

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW121921\  
 Data File : VW024089.D  
 Acq On : 19 Dec 2021 15:28  
 Operator : SY/MD  
 Sample : M5134-03MS  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GBBK3MS

Quant Time: Dec 20 01:37:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121021WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Dec 20 01:35:07 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.616  | 114   | 100356   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.853  | 117   | 107799   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249 | 152   | 63988    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.307  | 65    | 20512    | 3.802    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 76.000%  |
| 7) Chloroethane-d5            | 1.568  | 69    | 19089    | 4.241    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 84.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.111  | 63    | 51890    | 4.927    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 98.600%  |
| 20) 2-Butanone-d5             | 3.902  | 46    | 47524    | 45.088   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 90.180%  |
| 24) Chloroform-d              | 4.349  | 84    | 54857    | 4.489    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.034  | 65    | 25895    | 4.551    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.000%  |
| 32) Benzene-d6                | 5.053  | 84    | 95434    | 4.470    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.069  | 67    | 27413    | 4.256    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 85.200%  |
| 41) Toluene-d8                | 7.317  | 98    | 96777    | 5.035    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 100.600% |
| 43) trans-1,3-Dichloroprop... | 7.622  | 79    | 11632    | 4.353    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 87.000%  |
| 46) 2-Hexanone-d5             | 8.091  | 63    | 43209    | 36.119   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 72.240%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217 | 84    | 20768    | 3.886    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 77.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.622 | 152   | 40219    | 4.705    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127  | 85    | 41516    | 4.753    | ug/L   | 98       |
| 3) Chloromethane              | 1.240  | 50    | 35616    | 4.772    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.310  | 62    | 39643    | 4.897    | ug/L   | 100      |
| 6) Bromomethane               | 1.523  | 94    | 26141    | 5.082    | ug/L   | 99       |
| 8) Chloroethane               | 1.587  | 64    | 25952    | 4.927    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.754  | 101   | 74882    | 5.324    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.117  | 101   | 39046    | 5.271    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.121  | 96    | 35318    | 5.245    | ug/L   | 92       |
| 13) Acetone                   | 2.188  | 43    | 64933    | 77.002   | ug/L   | 85       |
| 14) Carbon disulfide          | 2.294  | 76    | 85126    | 4.359    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.439  | 43    | 9637     | 4.715    | ug/L # | 89       |
| 16) Methylene chloride        | 2.506  | 84    | 38287    | 4.347    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 2.767  | 73    | 81508    | 5.353    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 2.760  | 96    | 37050    | 4.971    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.191  | 63    | 68181    | 5.097    | ug/L   | 97       |
| 21) 2-Butanone                | 3.982  | 43    | 78783    | 65.388   | ug/L   | 94       |
| 22) cis-1,2-Dichloroethene    | 3.912  | 96    | 41233    | 5.226    | ug/L   | 95       |
| 23) Bromochloromethane        | 4.249  | 128   | 19144    | 5.340    | ug/L   | 90       |
| 25) Chloroform                | 4.375  | 83    | 79079    | 5.318    | ug/L   | 99       |

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 Sample : M5134-03MS  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GBBK3MS

Quant Time: Dec 20 01:37:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121021WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Dec 20 01:35:07 2021  
 Response via : Initial Calibration

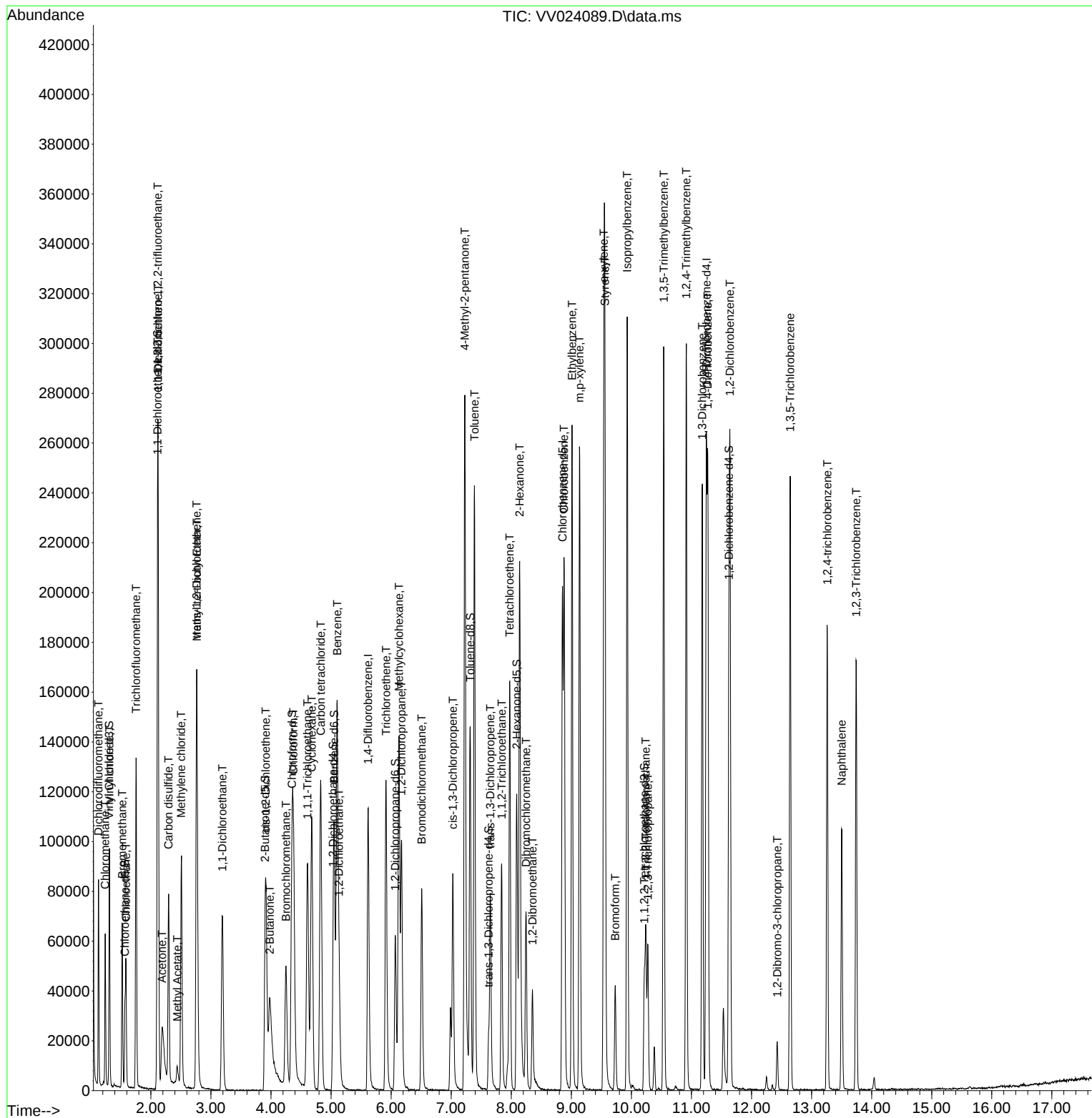
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.133  | 62   | 44550    | 5.530  | ug/L  | 95       |
| 29) 1,1,1-Trichloroethane     | 4.609  | 97   | 73295    | 5.197  | ug/L  | 99       |
| 30) Cyclohexane               | 4.677  | 56   | 55475    | 4.959  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.828  | 117  | 92515    | 6.978  | ug/L  | 99       |
| 33) Benzene                   | 5.101  | 78   | 154810   | 5.076  | ug/L  | 100      |
| 34) Trichloroethene           | 5.915  | 95   | 41779    | 4.857  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.130  | 83   | 58257    | 4.602  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.172  | 63   | 38033    | 5.247  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.509  | 83   | 53709    | 5.231  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 7.027  | 75   | 51127    | 4.752  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.226  | 43   | 193827   | 55.668 | ug/L  | 98       |
| 42) Toluene                   | 7.387  | 91   | 176349   | 5.138  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.651  | 75   | 44956    | 4.834  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.841  | 97   | 28265    | 5.271  | ug/L  | 99       |
| 47) Tetrachloroethene         | 7.976  | 164  | 36506    | 4.821  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.140  | 43   | 139852   | 55.395 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.246  | 129  | 36106    | 4.949  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.352  | 107  | 25110    | 5.044  | ug/L  | 90       |
| 51) Chlorobenzene             | 8.879  | 112  | 113509   | 4.948  | ug/L  | 98       |
| 52) Ethylbenzene              | 9.011  | 91   | 182790   | 5.048  | ug/L  | 98       |
| 53) m,p-xylene                | 9.136  | 106  | 73844    | 5.156  | ug/L  | 95       |
| 54) o-xylene                  | 9.542  | 106  | 70848    | 5.116  | ug/L  | 98       |
| 55) Styrene                   | 9.561  | 104  | 122534   | 5.315  | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.239 | 83   | 28742    | 4.895  | ug/L  | 98       |
| 59) Bromoform                 | 9.731  | 173  | 19533    | 4.756  | ug/L  | 97       |
| 60) Isopropylbenzene          | 9.931  | 105  | 193790   | 5.158  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.275 | 75   | 22041    | 5.056  | ug/L  | 96       |
| 62) 1,3,5-Trimethylbenzene    | 10.538 | 105  | 157912   | 5.067  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.914 | 105  | 159333   | 5.132  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.181 | 146  | 99446    | 5.176  | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.271 | 146  | 98698    | 5.114  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.641 | 146  | 93396    | 5.306  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.429 | 75   | 4693     | 4.929  | ug/L  | 90       |
| 69) 1,3,5-Trichlorobenzene    | 12.644 | 180  | 77970    | 4.934  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.262 | 180  | 59615    | 4.803  | ug/L  | 99       |
| 71) Naphthalene               | 13.503 | 128  | 83585    | 4.685  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.744 | 180  | 52001    | 4.745  | ug/L  | 98       |

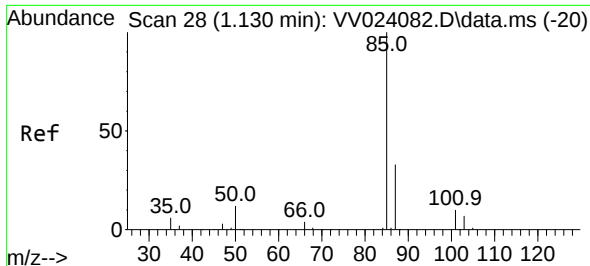
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Sample : M5134-03MS  
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 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Dec 20 01:35:07 2021  
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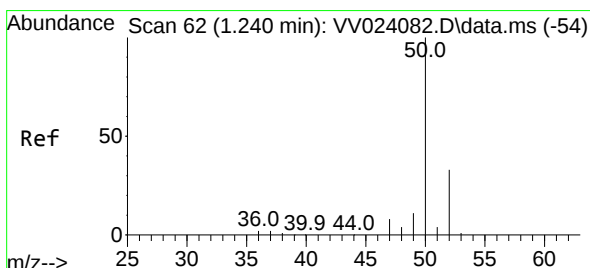
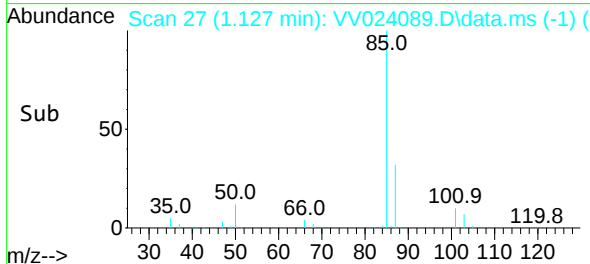
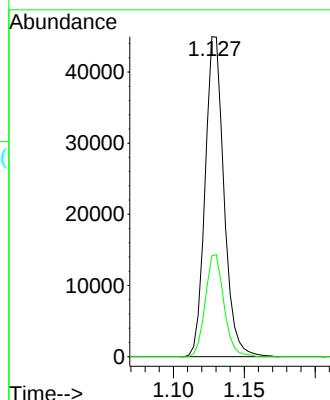
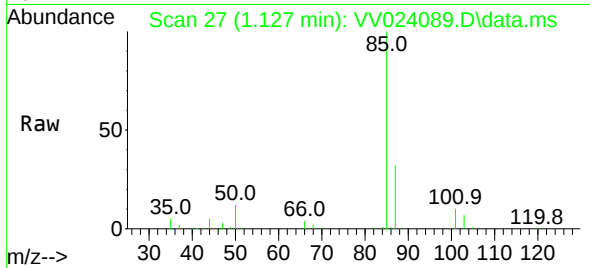




#2  
 Dichlorodifluoromethane  
 Concen: 4.753 ug/L  
 RT: 1.127 min Scan# 21  
 Delta R.T. -0.003 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

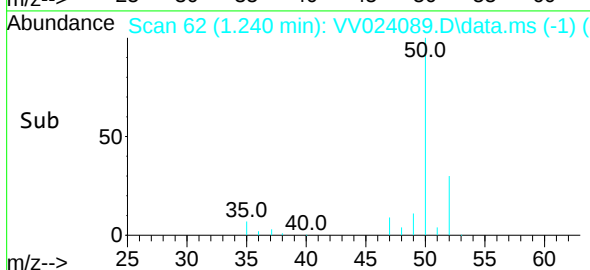
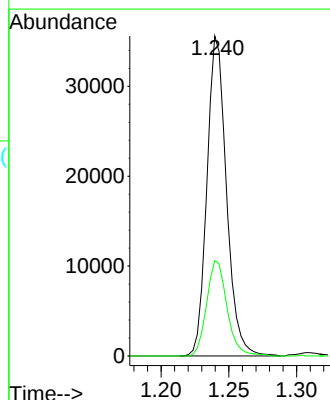
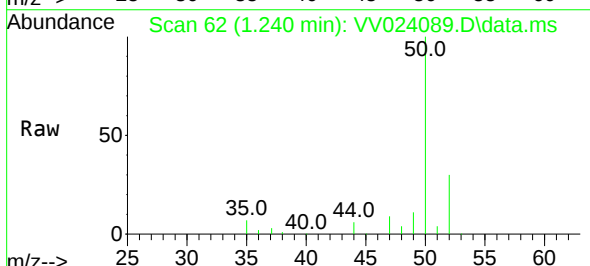
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
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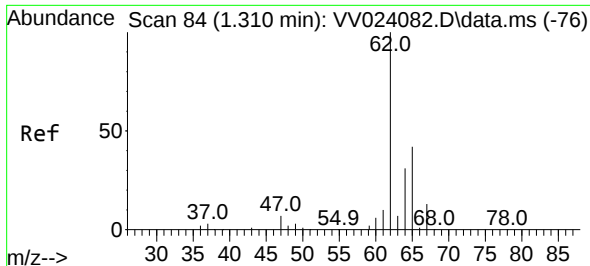
Tgt Ion: 85 Resp: 41516  
 Ion Ratio Lower Upper  
 85 100  
 87 31.5 26.0 39.0



#3  
 Chloromethane  
 Concen: 4.772 ug/L  
 RT: 1.240 min Scan# 62  
 Delta R.T. 0.000 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

Tgt Ion: 50 Resp: 35616  
 Ion Ratio Lower Upper  
 50 100  
 52 29.8 22.0 41.0

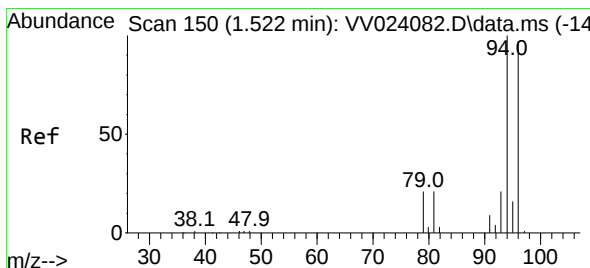
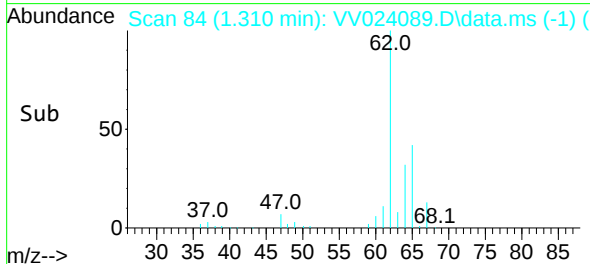
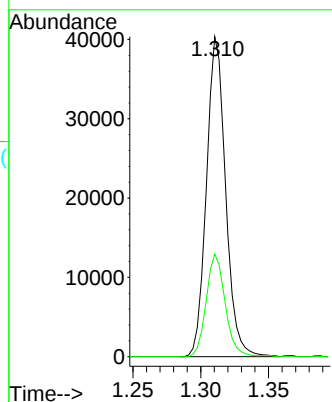
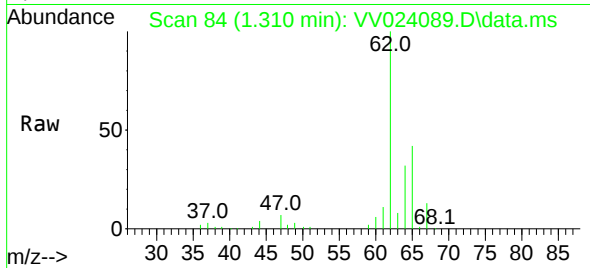




#5  
 Vinyl chloride  
 Concen: 4.897 ug/L  
 RT: 1.310 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

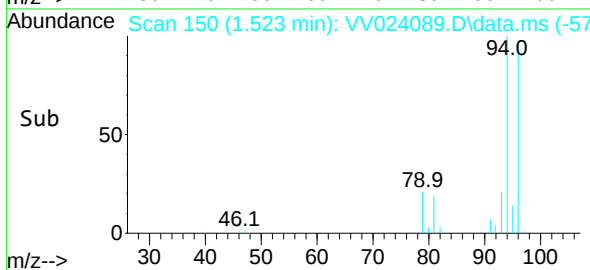
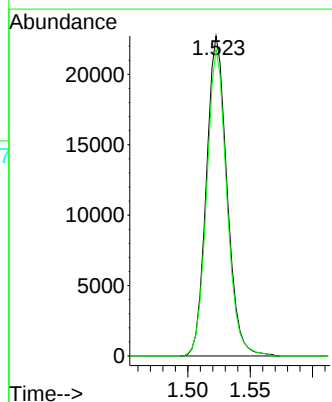
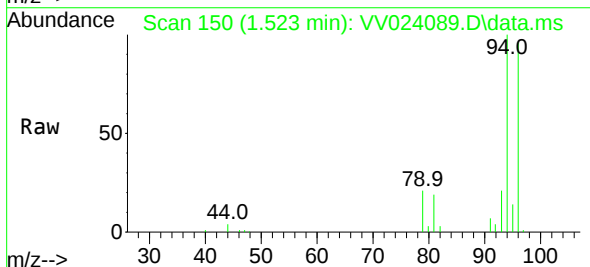
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GBBK3MS

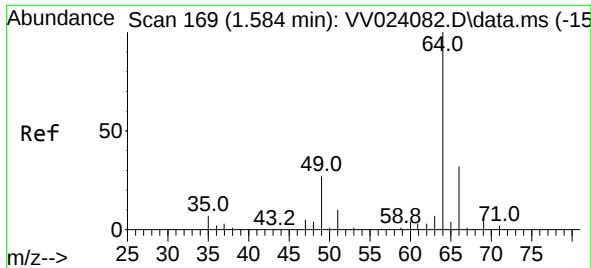
Tgt Ion: 62 Resp: 39643  
 Ion Ratio Lower Upper  
 62 100  
 64 32.1 22.4 41.6



#6  
 Bromomethane  
 Concen: 5.082 ug/L  
 RT: 1.523 min Scan# 150  
 Delta R.T. 0.000 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

Tgt Ion: 94 Resp: 26141  
 Ion Ratio Lower Upper  
 94 100  
 96 95.7 66.2 123.0





#8

Chloroethane

Concen: 4.927 ug/L

RT: 1.587 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

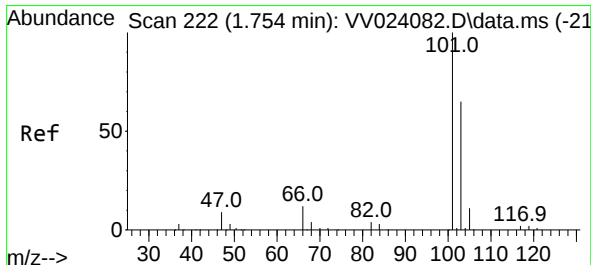
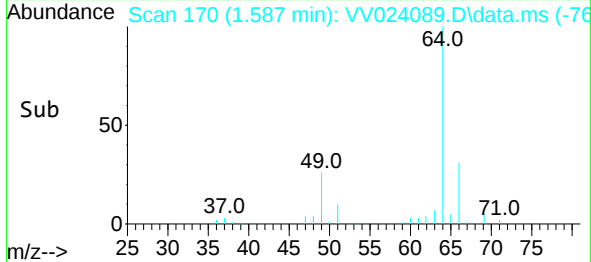
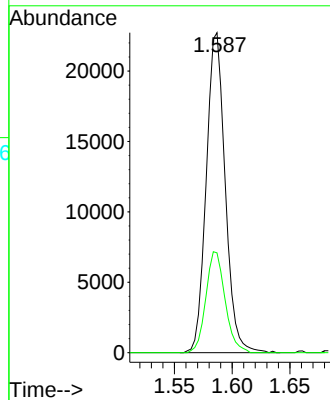
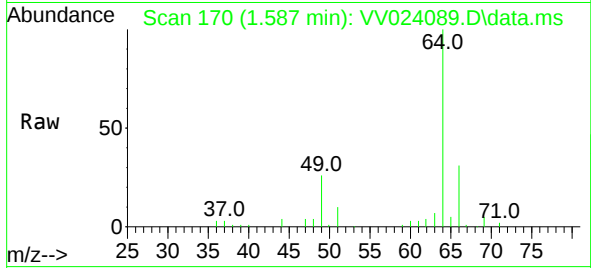
GBBK3MS

Tgt Ion: 64 Resp: 25952

Ion Ratio Lower Upper

64 100

66 31.2 21.4 39.8



#9

Trichlorofluoromethane

Concen: 5.324 ug/L

RT: 1.754 min Scan# 222

Delta R.T. 0.000 min

Lab File: VV024089.D

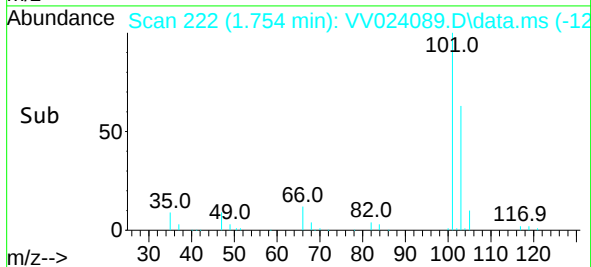
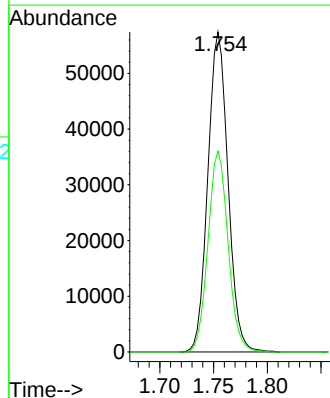
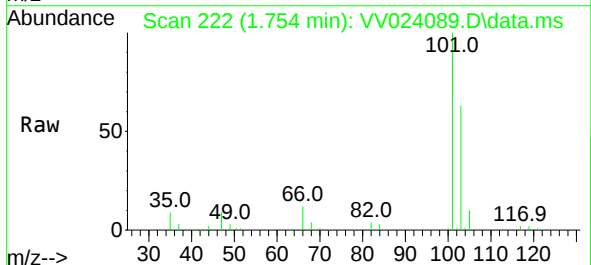
Acq: 19 Dec 2021 15:28

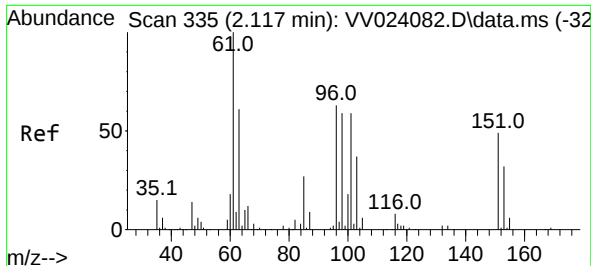
Tgt Ion:101 Resp: 74882

Ion Ratio Lower Upper

101 100

103 62.7 51.6 77.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.271 ug/L

RT: 2.117 min Scan# 335

Delta R.T. 0.000 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

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ClientSampleId :

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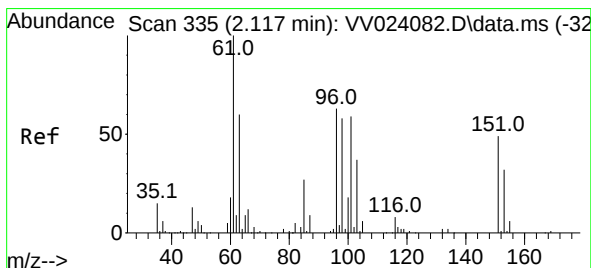
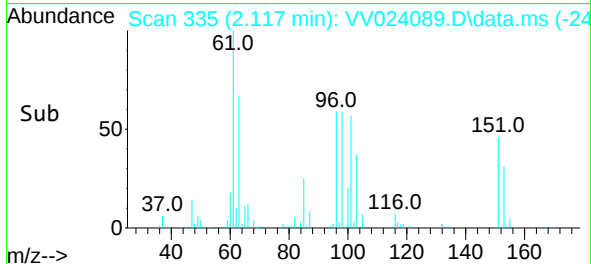
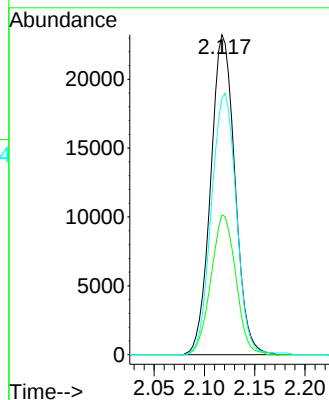
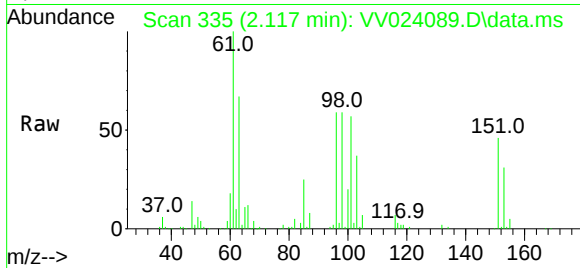
Tgt Ion:101 Resp: 39046

Ion Ratio Lower Upper

101 100

85 44.5 36.0 54.0

151 83.8 66.4 99.6



#12

1,1-Dichloroethene

Concen: 5.245 ug/L

RT: 2.121 min Scan# 336

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

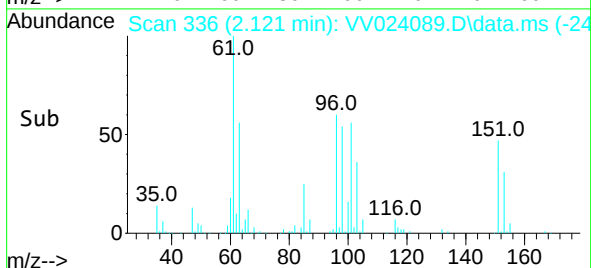
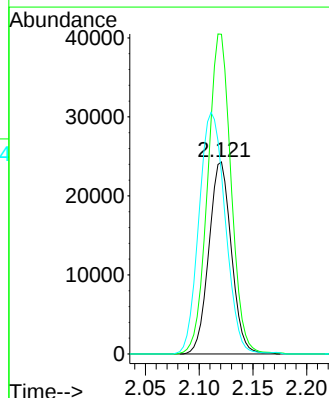
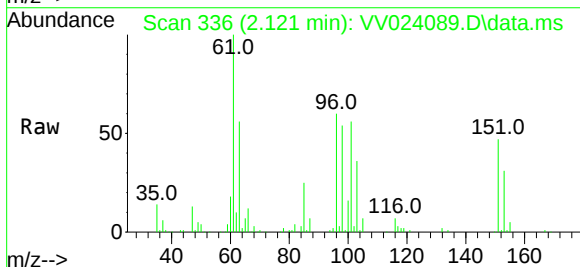
Tgt Ion: 96 Resp: 35318

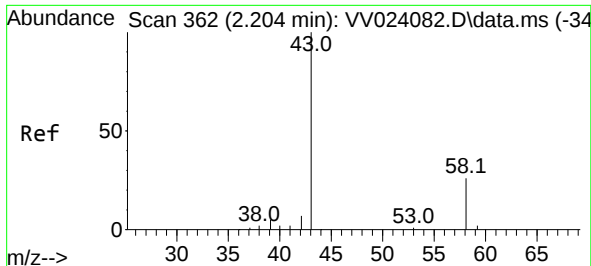
Ion Ratio Lower Upper

96 100

61 166.5 116.1 215.5

63 93.8 79.4 147.4





#13

Acetone

Concen: 77.002 ug/L

RT: 2.188 min Scan# 31

Delta R.T. -0.016 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

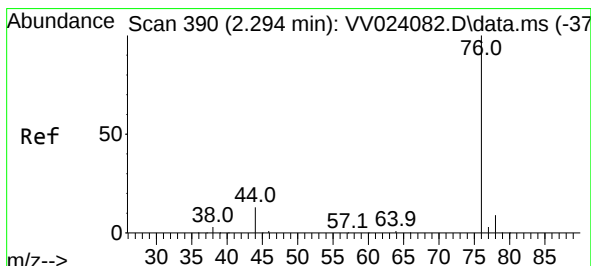
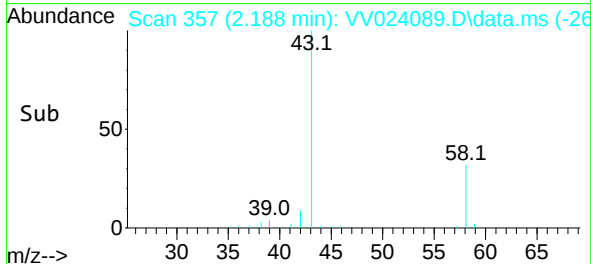
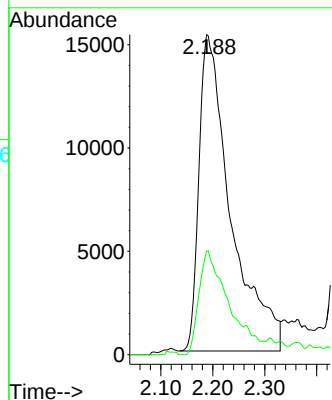
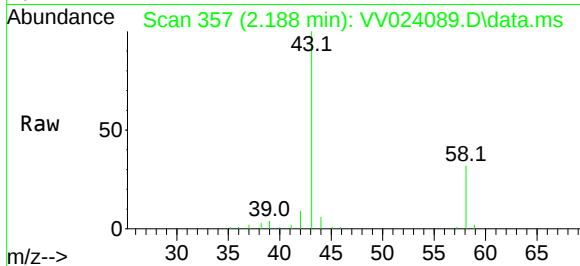
GBBK3MS

Tgt Ion: 43 Resp: 64933

Ion Ratio Lower Upper

43 100

58 27.8 0.0 41.4



#14

Carbon disulfide

Concen: 4.359 ug/L

RT: 2.294 min Scan# 390

Delta R.T. 0.000 min

Lab File: VV024089.D

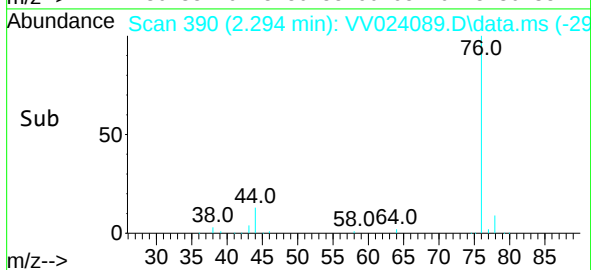
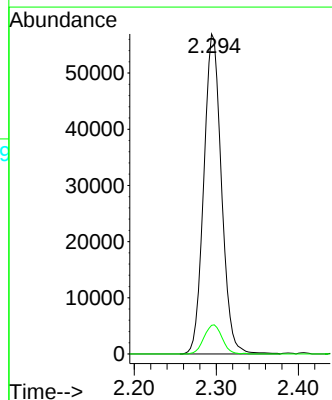
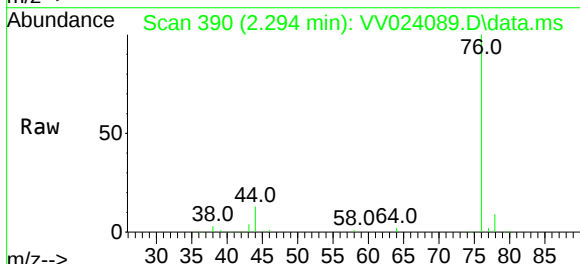
Acq: 19 Dec 2021 15:28

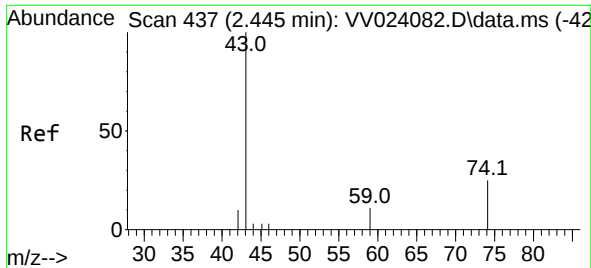
Tgt Ion: 76 Resp: 85126

Ion Ratio Lower Upper

76 100

78 8.9 7.5 11.3





#15

Methyl Acetate

Concen: 4.715 ug/L

RT: 2.439 min Scan# 41

Delta R.T. -0.006 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

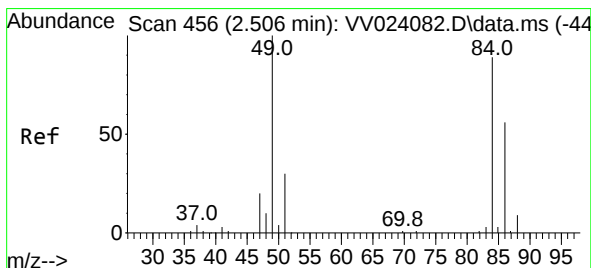
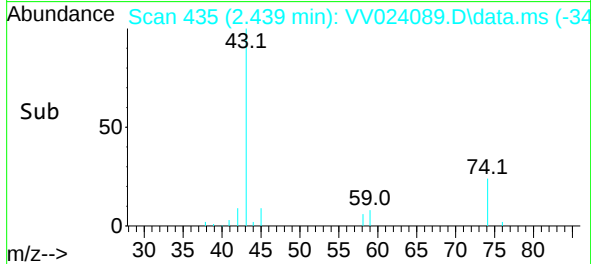
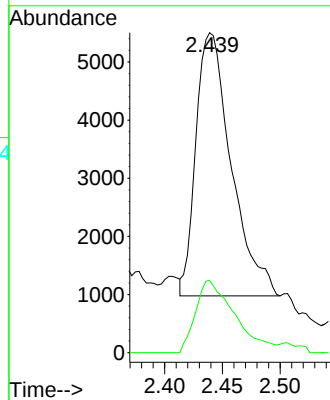
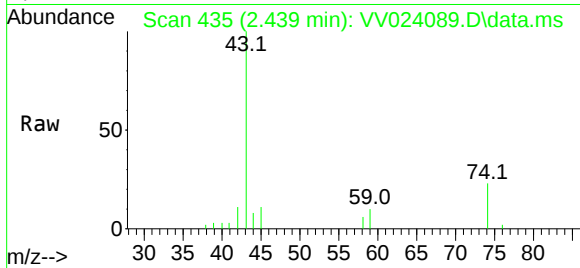
GBBK3MS

Tgt Ion: 43 Resp: 9637

Ion Ratio Lower Upper

43 100

74 30.5 20.2 30.2#



#16

Methylene chloride

Concen: 4.347 ug/L

RT: 2.506 min Scan# 456

Delta R.T. 0.000 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

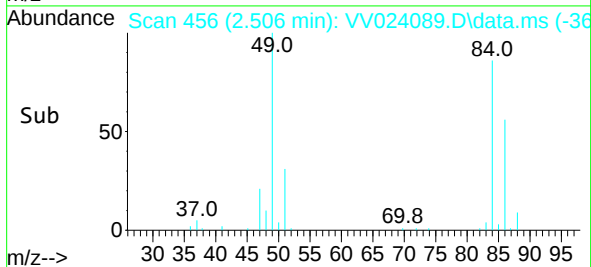
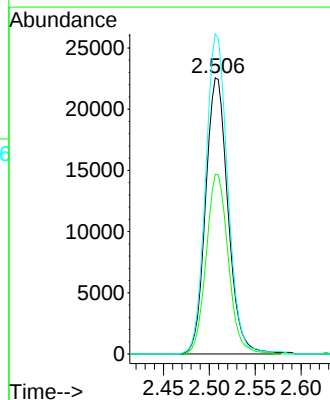
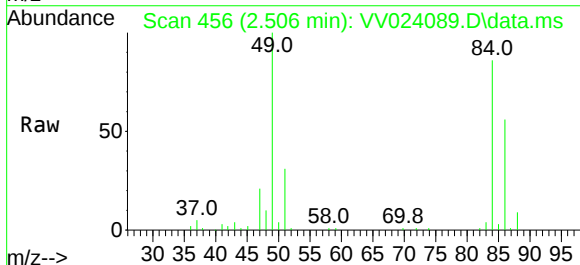
Tgt Ion: 84 Resp: 38287

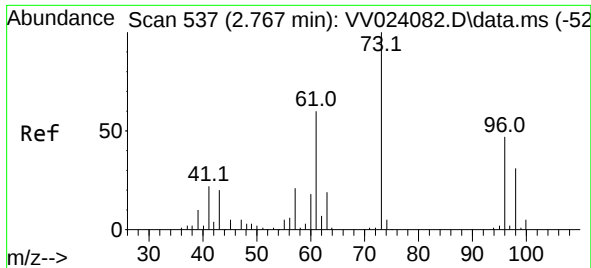
Ion Ratio Lower Upper

84 100

86 65.0 42.6 79.0

49 115.9 79.7 147.9

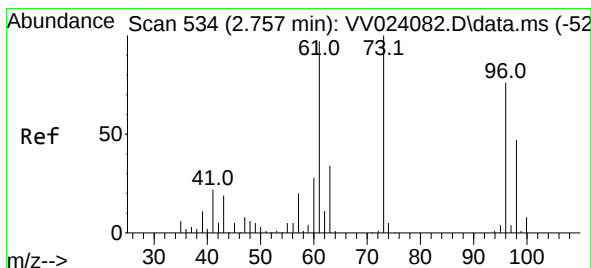
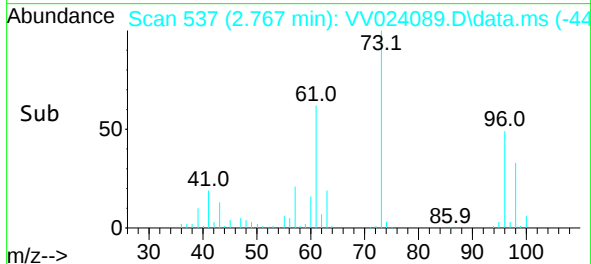
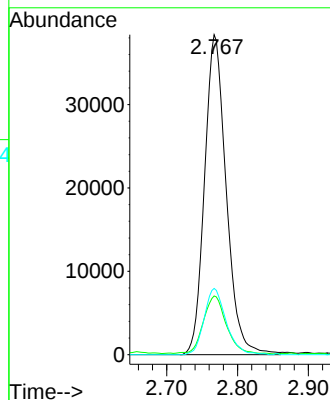
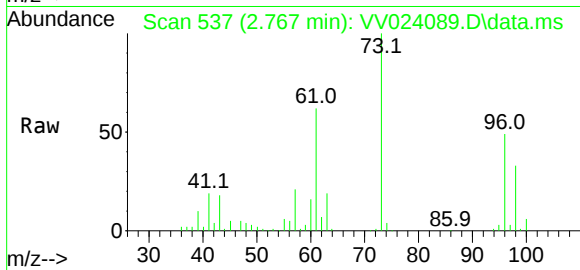




#17  
Methyl tert-butyl Ether  
Concen: 5.353 ug/L  
RT: 2.767 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

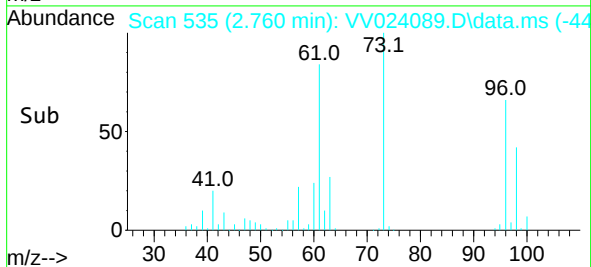
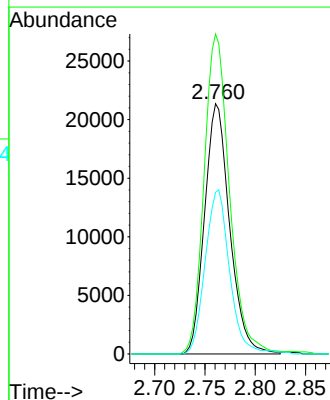
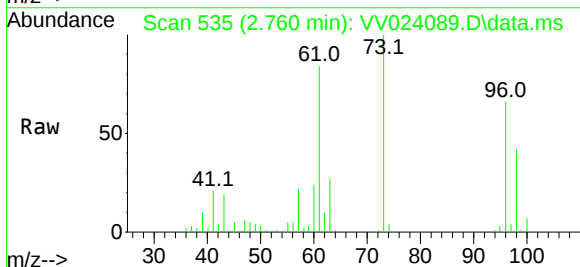
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

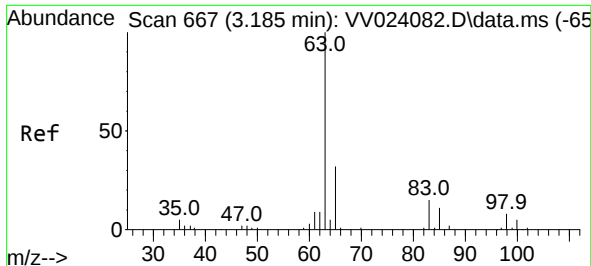
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 73 | Resp: | 81508       |
| Ion         | Ratio | Lower Upper |
| 73          | 100   |             |
| 43          | 18.6  | 15.5 23.3   |
| 57          | 21.0  | 17.1 25.7   |



#18  
trans-1,2-Dichloroethene  
Concen: 4.971 ug/L  
RT: 2.760 min Scan# 535  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 96 | Resp: | 37050       |
| Ion         | Ratio | Lower Upper |
| 96          | 100   |             |
| 61          | 127.9 | 88.2 163.8  |
| 98          | 64.6  | 44.9 83.5   |





#19

1,1-Dichloroethane

Concen: 5.097 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.006 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

GBBK3MS

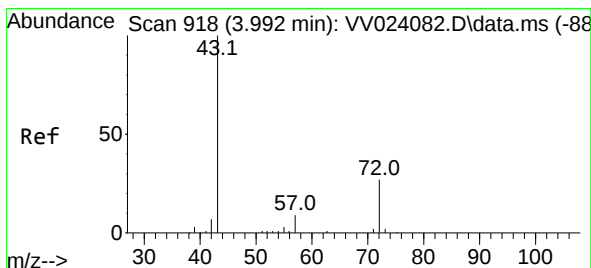
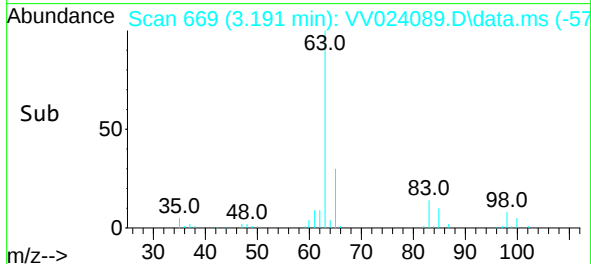
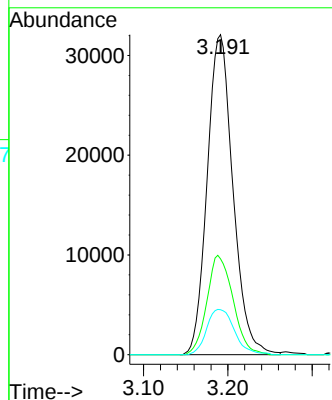
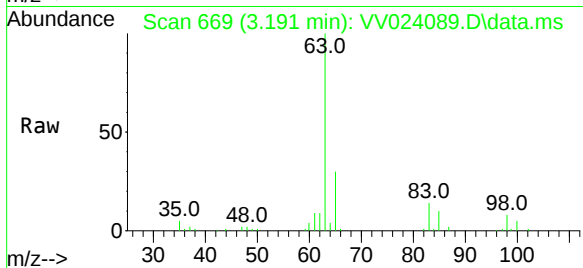
Tgt Ion: 63 Resp: 68181

Ion Ratio Lower Upper

63 100

65 29.9 22.3 41.3

83 14.0 10.7 19.9



#21

2-Butanone

Concen: 65.388 ug/L

RT: 3.982 min Scan# 915

Delta R.T. -0.010 min

Lab File: VV024089.D

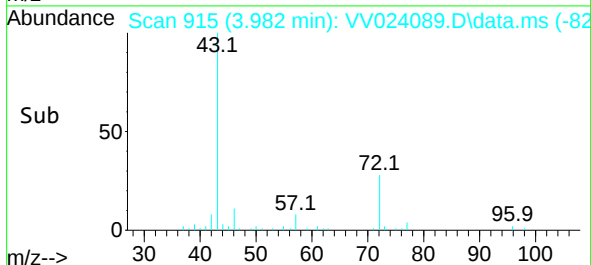
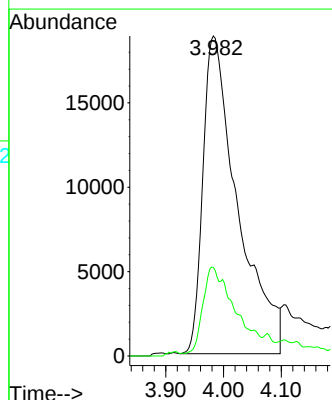
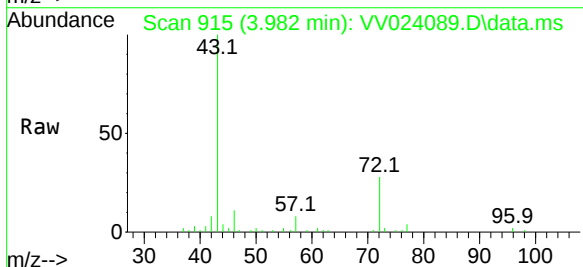
Acq: 19 Dec 2021 15:28

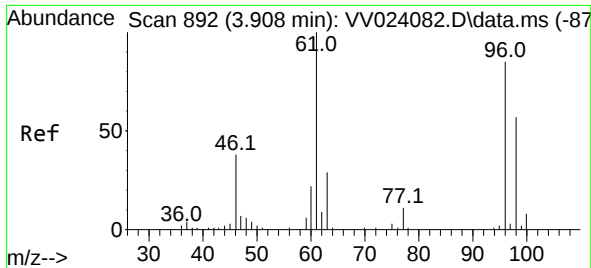
Tgt Ion: 43 Resp: 78783

Ion Ratio Lower Upper

43 100

72 24.8 11.1 33.1

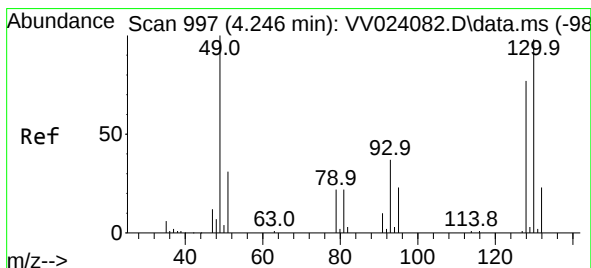
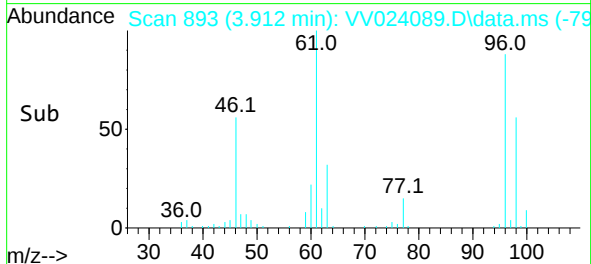
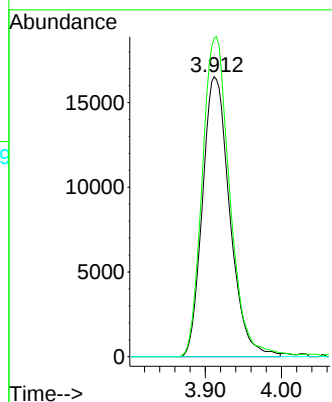
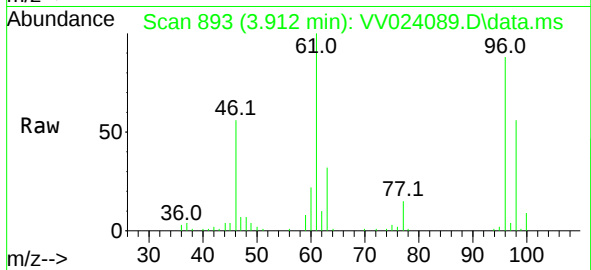




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.226 ug/L  
 RT: 3.912 min Scan# 892  
 Delta R.T. 0.003 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

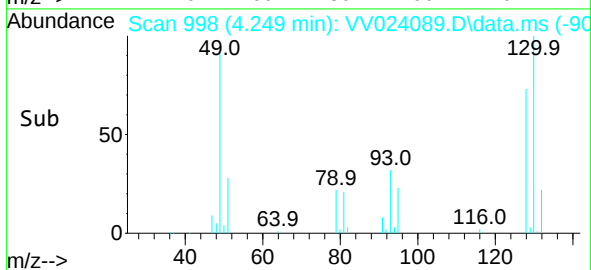
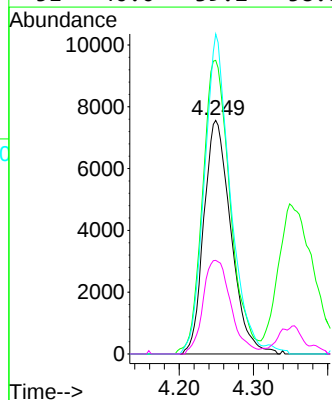
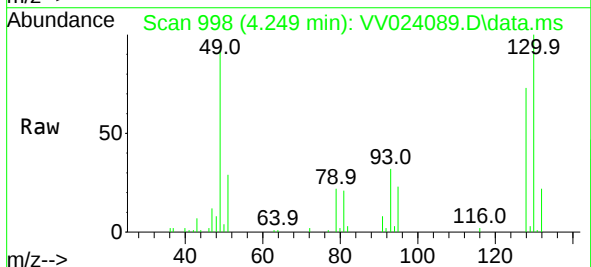
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GBBK3MS

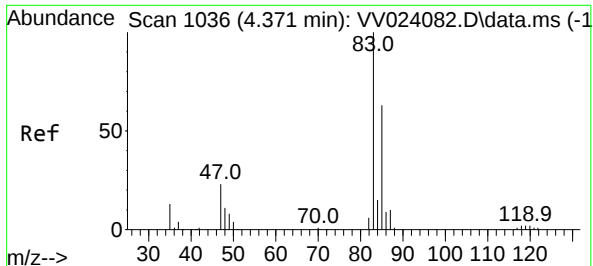
Tgt Ion: 96 Resp: 41233  
 Ion Ratio Lower Upper  
 96 100  
 61 113.8 83.4 154.8  
 68 0.0 0.0 0.0



#23  
 Bromochloromethane  
 Concen: 5.340 ug/L  
 RT: 4.249 min Scan# 998  
 Delta R.T. 0.003 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

Tgt Ion: 128 Resp: 19144  
 Ion Ratio Lower Upper  
 128 100  
 49 125.7 100.2 186.2  
 130 137.0 92.5 171.7  
 51 40.0 39.2 58.8

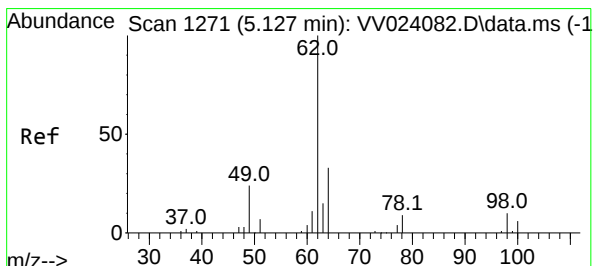
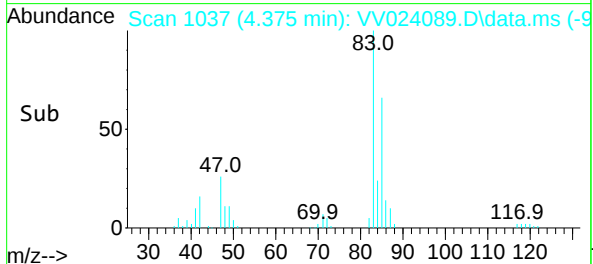
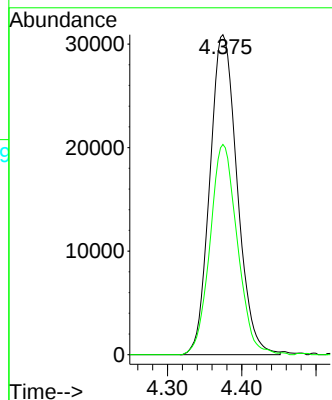
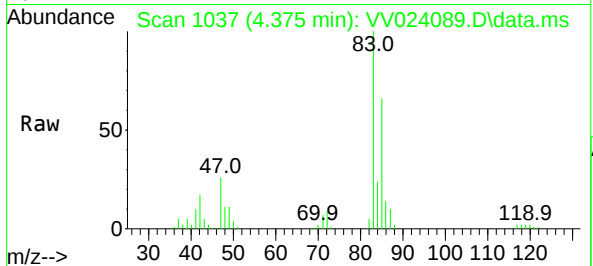




#25  
Chloroform  
Concen: 5.318 ug/L  
RT: 4.375 min Scan# 1036  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

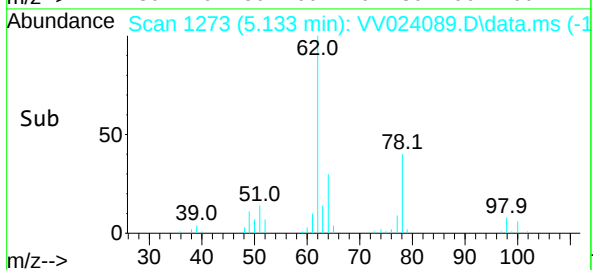
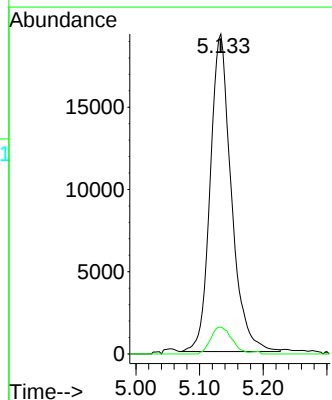
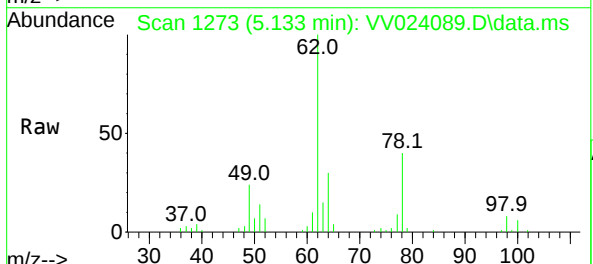
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

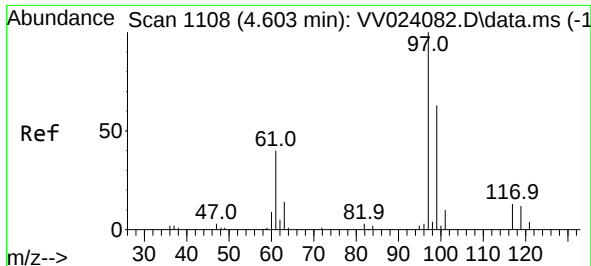
Tgt Ion: 83 Resp: 79079  
Ion Ratio Lower Upper  
83 100  
85 65.7 45.2 84.0



#27  
1,2-Dichloroethane  
Concen: 5.530 ug/L  
RT: 5.133 min Scan# 1273  
Delta R.T. 0.007 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion: 62 Resp: 44550  
Ion Ratio Lower Upper  
62 100  
98 8.4 8.1 12.1





#29

1,1,1-Trichloroethane

Concen: 5.197 ug/L

RT: 4.609 min Scan# 1108

Delta R.T. 0.006 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

GBBK3MS

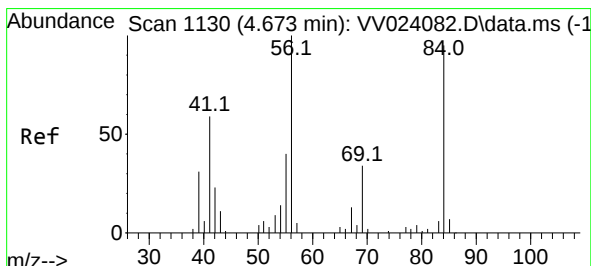
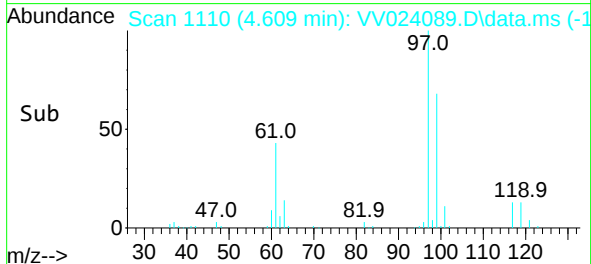
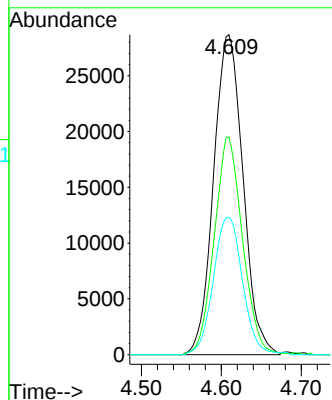
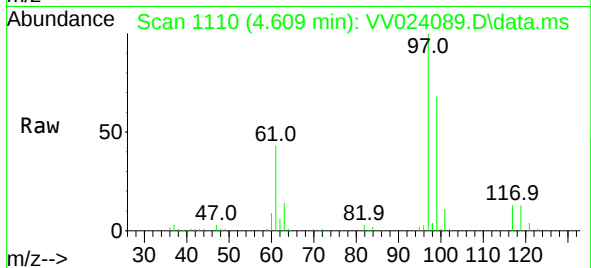
Tgt Ion: 97 Resp: 73295

Ion Ratio Lower Upper

97 100

99 65.3 51.9 77.9

61 42.7 33.2 49.8



#30

Cyclohexane

Concen: 4.959 ug/L

RT: 4.677 min Scan# 1131

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

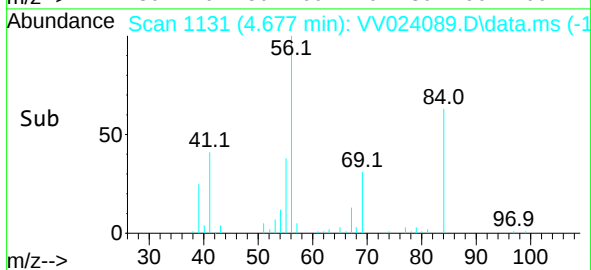
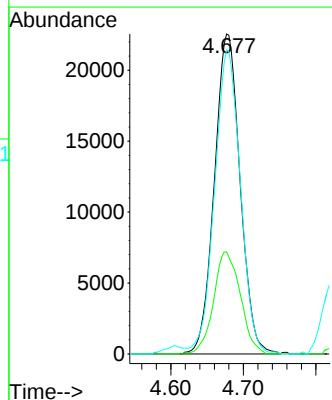
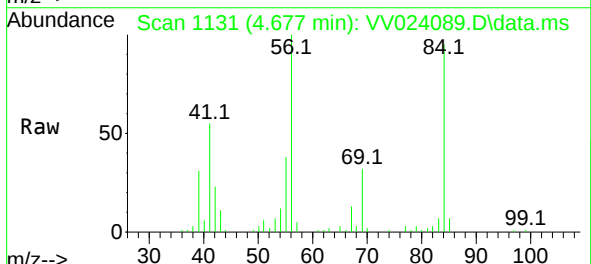
Tgt Ion: 56 Resp: 55475

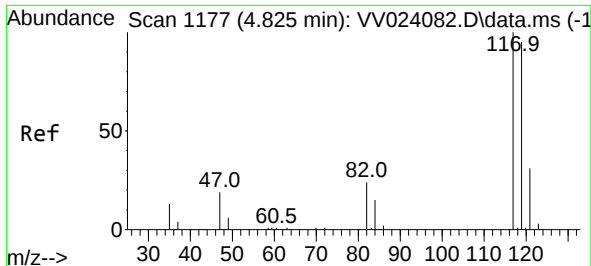
Ion Ratio Lower Upper

56 100

69 33.3 24.8 37.2

84 94.3 75.9 113.9

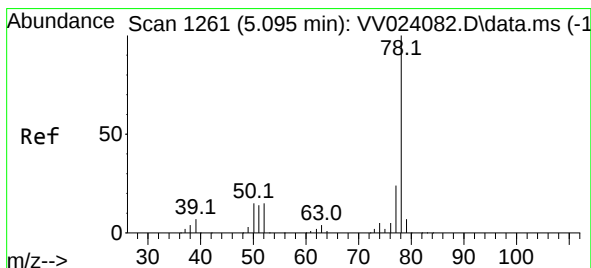
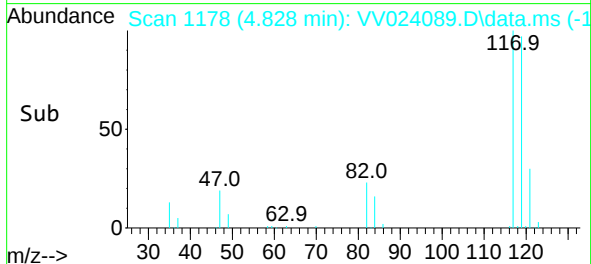
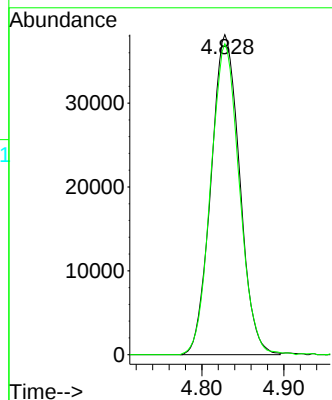
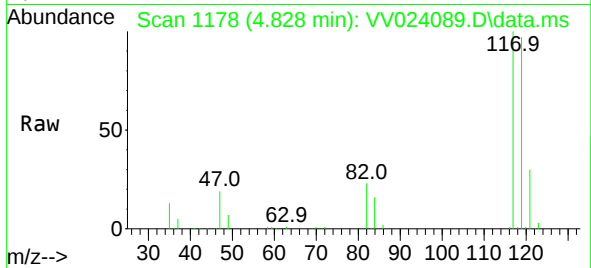




#31  
Carbon tetrachloride  
Concen: 6.978 ug/L  
RT: 4.828 min Scan# 1177  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

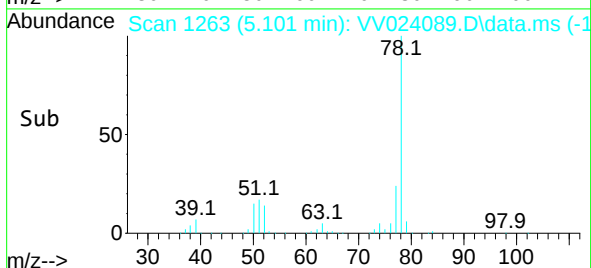
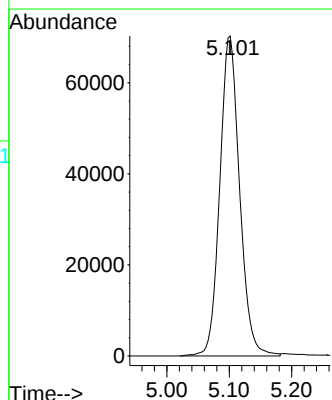
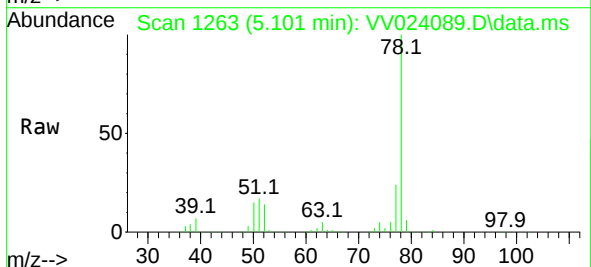
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

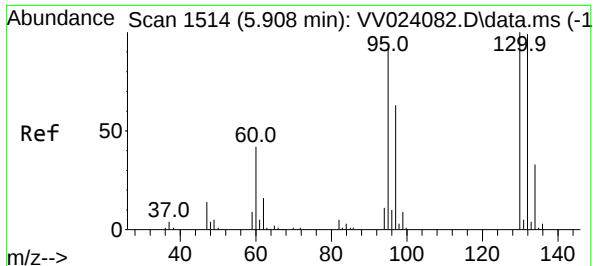
Tgt Ion:117 Resp: 92515  
Ion Ratio Lower Upper  
117 100  
119 97.0 76.6 114.8



#33  
Benzene  
Concen: 5.076 ug/L  
RT: 5.101 min Scan# 1263  
Delta R.T. 0.006 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion: 78 Resp: 154810

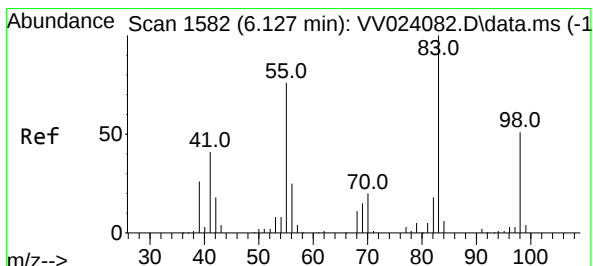
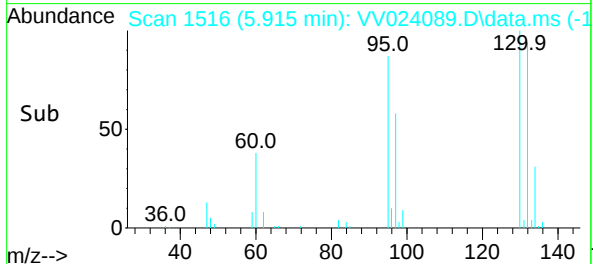
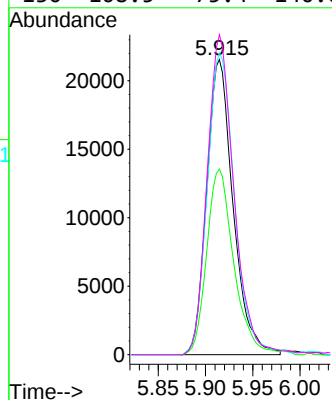
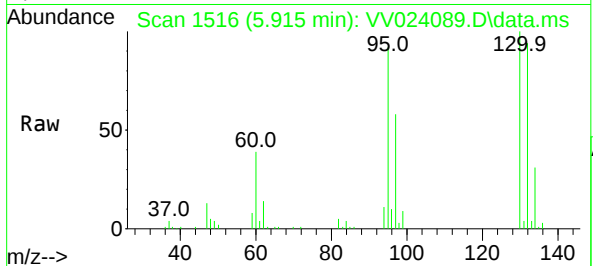




#34  
Trichloroethene  
Concen: 4.857 ug/L  
RT: 5.915 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

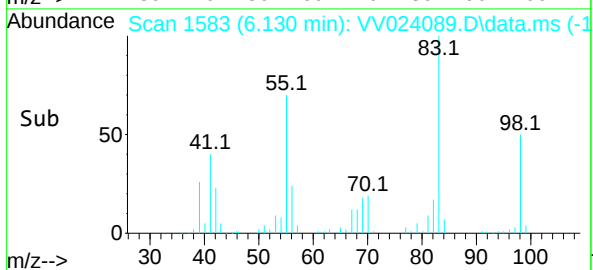
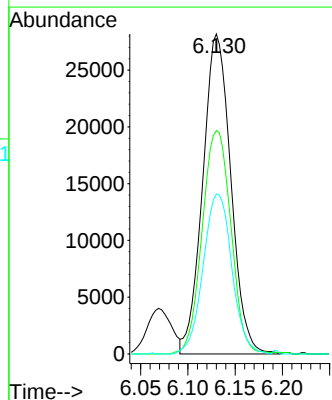
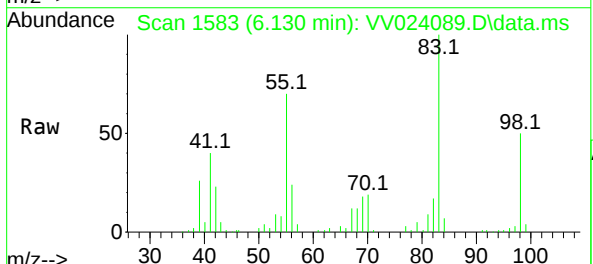
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

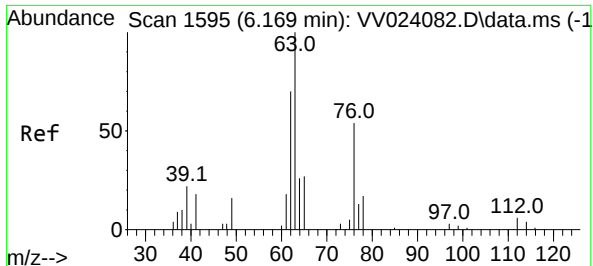
Tgt Ion: 95 Resp: 41779  
Ion Ratio Lower Upper  
95 100  
97 62.9 45.2 84.0  
132 102.3 76.1 141.3  
130 108.5 75.4 140.0



#35  
Methylcyclohexane  
Concen: 4.602 ug/L  
RT: 6.130 min Scan# 1583  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion: 83 Resp: 58257  
Ion Ratio Lower Upper  
83 100  
55 71.4 60.2 90.2  
98 51.1 41.0 61.4





#37

1,2-Dichloropropane

Concen: 5.247 ug/L

RT: 6.172 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

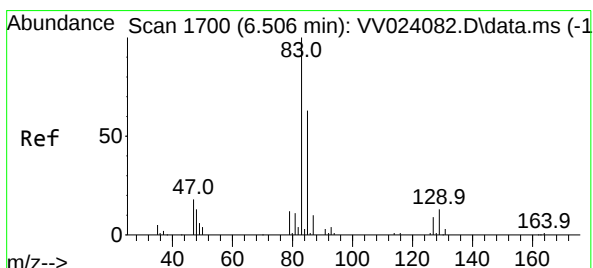
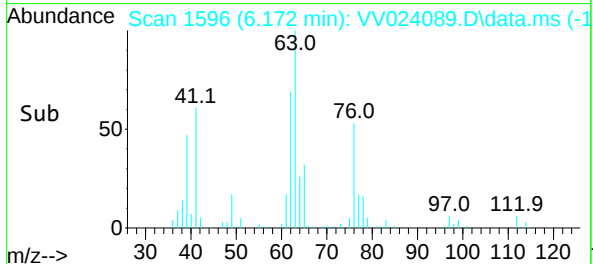
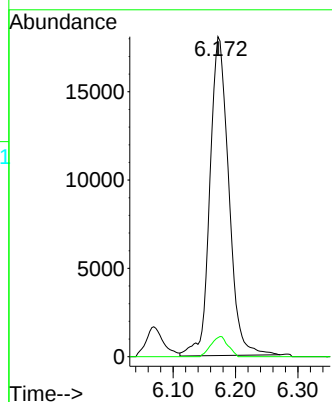
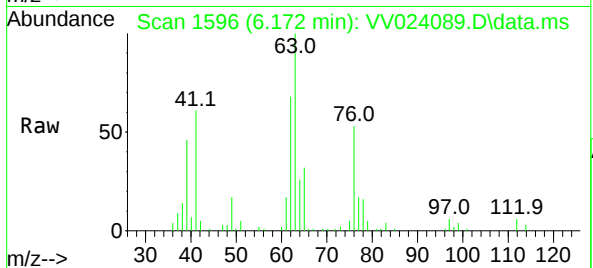
GBBK3MS

Tgt Ion: 63 Resp: 38033

Ion Ratio Lower Upper

63 100

112 5.7 4.3 6.5



#38

Bromodichloromethane

Concen: 5.231 ug/L

RT: 6.509 min Scan# 1701

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

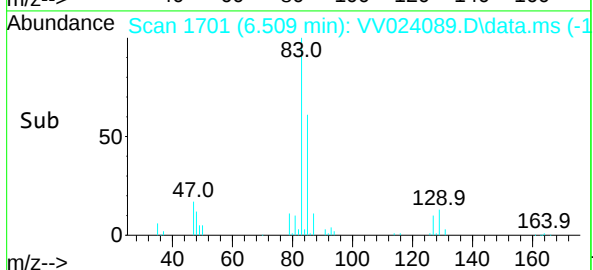
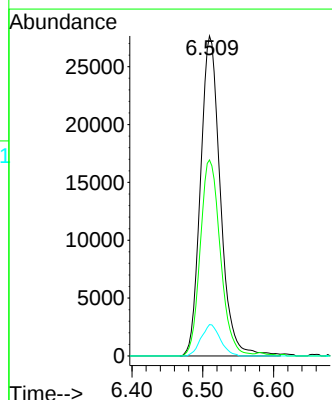
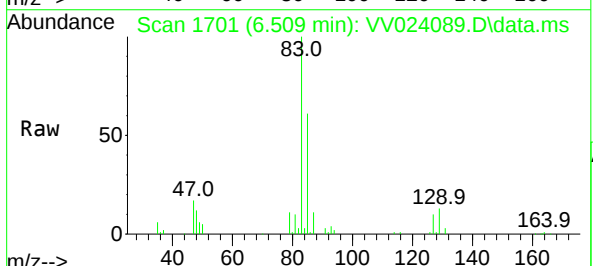
Tgt Ion: 83 Resp: 53709

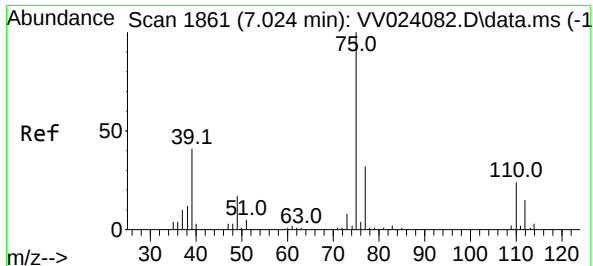
Ion Ratio Lower Upper

83 100

85 61.2 44.0 81.8

127 9.8 8.6 12.8





#39

cis-1,3-Dichloropropene

Concen: 4.752 ug/L

RT: 7.027 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

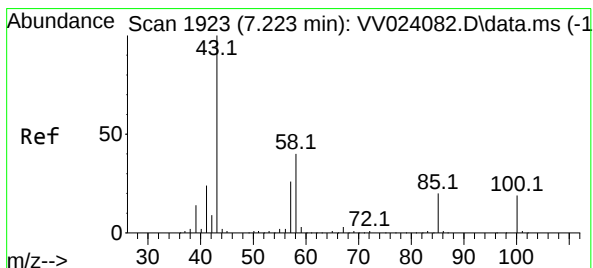
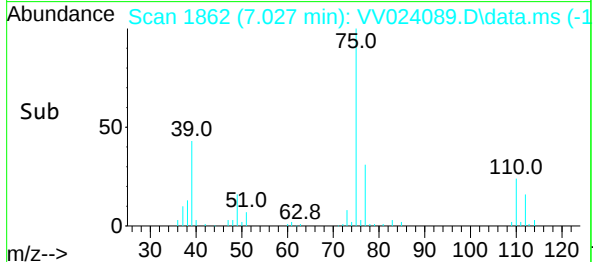
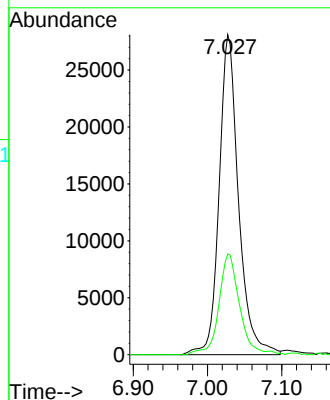
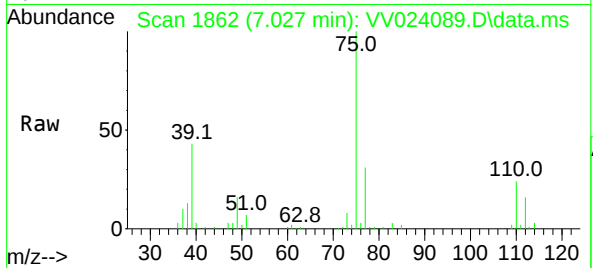
GBBK3MS

Tgt Ion: 75 Resp: 51127

Ion Ratio Lower Upper

75 100

77 31.5 22.0 41.0



#40

4-Methyl-2-pentanone

Concen: 55.668 ug/L

RT: 7.226 min Scan# 1924

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

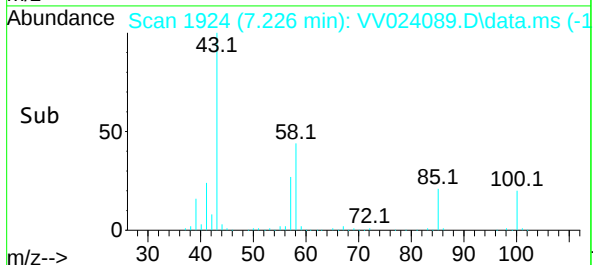
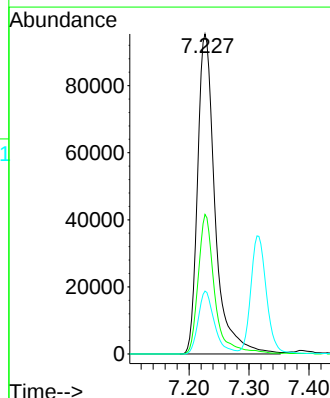
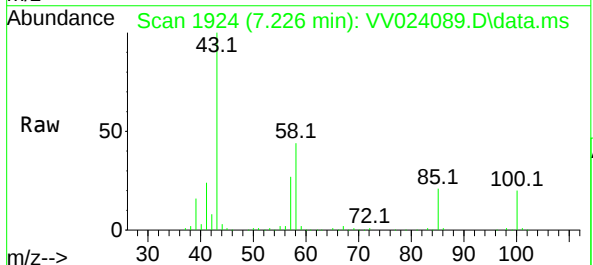
Tgt Ion: 43 Resp: 193827

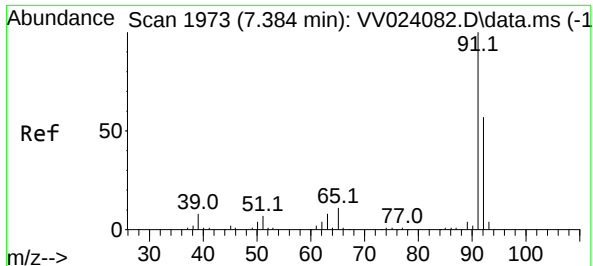
Ion Ratio Lower Upper

43 100

58 41.3 32.3 48.5

100 18.4 13.0 19.6





#42

Toluene

Concen: 5.138 ug/L

RT: 7.387 min Scan# 1973

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

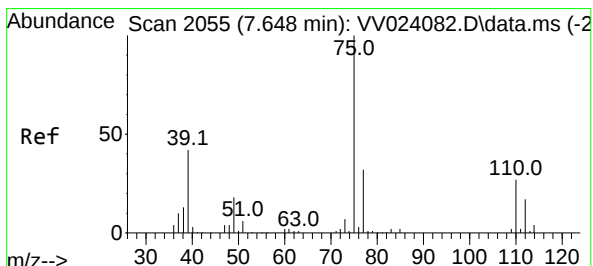
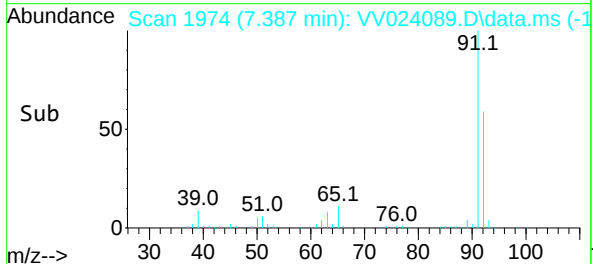
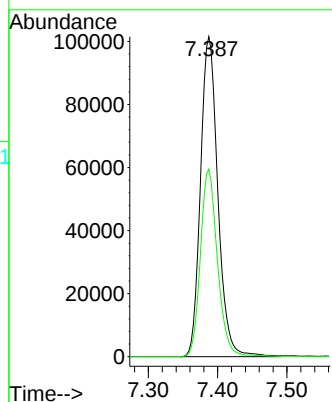
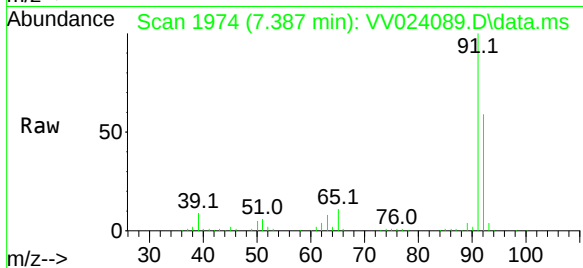
GBBK3MS

Tgt Ion: 91 Resp: 176349

Ion Ratio Lower Upper

91 100

92 58.6 41.5 77.1



#44

trans-1,3-Dichloropropene

Concen: 4.834 ug/L

RT: 7.651 min Scan# 2056

Delta R.T. 0.003 min

Lab File: VV024089.D

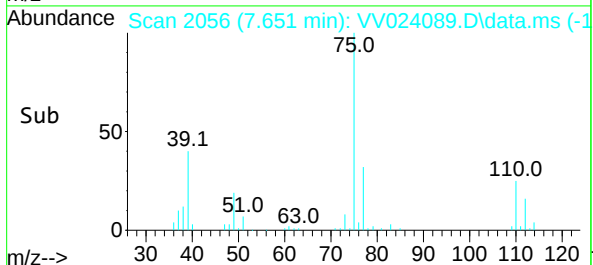
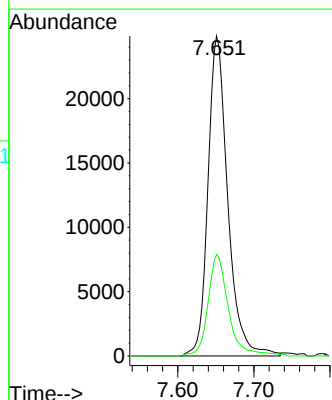
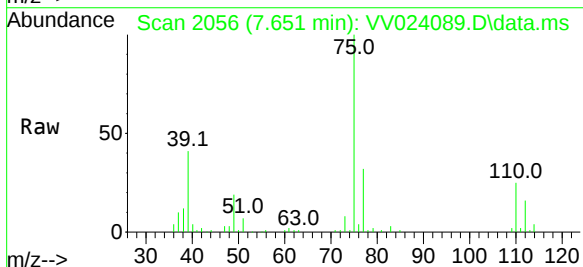
Acq: 19 Dec 2021 15:28

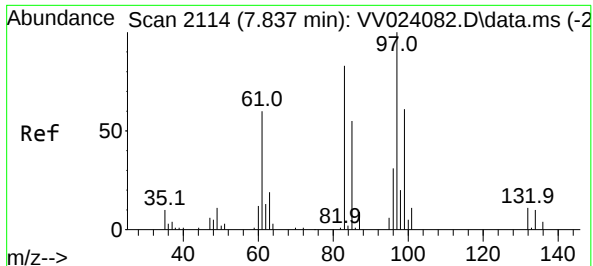
Tgt Ion: 75 Resp: 44956

Ion Ratio Lower Upper

75 100

77 31.7 21.8 40.4

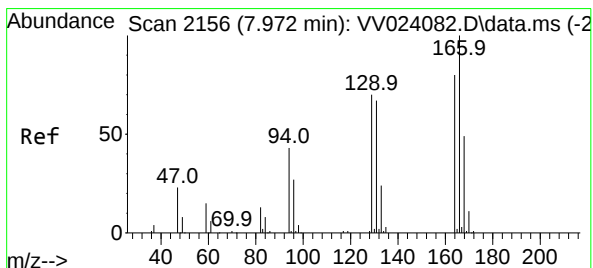
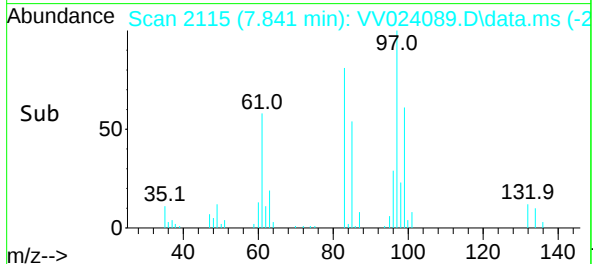
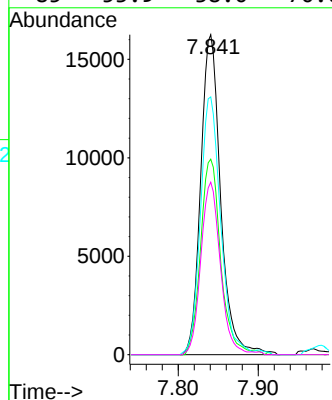
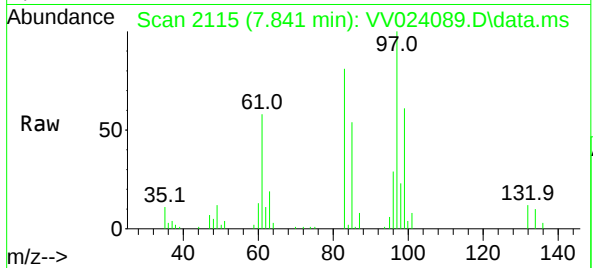




#45  
1,1,2-Trichloroethane  
Concen: 5.271 ug/L  
RT: 7.841 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

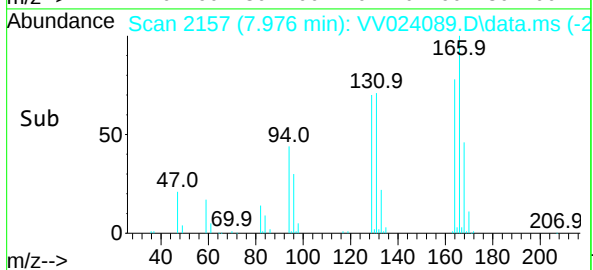
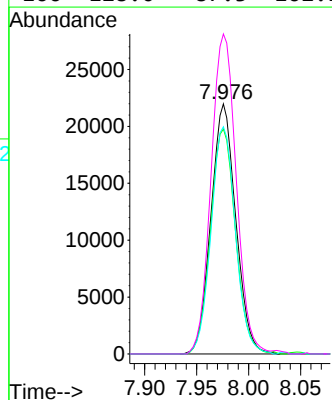
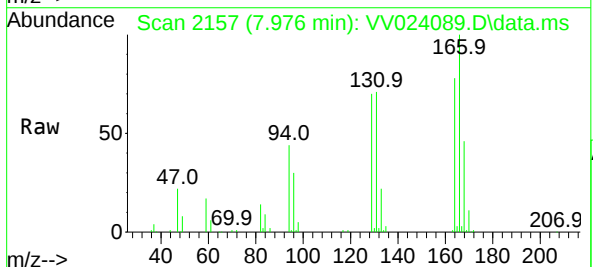
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

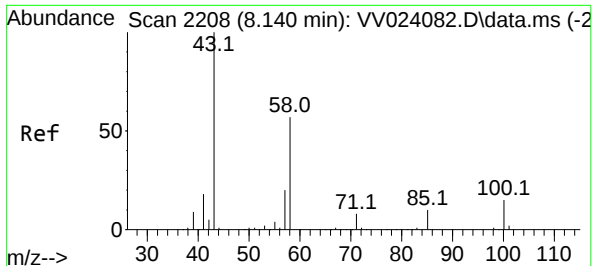
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 28265 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 61.1     | 43.1 80.1   |
| 83 80.6     | 57.9 107.5  |
| 85 53.9     | 38.0 70.6   |



#47  
Tetrachloroethene  
Concen: 4.821 ug/L  
RT: 7.976 min Scan# 2157  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 36506 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 90.0    | 62.6  | 116.2 |
| 131 | 90.9    | 61.0  | 113.4 |
| 166 | 128.0   | 87.3  | 162.1 |

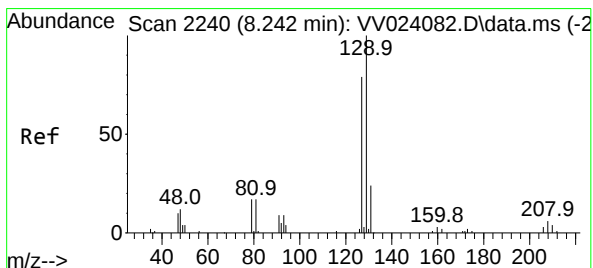
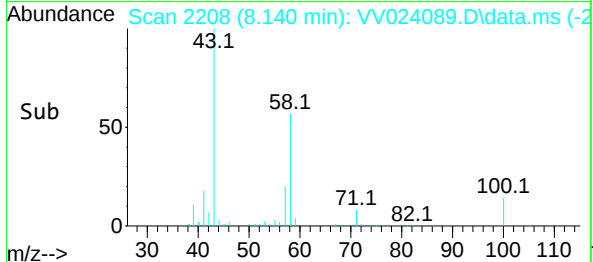
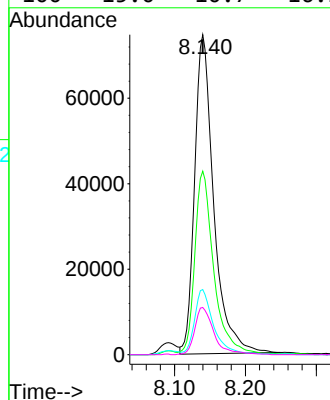
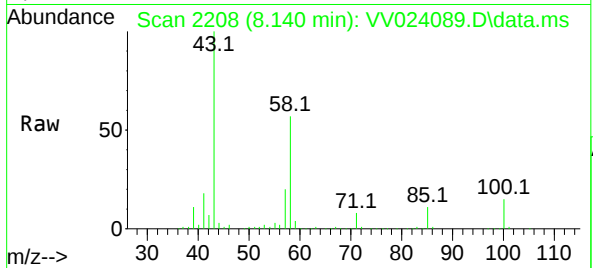




#48  
2-Hexanone  
Concen: 55.395 ug/L  
RT: 8.140 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

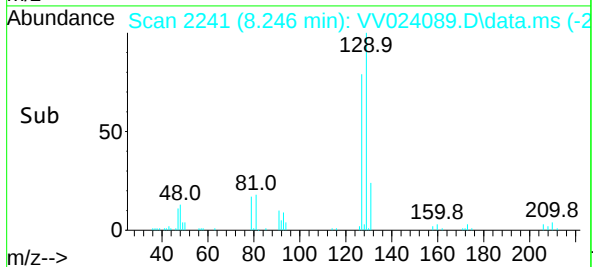
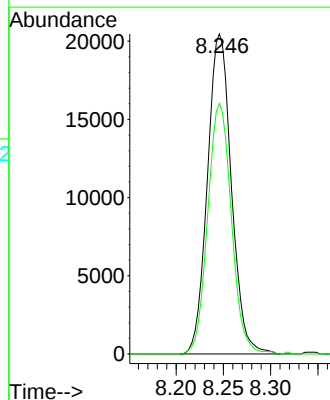
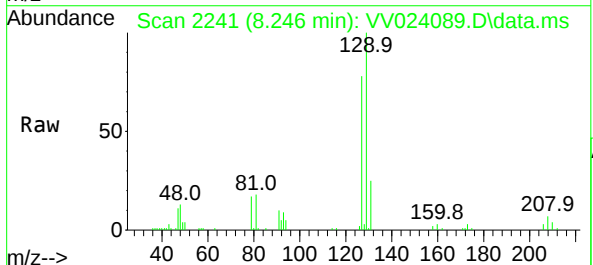
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

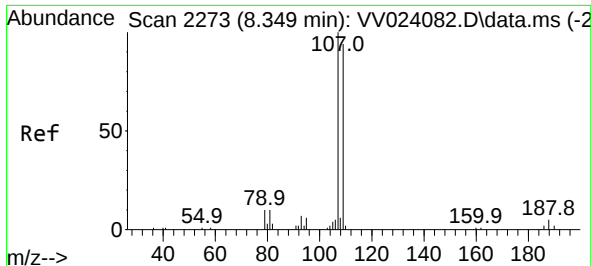
Tgt Ion: 43 Resp: 139852  
Ion Ratio Lower Upper  
43 100  
58 56.2 44.5 66.7  
57 19.9 15.1 22.7  
100 15.0 10.7 16.1



#49  
Dibromochloromethane  
Concen: 4.949 ug/L  
RT: 8.246 min Scan# 2241  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion: 129 Resp: 36106  
Ion Ratio Lower Upper  
129 100  
127 78.3 53.5 99.3





#50

1,2-Dibromoethane

Concen: 5.044 ug/L

RT: 8.352 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

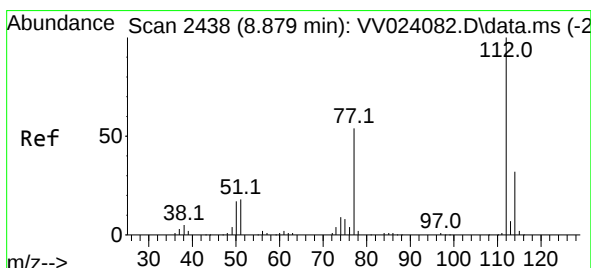
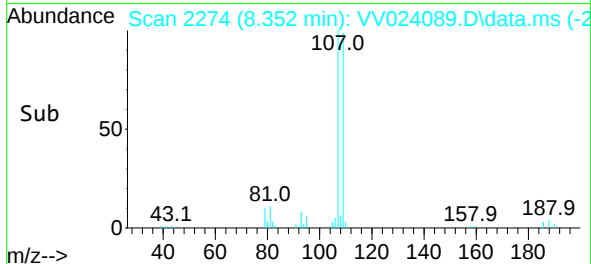
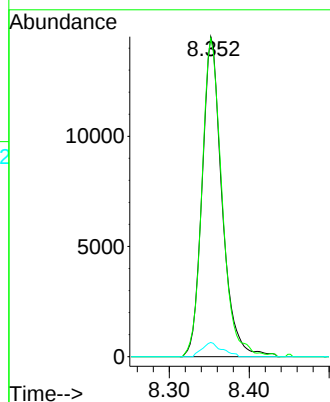
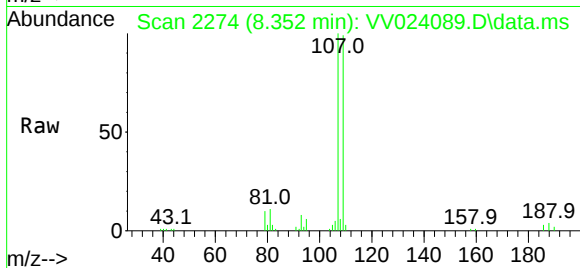
Instrument :

MSVOA\_V

ClientSampleId :

GBBK3MS

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:107 | Resp: | 25110       |
| Ion         | Ratio | Lower Upper |
| 107         | 100   |             |
| 109         | 99.5  | 62.5 116.1  |
| 188         | 4.4   | 3.4 5.2     |



#51

Chlorobenzene

Concen: 4.948 ug/L

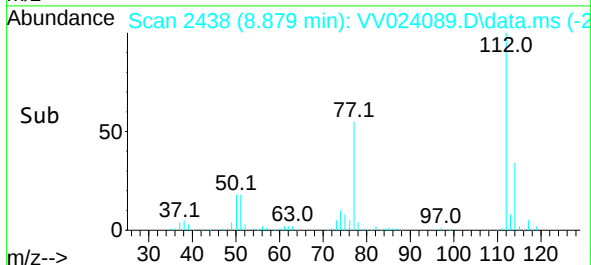
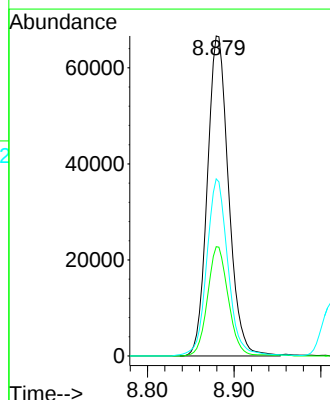
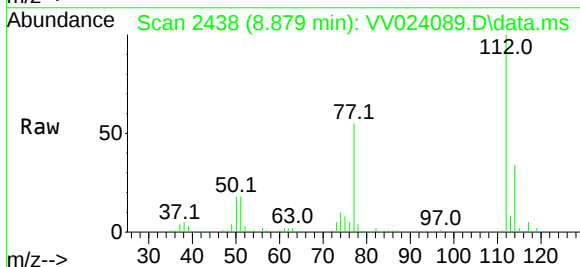
RT: 8.879 min Scan# 2438

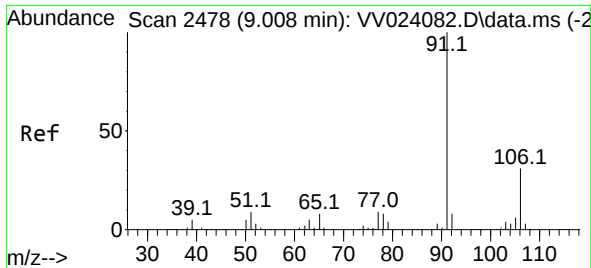
Delta R.T. 0.000 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:112 | Resp: | 113509      |
| Ion         | Ratio | Lower Upper |
| 112         | 100   |             |
| 114         | 34.1  | 23.3 43.3   |
| 77          | 55.4  | 43.3 64.9   |

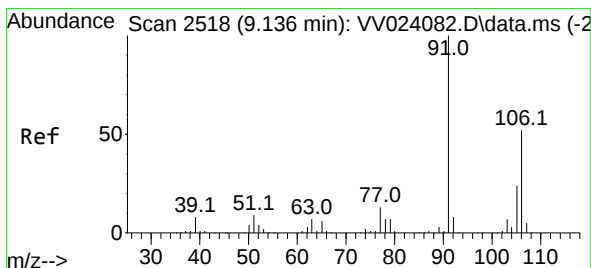
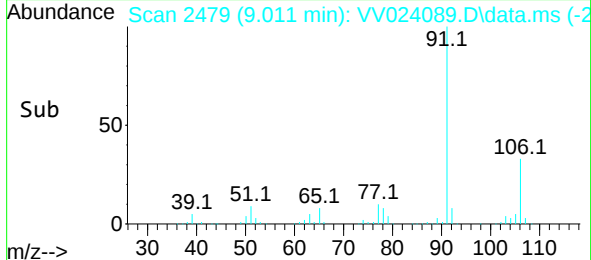
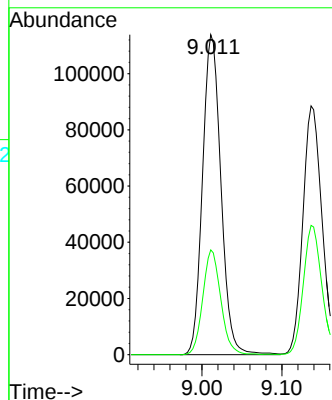
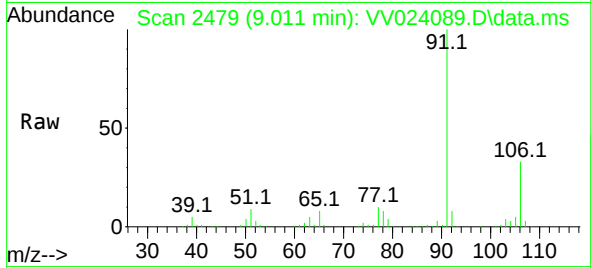




#52  
Ethylbenzene  
Concen: 5.048 ug/L  
RT: 9.011 min Scan# 2478  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

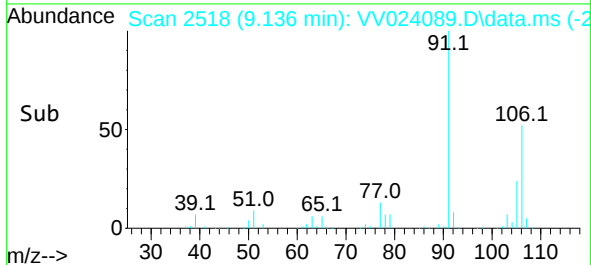
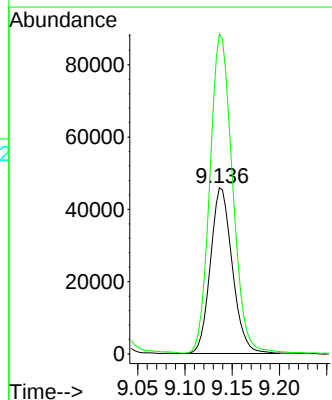
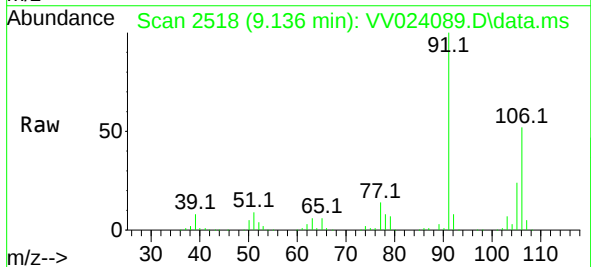
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

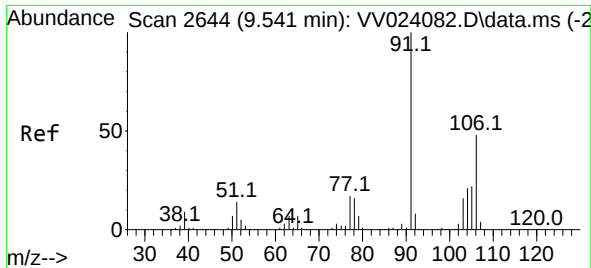
Tgt Ion: 91 Resp: 182790  
Ion Ratio Lower Upper  
91 100  
106 32.8 22.0 41.0



#53  
m,p-xylene  
Concen: 5.156 ug/L  
RT: 9.136 min Scan# 2518  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion:106 Resp: 73844  
Ion Ratio Lower Upper  
106 100  
91 192.5 139.5 259.1

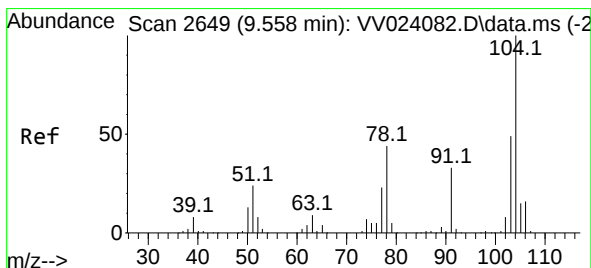
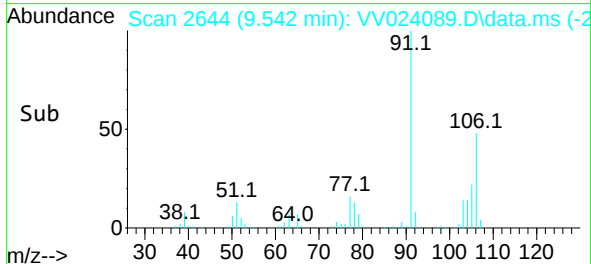
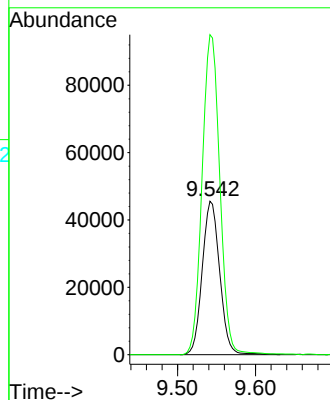
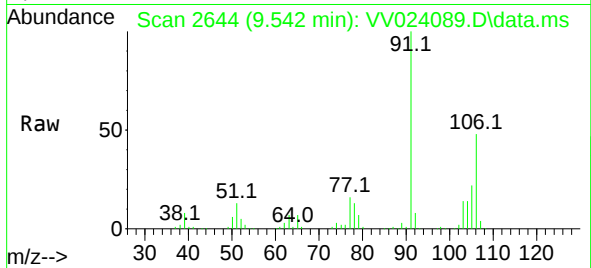




#54  
o-xylene  
Concen: 5.116 ug/L  
RT: 9.542 min Scan# 2644  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

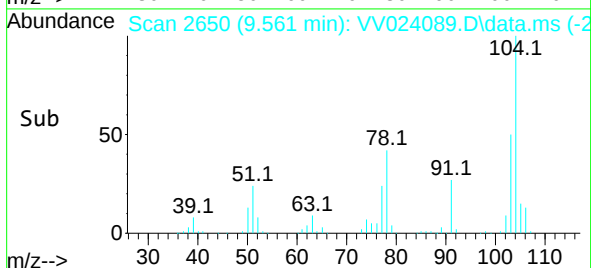
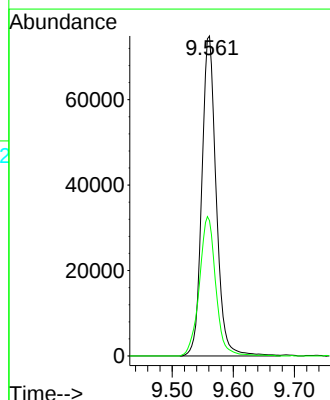
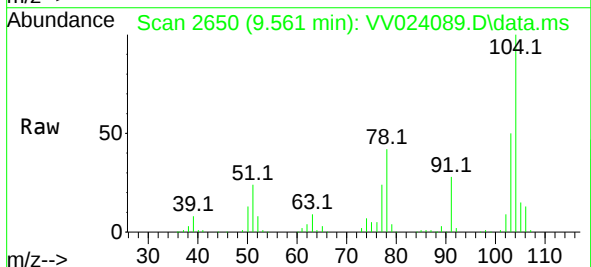
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

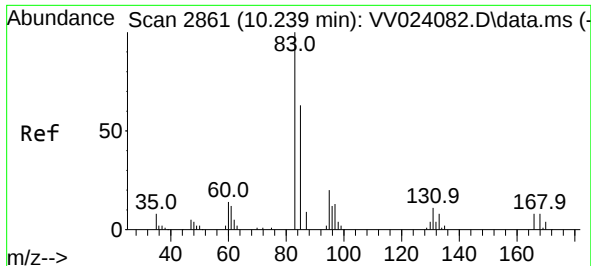
Tgt Ion:106 Resp: 70848  
Ion Ratio Lower Upper  
106 100  
91 208.6 147.9 274.7



#55  
Styrene  
Concen: 5.315 ug/L  
RT: 9.561 min Scan# 2650  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion:104 Resp: 122534  
Ion Ratio Lower Upper  
104 100  
78 42.3 31.0 57.6





#57

1,1,2,2-Tetrachloroethane

Concen: 4.895 ug/L

RT: 10.239 min Scan# 2861

Delta R.T. 0.000 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

Instrument :

MSVOA\_V

ClientSampleId :

GBBK3MS

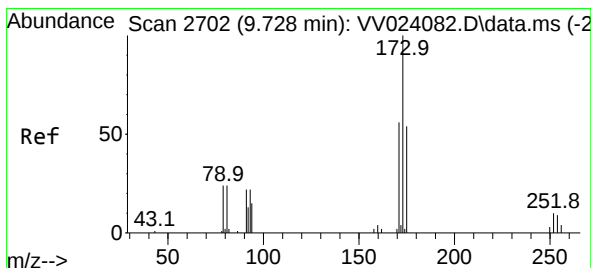
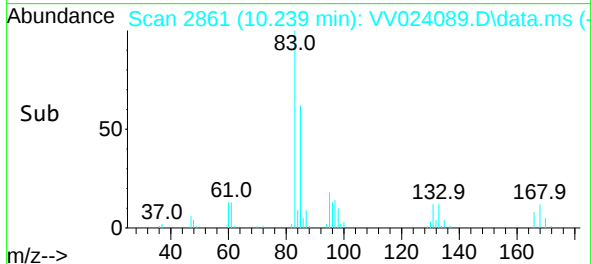
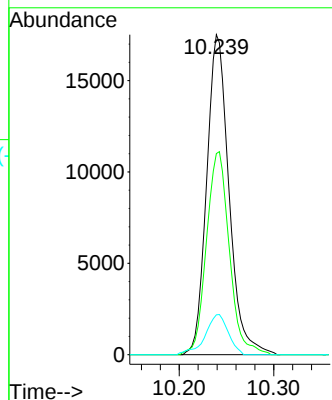
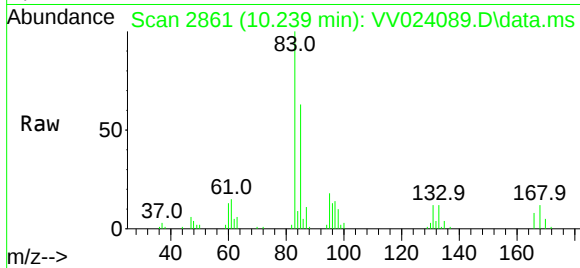
Tgt Ion: 83 Resp: 28742

Ion Ratio Lower Upper

83 100

85 62.8 44.6 82.8

131 12.5 8.3 12.5



#59

Bromoform

Concen: 4.756 ug/L

RT: 9.731 min Scan# 2703

Delta R.T. 0.003 min

Lab File: VV024089.D

Acq: 19 Dec 2021 15:28

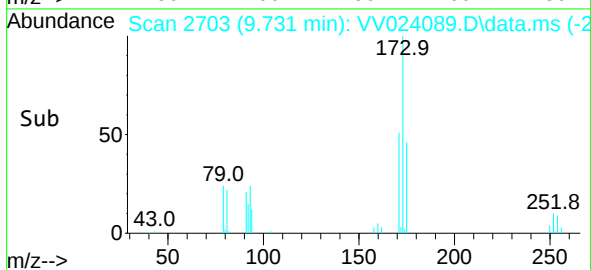
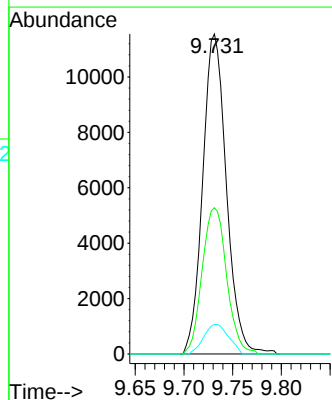
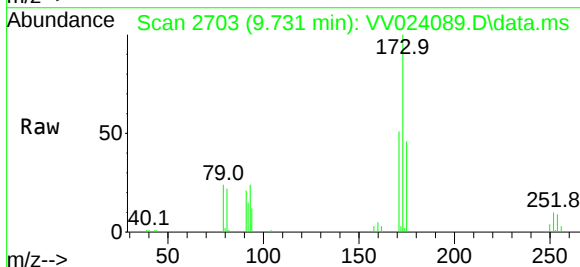
Tgt Ion: 173 Resp: 19533

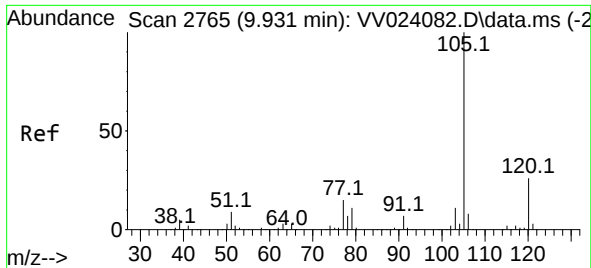
Ion Ratio Lower Upper

173 100

175 47.2 39.4 59.2

254 9.6 7.4 11.0

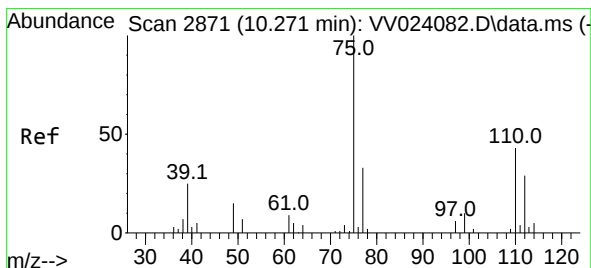
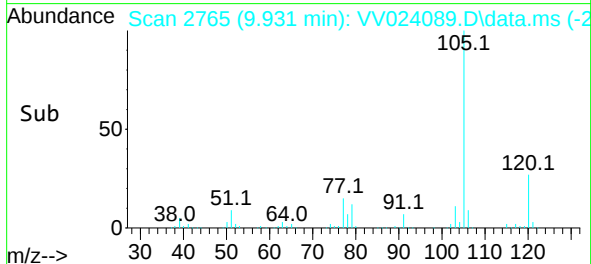
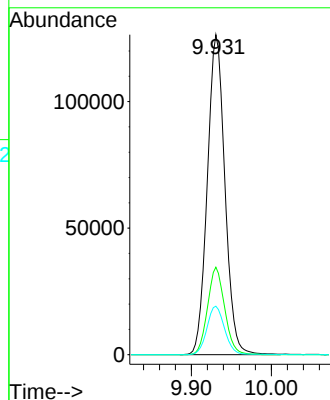
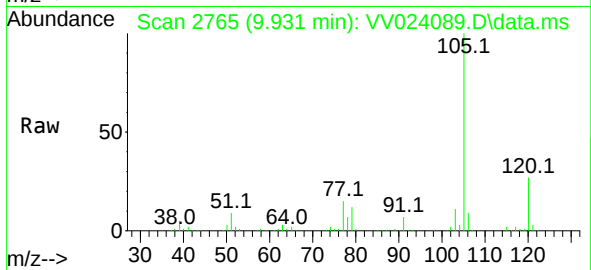




#60  
Isopropylbenzene  
Concen: 5.158 ug/L  
RT: 9.931 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

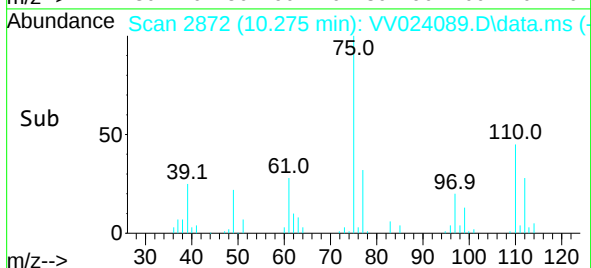
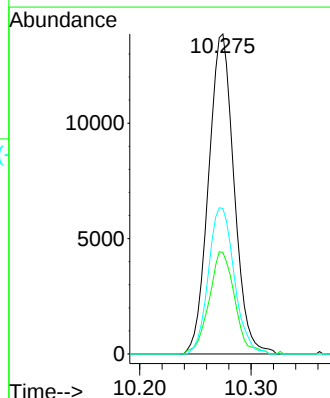
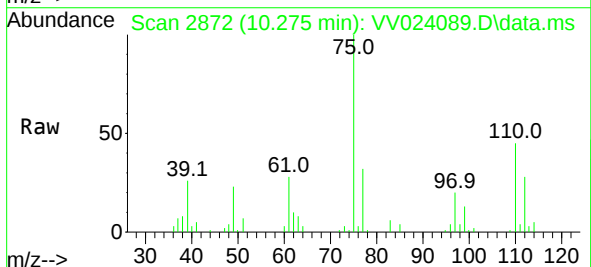
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

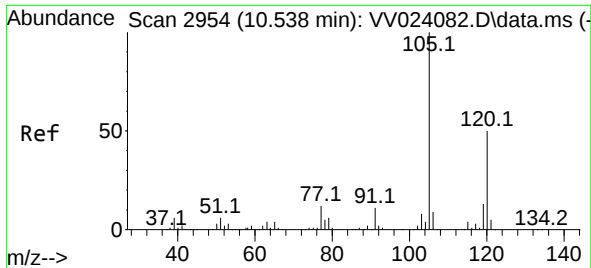
Tgt Ion:105 Resp: 193790  
Ion Ratio Lower Upper  
105 100  
120 26.6 21.4 32.0  
77 15.3 12.2 18.4



#61  
1,2,3-Trichloropropane  
Concen: 5.056 ug/L  
RT: 10.275 min Scan# 2872  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion: 75 Resp: 22041  
Ion Ratio Lower Upper  
75 100  
77 32.1 26.4 39.6  
110 46.3 34.2 51.2

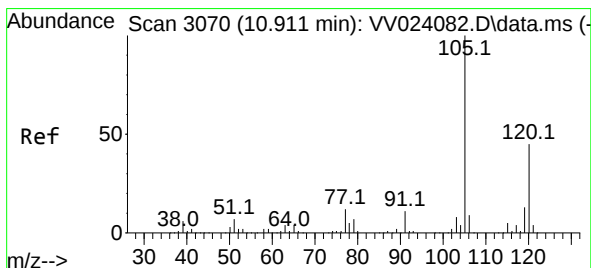
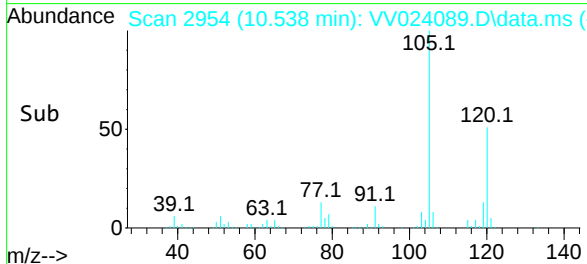
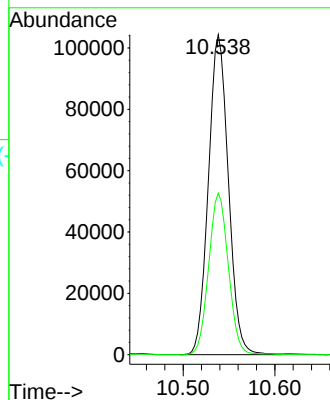
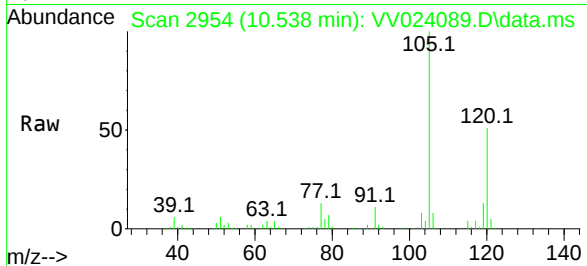




#62  
1,3,5-Trimethylbenzene  
Concen: 5.067 ug/L  
RT: 10.538 min Scan# 2954  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

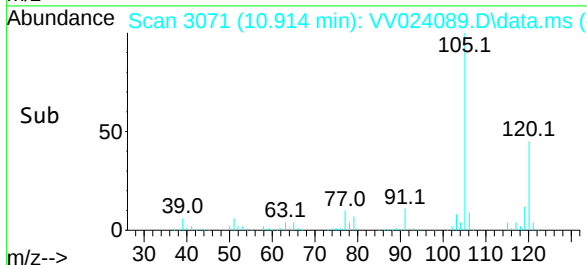
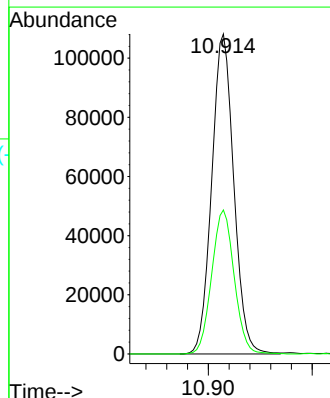
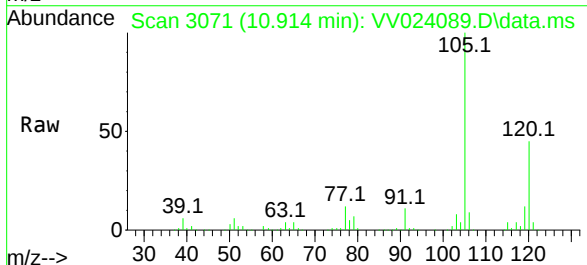
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

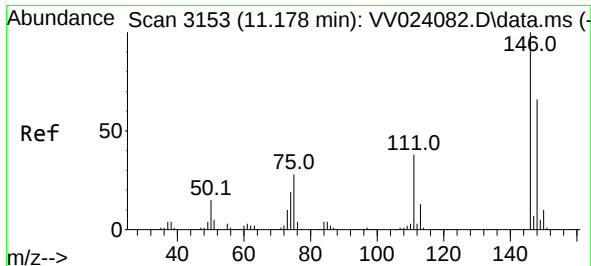
Tgt Ion:105 Resp: 157912  
Ion Ratio Lower Upper  
105 100  
120 49.7 40.1 60.1



#63  
1,2,4-Trimethylbenzene  
Concen: 5.132 ug/L  
RT: 10.914 min Scan# 3071  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion:105 Resp: 159333  
Ion Ratio Lower Upper  
105 100  
120 45.8 36.7 55.1

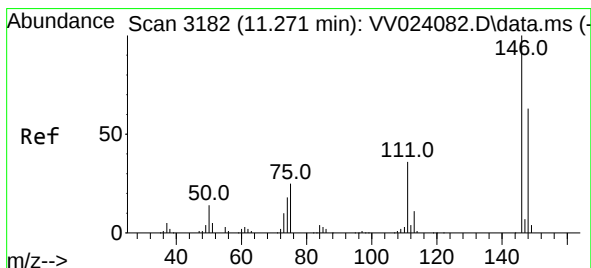
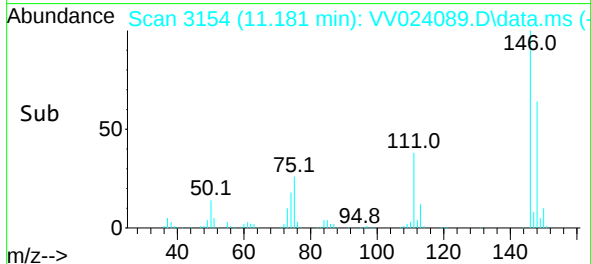
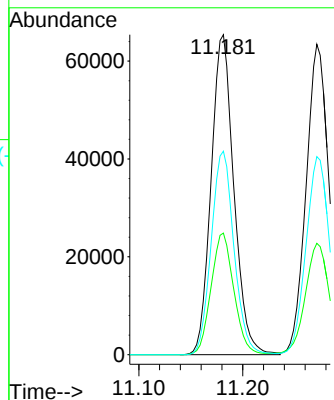
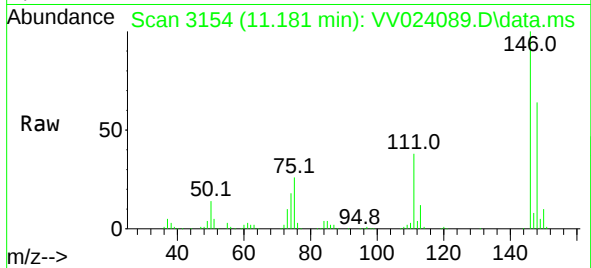




#64  
1,3-Dichlorobenzene  
Concen: 5.176 ug/L  
RT: 11.181 min Scan# 3154  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

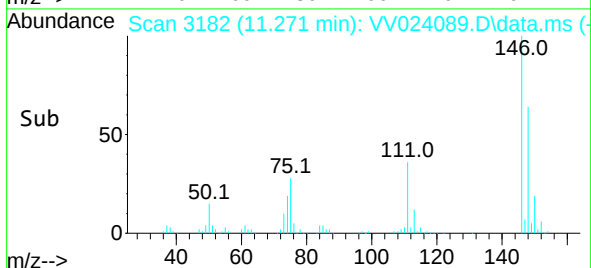
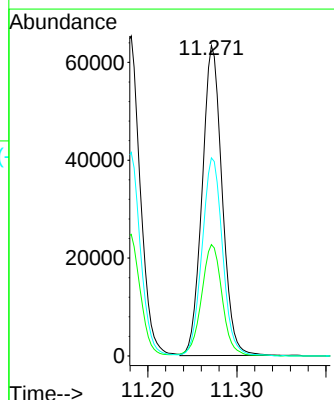
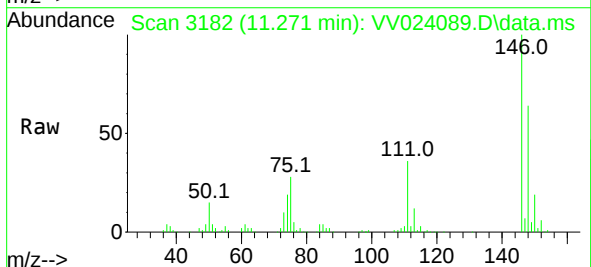
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

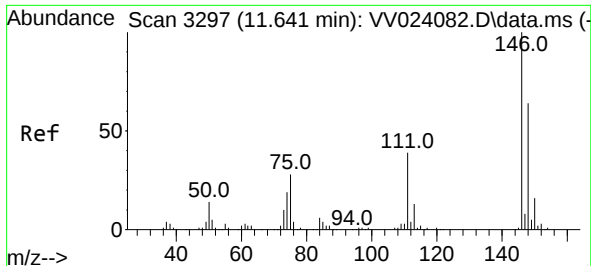
Tgt Ion:146 Resp: 99446  
Ion Ratio Lower Upper  
146 100  
111 38.0 26.3 48.9  
148 63.6 44.4 82.5



#65  
1,4-Dichlorobenzene  
Concen: 5.114 ug/L  
RT: 11.271 min Scan# 3182  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion:146 Resp: 98698  
Ion Ratio Lower Upper  
146 100  
111 35.9 25.6 47.6  
148 63.8 44.8 83.2

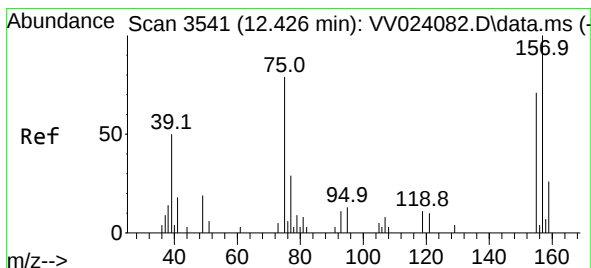
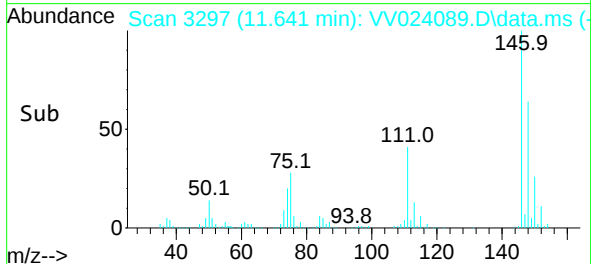
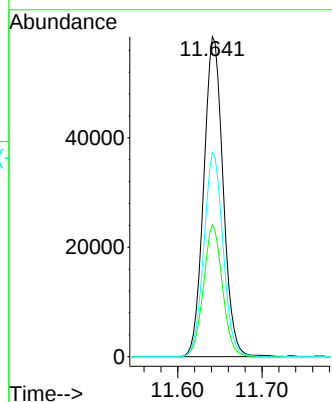
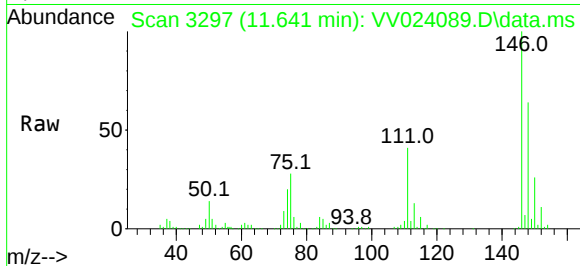




#67  
1,2-Dichlorobenzene  
Concen: 5.306 ug/L  
RT: 11.641 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

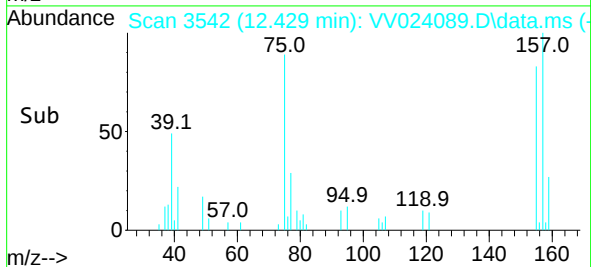
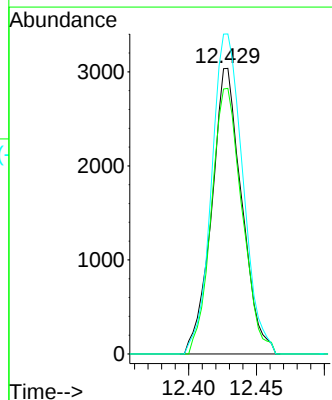
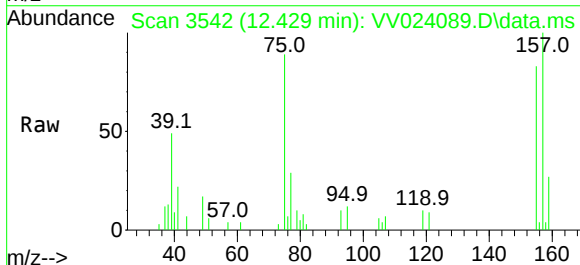
Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

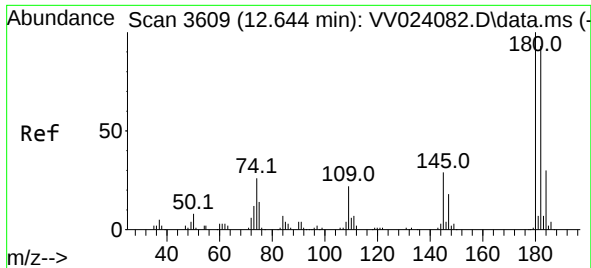
Tgt Ion:146 Resp: 93396  
Ion Ratio Lower Upper  
146 100  
111 41.2 31.9 47.9  
148 63.7 50.5 75.7



#68  
1,2-Dibromo-3-chloropropane  
Concen: 4.929 ug/L  
RT: 12.429 min Scan# 3542  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion: 75 Resp: 4693  
Ion Ratio Lower Upper  
75 100  
155 93.0 71.7 107.5  
157 112.0 103.3 154.9



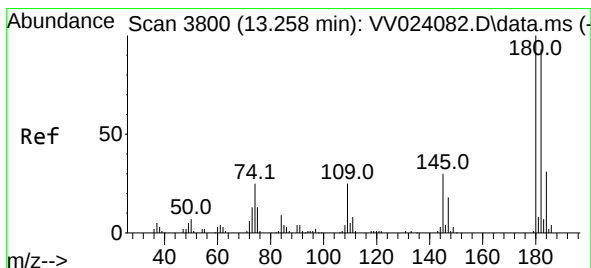
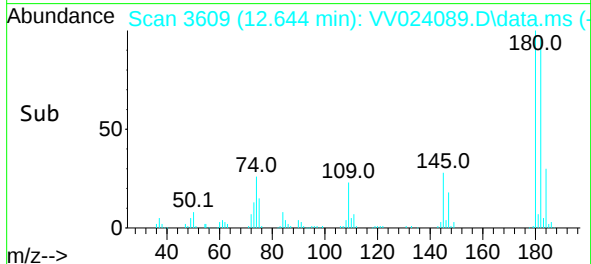
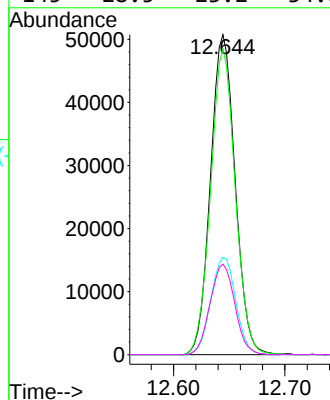
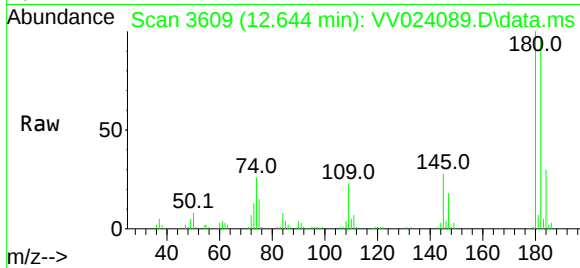


#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.934 ug/L  
 RT: 12.644 min Scan# 3609  
 Delta R.T. 0.000 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GBBK3MS

Tgt Ion:180 Resp: 77970

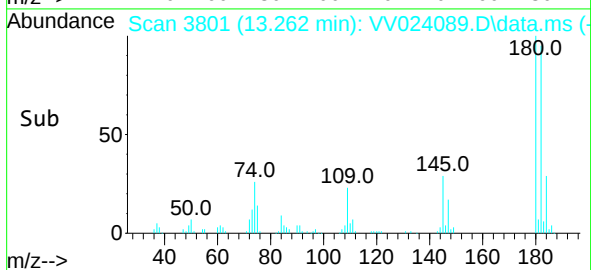
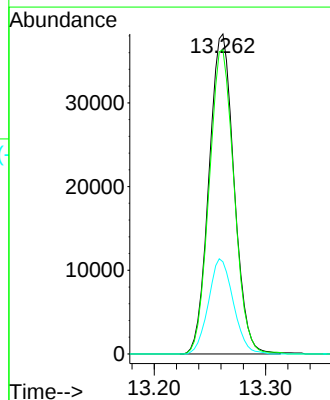
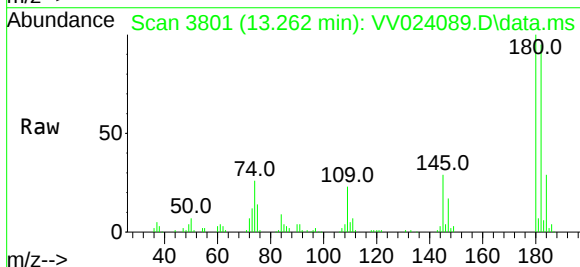
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 95.5  | 76.4  | 114.6 |
| 184 | 30.7  | 24.2  | 36.4  |
| 145 | 28.5  | 23.2  | 34.8  |

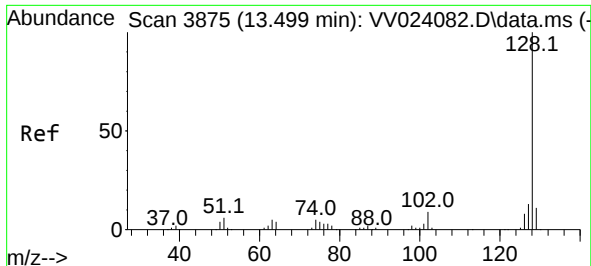


#70  
 1,2,4-trichlorobenzene  
 Concen: 4.803 ug/L  
 RT: 13.262 min Scan# 3801  
 Delta R.T. 0.003 min  
 Lab File: VV024089.D  
 Acq: 19 Dec 2021 15:28

Tgt Ion:180 Resp: 59615

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.6  | 74.4  | 111.6 |
| 145 | 29.5  | 23.3  | 34.9  |

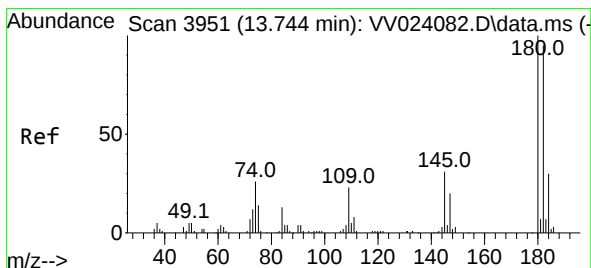
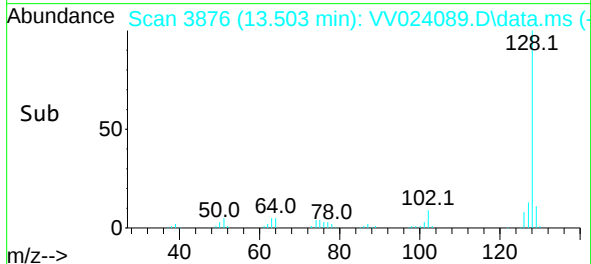
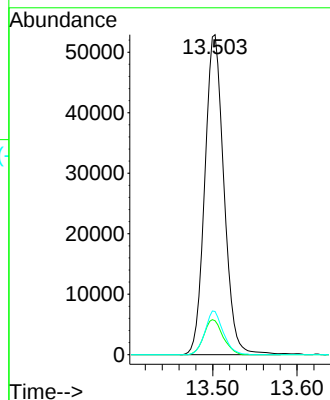
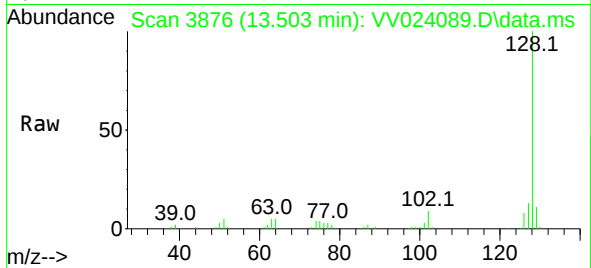




#71  
Naphthalene  
Concen: 4.685 ug/L  
RT: 13.503 min Scan# 3876  
Delta R.T. 0.003 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Instrument :  
MSVOA\_V  
ClientSampleId :  
GBBK3MS

Tgt Ion:128 Resp: 83585  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.0 13.4  
127 13.0 10.2 15.4



#72  
1,2,3-Trichlorobenzene  
Concen: 4.745 ug/L  
RT: 13.744 min Scan# 3951  
Delta R.T. 0.000 min  
Lab File: VV024089.D  
Acq: 19 Dec 2021 15:28

Tgt Ion:180 Resp: 52001  
Ion Ratio Lower Upper  
180 100  
182 98.4 76.8 115.2  
145 32.2 25.8 38.6

