

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072222\  
 Data File : BG054361.D  
 Acq On : 22 Jul 2022 15:50  
 Operator : CG/JU  
 Sample : N3806-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FRAC-TANK-N48964

Quant Time: Jul 23 00:11:40 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 15 15:54:11 2022  
 Response via : Initial Calibration

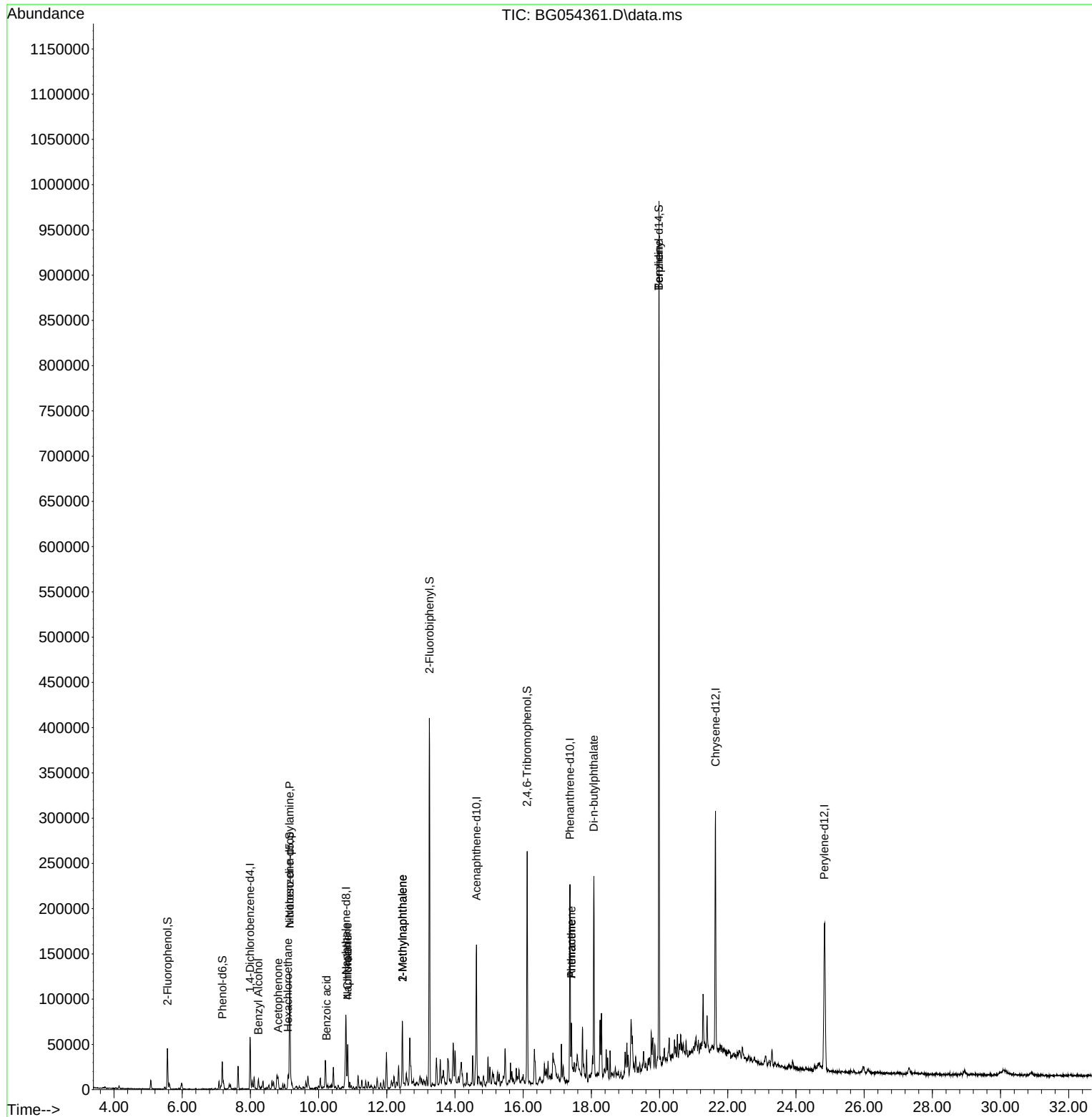
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.989  | 152  | 17732    | 20.000    | ng    | -0.01    |
| 21) Naphthalene-d8            | 10.803 | 136  | 68932    | 20.000    | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.628 | 164  | 57218    | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.372 | 188  | 151690   | 20.000    | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.638 | 240  | 182330   | 20.000    | ng    | # 0.00   |
| 86) Perylene-d12              | 24.834 | 264  | 194725   | 20.000    | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.568  | 112  | 19995    | 23.543    | ng    | 0.00     |
| 7) Phenol-d6                  | 7.178  | 99   | 17670    | 15.184    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.152  | 82   | 77136    | 60.938    | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 16.115 | 330  | 67740    | 56.386    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 13.248 | 172  | 231831   | 57.157    | ng    | -0.01    |
| 79) Terphenyl-d14             | 19.981 | 244  | 509511   | 55.436    | ng    | 0.00     |
| Target Compounds              |        |      |          |           |       |          |
|                               |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 7.131  | 77   | 494      | Below Cal | #     | 1        |
| 15) Benzyl Alcohol            | 8.236  | 79   | 4821     | 5.037     | ng    | 95       |
| 18) Hexachloroethane          | 9.099  | 117  | 1830     | 4.500     | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 9.152  | 70   | 11085    | 14.264    | ng    | # 80     |
| 22) Acetophenone              | 8.812  | 105  | 7173     | 4.327     | ng    | # 88     |
| 31) Naphthalene               | 10.850 | 128  | 24428    | 7.060     | ng    | 98       |
| 32) Benzoic acid              | 10.228 | 122  | 234      | 8.244     | ng    | # 23     |
| 33) 4-Chloroaniline           | 10.850 | 127  | 3483     | 2.475     | ng    | # 51     |
| 37) 2-Methylnaphthalene       | 12.460 | 142  | 36248    | 13.641    | ng    | 97       |
| 38) 1-Methylnaphthalene       | 12.460 | 142  | 36248    | 13.999    | ng    | 92       |
| 71) Phenanthrene              | 17.413 | 178  | 35123    | 4.650     | ng    | 98       |
| 72) Anthracene                | 17.413 | 178  | 35123    | 4.738     | ng    | 97       |
| 74) Di-n-butylphthalate       | 18.071 | 149  | 65622    | 9.112     | ng    | # 32     |
| 77) Benzidine                 | 19.981 | 184  | 6697     | 2.028     | ng    | # 90     |
| -----                         |        |      |          |           |       |          |

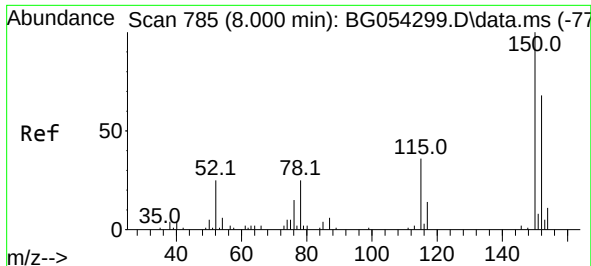
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 15 15:54:11 2022  
Response via : Initial Calibration

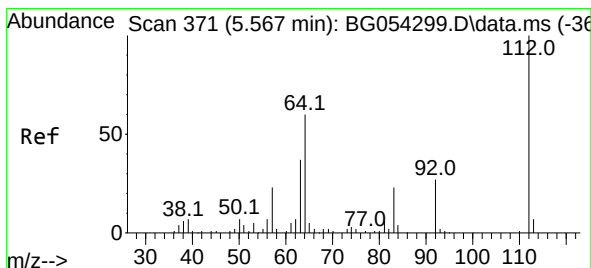
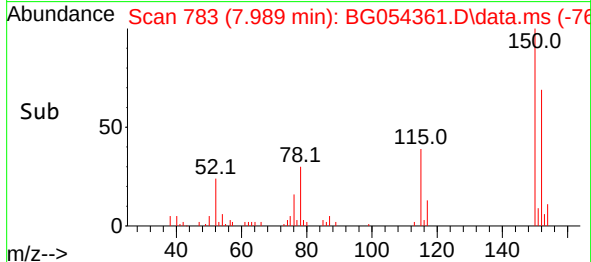
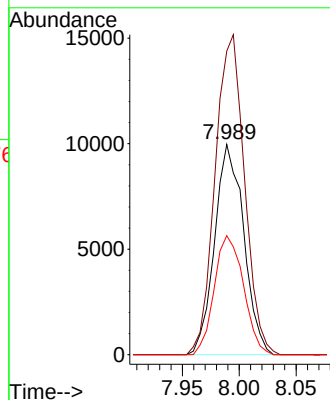
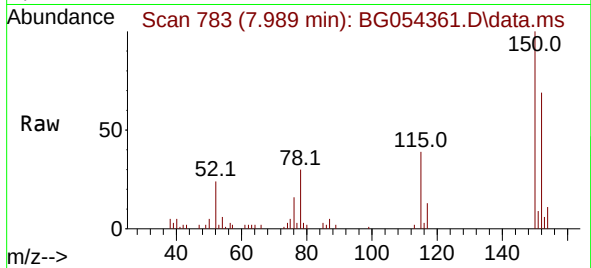




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.989 min Scan# 785  
 Delta R.T. -0.011 min  
 Lab File: BG054361.D  
 Acq: 22 Jul 2022 15:50

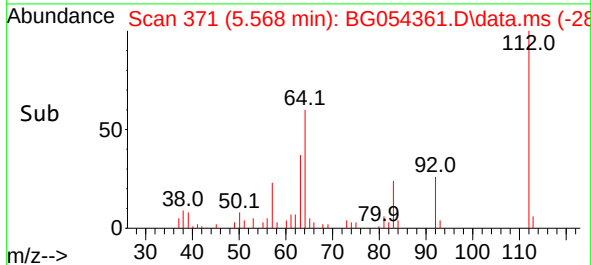
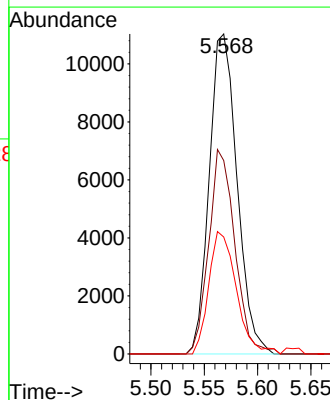
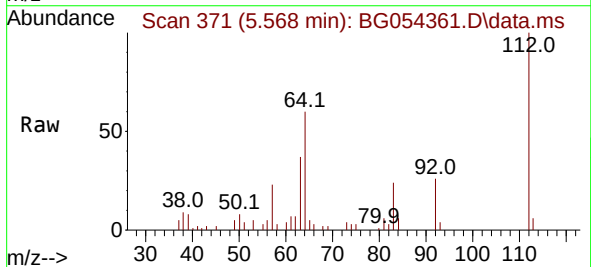
Instrument :  
 BNA\_G  
 ClientSampleId :  
 FRAC-TANK-N48964

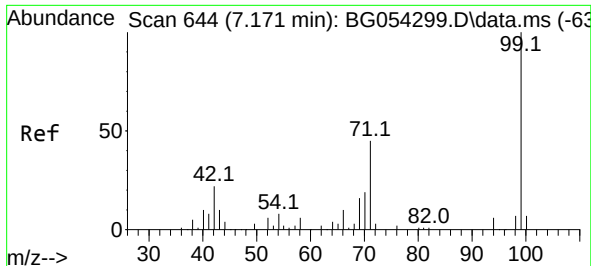
Tgt Ion:152 Resp: 17732  
 Ion Ratio Lower Upper  
 152 100  
 150 144.4 131.6 197.4  
 115 56.6 50.9 76.3



#5  
 2-Fluorophenol  
 Concen: 23.543 ng  
 RT: 5.568 min Scan# 371  
 Delta R.T. 0.001 min  
 Lab File: BG054361.D  
 Acq: 22 Jul 2022 15:50

Tgt Ion:112 Resp: 19995  
 Ion Ratio Lower Upper  
 112 100  
 64 60.4 55.1 82.7  
 63 36.6 30.4 45.6

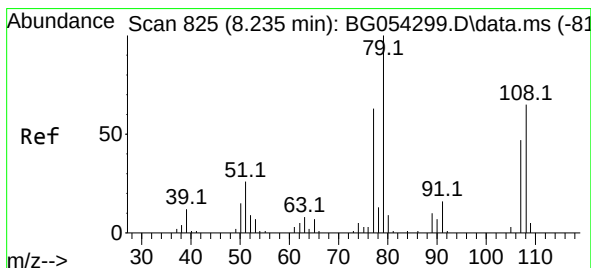
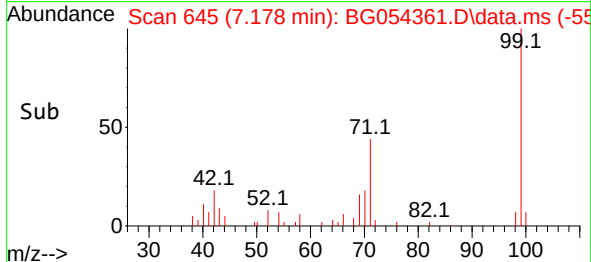
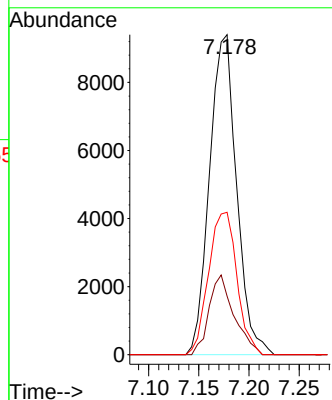
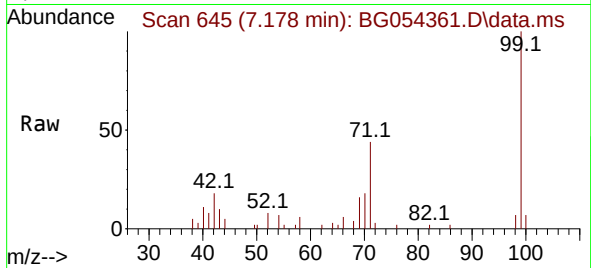




#7  
Phenol-d6  
Concen: 15.184 ng  
RT: 7.178 min Scan# 644  
Delta R.T. 0.007 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

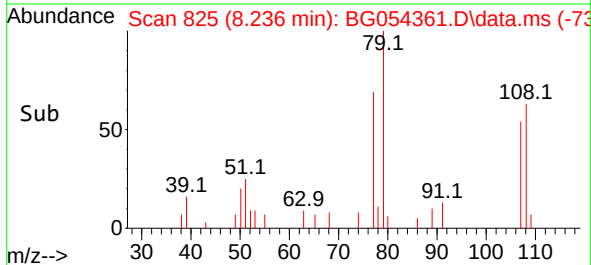
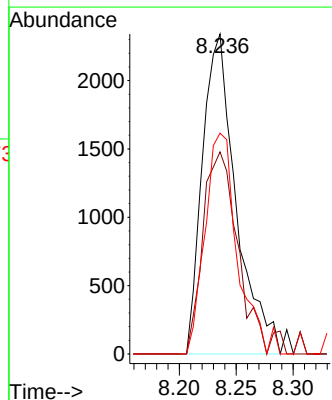
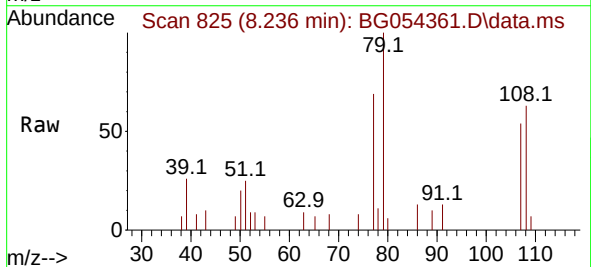
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK-N48964

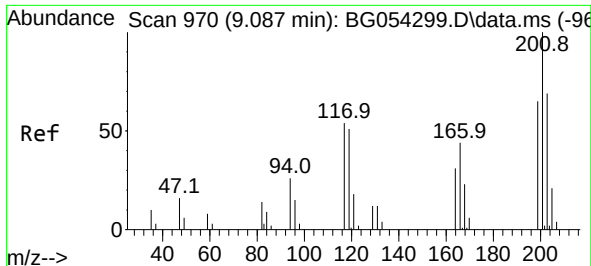
Tgt Ion: 99 Resp: 17670  
Ion Ratio Lower Upper  
99 100  
42 18.3 17.0 25.6  
71 44.5 33.8 50.8



#15  
Benzyl Alcohol  
Concen: 5.037 ng  
RT: 8.236 min Scan# 825  
Delta R.T. 0.001 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

Tgt Ion: 79 Resp: 4821  
Ion Ratio Lower Upper  
79 100  
108 63.2 53.7 80.5  
77 69.0 52.2 78.4

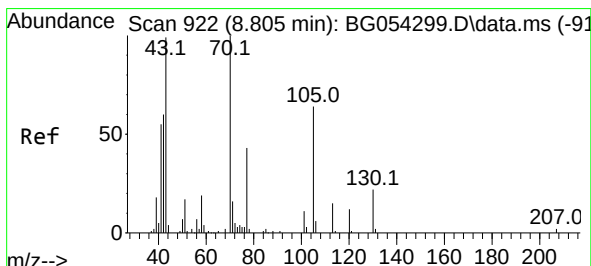
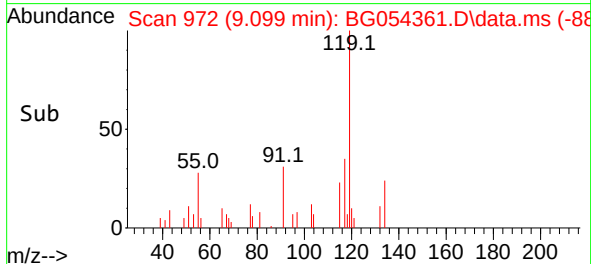
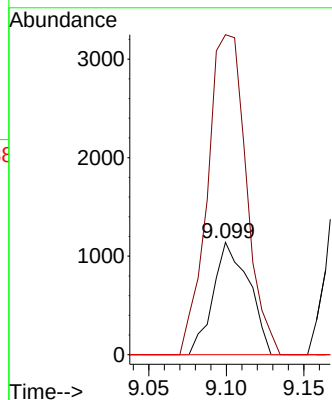
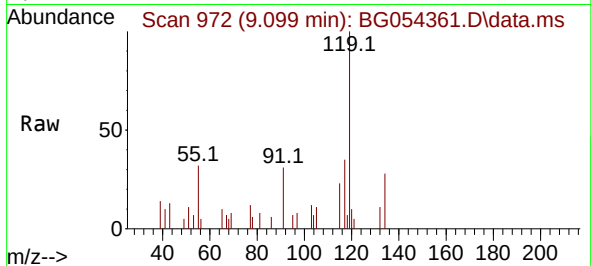




#18  
Hexachloroethane  
Concen: 4.500 ng  
RT: 9.099 min Scan# 911  
Delta R.T. 0.013 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

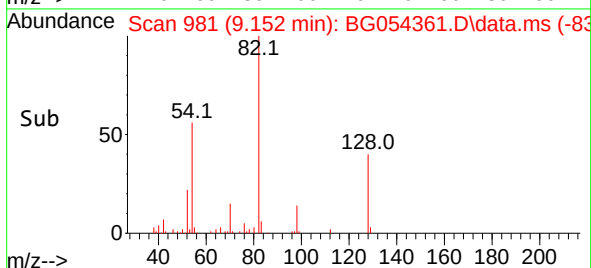
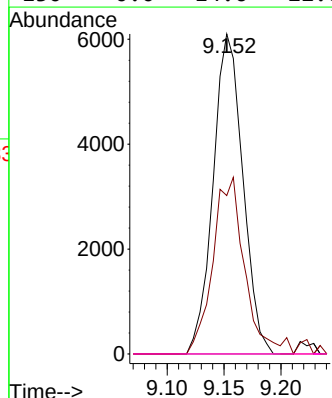
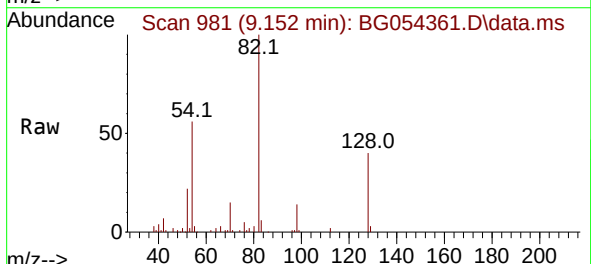
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK-N48964

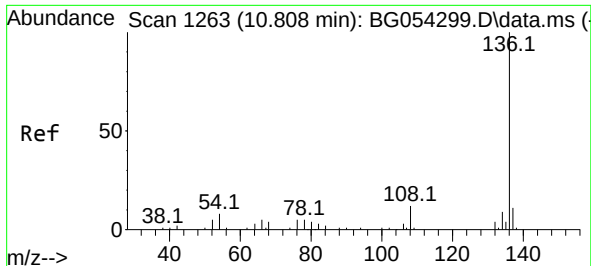
Tgt Ion:117 Resp: 1830  
Ion Ratio Lower Upper  
117 100  
119 284.9 75.0 112.6#  
201 0.0 89.0 133.6#



#19  
n-Nitroso-di-n-propylamine  
Concen: 14.264 ng  
RT: 9.152 min Scan# 981  
Delta R.T. 0.348 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

Tgt Ion: 70 Resp: 11085  
Ion Ratio Lower Upper  
70 100  
42 49.5 47.3 70.9  
101 0.0 7.0 10.4#  
130 0.0 14.6 22.0#

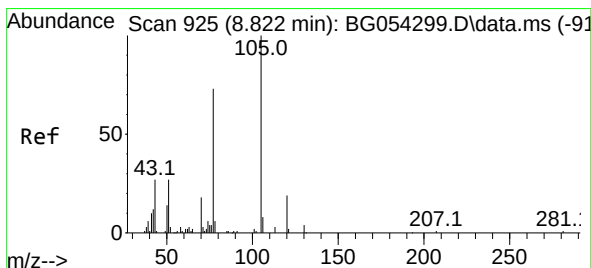
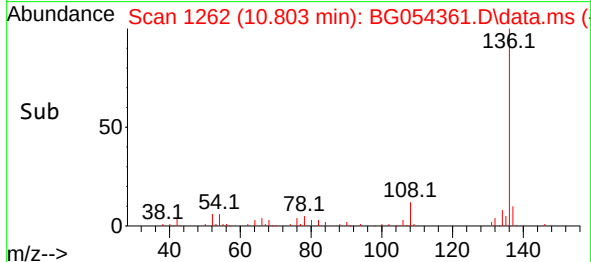
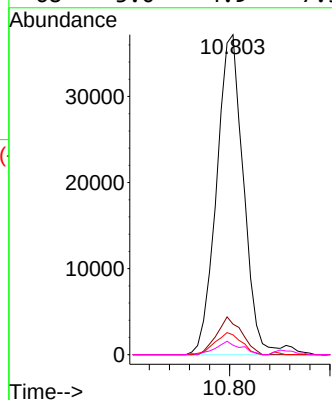
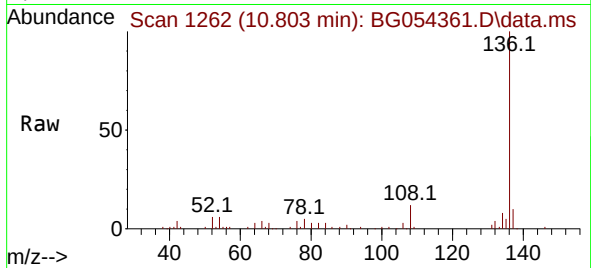




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.803 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

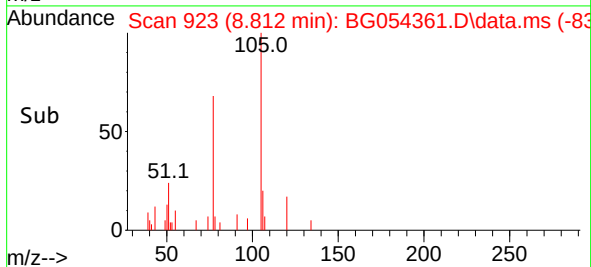
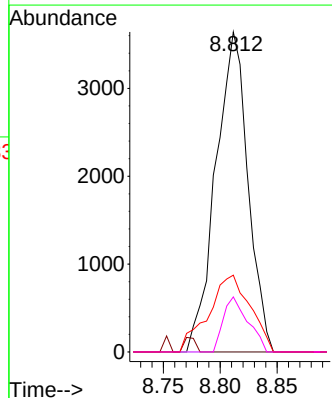
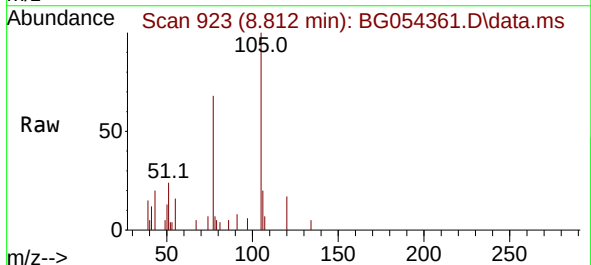
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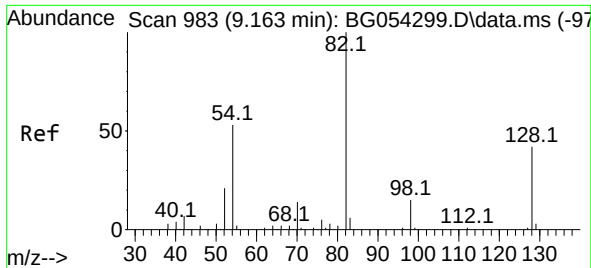
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:136 | Resp: | 68932     |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 9.5   | 8.5 12.7  |
| 54          | 6.2   | 7.4 11.2# |
| 68          | 3.0   | 4.9 7.3#  |



#22  
Acetophenone  
Concen: 4.327 ng  
RT: 8.812 min Scan# 923  
Delta R.T. -0.011 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:105 | Resp: | 7173       |
| Ion Ratio   | Lower | Upper      |
| 105         | 100   |            |
| 71          | 0.0   | 1.1 1.7#   |
| 51          | 24.0  | 25.4 38.0# |
| 120         | 17.2  | 17.3 25.9# |

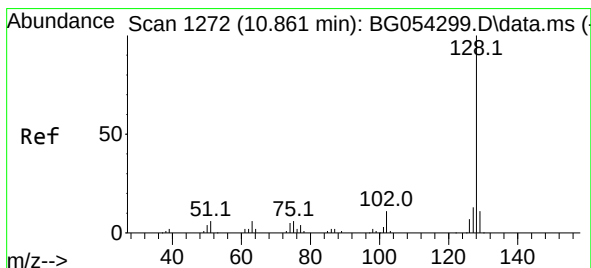
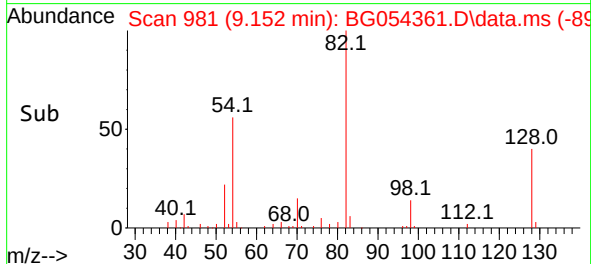
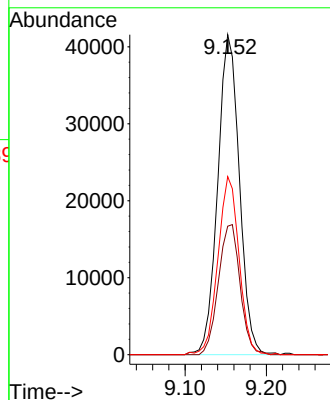
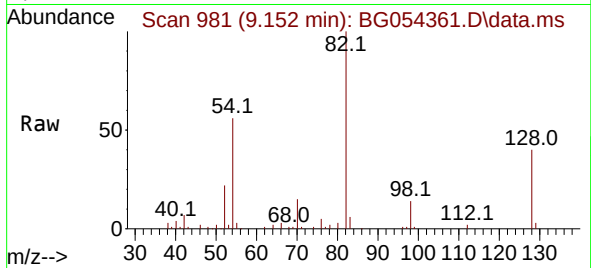




#23  
Nitrobenzene-d5  
Concen: 60.938 ng  
RT: 9.152 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

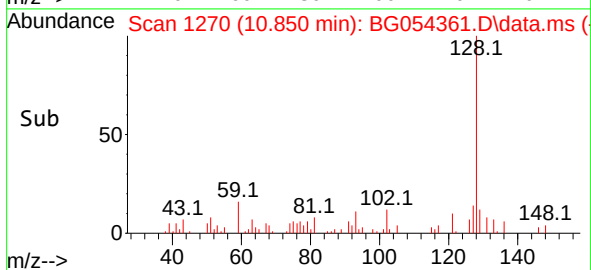
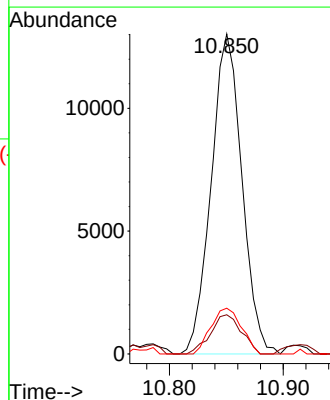
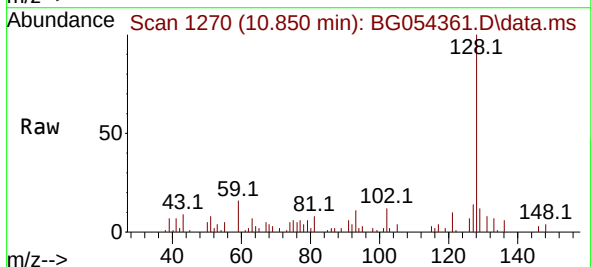
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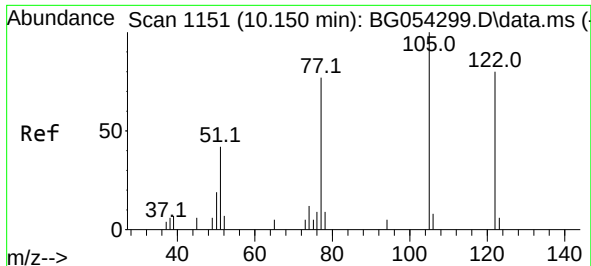
Tgt Ion: 82 Resp: 77136  
Ion Ratio Lower Upper  
82 100  
128 40.2 27.9 41.9  
54 55.6 41.2 61.8



#31  
Naphthalene  
Concen: 7.060 ng  
RT: 10.850 min Scan# 1270  
Delta R.T. -0.011 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

Tgt Ion: 128 Resp: 24428  
Ion Ratio Lower Upper  
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129 12.3 9.0 13.6  
127 14.3 11.1 16.7

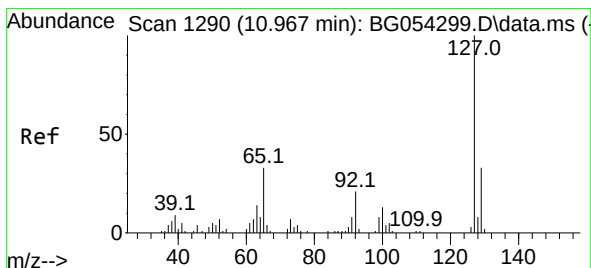
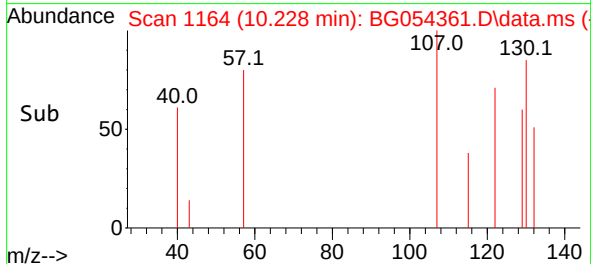
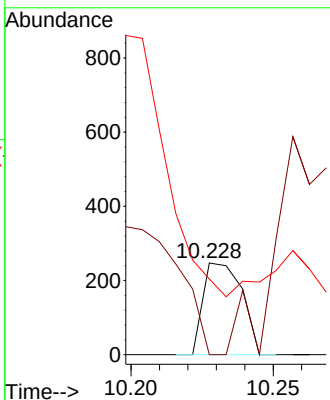
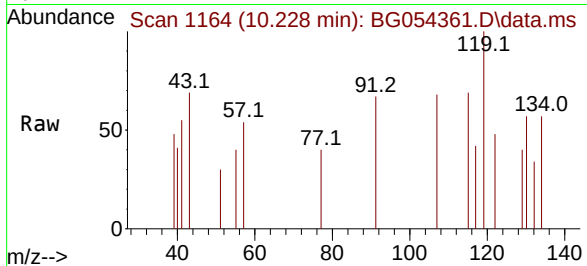




#32  
Benzoic acid  
Concen: 8.244 ng  
RT: 10.228 min Scan# 1151  
Delta R.T. 0.078 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

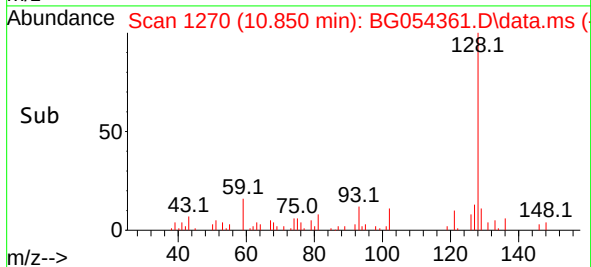
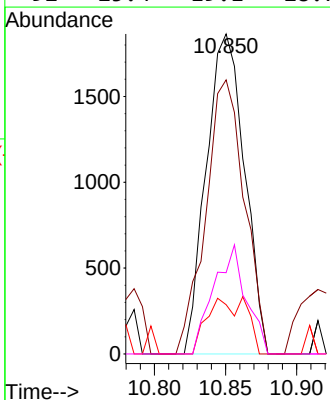
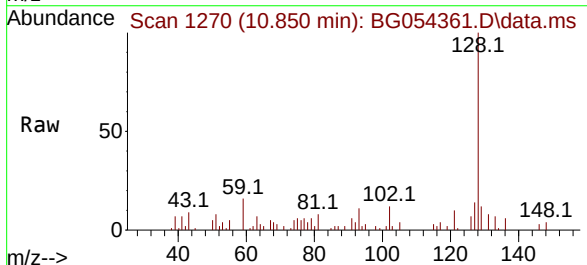
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FRAC-TANK-N48964

Tgt Ion:122 Resp: 234  
Ion Ratio Lower Upper  
122 100  
105 0.0 111.8 151.8#  
77 82.6 109.4 149.4#

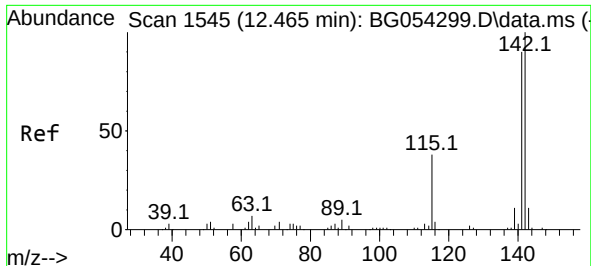


#33  
4-Chloroaniline  
Concen: 2.475 ng  
RT: 10.850 min Scan# 1270  
Delta R.T. -0.117 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

Tgt Ion:127 Resp: 3483  
Ion Ratio Lower Upper  
127 100  
129 85.7 26.3 39.5#  
65 15.4 31.1 46.7#  
92 25.4 19.1 28.7







#37

2-Methylnaphthalene

Concen: 13.641 ng

RT: 12.460 min Scan# 1

Delta R.T. -0.005 min

Lab File: BG054361.D

Acq: 22 Jul 2022 15:50

Instrument :

BNA\_G

ClientSampleId :

FRAC-TANK-N48964

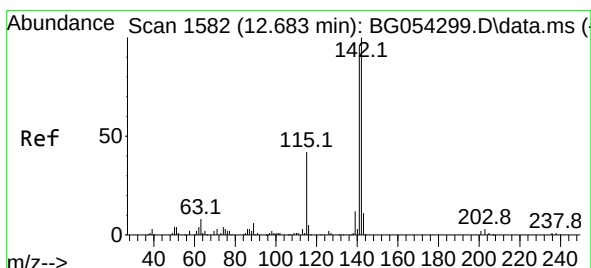
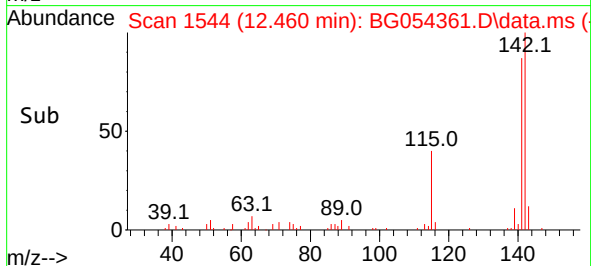
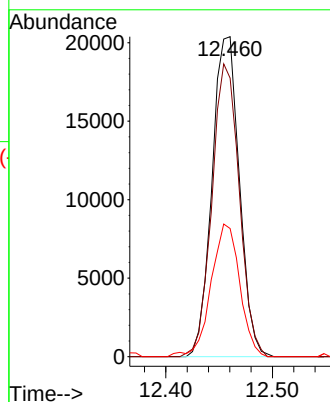
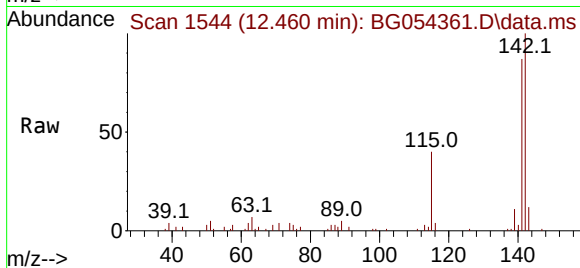
Tgt Ion:142 Resp: 36248

Ion Ratio Lower Upper

142 100

141 87.0 72.3 108.5

115 40.1 33.7 50.5



#38

1-Methylnaphthalene

Concen: 13.999 ng

RT: 12.460 min Scan# 1544

Delta R.T. -0.222 min

Lab File: BG054361.D

Acq: 22 Jul 2022 15:50

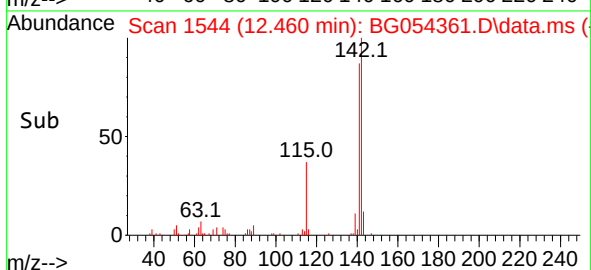
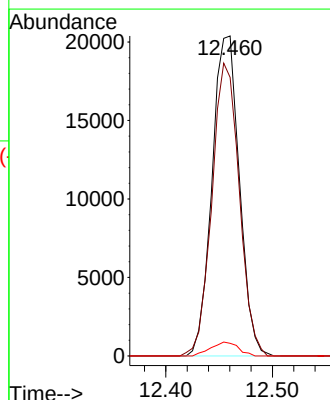
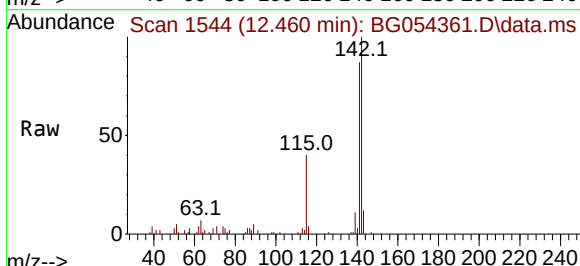
Tgt Ion:142 Resp: 36248

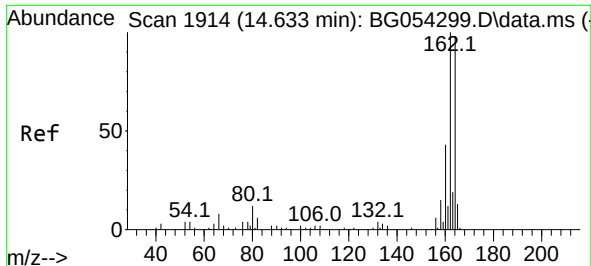
Ion Ratio Lower Upper

142 100

141 87.0 76.4 114.6

116 4.0 3.3 4.9

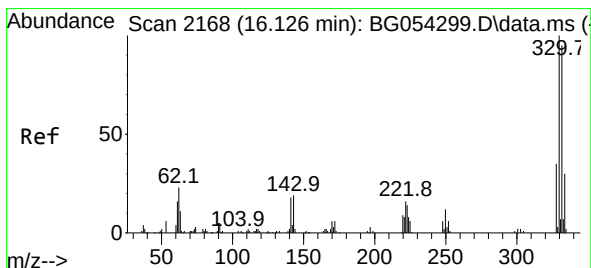
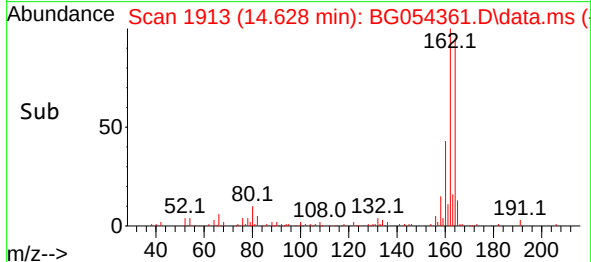
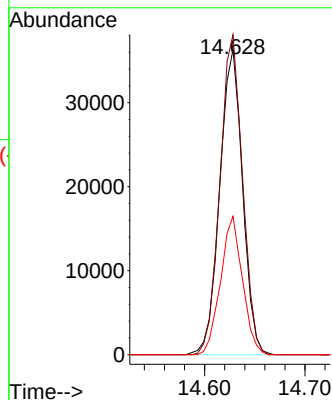
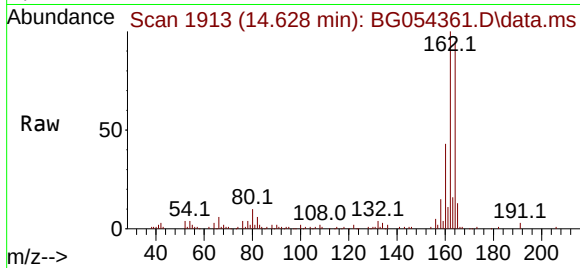




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.628 min Scan# 1913  
Delta R.T. -0.005 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

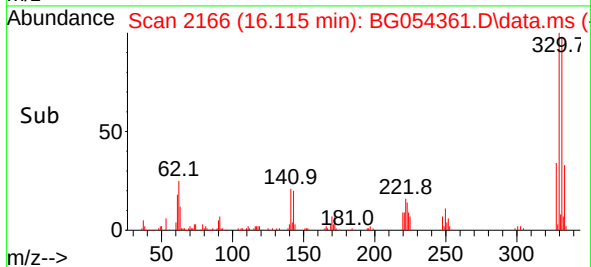
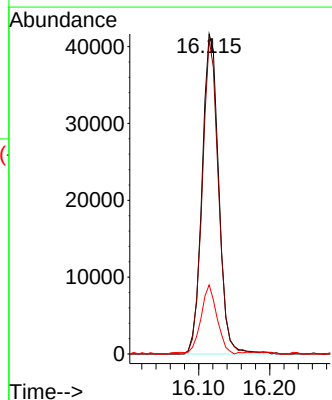
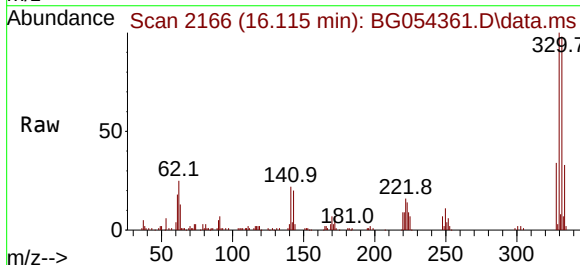
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK-N48964

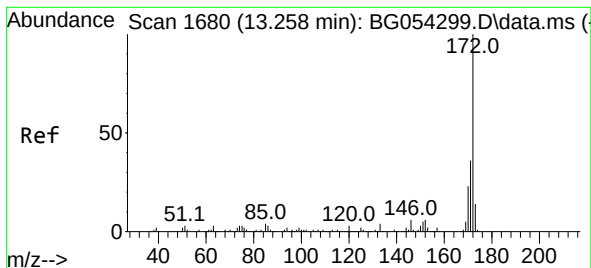
Tgt Ion:164 Resp: 57218  
Ion Ratio Lower Upper  
164 100  
162 104.8 82.3 123.5  
160 45.4 34.2 51.2



#42  
2,4,6-Tribromophenol  
Concen: 56.386 ng  
RT: 16.115 min Scan# 2166  
Delta R.T. -0.011 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

Tgt Ion:330 Resp: 67740  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.0 114.0  
141 21.1 27.1 40.7#





#45

2-Fluorobiphenyl

Concen: 57.157 ng

RT: 13.248 min Scan# 1

Delta R.T. -0.011 min

Lab File: BG054361.D

Acq: 22 Jul 2022 15:50

Instrument :

BNA\_G

ClientSampleId :

FRAC-TANK-N48964

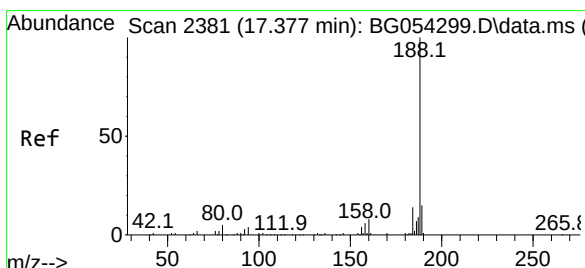
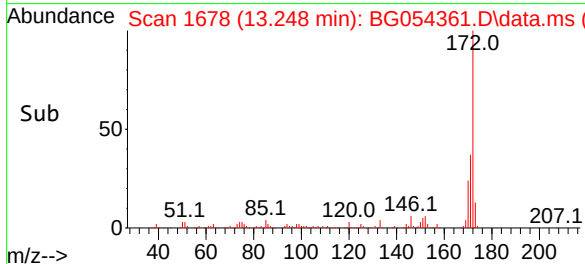
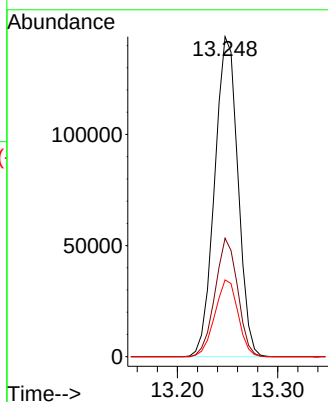
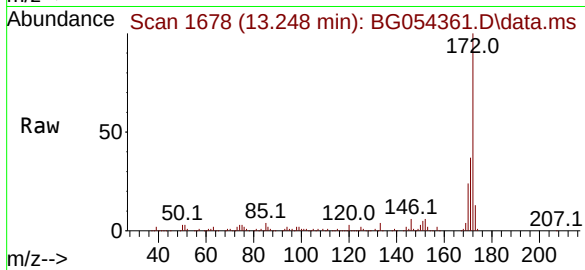
Tgt Ion:172 Resp: 231831

Ion Ratio Lower Upper

172 100

171 37.0 28.5 42.7

170 24.0 18.9 28.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.372 min Scan# 2380

Delta R.T. -0.005 min

Lab File: BG054361.D

Acq: 22 Jul 2022 15:50

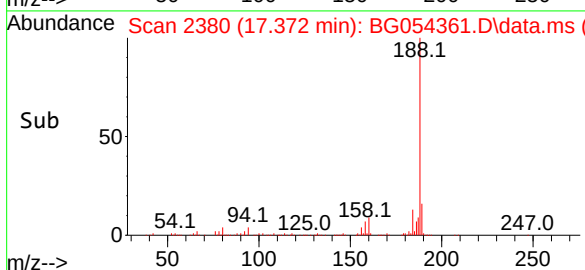
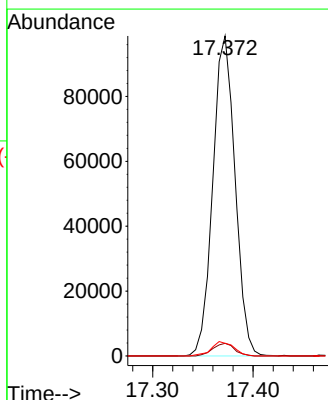
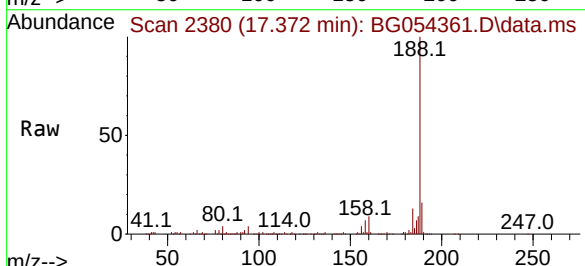
Tgt Ion:188 Resp: 151690

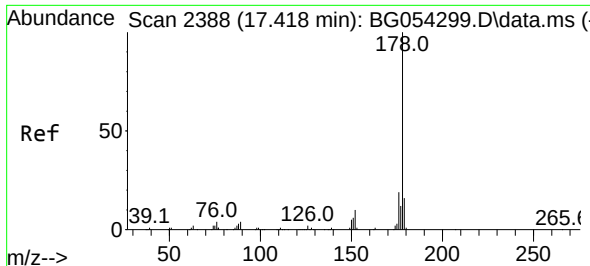
Ion Ratio Lower Upper

188 100

94 4.0 5.4 8.0#

80 4.0 6.8 10.2#

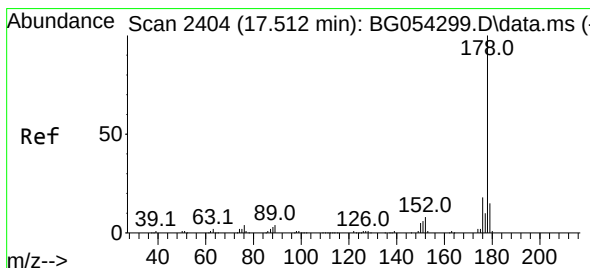
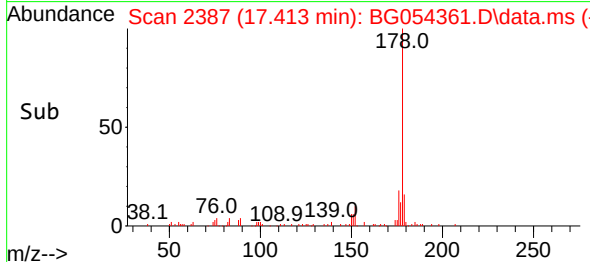
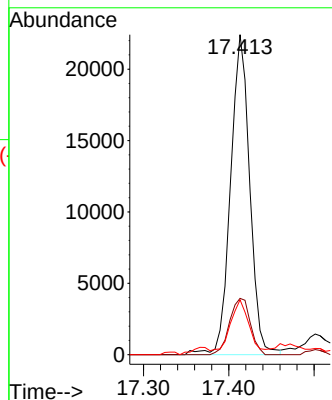
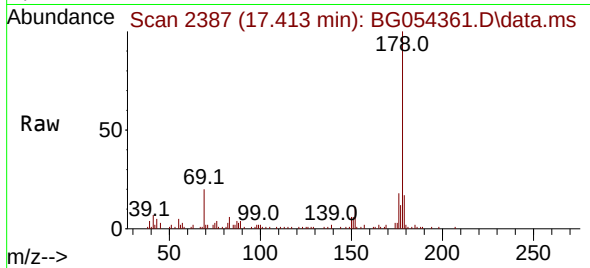




#71  
Phenanthrene  
Concen: 4.650 ng  
RT: 17.413 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

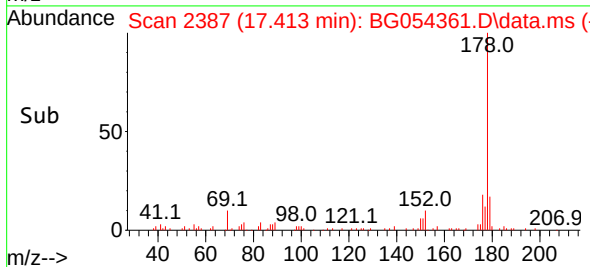
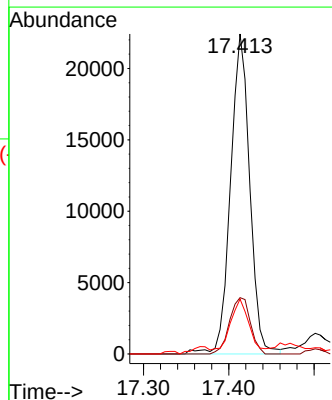
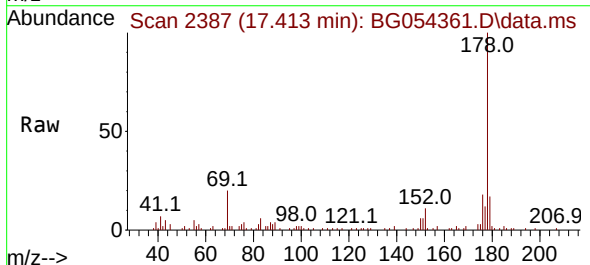
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK-N48964

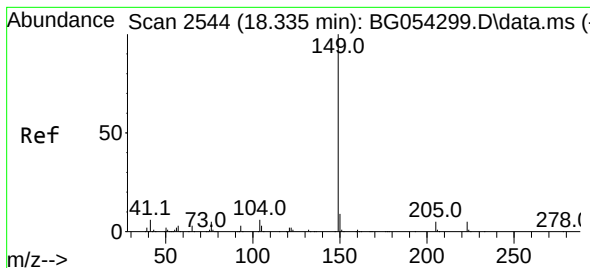
Tgt Ion:178 Resp: 35123  
Ion Ratio Lower Upper  
178 100  
176 17.6 14.1 21.1  
179 17.1 12.1 18.1



#72  
Anthracene  
Concen: 4.738 ng  
RT: 17.413 min Scan# 2387  
Delta R.T. -0.099 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

Tgt Ion:178 Resp: 35123  
Ion Ratio Lower Upper  
178 100  
176 17.6 15.2 22.8  
179 17.1 13.0 19.4





#74

Di-n-butylphthalate

Concen: 9.112 ng

RT: 18.071 min Scan# 24

Delta R.T. -0.264 min

Lab File: BG054361.D

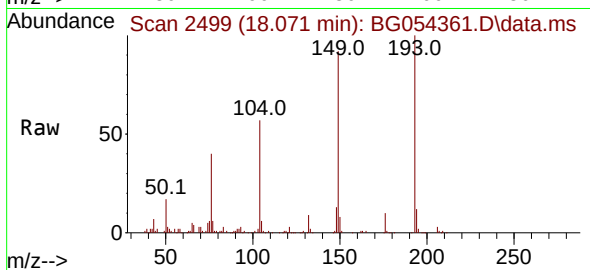
Acq: 22 Jul 2022 15:50

Instrument :

BNA\_G

ClientSampleId :

FRAC-TANK-N48964



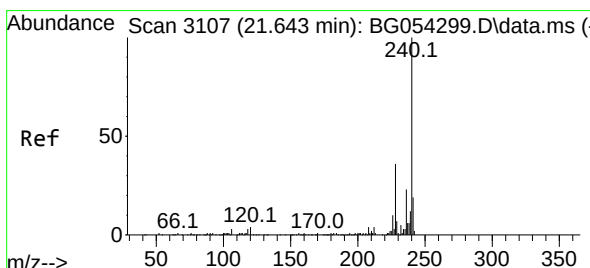
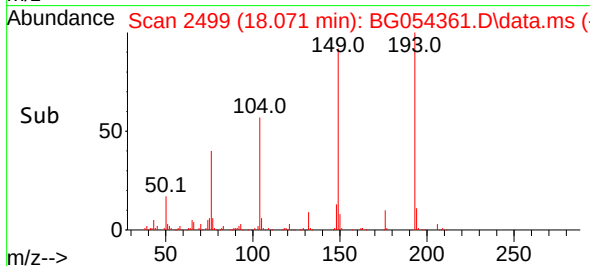
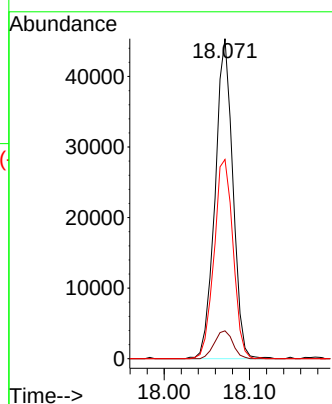
Tgt Ion:149 Resp: 65622

Ion Ratio Lower Upper

149 100

150 8.7 7.7 11.5

104 62.3 5.4 8.0#



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.638 min Scan# 3106

Delta R.T. -0.005 min

Lab File: BG054361.D

Acq: 22 Jul 2022 15:50

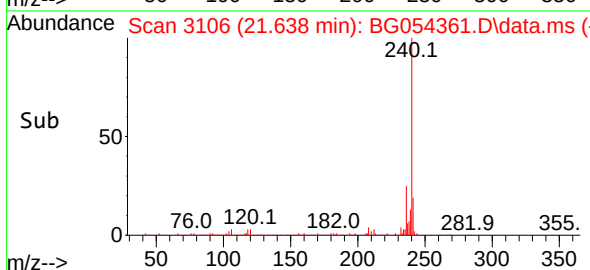
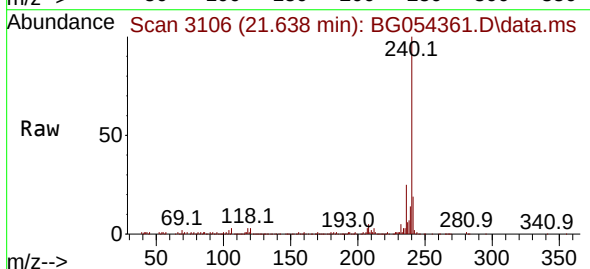
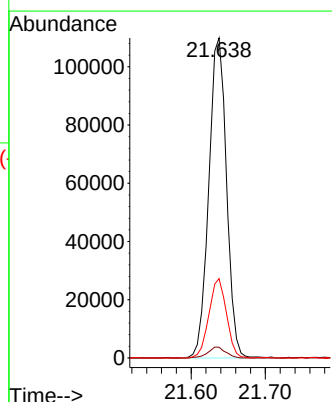
Tgt Ion:240 Resp: 182330

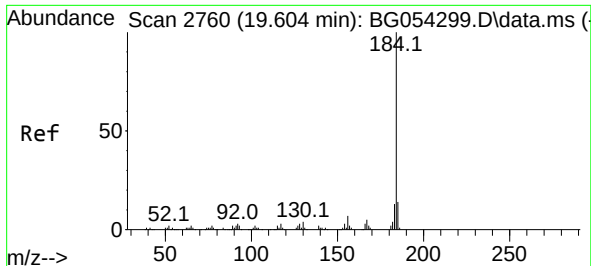
Ion Ratio Lower Upper

240 100

120 3.3 4.6 7.0#

236 24.8 20.2 30.4

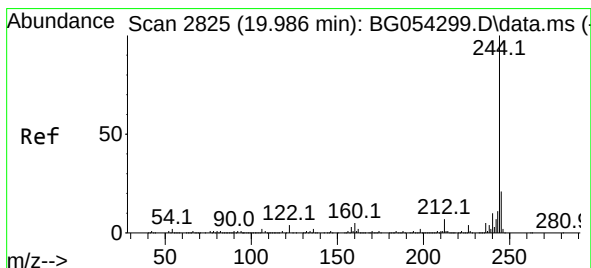
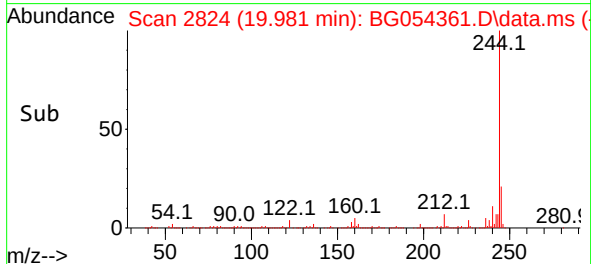
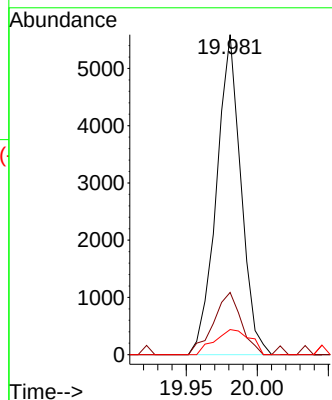
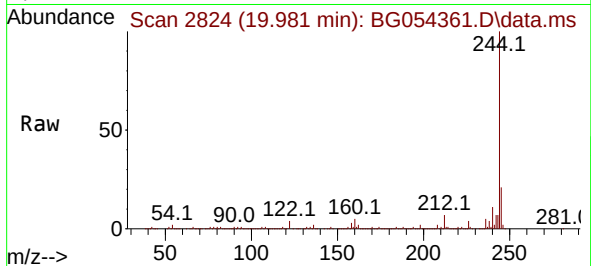




#77  
Benzidine  
Concen: 2.028 ng  
RT: 19.981 min Scan# 21  
Delta R.T. 0.377 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

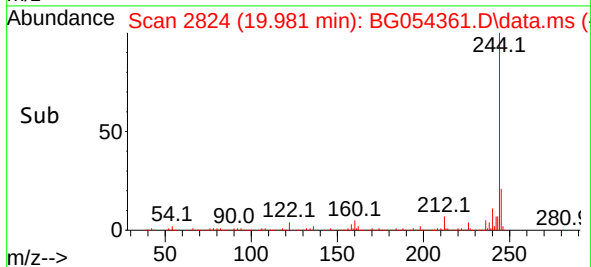
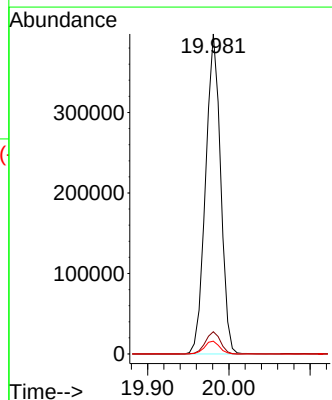
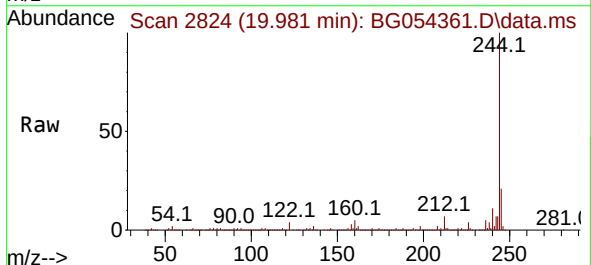
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK-N48964

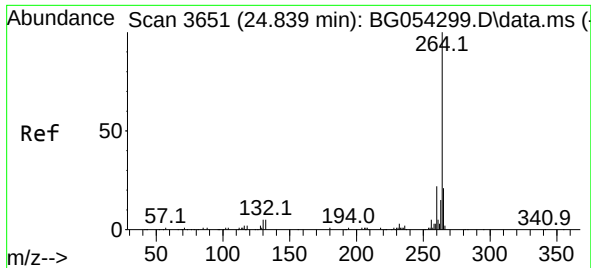
Tgt Ion:184 Resp: 6697  
Ion Ratio Lower Upper  
184 100  
185 19.4 11.8 17.6#  
183 7.8 8.9 13.3#



#79  
Terphenyl-d14  
Concen: 55.436 ng  
RT: 19.981 min Scan# 2824  
Delta R.T. -0.005 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

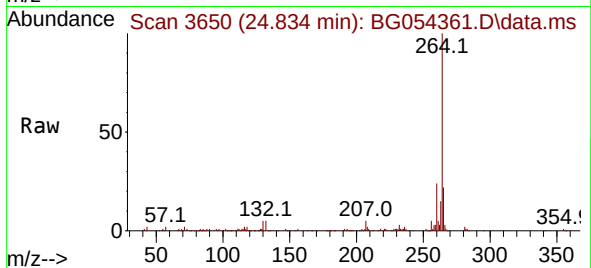
Tgt Ion:244 Resp: 509511  
Ion Ratio Lower Upper  
244 100  
212 7.0 6.5 9.7  
122 4.0 5.0 7.4#





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.834 min Scan# 30  
Delta R.T. -0.005 min  
Lab File: BG054361.D  
Acq: 22 Jul 2022 15:50

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK-N48964



Tgt Ion:264 Resp: 194725  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.6  | 19.0  | 28.6  |
| 265 | 21.8  | 17.4  | 26.2  |

