

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF053025\  
 Data File : BF142585.D  
 Acq On : 30 May 2025 22:41  
 Operator : RC/JU  
 Sample : Q2150-08  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-52

Quant Time: May 31 00:11:53 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

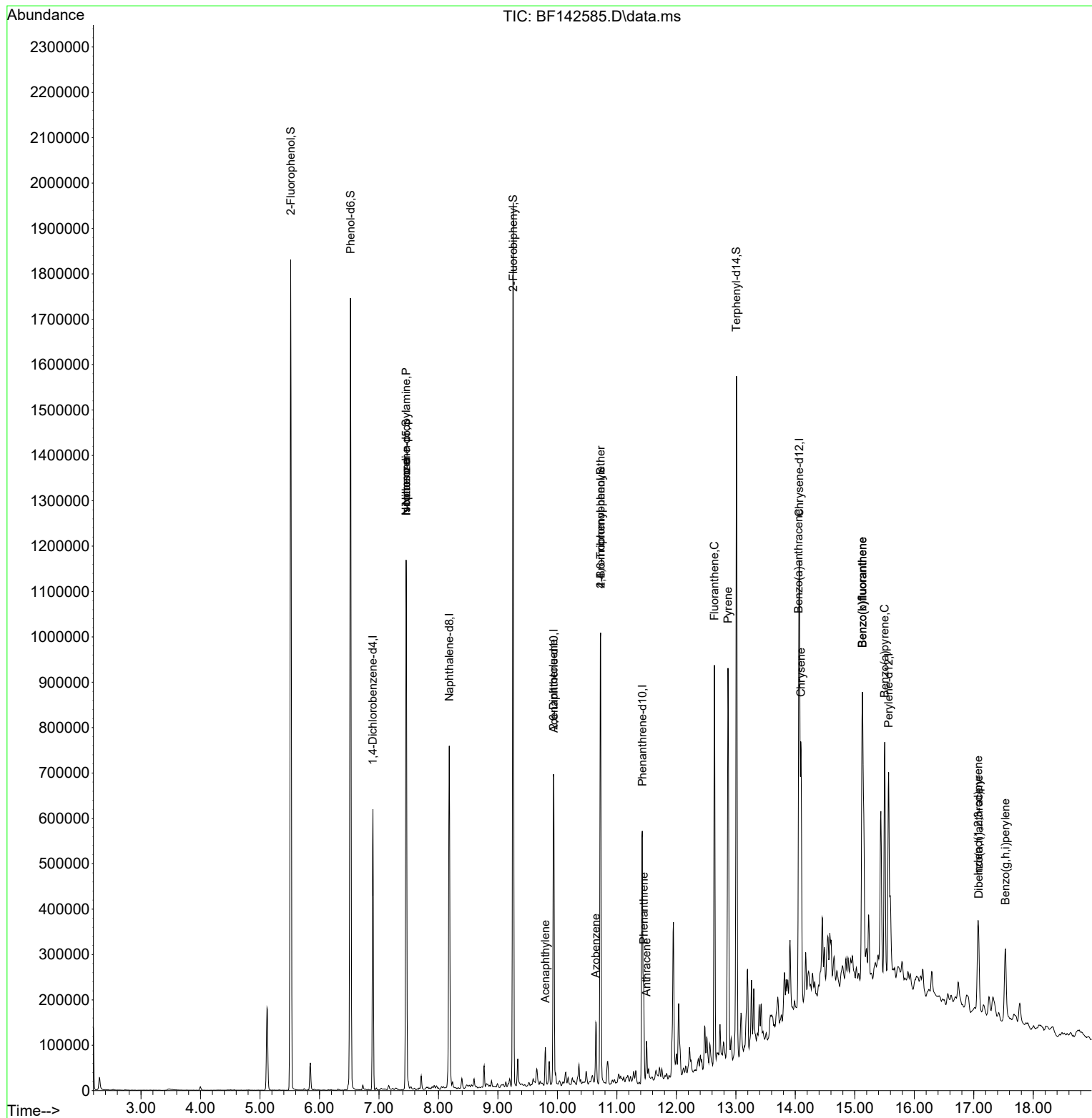
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.898  | 152  | 133645   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.181  | 136  | 476744   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.939  | 164  | 213806   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.427 | 188  | 298216   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.068 | 240  | 272466   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.568 | 264  | 264844   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 711745   | 89.724 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.522  | 99   | 854204   | 89.455 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.457  | 82   | 498554   | 57.023 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.727 | 330  | 178930   | 75.403 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.257  | 172  | 877026   | 55.043 | ng    | -0.01    |
| 79) Terphenyl-d14             | 13.010 | 244  | 725082   | 36.366 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.457  | 70   | 67112    | 11.340 | ng    | # 76     |
| 25) Isophorone                | 7.457  | 82   | 479942   | 32.833 | ng    | # 63     |
| 49) Acenaphthylene            | 9.798  | 152  | 49367    | 2.386  | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.933  | 165  | 28603    | 9.394  | ng    | # 28     |
| 63) Azobenzene                | 10.645 | 77   | 30873    | 2.495  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.727 | 248  | 11662    | 3.307  | ng    | # 1      |
| 71) Phenanthrene              | 11.451 | 178  | 112000   | 7.028  | ng    | 99       |
| 72) Anthracene                | 11.498 | 178  | 56976    | 3.503  | ng    | 99       |
| 75) Fluoranthene              | 12.639 | 202  | 497661   | 33.419 | ng    | 99       |
| 78) Pyrene                    | 12.868 | 202  | 507160   | 19.953 | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.057 | 228  | 350812   | 19.282 | ng    | 94       |
| 83) Chrysene                  | 14.092 | 228  | 326975   | 20.000 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.074 | 276  | 152667   | 7.678  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.127 | 252  | 588892   | 37.570 | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.127 | 252  | 588892   | 40.112 | ng    | # 95     |
| 90) Benzo(a)pyrene            | 15.504 | 252  | 317279   | 21.474 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.086 | 278  | 39006    | 2.419  | ng    | # 88     |
| 92) Benzo(g,h,i)perylene      | 17.533 | 276  | 147088   | 9.119  | ng    | 98       |
| -----                         |        |      |          |        |       |          |

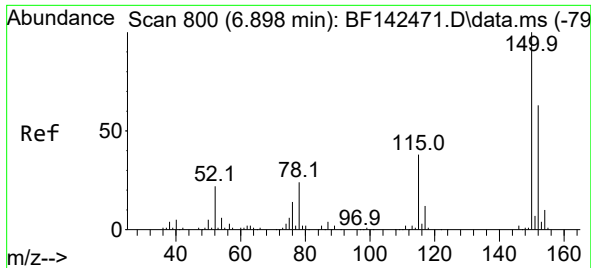
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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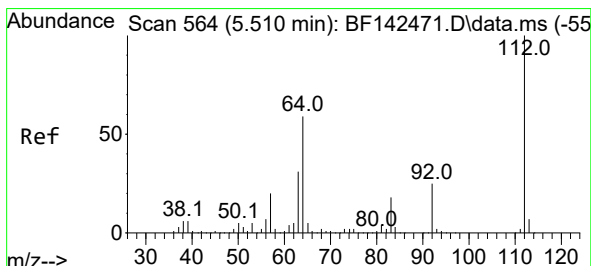
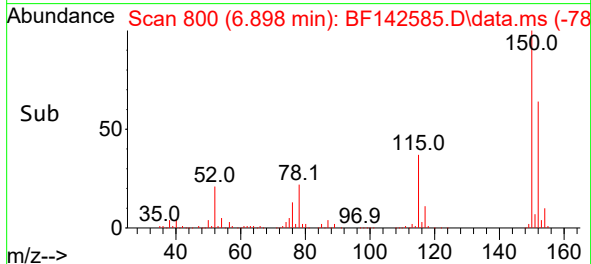
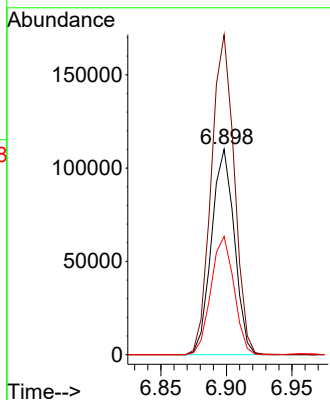
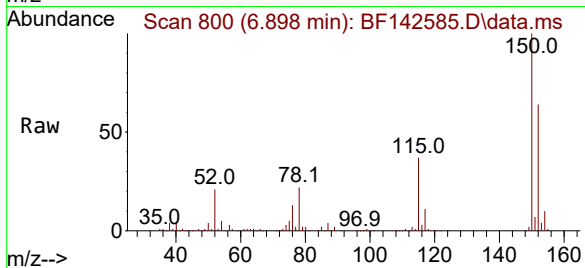




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.898 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

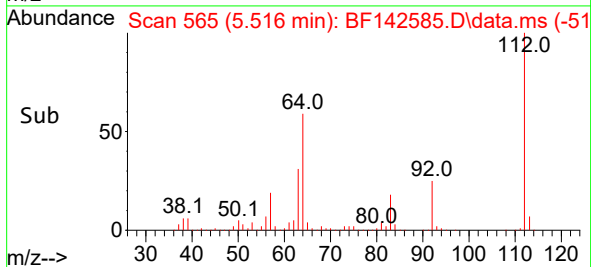
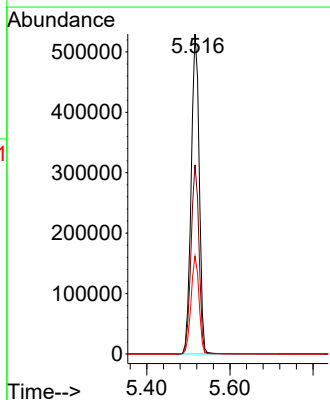
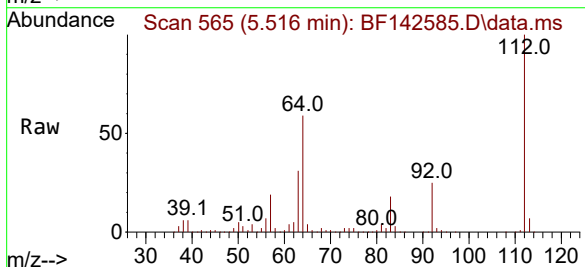
Instrument :  
BNA\_F  
ClientSampleId :  
TP-52

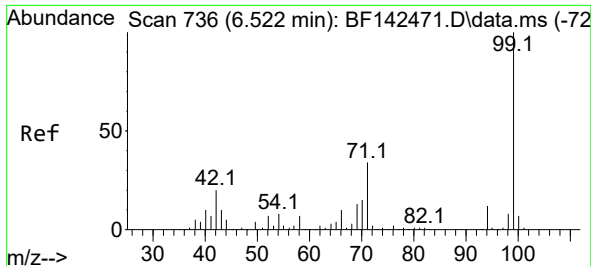
Tgt Ion:152 Resp: 133645  
Ion Ratio Lower Upper  
152 100  
150 155.7 128.2 192.4  
115 57.5 48.3 72.5



#5  
2-Fluorophenol  
Concen: 89.724 ng  
RT: 5.516 min Scan# 565  
Delta R.T. 0.000 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion:112 Resp: 711745  
Ion Ratio Lower Upper  
112 100  
64 59.1 47.5 71.3  
63 30.6 24.9 37.3

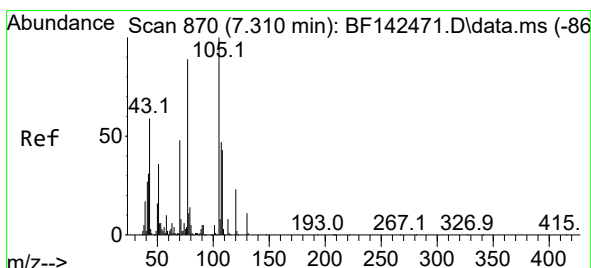
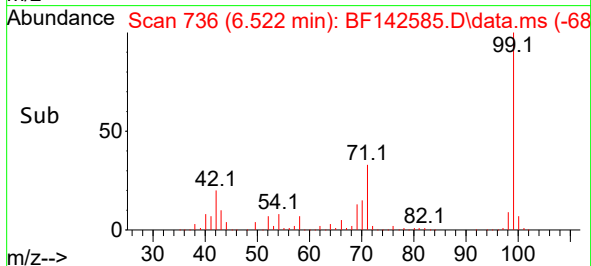
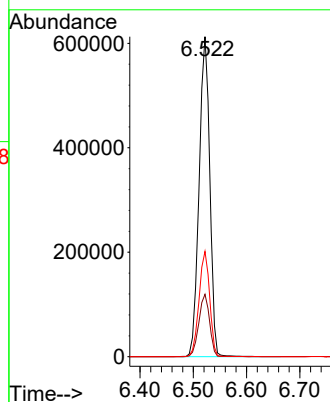
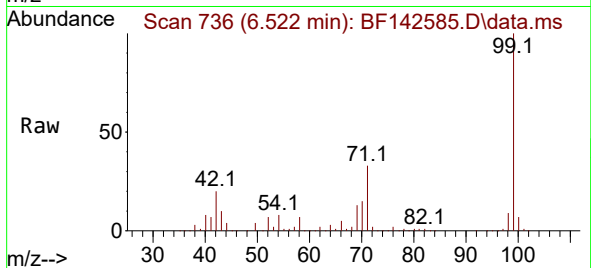




#7  
Phenol-d6  
Concen: 89.455 ng  
RT: 6.522 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

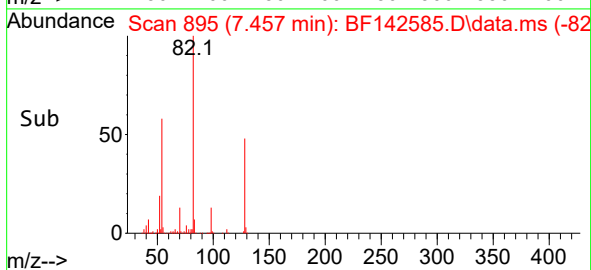
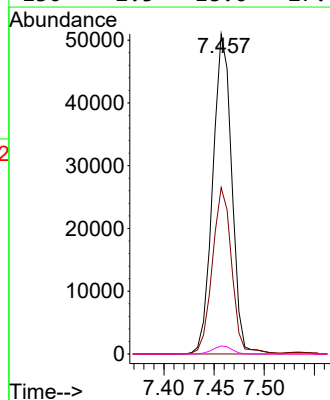
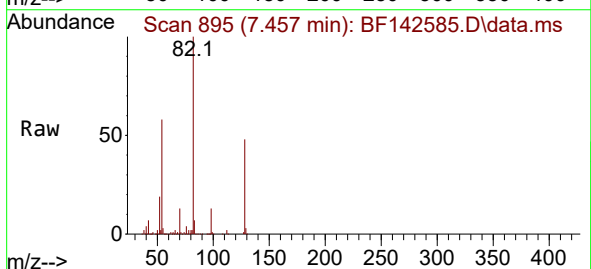
Instrument :  
BNA\_F  
ClientSampleId :  
TP-52

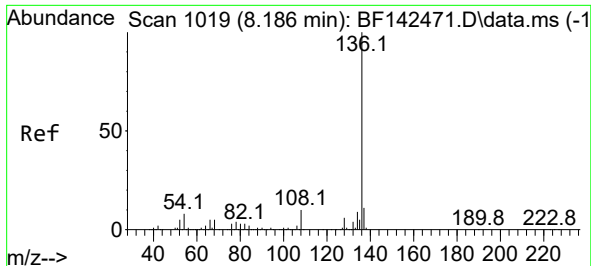
Tgt Ion: 99 Resp: 854204  
Ion Ratio Lower Upper  
99 100  
42 19.5 16.2 24.2  
71 32.9 27.3 40.9



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.340 ng  
RT: 7.457 min Scan# 895  
Delta R.T. 0.129 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion: 70 Resp: 67112  
Ion Ratio Lower Upper  
70 100  
42 52.0 52.4 78.6#  
101 0.0 7.8 11.8#  
130 2.5 18.0 27.0#



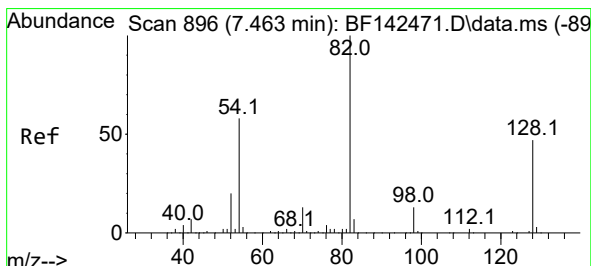
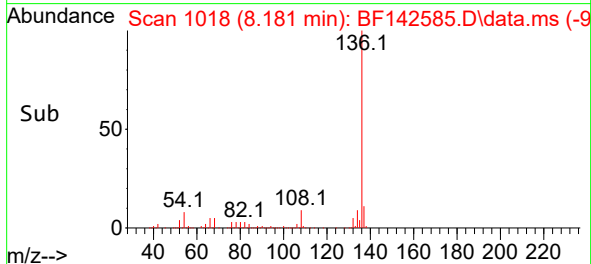
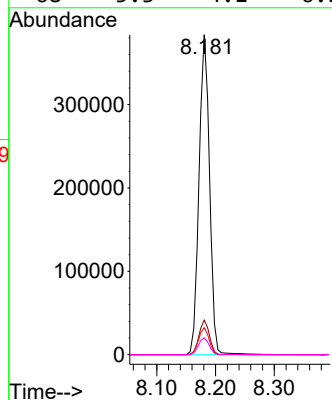
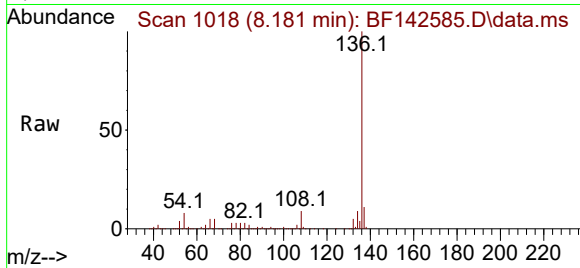


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.181 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Instrument :  
BNA\_F  
ClientSampleId :  
TP-52

Tgt Ion:136 Resp: 476744

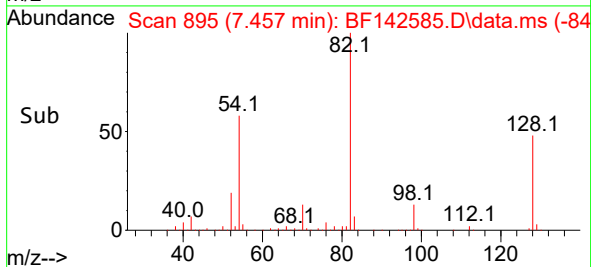
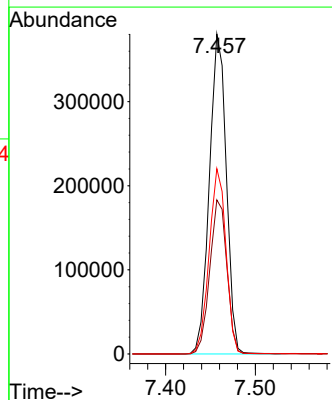
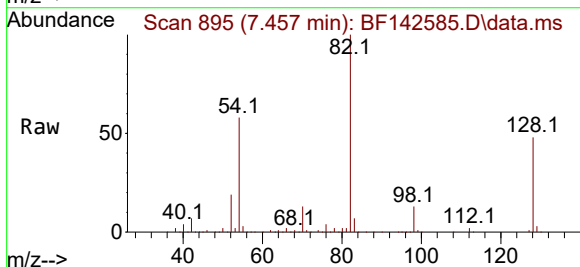
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.6   | 13.0  |
| 54  | 8.4   | 6.6   | 10.0  |
| 68  | 5.3   | 4.1   | 6.1   |

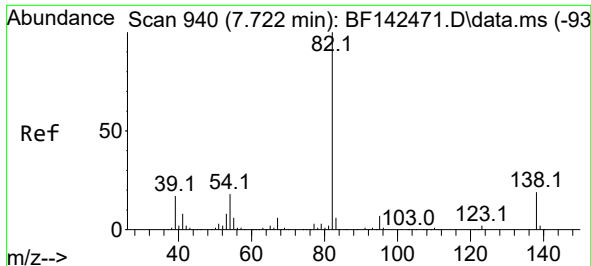


#23  
Nitrobenzene-d5  
Concen: 57.023 ng  
RT: 7.457 min Scan# 895  
Delta R.T. -0.018 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion: 82 Resp: 498554

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 48.2  | 37.4  | 56.2  |
| 54  | 57.9  | 46.6  | 70.0  |

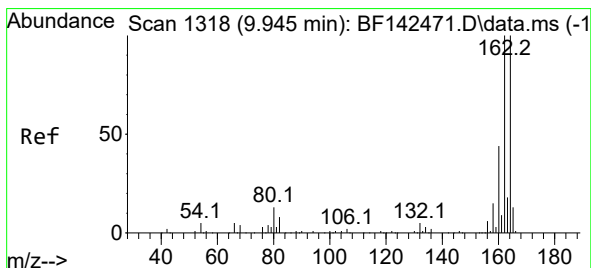
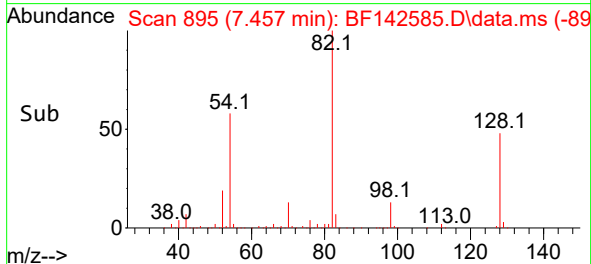
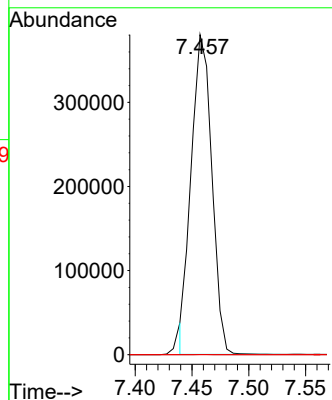
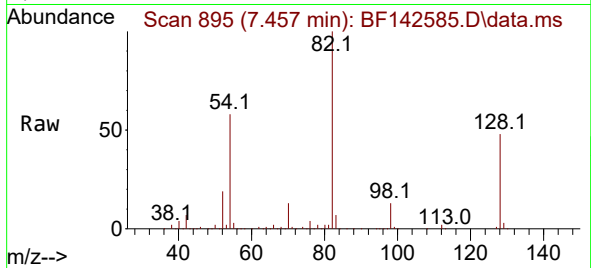




#25  
Isophorone  
Concen: 32.833 ng  
RT: 7.457 min Scan# 895  
Delta R.T. -0.276 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

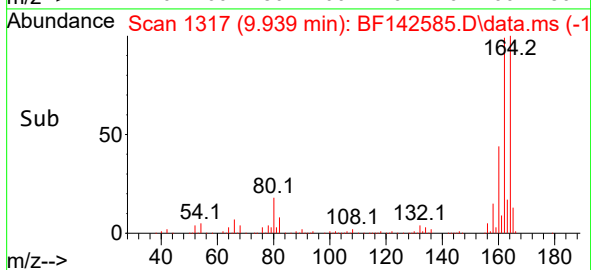
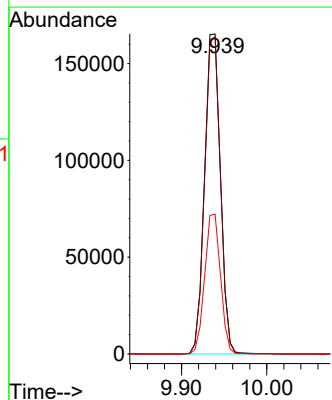
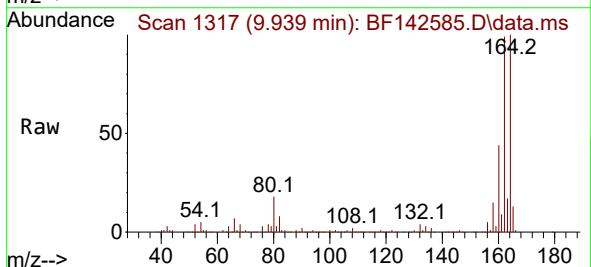
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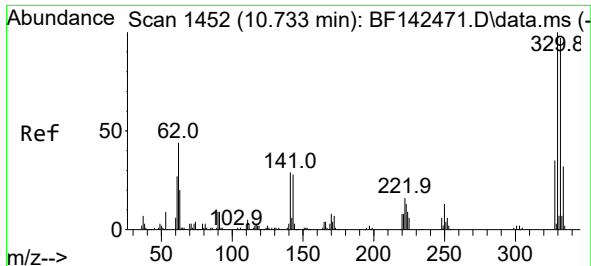
Tgt Ion: 82 Resp: 479942  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.0 9.0#  
138 0.0 15.5 23.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.939 min Scan# 1317  
Delta R.T. -0.006 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion: 164 Resp: 213806  
Ion Ratio Lower Upper  
164 100  
162 99.1 80.2 120.4  
160 43.7 35.6 53.4

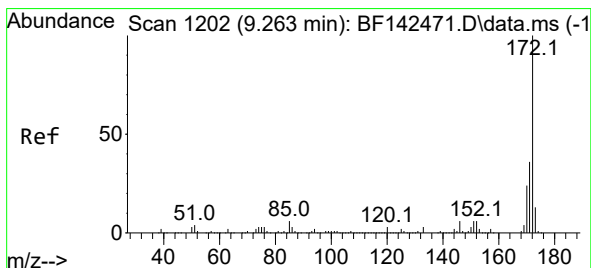
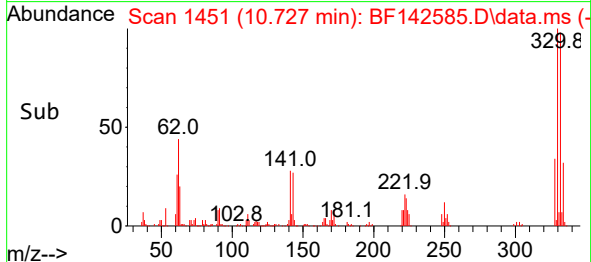
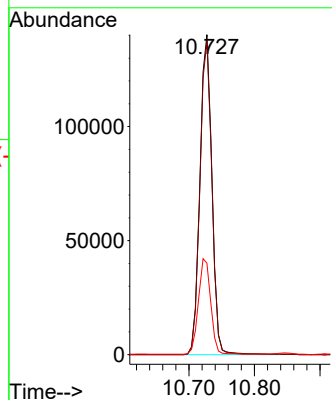
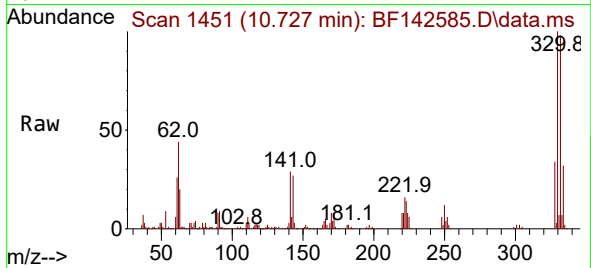




#42  
2,4,6-Tribromophenol  
Concen: 75.403 ng  
RT: 10.727 min Scan# 1451  
Delta R.T. -0.012 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

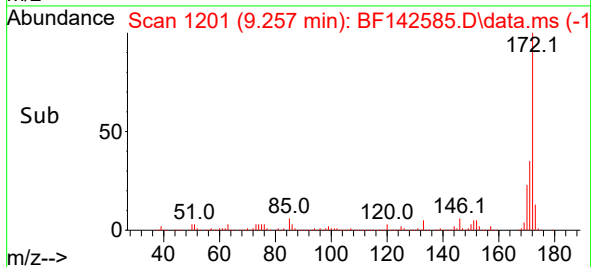
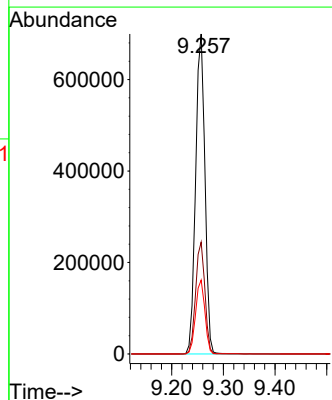
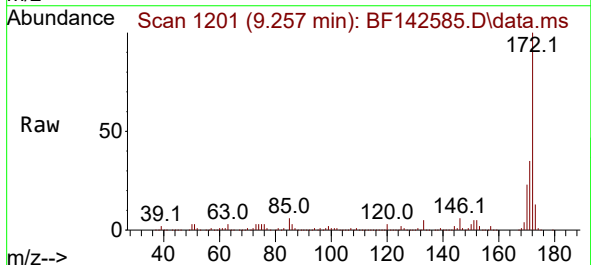
Instrument :  
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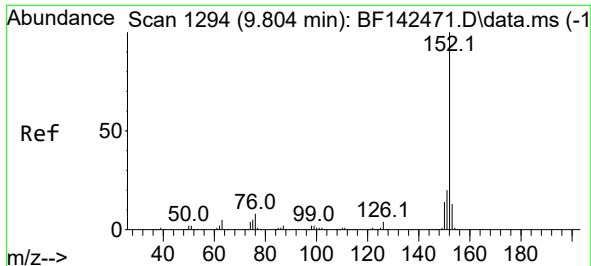
Tgt Ion:330 Resp: 178930  
Ion Ratio Lower Upper  
330 100  
332 97.3 77.6 116.4  
141 30.5 24.6 36.8



#45  
2-Fluorobiphenyl  
Concen: 55.043 ng  
RT: 9.257 min Scan# 1201  
Delta R.T. -0.012 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion:172 Resp: 877026  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.6 42.8  
170 23.1 18.9 28.3





#49

Acenaphthylene

Concen: 2.386 ng

RT: 9.798 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

Instrument :

BNA\_F

ClientSampleId :

TP-52

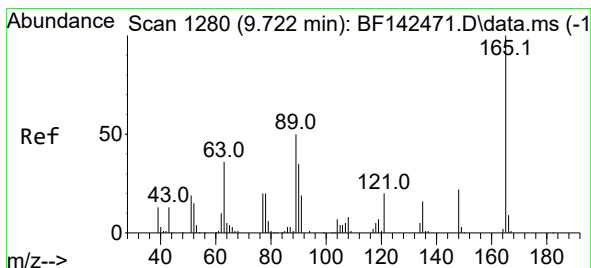
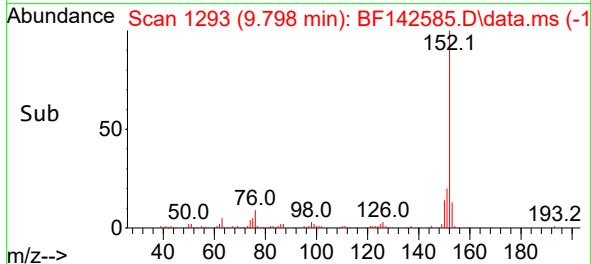
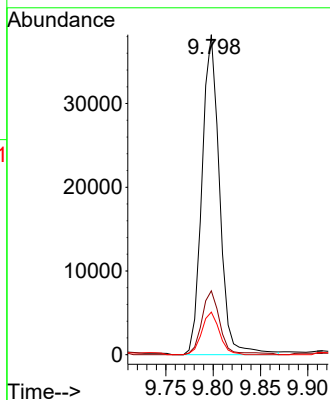
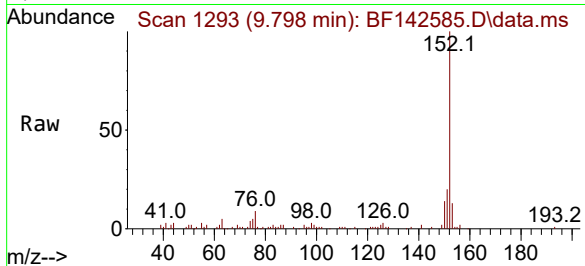
Tgt Ion:152 Resp: 49367

Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 13.3 10.6 15.8



#51

2,6-Dinitrotoluene

Concen: 9.394 ng

RT: 9.933 min Scan# 1316

Delta R.T. 0.206 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

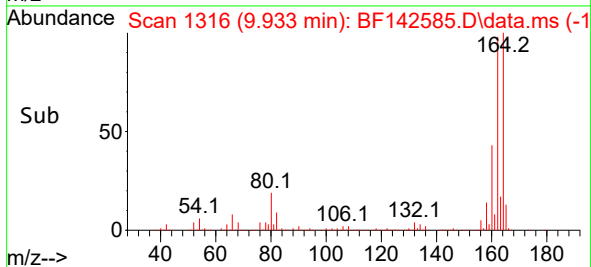
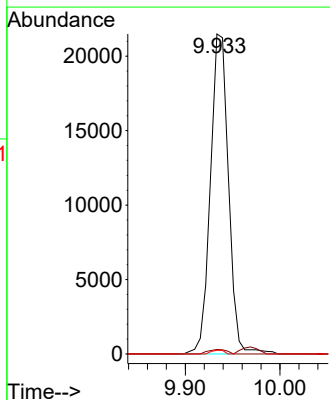
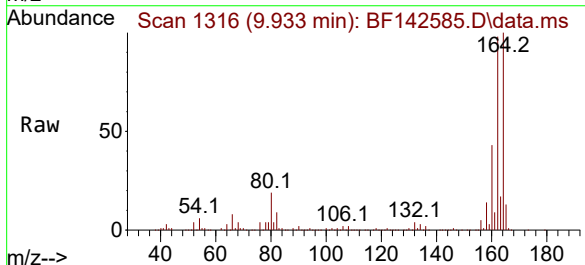
Tgt Ion:165 Resp: 28603

Ion Ratio Lower Upper

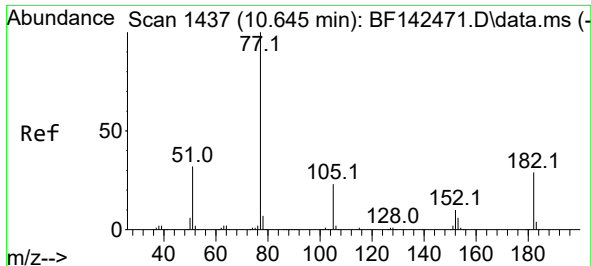
165 100

63 1.4 42.9 64.3#

89 1.2 40.2 60.4#



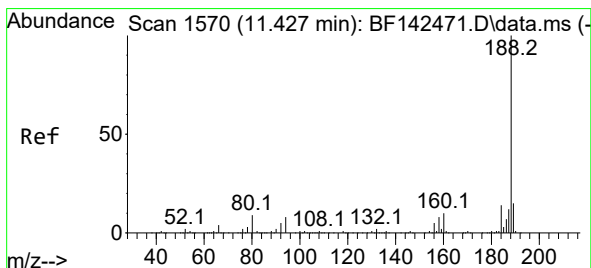
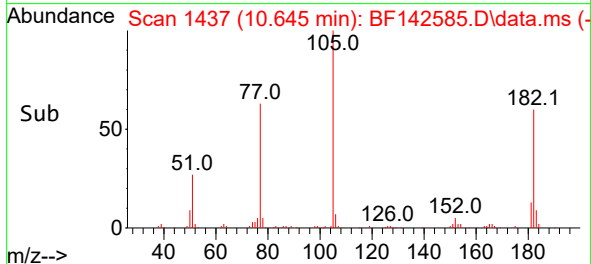
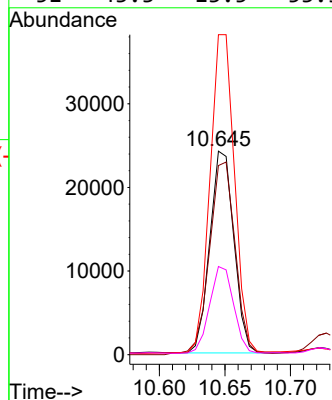
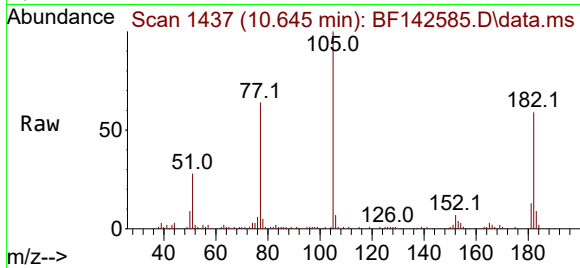




#63  
 Azobenzene  
 Concen: 2.495 ng  
 RT: 10.645 min Scan# 1437  
 Delta R.T. 0.000 min  
 Lab File: BF142585.D  
 Acq: 30 May 2025 22:41

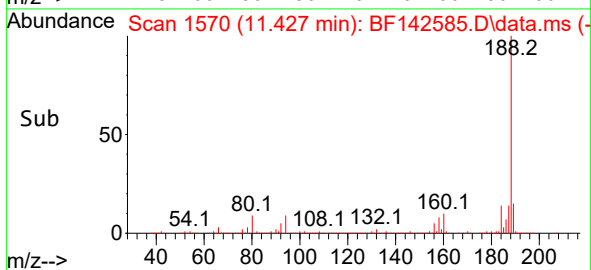
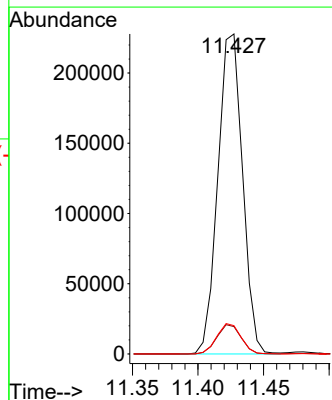
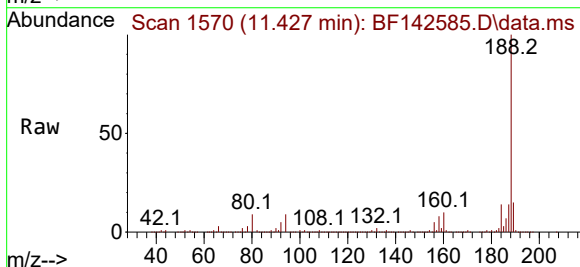
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-52

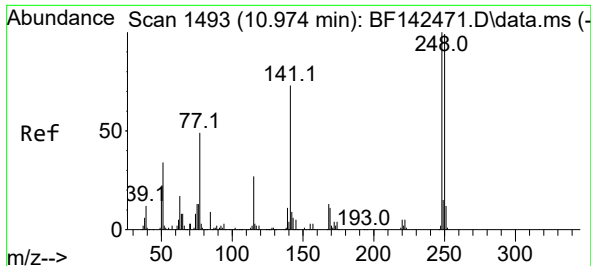
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 30873 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 182      | 92.9  | 9.0   | 49.0# |
| 105      | 157.2 | 2.4   | 42.4# |
| 51       | 43.3  | 13.5  | 53.5  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.427 min Scan# 1570  
 Delta R.T. -0.006 min  
 Lab File: BF142585.D  
 Acq: 30 May 2025 22:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 298216 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 8.6   | 6.6   | 10.0   |
| 80       | 8.9   | 7.4   | 11.0   |

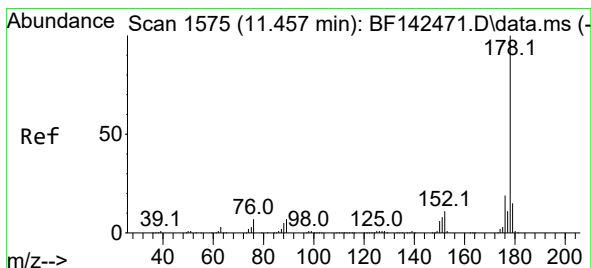
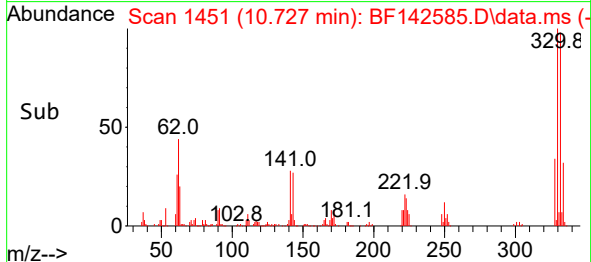
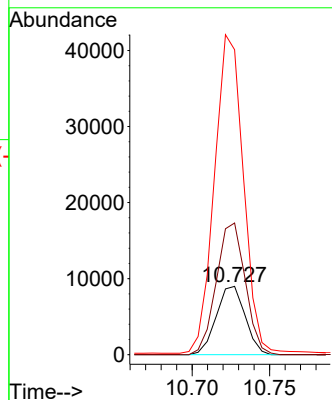
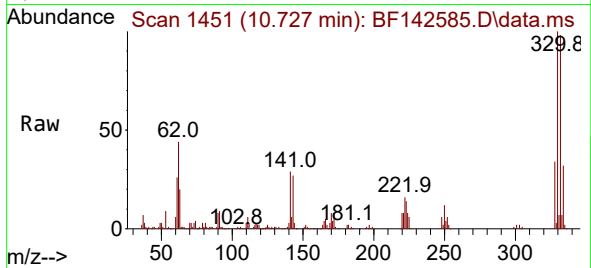




#67  
4-Bromophenyl-phenylether  
Concen: 3.307 ng  
RT: 10.727 min Scan# 1493  
Delta R.T. -0.247 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

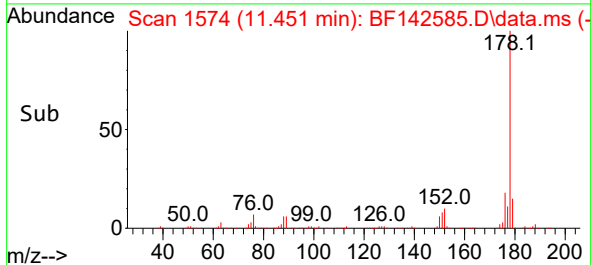
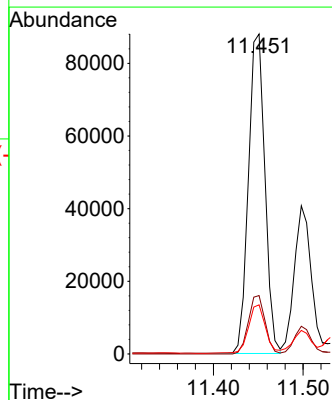
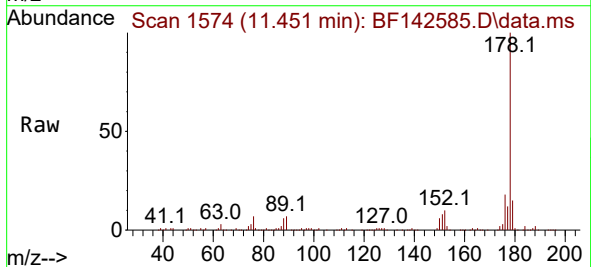
Instrument :  
BNA\_F  
ClientSampleId :  
TP-52

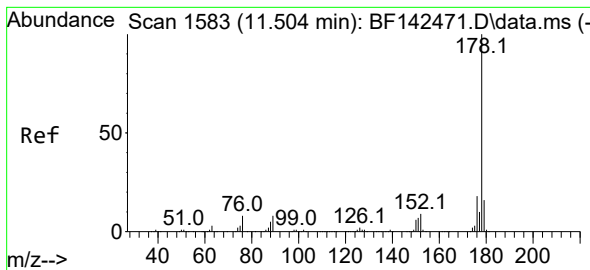
Tgt Ion:248 Resp: 11662  
Ion Ratio Lower Upper  
248 100  
250 192.7 79.0 118.4#  
141 446.5 58.4 87.6#



#71  
Phenanthrene  
Concen: 7.028 ng  
RT: 11.451 min Scan# 1574  
Delta R.T. -0.006 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion:178 Resp: 112000  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.4 23.0  
179 15.4 12.3 18.5





#72

Anthracene

Concen: 3.503 ng

RT: 11.498 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

Instrument :

BNA\_F

ClientSampleId :

TP-52

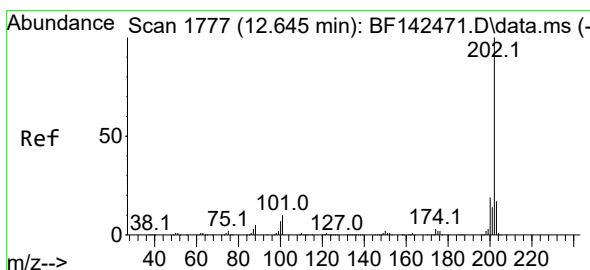
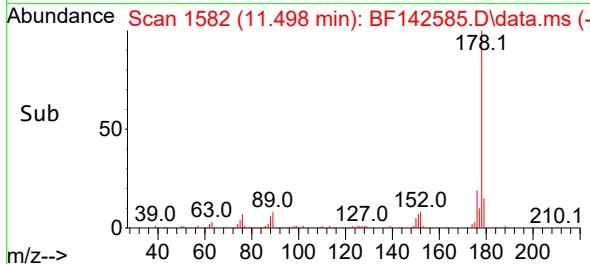
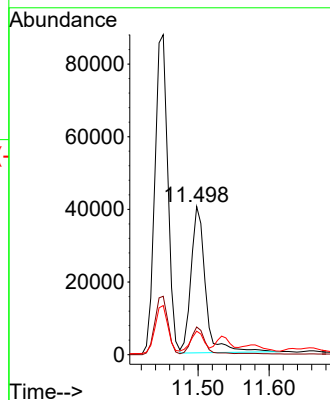
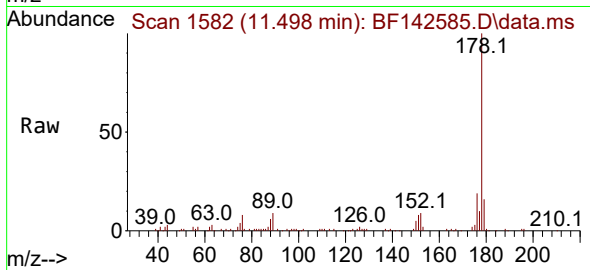
Tgt Ion:178 Resp: 56976

Ion Ratio Lower Upper

178 100

176 18.7 14.6 21.8

179 15.9 12.4 18.6



#75

Fluoranthene

Concen: 33.419 ng

RT: 12.639 min Scan# 1776

Delta R.T. -0.006 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

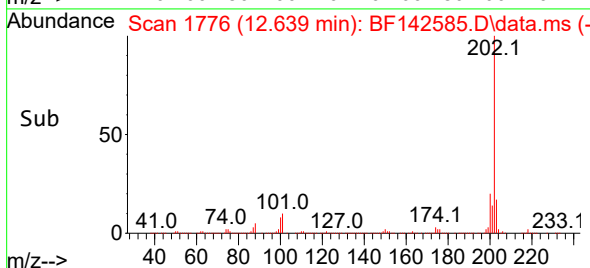
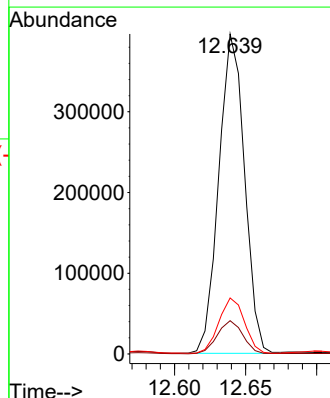
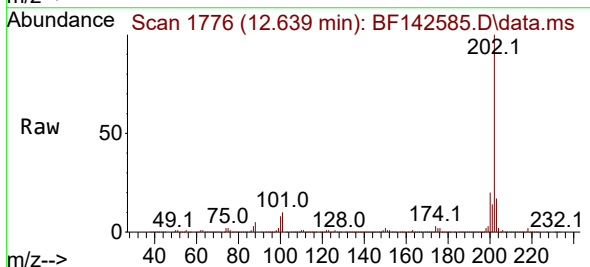
Tgt Ion:202 Resp: 497661

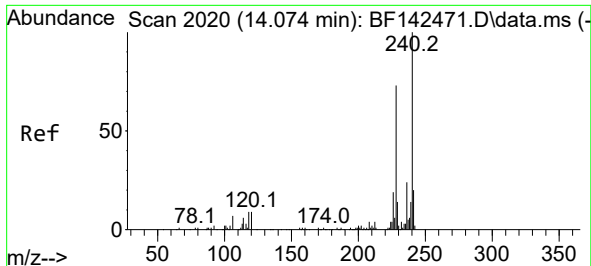
Ion Ratio Lower Upper

202 100

101 10.4 0.0 29.6

203 17.5 0.0 37.2

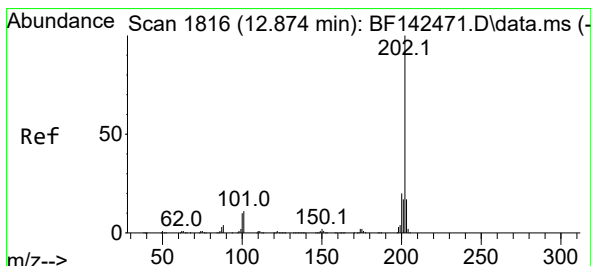
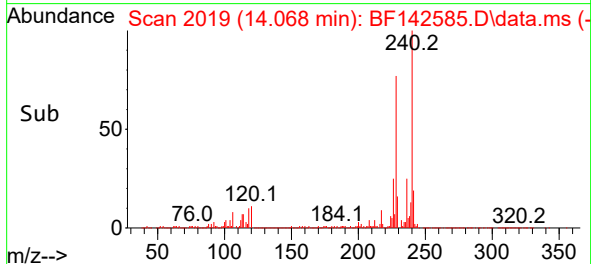
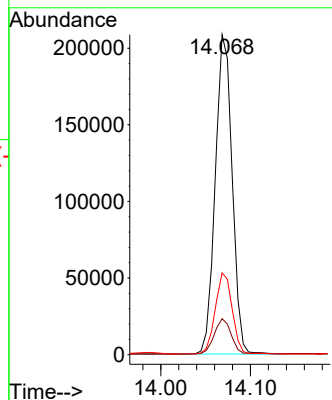
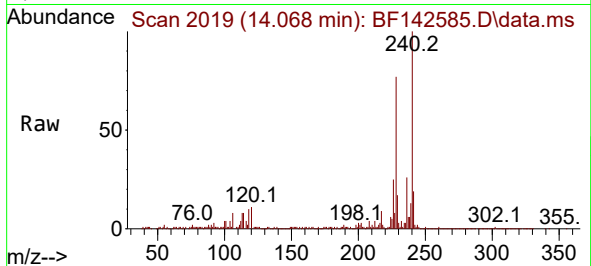




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.068 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

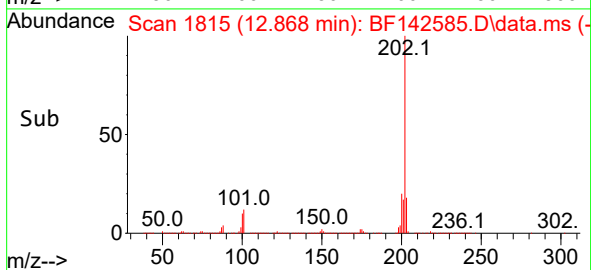
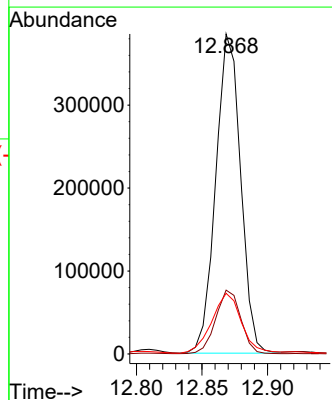
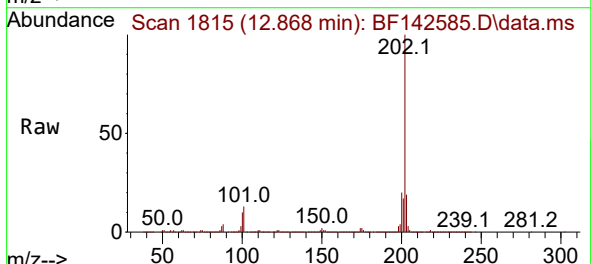
Instrument :  
BNA\_F  
ClientSampleId :  
TP-52

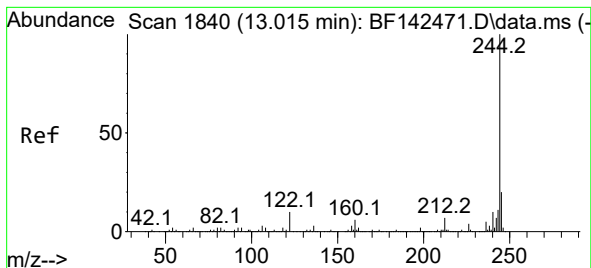
Tgt Ion:240 Resp: 272466  
Ion Ratio Lower Upper  
240 100  
120 11.3 7.5 11.3  
236 25.6 19.6 29.4



#78  
Pyrene  
Concen: 19.953 ng  
RT: 12.868 min Scan# 1815  
Delta R.T. -0.006 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion:202 Resp: 507160  
Ion Ratio Lower Upper  
202 100  
200 20.0 16.1 24.1  
203 18.9 13.9 20.9





#79

Terphenyl-d14

Concen: 36.366 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

Instrument :

BNA\_F

ClientSampleId :

TP-52

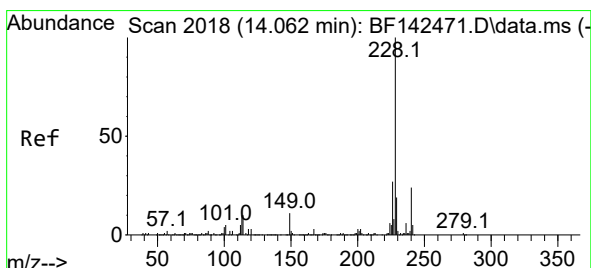
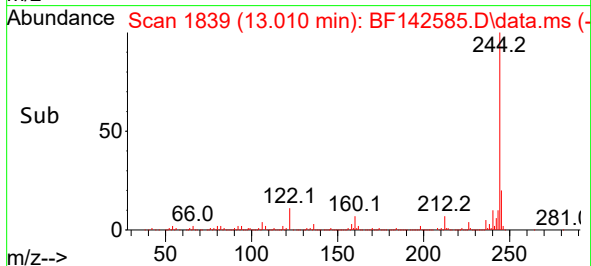
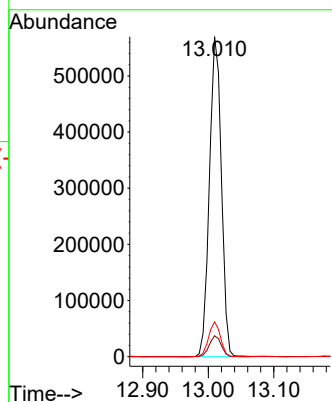
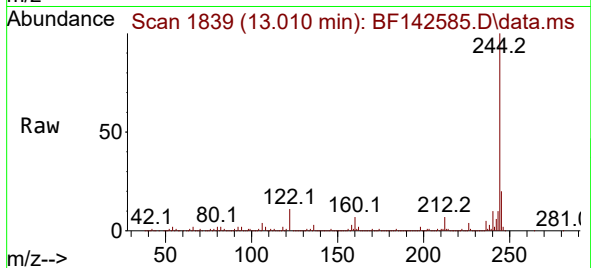
Tgt Ion:244 Resp: 725082

Ion Ratio Lower Upper

244 100

212 6.6 5.3 7.9

122 10.9 8.2 12.2



#81

Benzo(a)anthracene

Concen: 19.282 ng

RT: 14.057 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

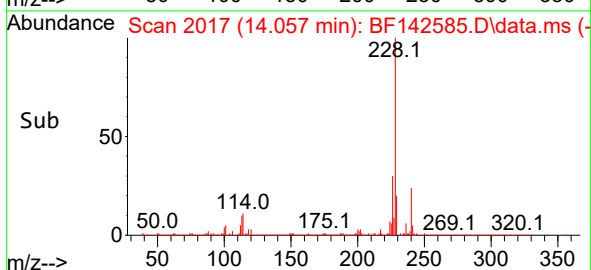
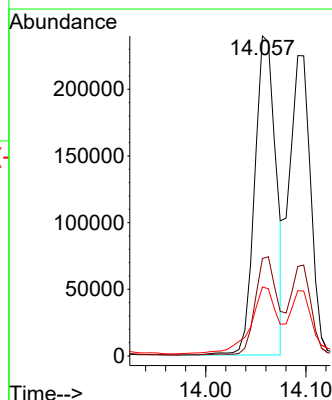
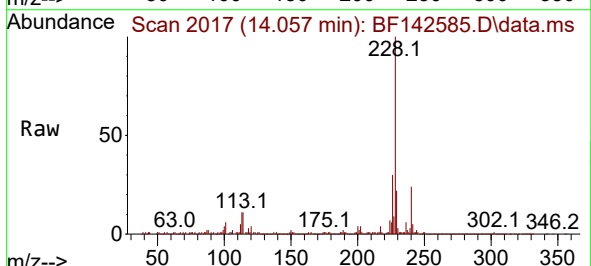
Tgt Ion:228 Resp: 350812

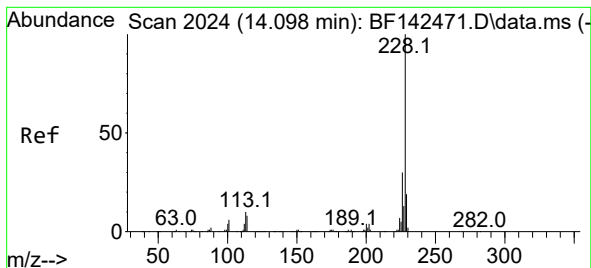
Ion Ratio Lower Upper

228 100

226 30.4 21.2 31.8

229 21.5 15.5 23.3





#83

Chrysene

Concen: 20.000 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

Instrument :

BNA\_F

ClientSampleId :

TP-52

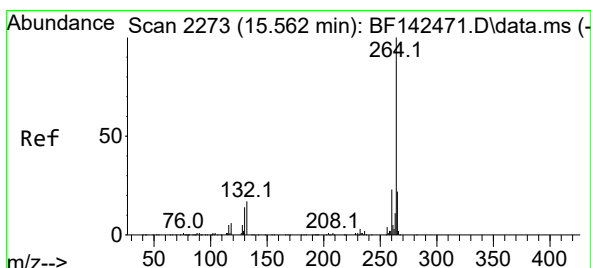
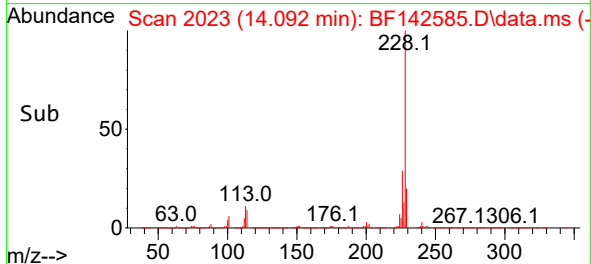
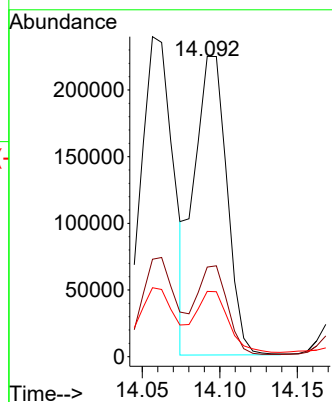
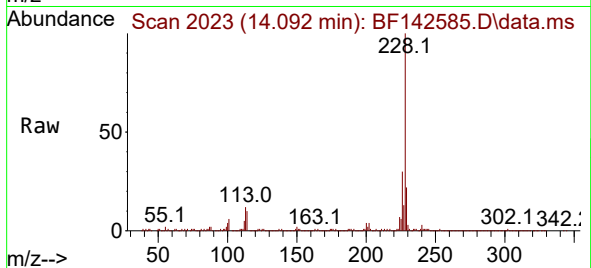
Tgt Ion:228 Resp: 326975

Ion Ratio Lower Upper

228 100

226 29.9 23.8 35.6

229 21.7 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.568 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

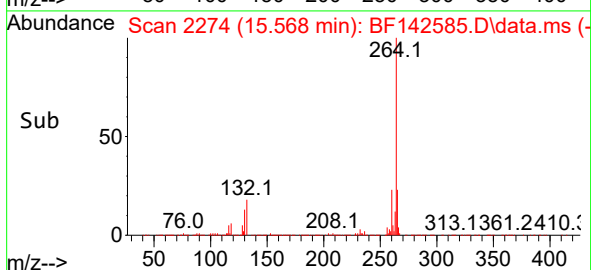
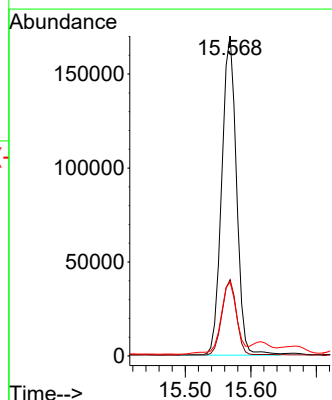
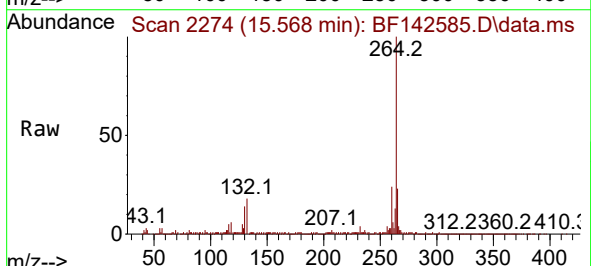
Tgt Ion:264 Resp: 264844

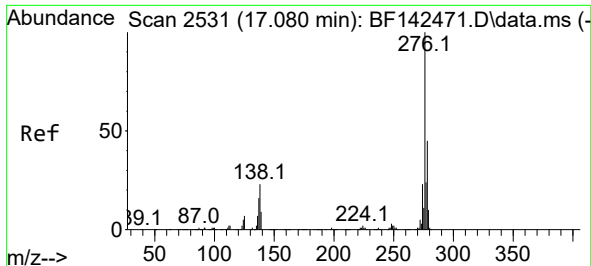
Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 23.1 17.7 26.5

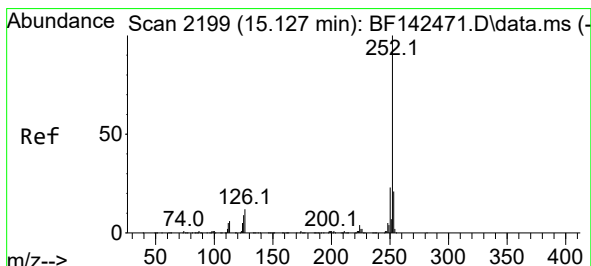
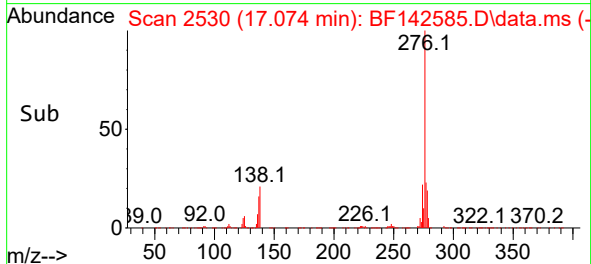
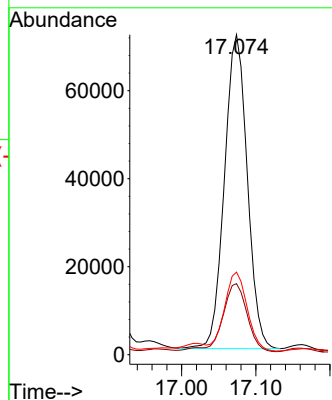
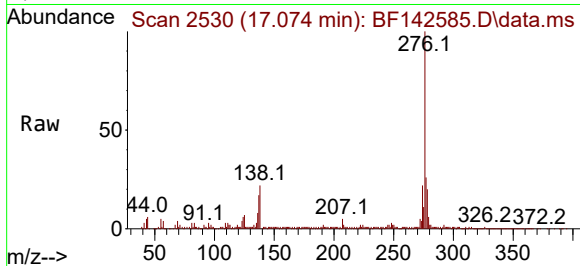




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 7.678 ng  
 RT: 17.074 min Scan# 2199  
 Delta R.T. -0.018 min  
 Lab File: BF142585.D  
 Acq: 30 May 2025 22:41

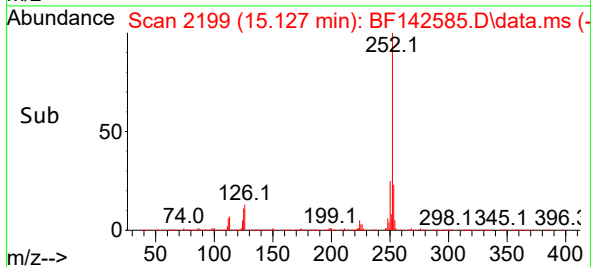
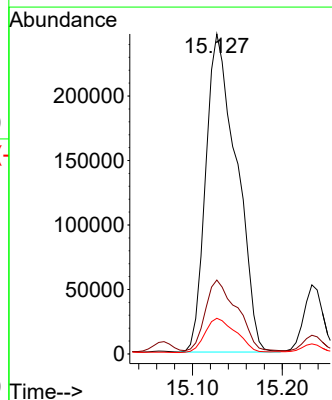
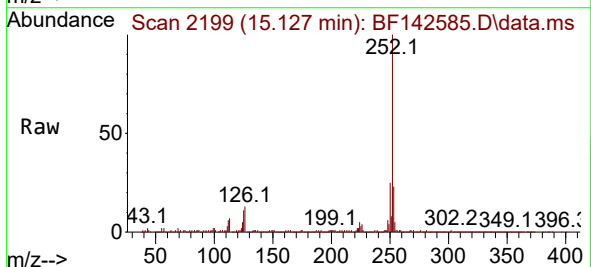
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-52

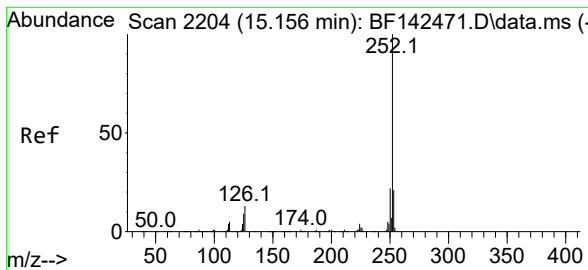
Tgt Ion:276 Resp: 152667  
 Ion Ratio Lower Upper  
 276 100  
 138 23.6 19.9 29.9  
 277 25.0 20.2 30.2



#88  
 Benzo(b)fluoranthene  
 Concen: 37.570 ng  
 RT: 15.127 min Scan# 2199  
 Delta R.T. 0.000 min  
 Lab File: BF142585.D  
 Acq: 30 May 2025 22:41

Tgt Ion:252 Resp: 588892  
 Ion Ratio Lower Upper  
 252 100  
 253 23.1 17.0 25.4  
 125 11.2 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 40.112 ng

RT: 15.127 min Scan# 2199

Delta R.T. -0.035 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

Instrument :

BNA\_F

ClientSampleId :

TP-52

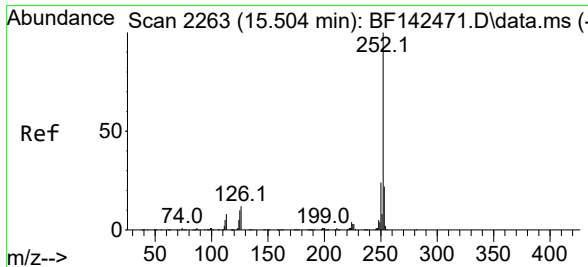
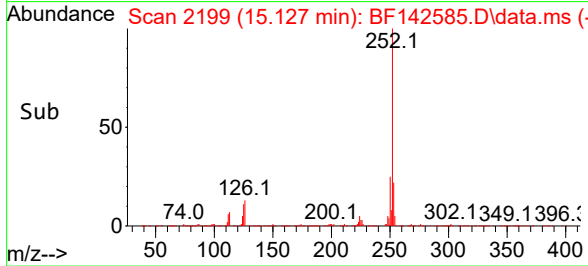
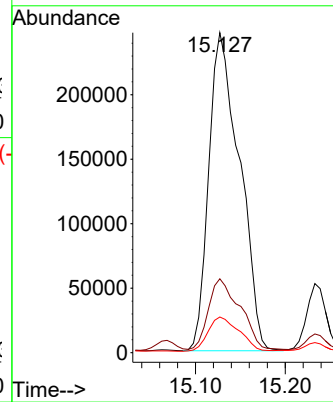
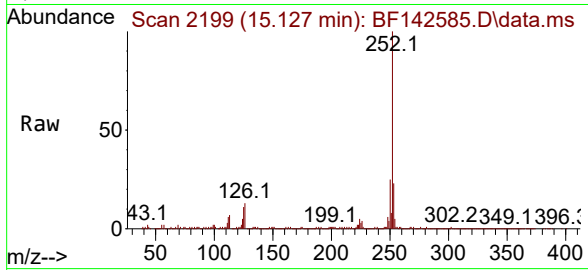
Tgt Ion:252 Resp: 588892

Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.4

125 11.2 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 21.474 ng

RT: 15.504 min Scan# 2263

Delta R.T. -0.006 min

Lab File: BF142585.D

Acq: 30 May 2025 22:41

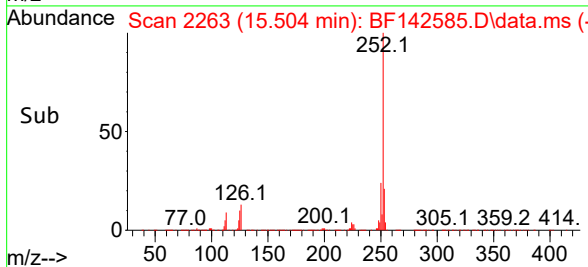
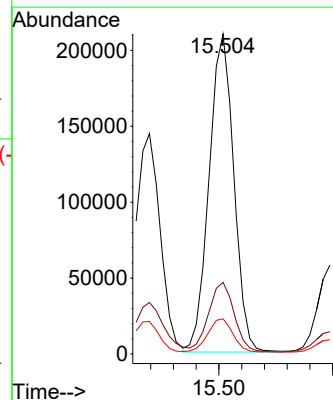
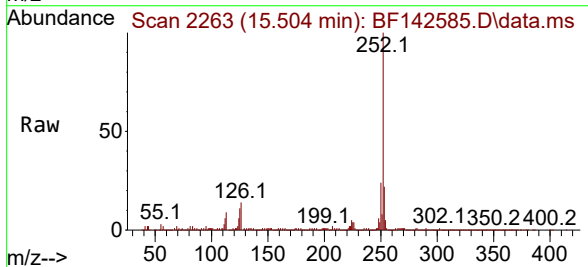
Tgt Ion:252 Resp: 317279

Ion Ratio Lower Upper

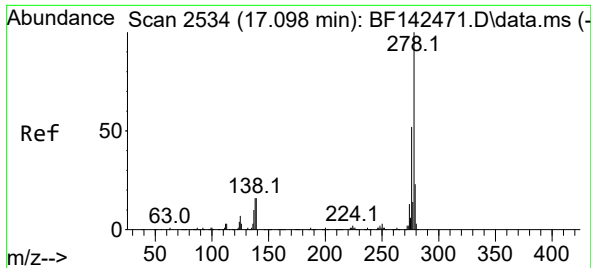
252 100

253 22.4 17.4 26.0

125 11.0 7.9 11.9



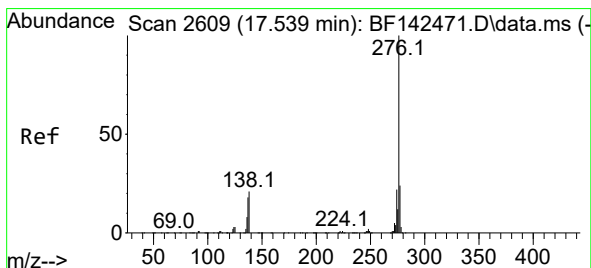
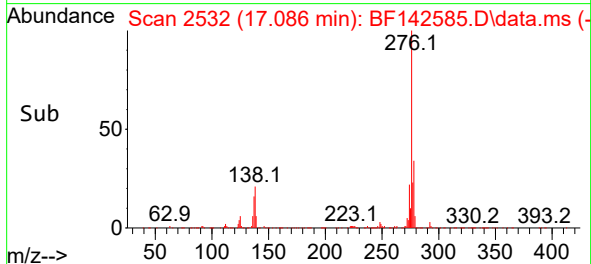
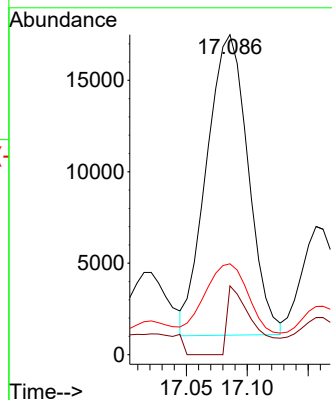
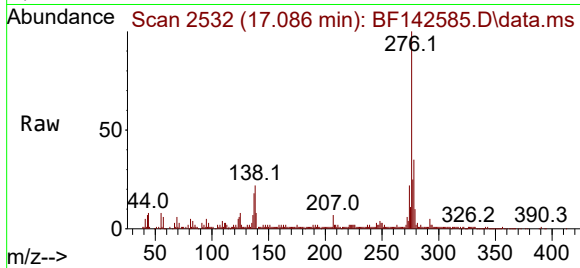




#91  
Dibenzo(a,h)anthracene  
Concen: 2.419 ng  
RT: 17.086 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Instrument :  
BNA\_F  
ClientSampleId :  
TP-52

Tgt Ion:278 Resp: 39006  
Ion Ratio Lower Upper  
278 100  
139 21.5 12.8 19.2#  
279 28.4 18.6 28.0#



#92  
Benzo(g,h,i)perylene  
Concen: 9.119 ng  
RT: 17.533 min Scan# 2608  
Delta R.T. -0.023 min  
Lab File: BF142585.D  
Acq: 30 May 2025 22:41

Tgt Ion:276 Resp: 147088  
Ion Ratio Lower Upper  
276 100  
277 23.1 19.2 28.8  
138 22.4 16.8 25.2

