

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV092024\  
 Data File : VV037438.D  
 Acq On : 20 Sep 2024 17:26  
 Operator : SY/MD  
 Sample : P4081-05  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 20 23:38:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR091024WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 20 23:32:27 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 295117   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783  | 117   | 289153   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181 | 152   | 141716   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.272  | 65    | 56777    | 3.279    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 65.600%  |
| 7) Chloroethane-d5            | 1.526  | 69    | 72888    | 4.038    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 80.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.047  | 65    | 32551    | 3.641    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 72.800%  |
| 20) 2-Butanone-d5             | 3.841  | 46    | 251152   | 48.538   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 97.080%  |
| 24) Chloroform-d              | 4.243  | 84    | 197969   | 4.709    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.200%  |
| 26) 1,2-Dichloroethane-d4     | 4.940  | 65    | 96193    | 4.887    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 97.800%  |
| 32) Benzene-d6                | 4.953  | 84    | 369352   | 4.764    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.200%  |
| 36) 1,2-Dichloropropane-d6    | 5.985  | 67    | 119878   | 4.972    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 99.400%  |
| 41) Toluene-d8                | 7.239  | 98    | 295629   | 4.232    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.600%  |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 32489    | 4.097    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 82.000%  |
| 46) 2-Hexanone-d5             | 8.027  | 63    | 216662   | 55.917   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 111.840% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 110608   | 5.629    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 112.600% |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 141588   | 5.620    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 112.400% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 8) Chloroethane               | 1.542  | 64    | 15670    | 0.906    | ug/L # | 81       |
| 15) Methyl Acetate            | 2.426  | 43    | 6085     | 0.737    | ug/L # | 49       |
| 21) 2-Butanone                | 3.998  | 43    | 147824   | 26.996   | ug/L # | 51       |
| 27) 1,2-Dichloroethane        | 5.005  | 62    | 5050     | 0.213    | ug/L # | 72       |
| 30) Cyclohexane               | 4.571  | 56    | 198522   | 5.968    | ug/L   | 99       |
| 33) Benzene                   | 5.002  | 78    | 531084   | 6.096    | ug/L   | 100      |
| 35) Methylcyclohexane         | 6.040  | 83    | 252100   | 7.064    | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 7.706  | 97    | 9388     | 0.592    | ug/L # | 18       |
| 51) Chlorobenzene             | 8.818  | 112   | 10325    | 0.171    | ug/L   | 96       |
| 52) Ethylbenzene              | 8.953  | 91    | 14431    | 0.143    | ug/L   | 85       |
| 53) m,p-Xylene                | 9.085  | 106   | 2690     | 0.072    | ug/L   | 87       |
| 54) o-Xylene                  | 9.480  | 106   | 6107     | 0.166    | ug/L   | 72       |
| 60) Isopropylbenzene          | 9.863  | 105   | 679531   | 7.164    | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.284 | 75    | 3939     | 0.305    | ug/L # | 1        |
| 62) 1,3,5-Trimethylbenzene    | 11.265 | 105   | 1746816  | 23.224   | ug/L   | 91       |
| 63) 1,2,4-Trimethylbenzene    | 11.265 | 105   | 1746816  | 23.119   | ug/L   | 95       |
| 68) 1,2-Dibromo-3-chloropr... | 12.345 | 75    | 10857    | 4.060    | ug/L # | 5        |
| 71) Naphthalene               | 13.432 | 128   | 1035708  | 25.746   | ug/L   | 99       |
| -----                         |        |       |          |          |        |          |

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Sample : P4081-05  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Sep 20 23:38:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR091024WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Sep 20 23:32:27 2024  
Response via : Initial Calibration

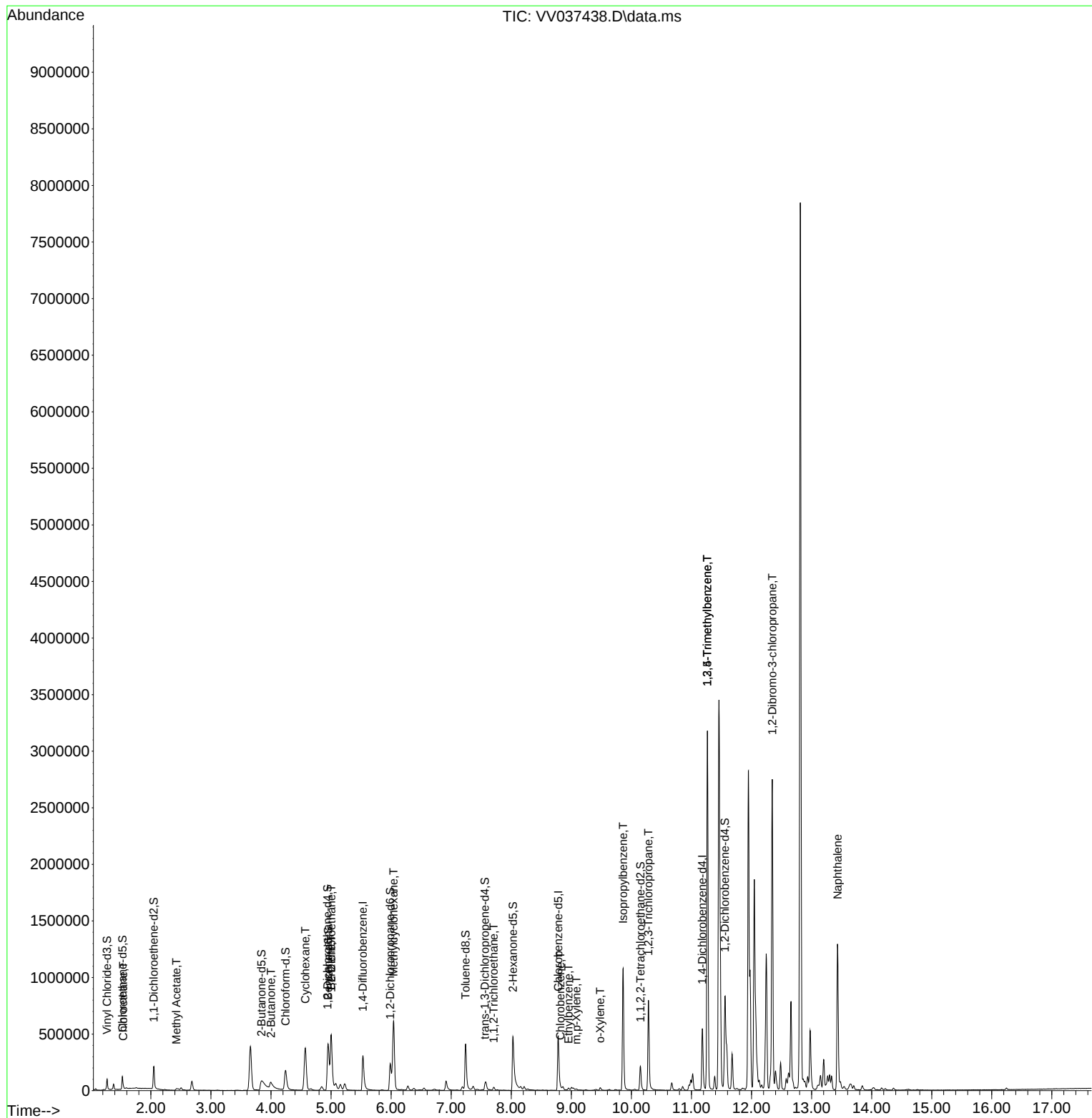
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

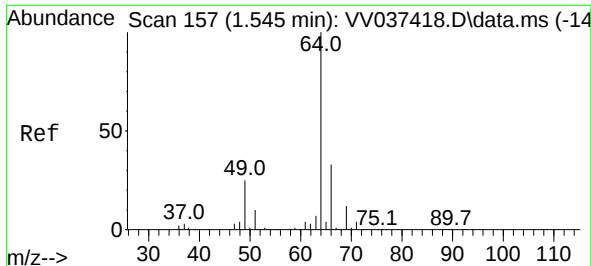
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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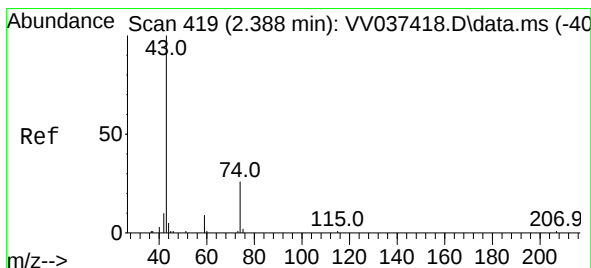
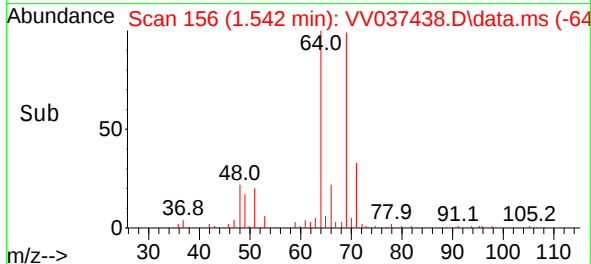
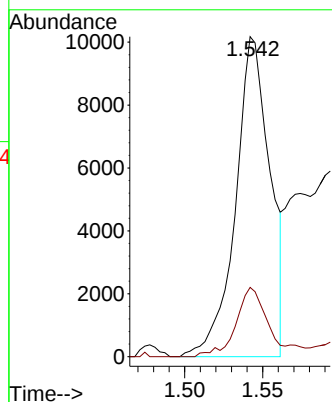
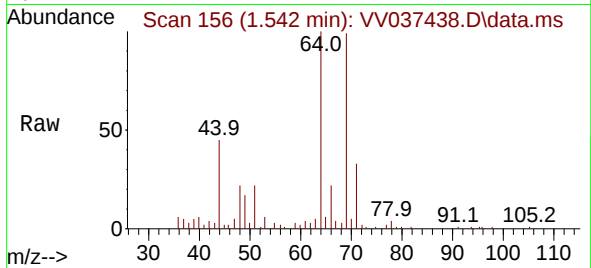




#8  
Chloroethane  
Concen: 0.906 ug/L  
RT: 1.542 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

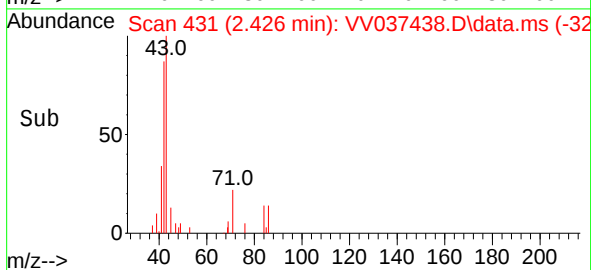
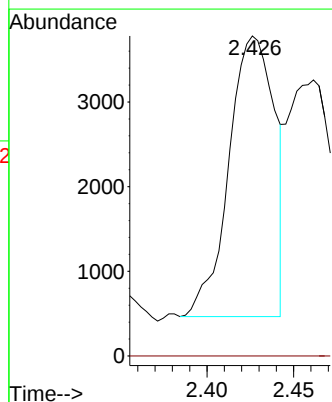
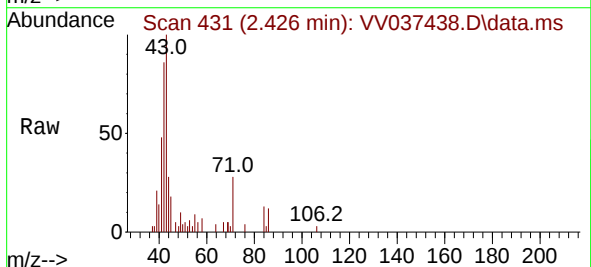
Instrument :  
MSVOA\_V  
ClientSampleId :

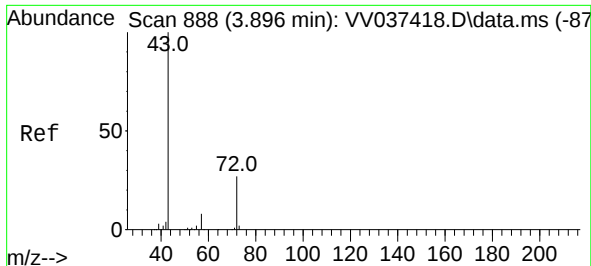
Tgt Ion: 64 Resp: 15670  
Ion Ratio Lower Upper  
64 100  
66 21.6 22.7 42.1#



#15  
Methyl Acetate  
Concen: 0.737 ug/L  
RT: 2.426 min Scan# 431  
Delta R.T. 0.038 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

Tgt Ion: 43 Resp: 6085  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#

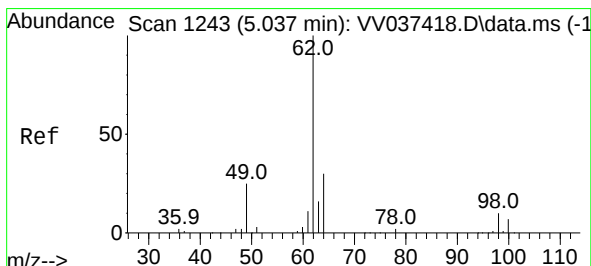
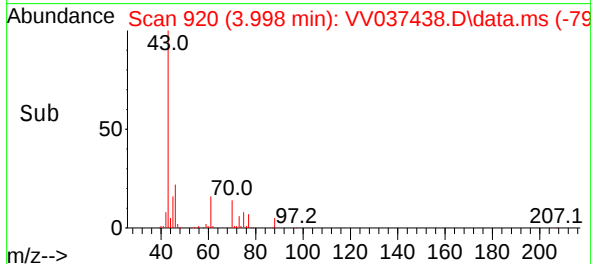
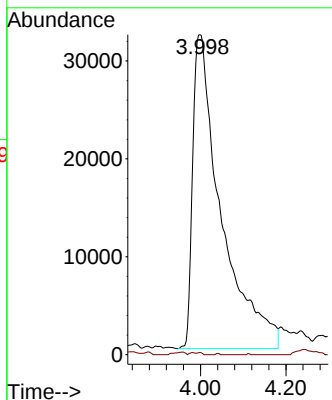
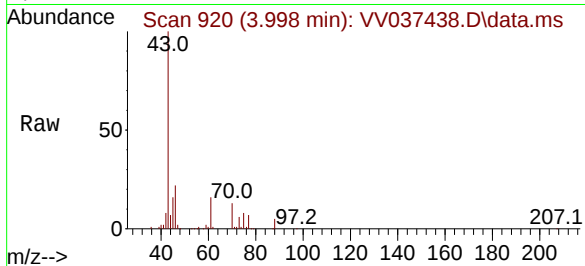




#21  
2-Butanone  
Concen: 26.996 ug/L  
RT: 3.998 min Scan# 91  
Delta R.T. 0.103 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

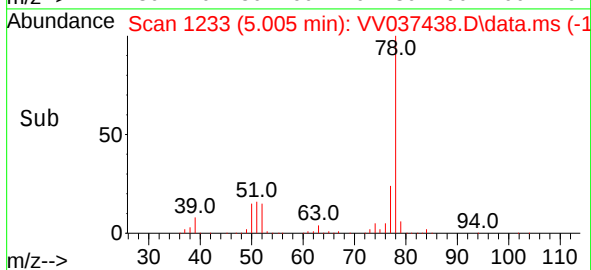
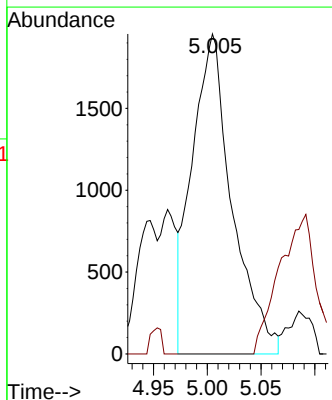
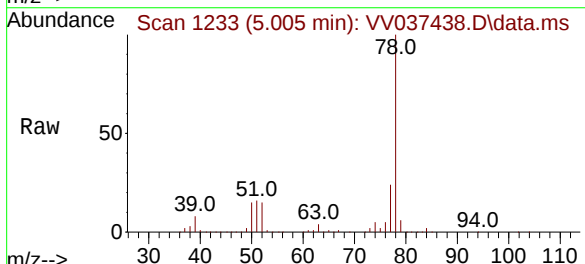
Instrument :  
MSVOA\_V  
ClientSampleId :

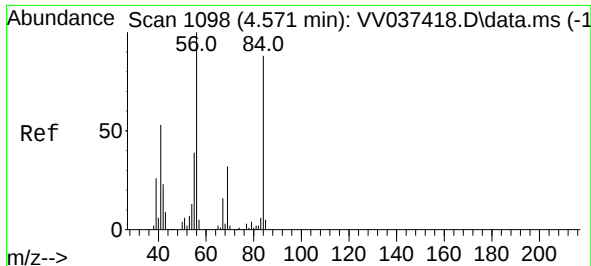
Tgt Ion: 43 Resp: 147824  
Ion Ratio Lower Upper  
43 100  
72 0.1 12.2 36.6#



#27  
1,2-Dichloroethane  
Concen: 0.213 ug/L  
RT: 5.005 min Scan# 1233  
Delta R.T. -0.032 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

Tgt Ion: 62 Resp: 5050  
Ion Ratio Lower Upper  
62 100  
98 0.0 8.2 12.4#





#30

Cyclohexane

Concen: 5.968 ug/L

RT: 4.571 min Scan# 1098

Delta R.T. -0.000 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

Instrument :

MSVOA\_V

ClientSampleId :

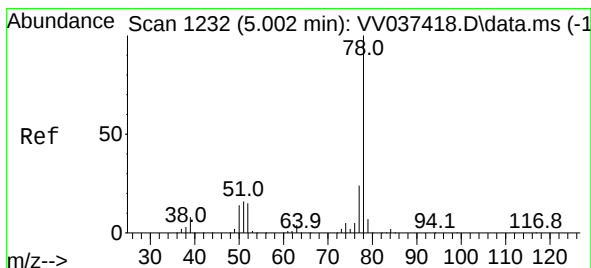
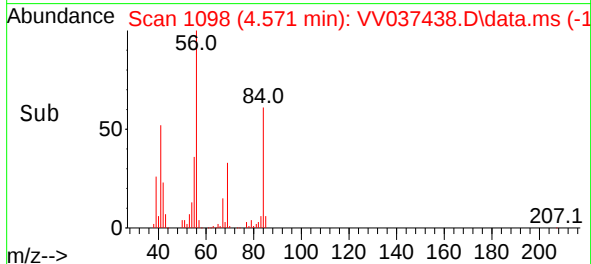
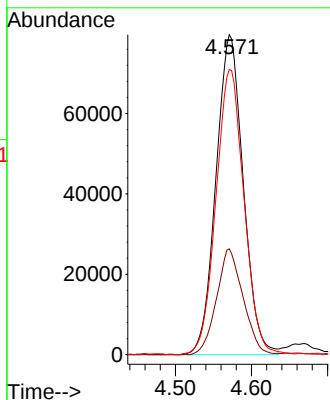
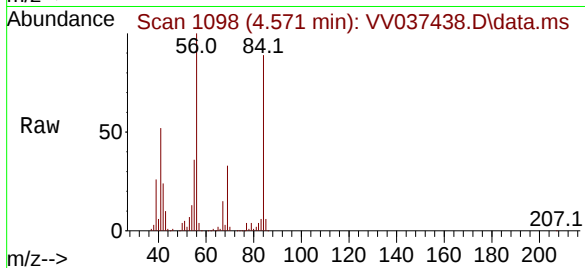
Tgt Ion: 56 Resp: 198522

Ion Ratio Lower Upper

56 100

69 32.1 24.1 36.1

84 91.5 73.1 109.7



#33

Benzene

Concen: 6.096 ug/L

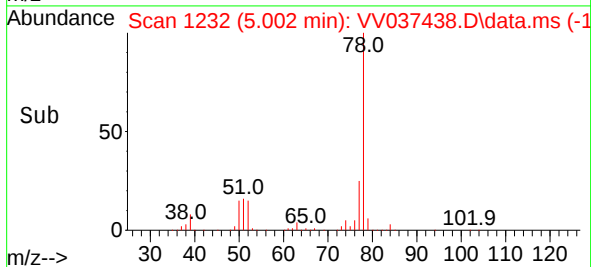
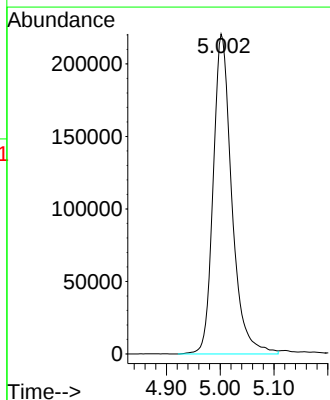
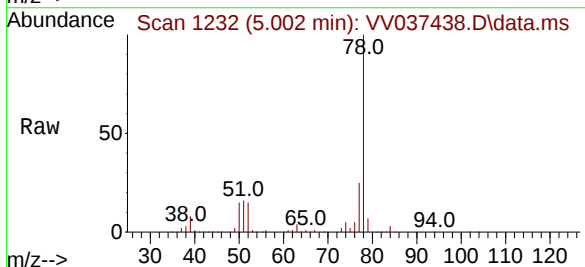
RT: 5.002 min Scan# 1232

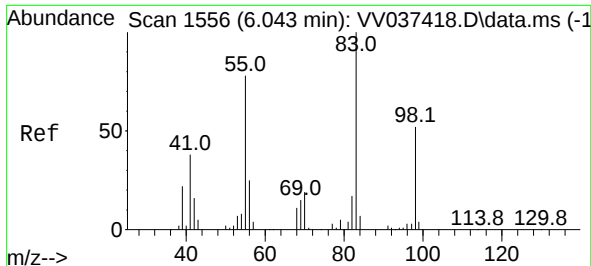
Delta R.T. -0.000 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

Tgt Ion: 78 Resp: 531084





#35

Methylcyclohexane

Concen: 7.064 ug/L

RT: 6.040 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

Instrument :

MSVOA\_V

ClientSampleId :

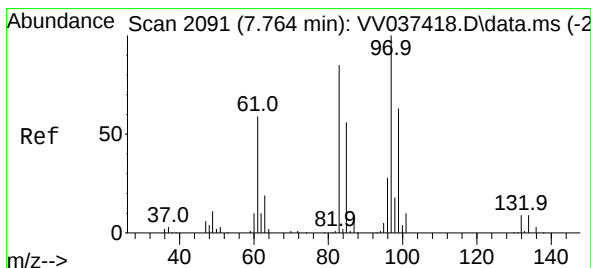
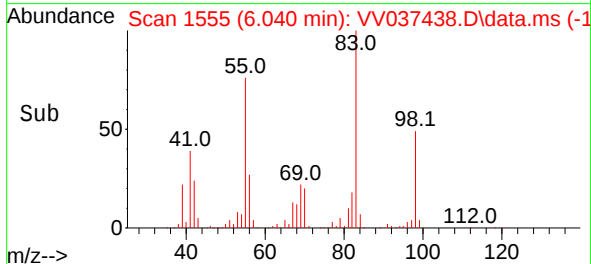
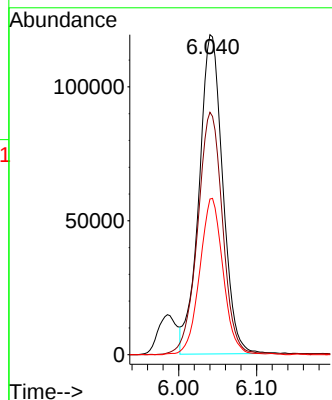
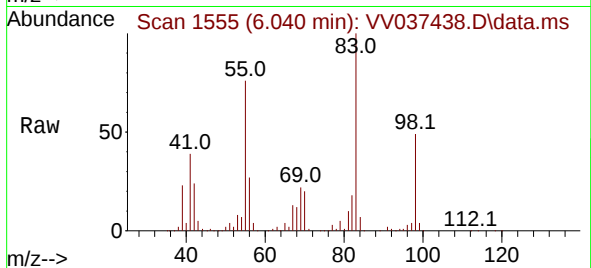
Tgt Ion: 83 Resp: 252100

Ion Ratio Lower Upper

83 100

55 80.0 60.3 90.5

98 48.4 38.2 57.4



#45

1,1,2-Trichloroethane

Concen: 0.592 ug/L

RT: 7.706 min Scan# 2073

Delta R.T. -0.058 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

Tgt Ion: 97 Resp: 9388

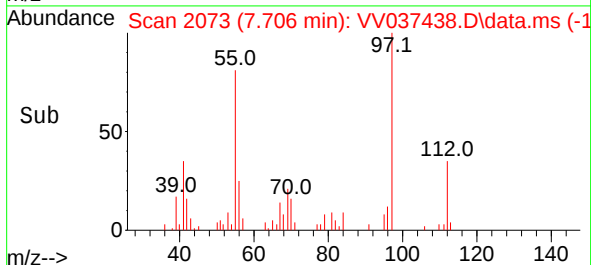
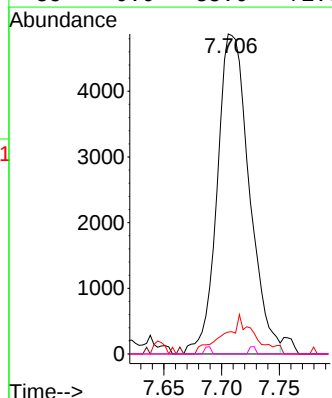
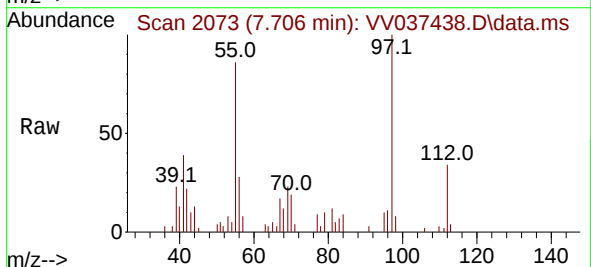
Ion Ratio Lower Upper

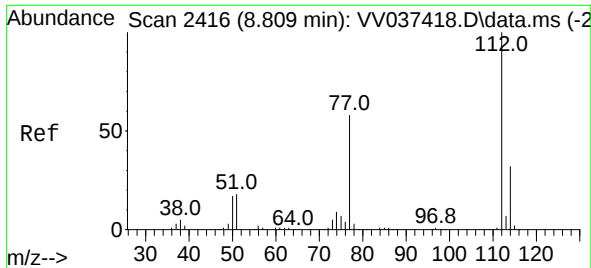
97 100

99 0.0 43.1 80.1#

83 6.9 61.0 113.4#

85 0.0 38.6 71.6#





#51

Chlorobenzene

Concen: 0.171 ug/L

RT: 8.818 min Scan# 2416

Delta R.T. 0.010 min

Lab File: VV037438.D

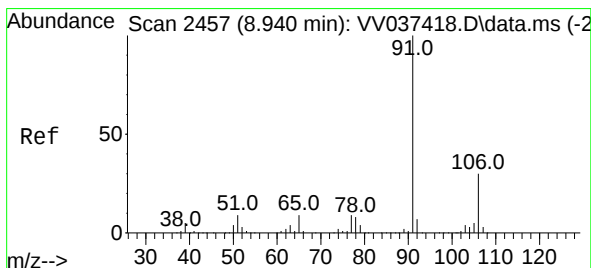
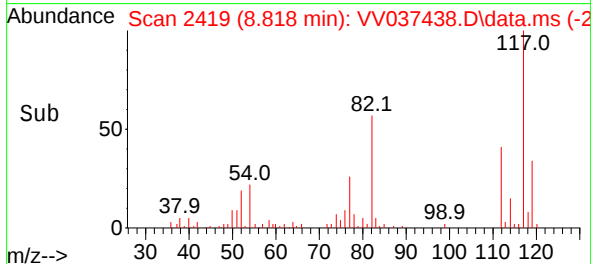
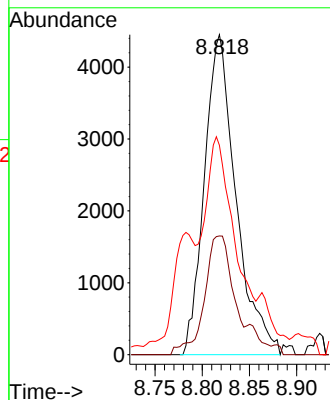
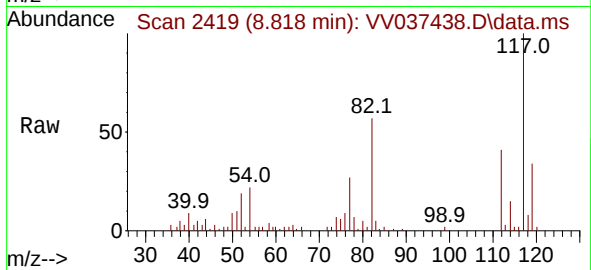
Acq: 20 Sep 2024 17:26

Instrument :

MSVOA\_V

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:112 | Resp: | 10325     |
| Ion Ratio   | Lower | Upper     |
| 112         | 100   |           |
| 114         | 34.8  | 22.6 42.0 |
| 77          | 61.4  | 47.0 70.6 |



#52

Ethylbenzene

Concen: 0.143 ug/L

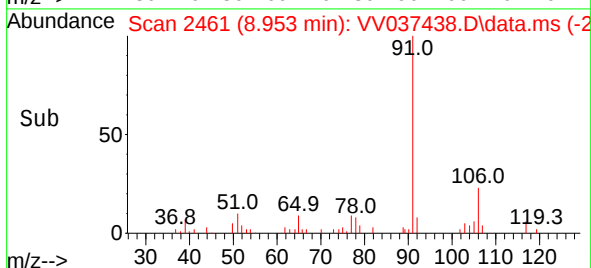
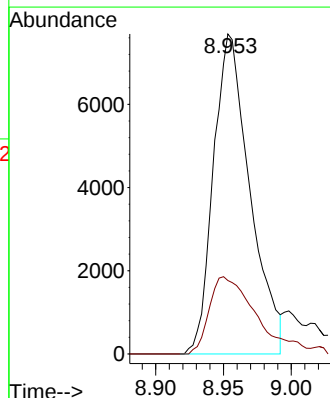
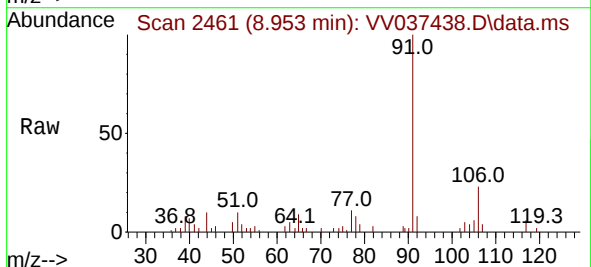
RT: 8.953 min Scan# 2461

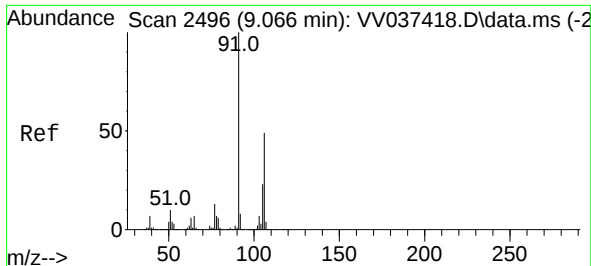
Delta R.T. 0.013 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 91 | Resp: | 14431     |
| Ion Ratio   | Lower | Upper     |
| 91          | 100   |           |
| 106         | 23.0  | 21.7 40.3 |





#53

m,p-Xylene

Concen: 0.072 ug/L

RT: 9.085 min Scan# 2496

Delta R.T. 0.019 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

Instrument :

MSVOA\_V

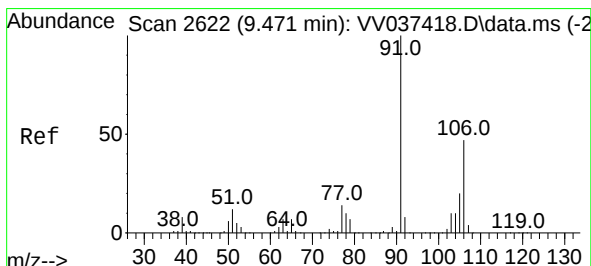
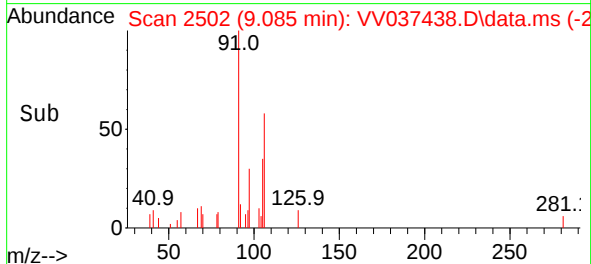
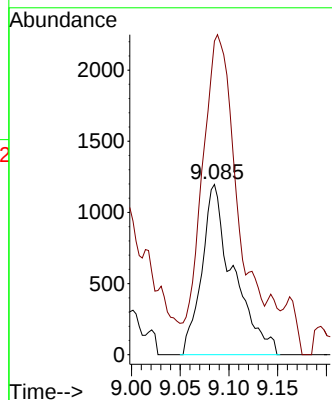
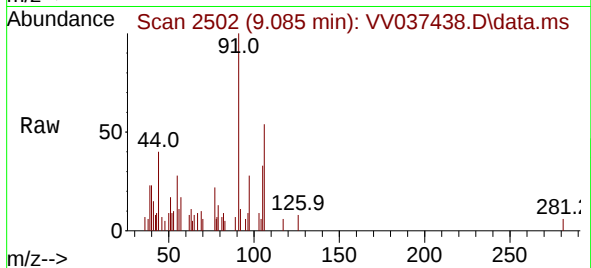
ClientSampleId :

Tgt Ion:106 Resp: 2690

Ion Ratio Lower Upper

106 100

91 184.1 143.3 266.1



#54

o-Xylene

Concen: 0.166 ug/L

RT: 9.480 min Scan# 2625

Delta R.T. 0.010 min

Lab File: VV037438.D

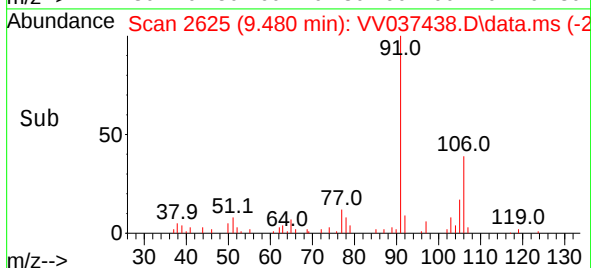
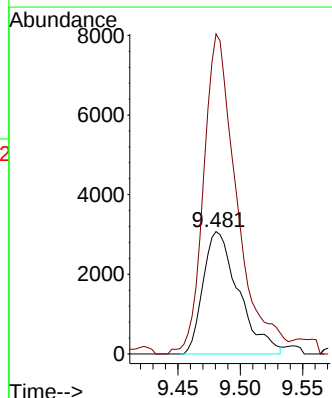
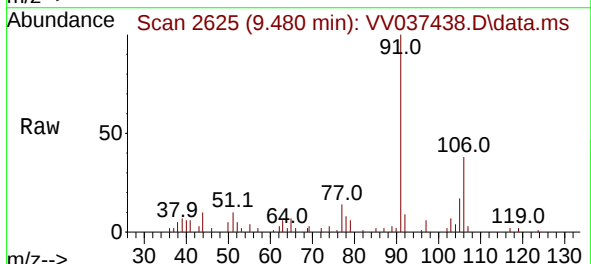
Acq: 20 Sep 2024 17:26

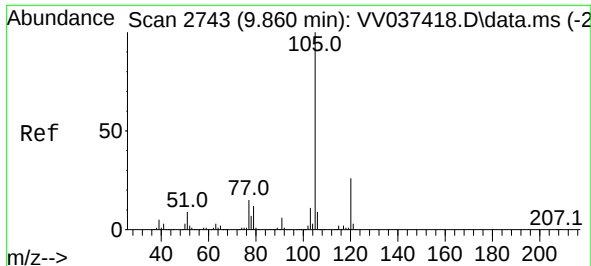
Tgt Ion:106 Resp: 6107

Ion Ratio Lower Upper

106 100

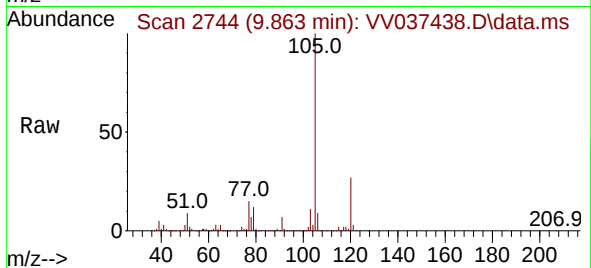
91 261.5 151.8 282.0



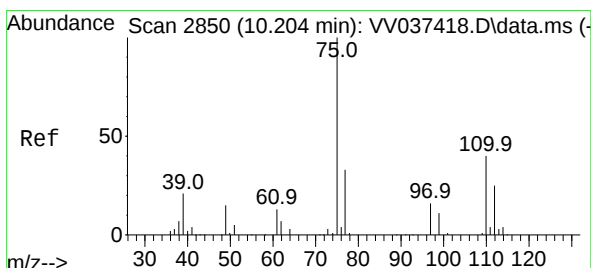
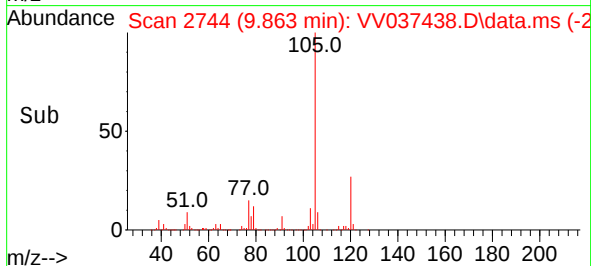
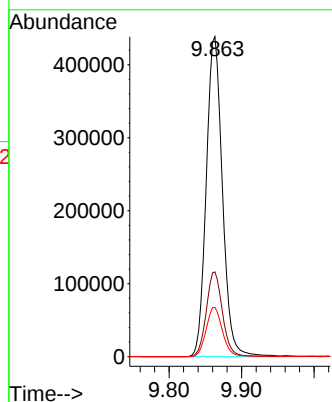


#60  
Isopropylbenzene  
Concen: 7.164 ug/L  
RT: 9.863 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

Instrument :  
MSVOA\_V  
ClientSampleId :

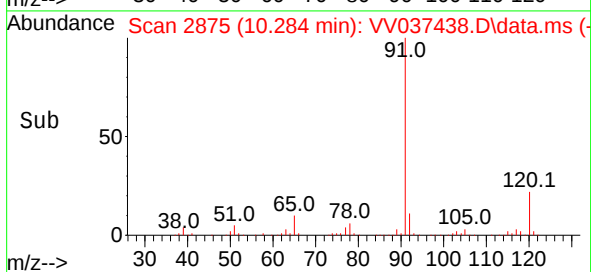
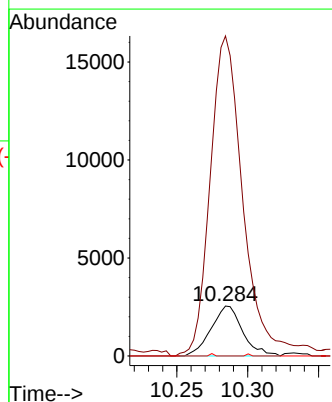
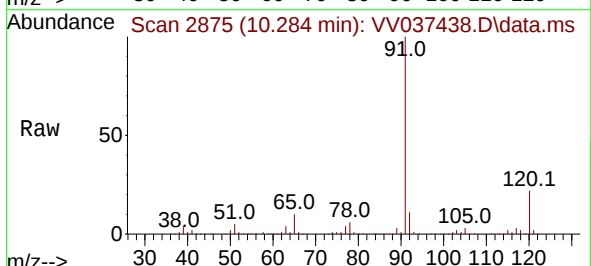


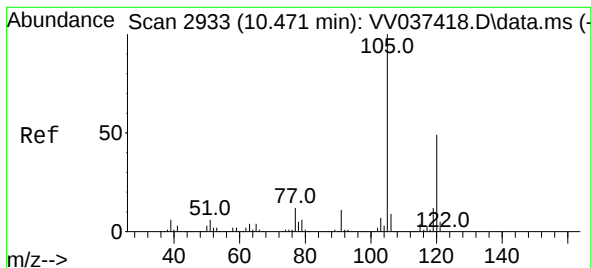
Tgt Ion:105 Resp: 679531  
Ion Ratio Lower Upper  
105 100  
120 26.5 20.2 30.4  
77 15.5 12.7 19.1



#61  
1,2,3-Trichloropropane  
Concen: 0.305 ug/L  
RT: 10.284 min Scan# 2875  
Delta R.T. 0.080 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

Tgt Ion: 75 Resp: 3939  
Ion Ratio Lower Upper  
75 100  
77 674.3 25.6 38.4#  
110 0.0 31.0 46.4#

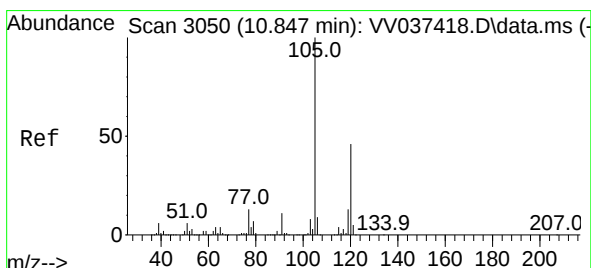
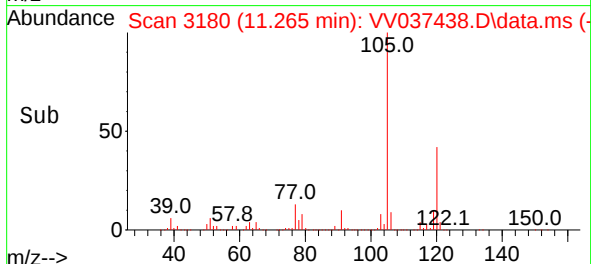
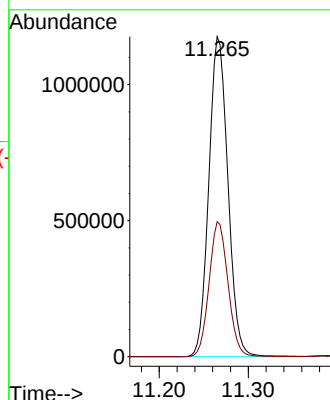
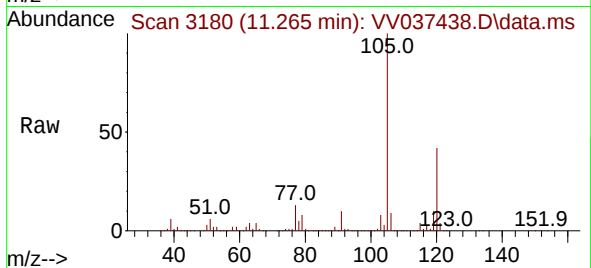




#62  
1,3,5-Trimethylbenzene  
Concen: 23.224 ug/L  
RT: 11.265 min Scan# 3180  
Delta R.T. 0.794 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

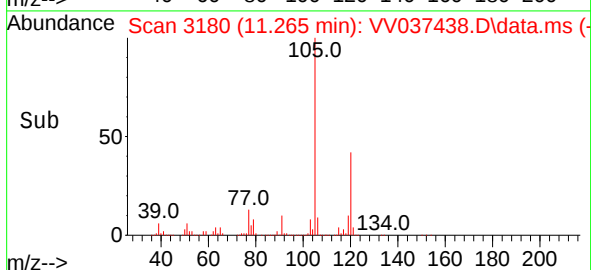
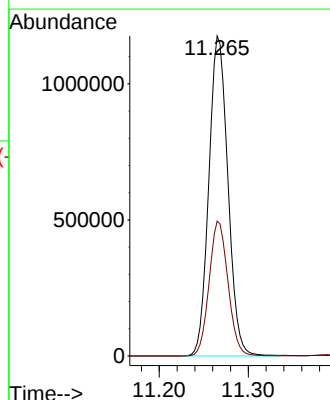
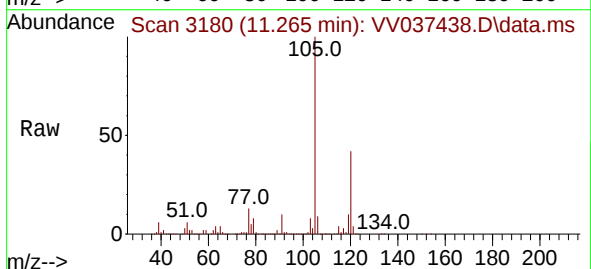
Instrument :  
MSVOA\_V  
ClientSampleId :

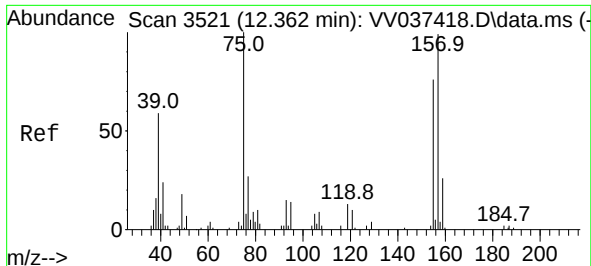
Tgt Ion:105 Resp: 1746816  
Ion Ratio Lower Upper  
105 100  
120 41.9 38.6 57.8



#63  
1,2,4-Trimethylbenzene  
Concen: 23.119 ug/L  
RT: 11.265 min Scan# 3180  
Delta R.T. 0.418 min  
Lab File: VV037438.D  
Acq: 20 Sep 2024 17:26

Tgt Ion:105 Resp: 1746816  
Ion Ratio Lower Upper  
105 100  
120 41.9 36.2 54.2





#68

1,2-Dibromo-3-chloropropane

Concen: 4.060 ug/L

RT: 12.345 min Scan# 3516

Delta R.T. -0.016 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

Instrument :

MSVOA\_V

ClientSampleId :

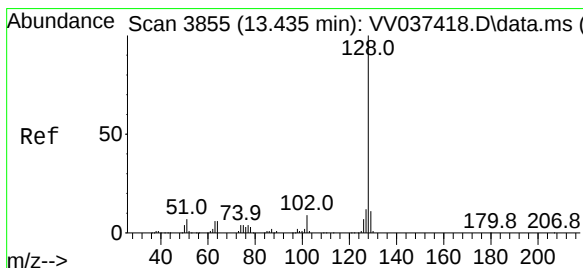
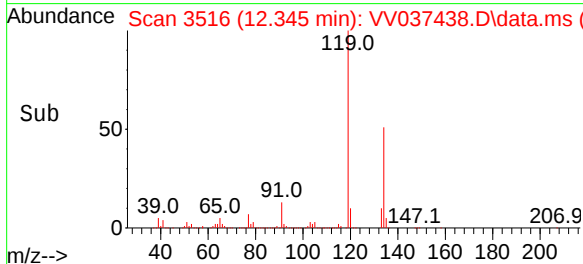
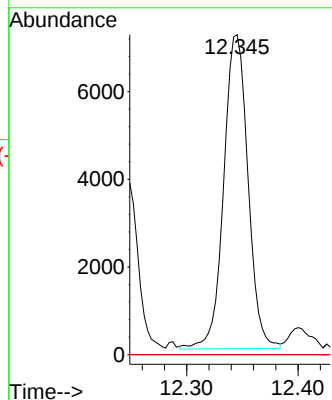
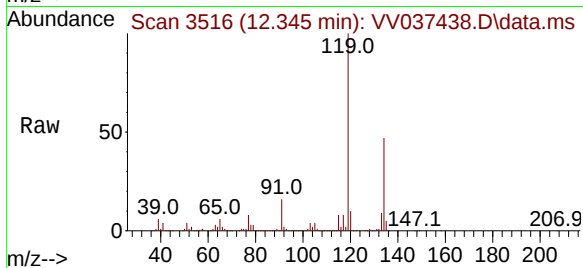
Tgt Ion: 75 Resp: 10857

Ion Ratio Lower Upper

75 100

155 0.0 60.6 90.8#

157 0.0 81.1 121.7#



#71

Naphthalene

Concen: 25.746 ug/L

RT: 13.432 min Scan# 3854

Delta R.T. -0.003 min

Lab File: VV037438.D

Acq: 20 Sep 2024 17:26

Tgt Ion: 128 Resp: 1035708

Ion Ratio Lower Upper

128 100

129 11.3 8.6 12.8

127 12.7 10.2 15.2

