

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF070925\  
 Data File : BF143064.D  
 Acq On : 09 Jul 2025 19:02  
 Operator : RC/JU  
 Sample : Q2487-09 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

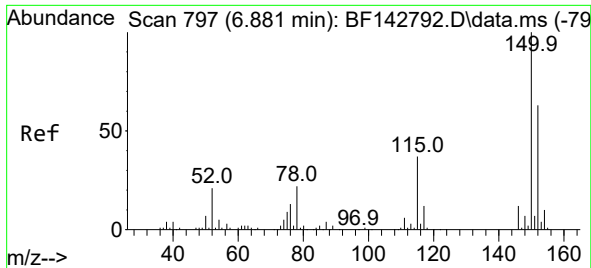
Instrument :  
 BNA\_F  
 ClientSampleId :  
 G4(0-6)

Quant Time: Jul 10 00:57:12 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 24 05:28:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 45424    | 20.000 | ng     | -0.01    |
| 21) Naphthalene-d8            | 8.157  | 136  | 161547   | 20.000 | ng     | -0.01    |
| 39) Acenaphthene-d10          | 9.910  | 164  | 75920    | 20.000 | ng     | -0.01    |
| 64) Phenanthrene-d10          | 11.404 | 188  | 131498   | 20.000 | ng     | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 133783   | 20.000 | ng     | 0.00     |
| 86) Perylene-d12              | 15.545 | 264  | 89246    | 20.000 | ng     | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 84686    | 31.040 | ng     | 0.00     |
| 7) Phenol-d6                  | 6.498  | 99   | 96768    | 30.063 | ng     | -0.01    |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 57466    | 19.512 | ng     | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 20533    | 26.282 | ng     | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.227  | 172  | 113964   | 19.720 | ng     | -0.02    |
| 79) Terphenyl-d14             | 12.986 | 244  | 129438   | 13.368 | ng     | -0.01    |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 19) n-Nitroso-di-n-propyla... | 7.434  | 70   | 7855     | 4.196  | ng     | # 75     |
| 25) Isophorone                | 7.434  | 82   | 57465    | 12.163 | ng     | # 62     |
| 51) 2,6-Dinitrotoluene        | 9.910  | 165  | 10108    | 9.366  | ng     | # 26     |
| 57) 2,4-Dinitrotoluene        | 9.910  | 165  | 10108    | 7.051  | ng     | # 26     |
| 71) Phenanthrene              | 11.427 | 178  | 28702    | 4.029  | ng     | 99       |
| 75) Fluoranthene              | 12.621 | 202  | 52822    | 7.814  | ng     | 100      |
| 78) Pyrene                    | 12.851 | 202  | 49643    | 3.959  | ng     | 98       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 27541    | 3.052  | ng     | # 93     |
| 83) Chrysene                  | 14.074 | 228  | 23616    | 2.932  | ng     | # 95     |
| 88) Benzo(b)fluoranthene      | 15.109 | 252  | 29427    | 5.698  | ng     | # 85     |
| 89) Benzo(k)fluoranthene      | 15.109 | 252  | 29427    | 6.091  | ng     | # 85     |
| 90) Benzo(a)pyrene            | 15.480 | 252  | 14717    | 2.950  | ng     | # 93     |
| -----                         |        |      |          |        |        |          |

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

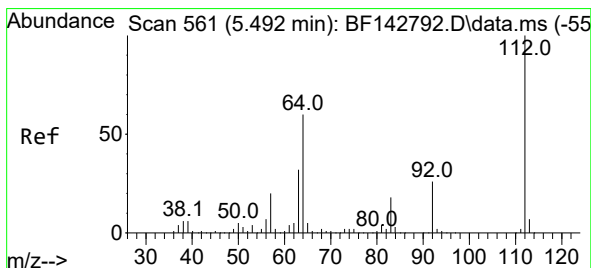
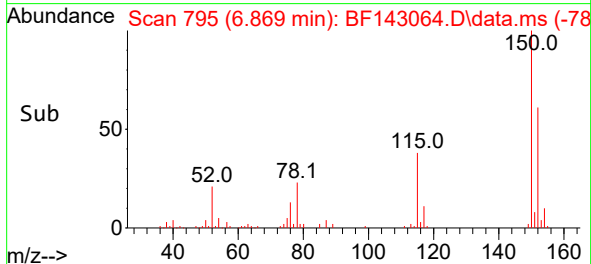
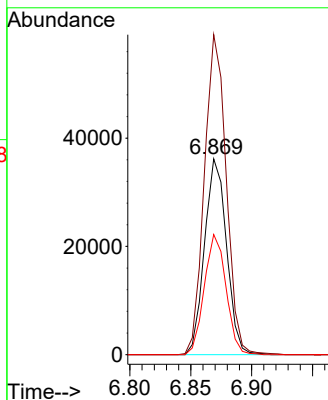
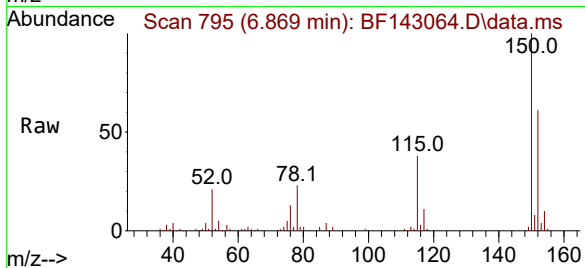




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 797  
Delta R.T. -0.012 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

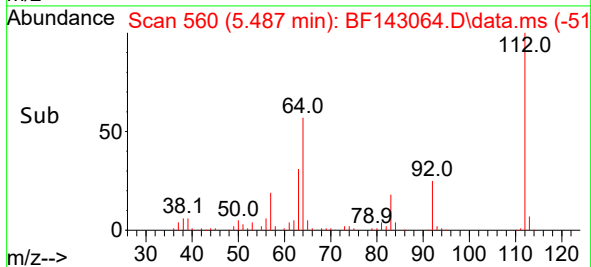
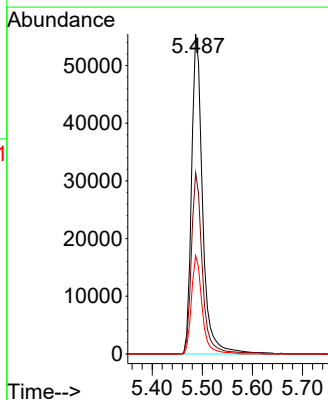
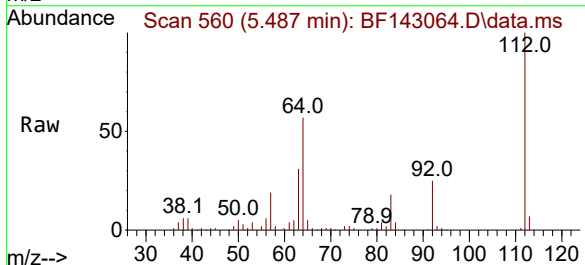
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BNA\_F  
ClientSampleId :  
G4(0-6)

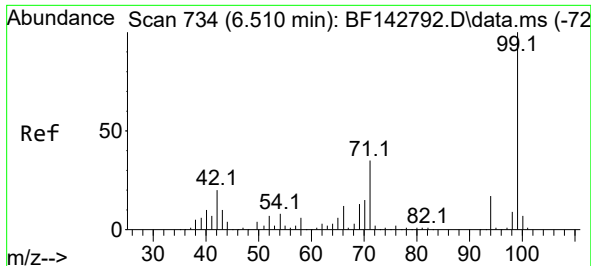
Tgt Ion:152 Resp: 45424  
Ion Ratio Lower Upper  
152 100  
150 163.5 127.2 190.8  
115 61.4 46.6 69.8



#5  
2-Fluorophenol  
Concen: 31.040 ng  
RT: 5.487 min Scan# 560  
Delta R.T. -0.005 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion:112 Resp: 84686  
Ion Ratio Lower Upper  
112 100  
64 56.6 48.2 72.2  
63 30.7 25.7 38.5

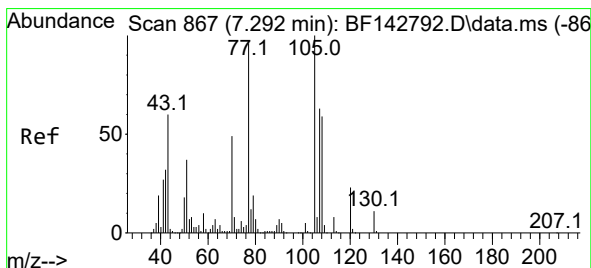
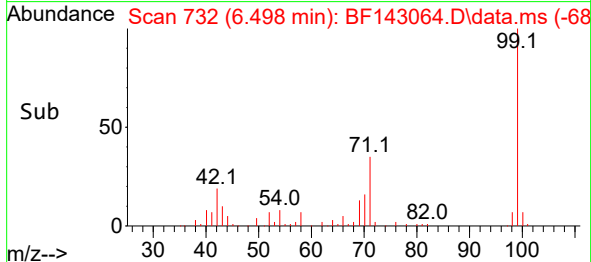
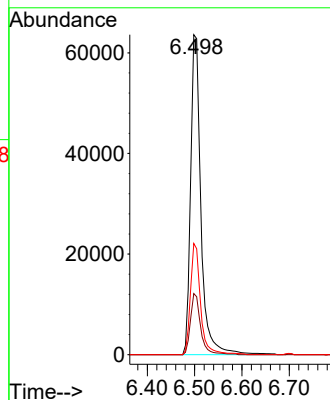
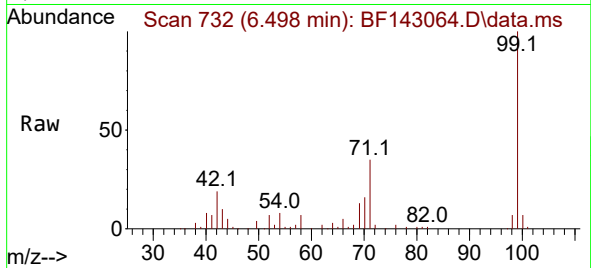




#7  
Phenol-d6  
Concen: 30.063 ng  
RT: 6.498 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

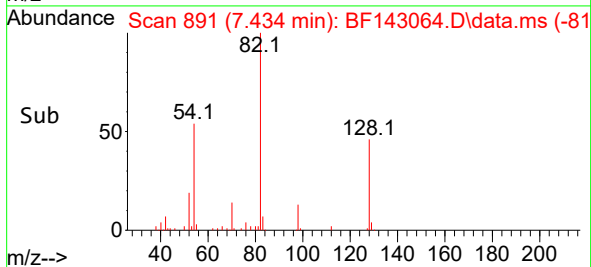
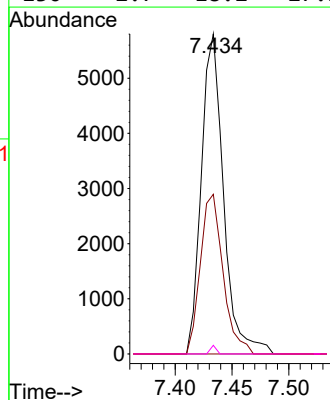
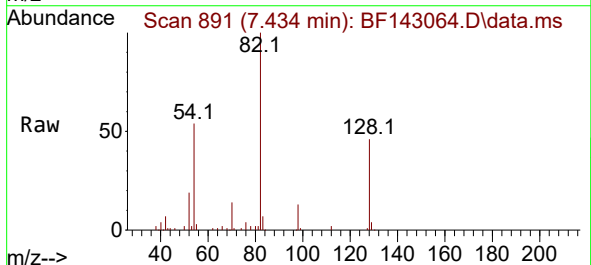
Instrument :  
BNA\_F  
ClientSampleId :  
G4(0-6)

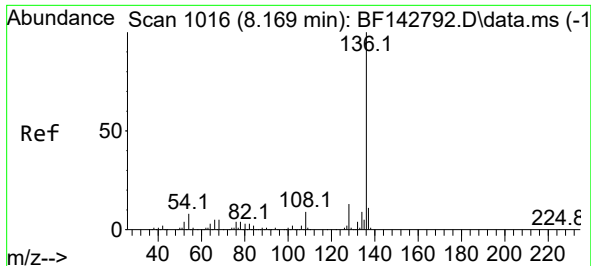
Tgt Ion: 99 Resp: 96768  
Ion Ratio Lower Upper  
99 100  
42 19.1 15.9 23.9  
71 34.8 27.8 41.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 4.196 ng  
RT: 7.434 min Scan# 891  
Delta R.T. 0.141 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion: 70 Resp: 7855  
Ion Ratio Lower Upper  
70 100  
42 49.9 52.1 78.1#  
101 0.0 8.2 12.2#  
130 2.7 18.2 27.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

Instrument :

BNA\_F

ClientSampleId :

G4(0-6)

Tgt Ion:136 Resp: 161547

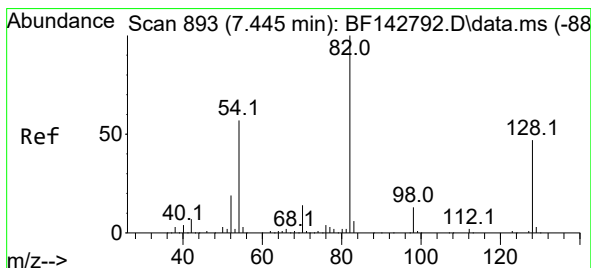
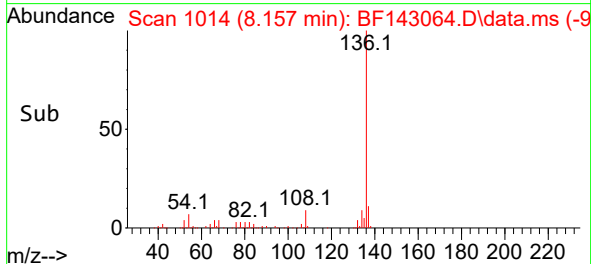
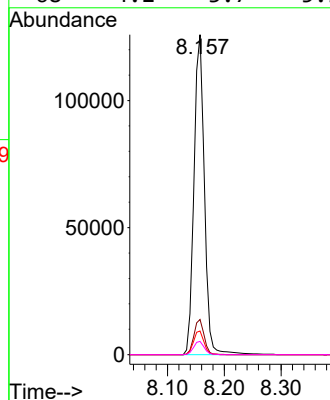
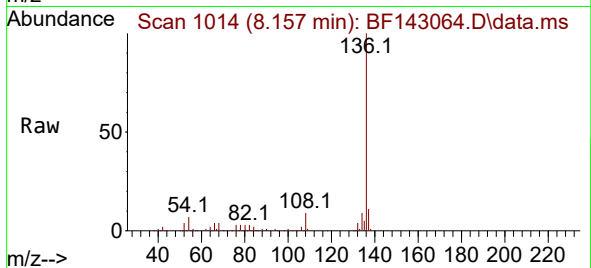
Ion Ratio Lower Upper

136 100

137 11.0 8.4 12.6

54 7.4 6.3 9.5

68 4.2 3.7 5.5



#23

Nitrobenzene-d5

Concen: 19.512 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.011 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

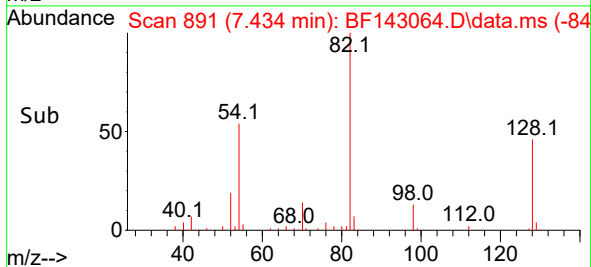
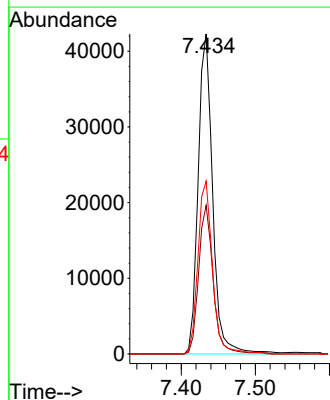
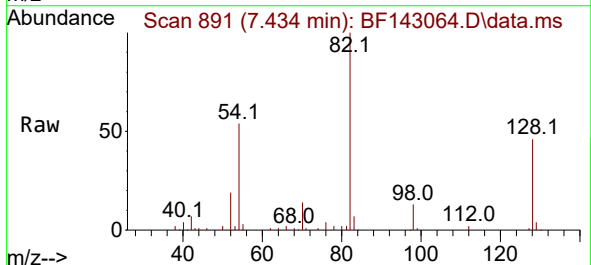
Tgt Ion: 82 Resp: 57466

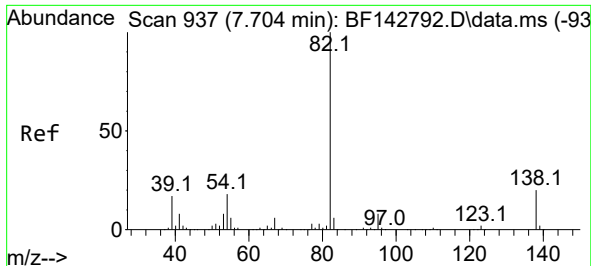
Ion Ratio Lower Upper

82 100

128 46.5 37.7 56.5

54 54.0 45.7 68.5

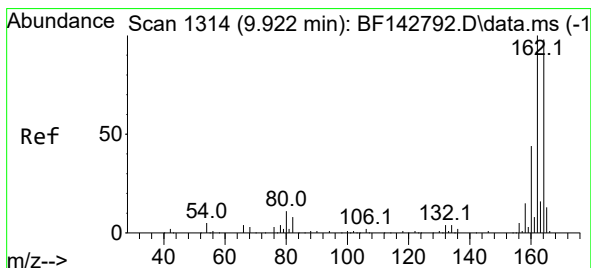
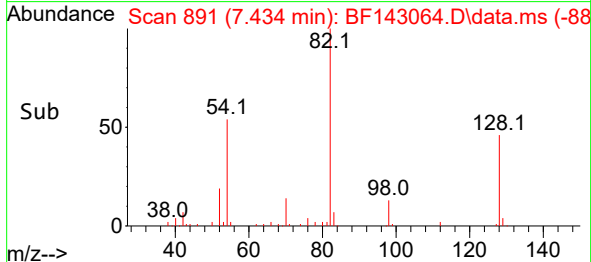
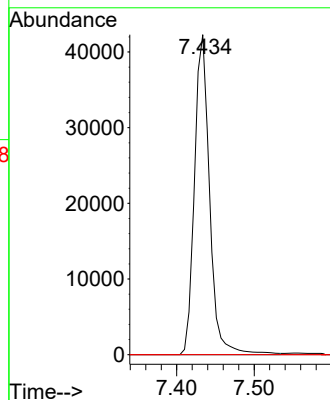
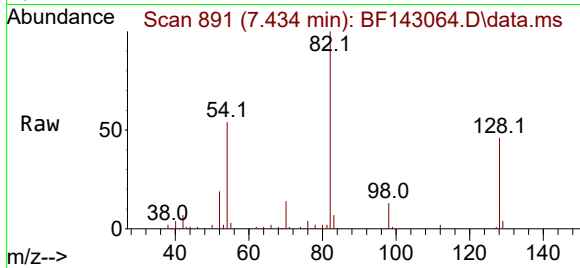




#25  
Isophorone  
Concen: 12.163 ng  
RT: 7.434 min Scan# 89  
Delta R.T. -0.271 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

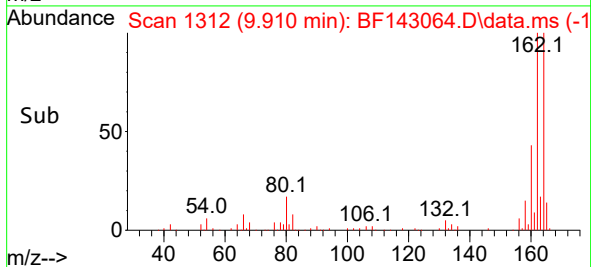
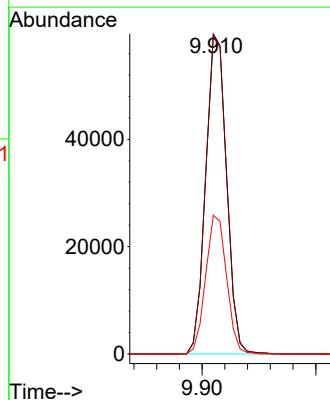
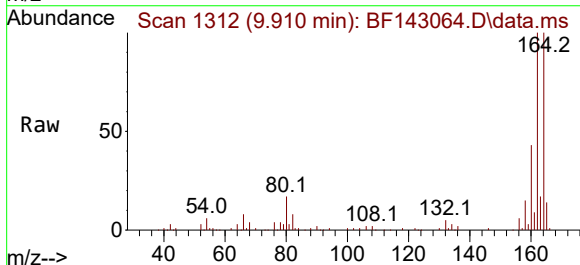
Instrument :  
BNA\_F  
ClientSampleId :  
G4(0-6)

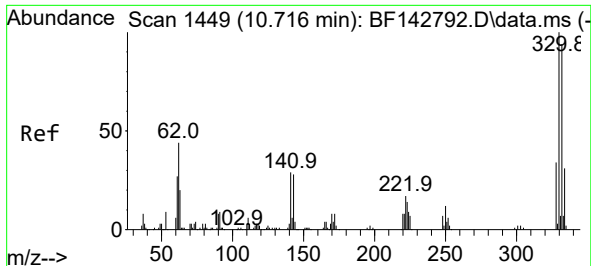
Tgt Ion: 82 Resp: 57465  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.2 9.2#  
138 0.0 16.2 24.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1312  
Delta R.T. -0.012 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion:164 Resp: 75920  
Ion Ratio Lower Upper  
164 100  
162 99.7 81.8 122.8  
160 43.3 36.0 54.0

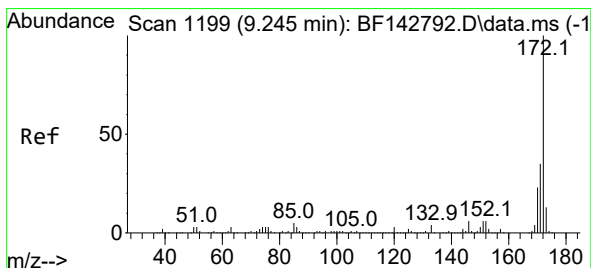
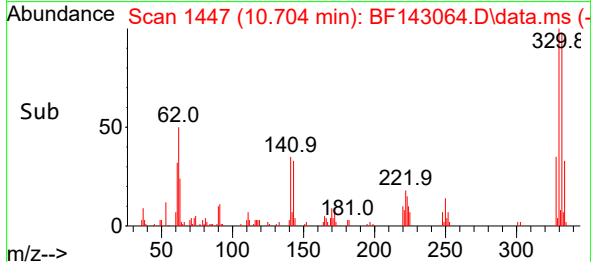
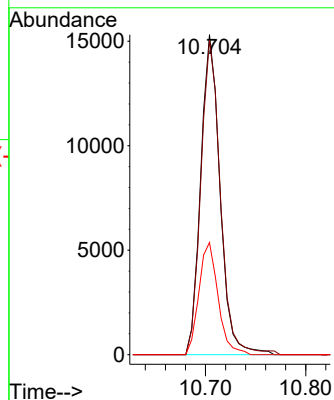
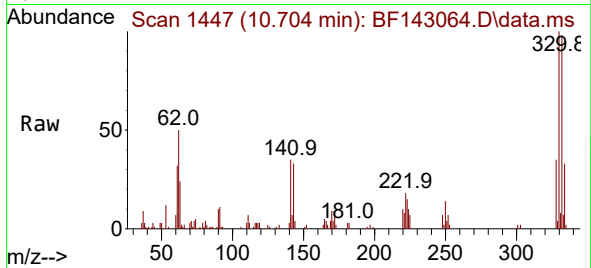




#42  
2,4,6-Tribromophenol  
Concen: 26.282 ng  
RT: 10.704 min Scan# 1447  
Delta R.T. -0.012 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

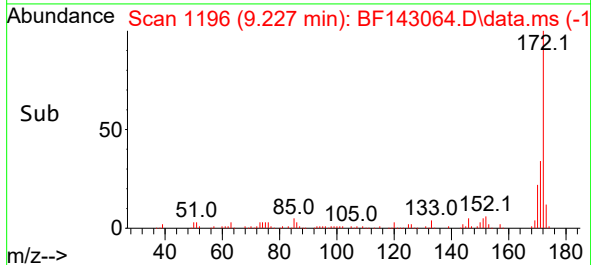
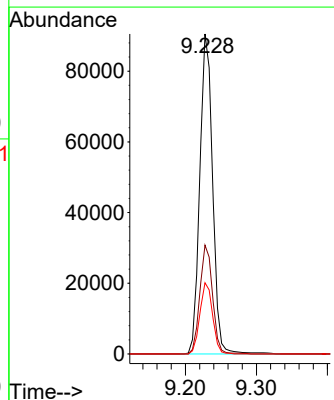
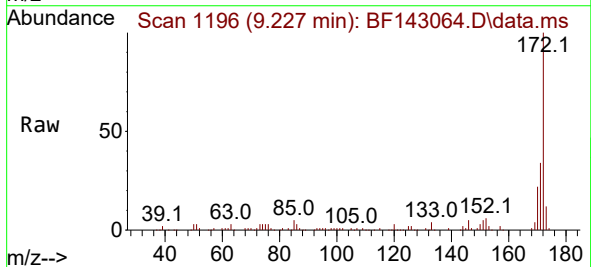
Instrument :  
BNA\_F  
ClientSampleId :  
G4(0-6)

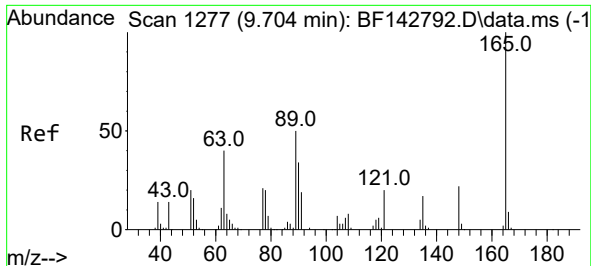
Tgt Ion: 330 Resp: 20533  
Ion Ratio Lower Upper  
330 100  
332 99.3 75.0 112.6  
141 34.8 25.3 37.9



#45  
2-Fluorobiphenyl  
Concen: 19.720 ng  
RT: 9.227 min Scan# 1196  
Delta R.T. -0.018 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion: 172 Resp: 113964  
Ion Ratio Lower Upper  
172 100  
171 34.0 28.2 42.4  
170 22.3 18.5 27.7

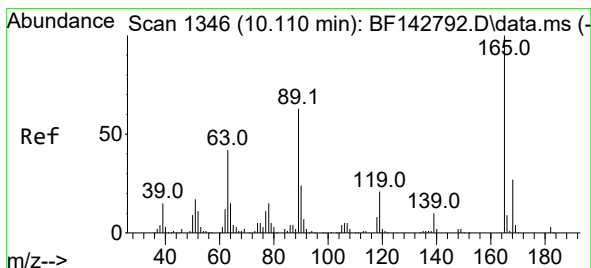
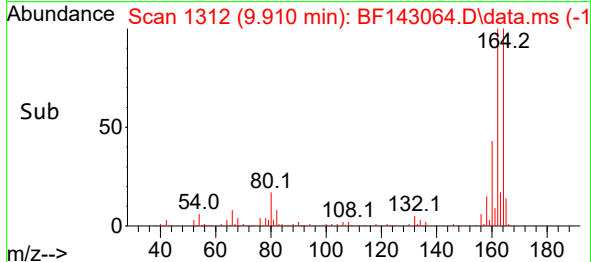
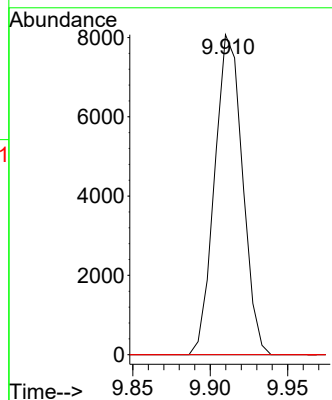
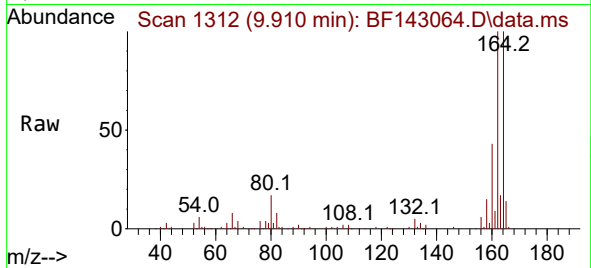




#51  
2,6-Dinitrotoluene  
Concen: 9.366 ng  
RT: 9.910 min Scan# 1312  
Delta R.T. 0.206 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

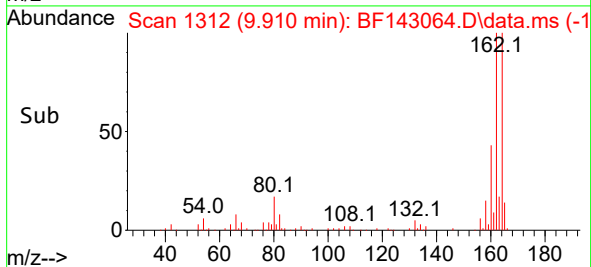
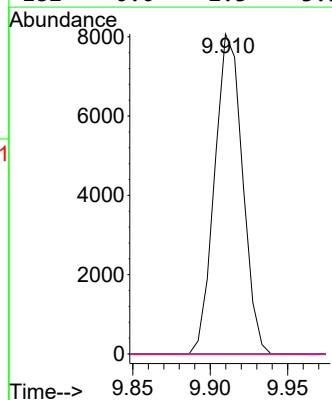
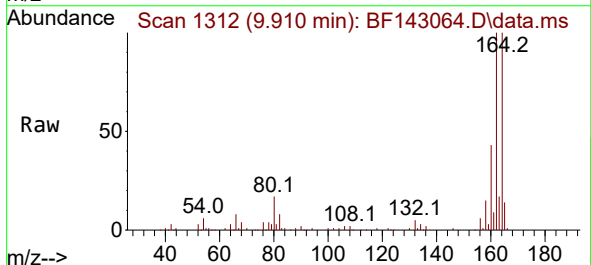
Instrument :  
BNA\_F  
ClientSampleId :  
G4(0-6)

Tgt Ion:165 Resp: 10108  
Ion Ratio Lower Upper  
165 100  
63 0.0 44.2 66.4#  
89 0.0 39.8 59.8#

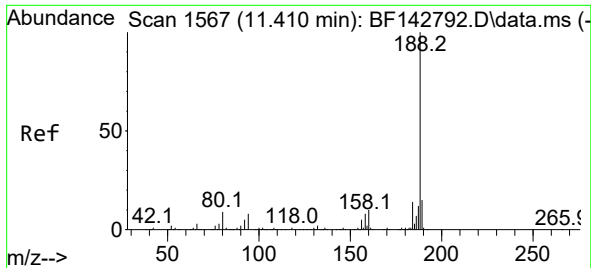


#57  
2,4-Dinitrotoluene  
Concen: 7.051 ng  
RT: 9.910 min Scan# 1312  
Delta R.T. -0.200 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion:165 Resp: 10108  
Ion Ratio Lower Upper  
165 100  
63 0.0 33.9 50.9#  
89 0.0 50.6 75.8#  
182 0.0 2.3 3.5#



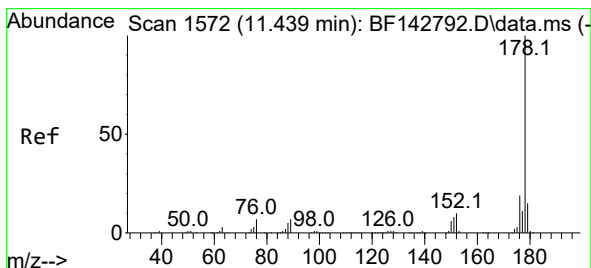
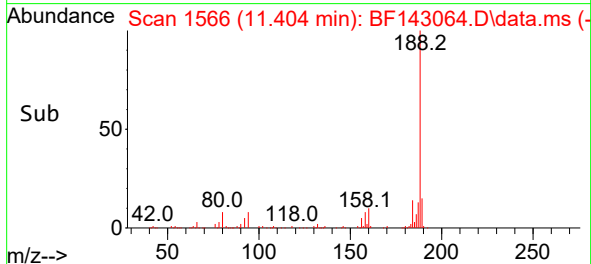
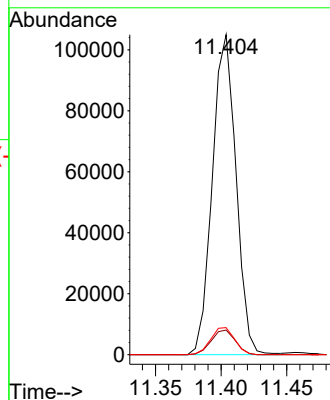
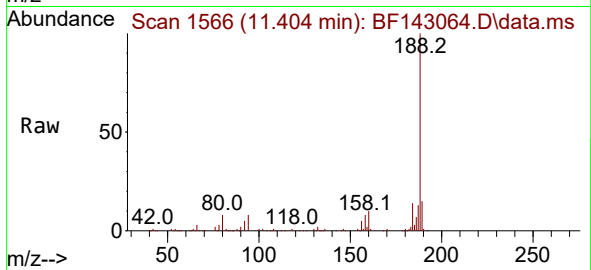




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.404 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

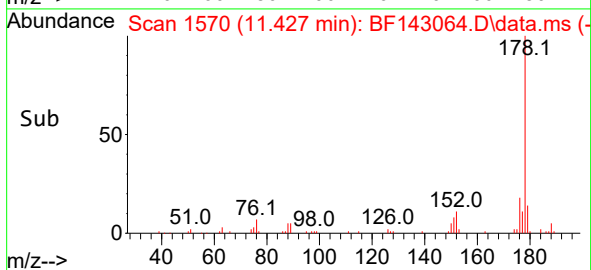
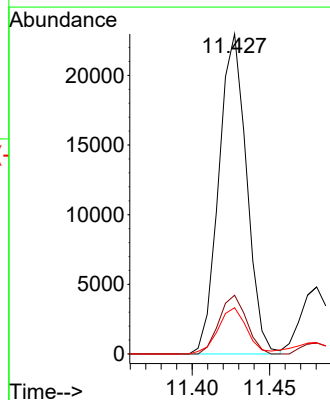
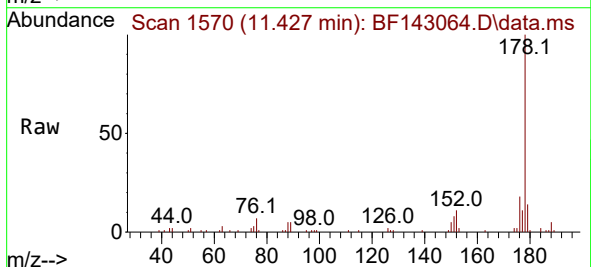
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BNA\_F  
ClientSampleId :  
G4(0-6)

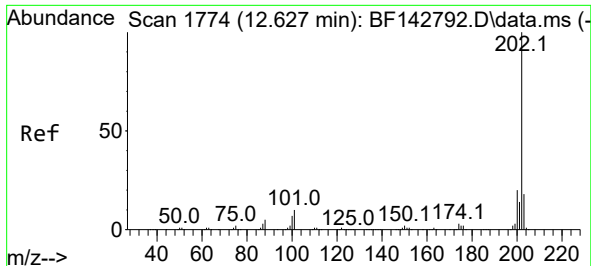
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Ion Ratio Lower Upper  
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94 7.7 6.7 10.1  
80 8.4 6.9 10.3



#71  
Phenanthrene  
Concen: 4.029 ng  
RT: 11.427 min Scan# 1570  
Delta R.T. -0.012 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion:178 Resp: 28702  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.1 22.7  
179 14.4 12.0 18.0

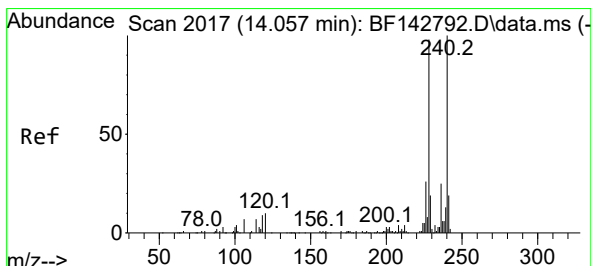
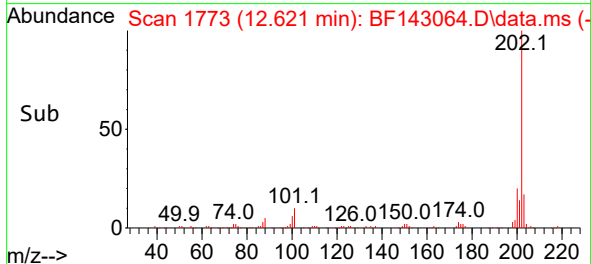
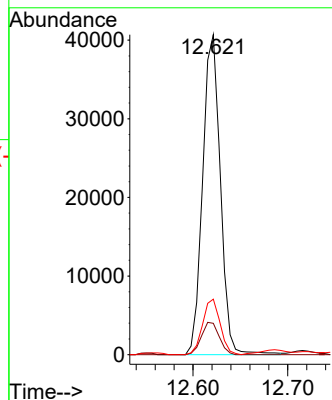
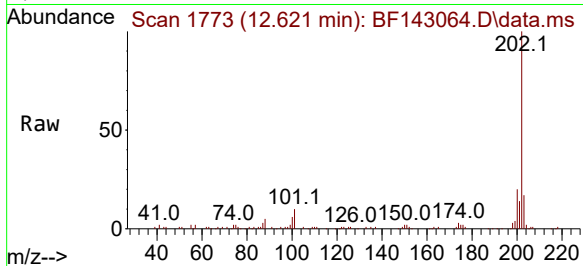




#75  
Fluoranthene  
Concen: 7.814 ng  
RT: 12.621 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

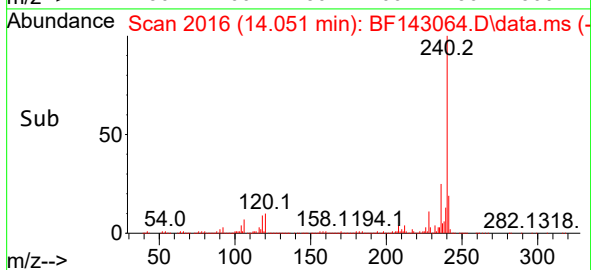
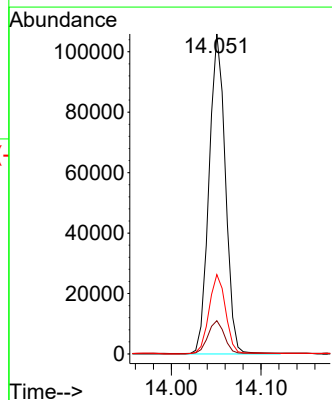
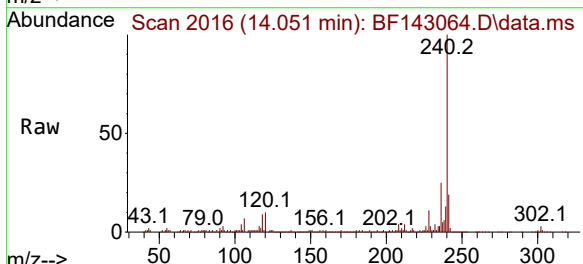
Instrument :  
BNA\_F  
ClientSampleId :  
G4(0-6)

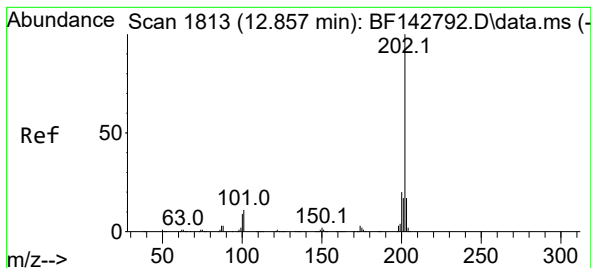
Tgt Ion:202 Resp: 52822  
Ion Ratio Lower Upper  
202 100  
101 9.8 0.0 29.7  
203 17.3 0.0 37.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.051 min Scan# 2016  
Delta R.T. -0.006 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion:240 Resp: 133783  
Ion Ratio Lower Upper  
240 100  
120 10.4 8.2 12.2  
236 24.8 19.8 29.8





#78

Pyrene

Concen: 3.959 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

Instrument :

BNA\_F

ClientSampleId :

G4(0-6)

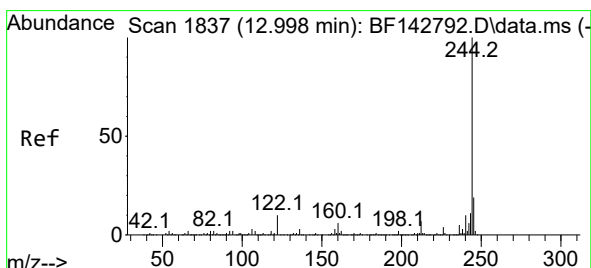
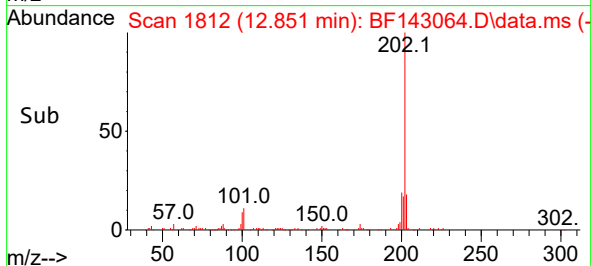
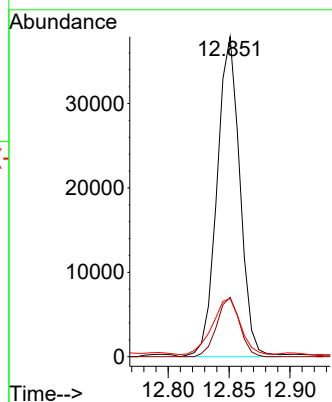
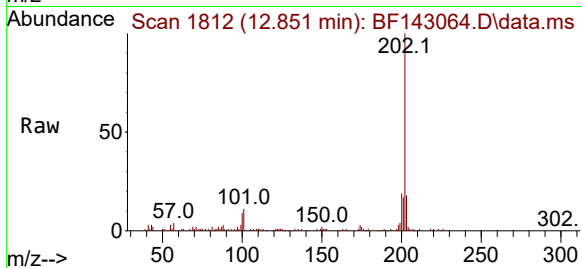
Tgt Ion:202 Resp: 49643

Ion Ratio Lower Upper

202 100

200 18.5 15.7 23.5

203 18.2 13.8 20.6



#79

Terphenyl-d14

Concen: 13.368 ng

RT: 12.986 min Scan# 1835

Delta R.T. -0.012 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

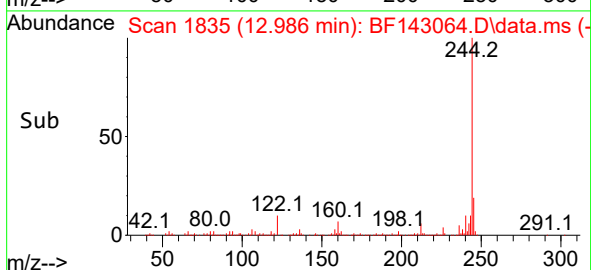
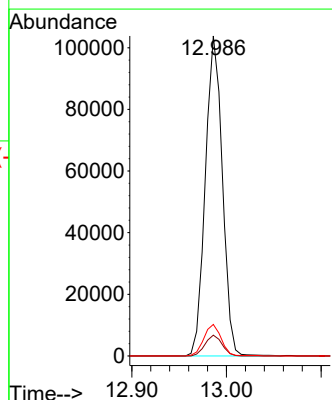
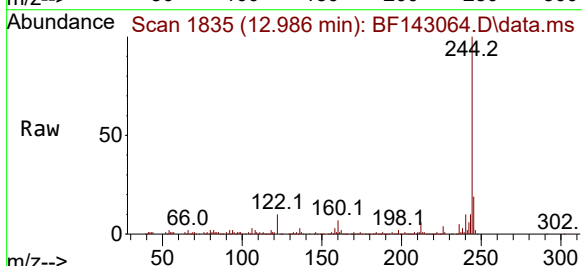
Tgt Ion:244 Resp: 129438

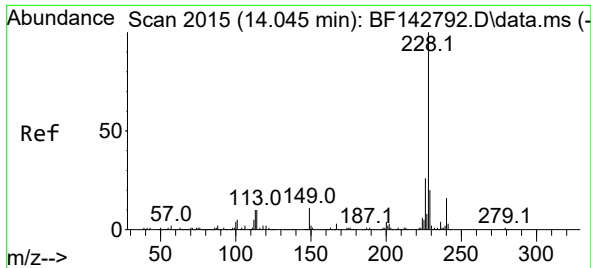
Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

122 9.9 8.2 12.2

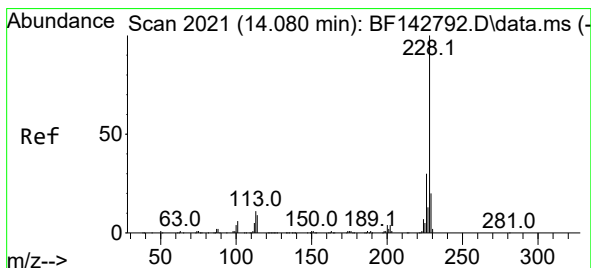
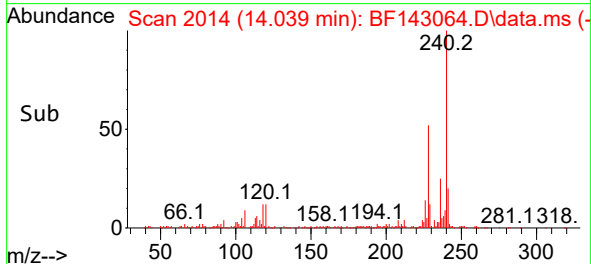
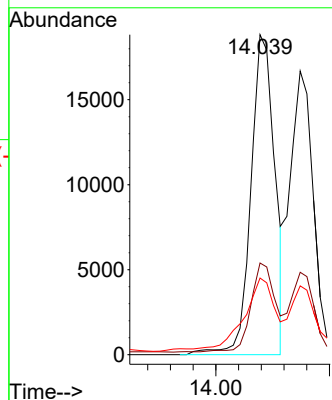
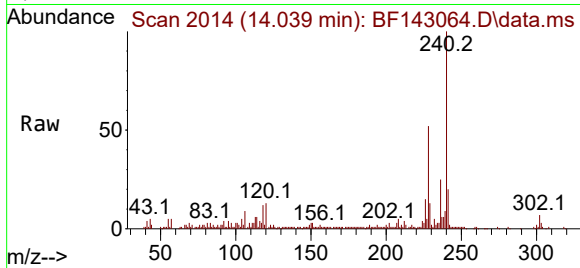




#81  
Benzo(a)anthracene  
Concen: 3.052 ng  
RT: 14.039 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

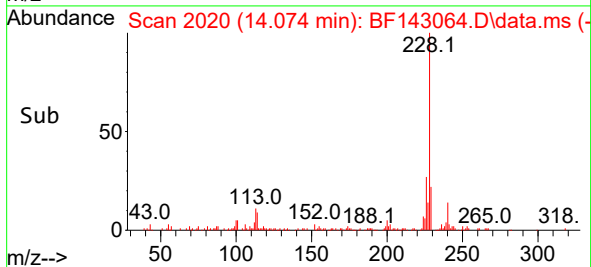
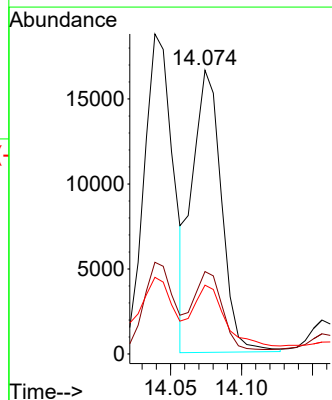
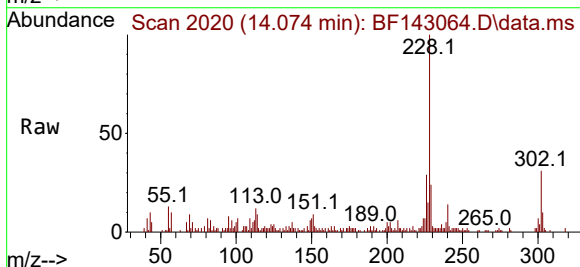
Instrument :  
BNA\_F  
ClientSampleId :  
G4(0-6)

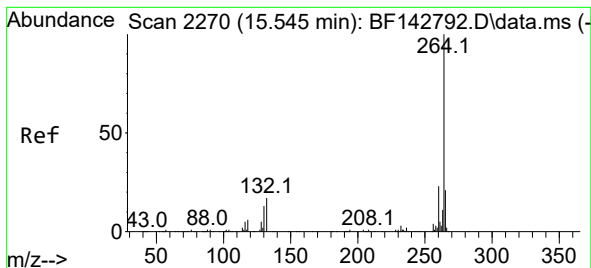
Tgt Ion:228 Resp: 27541  
Ion Ratio Lower Upper  
228 100  
226 28.6 21.2 31.8  
229 23.9 15.6 23.4#



#83  
Chrysene  
Concen: 2.932 ng  
RT: 14.074 min Scan# 2020  
Delta R.T. -0.006 min  
Lab File: BF143064.D  
Acq: 09 Jul 2025 19:02

Tgt Ion:228 Resp: 23616  
Ion Ratio Lower Upper  
228 100  
226 29.0 23.7 35.5  
229 24.3 15.7 23.5#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2196

Delta R.T. -0.000 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

Instrument :

BNA\_F

ClientSampleId :

G4(0-6)

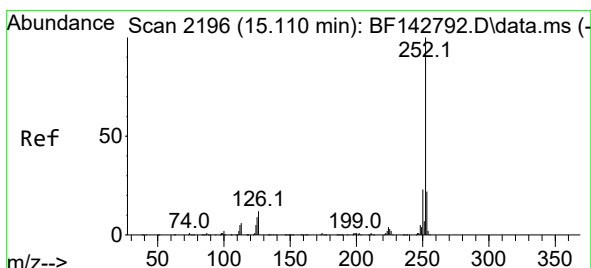
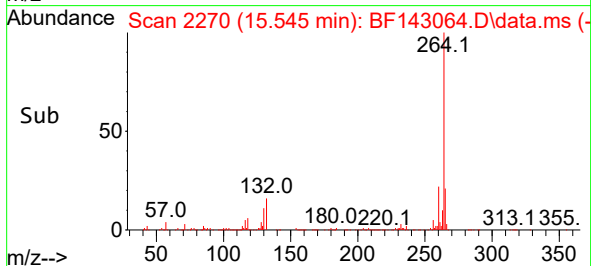
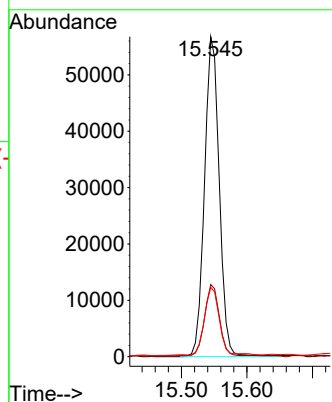
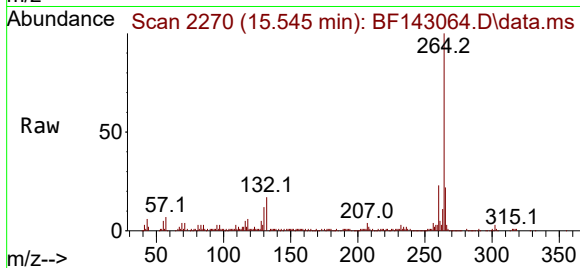
Tgt Ion:264 Resp: 89246

Ion Ratio Lower Upper

264 100

260 22.6 18.1 27.1

265 21.7 16.6 25.0



#88

Benzo(b)fluoranthene

Concen: 5.698 ng

RT: 15.109 min Scan# 2196

Delta R.T. -0.000 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

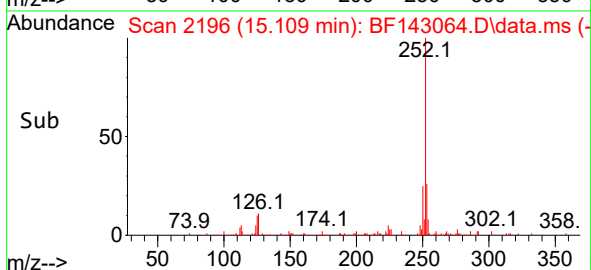
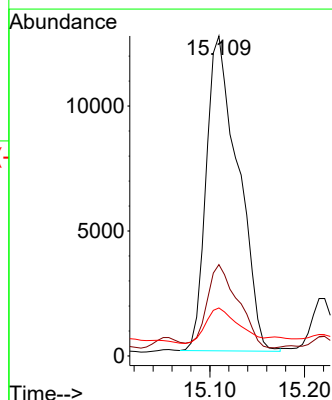
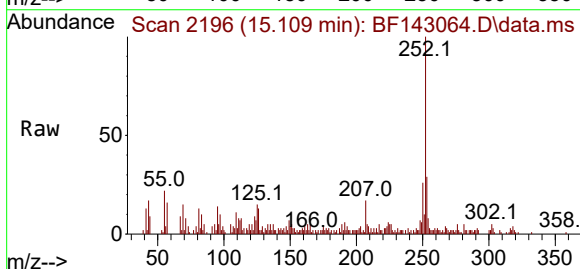
Tgt Ion:252 Resp: 29427

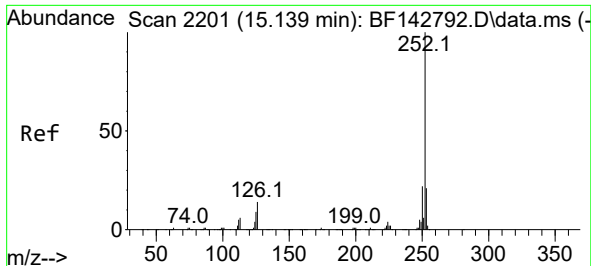
Ion Ratio Lower Upper

252 100

253 28.6 17.5 26.3#

125 15.0 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 6.091 ng

RT: 15.109 min Scan# 2196

Delta R.T. -0.029 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

Instrument :

BNA\_F

ClientSampleId :

G4(0-6)

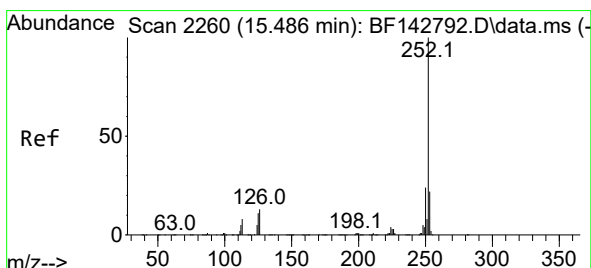
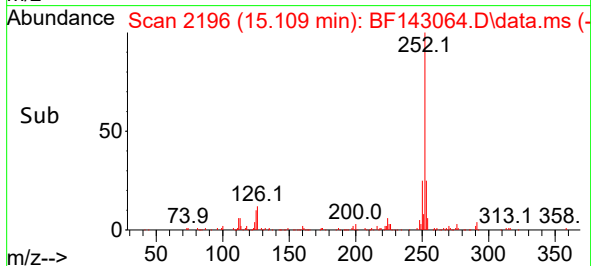
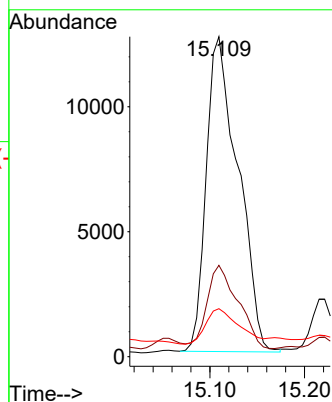
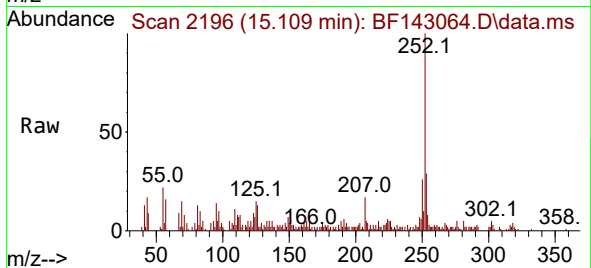
Tgt Ion:252 Resp: 29427

Ion Ratio Lower Upper

252 100

253 28.6 17.2 25.8#

125 15.0 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 2.950 ng

RT: 15.480 min Scan# 2259

Delta R.T. -0.006 min

Lab File: BF143064.D

Acq: 09 Jul 2025 19:02

Tgt Ion:252 Resp: 14717

Ion Ratio Lower Upper

252 100

253 24.9 17.5 26.3

125 14.4 8.6 12.8#

