

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF052225\  
 Data File : BF142524.D  
 Acq On : 22 May 2025 21:51  
 Operator : RC/JU  
 Sample : Q2104-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-06-052125

Quant Time: May 23 01:24:46 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF052025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 20 16:26:47 2025  
 Response via : Initial Calibration

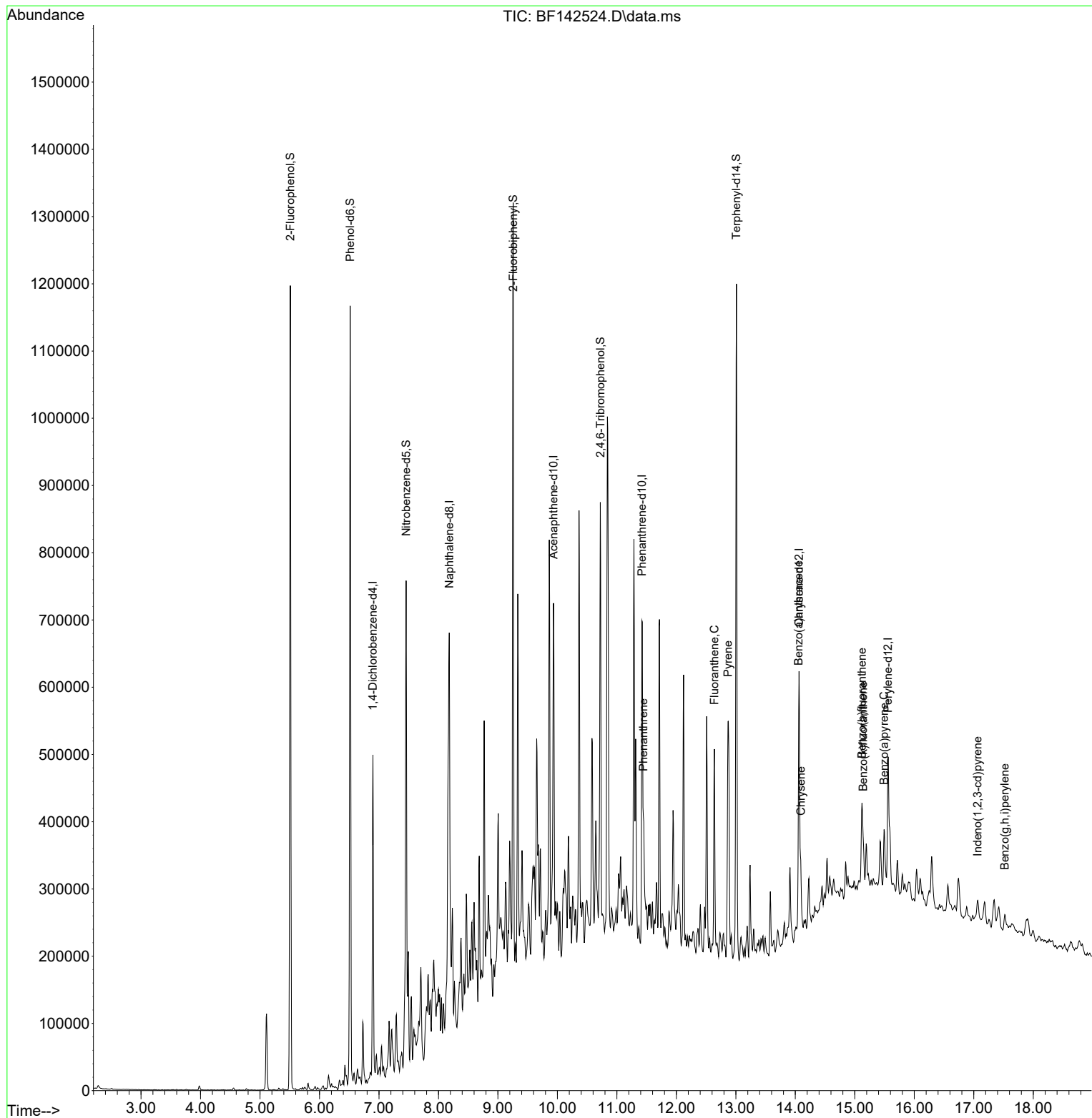
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.898  | 152  | 97973    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.181  | 136  | 319894   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.934  | 164  | 142138   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.422 | 188  | 251418   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 14.063 | 240  | 150720   | 20.000 | ng    | #-0.01   |
| 86) Perylene-d12            | 15.557 | 264  | 134091   | 20.000 | ng    | -0.01    |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 455384   | 78.308 | ng    | 0.00     |
| 7) Phenol-d6                | 6.516  | 99   | 525359   | 75.049 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.457  | 82   | 290192   | 49.466 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.722 | 330  | 114465   | 72.559 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.257  | 172  | 517753   | 48.879 | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.010 | 244  | 483142   | 43.805 | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.445 | 178  | 83808    | 6.237  | ng    | 98       |
| 75) Fluoranthene            | 12.639 | 202  | 173931   | 13.854 | ng    | 99       |
| 78) Pyrene                  | 12.869 | 202  | 173121   | 12.313 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.057 | 228  | 75259    | 7.478  | ng    | # 91     |
| 83) Chrysene                | 14.092 | 228  | 56384    | 6.235  | ng    | # 93     |
| 87) Indeno(1,2,3-cd)pyrene  | 17.063 | 276  | 26326    | 2.615  | ng    | # 90     |
| 88) Benzo(b)fluoranthene    | 15.121 | 252  | 81213m   | 10.233 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.139 | 252  | 24642m   | 3.315  | ng    |          |
| 90) Benzo(a)pyrene          | 15.492 | 252  | 55338    | 7.398  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene    | 17.521 | 276  | 26016    | 3.186  | ng    | # 90     |
| -----                       |        |      |          |        |       |          |

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

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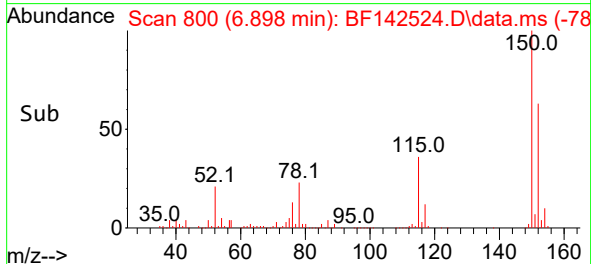
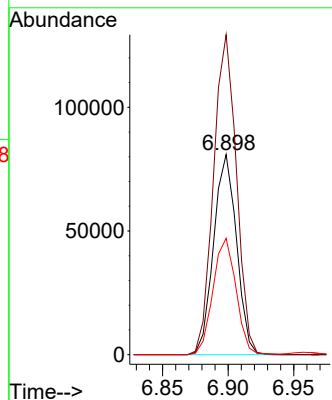
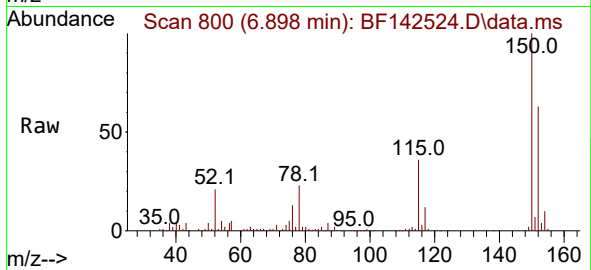




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.898 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

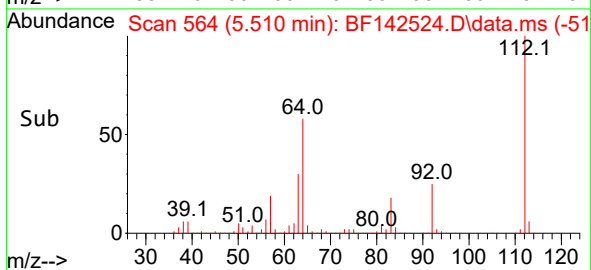
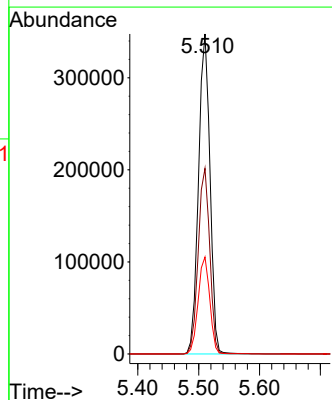
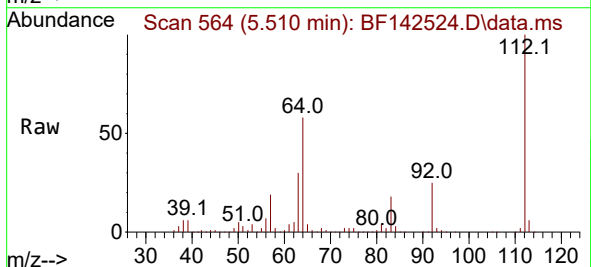
Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-052125

Tgt Ion:152 Resp: 97973  
Ion Ratio Lower Upper  
152 100  
150 159.9 128.2 192.4  
115 58.1 48.3 72.5



#5  
2-Fluorophenol  
Concen: 78.308 ng  
RT: 5.510 min Scan# 564  
Delta R.T. -0.006 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

Tgt Ion:112 Resp: 455384  
Ion Ratio Lower Upper  
112 100  
64 58.0 47.5 71.3  
63 30.3 24.9 37.3

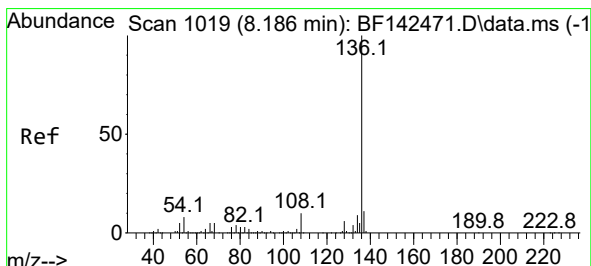
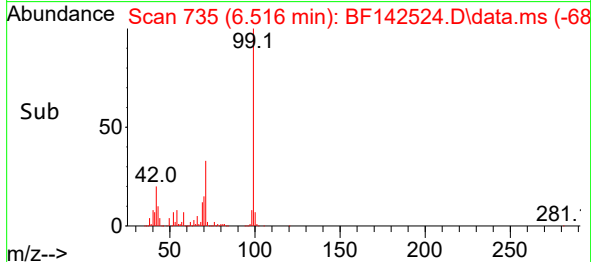
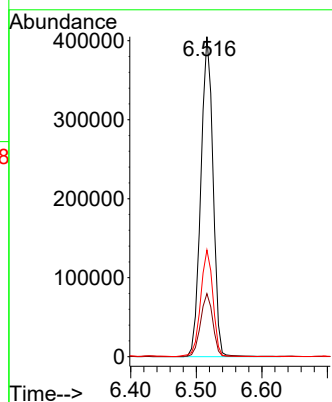
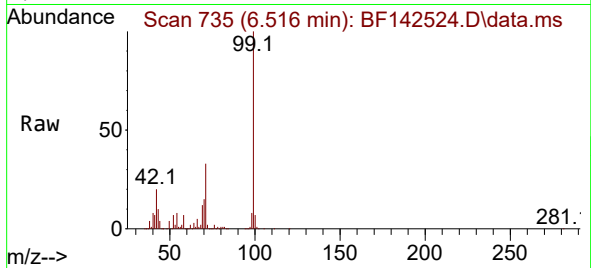




#7  
Phenol-d6  
Concen: 75.049 ng  
RT: 6.516 min Scan# 71  
Delta R.T. -0.017 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

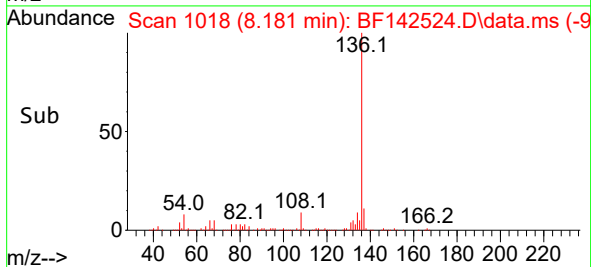
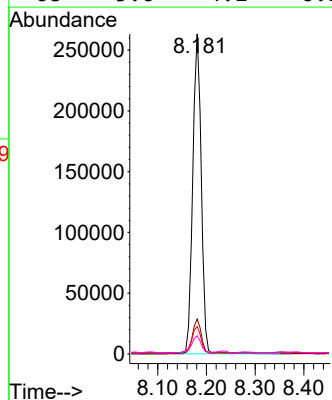
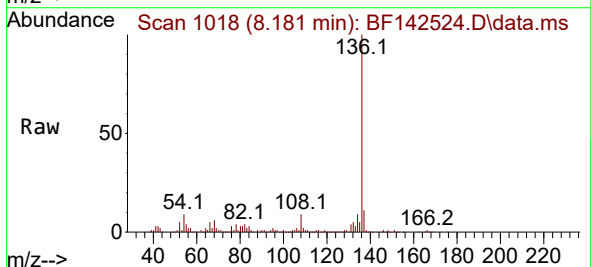
Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-052125

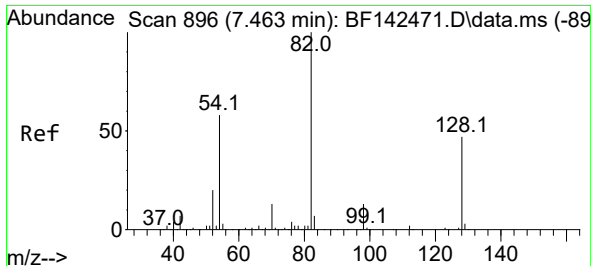
Tgt Ion: 99 Resp: 525359  
Ion Ratio Lower Upper  
99 100  
42 19.7 16.2 24.2  
71 33.3 27.3 40.9



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.181 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

Tgt Ion: 136 Resp: 319894  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 13.0  
54 8.6 6.6 10.0  
68 5.6 4.1 6.1





#23

Nitrobenzene-d5

Concen: 49.466 ng

RT: 7.457 min Scan# 896

Delta R.T. -0.017 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA\_F

ClientSampleId :

TR-06-052125

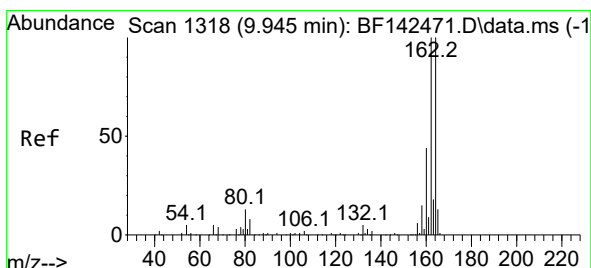
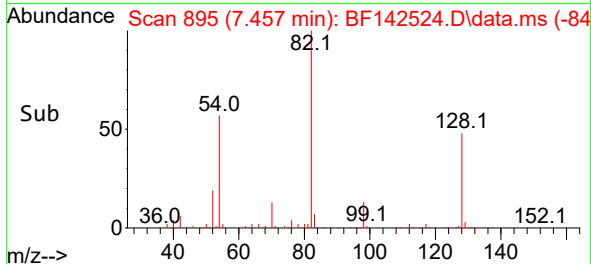
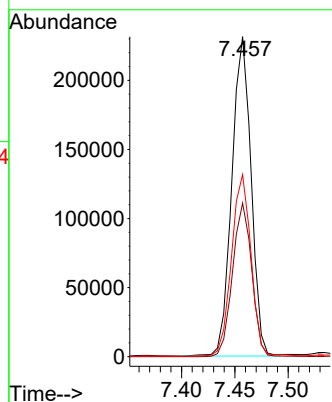
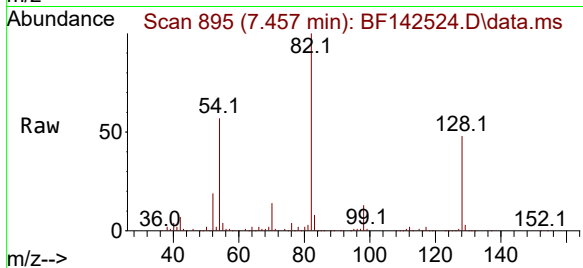
Tgt Ion: 82 Resp: 290192

Ion Ratio Lower Upper

82 100

128 48.0 37.4 56.2

54 56.9 46.6 70.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.934 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

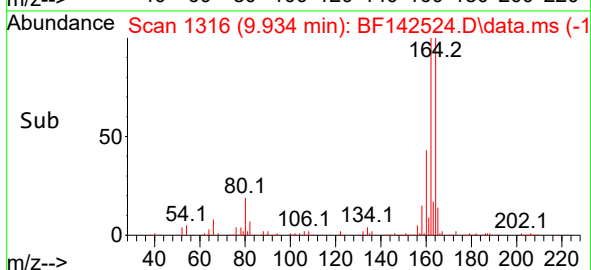
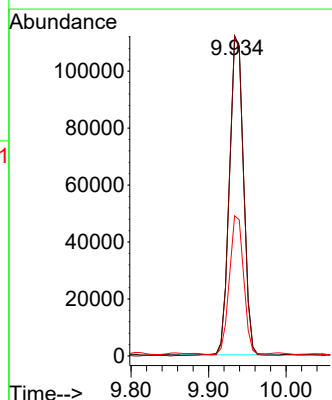
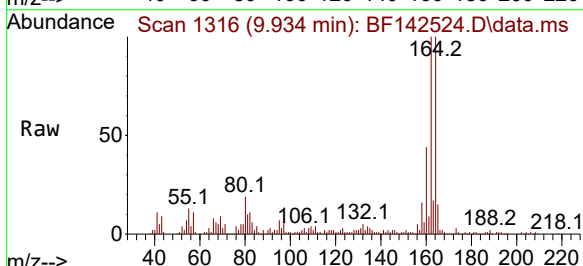
Tgt Ion: 164 Resp: 142138

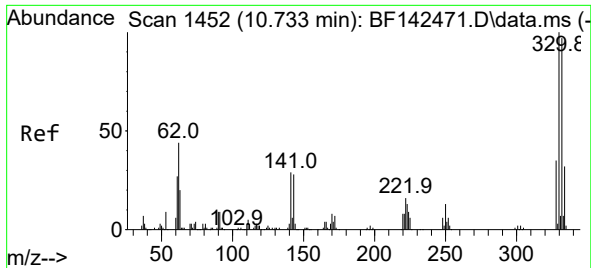
Ion Ratio Lower Upper

164 100

162 99.9 80.2 120.4

160 43.8 35.6 53.4

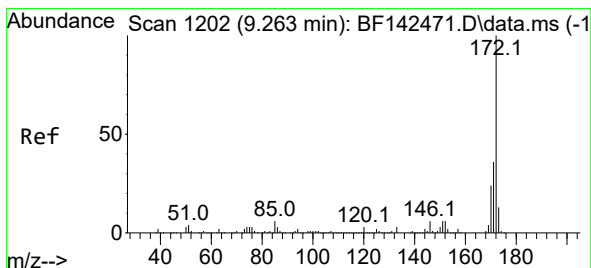
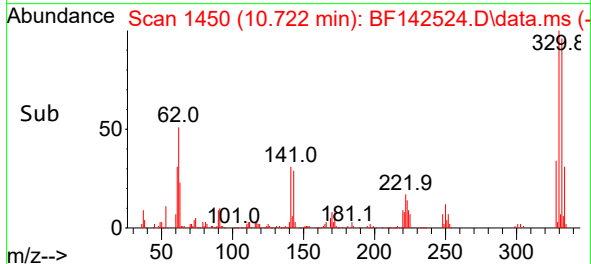
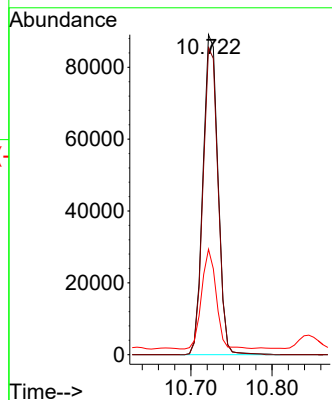
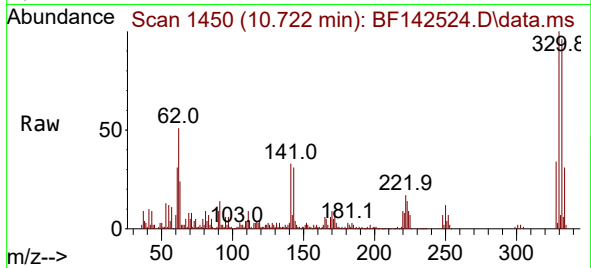




#42  
2,4,6-Tribromophenol  
Concen: 72.559 ng  
RT: 10.722 min Scan# 144  
Delta R.T. -0.017 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

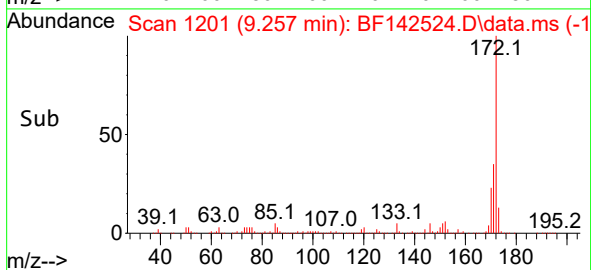
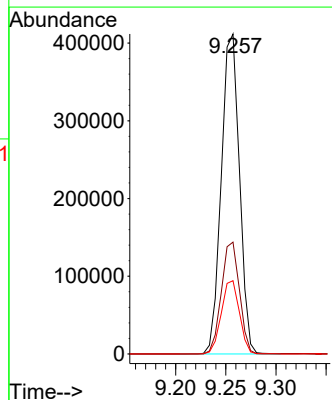
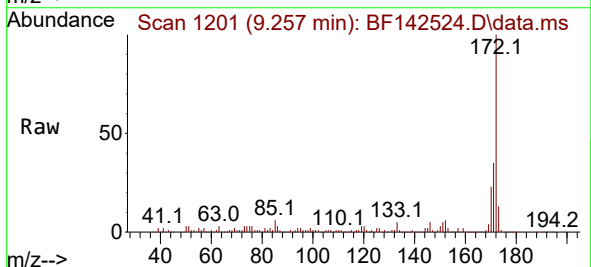
Instrument :  
BNA\_F  
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TR-06-052125

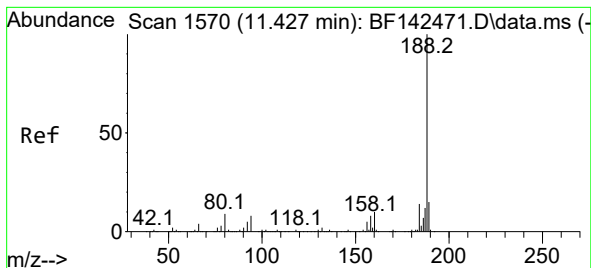
Tgt Ion:330 Resp: 114465  
Ion Ratio Lower Upper  
330 100  
332 95.8 77.6 116.4  
141 30.2 24.6 36.8



#45  
2-Fluorobiphenyl  
Concen: 48.879 ng  
RT: 9.257 min Scan# 1201  
Delta R.T. -0.012 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

Tgt Ion:172 Resp: 517753  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.6 42.8  
170 22.9 18.9 28.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA\_F

ClientSampleId :

TR-06-052125

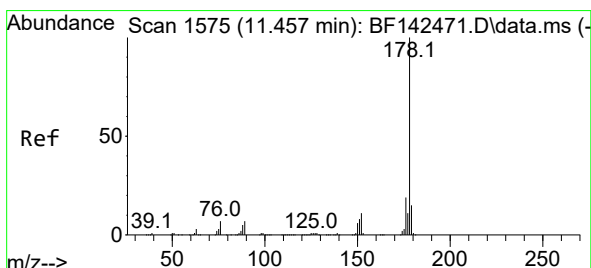
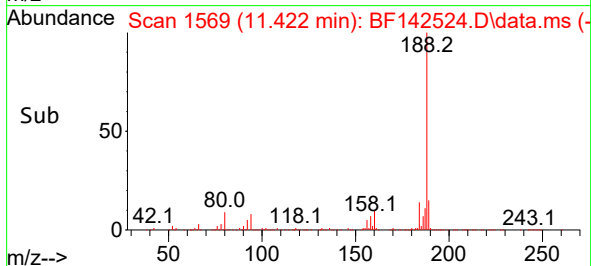
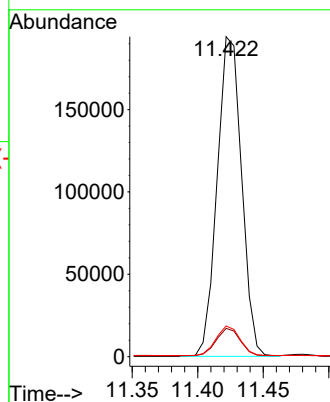
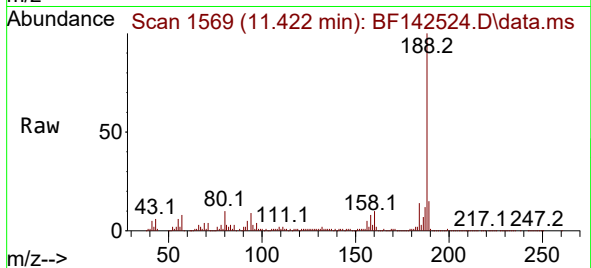
Tgt Ion:188 Resp: 251418

Ion Ratio Lower Upper

188 100

94 8.8 6.6 10.0

80 9.6 7.4 11.0



#71

Phenanthrene

Concen: 6.237 ng

RT: 11.445 min Scan# 1573

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

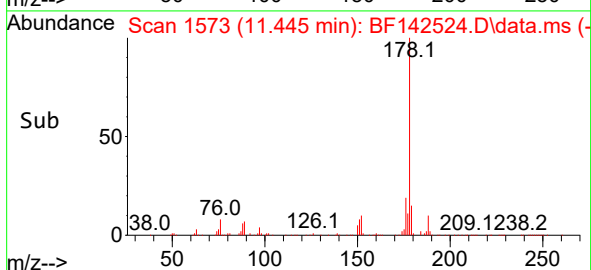
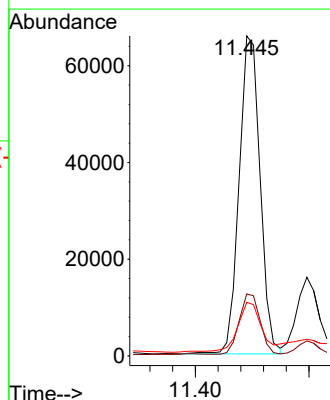
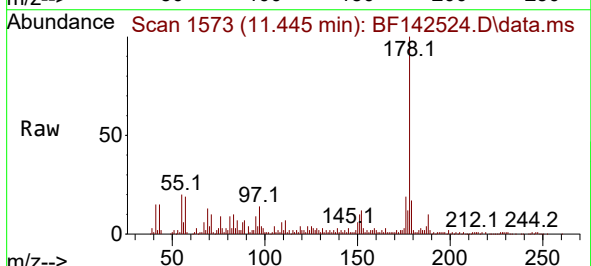
Tgt Ion:178 Resp: 83808

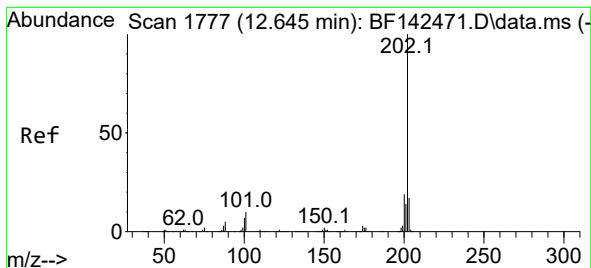
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 16.7 12.3 18.5





#75

Fluoranthene

Concen: 13.854 ng

RT: 12.639 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA\_F

ClientSampleId :

TR-06-052125

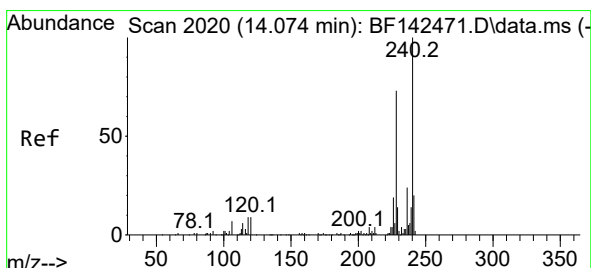
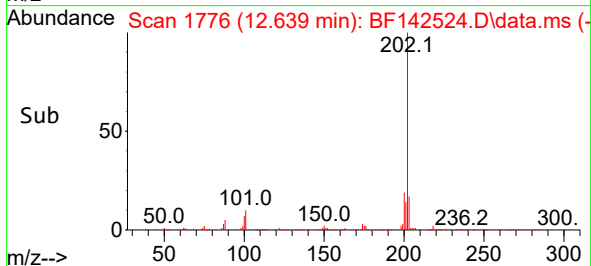
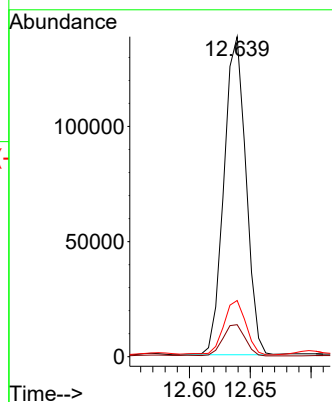
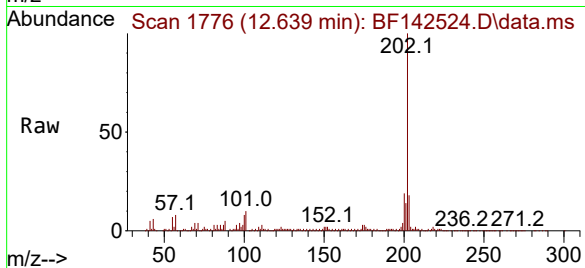
Tgt Ion:202 Resp: 173931

Ion Ratio Lower Upper

202 100

101 10.0 0.0 29.6

203 17.6 0.0 37.2



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

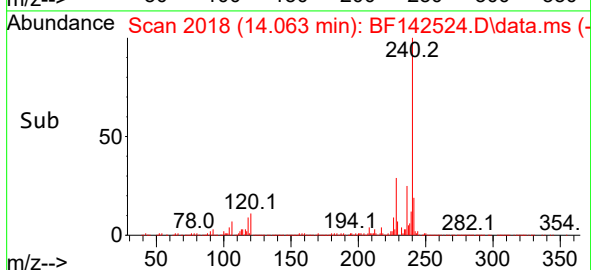
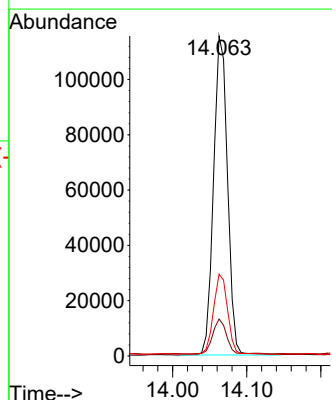
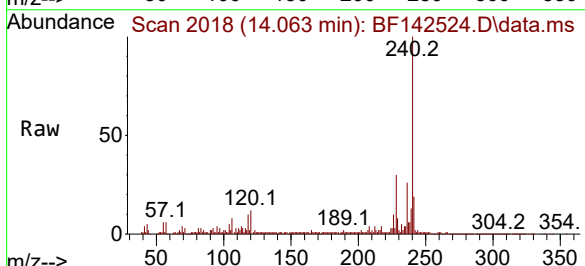
Tgt Ion:240 Resp: 150720

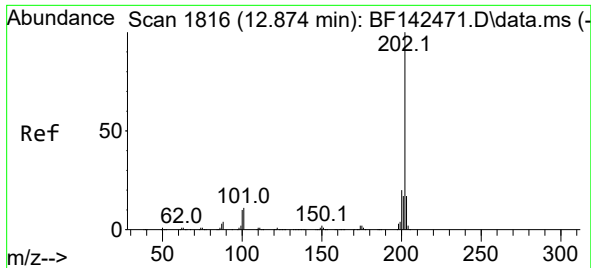
Ion Ratio Lower Upper

240 100

120 11.5 7.5 11.3#

236 25.5 19.6 29.4

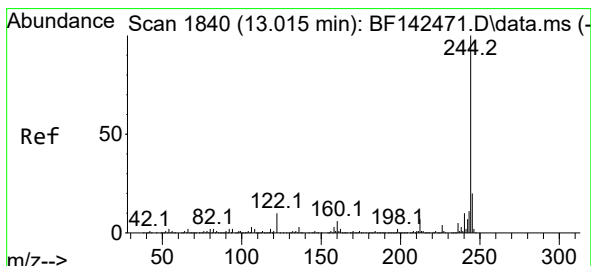
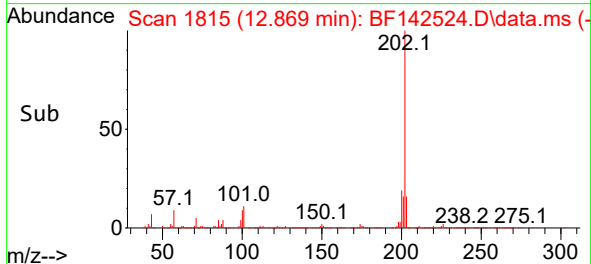
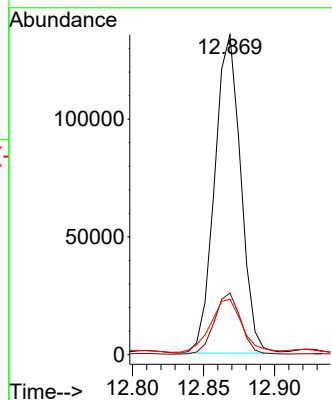
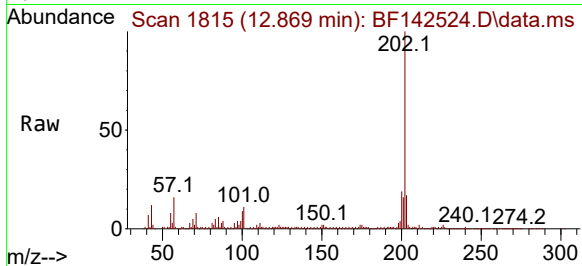




#78  
 Pyrene  
 Concen: 12.313 ng  
 RT: 12.869 min Scan# 1815  
 Delta R.T. -0.006 min  
 Lab File: BF142524.D  
 Acq: 22 May 2025 21:51

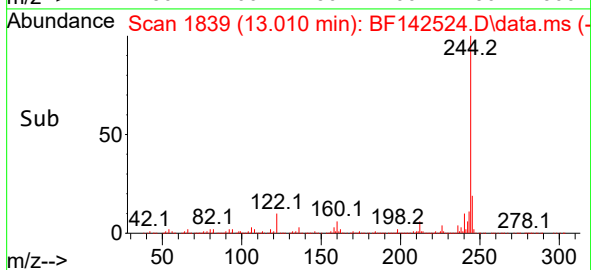
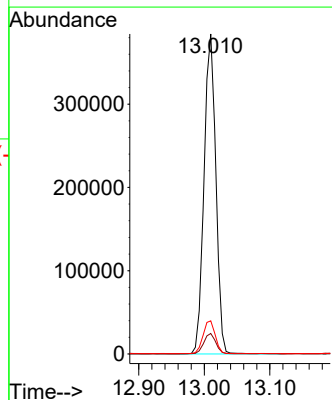
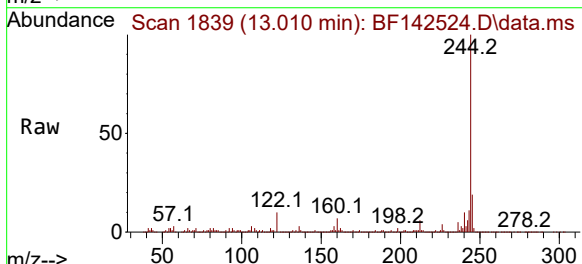
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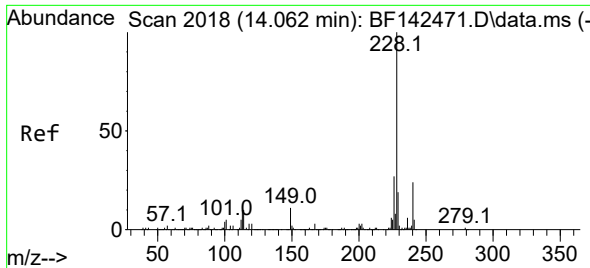
Tgt Ion:202 Resp: 173121  
 Ion Ratio Lower Upper  
 202 100  
 200 19.2 16.1 24.1  
 203 17.3 13.9 20.9



#79  
 Terphenyl-d14  
 Concen: 43.805 ng  
 RT: 13.010 min Scan# 1839  
 Delta R.T. -0.006 min  
 Lab File: BF142524.D  
 Acq: 22 May 2025 21:51

Tgt Ion:244 Resp: 483142  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.3 7.9  
 122 10.3 8.2 12.2

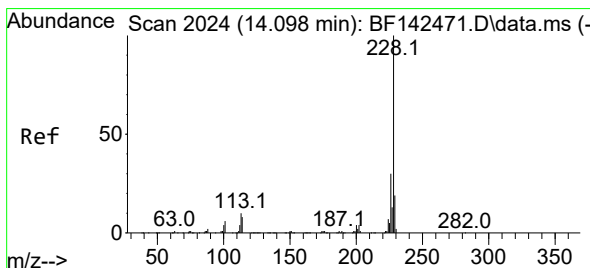
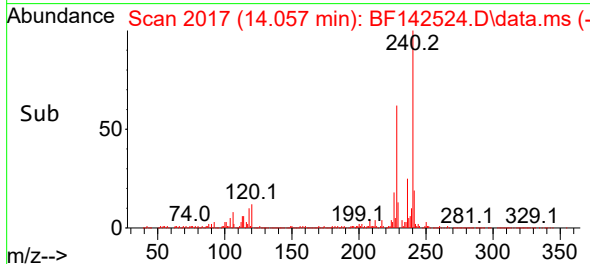
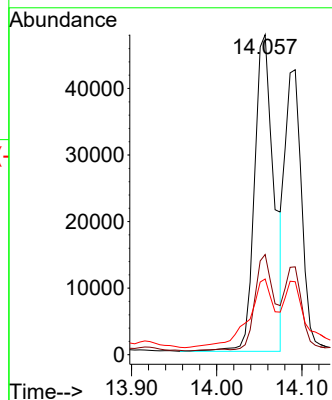
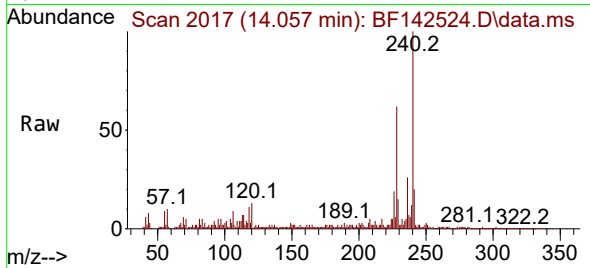




#81  
Benzo(a)anthracene  
Concen: 7.478 ng  
RT: 14.057 min Scan# 2018  
Delta R.T. -0.006 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

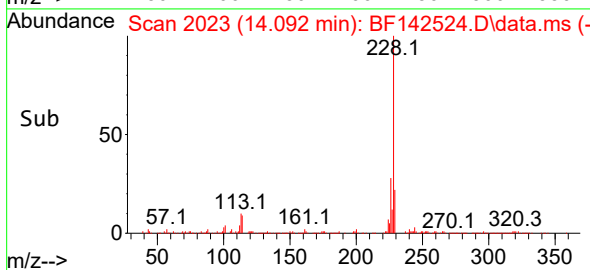
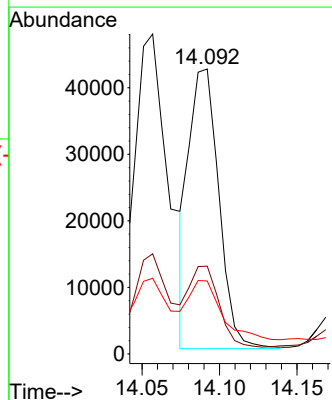
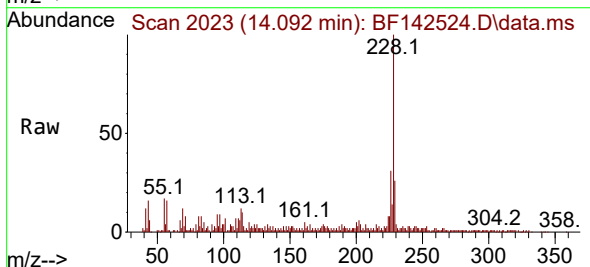
Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-052125

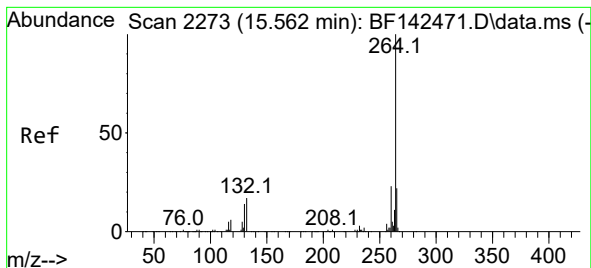
Tgt Ion:228 Resp: 75259  
Ion Ratio Lower Upper  
228 100  
226 31.3 21.2 31.8  
229 23.7 15.5 23.3#



#83  
Chrysene  
Concen: 6.235 ng  
RT: 14.092 min Scan# 2023  
Delta R.T. -0.012 min  
Lab File: BF142524.D  
Acq: 22 May 2025 21:51

Tgt Ion:228 Resp: 56384  
Ion Ratio Lower Upper  
228 100  
226 30.8 23.8 35.6  
229 25.6 15.4 23.2#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA\_F

ClientSampleId :

TR-06-052125

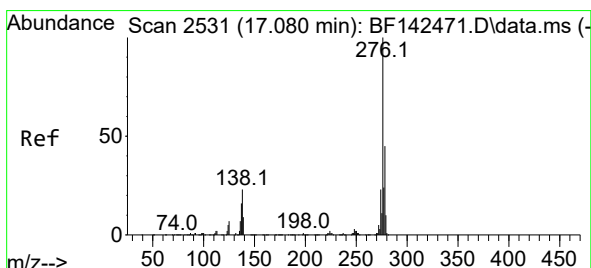
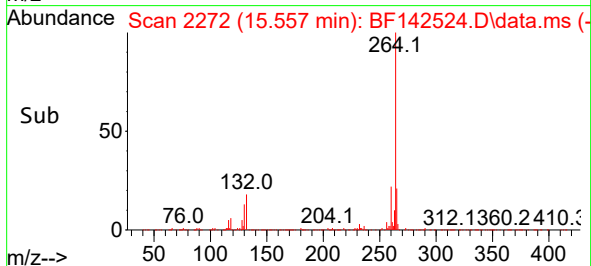
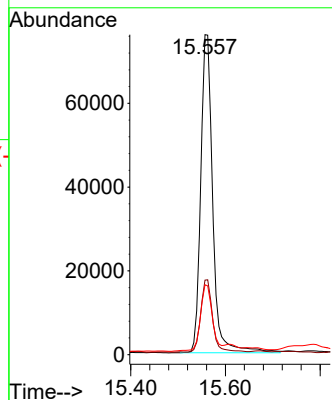
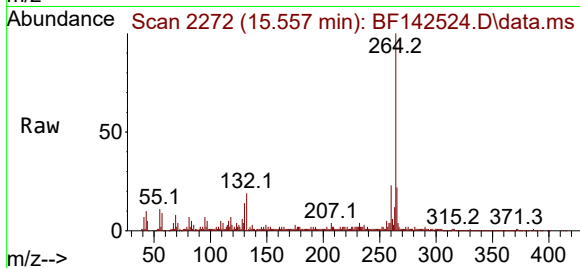
Tgt Ion:264 Resp: 134091

Ion Ratio Lower Upper

264 100

260 23.3 18.6 28.0

265 21.9 17.7 26.5



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.615 ng

RT: 17.063 min Scan# 2528

Delta R.T. -0.029 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

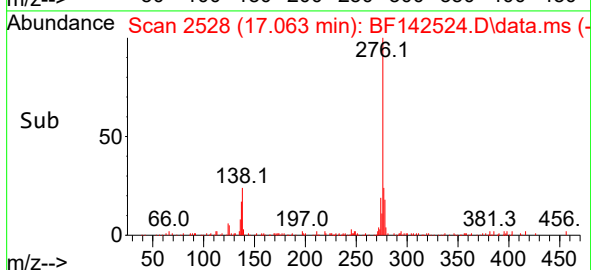
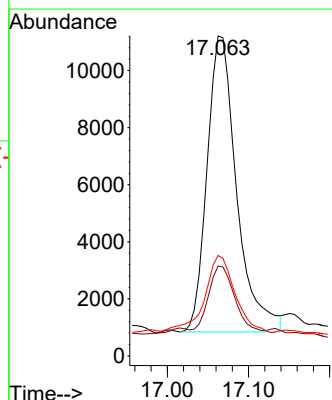
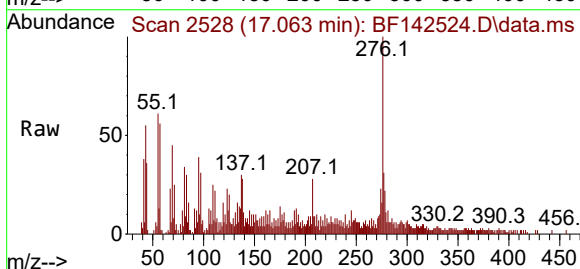
Tgt Ion:276 Resp: 26326

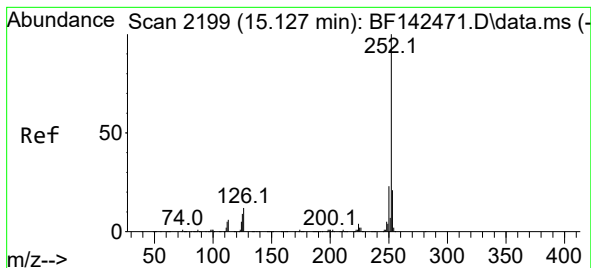
Ion Ratio Lower Upper

276 100

138 19.4 19.9 29.9#

277 29.7 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 10.233 ng m

RT: 15.121 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA\_F

ClientSampleId :

TR-06-052125

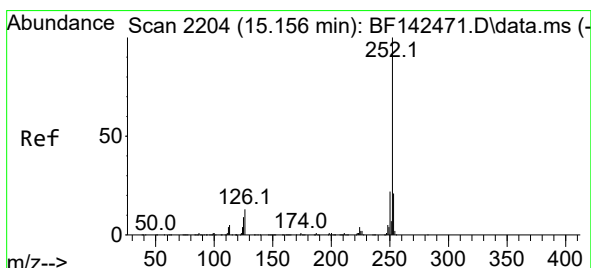
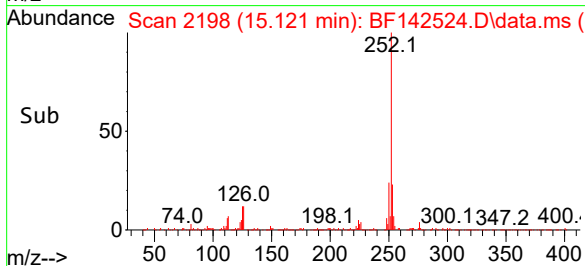
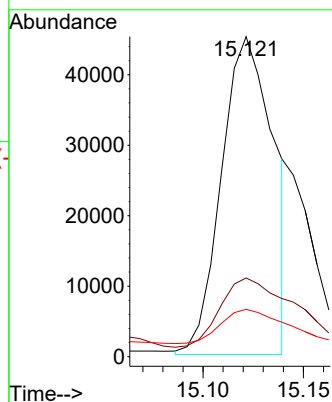
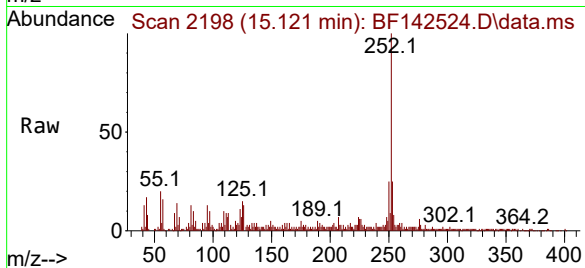
Tgt Ion:252 Resp: 81213

Ion Ratio Lower Upper

252 100

253 24.6 17.0 25.4

125 14.8 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 3.315 ng m

RT: 15.139 min Scan# 2201

Delta R.T. -0.023 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

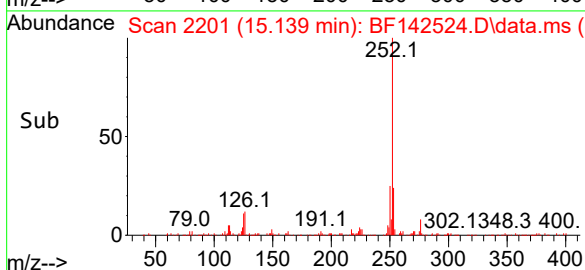
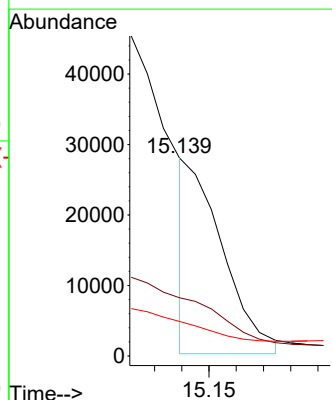
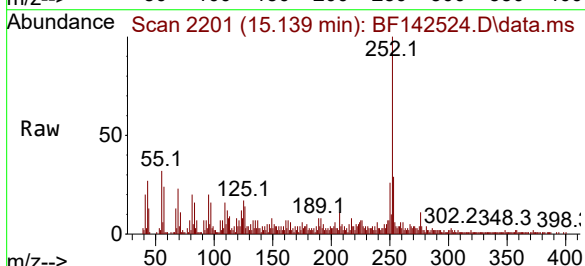
Tgt Ion:252 Resp: 24642

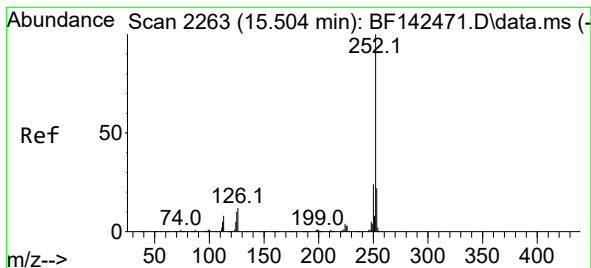
Ion Ratio Lower Upper

252 100

253 29.4 17.0 25.4#

125 17.4 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 7.398 ng

RT: 15.492 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA\_F

ClientSampleId :

TR-06-052125

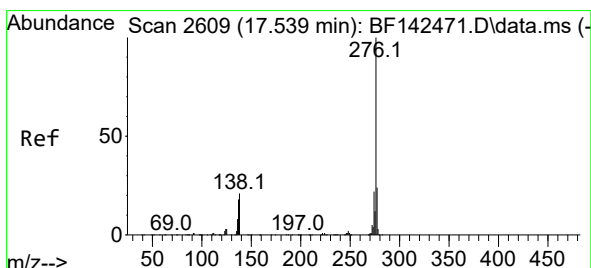
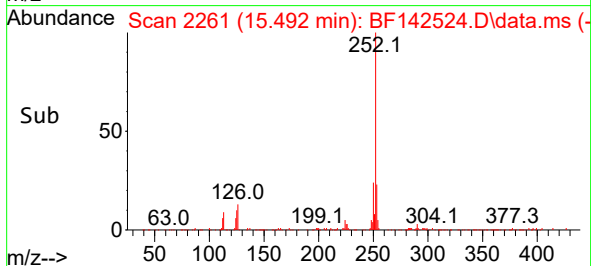
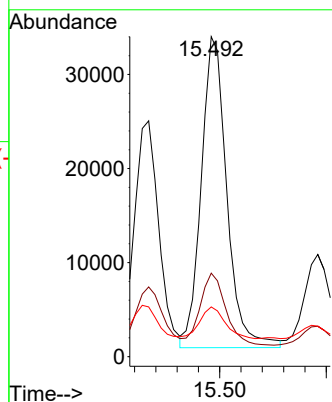
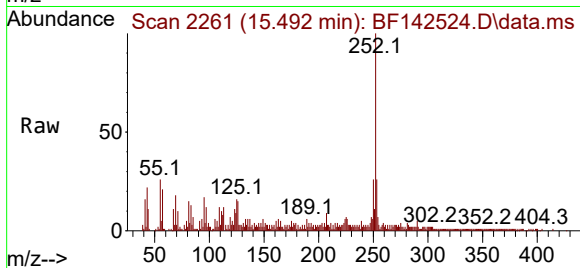
Tgt Ion:252 Resp: 55338

Ion Ratio Lower Upper

252 100

253 26.1 17.4 26.0#

125 15.6 7.9 11.9#



#92

Benzo(g,h,i)perylene

Concen: 3.186 ng

RT: 17.521 min Scan# 2606

Delta R.T. -0.035 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Tgt Ion:276 Resp: 26016

Ion Ratio Lower Upper

276 100

277 27.8 19.2 28.8

138 26.6 16.8 25.2#

