

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032725\  
 Data File : BF142131.D  
 Acq On : 27 Mar 2025 18:15  
 Operator : RC/JU  
 Sample : Q1648-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-5

Quant Time: Mar 28 01:55:22 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 10 15:46:22 2025  
 Response via : Initial Calibration

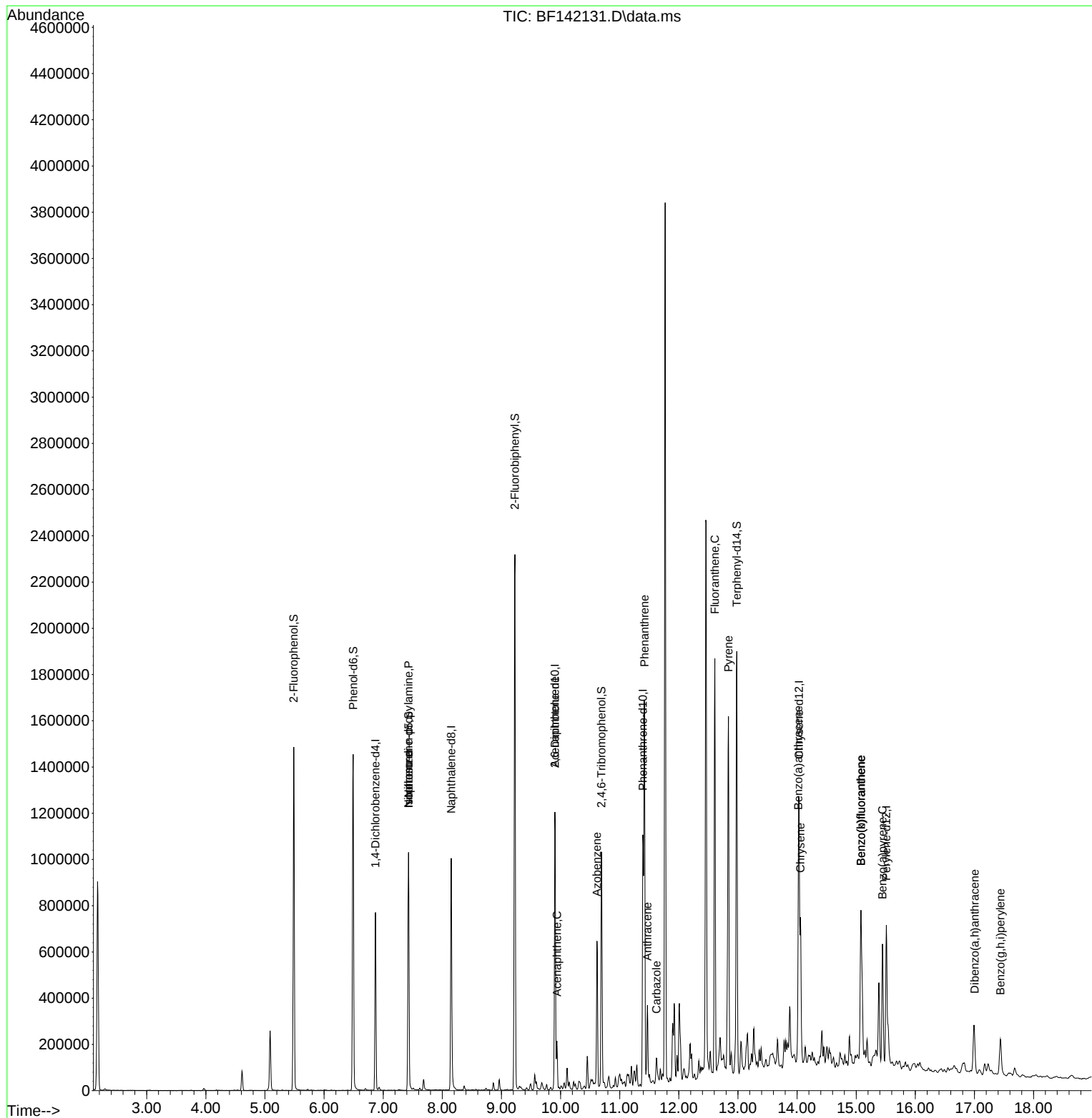
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 160953   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.151  | 136  | 652864   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.904  | 164  | 363751   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.392 | 188  | 563087   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 14.033 | 240  | 319273   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.510 | 264  | 361029   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 571255   | 59.235 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.492  | 99   | 706069   | 57.503 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.428  | 82   | 462705   | 39.884 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 175073   | 37.938 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.228  | 172  | 1054561  | 44.090 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.980 | 244  | 892358   | 41.322 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.428  | 70   | 62817    | 7.962  | ng    | # 77     |
| 25) Isophorone                | 7.428  | 82   | 452261   | 22.054 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene        | 9.904  | 165  | 50260    | 9.477  | ng    | # 23     |
| 52) Acenaphthene              | 9.939  | 154  | 64361    | 2.996  | ng    | 100      |
| 63) Azobenzene                | 10.616 | 77   | 149287   | 6.322  | ng    | # 1      |
| 71) Phenanthrene              | 11.422 | 178  | 910069   | 29.923 | ng    | 99       |
| 72) Anthracene                | 11.469 | 178  | 196584   | 6.443  | ng    | 98       |
| 73) Carbazole                 | 11.622 | 167  | 53917    | 2.049  | ng    | 99       |
| 75) Fluoranthene              | 12.610 | 202  | 1029949  | 31.924 | ng    | 99       |
| 78) Pyrene                    | 12.839 | 202  | 904567   | 32.753 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 391479   | 18.686 | ng    | 98       |
| 83) Chrysene                  | 14.057 | 228  | 336457   | 17.716 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.080 | 252  | 566980   | 22.914 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.080 | 252  | 566980   | 26.776 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.445 | 252  | 327297   | 16.905 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.004 | 278  | 42344    | 2.197  | ng    | 93       |
| 92) Benzo(g,h,i)perylene      | 17.439 | 276  | 144380   | 7.582  | ng    | 98       |
| -----                         |        |      |          |        |       |          |

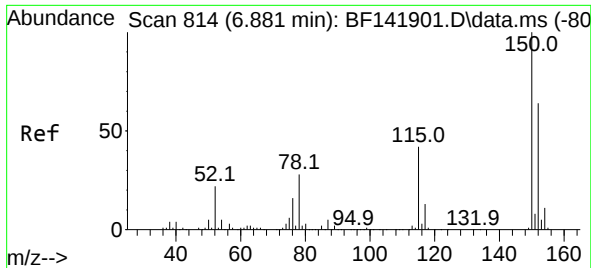
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032725\  
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QLast Update : Mon Mar 10 15:46:22 2025  
Response via : Initial Calibration

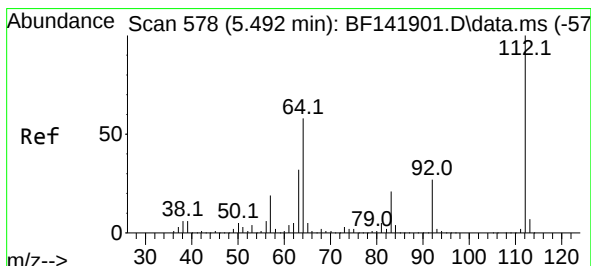
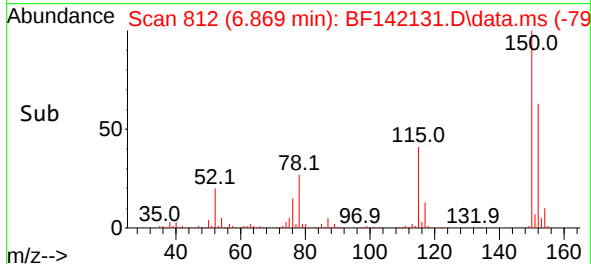
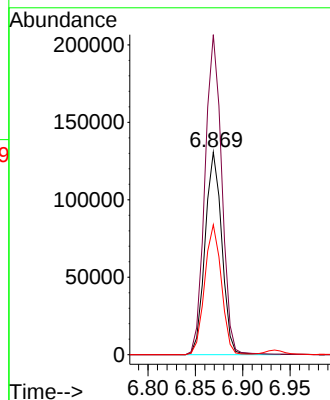
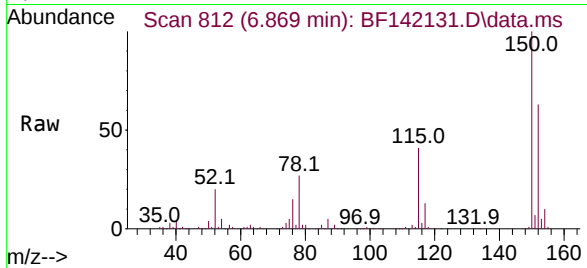




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 814  
Delta R.T. -0.012 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

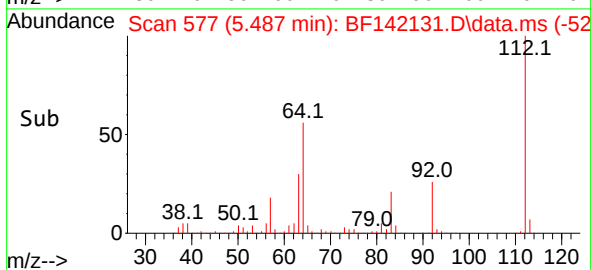
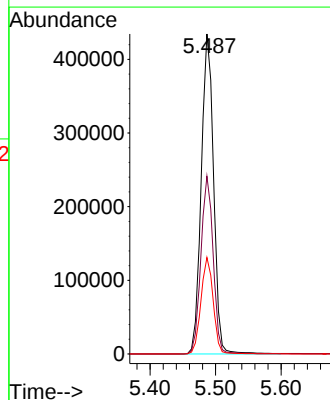
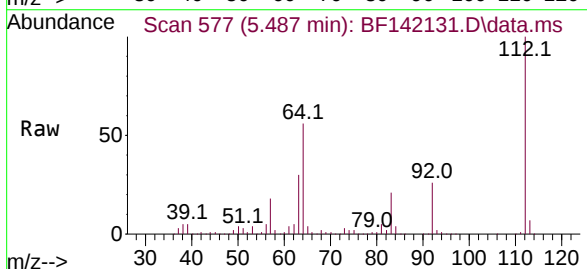
Instrument :  
BNA\_F  
ClientSampleId :  
TP-5

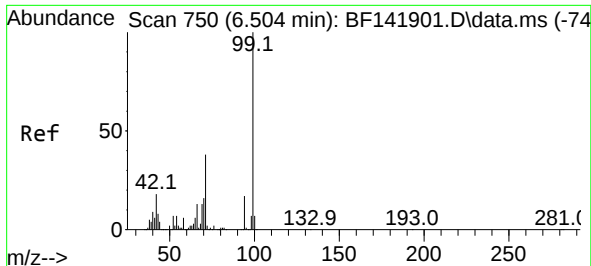
Tgt Ion:152 Resp: 160953  
Ion Ratio Lower Upper  
152 100  
150 157.9 127.4 191.2  
115 64.1 51.9 77.9



#5  
2-Fluorophenol  
Concen: 59.235 ng  
RT: 5.487 min Scan# 577  
Delta R.T. -0.006 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

Tgt Ion:112 Resp: 571255  
Ion Ratio Lower Upper  
112 100  
64 55.5 46.5 69.7  
63 30.1 25.4 38.2

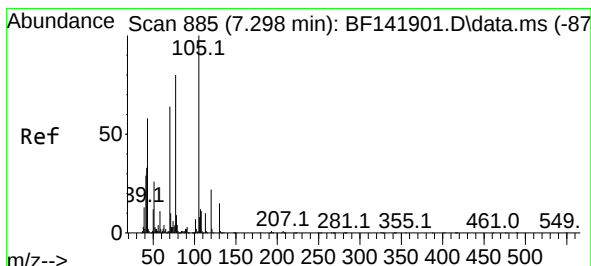
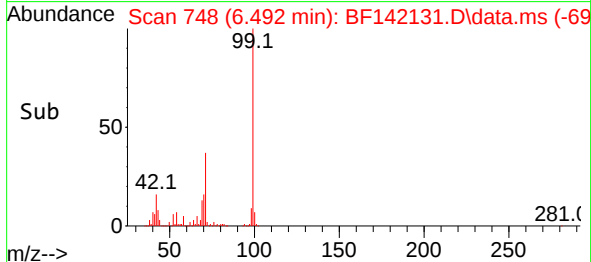
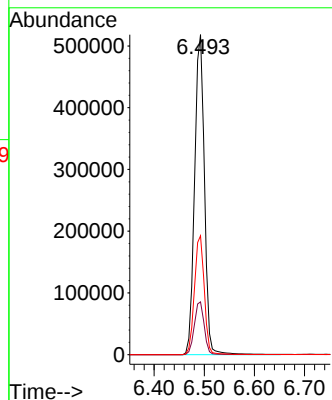
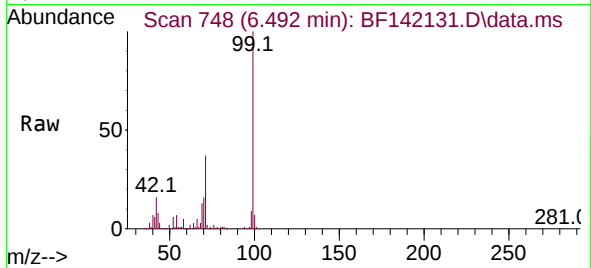




#7  
Phenol-d6  
Concen: 57.503 ng  
RT: 6.492 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

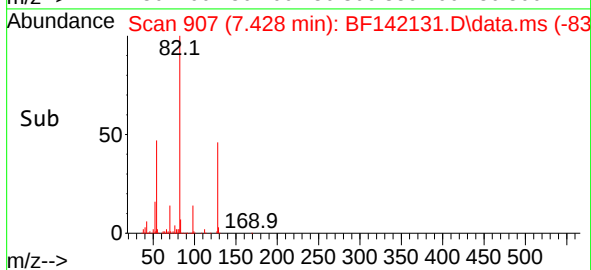
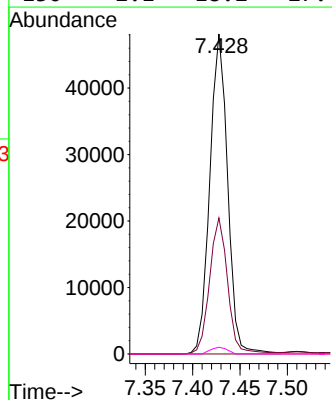
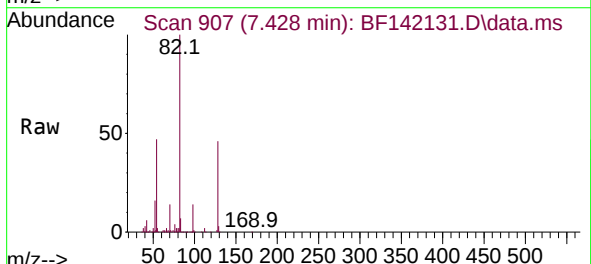
Instrument :  
BNA\_F  
ClientSampleId :  
TP-5

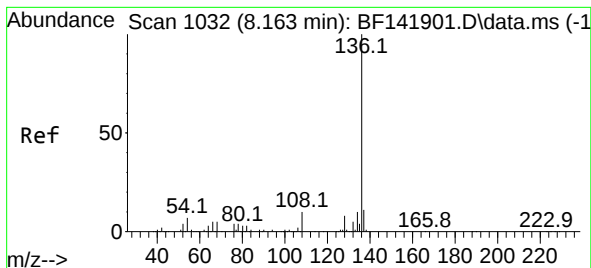
Tgt Ion: 99 Resp: 706069  
Ion Ratio Lower Upper  
99 100  
42 16.5 14.6 21.8  
71 37.1 30.8 46.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 7.962 ng  
RT: 7.428 min Scan# 907  
Delta R.T. 0.130 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

Tgt Ion: 70 Resp: 62817  
Ion Ratio Lower Upper  
70 100  
42 42.5 41.4 62.0  
101 0.0 8.2 12.2#  
130 2.1 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.151 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

Instrument :

BNA\_F

ClientSampleId :

TP-5

Tgt Ion:136 Resp: 652864

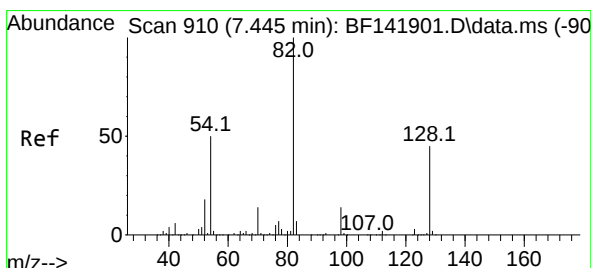
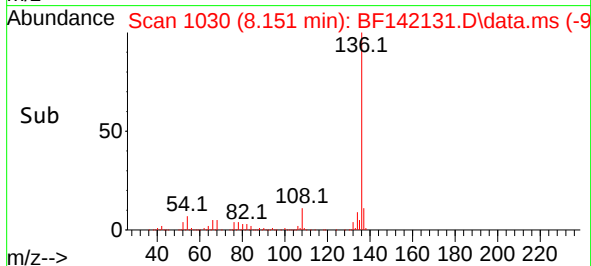
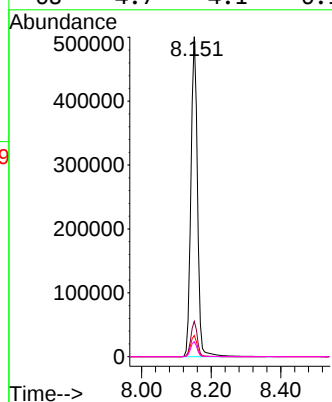
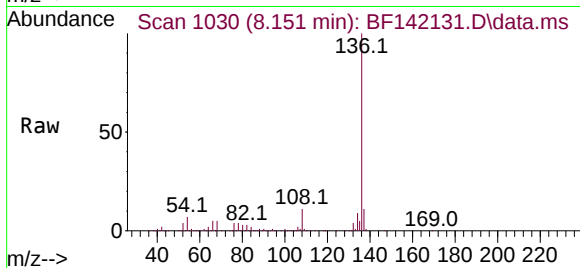
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 6.6 5.8 8.8

68 4.7 4.1 6.1



#23

Nitrobenzene-d5

Concen: 39.884 ng

RT: 7.428 min Scan# 907

Delta R.T. -0.018 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

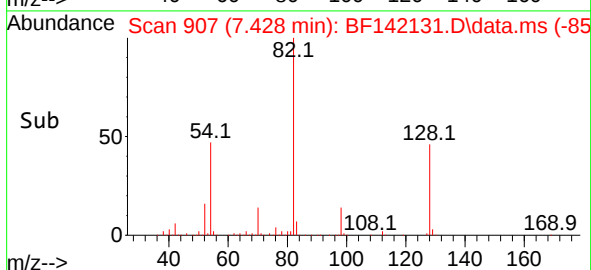
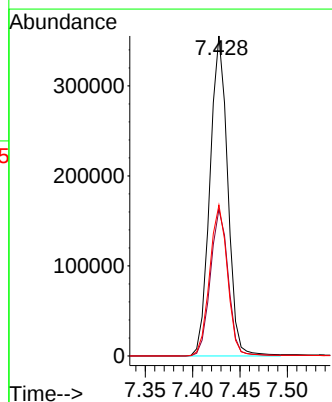
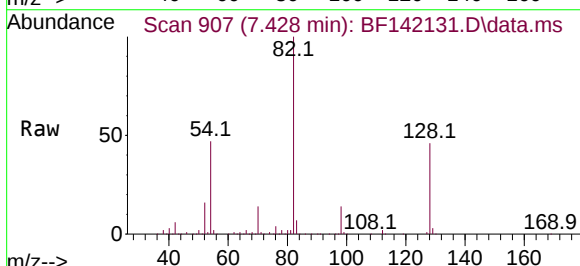
Tgt Ion: 82 Resp: 462705

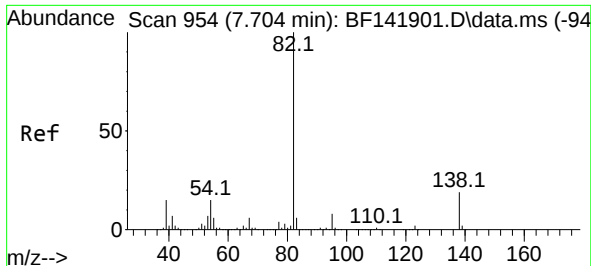
Ion Ratio Lower Upper

82 100

128 45.8 36.0 54.0

54 47.2 39.6 59.4

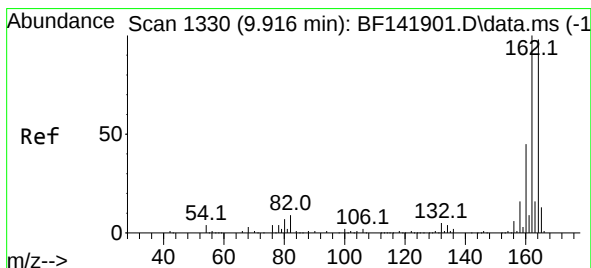
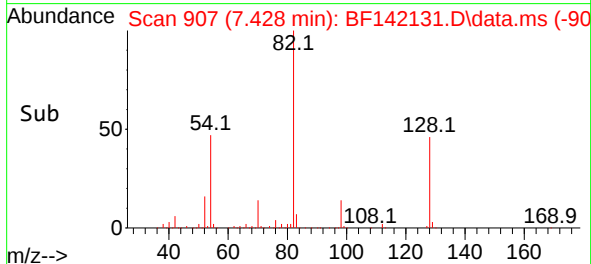
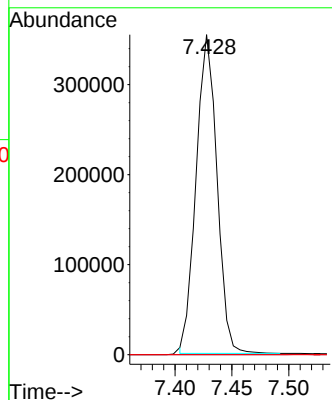
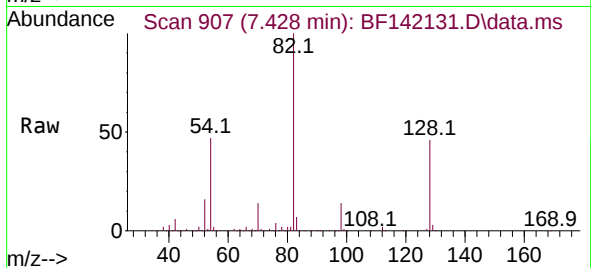




#25  
Isophorone  
Concen: 22.054 ng  
RT: 7.428 min Scan# 90  
Delta R.T. -0.276 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

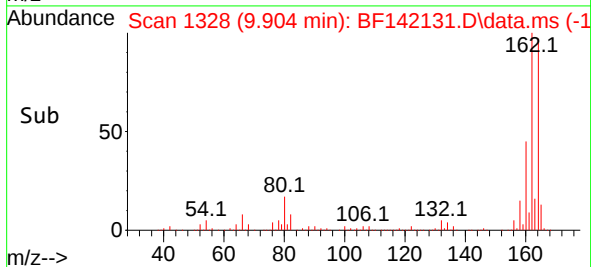
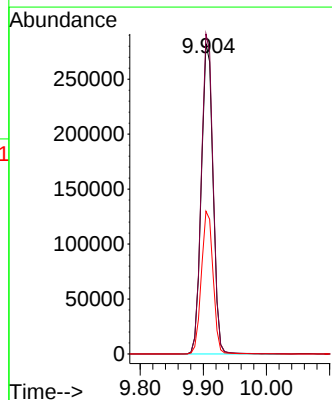
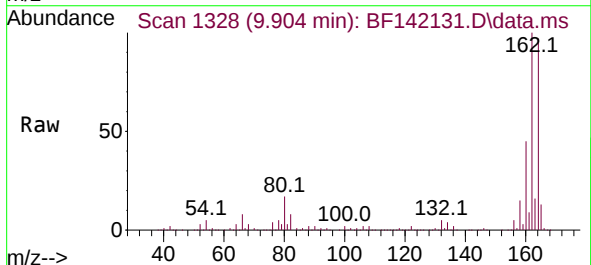
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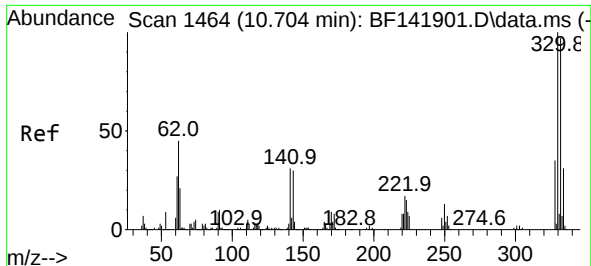
Tgt Ion: 82 Resp: 452261  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.4 9.6#  
138 0.0 14.9 22.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.904 min Scan# 1328  
Delta R.T. -0.012 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

Tgt Ion:164 Resp: 363751  
Ion Ratio Lower Upper  
164 100  
162 103.1 81.8 122.6  
160 46.0 36.7 55.1

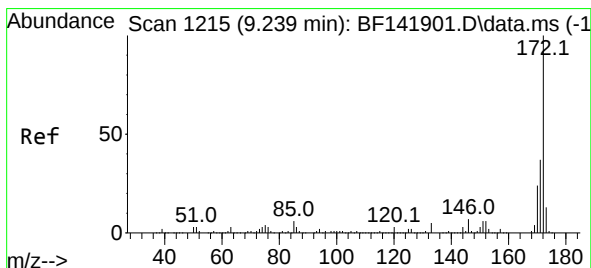
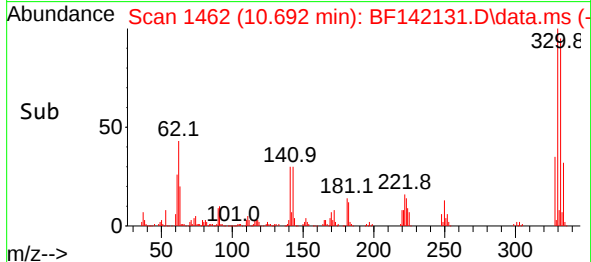
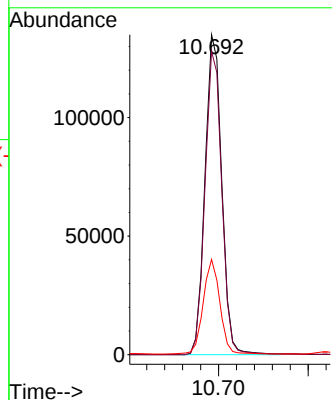
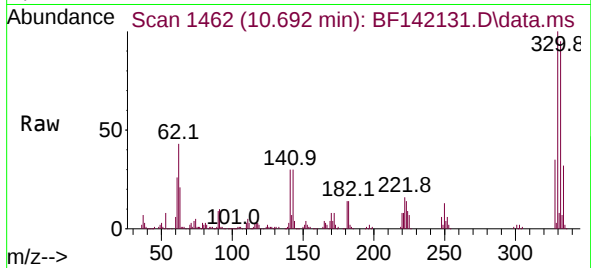




#42  
2,4,6-Tribromophenol  
Concen: 37.938 ng  
RT: 10.692 min Scan# 1462  
Delta R.T. -0.012 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

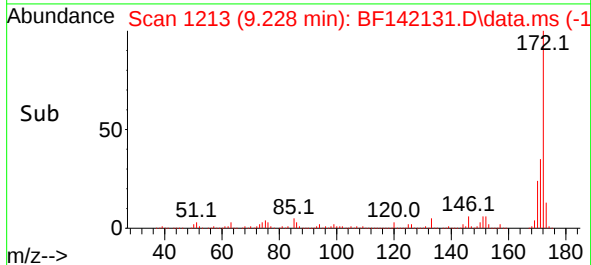
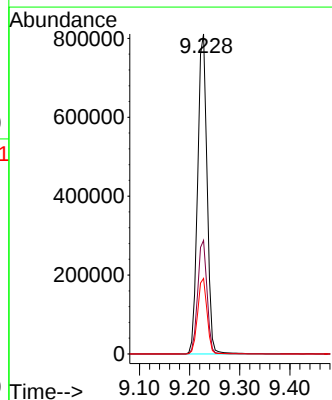
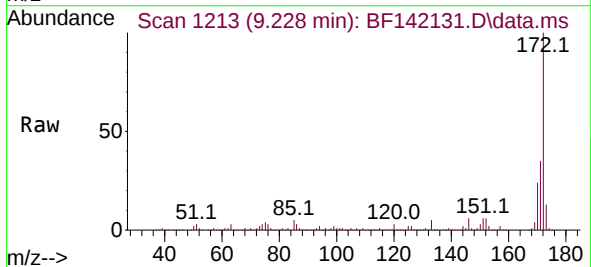
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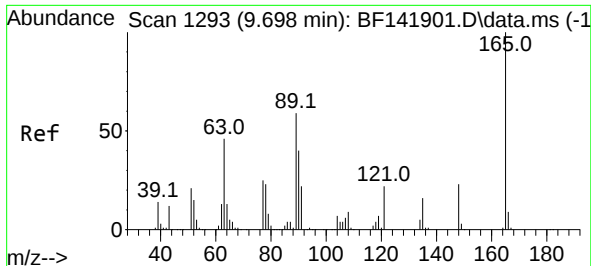
Tgt Ion:330 Resp: 175073  
Ion Ratio Lower Upper  
330 100  
332 95.3 77.6 116.4  
141 29.3 24.7 37.1



#45  
2-Fluorobiphenyl  
Concen: 44.090 ng  
RT: 9.228 min Scan# 1213  
Delta R.T. -0.012 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

Tgt Ion:172 Resp: 1054561  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.3 43.9  
170 23.6 19.4 29.0

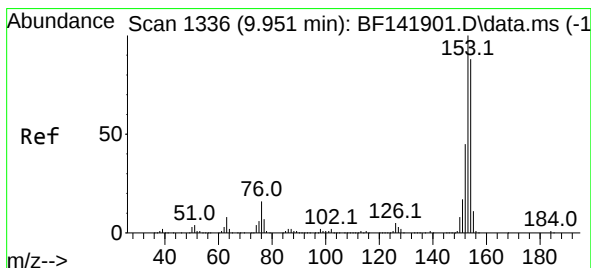
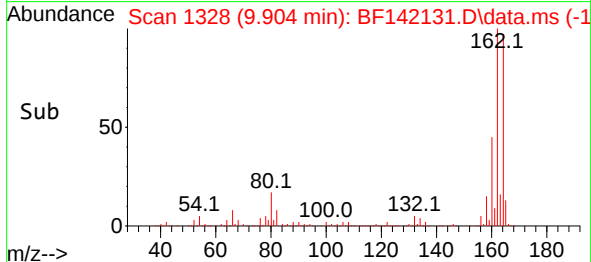
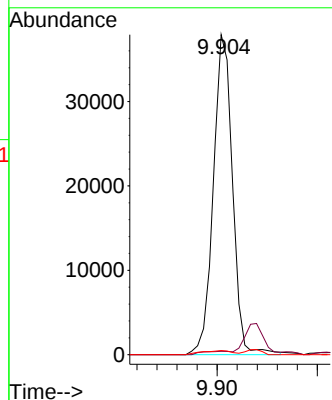
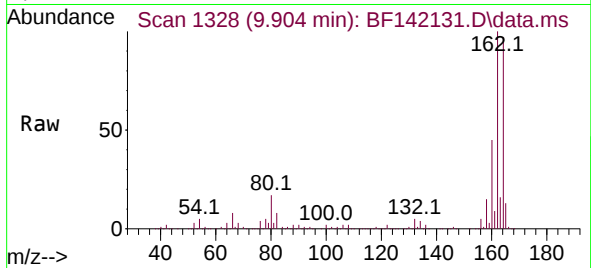




#51  
2,6-Dinitrotoluene  
Concen: 9.477 ng  
RT: 9.904 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

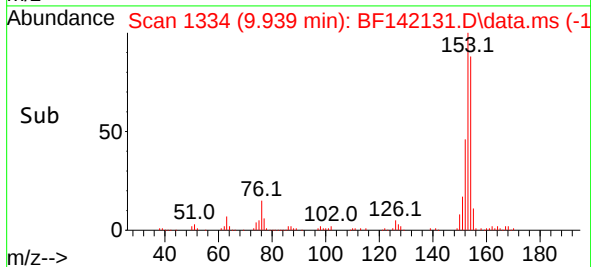
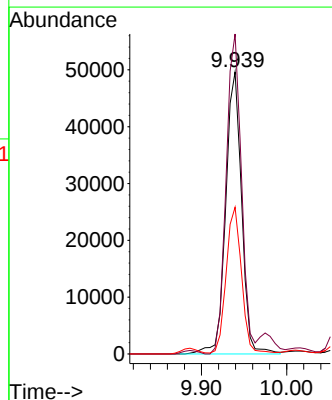
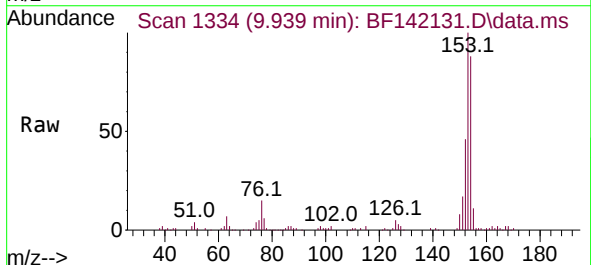
Instrument :  
BNA\_F  
ClientSampleId :  
TP-5

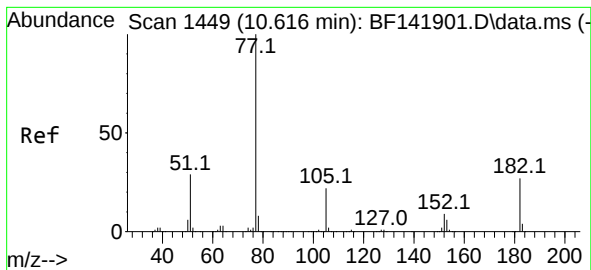
Tgt Ion:165 Resp: 50260  
Ion Ratio Lower Upper  
165 100  
63 1.0 47.0 70.4#  
89 1.3 47.4 71.2#



#52  
Acenaphthene  
Concen: 2.996 ng  
RT: 9.939 min Scan# 1334  
Delta R.T. -0.012 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

Tgt Ion:154 Resp: 64361  
Ion Ratio Lower Upper  
154 100  
153 113.4 90.7 136.1  
152 52.0 41.1 61.7





#63

Azobenzene

Concen: 6.322 ng

RT: 10.616 min Scan# 1449

Delta R.T. 0.000 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

Instrument :

BNA\_F

ClientSampleId :

TP-5

Tgt Ion: 77 Resp: 149287

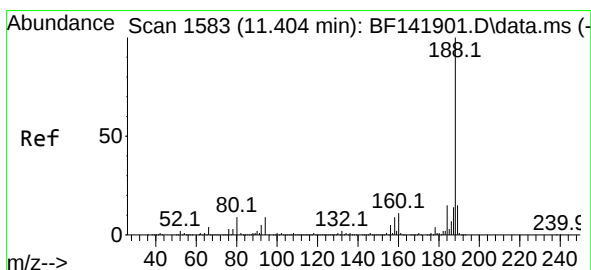
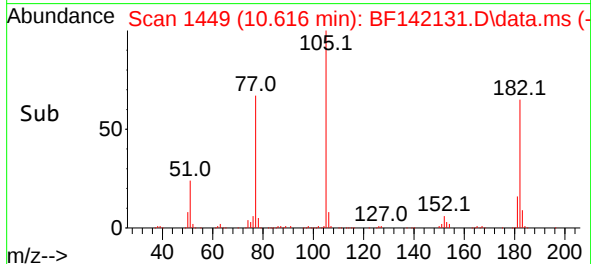
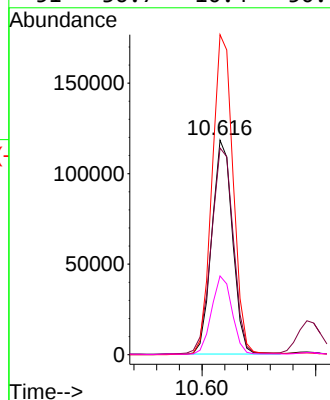
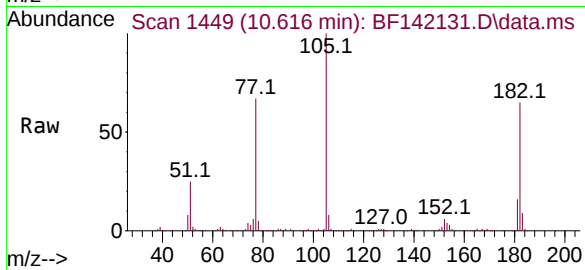
Ion Ratio Lower Upper

77 100

182 96.4 6.6 46.6#

105 149.3 1.3 41.3#

51 36.7 10.4 50.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

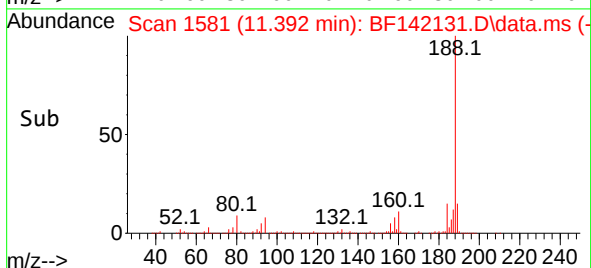
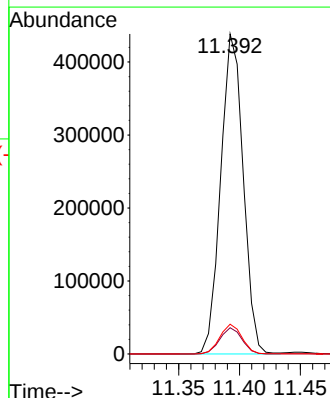
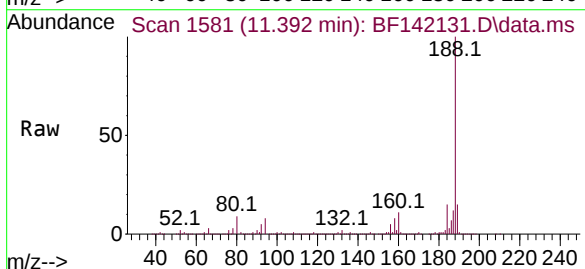
Tgt Ion: 188 Resp: 563087

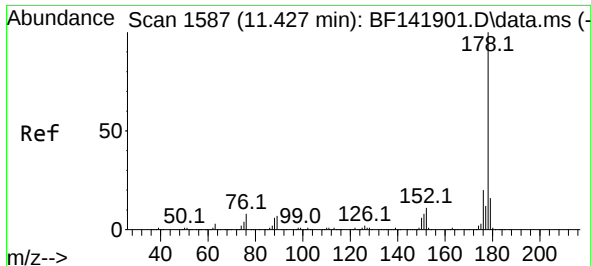
Ion Ratio Lower Upper

188 100

94 8.2 6.8 10.2

80 9.3 7.6 11.4

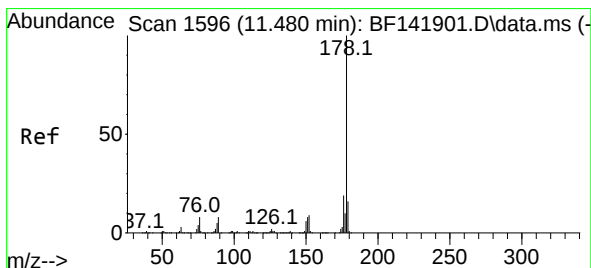
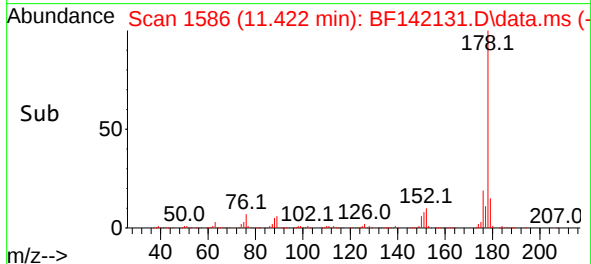
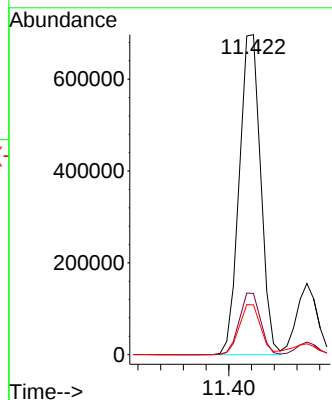
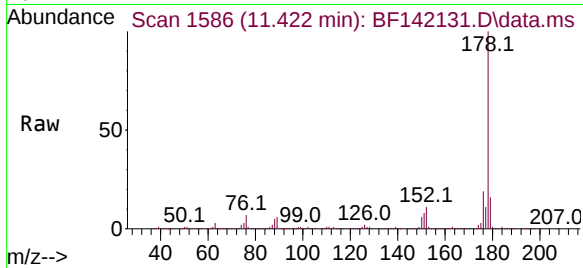




#71  
Phenanthrene  
Concen: 29.923 ng  
RT: 11.422 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

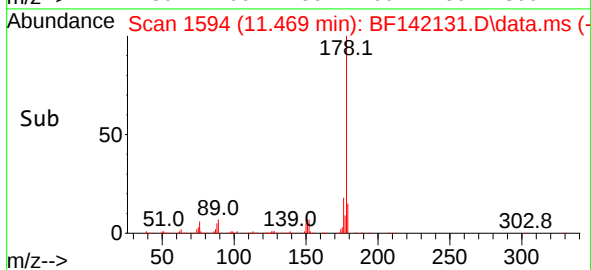
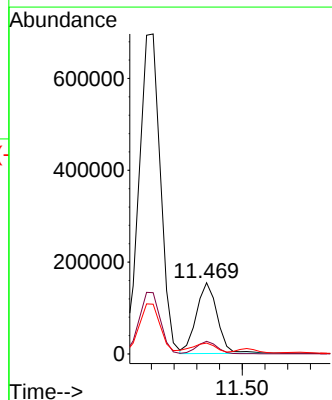
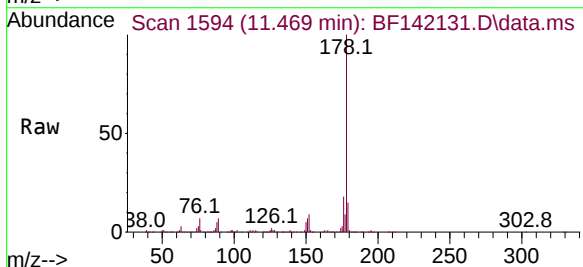
Instrument :  
BNA\_F  
ClientSampleId :  
TP-5

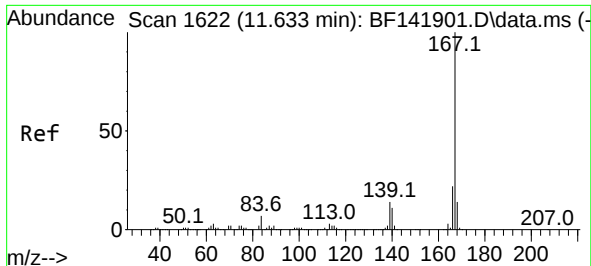
Tgt Ion:178 Resp: 910069  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.8 23.8  
179 15.5 12.6 19.0



#72  
Anthracene  
Concen: 6.443 ng  
RT: 11.469 min Scan# 1594  
Delta R.T. -0.012 min  
Lab File: BF142131.D  
Acq: 27 Mar 2025 18:15

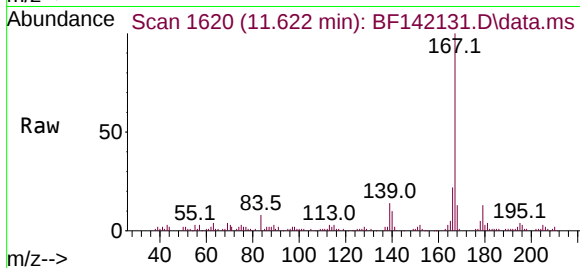
Tgt Ion:178 Resp: 196584  
Ion Ratio Lower Upper  
178 100  
176 17.9 15.1 22.7  
179 15.3 12.6 19.0



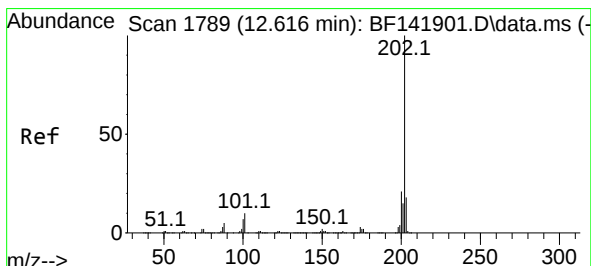
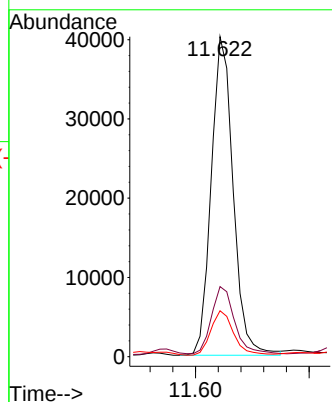
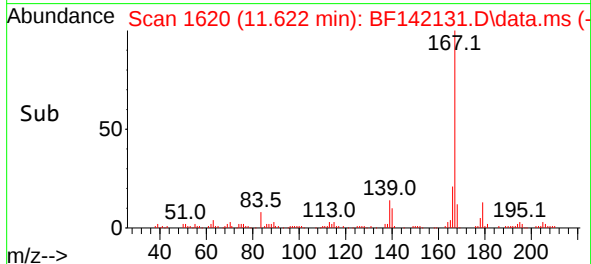


#73  
 Carbazole  
 Concen: 2.049 ng  
 RT: 11.622 min Scan# 1620  
 Delta R.T. -0.012 min  
 Lab File: BF142131.D  
 Acq: 27 Mar 2025 18:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-5

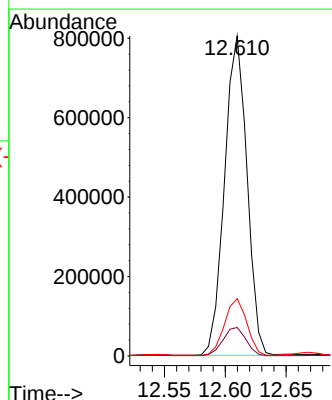
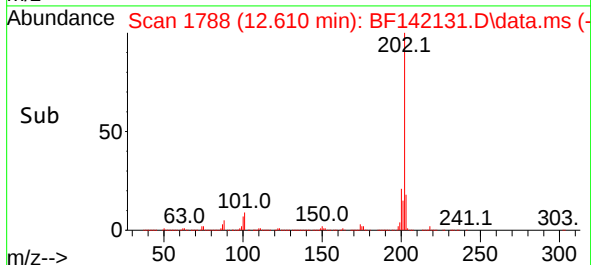
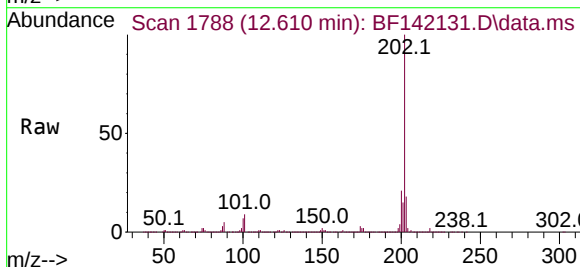


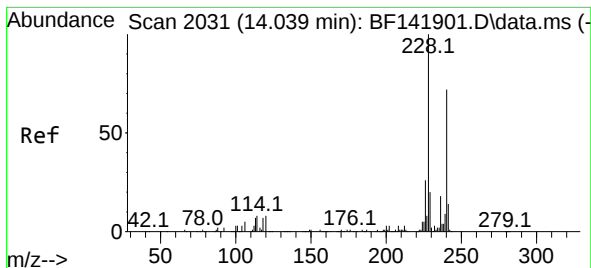
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.9  | 17.4  | 26.2  |
| 139     | 14.3  | 11.0  | 16.6  |



#75  
 Fluoranthene  
 Concen: 31.924 ng  
 RT: 12.610 min Scan# 1788  
 Delta R.T. -0.006 min  
 Lab File: BF142131.D  
 Acq: 27 Mar 2025 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.9   | 0.0   | 29.7  |
| 203     | 17.9  | 0.0   | 37.8  |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

Instrument :

BNA\_F

ClientSampleId :

TP-5

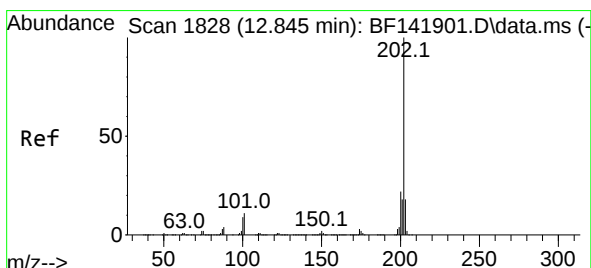
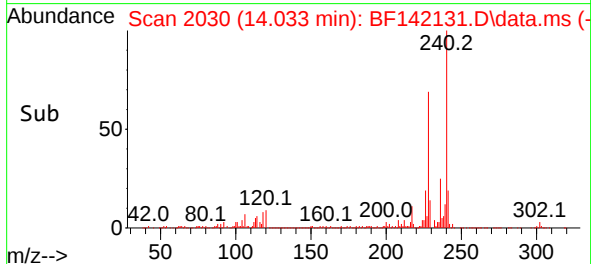
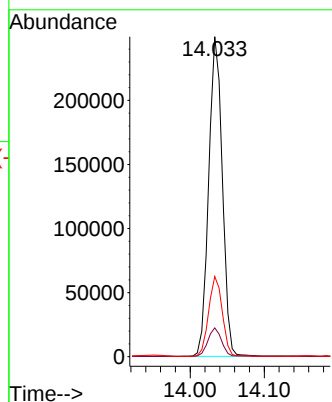
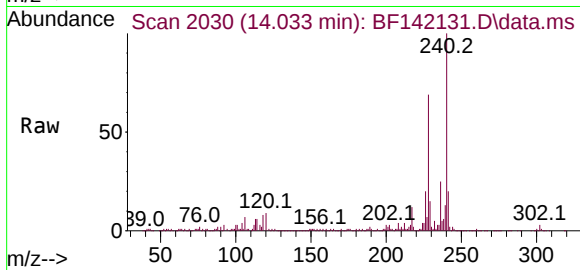
Tgt Ion:240 Resp: 319273

Ion Ratio Lower Upper

240 100

120 9.0 8.4 12.6

236 25.1 20.5 30.7



#78

Pyrene

Concen: 32.753 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.006 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

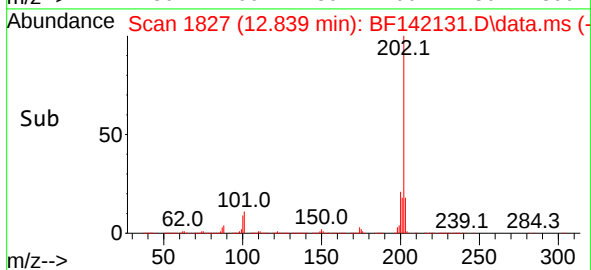
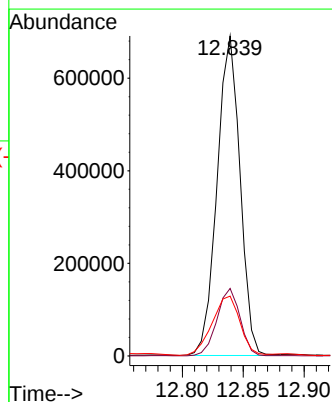
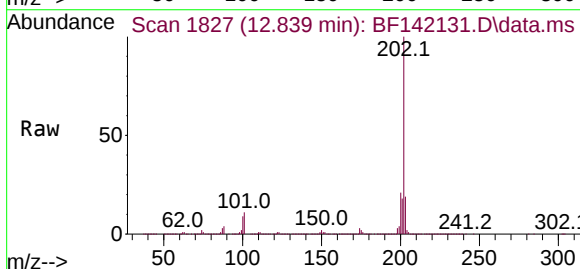
Tgt Ion:202 Resp: 904567

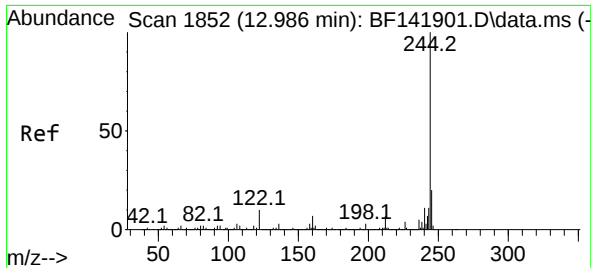
Ion Ratio Lower Upper

202 100

200 21.1 17.3 25.9

203 18.7 14.4 21.6

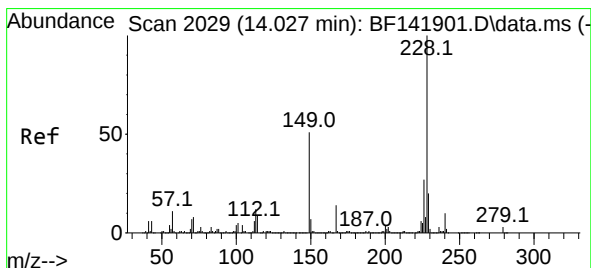
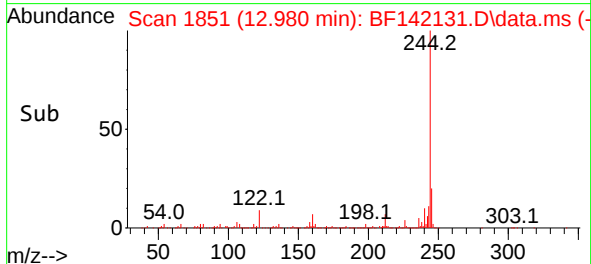
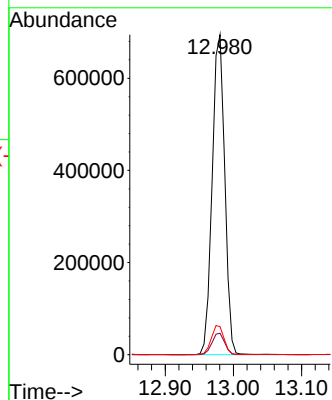
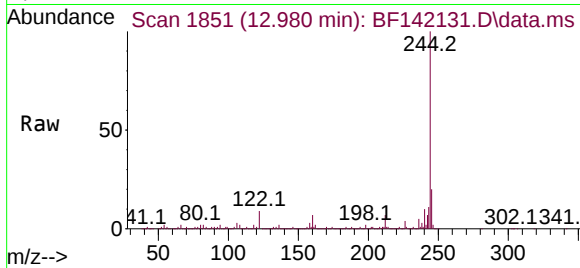




#79  
 Terphenyl-d14  
 Concen: 41.322 ng  
 RT: 12.980 min Scan# 1852  
 Delta R.T. -0.006 min  
 Lab File: BF142131.D  
 Acq: 27 Mar 2025 18:15

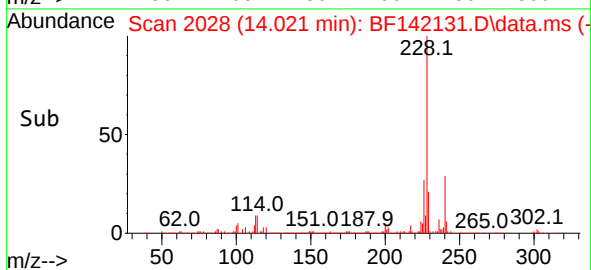
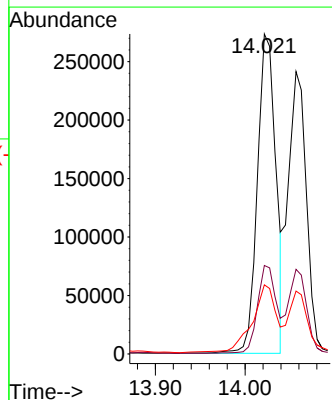
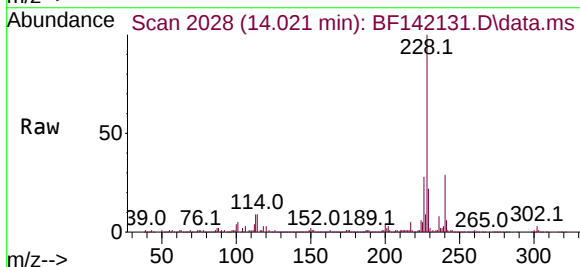
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-5

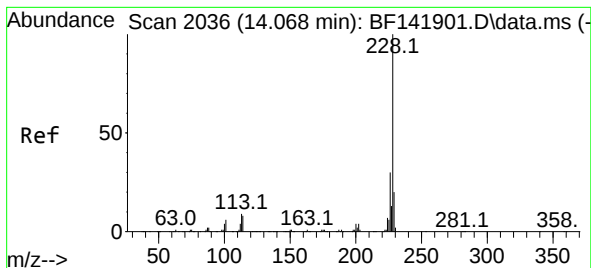
Tgt Ion:244 Resp: 892358  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 6.0 9.0  
 122 8.8 7.7 11.5



#81  
 Benzo(a)anthracene  
 Concen: 18.686 ng  
 RT: 14.021 min Scan# 2028  
 Delta R.T. -0.006 min  
 Lab File: BF142131.D  
 Acq: 27 Mar 2025 18:15

Tgt Ion:228 Resp: 391479  
 Ion Ratio Lower Upper  
 228 100  
 226 27.7 21.8 32.8  
 229 21.6 16.0 24.0





#83

Chrysene

Concen: 17.716 ng

RT: 14.057 min Scan# 2036

Delta R.T. -0.012 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

Instrument :

BNA\_F

ClientSampleId :

TP-5

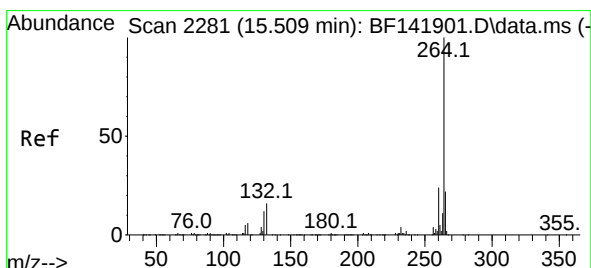
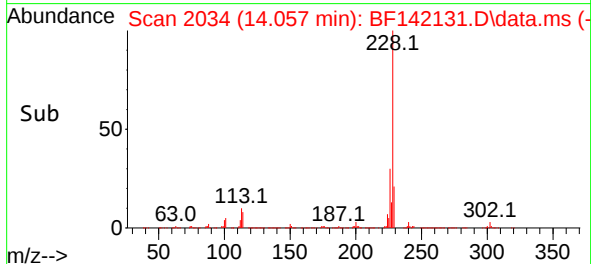
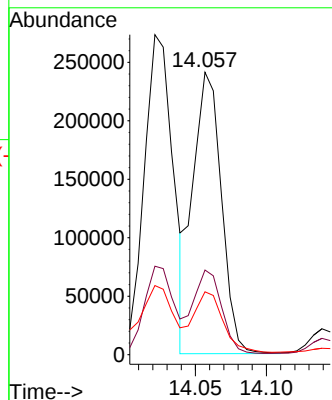
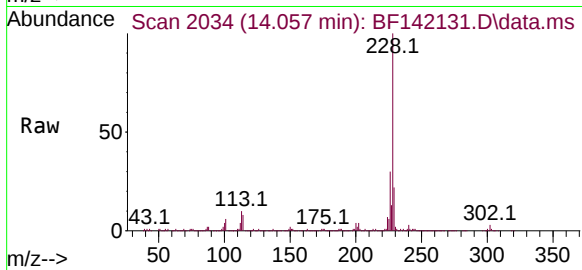
Tgt Ion:228 Resp: 336457

Ion Ratio Lower Upper

228 100

226 30.0 24.1 36.1

229 22.3 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. 0.000 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

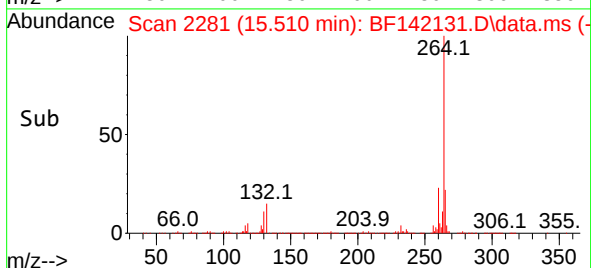
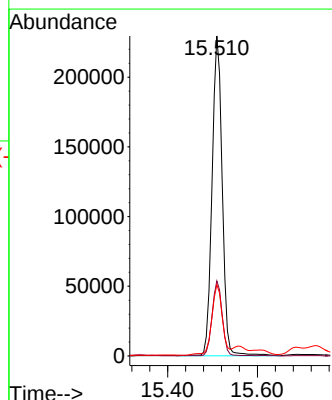
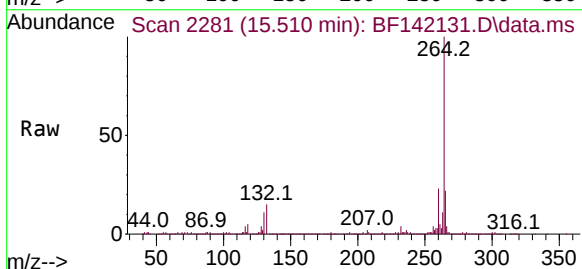
Tgt Ion:264 Resp: 361029

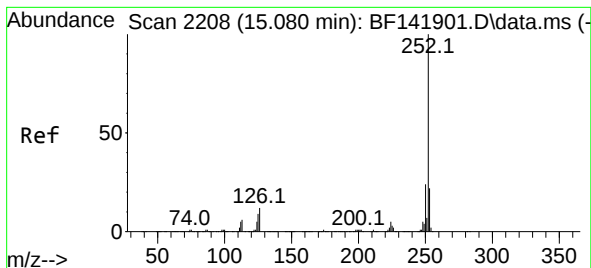
Ion Ratio Lower Upper

264 100

260 23.5 19.1 28.7

265 22.2 17.5 26.3





#88

Benzo(b)fluoranthene

Concen: 22.914 ng

RT: 15.080 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

Instrument :

BNA\_F

ClientSampleId :

TP-5

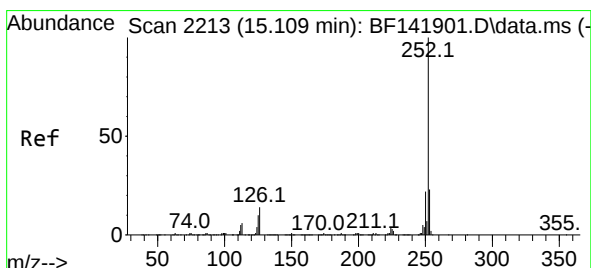
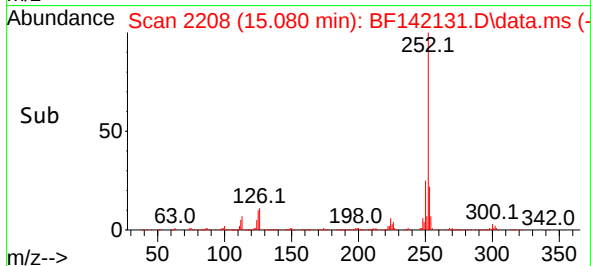
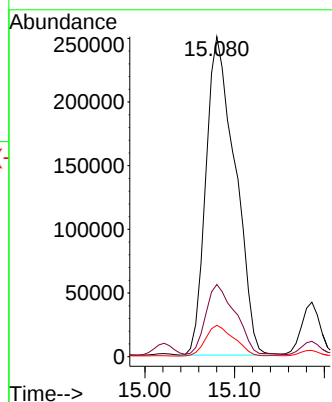
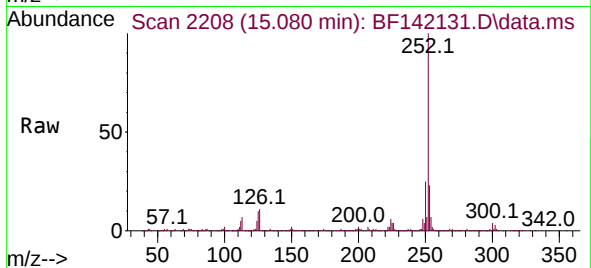
Tgt Ion:252 Resp: 566980

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

125 9.8 7.0 10.4



#89

Benzo(k)fluoranthene

Concen: 26.776 ng

RT: 15.080 min Scan# 2208

Delta R.T. -0.029 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

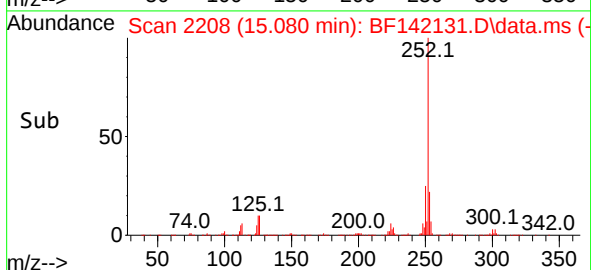
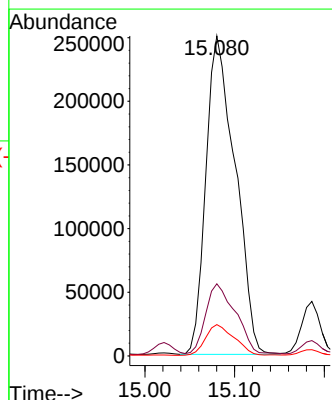
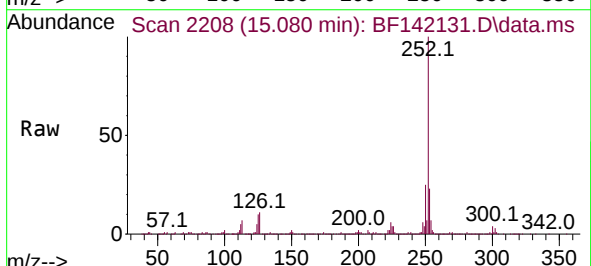
Tgt Ion:252 Resp: 566980

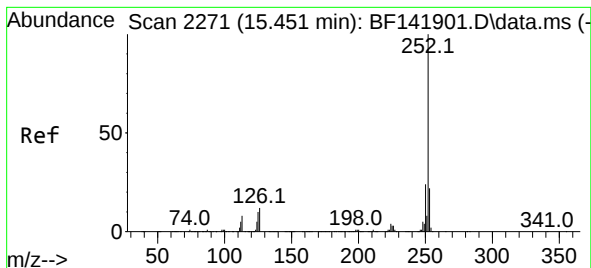
Ion Ratio Lower Upper

252 100

253 22.6 17.7 26.5

125 9.8 7.2 10.8





#90

Benzo(a)pyrene

Concen: 16.905 ng

RT: 15.445 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

Instrument :

BNA\_F

ClientSampleId :

TP-5

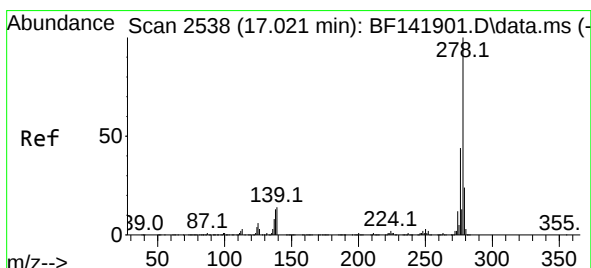
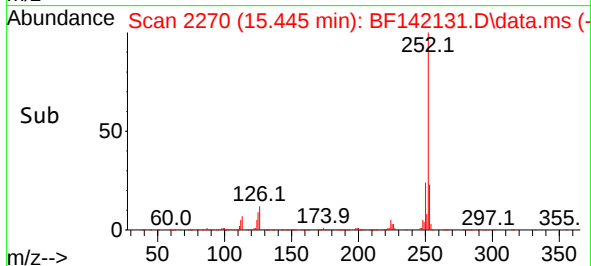
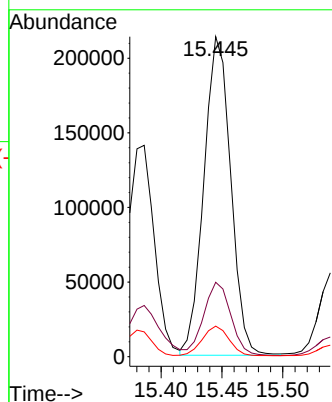
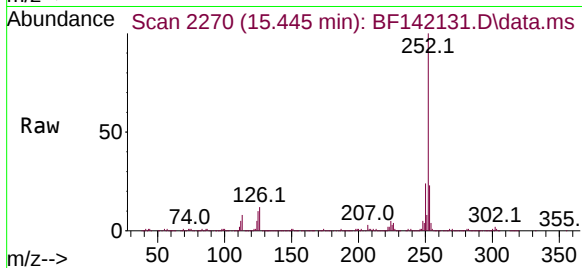
Tgt Ion:252 Resp: 327297

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 9.6 7.8 11.8



#91

Dibenzo(a,h)anthracene

Concen: 2.197 ng

RT: 17.004 min Scan# 2535

Delta R.T. -0.018 min

Lab File: BF142131.D

Acq: 27 Mar 2025 18:15

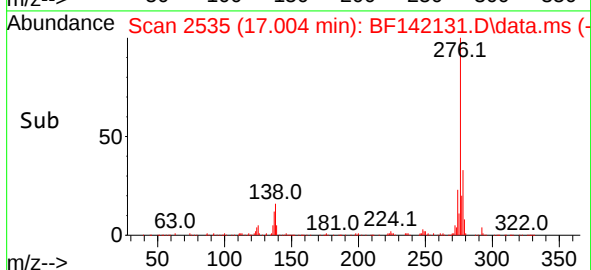
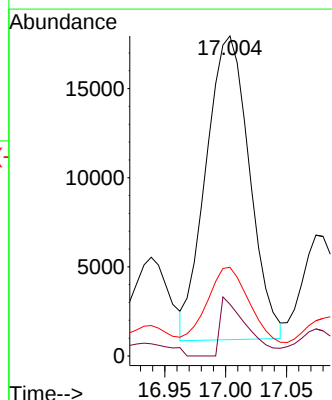
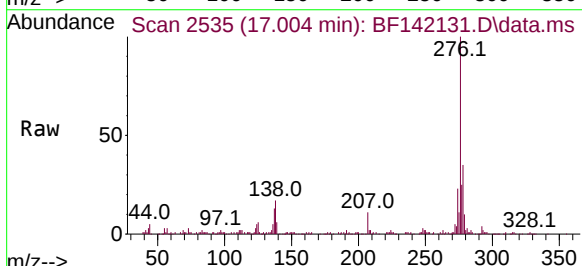
Tgt Ion:278 Resp: 42344

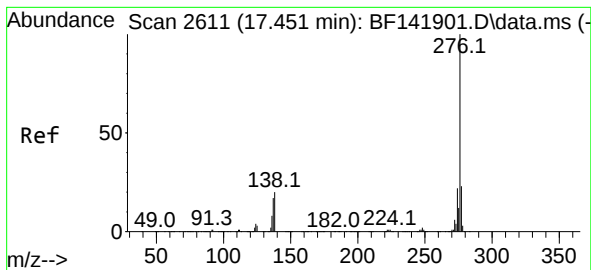
Ion Ratio Lower Upper

278 100

139 16.1 11.4 17.2

279 27.7 18.8 28.2





#92

Benzo(g,h,i)perylene

Concen: 7.582 ng

RT: 17.439 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142131.D

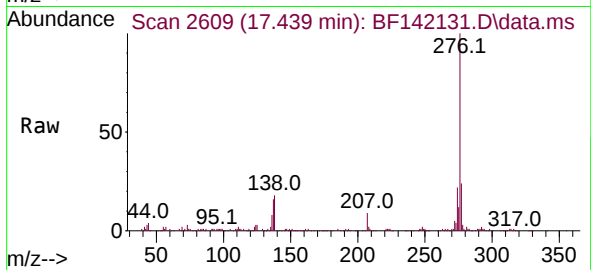
Acq: 27 Mar 2025 18:15

Instrument :

BNA\_F

ClientSampleId :

TP-5



Tgt Ion:276 Resp: 144380

Ion Ratio Lower Upper

276 100

277 23.7 18.7 28.1

138 18.4 15.8 23.8

