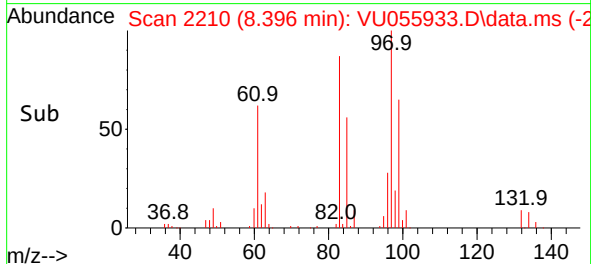
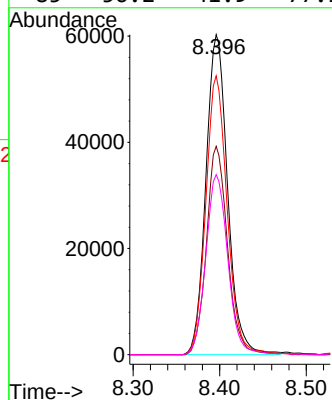
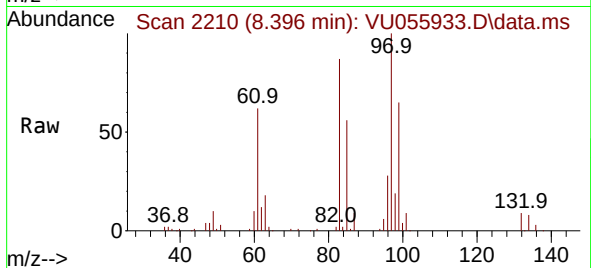




#45  
1,1,2-Trichloroethane  
Concen: 6.209 ug/L  
RT: 8.396 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

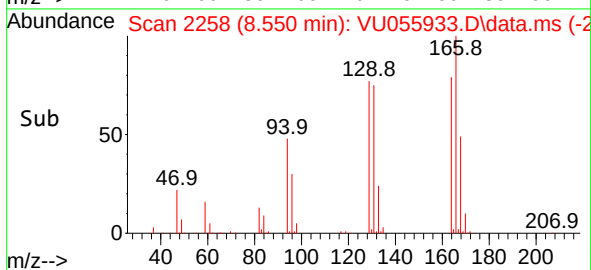
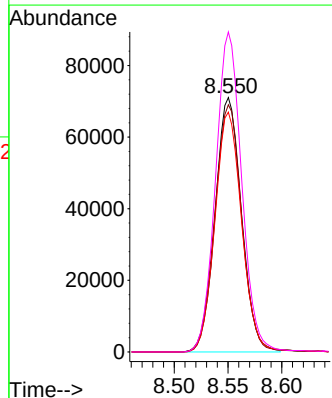
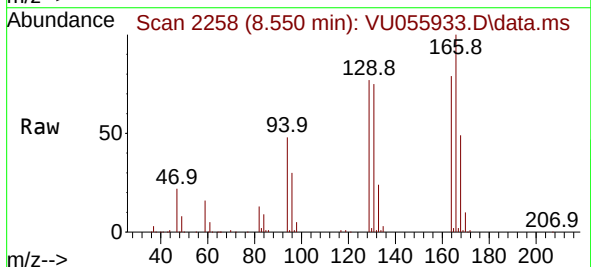
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

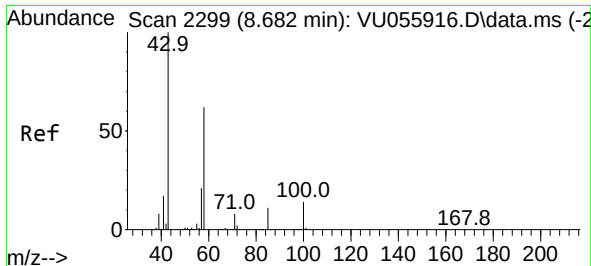
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 105124 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 99 65.1     | 45.3 84.1    |
| 83 87.2     | 61.9 115.1   |
| 85 56.2     | 41.9 77.9    |



#47  
Tetrachloroethene  
Concen: 6.790 ug/L  
RT: 8.550 min Scan# 2258  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:164 | Resp: | 120635 |
| Ion | Ratio   | Lower | Upper  |
| 164 | 100     |       |        |
| 129 | 97.2    | 72.2  | 134.0  |
| 131 | 94.3    | 70.8  | 131.6  |
| 166 | 125.8   | 89.0  | 165.2  |





#48

2-Hexanone

Concen: 54.081 ug/L

RT: 8.679 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

A49A1MS

Tgt Ion: 43 Resp: 493597

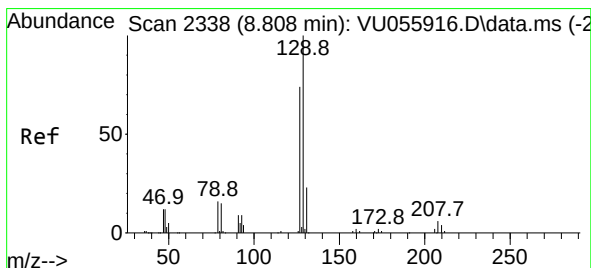
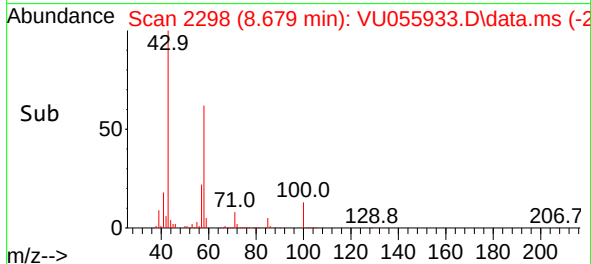
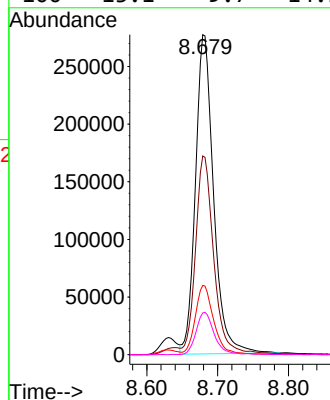
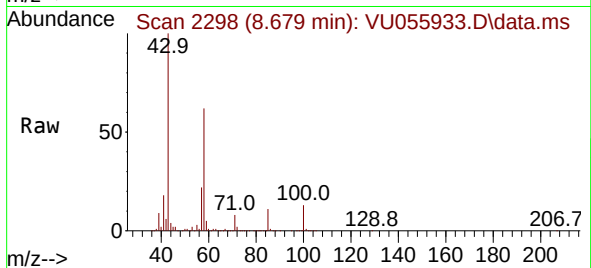
Ion Ratio Lower Upper

43 100

58 62.9 49.5 74.3

57 21.7 16.9 25.3

100 13.1 9.7 14.5



#49

Dibromochloromethane

Concen: 6.503 ug/L

RT: 8.804 min Scan# 2337

Delta R.T. -0.000 min

Lab File: VU055933.D

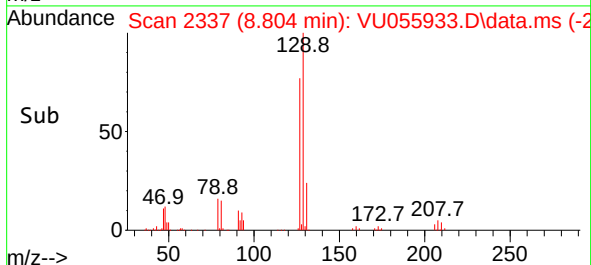
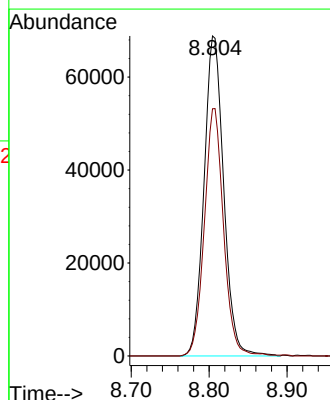
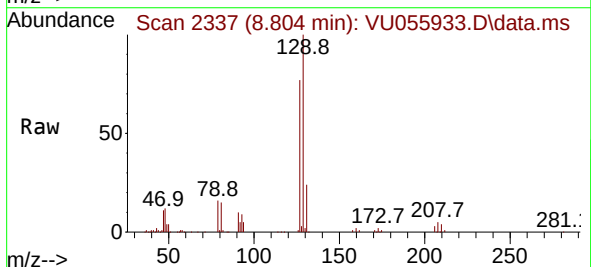
Acq: 27 Oct 2023 19:08

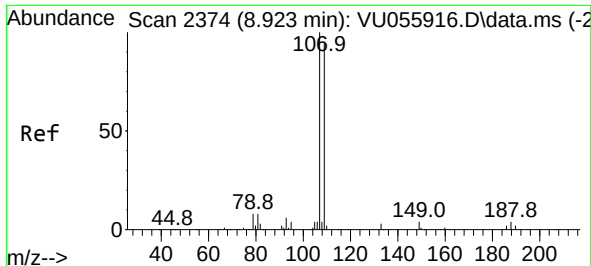
Tgt Ion: 129 Resp: 120860

Ion Ratio Lower Upper

129 100

127 77.3 53.5 99.5

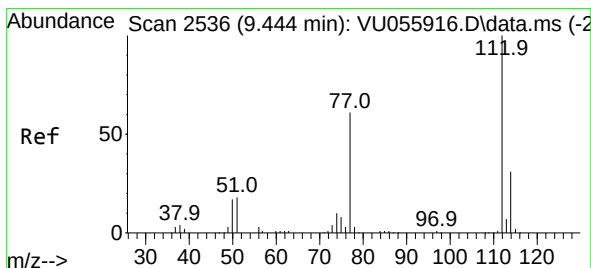
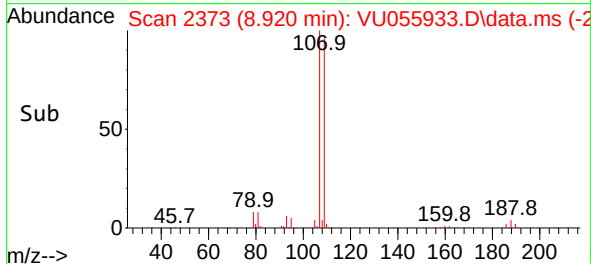
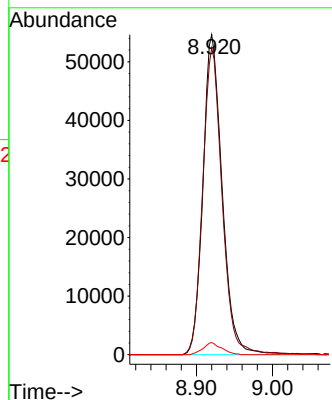
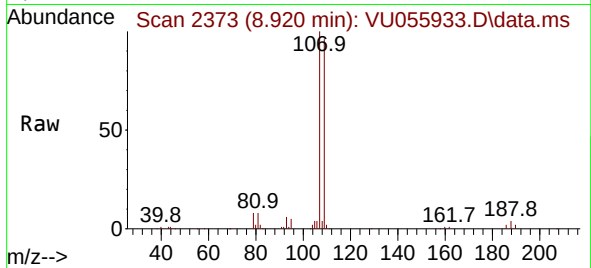




#50  
1,2-Dibromoethane  
Concen: 6.225 ug/L  
RT: 8.920 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

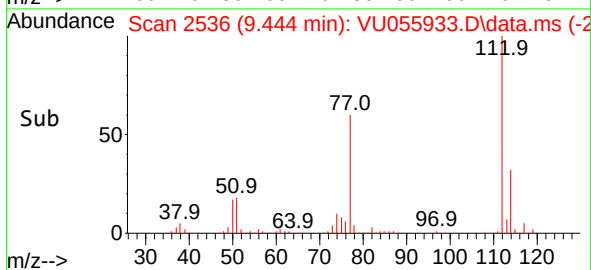
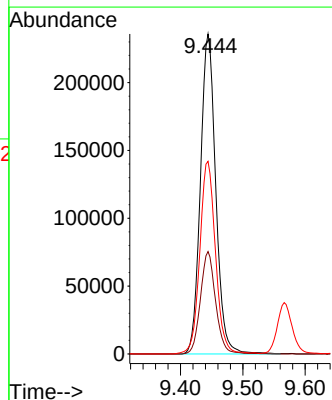
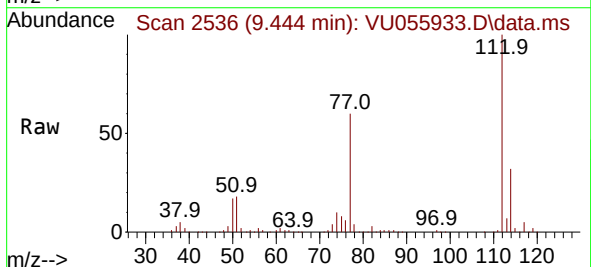
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

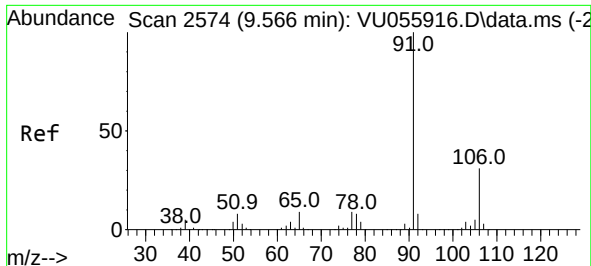
Tgt Ion:107 Resp: 95634  
Ion Ratio Lower Upper  
107 100  
109 95.9 65.0 120.6  
188 3.8 2.5 3.7#



#51  
Chlorobenzene  
Concen: 6.499 ug/L  
RT: 9.444 min Scan# 2536  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion:112 Resp: 403683  
Ion Ratio Lower Upper  
112 100  
114 32.0 22.3 41.5  
77 60.2 49.9 74.9

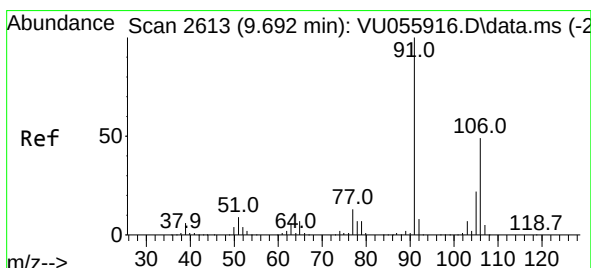
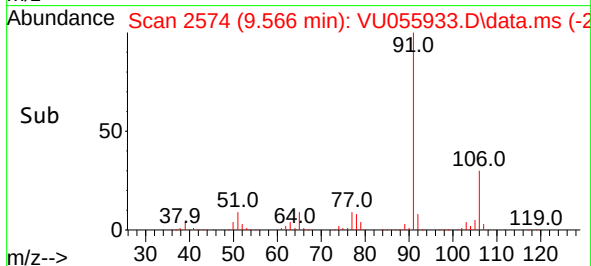
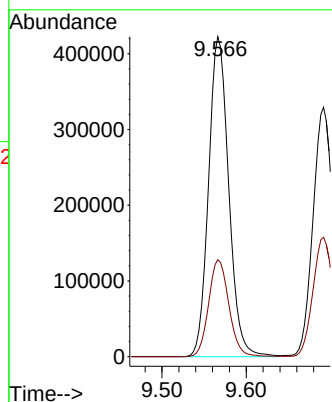
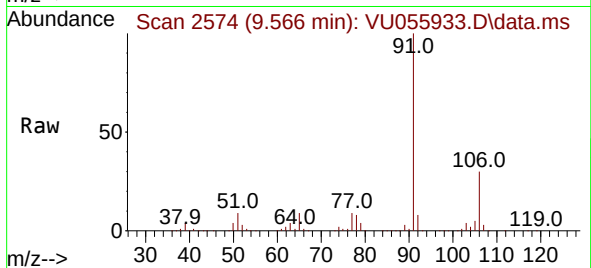




#52  
Ethylbenzene  
Concen: 6.548 ug/L  
RT: 9.566 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

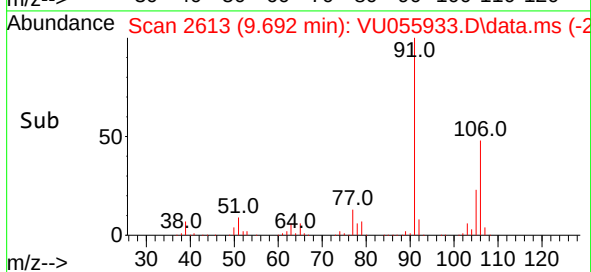
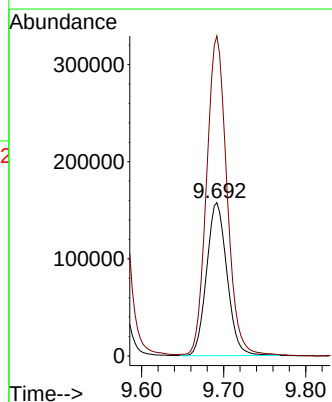
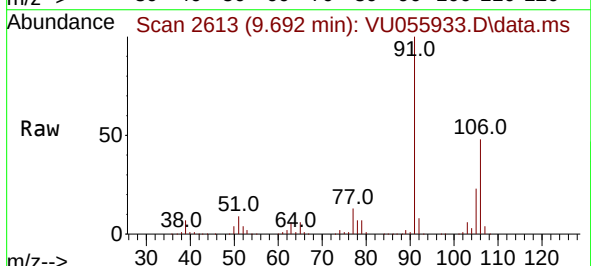
Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

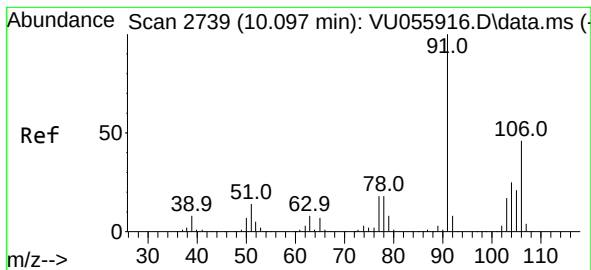
Tgt Ion: 91 Resp: 703565  
Ion Ratio Lower Upper  
91 100  
106 30.3 21.3 39.5



#53  
m,p-Xylene  
Concen: 6.781 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion: 106 Resp: 272272  
Ion Ratio Lower Upper  
106 100  
91 208.7 150.4 279.2





#54

o-Xylene

Concen: 6.611 ug/L

RT: 10.097 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

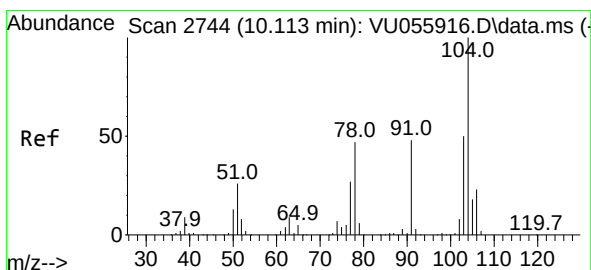
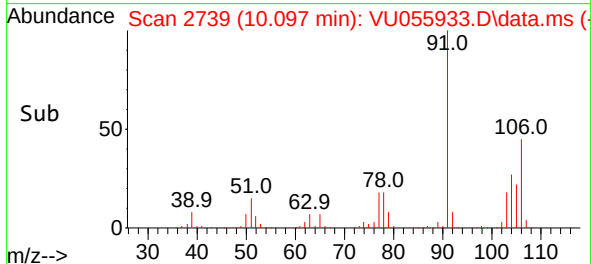
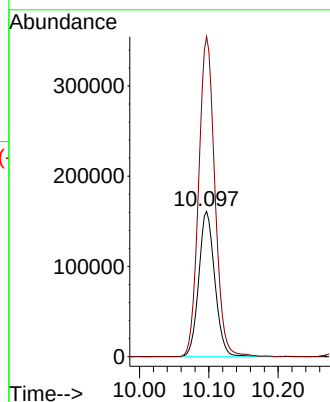
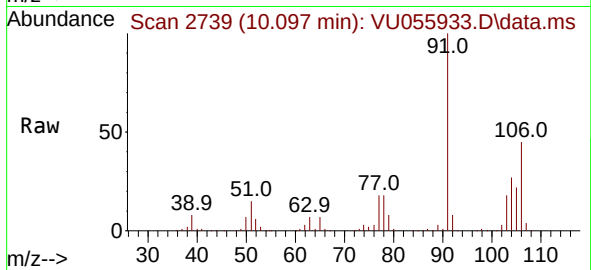
A49A1MS

Tgt Ion:106 Resp: 259760

Ion Ratio Lower Upper

106 100

91 220.2 154.6 287.2



#55

Styrene

Concen: 6.565 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. -0.000 min

Lab File: VU055933.D

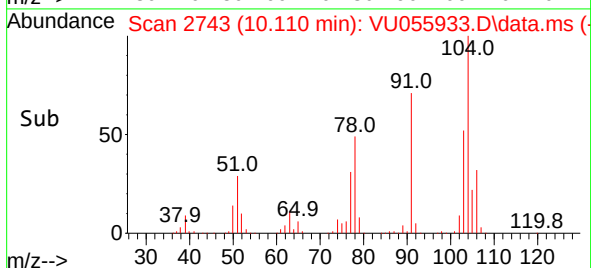
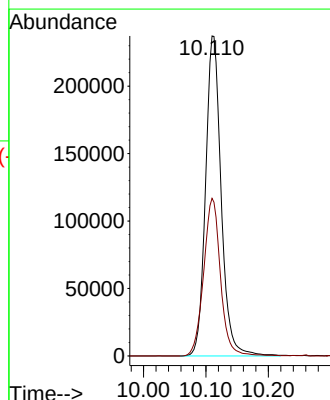
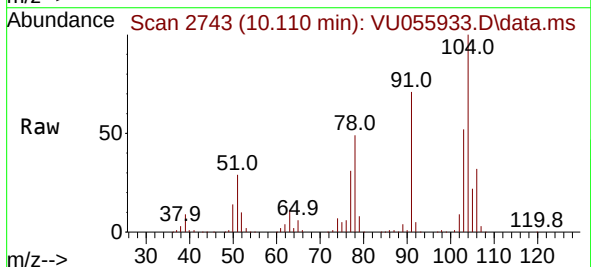
Acq: 27 Oct 2023 19:08

Tgt Ion:104 Resp: 413459

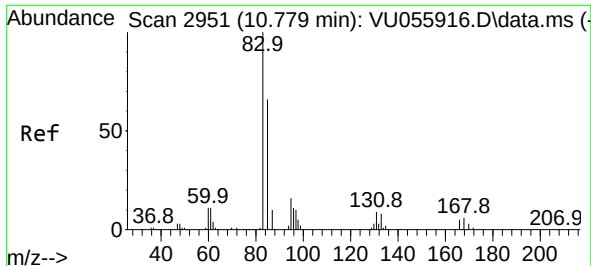
Ion Ratio Lower Upper

104 100

78 49.2 33.9 63.0







#57

1,1,2,2-Tetrachloroethane

Concen: 6.237 ug/L

RT: 10.775 min Scan# 2951

Delta R.T. -0.003 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

A49A1MS

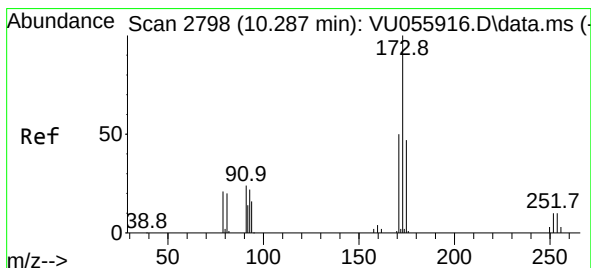
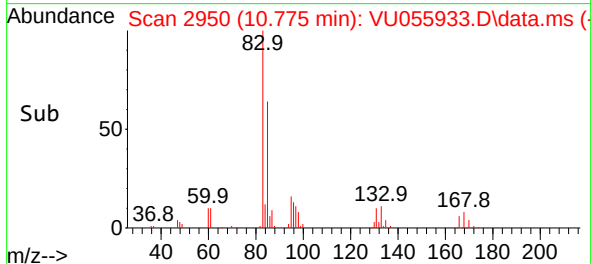
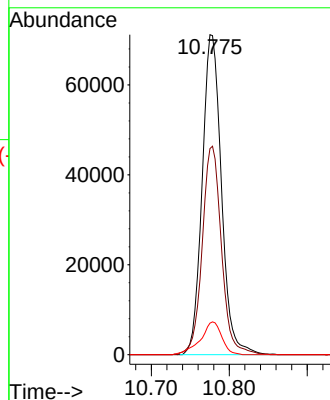
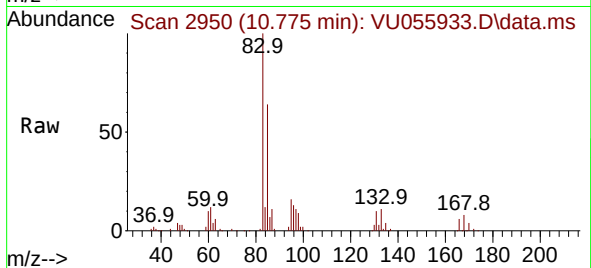
Tgt Ion: 83 Resp: 122240

Ion Ratio Lower Upper

83 100

85 64.4 46.2 85.8

131 9.9 7.2 10.8



#59

Bromoform

Concen: 6.278 ug/L

RT: 10.286 min Scan# 2798

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

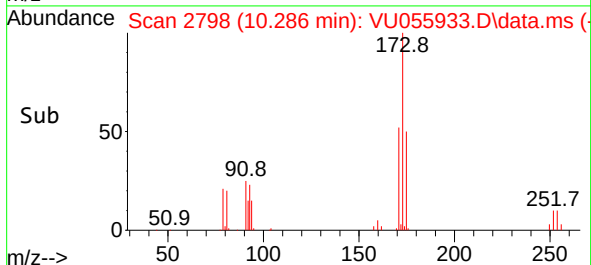
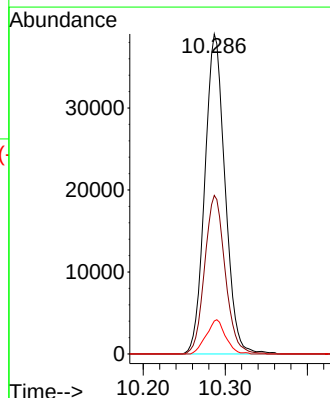
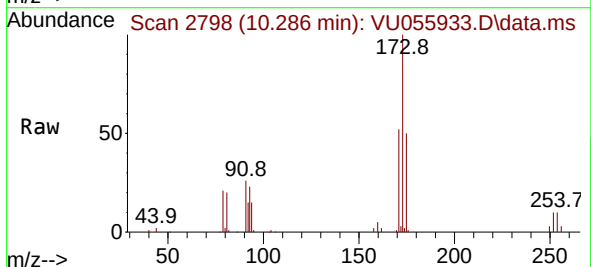
Tgt Ion: 173 Resp: 66656

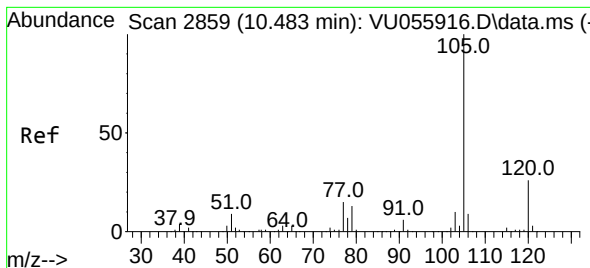
Ion Ratio Lower Upper

173 100

175 50.3 37.8 56.6

254 10.3 7.4 11.0





#60

Isopropylbenzene

Concen: 6.739 ug/L

RT: 10.479 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

A49A1MS

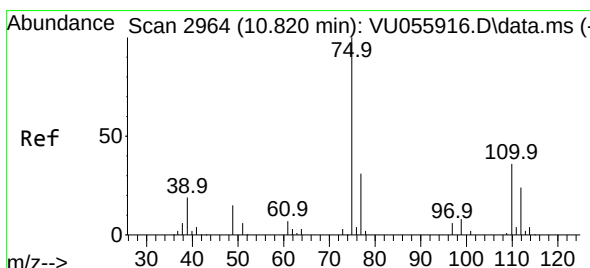
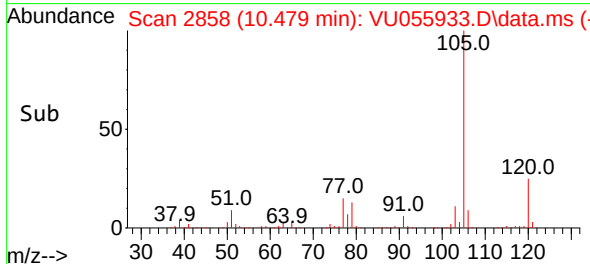
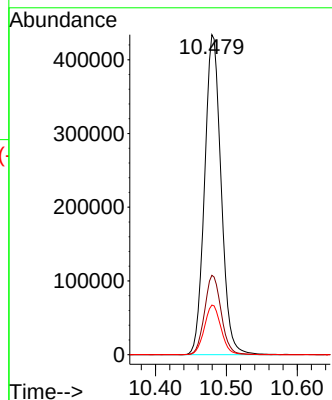
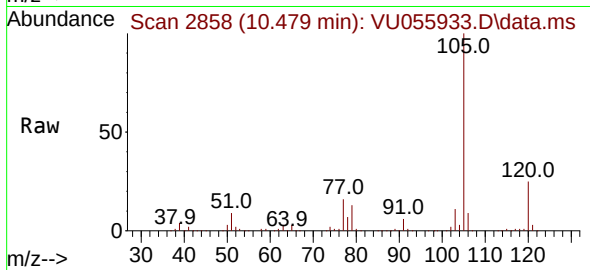
Tgt Ion:105 Resp: 700852

Ion Ratio Lower Upper

105 100

120 25.0 20.2 30.4

77 15.7 13.0 19.4



#61

1,2,3-Trichloropropane

Concen: 5.980 ug/L

RT: 10.817 min Scan# 2963

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

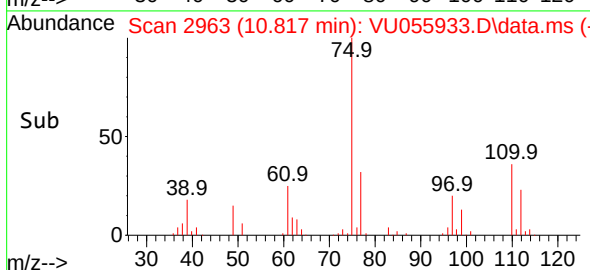
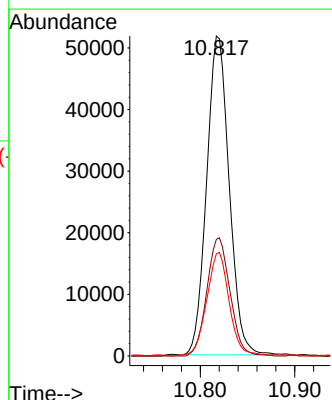
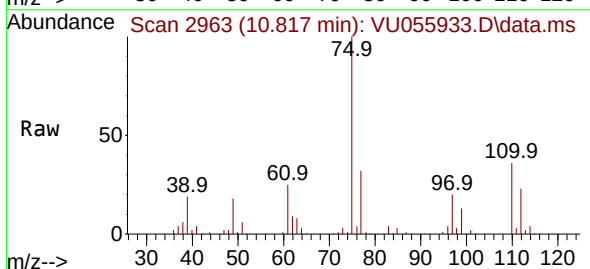
Tgt Ion: 75 Resp: 85693

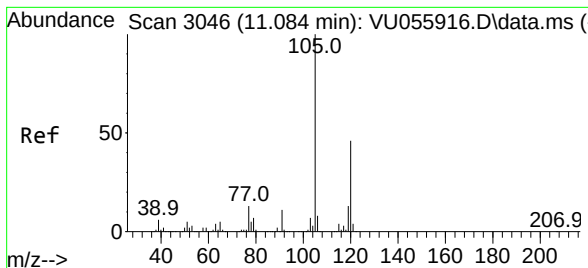
Ion Ratio Lower Upper

75 100

110 38.0 29.0 43.6

77 32.5 24.5 36.7

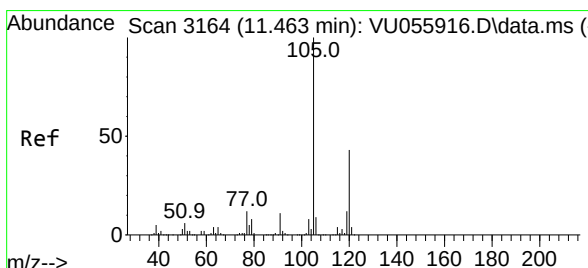
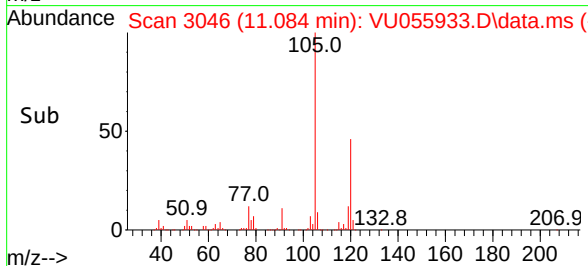
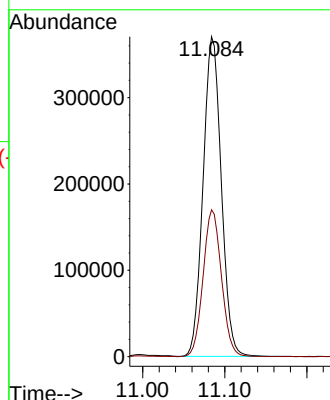
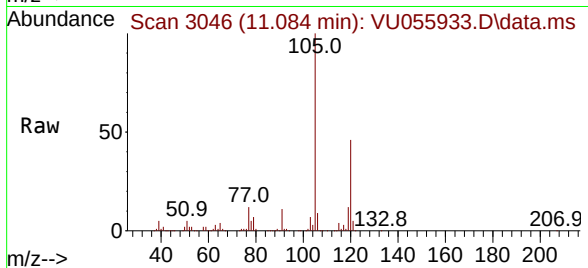




#62  
 1,3,5-Trimethylbenzene  
 Concen: 6.712 ug/L  
 RT: 11.084 min Scan# 3046  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

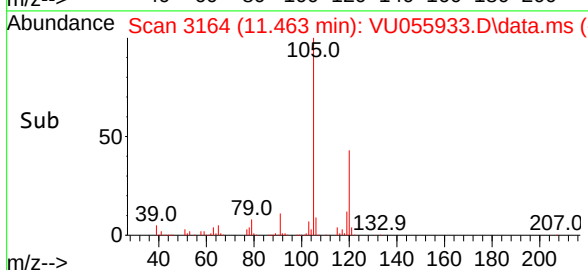
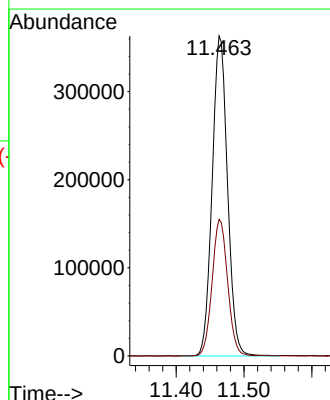
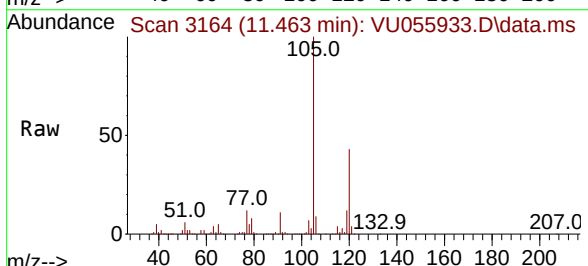
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A49A1MS

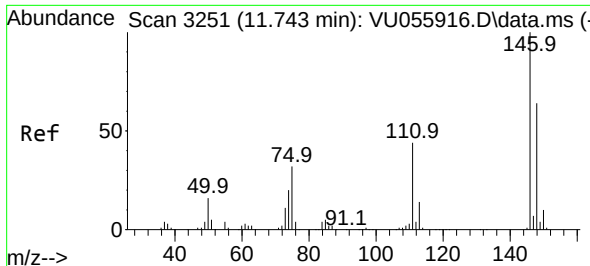
Tgt Ion:105 Resp: 570448  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 37.4 56.2



#63  
 1,2,4-Trimethylbenzene  
 Concen: 7.232 ug/L  
 RT: 11.463 min Scan# 3164  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

Tgt Ion:105 Resp: 571039  
 Ion Ratio Lower Upper  
 105 100  
 120 43.1 34.6 52.0

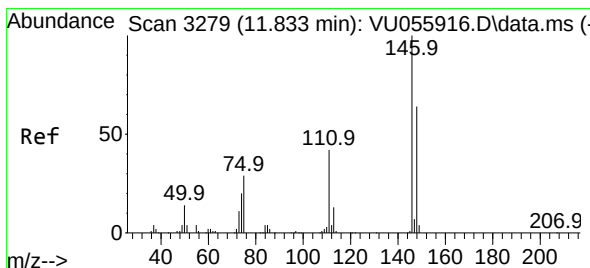
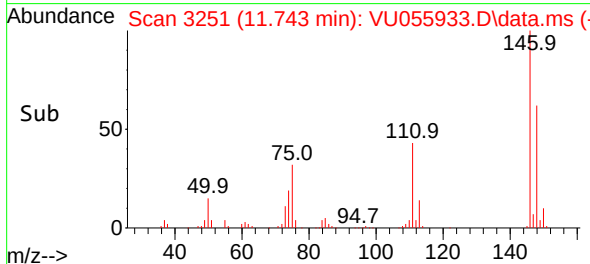
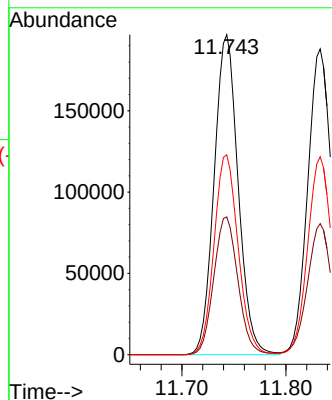
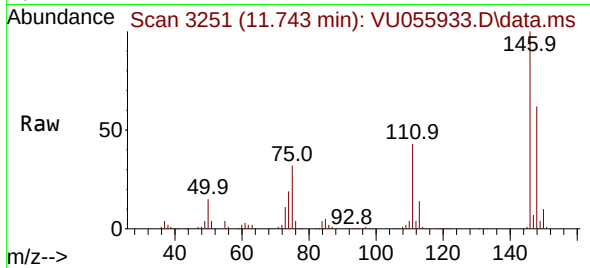




#64  
 1,3-Dichlorobenzene  
 Concen: 6.412 ug/L  
 RT: 11.743 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

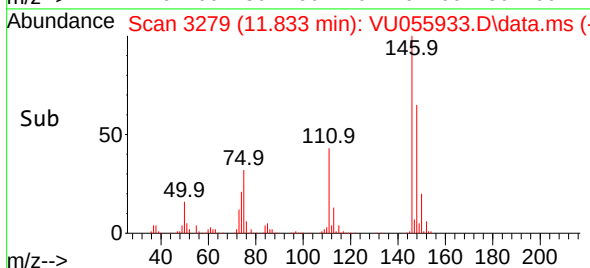
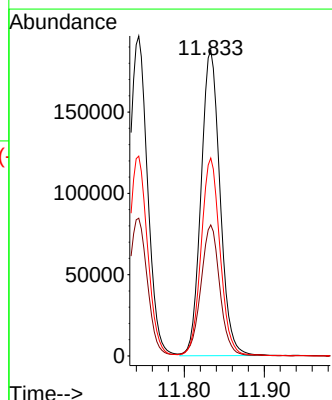
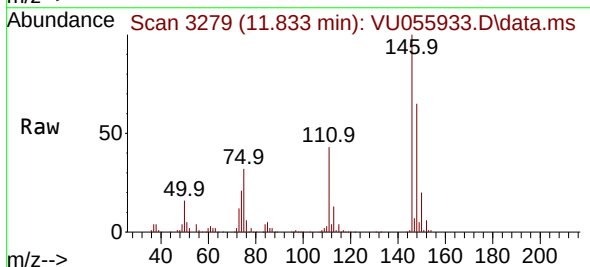
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A49A1MS

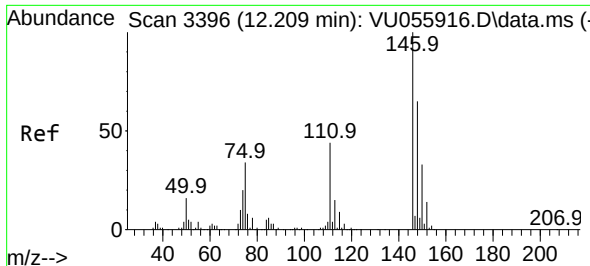
Tgt Ion:146 Resp: 316141  
 Ion Ratio Lower Upper  
 146 100  
 111 43.0 31.1 57.9  
 148 62.4 44.8 83.2



#65  
 1,4-Dichlorobenzene  
 Concen: 6.319 ug/L  
 RT: 11.833 min Scan# 3279  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

Tgt Ion:146 Resp: 310922  
 Ion Ratio Lower Upper  
 146 100  
 111 42.8 29.3 54.3  
 148 64.8 45.6 84.8





#67

1,2-Dichlorobenzene

Concen: 6.434 ug/L

RT: 12.209 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

Instrument :

MSVOA\_U

ClientSampleId :

A49A1MS

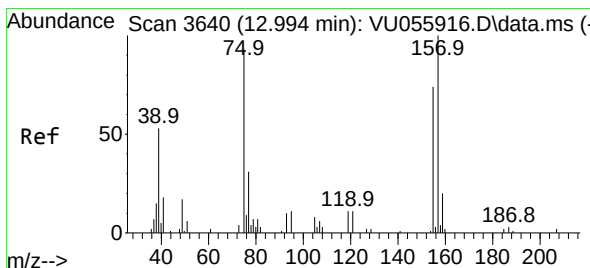
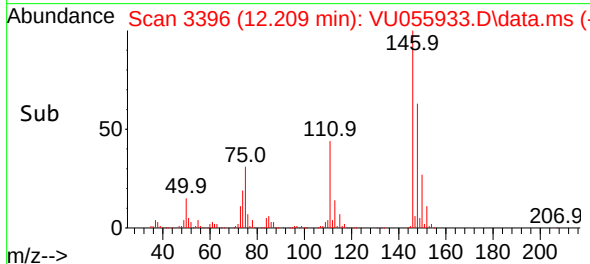
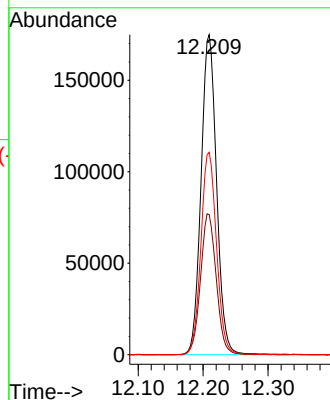
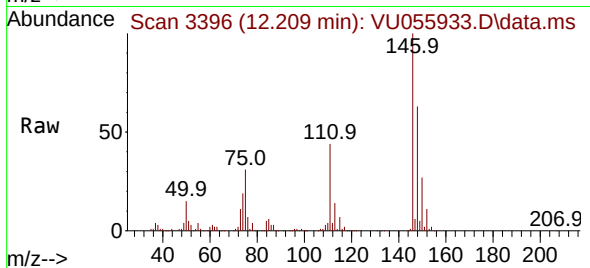
Tgt Ion:146 Resp: 291257

Ion Ratio Lower Upper

146 100

111 43.8 36.7 55.1

148 63.2 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 7.353 ug/L

RT: 12.994 min Scan# 3640

Delta R.T. -0.000 min

Lab File: VU055933.D

Acq: 27 Oct 2023 19:08

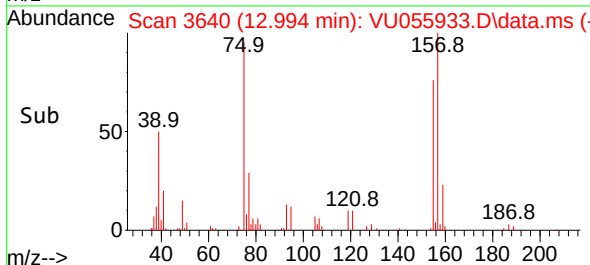
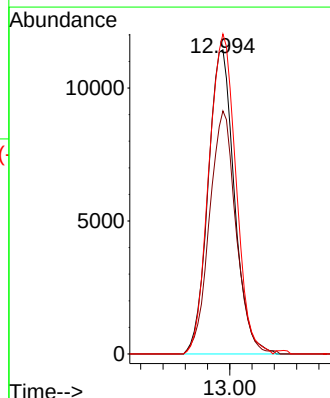
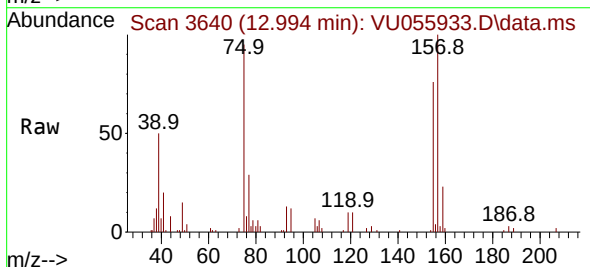
Tgt Ion: 75 Resp: 18800

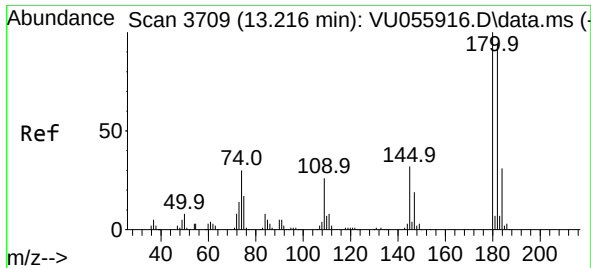
Ion Ratio Lower Upper

75 100

155 79.9 65.3 97.9

157 105.2 87.9 131.9

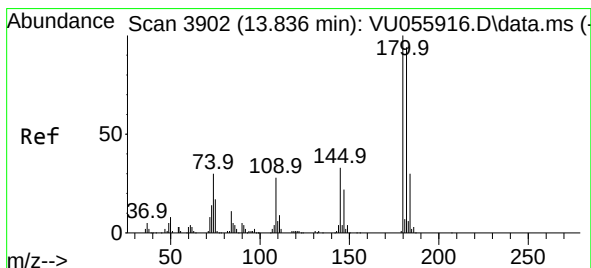
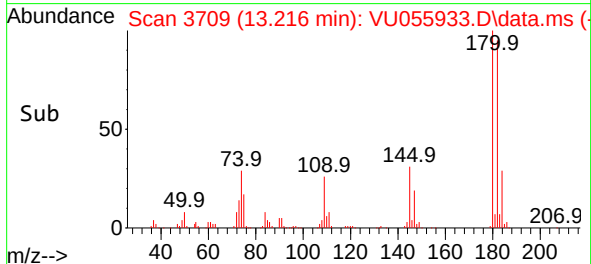
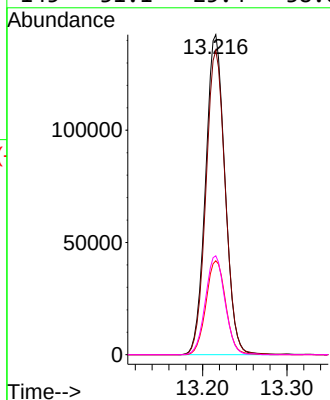
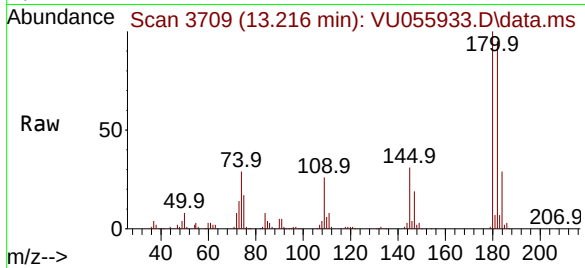




#69  
 1,3,5-Trichlorobenzene  
 Concen: 6.763 ug/L  
 RT: 13.216 min Scan# 3709  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

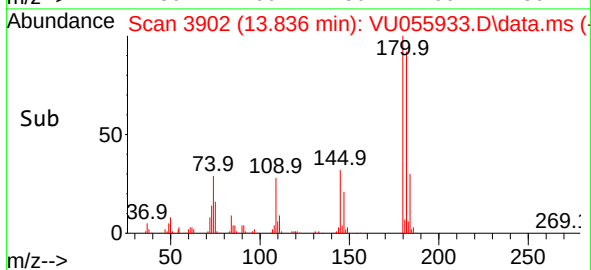
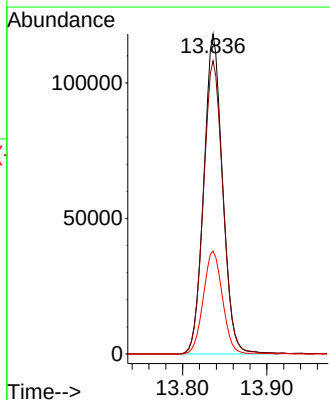
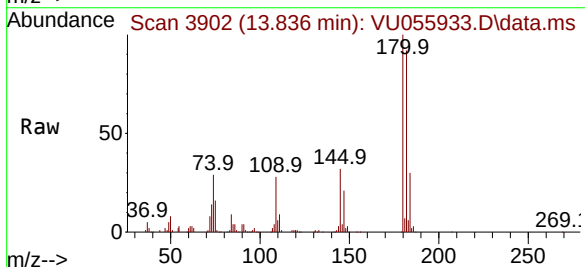
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A49A1MS

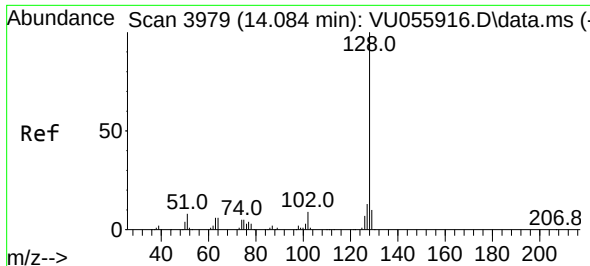
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 227837 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.0  | 74.7  | 112.1  |
| 184      | 29.9  | 23.8  | 35.8   |
| 145      | 31.1  | 25.4  | 38.0   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 7.364 ug/L  
 RT: 13.836 min Scan# 3902  
 Delta R.T. -0.000 min  
 Lab File: VU055933.D  
 Acq: 27 Oct 2023 19:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 183370 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.0  | 76.1  | 114.1  |
| 145      | 32.6  | 26.4  | 39.6   |

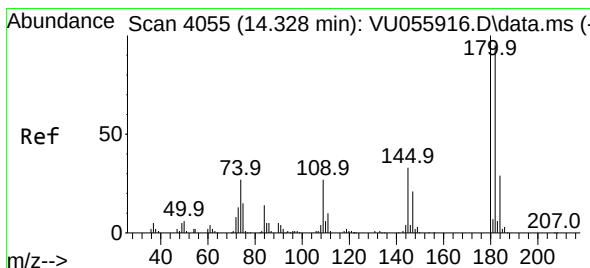
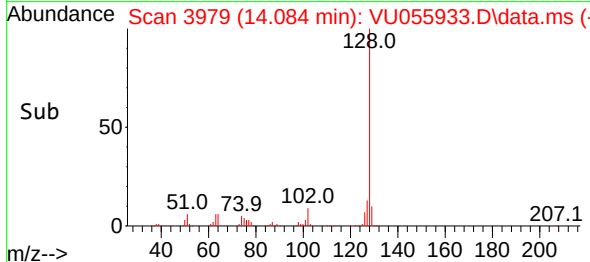
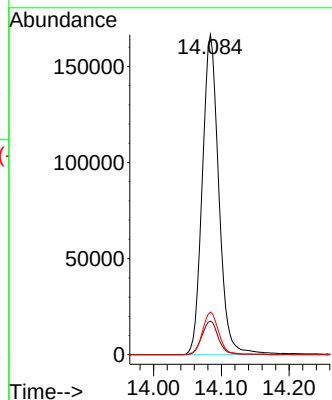
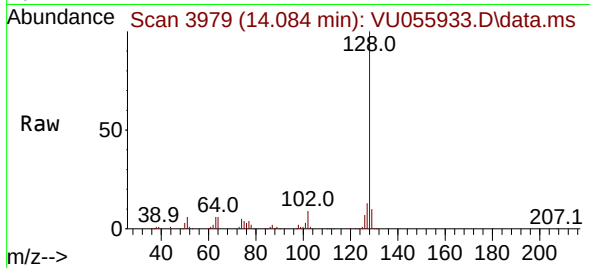




#71  
Naphthalene  
Concen: 7.819 ug/L  
RT: 14.084 min Scan# 3979  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Instrument :  
MSVOA\_U  
ClientSampleId :  
A49A1MS

Tgt Ion:128 Resp: 281941  
Ion Ratio Lower Upper  
128 100  
129 10.5 8.3 12.5  
127 13.0 10.0 15.0



#72  
1,2,3-Trichlorobenzene  
Concen: 7.494 ug/L  
RT: 14.325 min Scan# 4054  
Delta R.T. -0.000 min  
Lab File: VU055933.D  
Acq: 27 Oct 2023 19:08

Tgt Ion:180 Resp: 160897  
Ion Ratio Lower Upper  
180 100  
182 93.0 74.6 112.0  
145 33.7 27.4 41.2

