

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U090822\  
 Data File : VU050696.D  
 Acq On : 08 Sep 2022 19:39  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 08 22:58:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM090222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 08 22:51:50 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 299848   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 307145   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 149580   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 73111    | 28.507   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 57.020%# |
| 7) Chloroethane-d5            | 1.903   | 69    | 65987    | 38.048   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 76.100%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 159865   | 35.274   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 70.540%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 195892   | 104.400  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 104.400% |
| 24) Chloroform-d              | 5.063   | 84    | 223053   | 45.889   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.780%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 144891   | 48.781   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.560%  |
| 32) Benzene-d6                | 5.726   | 84    | 411015   | 40.493   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 80.980%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 140211   | 42.074   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 84.140%  |
| 41) Toluene-d8                | 7.896   | 98    | 364332   | 41.974   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 83.940%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 63707    | 46.203   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.400%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 105053   | 125.325  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 125.320% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 240058   | 47.602   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 150607   | 43.011   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 86.020%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 102632   | 35.635   | ug/L   | 100      |
| 3) Chloromethane              | 1.520   | 50    | 131167   | 42.150   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.604   | 62    | 105531   | 35.994   | ug/L   | 97       |
| 6) Bromomethane               | 1.842   | 94    | 59944    | 40.540   | ug/L   | 97       |
| 8) Chloroethane               | 1.925   | 64    | 62758    | 40.300   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.134   | 101   | 142751   | 39.962   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 86374    | 36.860   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 91949    | 40.384   | ug/L   | 89       |
| 13) Acetone                   | 2.623   | 43    | 132307   | 93.475   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.790   | 76    | 259042   | 38.367   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.945   | 43    | 144260   | 48.192   | ug/L   | 97       |
| 16) Methylene chloride        | 3.041   | 84    | 141538   | 47.367   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 104552   | 43.304   | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 377562   | 50.436   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.867   | 63    | 214798   | 46.113   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 130187   | 47.790   | ug/L   | 97       |
| 22) 2-Butanone                | 4.700   | 43    | 210674   | 95.164   | ug/L   | 95       |
| 23) Bromochloromethane        | 4.973   | 128   | 73938    | 52.525   | ug/L   | 92       |
| 25) Chloroform                | 5.086   | 83    | 239264   | 50.416   | ug/L   | 97       |

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 ClientSampleId :

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 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

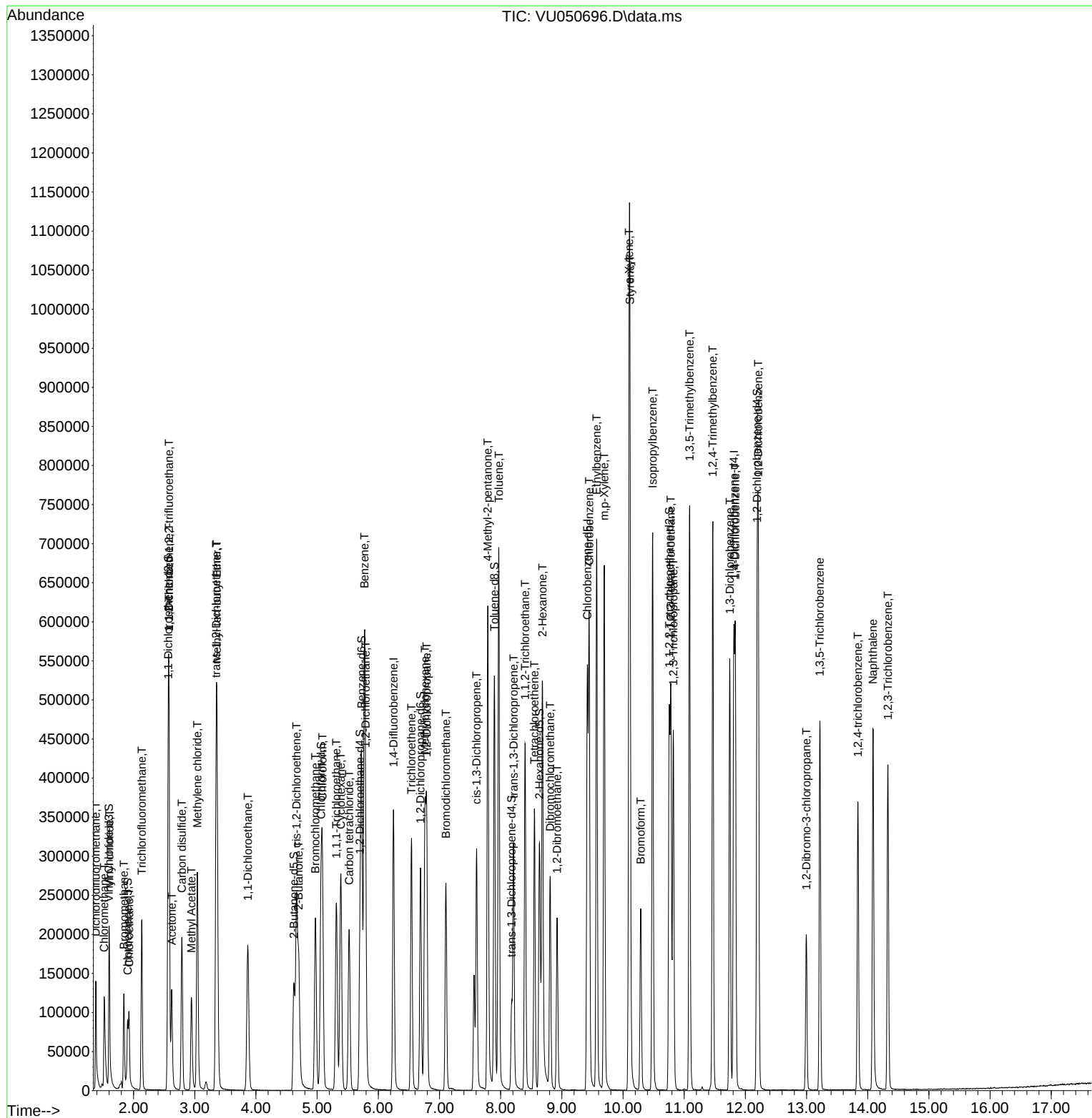
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 183296   | 52.111 | ug/L  | 99       |
| 29) Cyclohexane               | 5.388  | 56   | 133203   | 32.383 | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 181759   | 43.936 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 146003   | 43.076 | ug/L  | 99       |
| 33) Benzene                   | 5.774  | 78   | 513201   | 45.912 | ug/L  | 100      |
| 34) Trichloroethene           | 6.543  | 95   | 113995   | 43.768 | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.764  | 83   | 134833   | 32.563 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 134831   | 45.666 | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.105  | 83   | 177246   | 51.033 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 191621   | 47.947 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 382584   | 95.087 | ug/L  | 98       |
| 42) Toluene                   | 7.970  | 91   | 516458   | 45.486 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 186993   | 49.869 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 143189   | 50.484 | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.552  | 164  | 79913    | 42.008 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.684  | 43   | 310018   | 82.562 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.809  | 129  | 140661   | 51.995 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 149793   | 51.931 | ug/L  | 95       |
| 51) Chlorobenzene             | 9.446  | 112  | 331904   | 47.100 | ug/L  | 97       |
| 52) Ethylbenzene              | 9.568  | 91   | 507485   | 45.244 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.694  | 106  | 198005   | 46.076 | ug/L  | 96       |
| 54) o-Xylene                  | 10.099 | 106  | 205906   | 48.127 | ug/L  | 98       |
| 55) Styrene                   | 10.115 | 104  | 355721   | 50.532 | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 251979   | 49.876 | ug/L  | 99       |
| 59) Bromoform                 | 10.288 | 173  | 109022   | 48.851 | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 199875   | 45.542 | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.484 | 105  | 468802   | 39.595 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 407319   | 40.240 | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 404999   | 41.666 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 230847   | 44.311 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 224388   | 43.575 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 250853   | 45.211 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 52189    | 45.030 | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 148675   | 39.325 | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 118215   | 36.823 | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 399871   | 35.131 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 133142   | 38.298 | ug/L  | 100      |

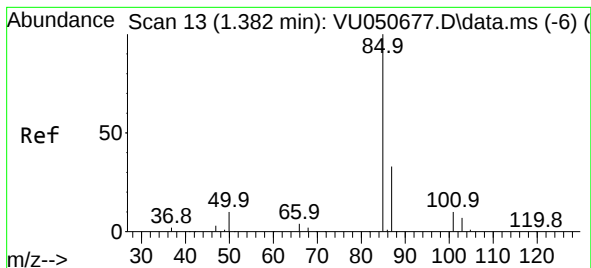
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#2

Dichlorodifluoromethane

Concen: 35.635 ug/L

RT: 1.382 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

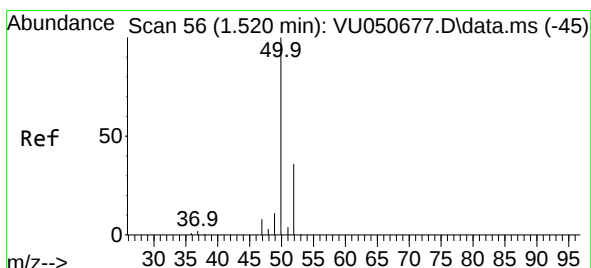
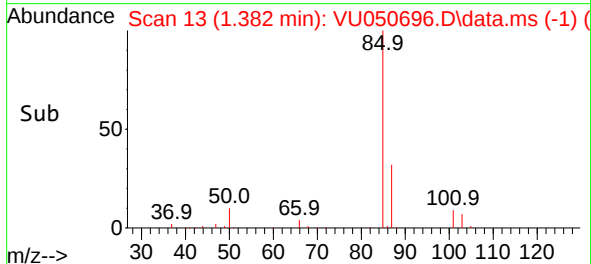
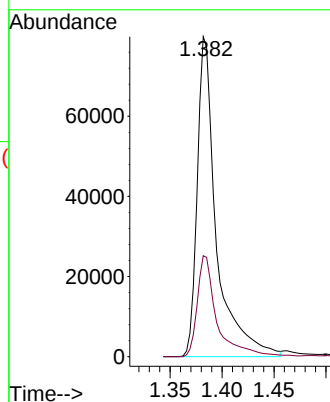
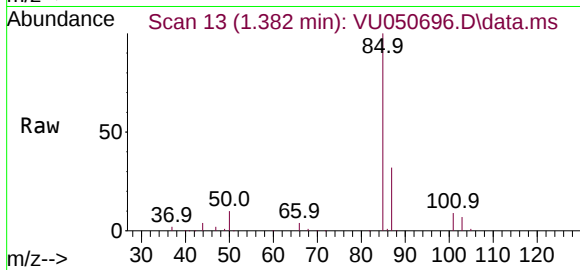
ClientSampleId :

Tgt Ion: 85 Resp: 102632

Ion Ratio Lower Upper

85 100

87 32.3 25.8 38.8



#3

Chloromethane

Concen: 42.150 ug/L

RT: 1.520 min Scan# 56

Delta R.T. 0.000 min

Lab File: VU050696.D

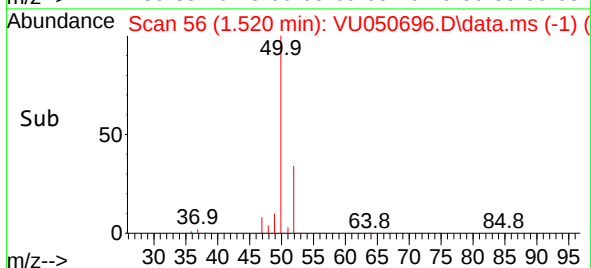
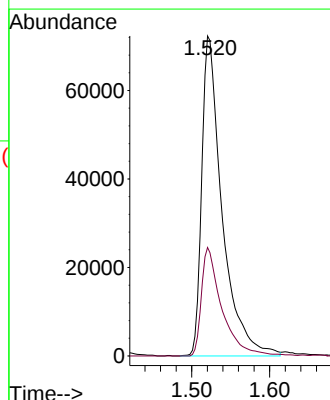
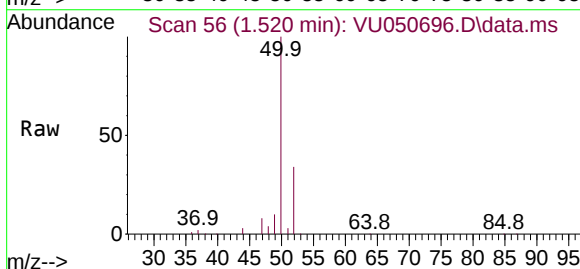
Acq: 08 Sep 2022 19:39

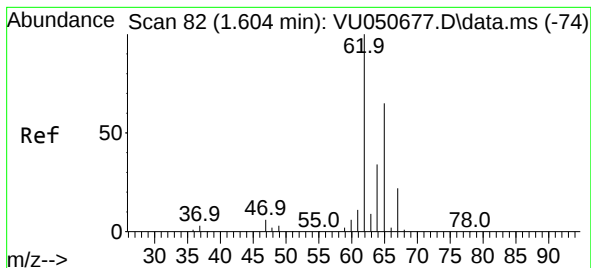
Tgt Ion: 50 Resp: 131167

Ion Ratio Lower Upper

50 100

52 33.9 23.7 43.9





#5

Vinyl chloride

Concen: 35.994 ug/L

RT: 1.604 min Scan# 81

Delta R.T. 0.000 min

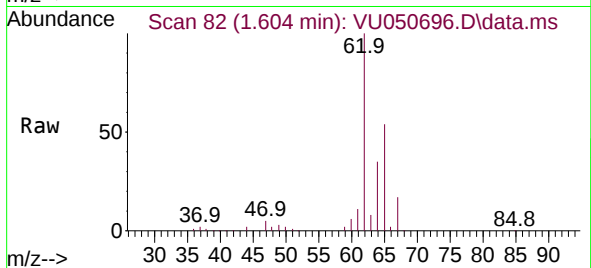
Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

ClientSampleId :

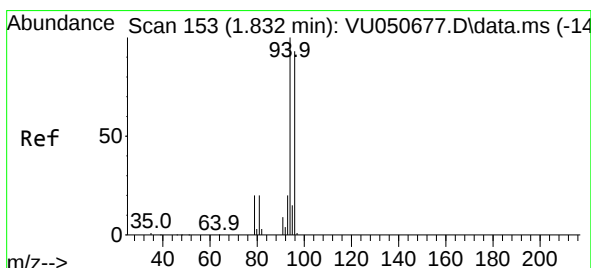
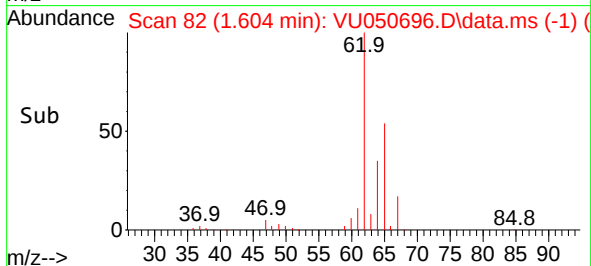
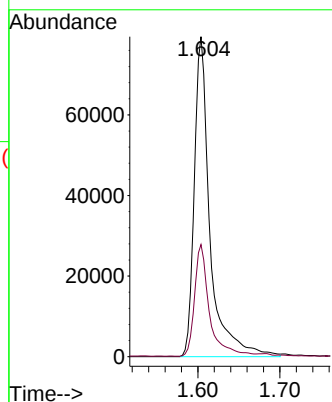


Tgt Ion: 62 Resp: 105531

Ion Ratio Lower Upper

62 100

64 35.0 23.5 43.7



#6

Bromomethane

Concen: 40.540 ug/L

RT: 1.842 min Scan# 156

Delta R.T. 0.010 min

Lab File: VU050696.D

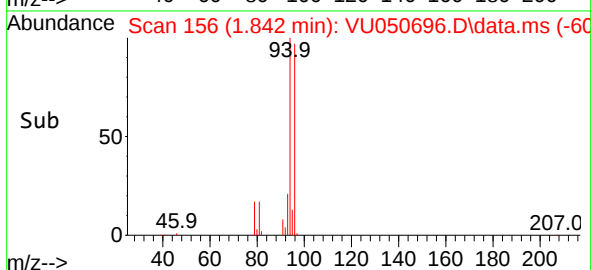
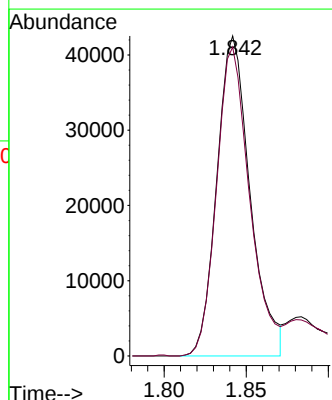
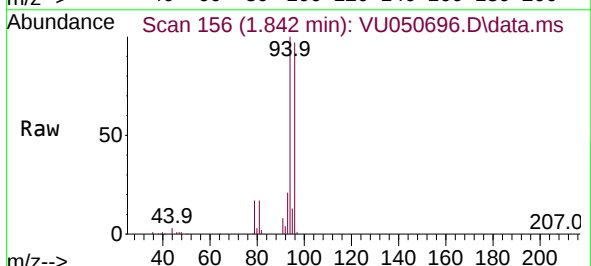
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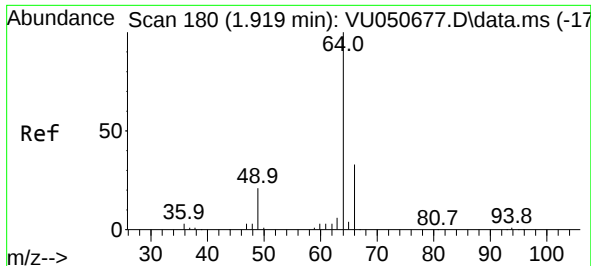
Tgt Ion: 94 Resp: 59944

Ion Ratio Lower Upper

94 100

96 96.5 65.6 121.8

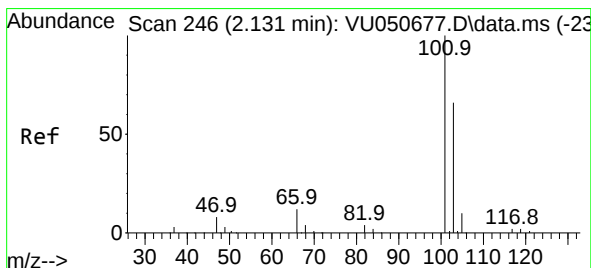
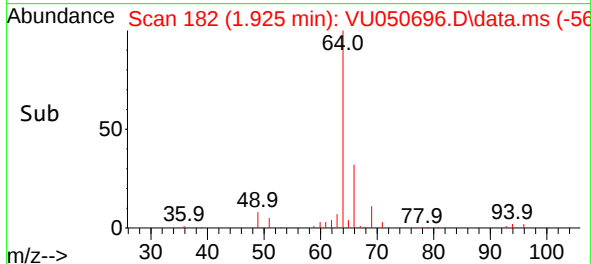
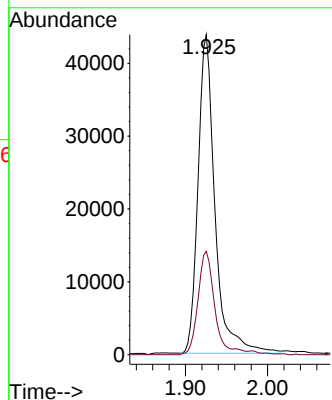
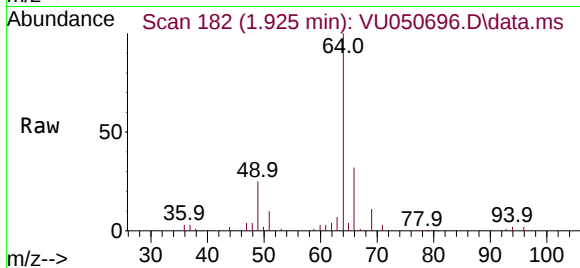




#8  
Chloroethane  
Concen: 40.300 ug/L  
RT: 1.925 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

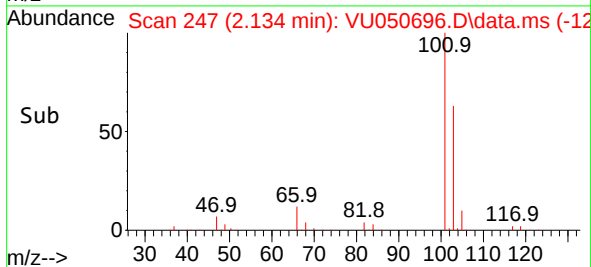
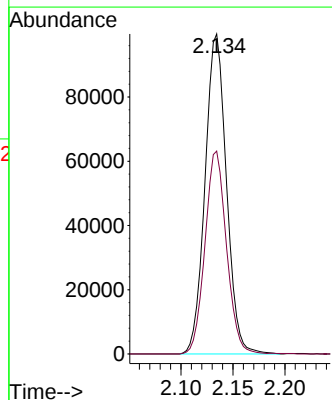
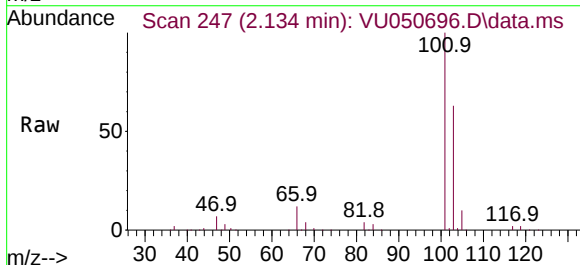
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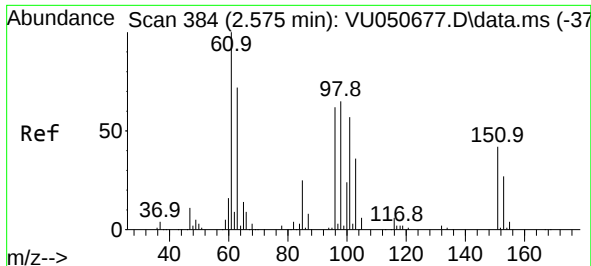
Tgt Ion: 64 Resp: 62758  
Ion Ratio Lower Upper  
64 100  
66 32.3 21.9 40.7



#9  
Trichlorofluoromethane  
Concen: 39.962 ug/L  
RT: 2.134 min Scan# 247  
Delta R.T. 0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion:101 Resp: 142751  
Ion Ratio Lower Upper  
101 100  
103 63.6 51.4 77.0

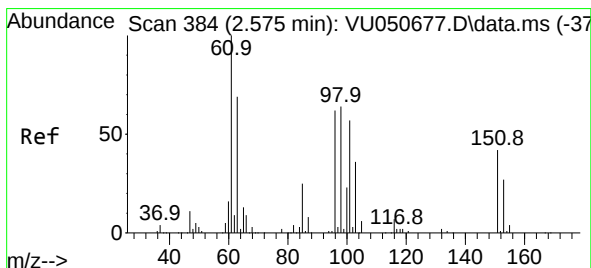
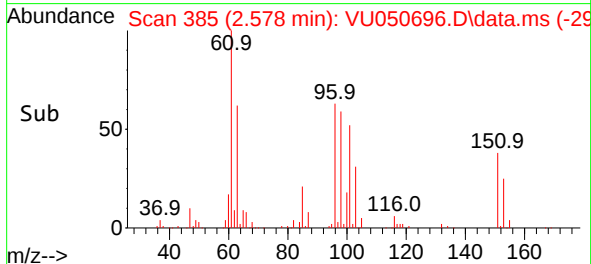
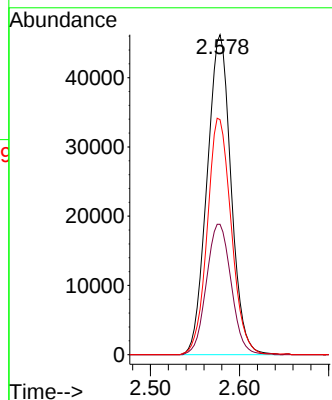
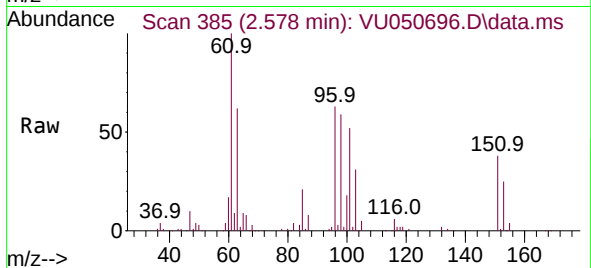




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 36.860 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. 0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

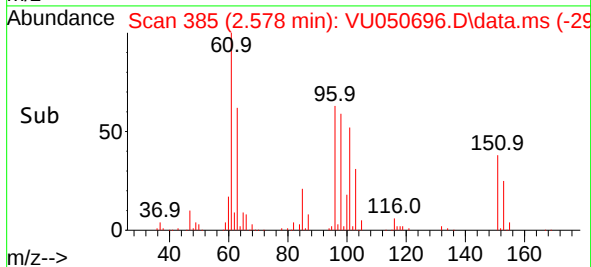
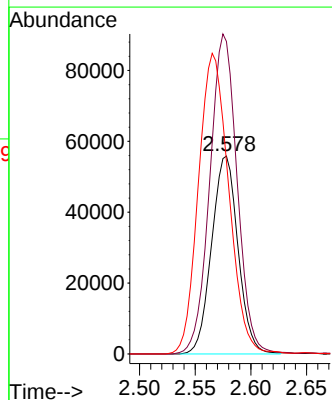
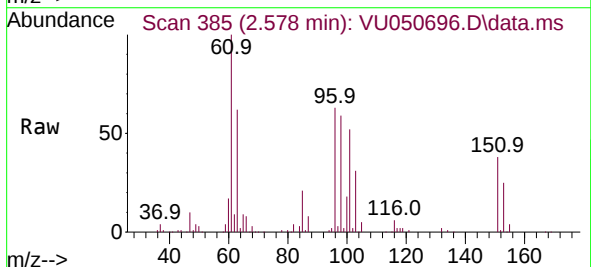
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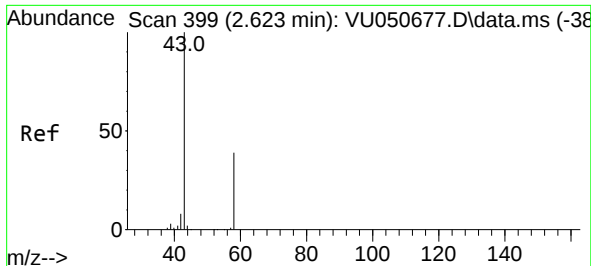
Tgt Ion:101 Resp: 86374  
Ion Ratio Lower Upper  
101 100  
85 41.9 34.4 51.6  
151 74.0 57.7 86.5



#12  
1,1-Dichloroethene  
Concen: 40.384 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. 0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion: 96 Resp: 91949  
Ion Ratio Lower Upper  
96 100  
61 157.9 118.0 219.1  
63 97.3 79.5 147.7





#13

Acetone

Concen: 93.475 ug/L

RT: 2.623 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

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MSVOA\_U

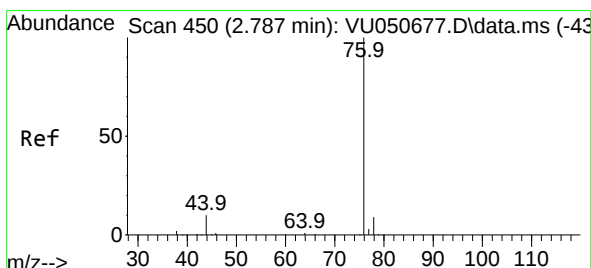
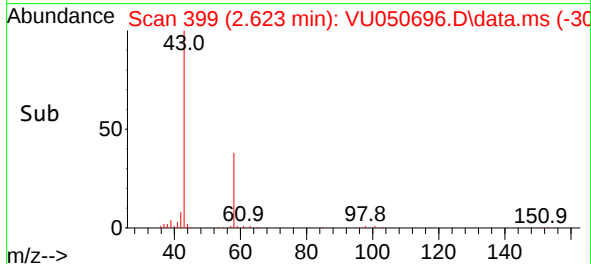
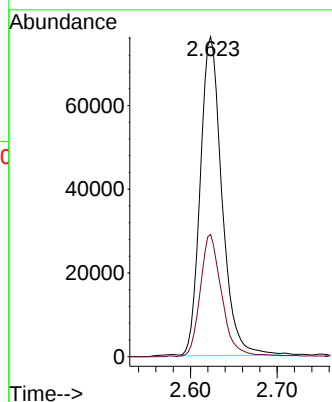
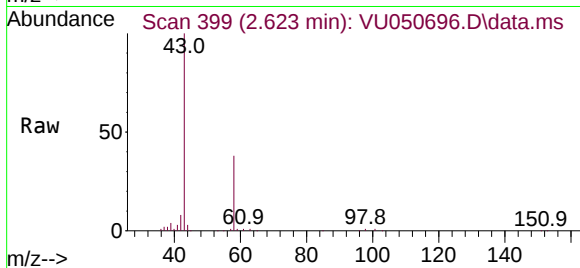
ClientSampleId :

Tgt Ion: 43 Resp: 132307

Ion Ratio Lower Upper

43 100

58 38.3 0.0 76.2



#14

Carbon disulfide

Concen: 38.367 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.003 min

Lab File: VU050696.D

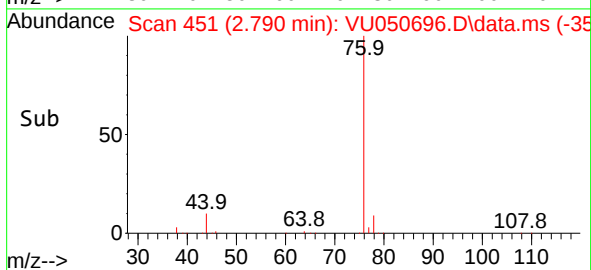
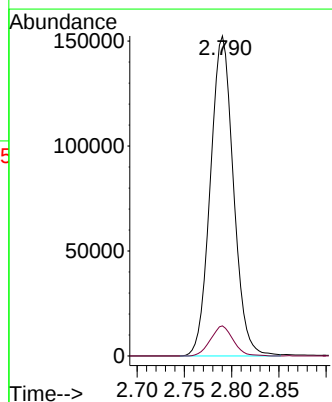
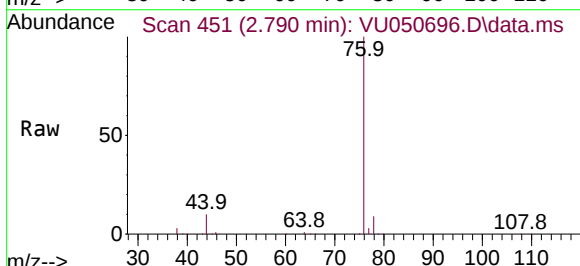
Acq: 08 Sep 2022 19:39

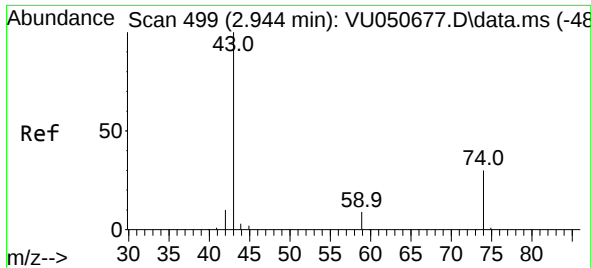
Tgt Ion: 76 Resp: 259042

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9

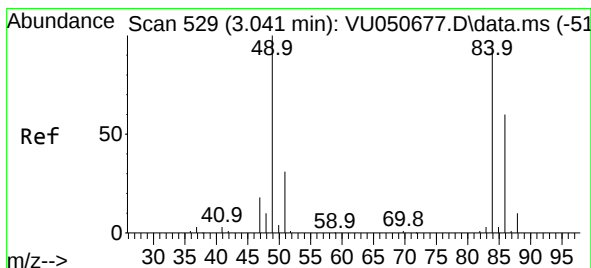
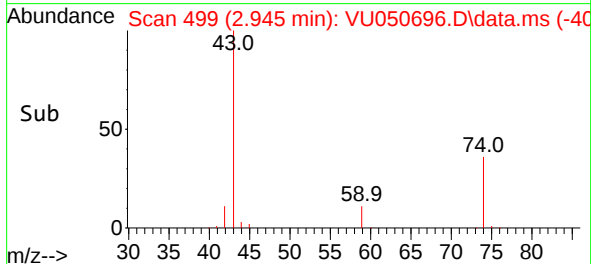
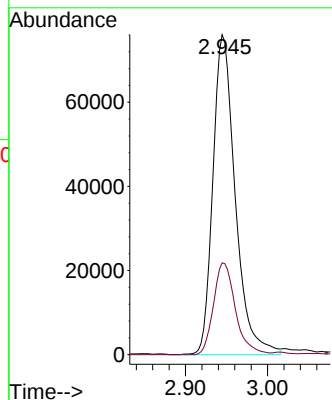
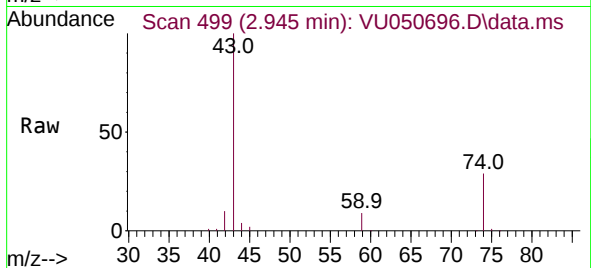




#15  
Methyl Acetate  
Concen: 48.192 ug/L  
RT: 2.945 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

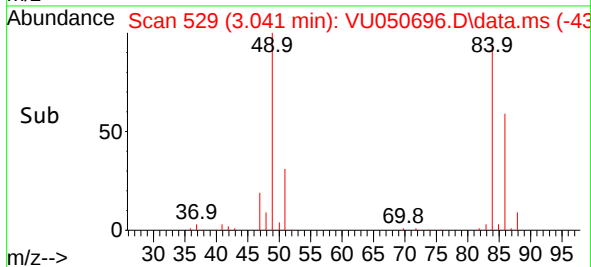
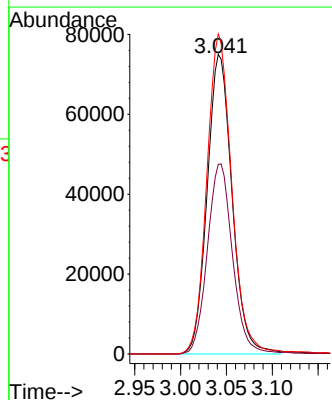
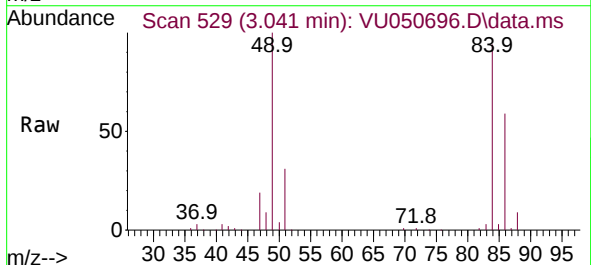
Instrument :  
MSVOA\_U  
ClientSampleId :

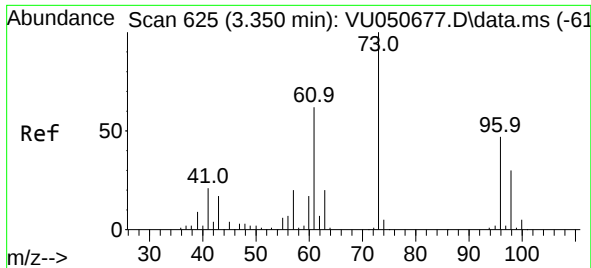
Tgt Ion: 43 Resp: 144260  
Ion Ratio Lower Upper  
43 100  
74 28.2 21.2 31.8



#16  
Methylene chloride  
Concen: 47.367 ug/L  
RT: 3.041 min Scan# 529  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

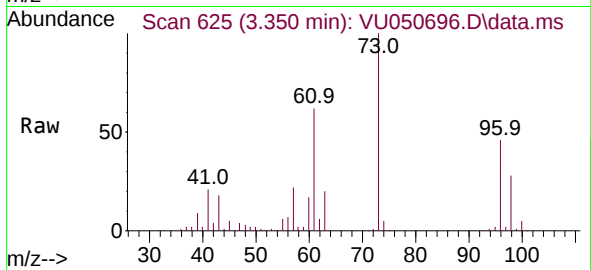
Tgt Ion: 84 Resp: 141538  
Ion Ratio Lower Upper  
84 100  
86 63.3 44.8 83.2  
49 106.8 80.6 149.8



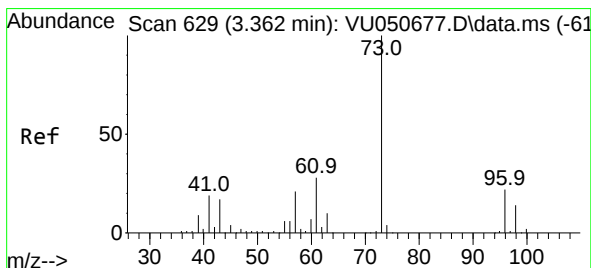
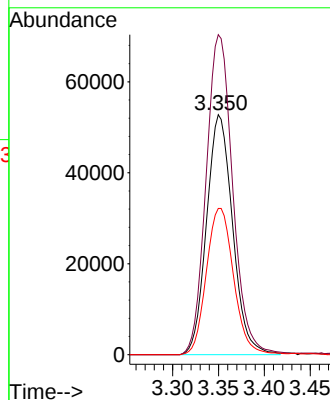
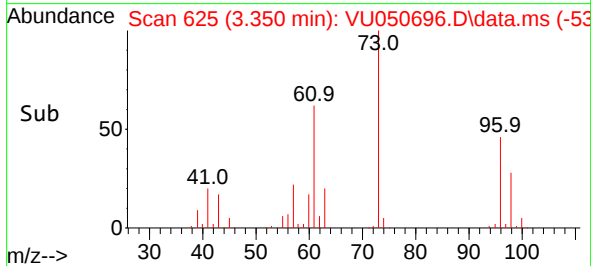


#17  
trans-1,2-Dichloroethene  
Concen: 43.304 ug/L  
RT: 3.350 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

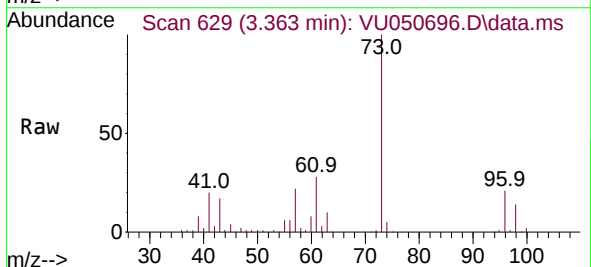
Instrument :  
MSVOA\_U  
ClientSampleId :



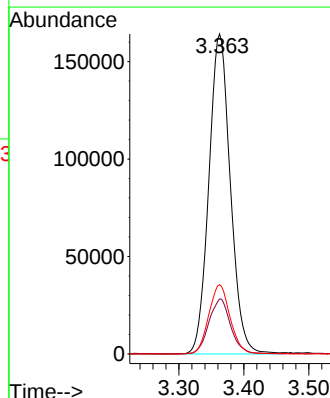
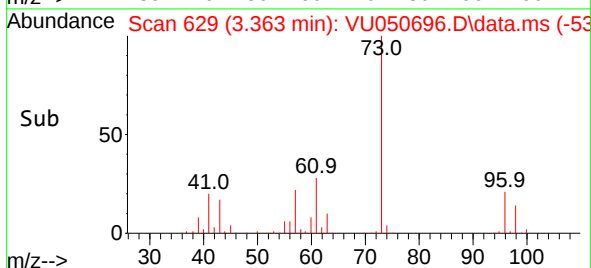
Tgt Ion: 96 Resp: 104552  
Ion Ratio Lower Upper  
96 100  
61 133.3 97.9 181.7  
98 61.0 44.8 83.2

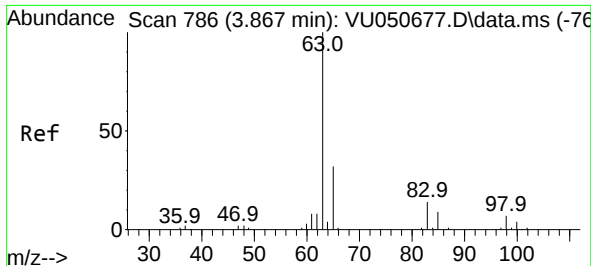


#18  
Methyl tert-butyl Ether  
Concen: 50.436 ug/L  
RT: 3.363 min Scan# 629  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39



Tgt Ion: 73 Resp: 377562  
Ion Ratio Lower Upper  
73 100  
43 17.1 13.4 20.2  
57 21.5 17.8 26.8





#19

1,1-Dichloroethane

Concen: 46.113 ug/L

RT: 3.867 min Scan# 786

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

ClientSampleId :

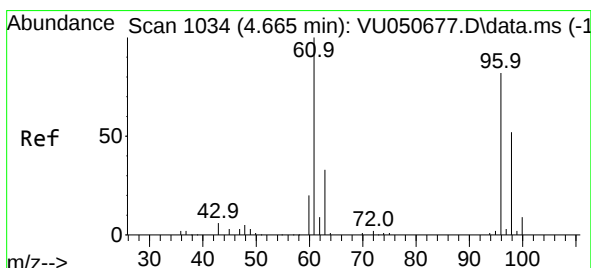
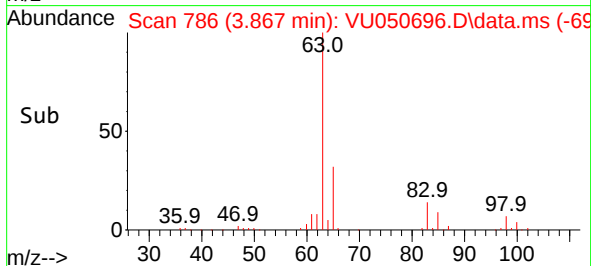
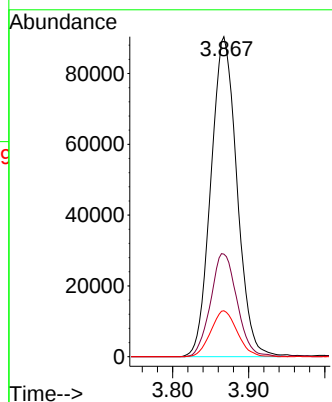
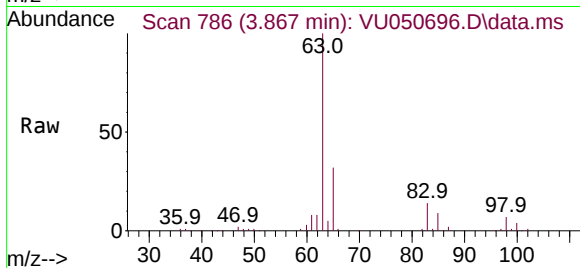
Tgt Ion: 63 Resp: 214798

Ion Ratio Lower Upper

63 100

65 32.0 22.4 41.6

83 14.4 9.5 17.7



#20

cis-1,2-Dichloroethene

Concen: 47.790 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

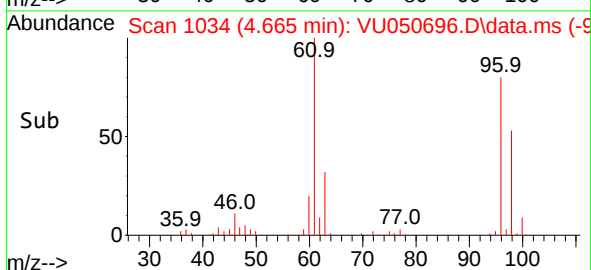
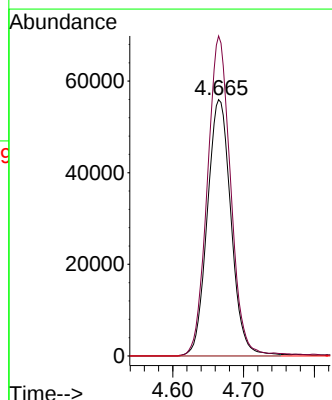
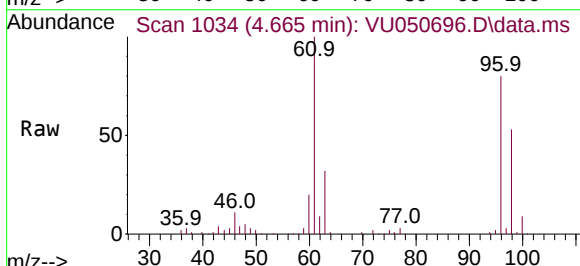
Tgt Ion: 96 Resp: 130187

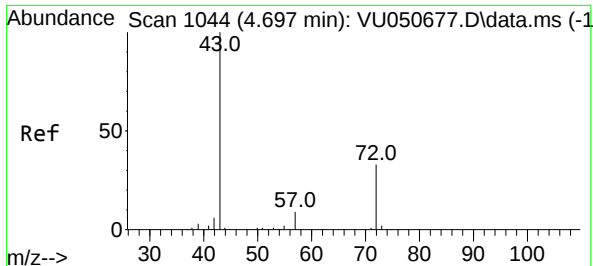
Ion Ratio Lower Upper

96 100

61 124.9 89.8 166.8

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 95.164 ug/L

RT: 4.700 min Scan# 1104

Delta R.T. 0.003 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

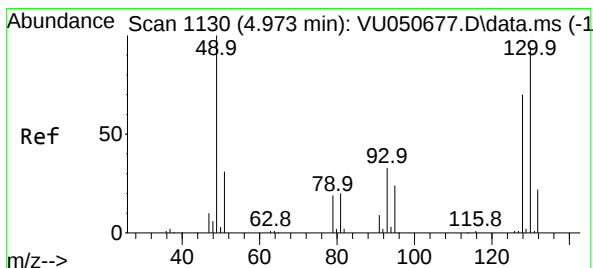
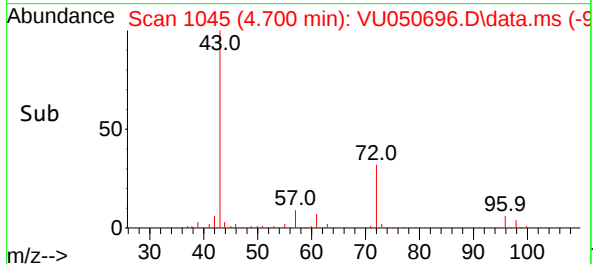
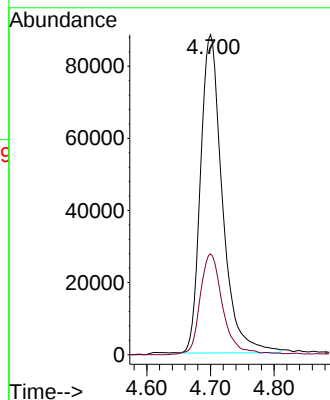
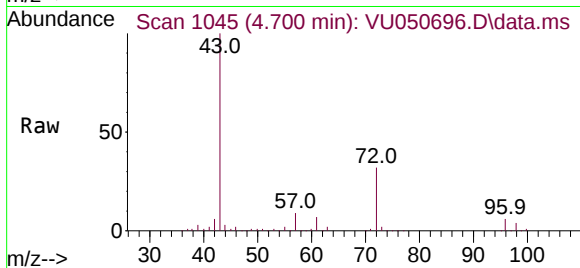
ClientSampleId :

Tgt Ion: 43 Resp: 210674

Ion Ratio Lower Upper

43 100

72 32.2 14.6 44.0



#23

Bromochloromethane

Concen: 52.525 ug/L

RT: 4.973 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Tgt Ion:128 Resp: 73938

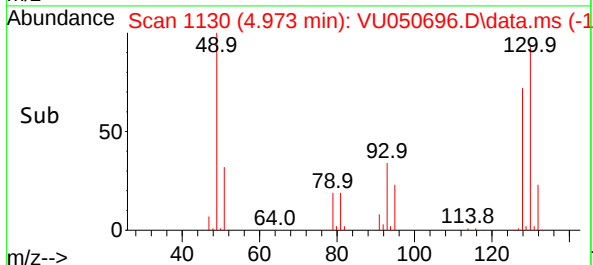
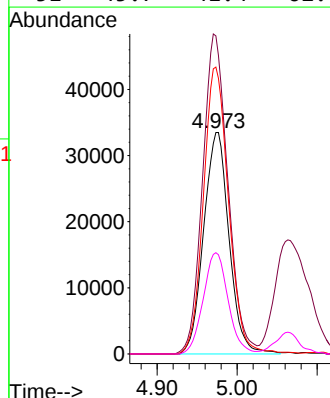
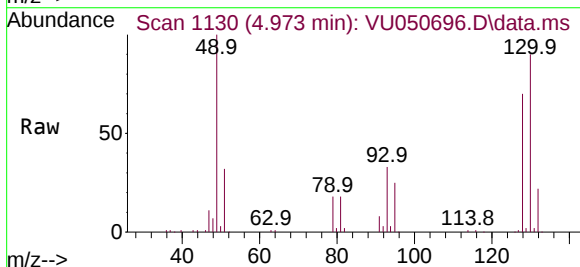
Ion Ratio Lower Upper

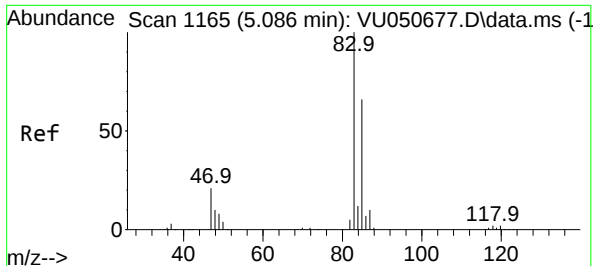
128 100

49 143.6 112.5 208.9

130 129.5 91.8 170.4

51 45.7 41.4 62.0





#25

Chloroform

Concen: 50.416 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

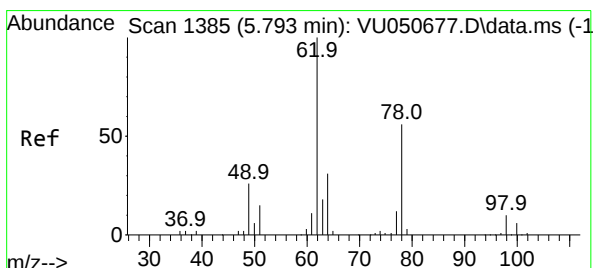
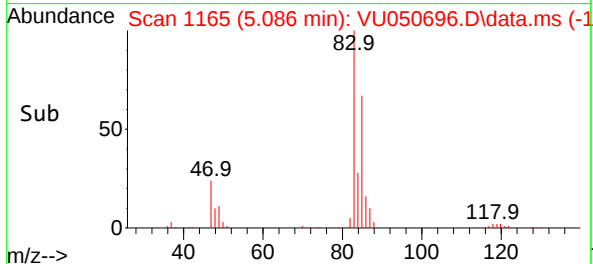
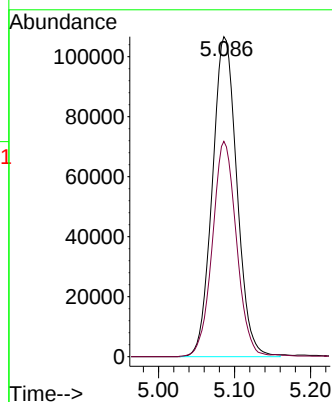
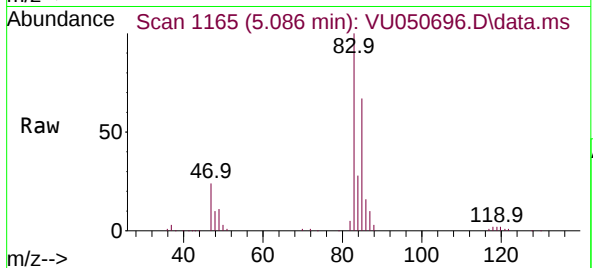
ClientSampleId :

Tgt Ion: 83 Resp: 239264

Ion Ratio Lower Upper

83 100

85 67.3 45.6 84.8



#27

1,2-Dichloroethane

Concen: 52.111 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VU050696.D

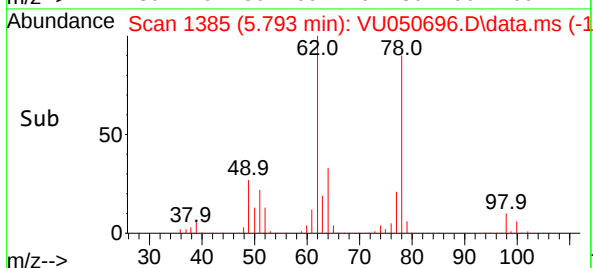
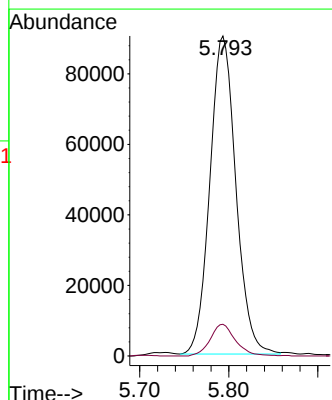
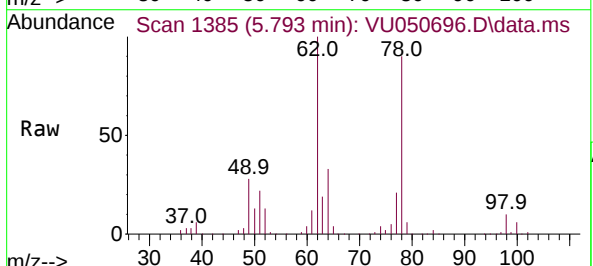
Acq: 08 Sep 2022 19:39

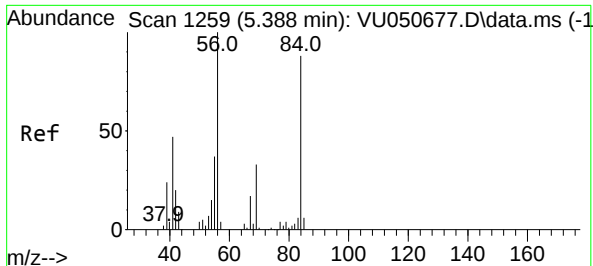
Tgt Ion: 62 Resp: 183296

Ion Ratio Lower Upper

62 100

98 9.9 8.2 12.2





#29

Cyclohexane

Concen: 32.383 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

ClientSampleId :

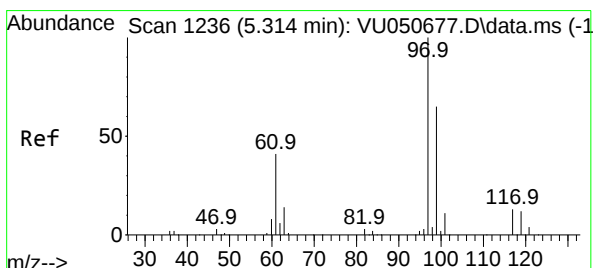
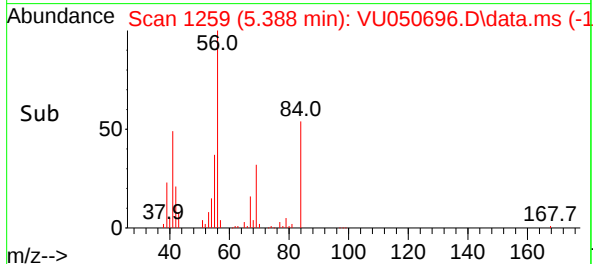
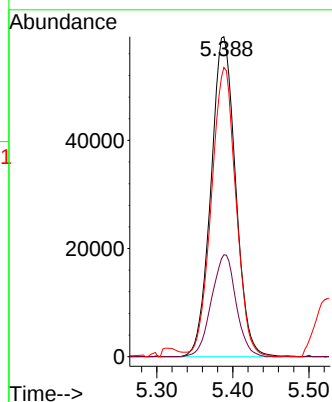
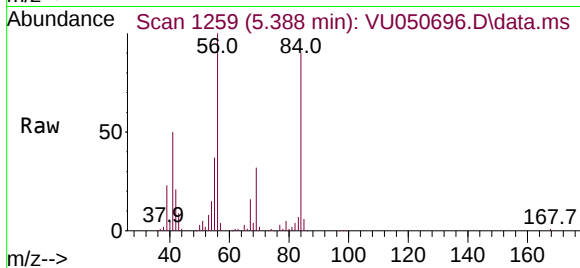
Tgt Ion: 56 Resp: 133203

Ion Ratio Lower Upper

56 100

69 31.8 24.6 37.0

84 89.1 67.4 101.2



#30

1,1,1-Trichloroethane

Concen: 43.936 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

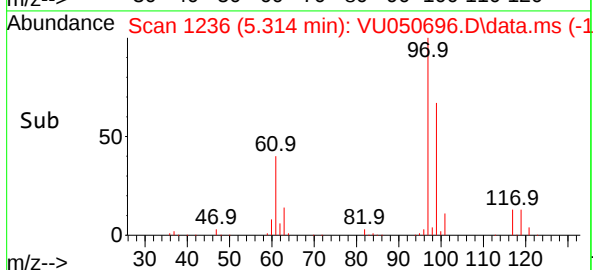
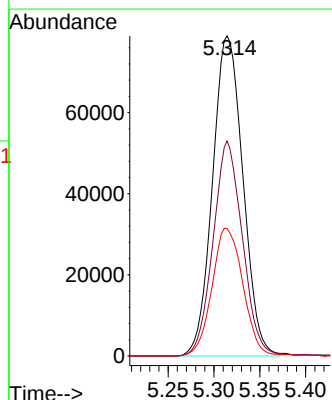
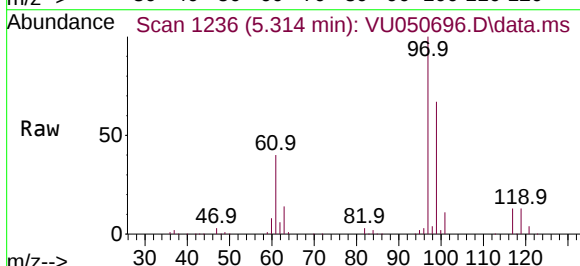
Tgt Ion: 97 Resp: 181759

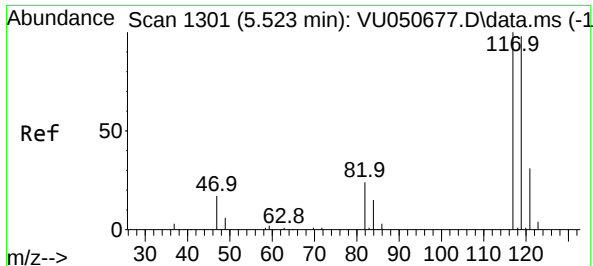
Ion Ratio Lower Upper

97 100

99 64.8 51.2 76.8

61 40.6 34.2 51.4

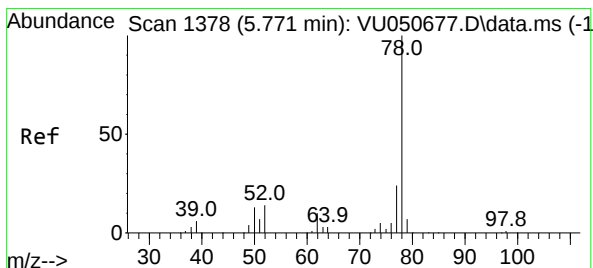
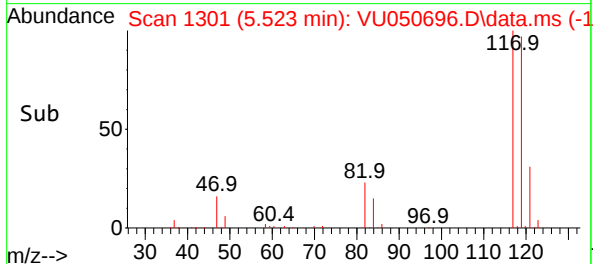
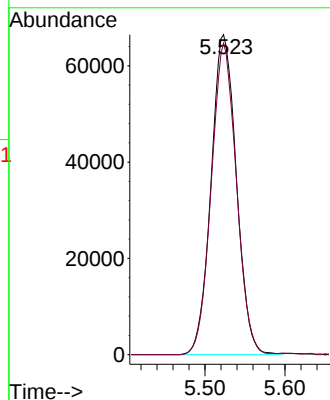
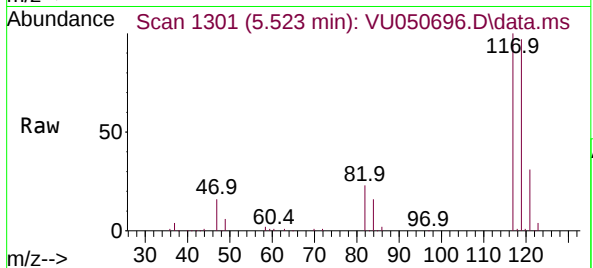




#31  
Carbon tetrachloride  
Concen: 43.076 ug/L  
RT: 5.523 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

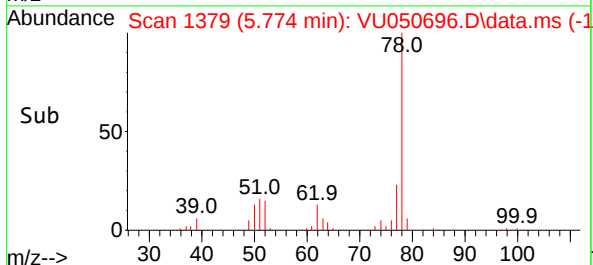
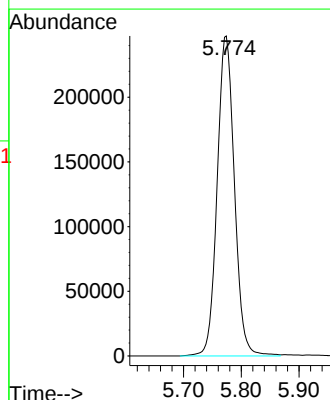
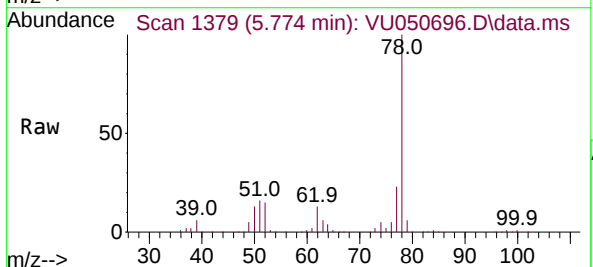
Instrument :  
MSVOA\_U  
ClientSampleId :

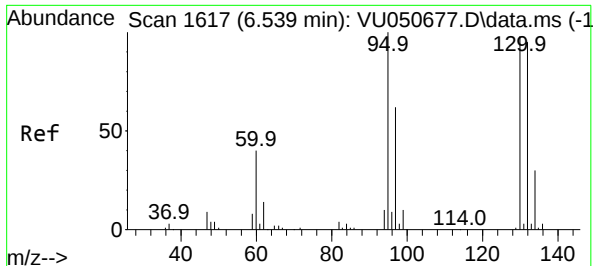
Tgt Ion:117 Resp: 146003  
Ion Ratio Lower Upper  
117 100  
119 96.2 77.4 116.2



#33  
Benzene  
Concen: 45.912 ug/L  
RT: 5.774 min Scan# 1379  
Delta R.T. 0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion: 78 Resp: 513201

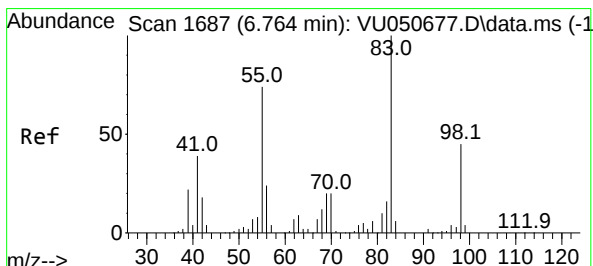
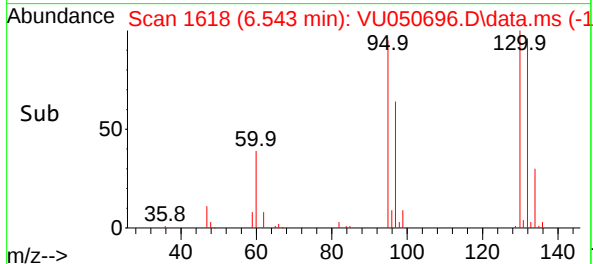
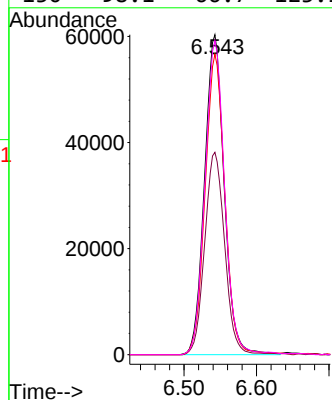
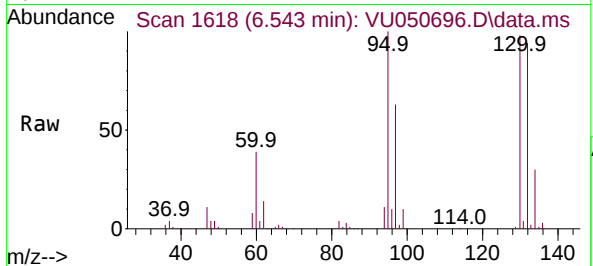




#34  
Trichloroethene  
Concen: 43.768 ug/L  
RT: 6.543 min Scan# 1617  
Delta R.T. 0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

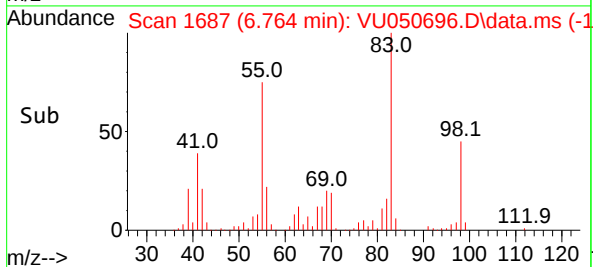
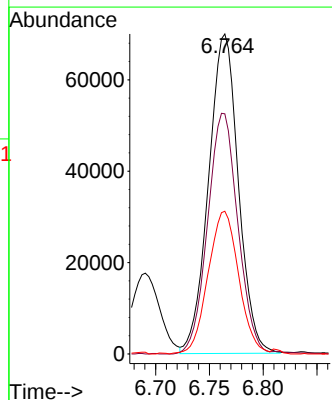
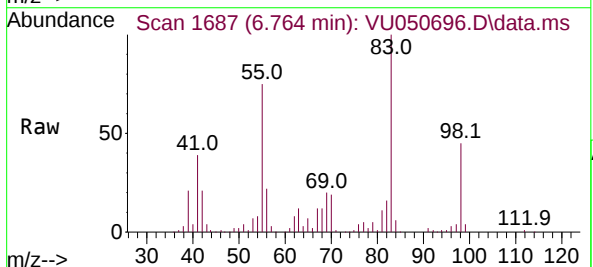
Instrument :  
MSVOA\_U  
ClientSampleId :

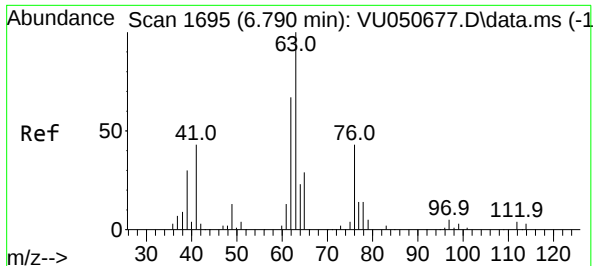
Tgt Ion: 95 Resp: 113995  
Ion Ratio Lower Upper  
95 100  
97 63.2 45.4 84.2  
132 93.9 65.2 121.2  
130 98.1 66.7 123.9



#35  
Methylcyclohexane  
Concen: 32.563 ug/L  
RT: 6.764 min Scan# 1687  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion: 83 Resp: 134833  
Ion Ratio Lower Upper  
83 100  
55 76.3 62.6 93.8  
98 45.9 35.5 53.3





#37

1,2-Dichloropropane

Concen: 45.666 ug/L

RT: 6.790 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

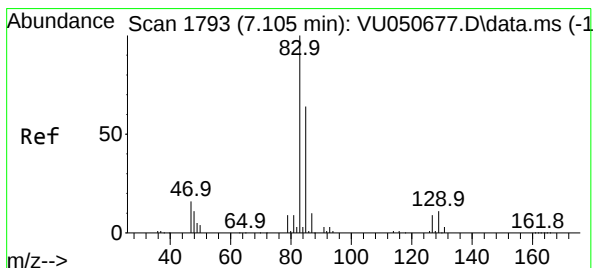
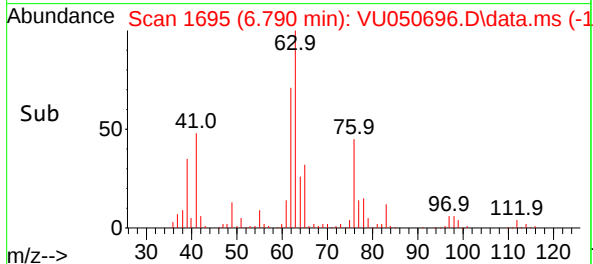
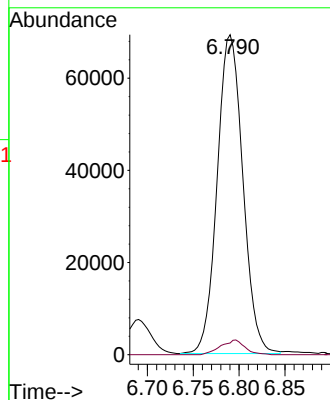
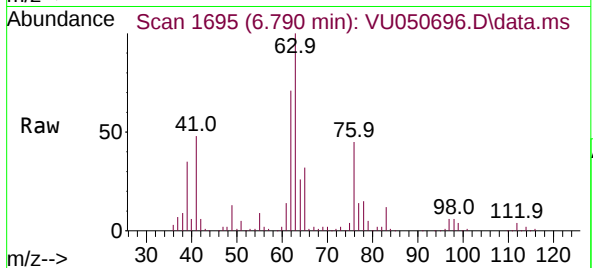
ClientSampleId :

Tgt Ion: 63 Resp: 134831

Ion Ratio Lower Upper

63 100

112 4.3 3.0 4.4



#38

Bromodichloromethane

Concen: 51.033 ug/L

RT: 7.105 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

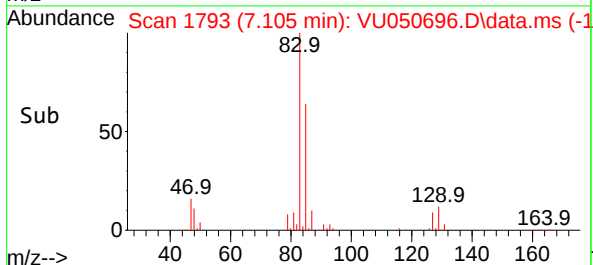
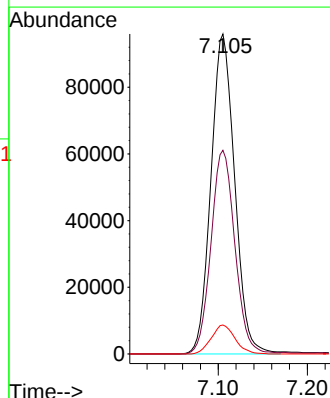
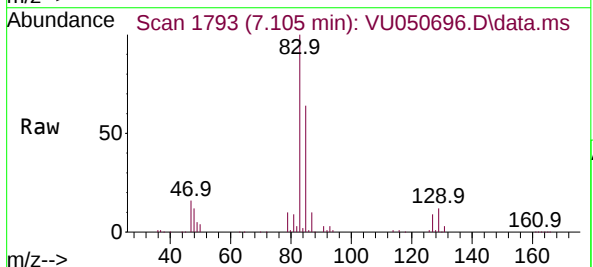
Tgt Ion: 83 Resp: 177246

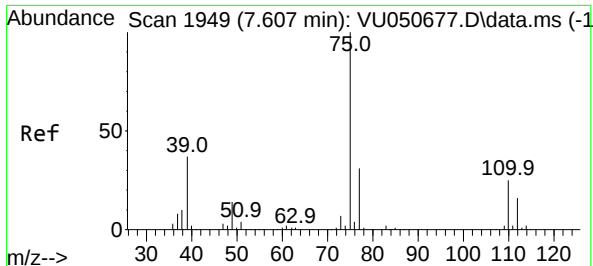
Ion Ratio Lower Upper

83 100

85 63.7 44.9 83.5

127 9.1 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 47.947 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

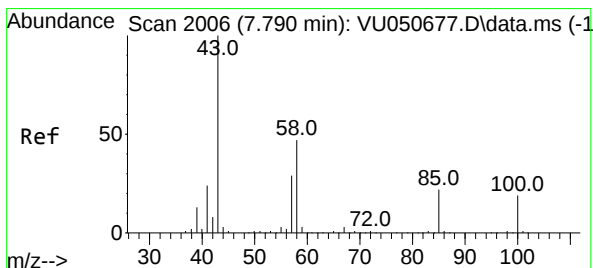
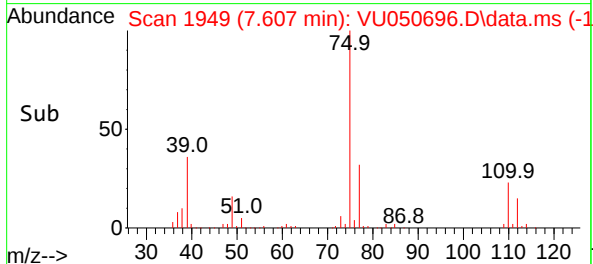
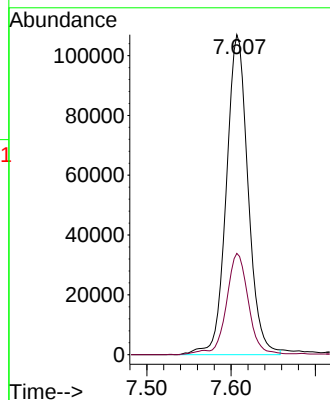
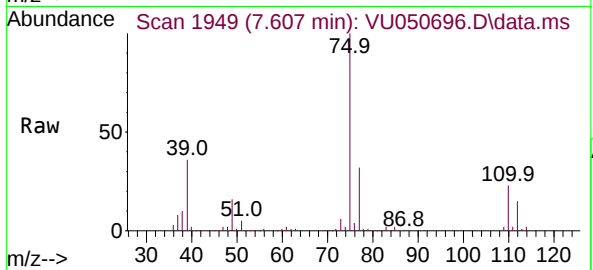
ClientSampleId :

Tgt Ion: 75 Resp: 191621

Ion Ratio Lower Upper

75 100

77 31.7 22.5 41.7



#40

4-Methyl-2-pentanone

Concen: 95.087 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

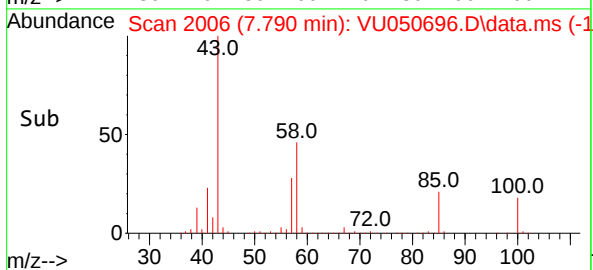
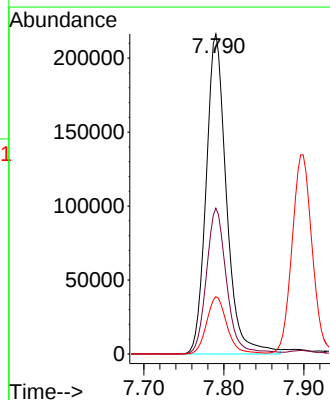
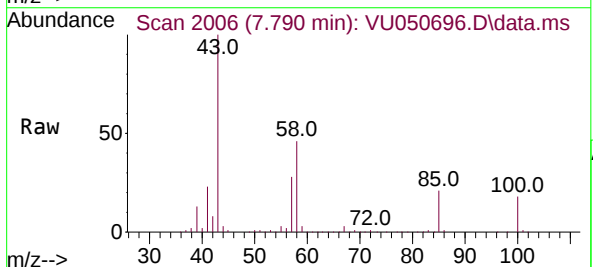
Tgt Ion: 43 Resp: 382584

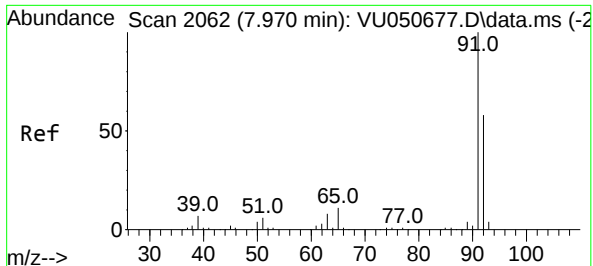
Ion Ratio Lower Upper

43 100

58 44.8 35.1 52.7

100 17.9 12.9 19.3





#42

Toluene

Concen: 45.486 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

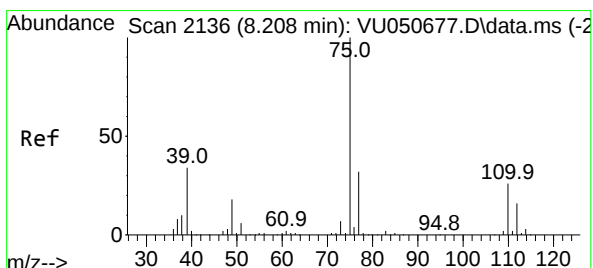
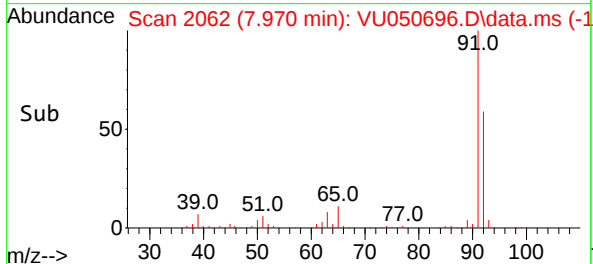
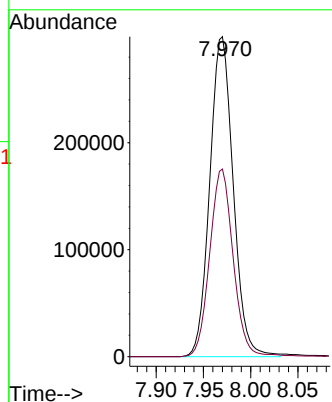
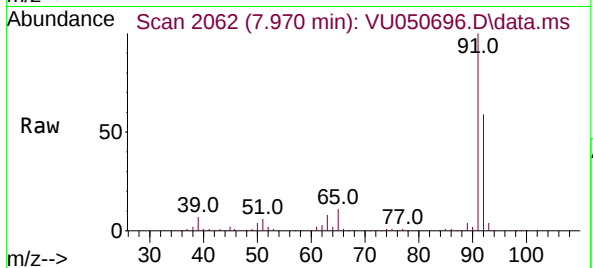
ClientSampleId :

Tgt Ion: 91 Resp: 516458

Ion Ratio Lower Upper

91 100

92 58.6 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 49.869 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. 0.003 min

Lab File: VU050696.D

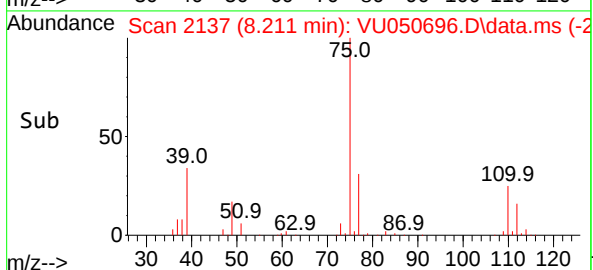
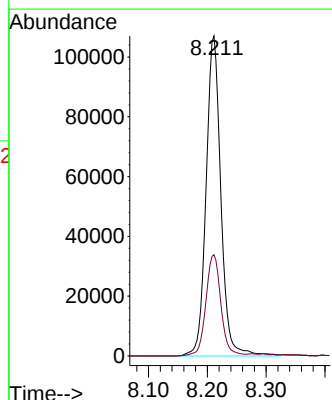
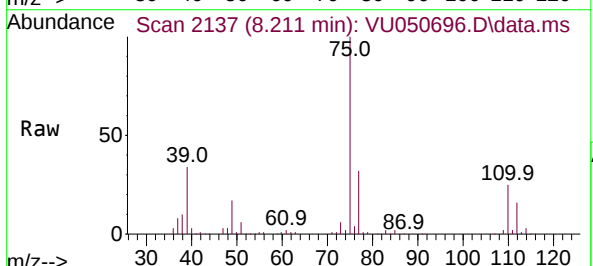
Acq: 08 Sep 2022 19:39

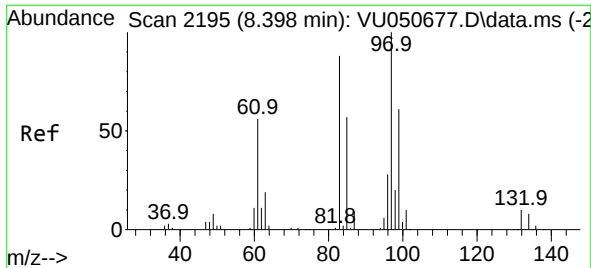
Tgt Ion: 75 Resp: 186993

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1



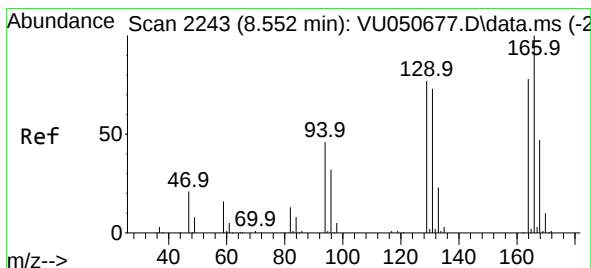
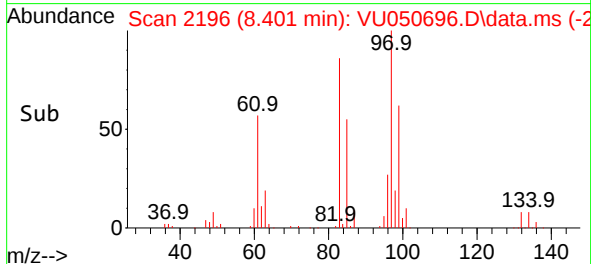
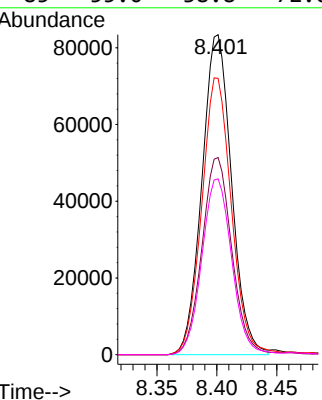
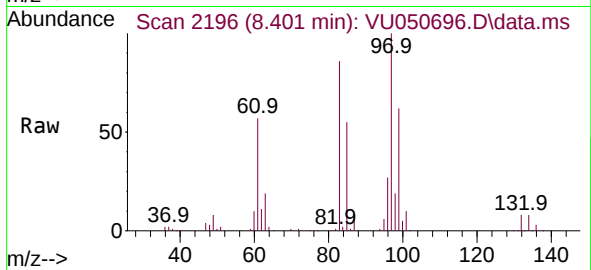


#45  
1,1,2-Trichloroethane  
Concen: 50.484 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. 0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 97 Resp: 143189

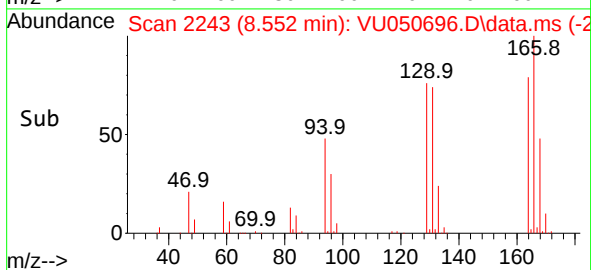
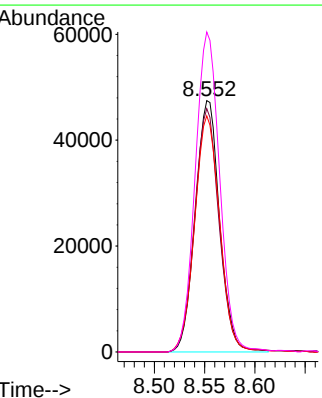
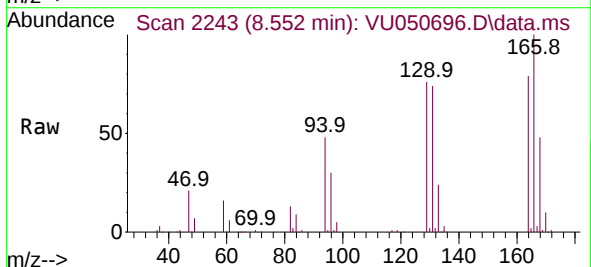
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.6  | 43.5  | 80.9  |
| 83  | 86.4  | 61.6  | 114.4 |
| 85  | 55.0  | 38.8  | 72.0  |

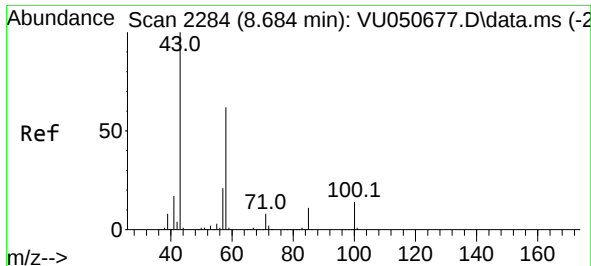


#46  
Tetrachloroethene  
Concen: 42.008 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion: 164 Resp: 79913

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 96.8  | 68.7  | 127.5 |
| 131 | 94.0  | 66.2  | 123.0 |
| 166 | 127.3 | 87.7  | 162.9 |

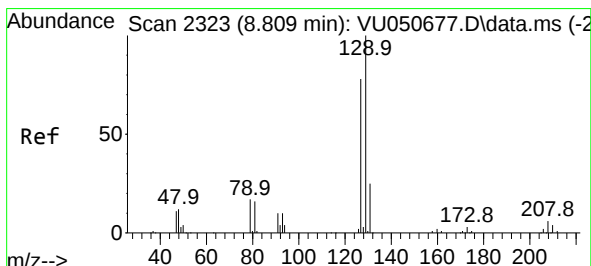
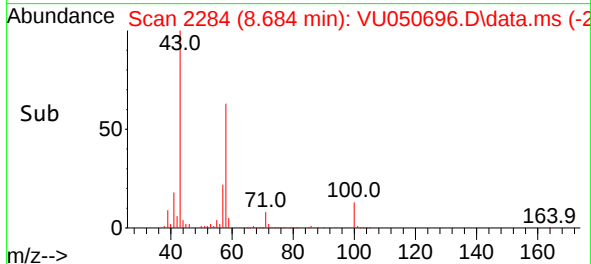
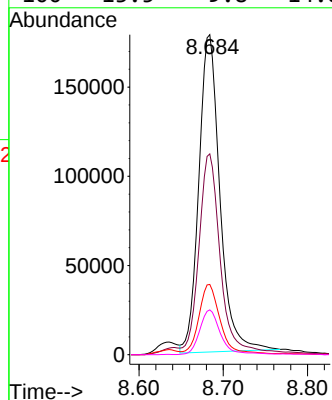
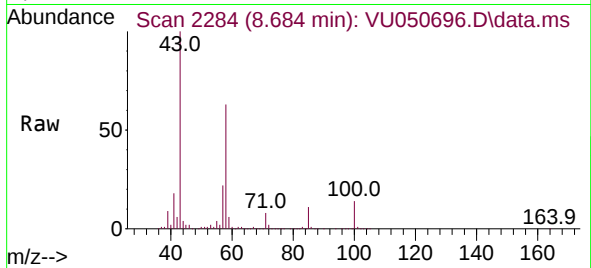




#48  
2-Hexanone  
Concen: 82.562 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

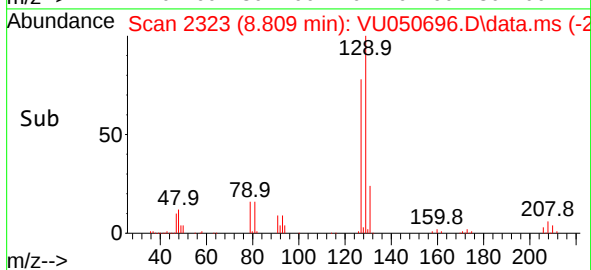
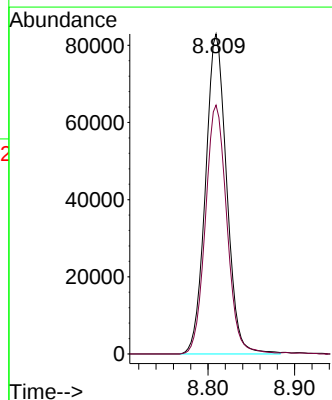
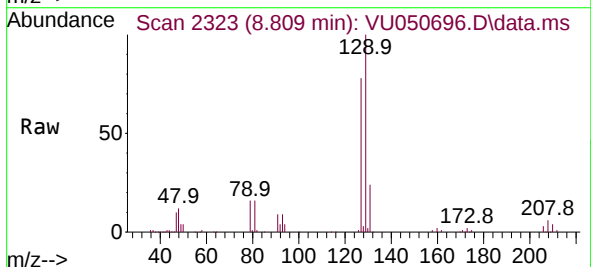
Instrument :  
MSVOA\_U  
ClientSampleId :

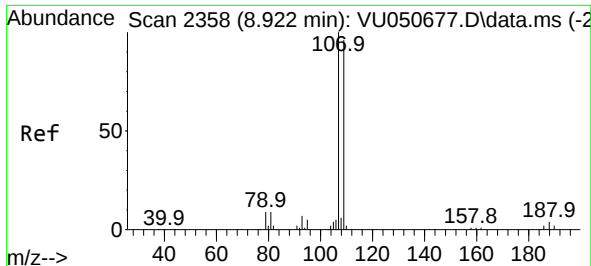
Tgt Ion: 43 Resp: 310018  
Ion Ratio Lower Upper  
43 100  
58 62.7 51.8 77.6  
57 21.8 17.0 25.4  
100 13.5 9.8 14.8



#49  
Dibromochloromethane  
Concen: 51.995 ug/L  
RT: 8.809 min Scan# 2323  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion: 129 Resp: 140661  
Ion Ratio Lower Upper  
129 100  
127 77.7 53.8 100.0

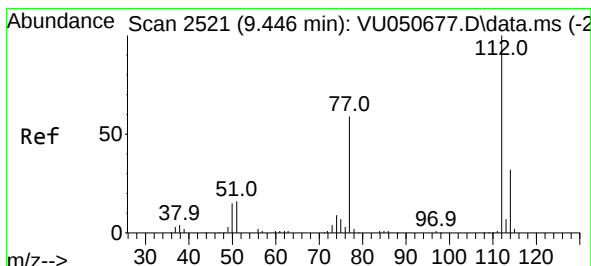
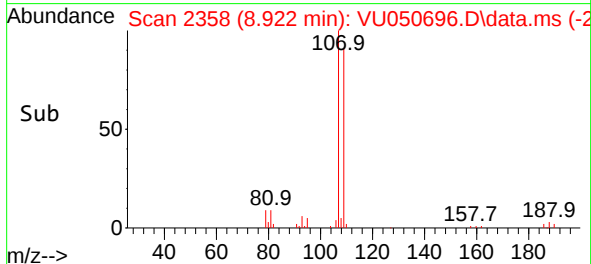
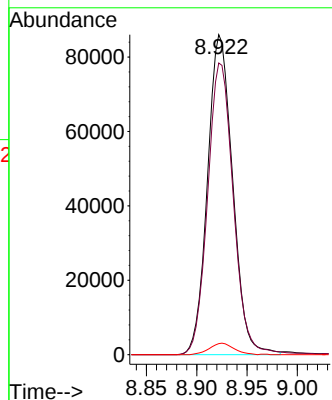
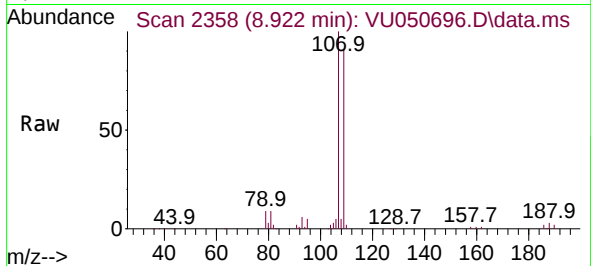




#50  
 1,2-Dibromoethane  
 Concen: 51.931 ug/L  
 RT: 8.922 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VU050696.D  
 Acq: 08 Sep 2022 19:39

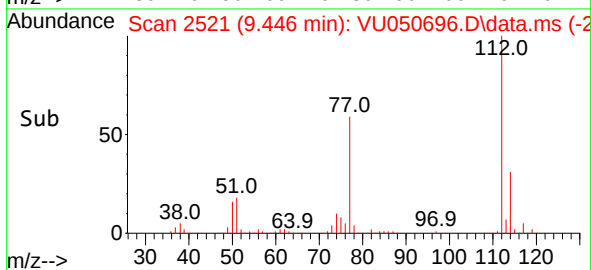
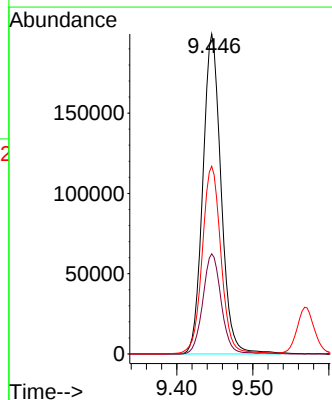
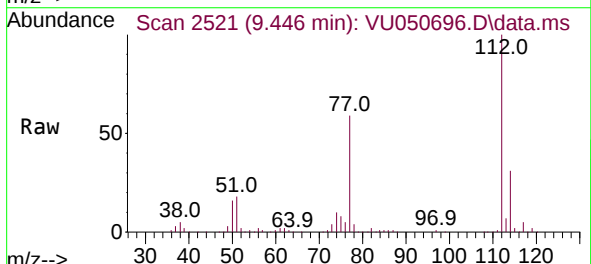
Instrument :  
 MSVOA\_U  
 ClientSampleId :

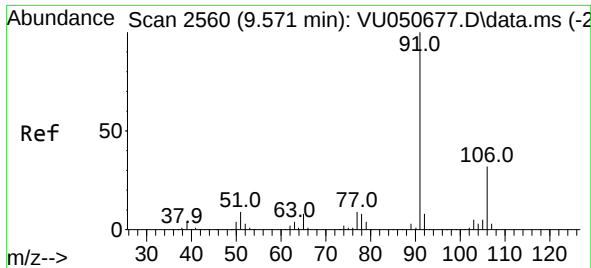
Tgt Ion:107 Resp: 149793  
 Ion Ratio Lower Upper  
 107 100  
 109 91.2 67.5 125.4  
 188 3.4 2.5 3.7



#51  
 Chlorobenzene  
 Concen: 47.100 ug/L  
 RT: 9.446 min Scan# 2521  
 Delta R.T. 0.000 min  
 Lab File: VU050696.D  
 Acq: 08 Sep 2022 19:39

Tgt Ion:112 Resp: 331904  
 Ion Ratio Lower Upper  
 112 100  
 114 31.3 22.1 41.1  
 77 58.7 49.2 73.8

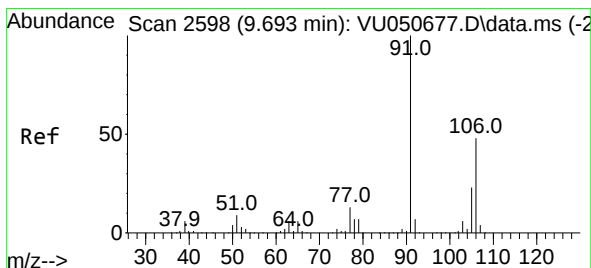
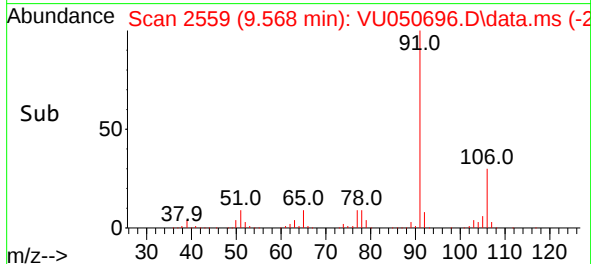
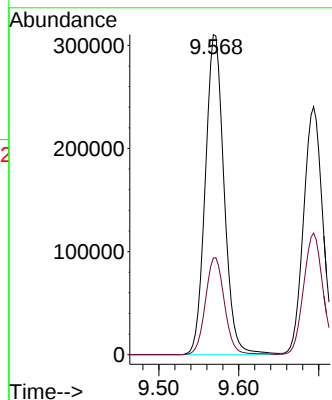
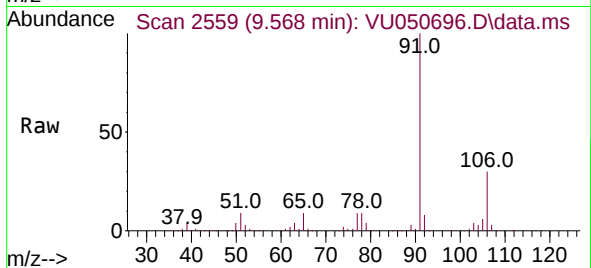




#52  
Ethylbenzene  
Concen: 45.244 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. -0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

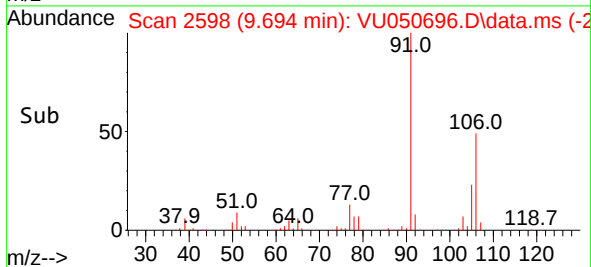
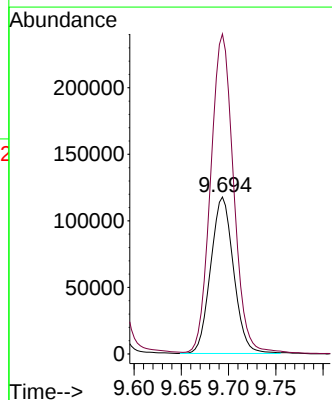
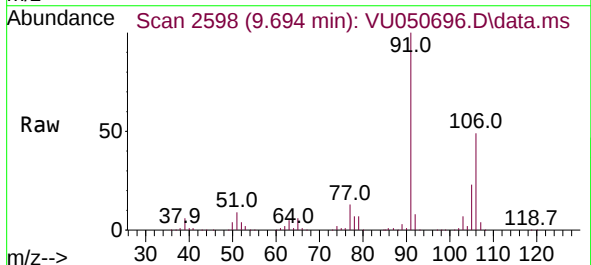
Instrument :  
MSVOA\_U  
ClientSampleId :

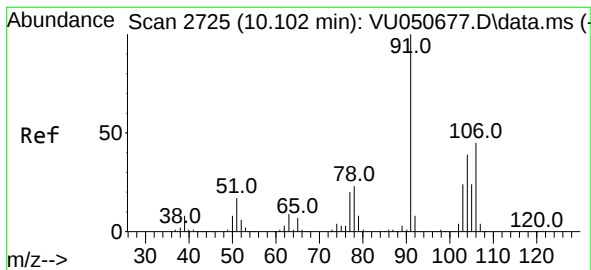
Tgt Ion: 91 Resp: 507485  
Ion Ratio Lower Upper  
91 100  
106 30.2 21.2 39.4



#53  
m,p-Xylene  
Concen: 46.076 ug/L  
RT: 9.694 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion:106 Resp: 198005  
Ion Ratio Lower Upper  
106 100  
91 203.8 147.1 273.3





#54

o-Xylene

Concen: 48.127 ug/L

RT: 10.099 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

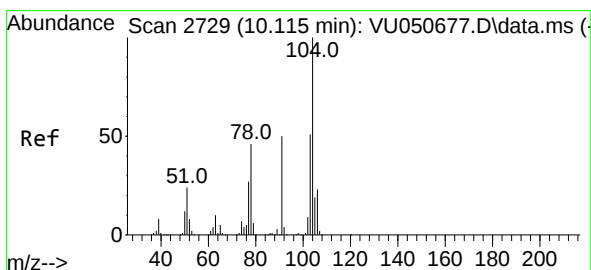
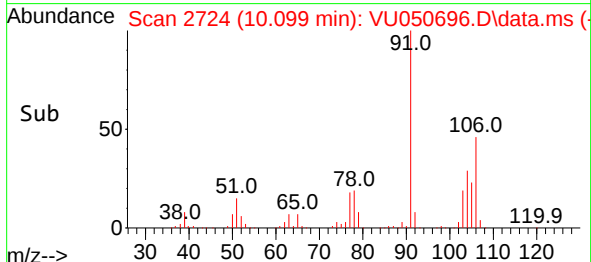
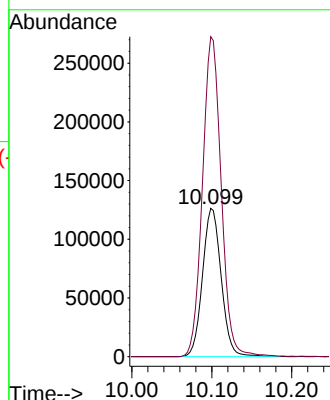
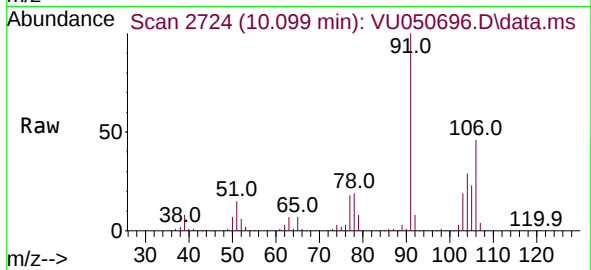
ClientSampleId :

Tgt Ion:106 Resp: 205906

Ion Ratio Lower Upper

106 100

91 215.8 153.4 284.8



#55

Styrene

Concen: 50.532 ug/L

RT: 10.115 min Scan# 2729

Delta R.T. 0.000 min

Lab File: VU050696.D

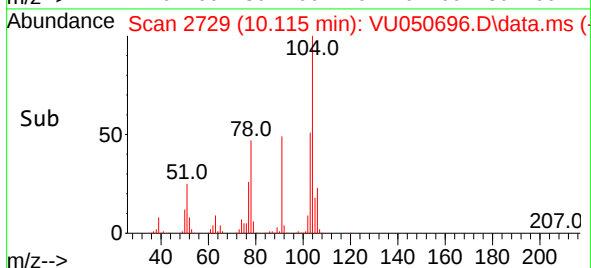
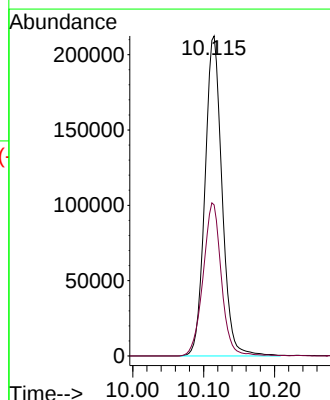
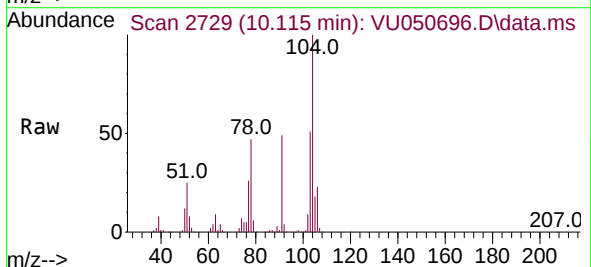
Acq: 08 Sep 2022 19:39

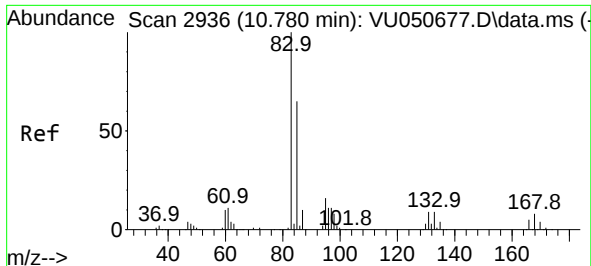
Tgt Ion:104 Resp: 355721

Ion Ratio Lower Upper

104 100

78 47.2 32.8 60.8





#57

1,1,2,2-Tetrachloroethane

Concen: 49.876 ug/L

RT: 10.780 min Scan# 2936

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

ClientSampleId :

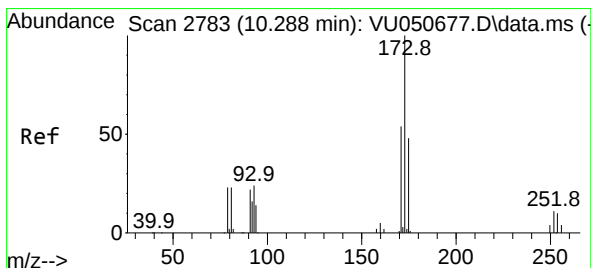
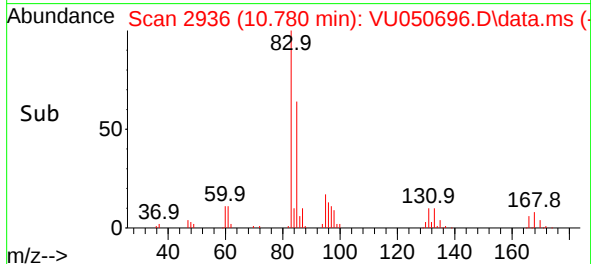
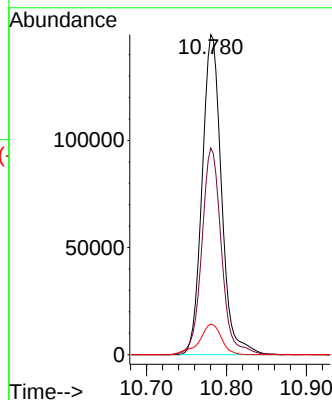
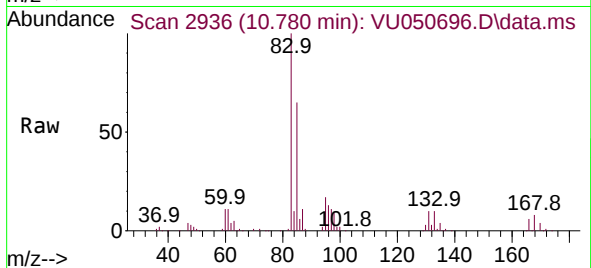
Tgt Ion: 83 Resp: 251979

Ion Ratio Lower Upper

83 100

85 64.6 45.5 84.5

131 9.5 7.7 11.5



#59

Bromoform

Concen: 48.851 ug/L

RT: 10.288 min Scan# 2783

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

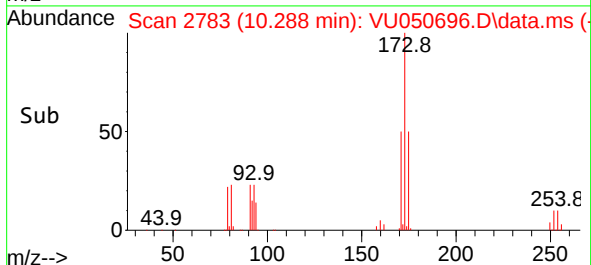
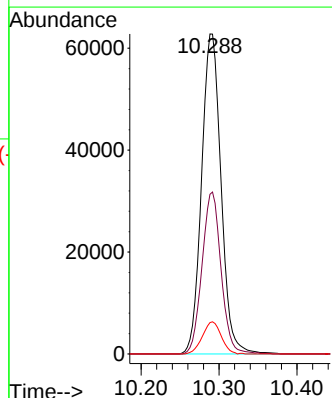
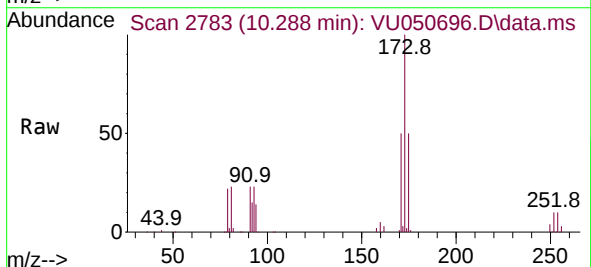
Tgt Ion:173 Resp: 109022

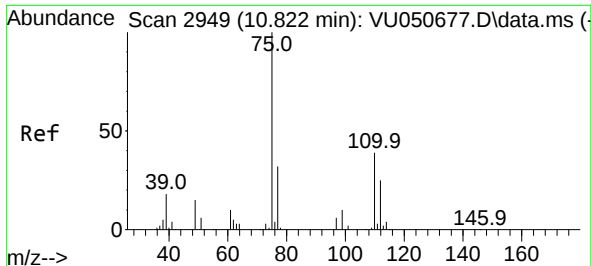
Ion Ratio Lower Upper

173 100

175 49.3 40.0 60.0

254 9.7 7.4 11.0

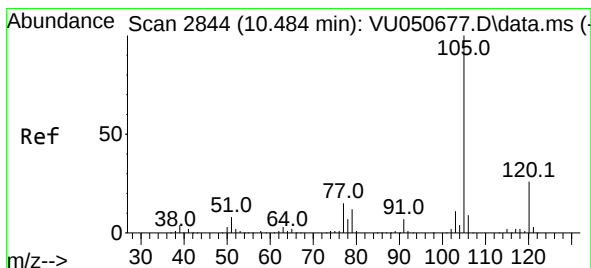
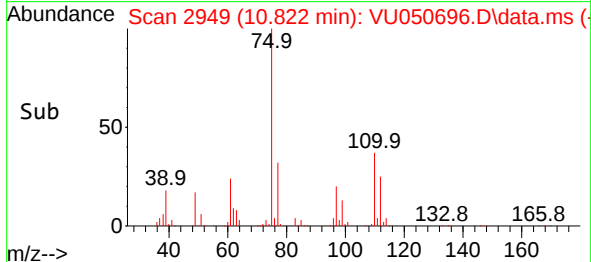
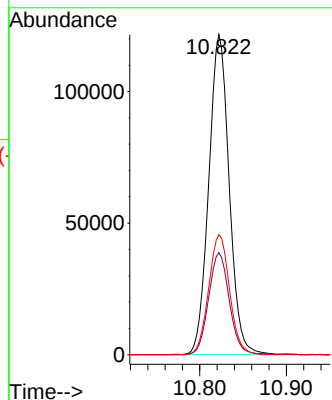
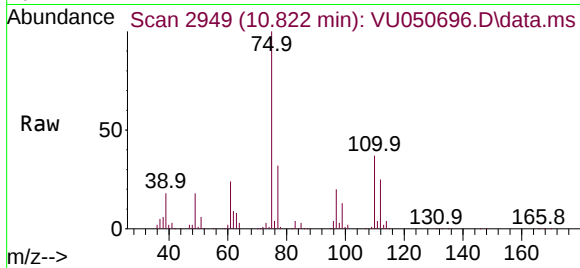




#60  
1,2,3-Trichloropropane  
Concen: 45.542 ug/L  
RT: 10.822 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

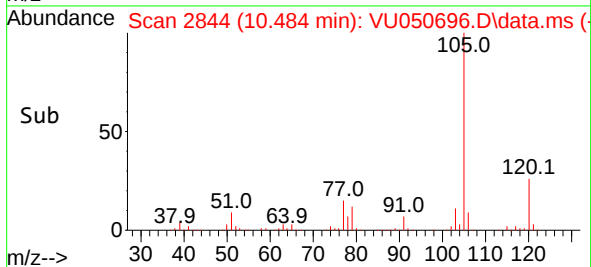
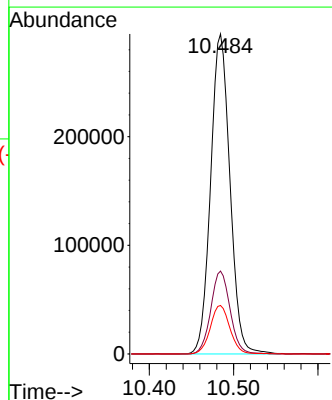
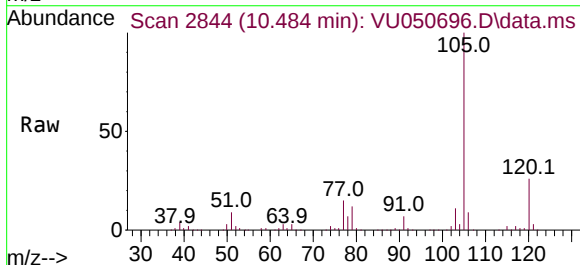
Instrument :  
MSVOA\_U  
ClientSampleId :

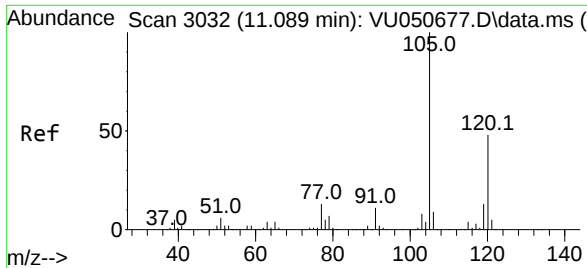
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 199875 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 32.3  | 25.8  | 38.8   |
| 110      | 38.3  | 29.3  | 43.9   |



#61  
Isopropylbenzene  
Concen: 39.595 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 468802 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 25.9  | 20.4  | 30.6   |
| 77       | 15.4  | 12.8  | 19.2   |

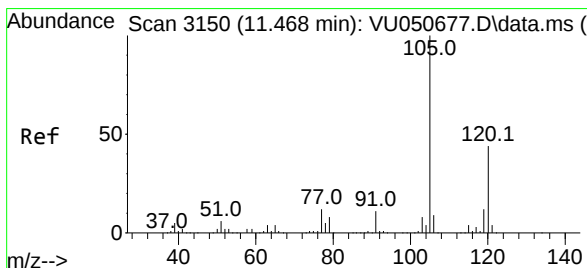
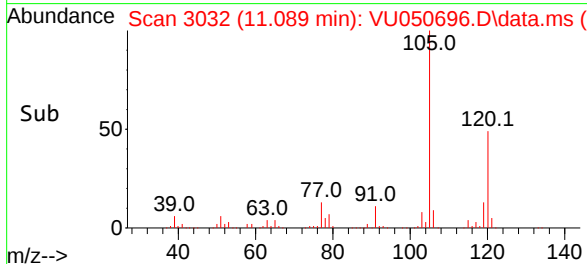
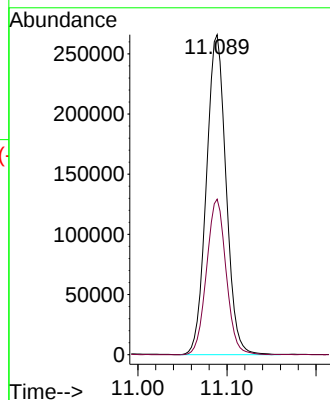
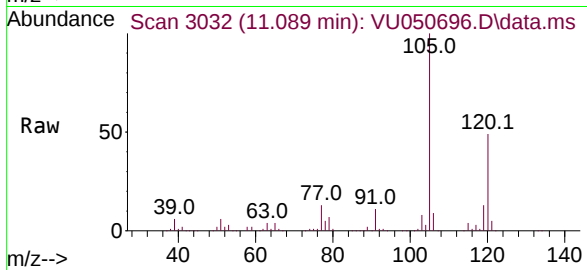




#62  
 1,3,5-Trimethylbenzene  
 Concen: 40.240 ug/L  
 RT: 11.089 min Scan# 3032  
 Delta R.T. 0.000 min  
 Lab File: VU050696.D  
 Acq: 08 Sep 2022 19:39

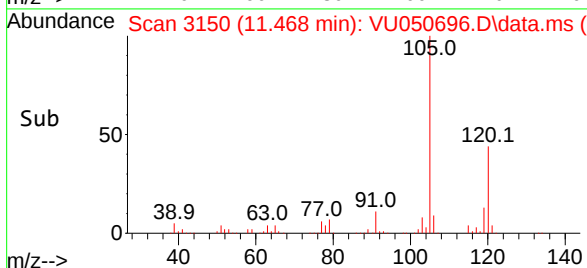
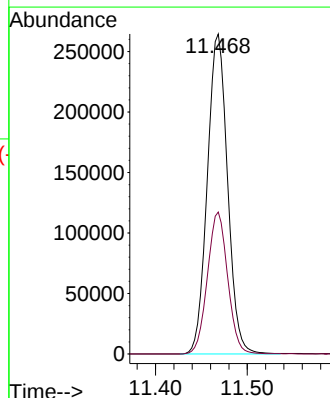
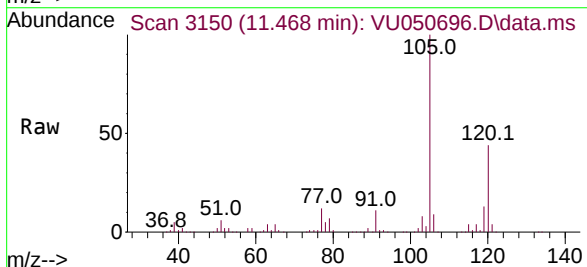
Instrument :  
 MSVOA\_U  
 ClientSampleId :

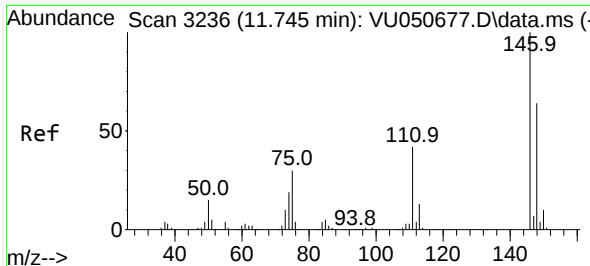
Tgt Ion:105 Resp: 407319  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 37.7 56.5



#63  
 1,2,4-Trimethylbenzene  
 Concen: 41.666 ug/L  
 RT: 11.468 min Scan# 3150  
 Delta R.T. 0.000 min  
 Lab File: VU050696.D  
 Acq: 08 Sep 2022 19:39

Tgt Ion:105 Resp: 404999  
 Ion Ratio Lower Upper  
 105 100  
 120 44.3 35.3 52.9

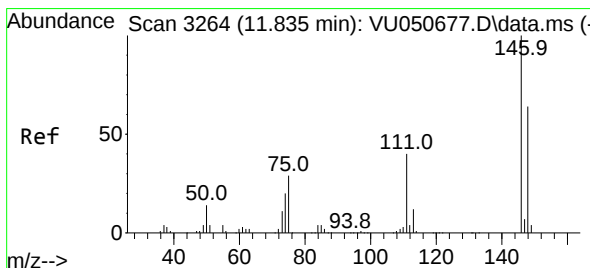
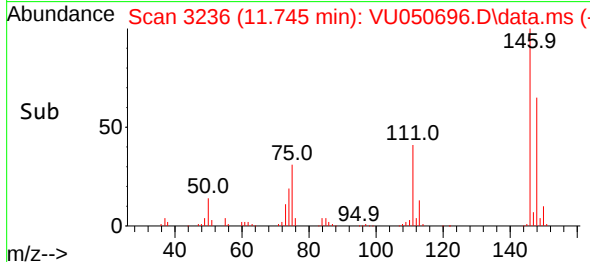
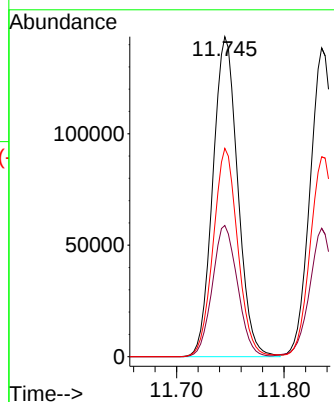
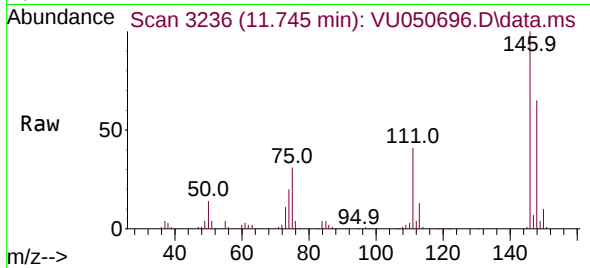




#64  
1,3-Dichlorobenzene  
Concen: 44.311 ug/L  
RT: 11.745 min Scan# 3236  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

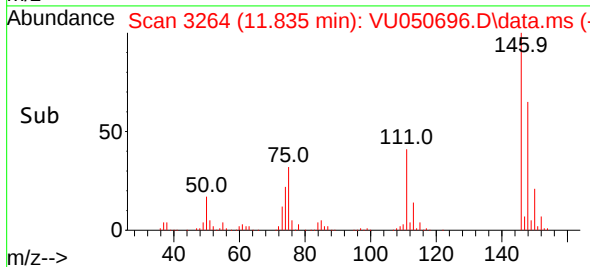
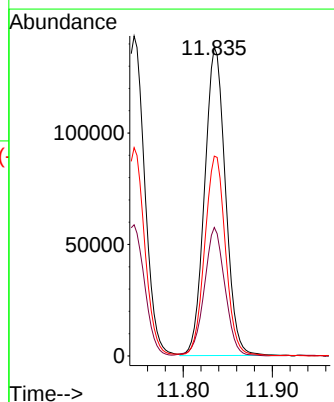
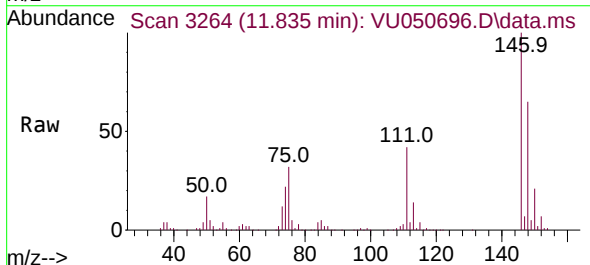
Instrument :  
MSVOA\_U  
ClientSampleId :

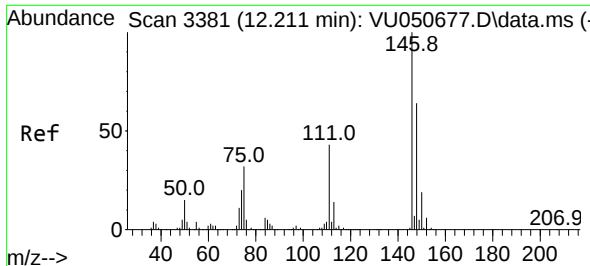
Tgt Ion:146 Resp: 230847  
Ion Ratio Lower Upper  
146 100  
111 41.0 29.9 55.5  
148 65.1 45.5 84.5



#65  
1,4-Dichlorobenzene  
Concen: 43.575 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion:146 Resp: 224388  
Ion Ratio Lower Upper  
146 100  
111 41.6 27.9 51.7  
148 64.7 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 45.211 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

Instrument :

MSVOA\_U

ClientSampleId :

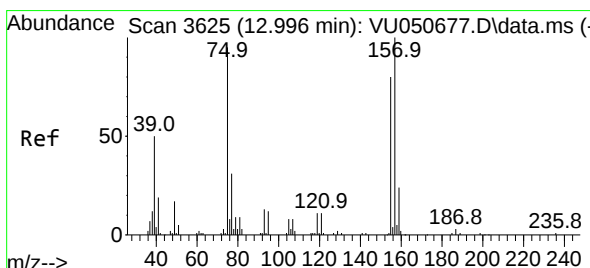
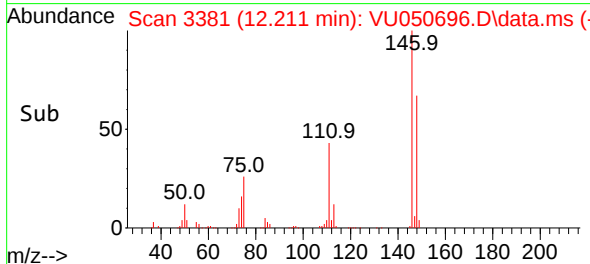
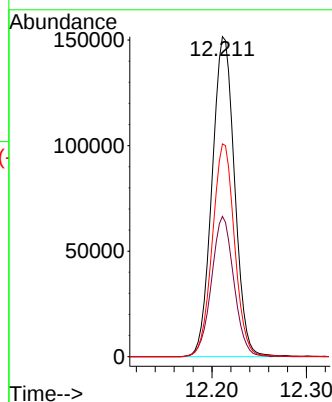
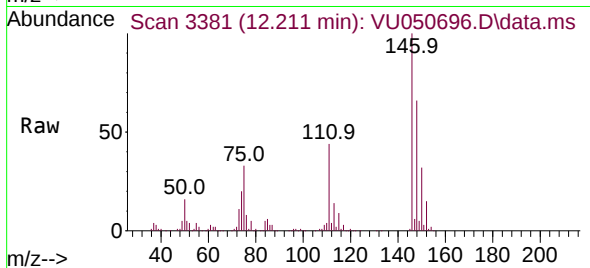
Tgt Ion:146 Resp: 250853

Ion Ratio Lower Upper

146 100

111 43.9 35.1 52.7

148 66.5 51.8 77.6



#68

1,2-Dibromo-3-chloropropane

Concen: 45.030 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. 0.000 min

Lab File: VU050696.D

Acq: 08 Sep 2022 19:39

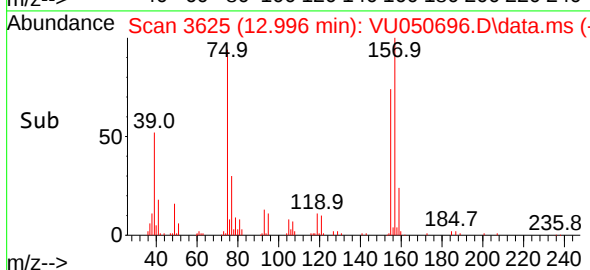
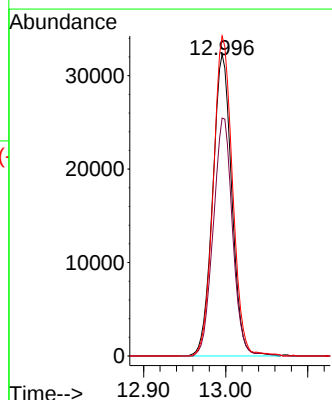
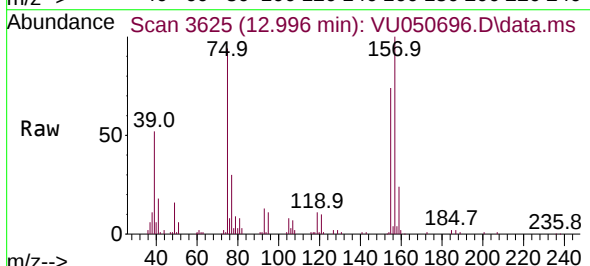
Tgt Ion: 75 Resp: 52189

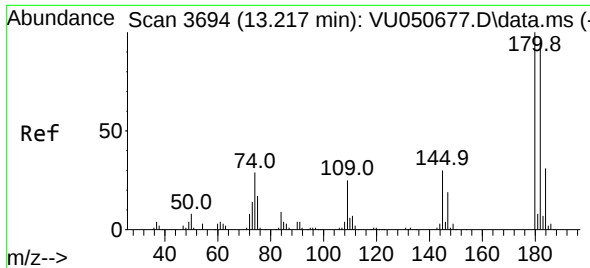
Ion Ratio Lower Upper

75 100

155 78.9 67.8 101.6

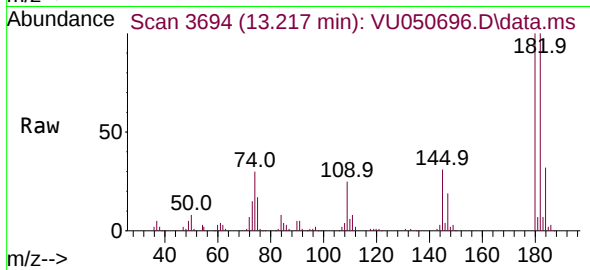
157 106.1 82.6 124.0



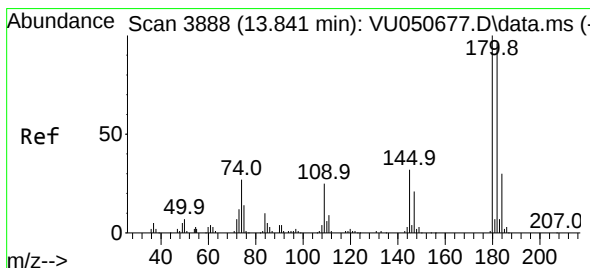
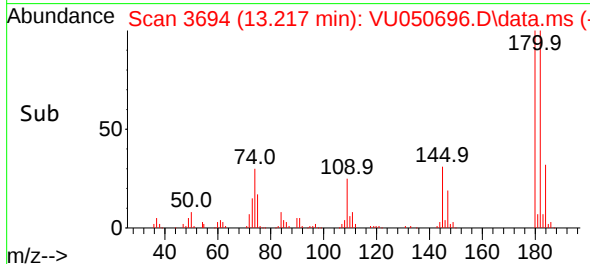
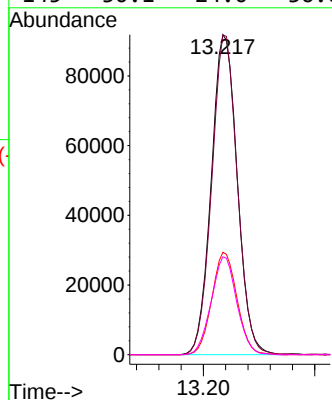


#69  
 1,3,5-Trichlorobenzene  
 Concen: 39.325 ug/L  
 RT: 13.217 min Scan# 3694  
 Delta R.T. 0.000 min  
 Lab File: VU050696.D  
 Acq: 08 Sep 2022 19:39

Instrument :  
 MSVOA\_U  
 ClientSampleId :

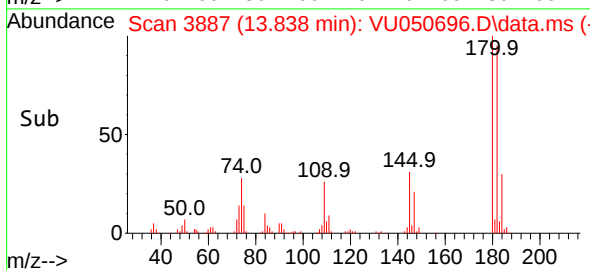
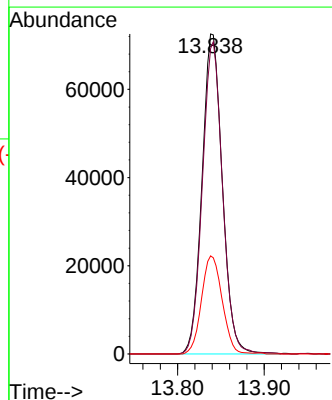
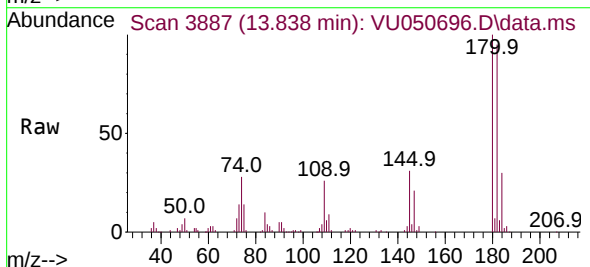


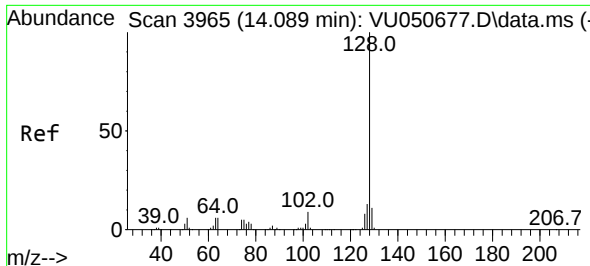
Tgt Ion:180 Resp: 148675  
 Ion Ratio Lower Upper  
 180 100  
 182 98.0 75.3 112.9  
 184 31.1 23.8 35.8  
 145 30.1 24.0 36.0



#70  
 1,2,4-trichlorobenzene  
 Concen: 36.823 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. -0.003 min  
 Lab File: VU050696.D  
 Acq: 08 Sep 2022 19:39

Tgt Ion:180 Resp: 118215  
 Ion Ratio Lower Upper  
 180 100  
 182 96.5 76.2 114.2  
 145 31.1 24.7 37.1

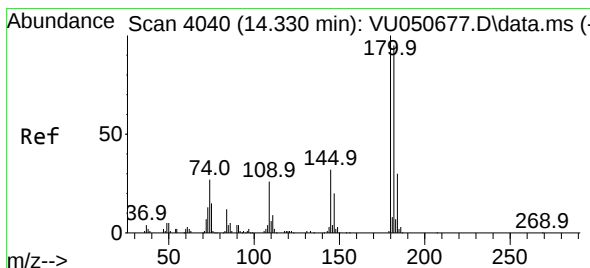
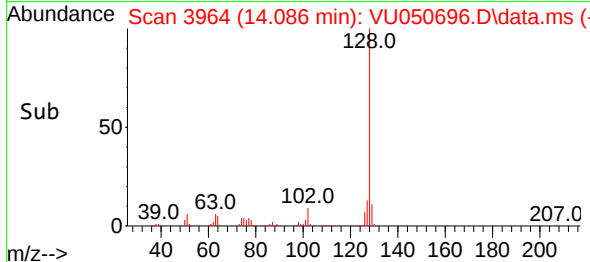
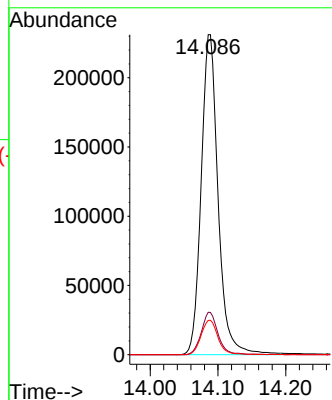
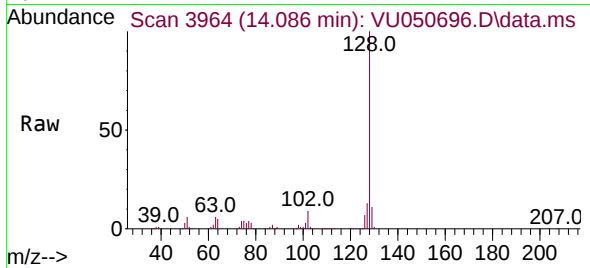




#71  
Naphthalene  
Concen: 35.131 ug/L  
RT: 14.086 min Scan# 3965  
Delta R.T. -0.003 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:128 Resp: 399871  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.1 15.1  
129 10.7 8.4 12.6



#72  
1,2,3-Trichlorobenzene  
Concen: 38.298 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.000 min  
Lab File: VU050696.D  
Acq: 08 Sep 2022 19:39

Tgt Ion:180 Resp: 133142  
Ion Ratio Lower Upper  
180 100  
182 95.3 76.1 114.1  
145 32.6 26.4 39.6

