

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071923\  
 Data File : BF134367.D  
 Acq On : 19 Jul 2023 19:45  
 Operator : CG\JU  
 Sample : 03641-31  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 20 00:44:59 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 14 22:51:27 2023  
 Response via : Initial Calibration

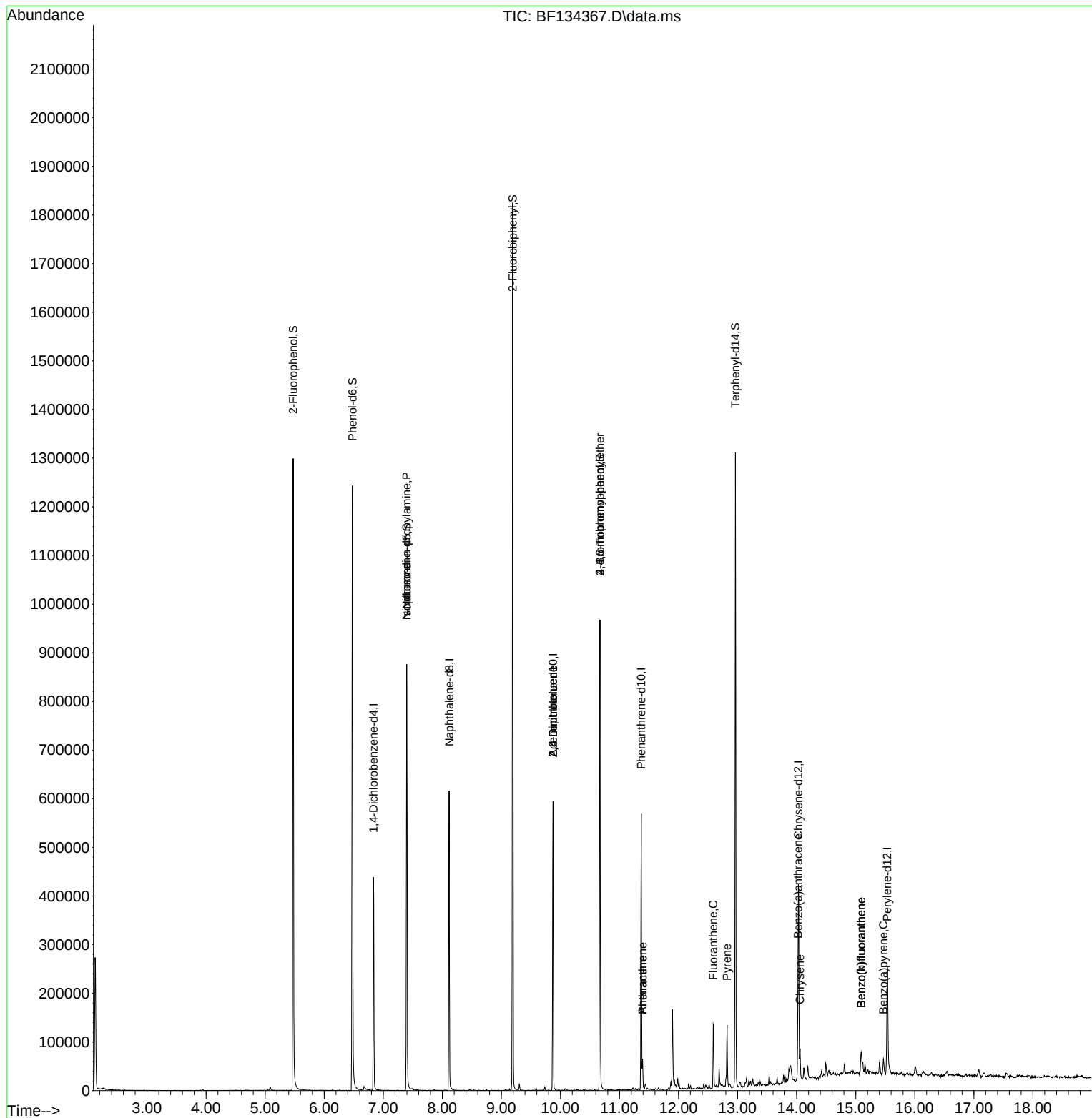
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.834  | 152  | 64700    | 20.000    | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.116  | 136  | 247362   | 20.000    | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.875  | 164  | 115777   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.369 | 188  | 193284   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 14.027 | 240  | 136708   | 20.000    | ng    | -0.01    |
| 86) Perylene-d12              | 15.533 | 264  | 110281   | 20.000    | ng    | -0.01    |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.475  | 112  | 317570   | 82.105    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.481  | 99   | 388378   | 81.649    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.398  | 82   | 252521   | 55.030    | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.669 | 330  | 114083   | 78.591    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.192  | 172  | 484164   | 60.800    | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.963 | 244  | 431954   | 50.853    | ng    | -0.01    |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.481  | 77   | 809      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propyla... | 7.398  | 70   | 35347    | 11.718    | ng    | # 78     |
| 25) Isophorone                | 7.398  | 82   | 252519   | 30.279    | ng    | # 64     |
| 51) 2,6-Dinitrotoluene        | 9.875  | 165  | 15551    | 8.591     | ng    | # 24     |
| 57) 2,4-Dinitrotoluene        | 9.875  | 165  | 15551    | 6.505     | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether | 10.669 | 248  | 6820     | 3.320     | ng    | # 1      |
| 71) Phenanthrene              | 11.392 | 178  | 21315    | 2.191     | ng    | 98       |
| 72) Anthracene                | 11.392 | 178  | 21315    | 2.106     | ng    | 97       |
| 75) Fluoranthene              | 12.586 | 202  | 55559    | 5.282     | ng    | 96       |
| 78) Pyrene                    | 12.821 | 202  | 50395    | 3.961     | ng    | 95       |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 24751    | 2.611     | ng    | 99       |
| 83) Chrysene                  | 14.057 | 228  | 23524    | 2.562     | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.092 | 252  | 33030    | 5.094     | ng    | # 92     |
| 89) Benzo(k)fluoranthene      | 15.092 | 252  | 33030    | 5.003     | ng    | # 91     |
| 90) Benzo(a)pyrene            | 15.468 | 252  | 15521    | 2.475     | ng    | 99       |
| -----                         |        |      |          |           |       |          |

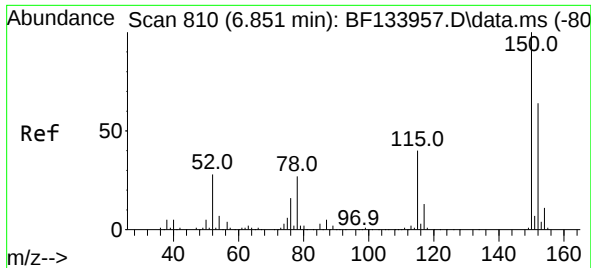
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071923\  
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Sample : 03641-31  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

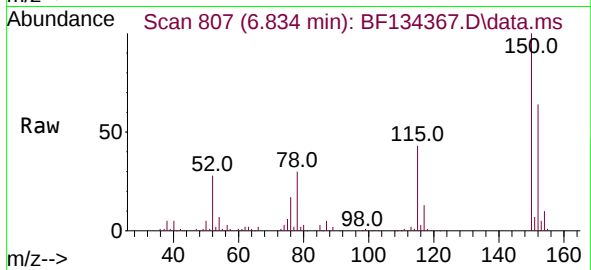
Quant Time: Jul 20 00:44:59 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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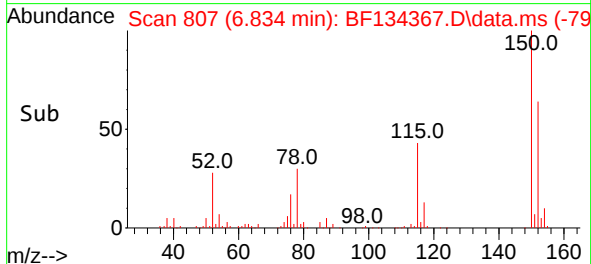
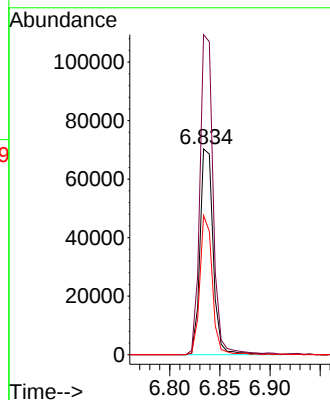


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.834 min Scan# 80  
Delta R.T. -0.011 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Instrument :  
BNA\_F  
ClientSampleId :

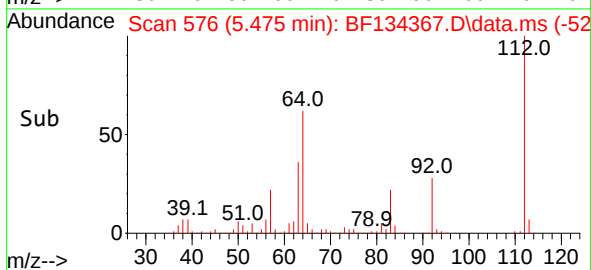
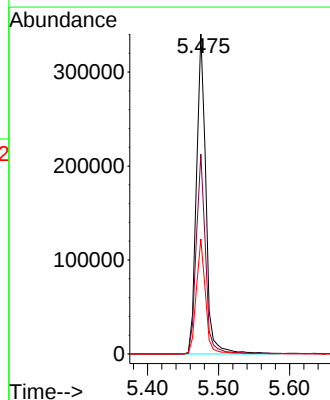
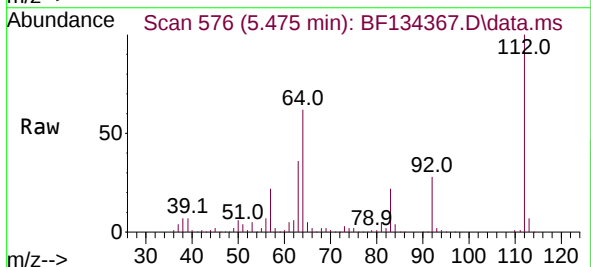


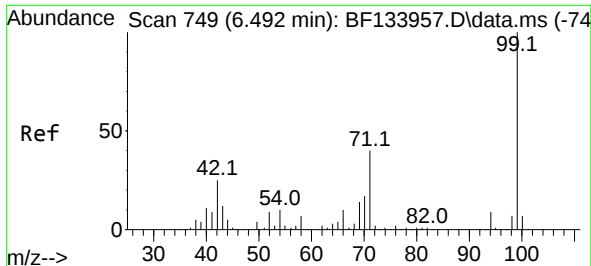
Tgt Ion:152 Resp: 64700  
Ion Ratio Lower Upper  
152 100  
150 155.5 124.5 186.7  
115 67.6 50.2 75.2



#5  
2-Fluorophenol  
Concen: 82.105 ng  
RT: 5.475 min Scan# 576  
Delta R.T. 0.006 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Tgt Ion:112 Resp: 317570  
Ion Ratio Lower Upper  
112 100  
64 62.4 52.1 78.1  
63 35.9 28.6 42.8





#7

Phenol-d6

Concen: 81.649 ng

RT: 6.481 min Scan# 74

Delta R.T. -0.006 min

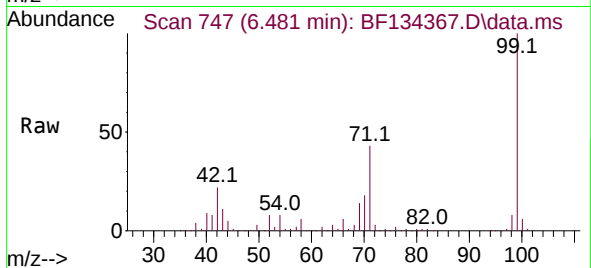
Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

Instrument :

BNA\_F

ClientSampleId :



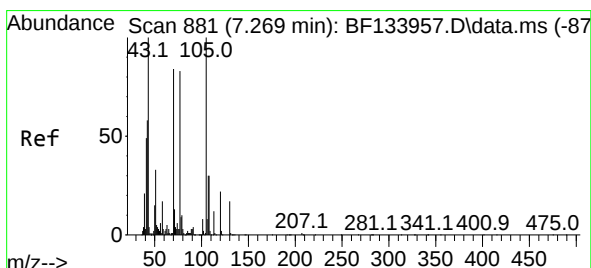
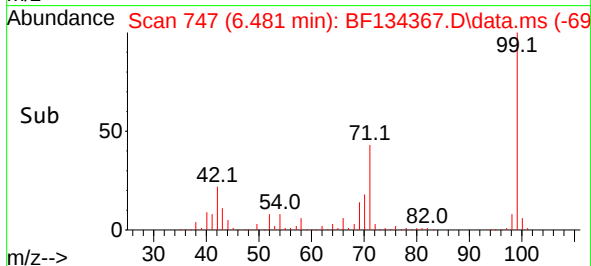
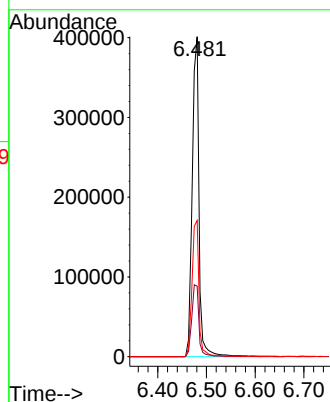
Tgt Ion: 99 Resp: 388378

Ion Ratio Lower Upper

99 100

42 22.1 19.8 29.6

71 42.6 31.9 47.9



#19

n-Nitroso-di-n-propylamine

Concen: 11.718 ng

RT: 7.398 min Scan# 903

Delta R.T. 0.141 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

Tgt Ion: 70 Resp: 35347

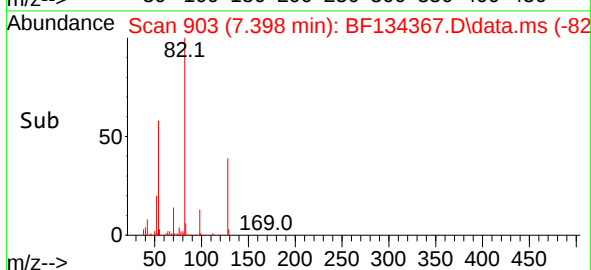
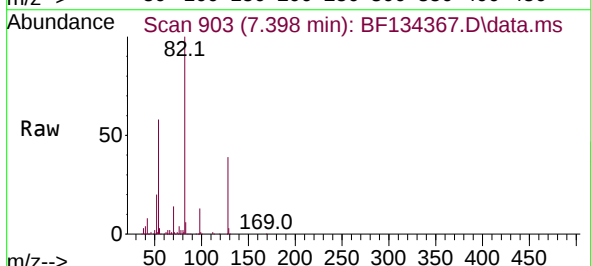
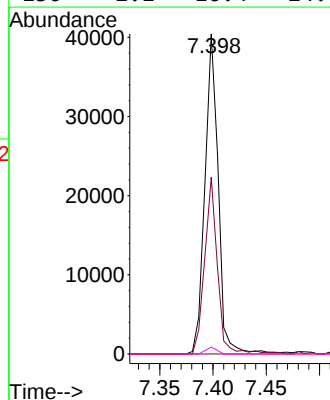
Ion Ratio Lower Upper

70 100

42 55.2 54.7 82.1

101 0.0 7.7 11.5#

130 2.1 16.4 24.6#



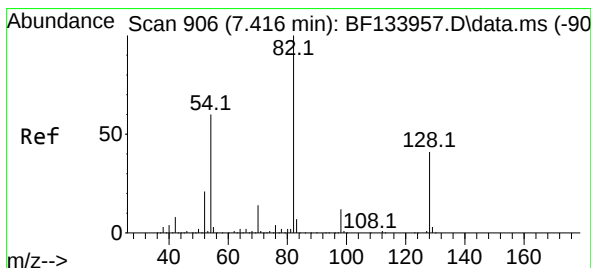
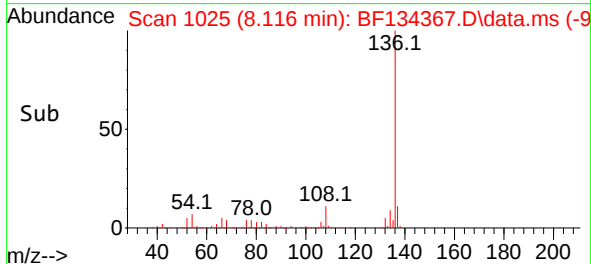
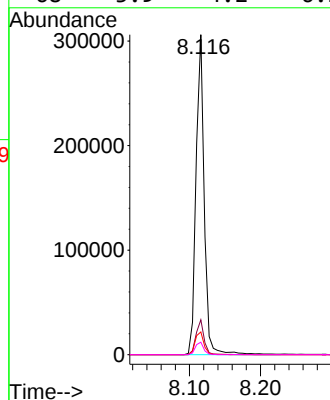
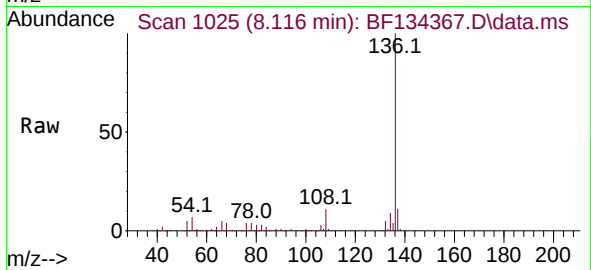


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:136 Resp: 247362

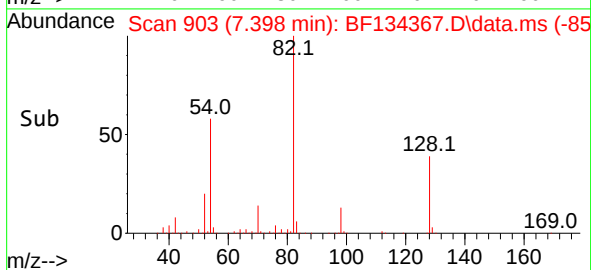
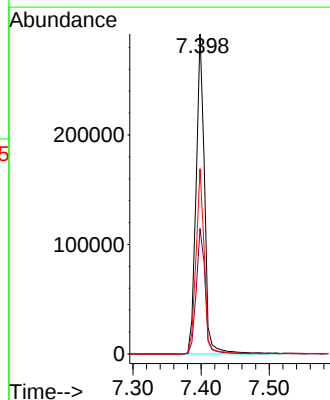
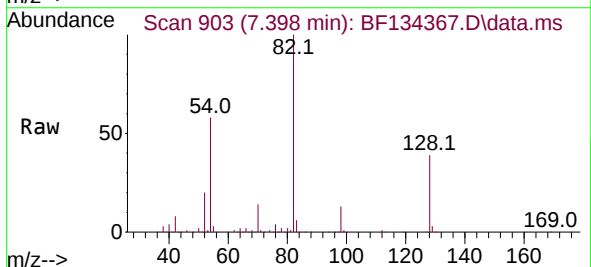
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.6   | 12.8  |
| 54  | 7.1   | 6.5   | 9.7   |
| 68  | 3.9   | 4.2   | 6.2   |

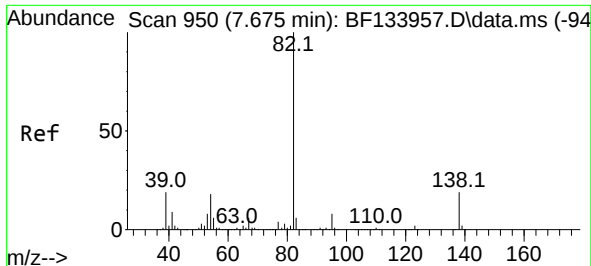


#23  
Nitrobenzene-d5  
Concen: 55.030 ng  
RT: 7.398 min Scan# 903  
Delta R.T. -0.012 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Tgt Ion: 82 Resp: 252521

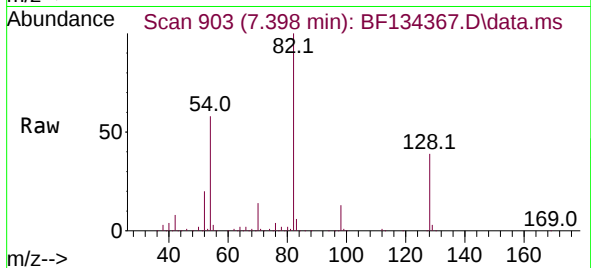
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 39.2  | 32.5  | 48.7  |
| 54  | 57.9  | 48.2  | 72.2  |



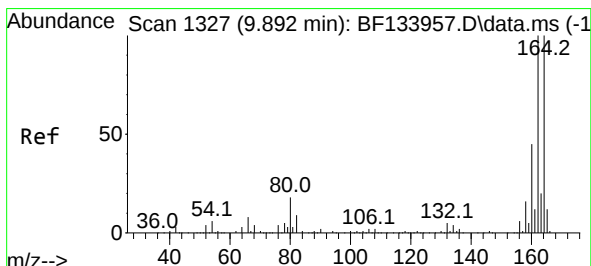
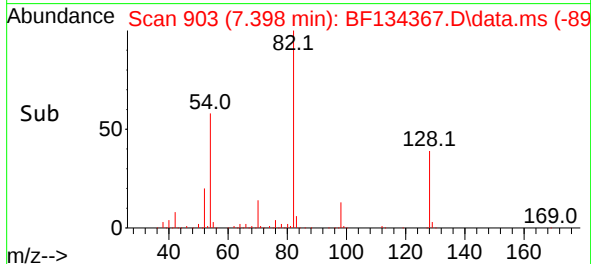
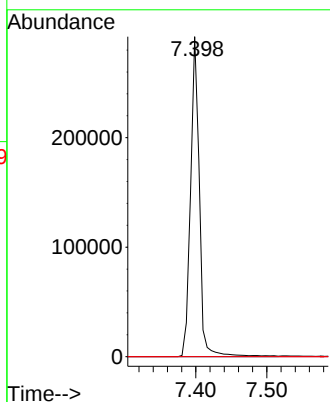


#25  
Isophorone  
Concen: 30.279 ng  
RT: 7.398 min Scan# 90  
Delta R.T. -0.265 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Instrument :  
BNA\_F  
ClientSampleId :

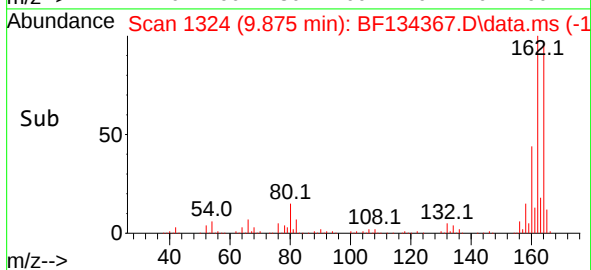
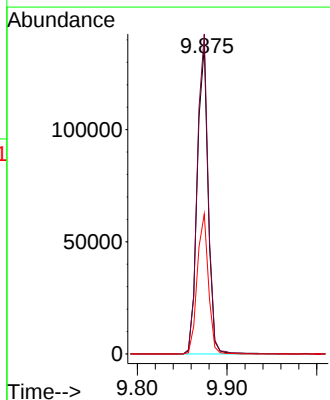
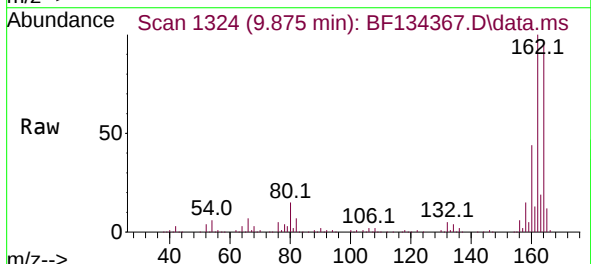


Tgt Ion: 82 Resp: 252519  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.1 9.1#  
138 0.0 15.2 22.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.875 min Scan# 1324  
Delta R.T. -0.006 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

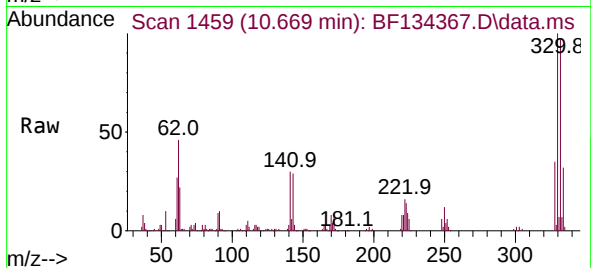
Tgt Ion: 164 Resp: 115777  
Ion Ratio Lower Upper  
164 100  
162 104.0 80.0 120.0  
160 45.5 35.9 53.9



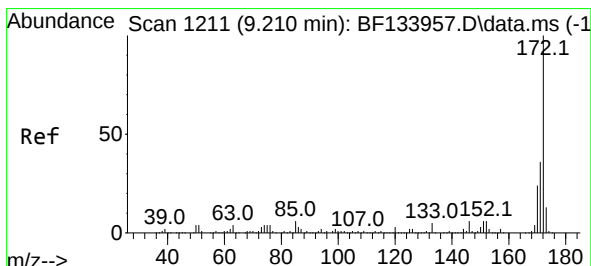
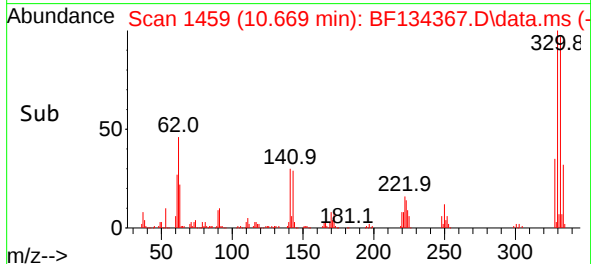
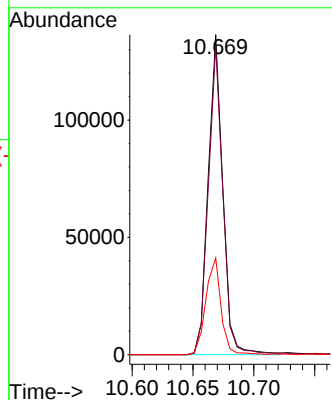


#42  
2,4,6-Tribromophenol  
Concen: 78.591 ng  
RT: 10.669 min Scan# 1462  
Delta R.T. -0.012 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Instrument :  
BNA\_F  
ClientSampleId :

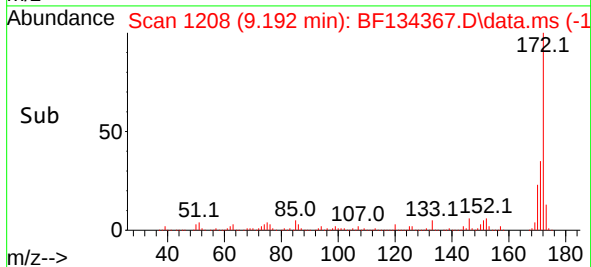
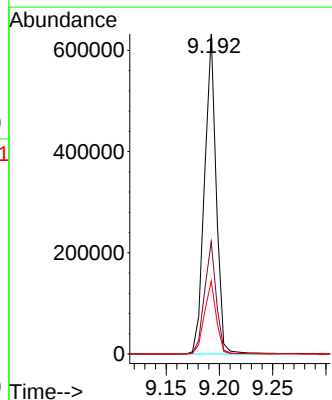
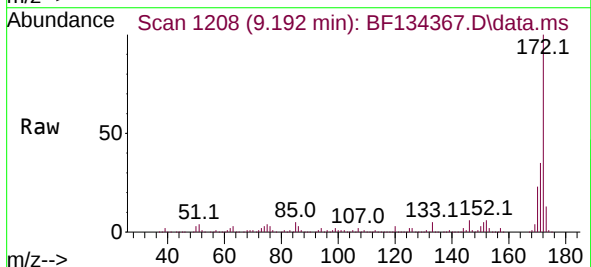


Tgt Ion: 330 Resp: 114083  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.0 115.6  
141 31.4 26.3 39.5



#45  
2-Fluorobiphenyl  
Concen: 60.800 ng  
RT: 9.192 min Scan# 1208  
Delta R.T. -0.012 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Tgt Ion: 172 Resp: 484164  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.6 43.0  
170 22.8 19.4 29.0

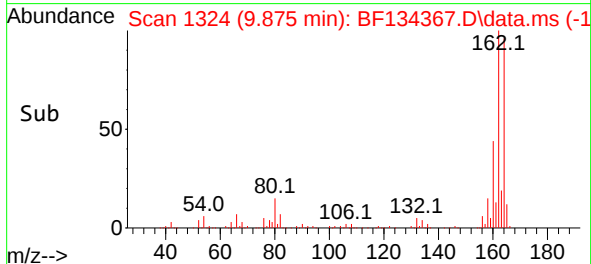
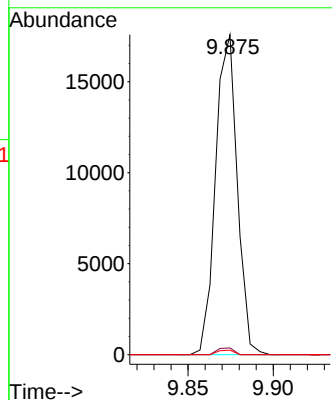
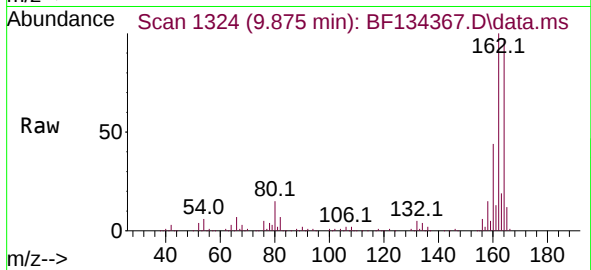




#51  
2,6-Dinitrotoluene  
Concen: 8.591 ng  
RT: 9.875 min Scan# 11  
Delta R.T. 0.200 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

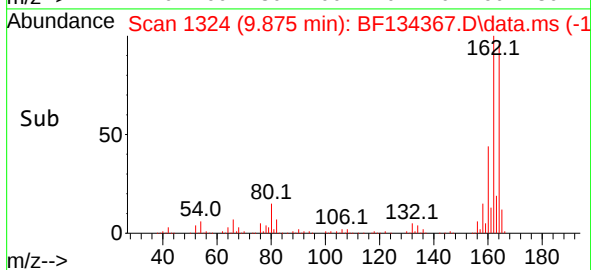
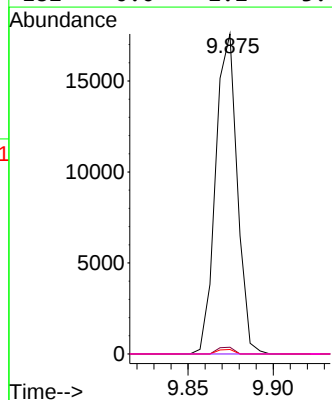
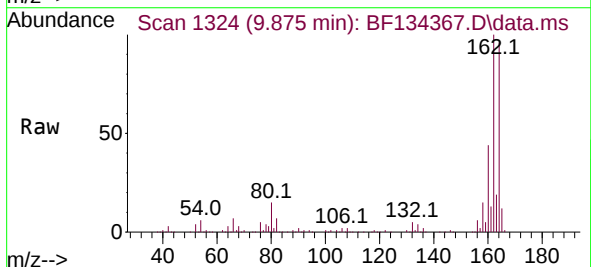
Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:165 Resp: 15551  
Ion Ratio Lower Upper  
165 100  
63 2.1 48.5 72.7#  
89 1.4 45.5 68.3#



#57  
2,4-Dinitrotoluene  
Concen: 6.505 ng  
RT: 9.875 min Scan# 1324  
Delta R.T. -0.206 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Tgt Ion:165 Resp: 15551  
Ion Ratio Lower Upper  
165 100  
63 2.1 42.2 63.2#  
89 1.4 57.4 86.2#  
182 0.0 2.2 3.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.369 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

Instrument :

BNA\_F

ClientSampleId :

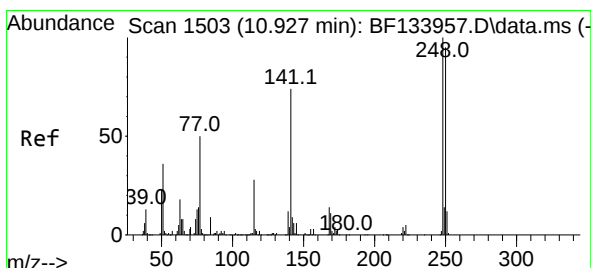
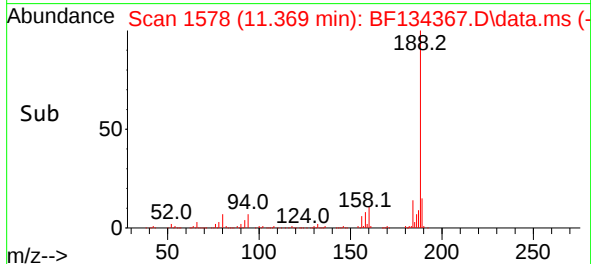
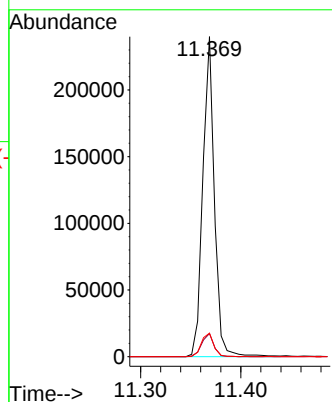
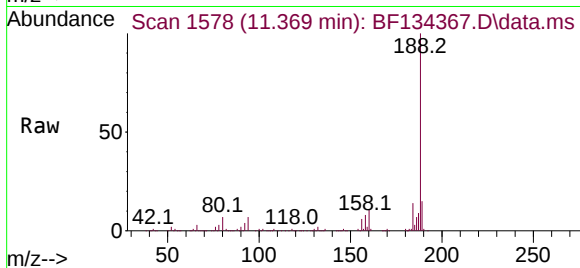
Tgt Ion:188 Resp: 193284

Ion Ratio Lower Upper

188 100

94 7.3 6.4 9.6

80 7.3 7.3 10.9



#67

4-Bromophenyl-phenylether

Concen: 3.320 ng

RT: 10.669 min Scan# 1459

Delta R.T. -0.247 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

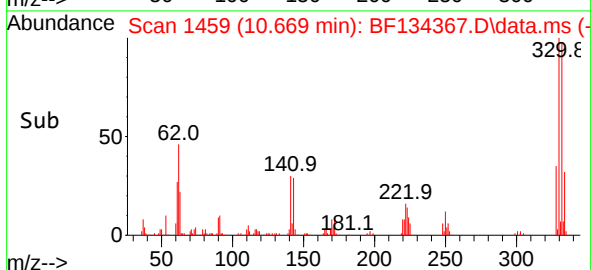
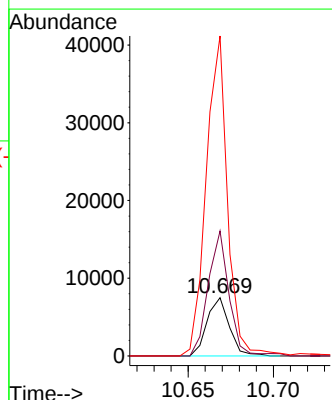
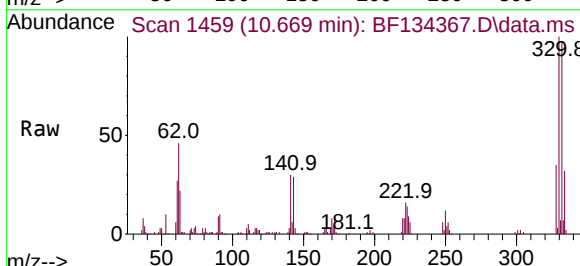
Tgt Ion:248 Resp: 6820

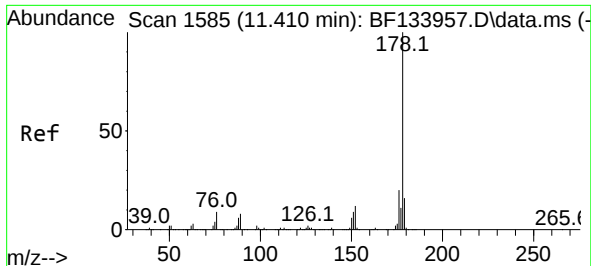
Ion Ratio Lower Upper

248 100

250 214.3 76.2 114.4#

141 548.8 59.0 88.4#

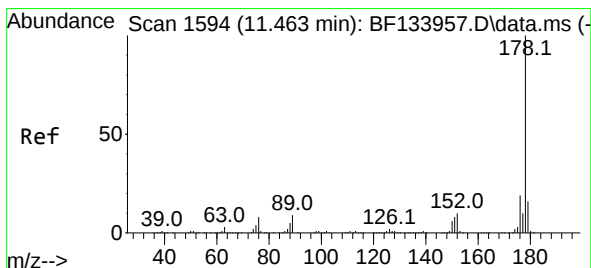
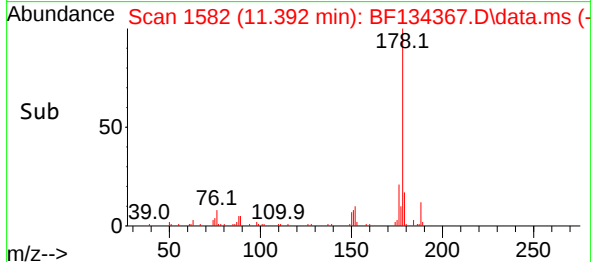
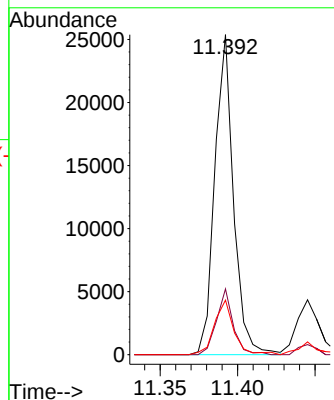
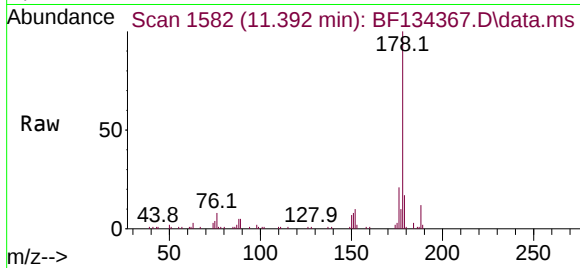




#71  
Phenanthrene  
Concen: 2.191 ng  
RT: 11.392 min Scan# 1582  
Delta R.T. -0.012 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

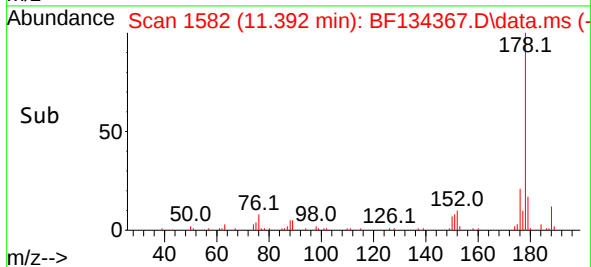
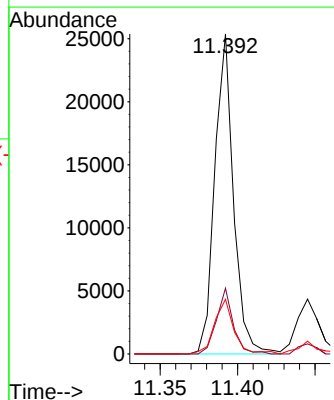
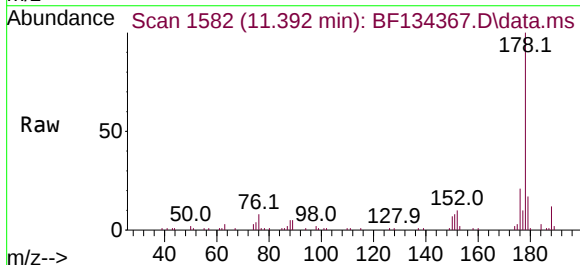
Instrument :  
BNA\_F  
ClientSampleId :

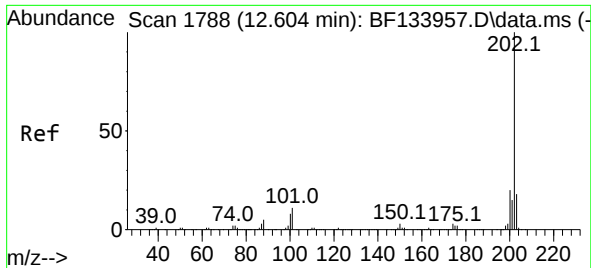
Tgt Ion:178 Resp: 21315  
Ion Ratio Lower Upper  
178 100  
176 20.6 16.0 24.0  
179 17.1 12.4 18.6



#72  
Anthracene  
Concen: 2.106 ng  
RT: 11.392 min Scan# 1582  
Delta R.T. -0.065 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Tgt Ion:178 Resp: 21315  
Ion Ratio Lower Upper  
178 100  
176 20.6 15.3 22.9  
179 17.1 12.4 18.6

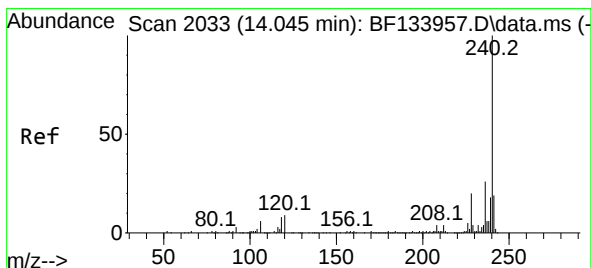
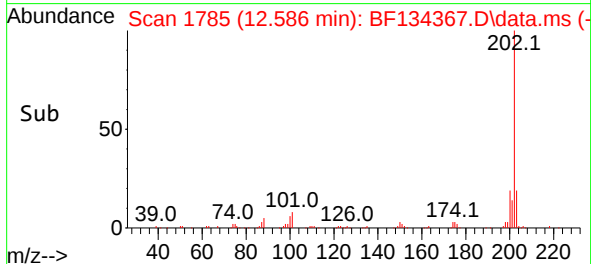
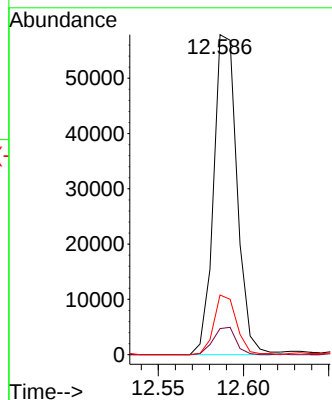
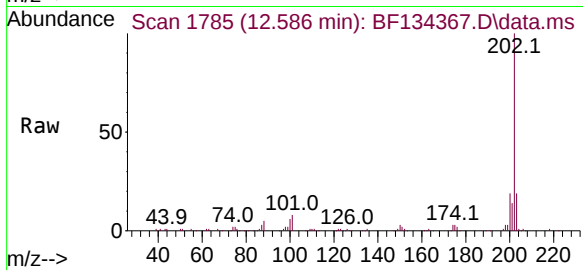




#75  
Fluoranthene  
Concen: 5.282 ng  
RT: 12.586 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

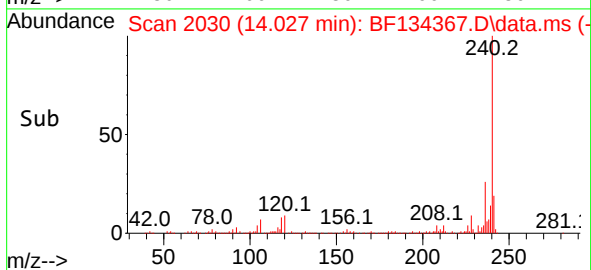
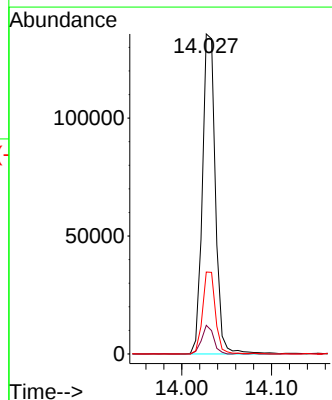
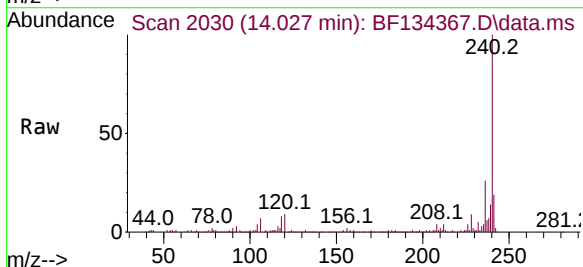
Instrument :  
BNA\_F  
ClientSampleId :

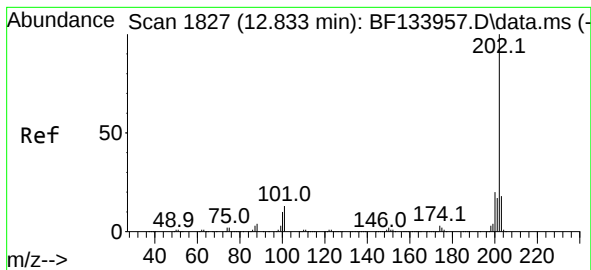
Tgt Ion:202 Resp: 55559  
Ion Ratio Lower Upper  
202 100  
101 8.1 0.0 31.0  
203 18.7 0.0 37.6



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. -0.012 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

Tgt Ion:240 Resp: 136708  
Ion Ratio Lower Upper  
240 100  
120 8.9 7.4 11.0  
236 25.6 21.0 31.6





#78

Pyrene

Concen: 3.961 ng

RT: 12.821 min Scan# 1825

Delta R.T. -0.012 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

Instrument :

BNA\_F

ClientSampleId :

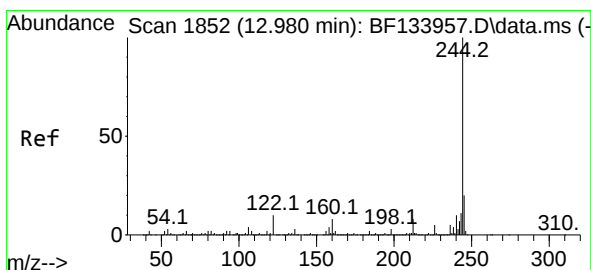
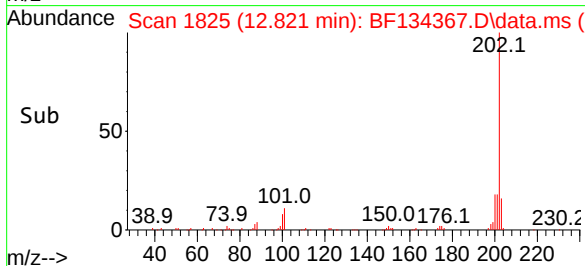
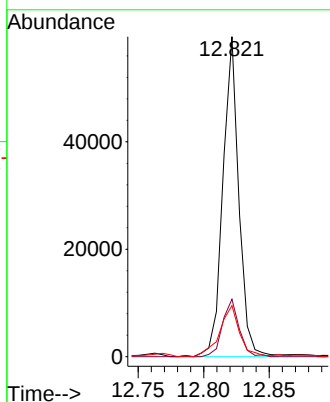
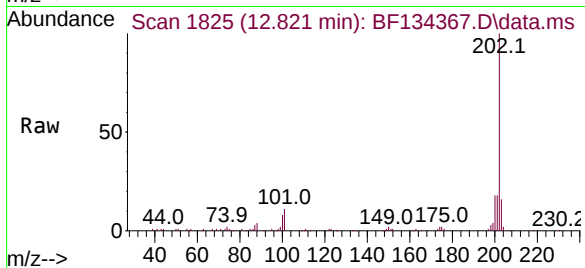
Tgt Ion:202 Resp: 50395

Ion Ratio Lower Upper

202 100

200 18.0 16.1 24.1

203 16.0 14.3 21.5



#79

Terphenyl-d14

Concen: 50.853 ng

RT: 12.963 min Scan# 1849

Delta R.T. -0.012 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

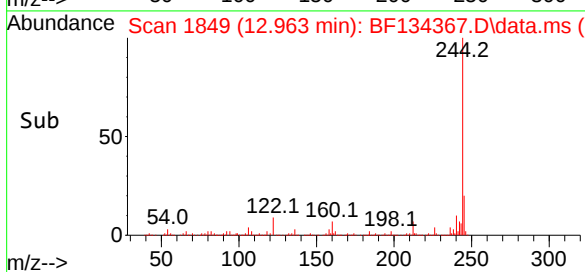
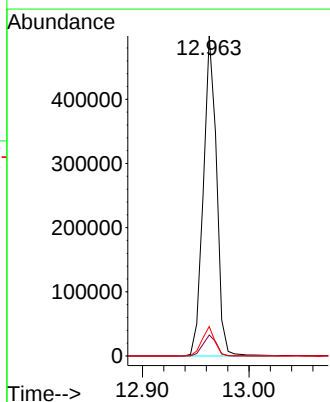
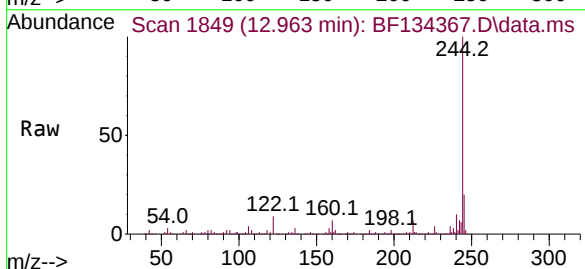
Tgt Ion:244 Resp: 431954

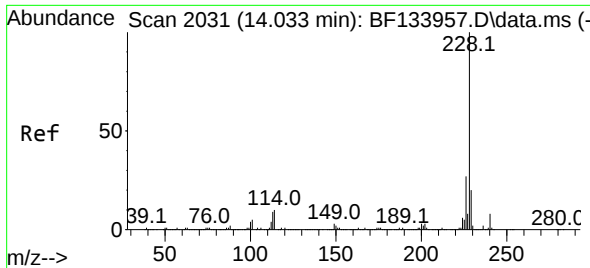
Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

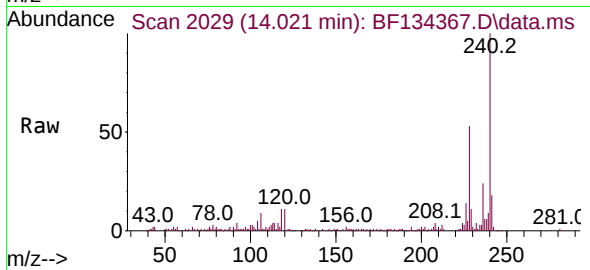
122 9.2 8.3 12.5



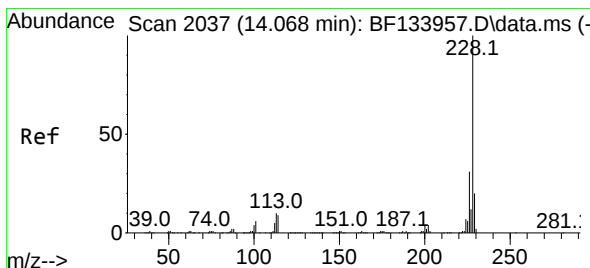
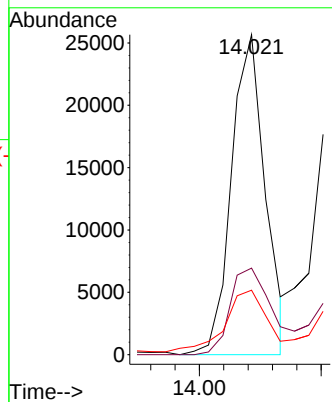
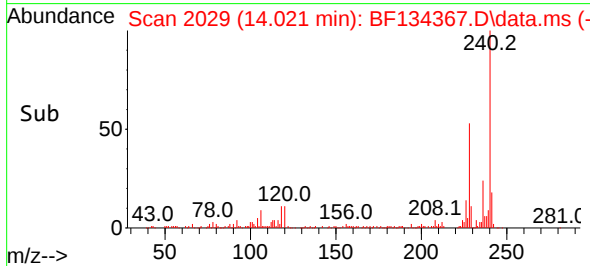


#81  
Benzo(a)anthracene  
Concen: 2.611 ng  
RT: 14.021 min Scan# 2029  
Delta R.T. -0.006 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45

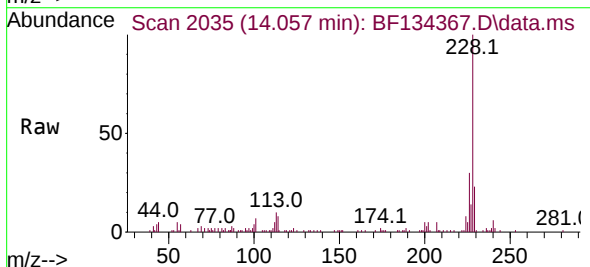
Instrument :  
BNA\_F  
ClientSampleId :



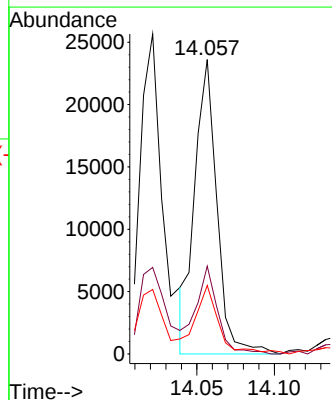
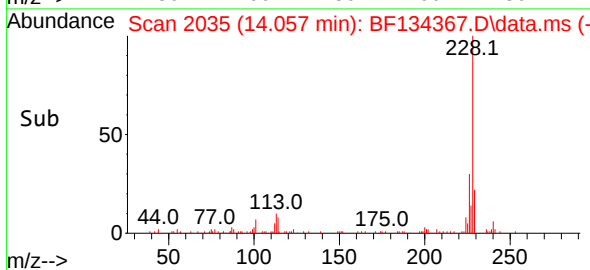
Tgt Ion:228 Resp: 24751  
Ion Ratio Lower Upper  
228 100  
226 27.1 22.0 33.0  
229 20.2 16.3 24.5

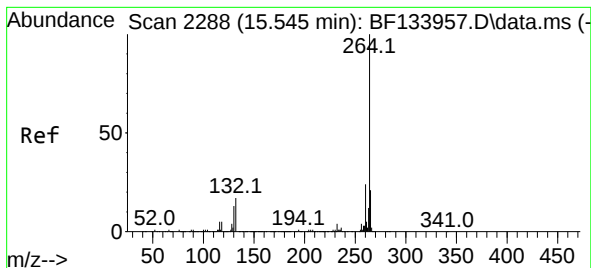


#83  
Chrysene  
Concen: 2.562 ng  
RT: 14.057 min Scan# 2035  
Delta R.T. -0.012 min  
Lab File: BF134367.D  
Acq: 19 Jul 2023 19:45



Tgt Ion:228 Resp: 23524  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.4 36.6  
229 23.3 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 2111

Delta R.T. -0.012 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

Instrument :

BNA\_F

ClientSampleId :

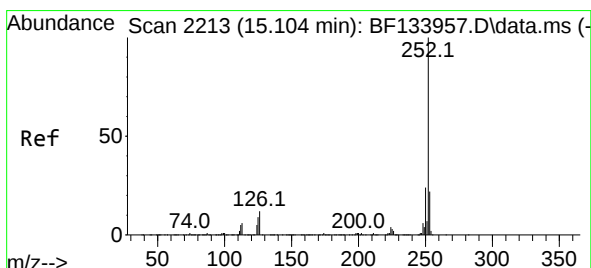
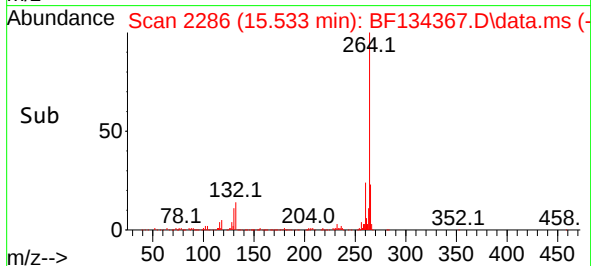
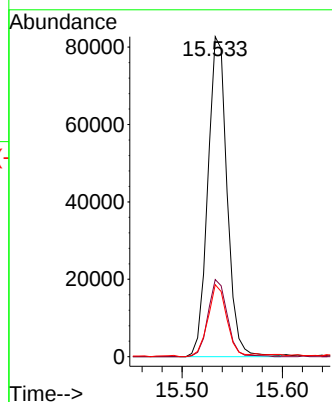
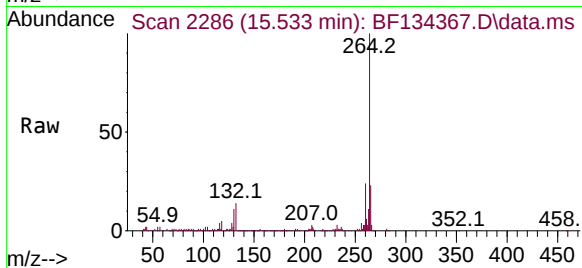
Tgt Ion:264 Resp: 110281

Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

265 22.5 16.6 25.0



#88

Benzo(b)fluoranthene

Concen: 5.094 ng

RT: 15.092 min Scan# 2211

Delta R.T. -0.012 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

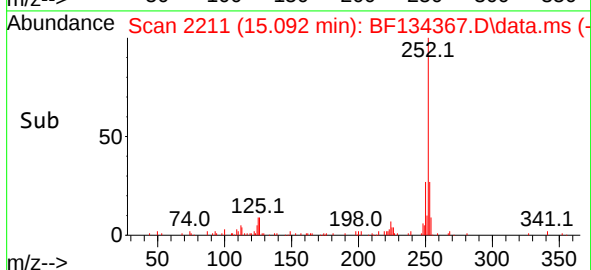
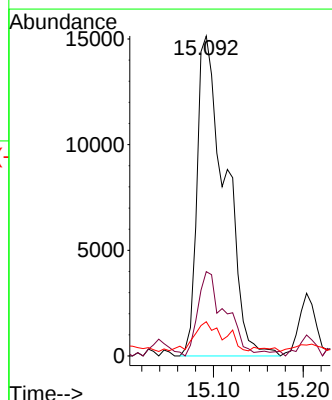
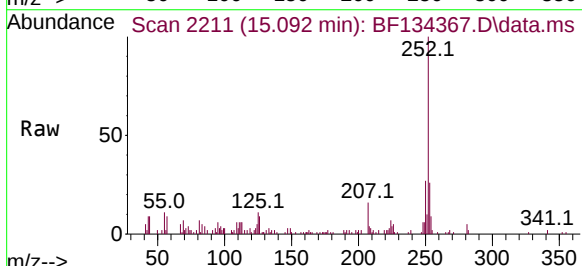
Tgt Ion:252 Resp: 33030

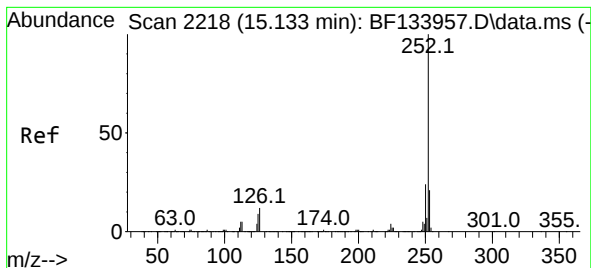
Ion Ratio Lower Upper

252 100

253 26.3 17.4 26.0#

125 10.7 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 5.003 ng

RT: 15.092 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

Instrument :

BNA\_F

ClientSampleId :

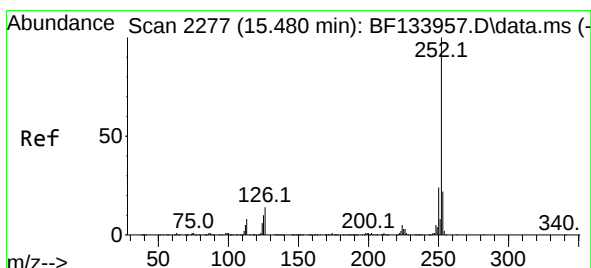
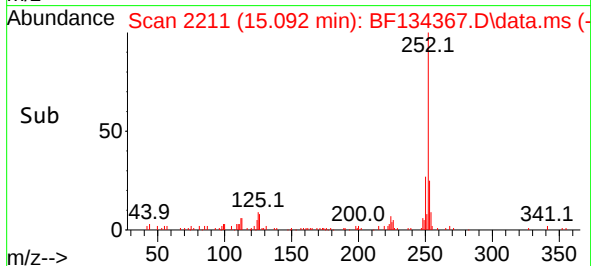
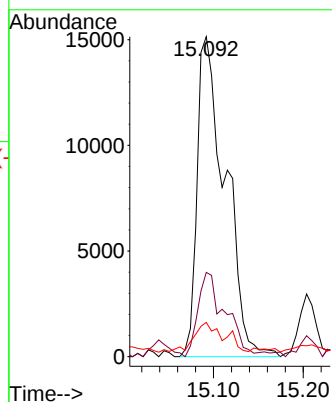
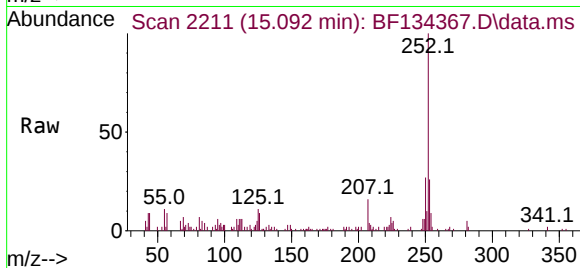
Tgt Ion:252 Resp: 33030

Ion Ratio Lower Upper

252 100

253 26.3 16.9 25.3#

125 10.7 7.4 11.2



#90

Benzo(a)pyrene

Concen: 2.475 ng

RT: 15.468 min Scan# 2275

Delta R.T. -0.012 min

Lab File: BF134367.D

Acq: 19 Jul 2023 19:45

Tgt Ion:252 Resp: 15521

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

125 11.0 8.4 12.6

