

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072225\  
 Data File : BF143207.D  
 Acq On : 23 Jul 2025 00:12  
 Operator : RC/JU  
 Sample : Q2649-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1

Quant Time: Jul 23 04:56:20 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF071725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 17 15:14:05 2025  
 Response via : Initial Calibration

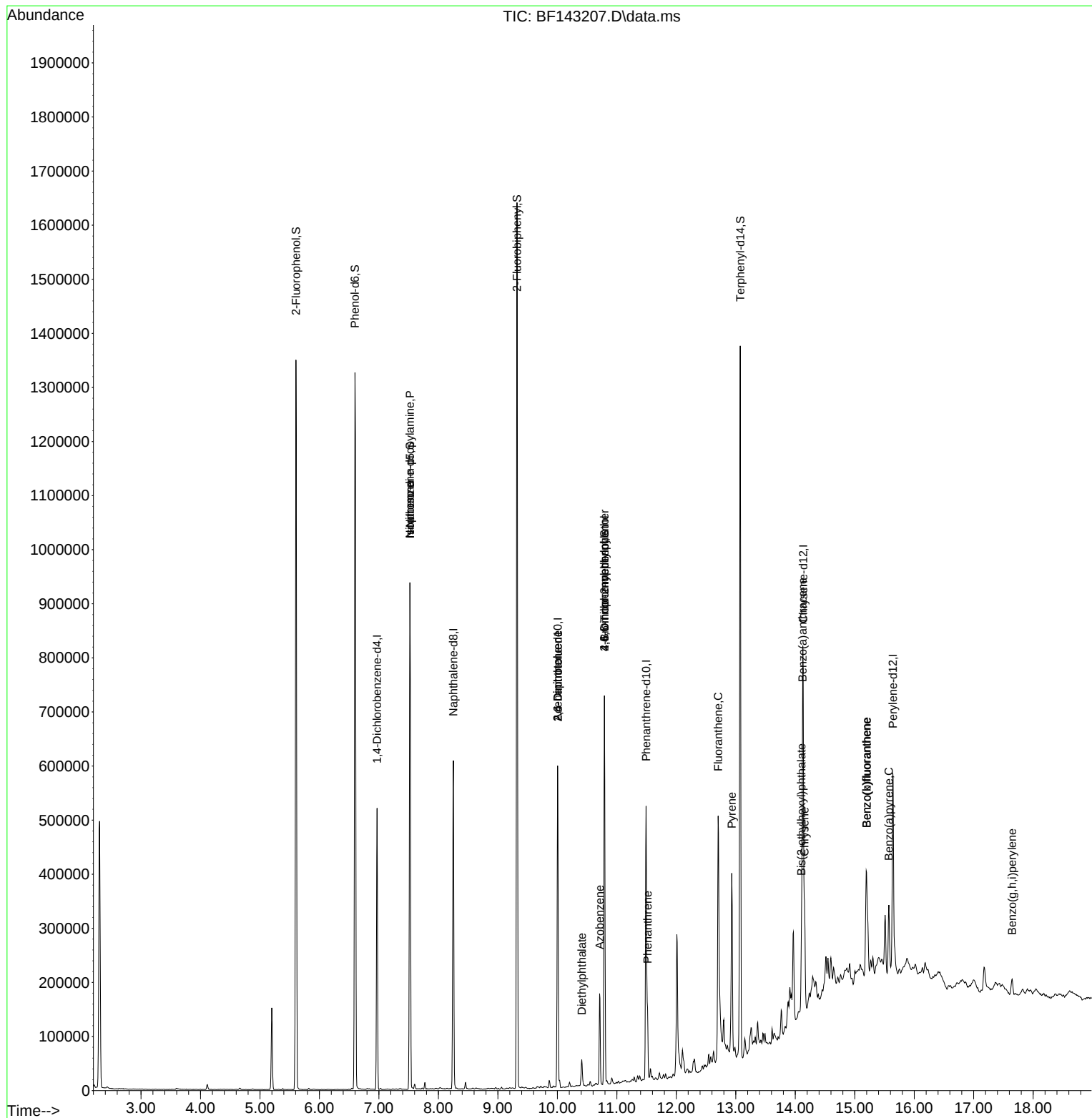
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.969  | 152  | 104255   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.251  | 136  | 368801   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 10.004 | 164  | 168655   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.492 | 188  | 251570   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.133 | 240  | 264481   | 20.000 | ng    | 0.01     |
| 86) Perylene-d12              | 15.639 | 264  | 225264   | 20.000 | ng    | 0.02     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.604  | 112  | 470982   | 71.489 | ng    | 0.02     |
| 7) Phenol-d6                  | 6.598  | 99   | 587597   | 70.860 | ng    | 0.01     |
| 23) Nitrobenzene-d5           | 7.522  | 82   | 381721   | 51.593 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.792 | 330  | 114354   | 65.634 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.322  | 172  | 689800   | 55.936 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.074 | 244  | 606267   | 34.112 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.522  | 70   | 51568    | 9.693  | ng    | # 80     |
| 25) Isophorone                | 7.522  | 82   | 378414   | 28.973 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 10.004 | 165  | 21499    | 9.613  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene        | 10.004 | 165  | 21499    | 7.662  | ng    | # 21     |
| 60) Diethylphthalate          | 10.410 | 149  | 29478    | 2.713  | ng    | 100      |
| 63) Azobenzene                | 10.710 | 77   | 42927    | 3.791  | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 10.792 | 198  | 64       | 5.455  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.792 | 248  | 7511     | 2.505  | ng    | # 1      |
| 71) Phenanthrene              | 11.516 | 178  | 66095    | 4.948  | ng    | 98       |
| 75) Fluoranthene              | 12.704 | 202  | 191913   | 15.653 | ng    | 99       |
| 78) Pyrene                    | 12.933 | 202  | 188410   | 8.347  | ng    | 100      |
| 81) Benzo(a)anthracene        | 14.121 | 228  | 113210   | 6.393  | ng    | 97       |
| 83) Chrysene                  | 14.157 | 228  | 104672   | 6.575  | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 14.104 | 149  | 51639    | 4.936  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.198 | 252  | 179229   | 13.024 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.198 | 252  | 179229   | 14.595 | ng    | 98       |
| 90) Benzo(a)pyrene            | 15.574 | 252  | 78232    | 6.170  | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 17.645 | 276  | 31734    | 2.537  | ng    | 99       |
| -----                         |        |      |          |        |       |          |

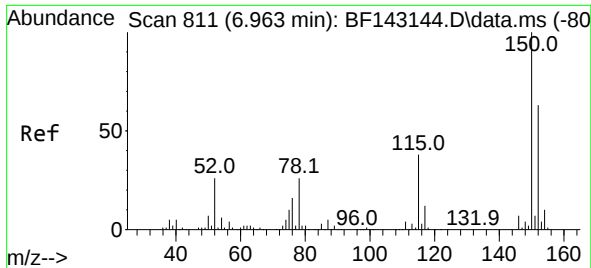
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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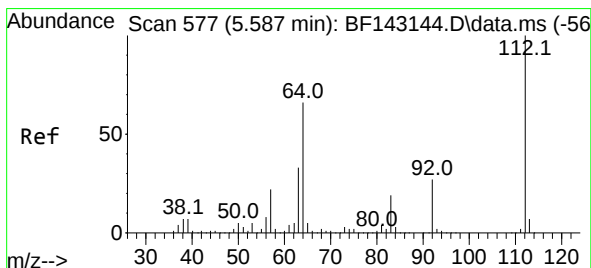
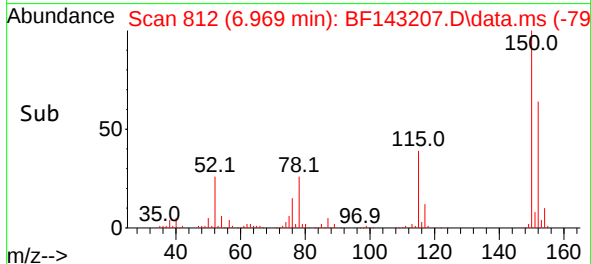
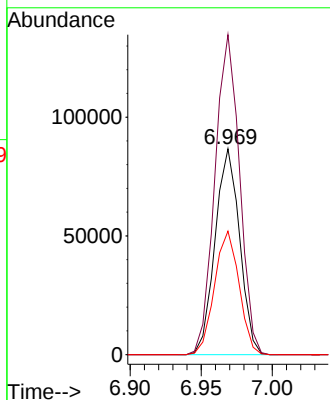
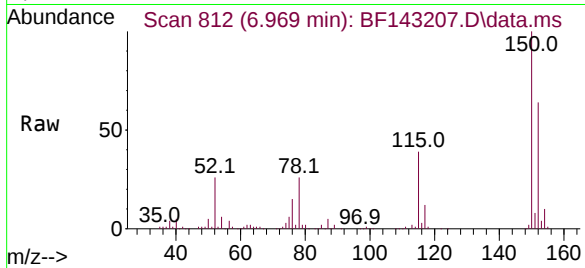




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.969 min Scan# 811  
 Delta R.T. 0.006 min  
 Lab File: BF143207.D  
 Acq: 23 Jul 2025 00:12

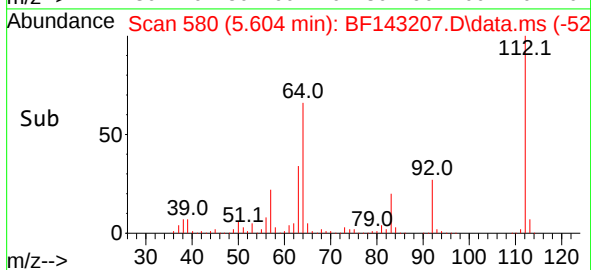
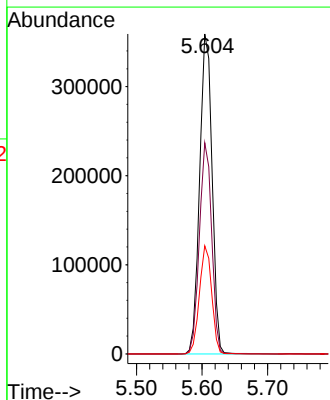
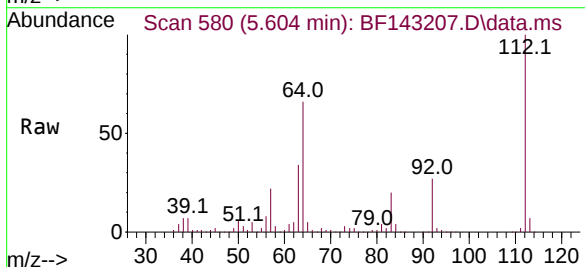
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1

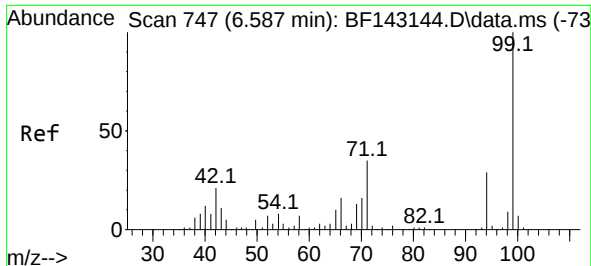
Tgt Ion:152 Resp: 104255  
 Ion Ratio Lower Upper  
 152 100  
 150 155.5 128.2 192.4  
 115 60.0 47.9 71.9



#5  
 2-Fluorophenol  
 Concen: 71.489 ng  
 RT: 5.604 min Scan# 580  
 Delta R.T. 0.018 min  
 Lab File: BF143207.D  
 Acq: 23 Jul 2025 00:12

Tgt Ion:112 Resp: 470982  
 Ion Ratio Lower Upper  
 112 100  
 64 66.0 53.1 79.7  
 63 33.8 26.6 40.0

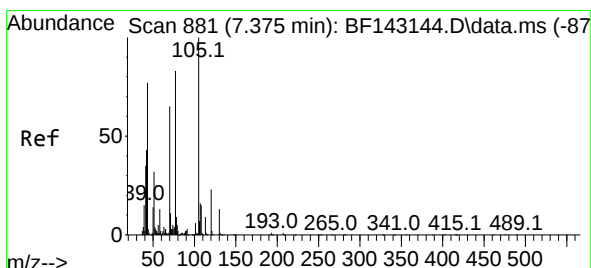
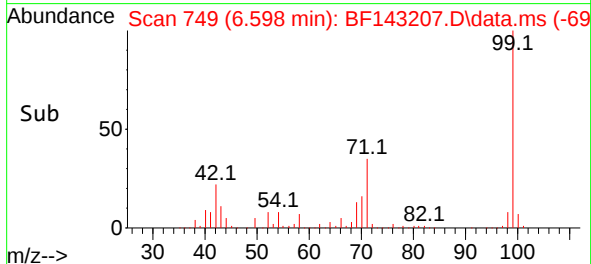
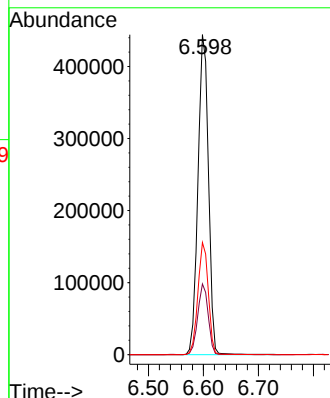
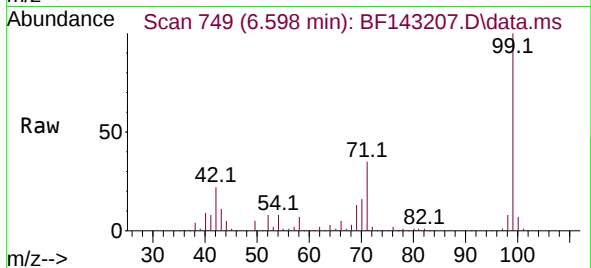




#7  
Phenol-d6  
Concen: 70.860 ng  
RT: 6.598 min Scan# 74  
Delta R.T. 0.012 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

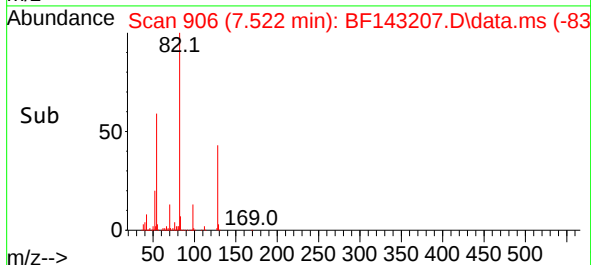
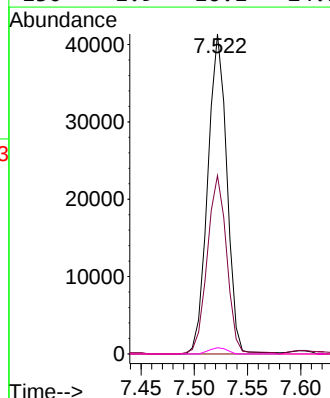
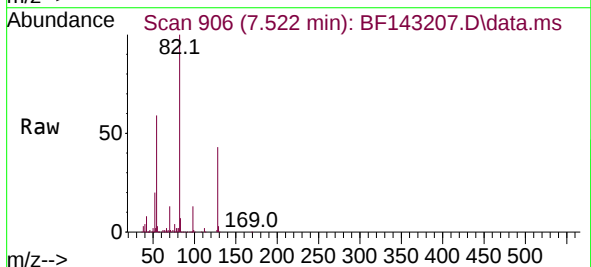
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1

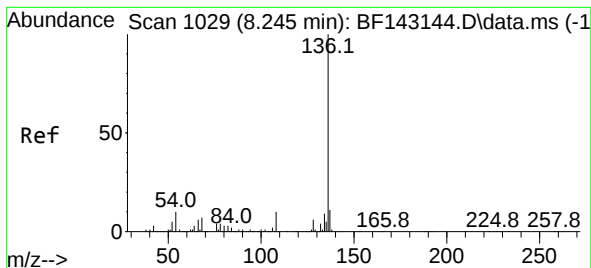
Tgt Ion: 99 Resp: 587597  
Ion Ratio Lower Upper  
99 100  
42 22.1 17.0 25.6  
71 35.1 27.7 41.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 9.693 ng  
RT: 7.522 min Scan# 906  
Delta R.T. 0.147 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion: 70 Resp: 51568  
Ion Ratio Lower Upper  
70 100  
42 55.7 52.5 78.7  
101 0.0 7.6 11.4#  
130 1.9 16.1 24.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.251 min Scan# 1029

Delta R.T. 0.006 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

Instrument :

BNA\_F

ClientSampleId :

WC-1

Tgt Ion:136 Resp: 368801

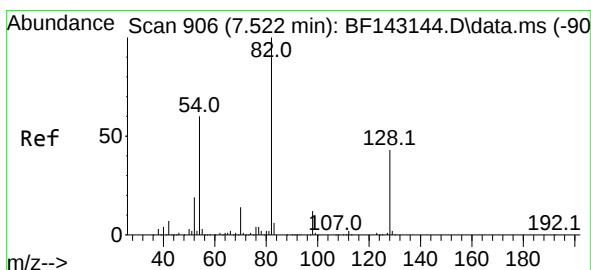
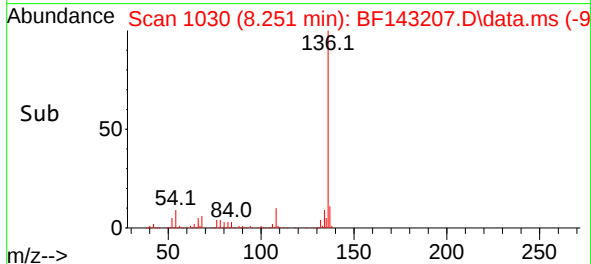
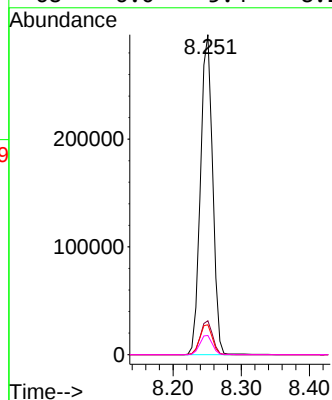
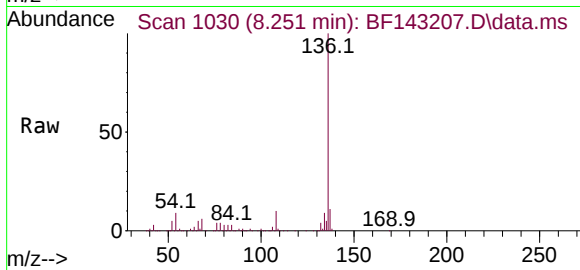
Ion Ratio Lower Upper

136 100

137 10.6 8.6 13.0

54 9.3 8.2 12.2

68 6.0 5.4 8.2



#23

Nitrobenzene-d5

Concen: 51.593 ng

RT: 7.522 min Scan# 906

Delta R.T. -0.000 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

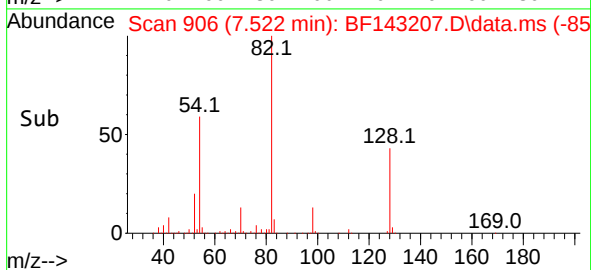
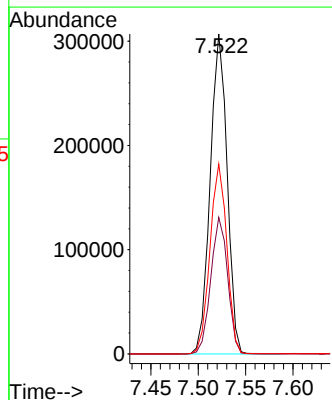
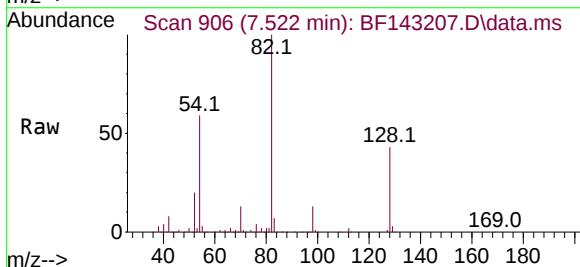
Tgt Ion: 82 Resp: 381721

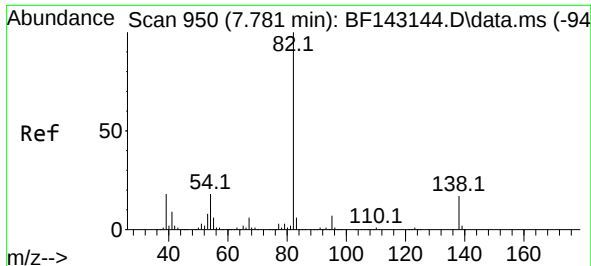
Ion Ratio Lower Upper

82 100

128 42.6 33.6 50.4

54 59.3 47.1 70.7

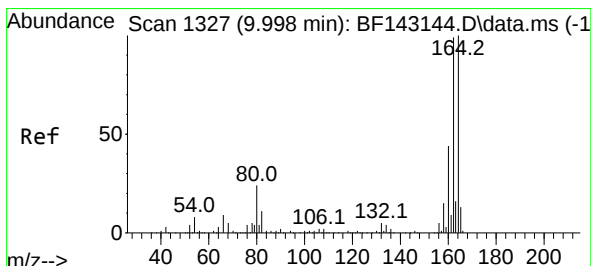
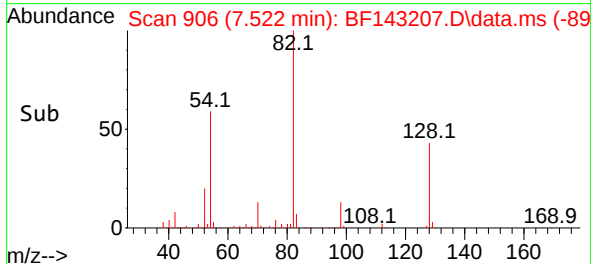
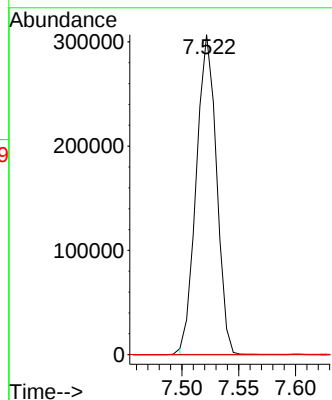
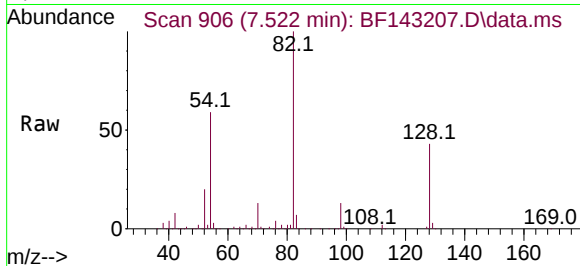




#25  
Isophorone  
Concen: 28.973 ng  
RT: 7.522 min Scan# 90  
Delta R.T. -0.259 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

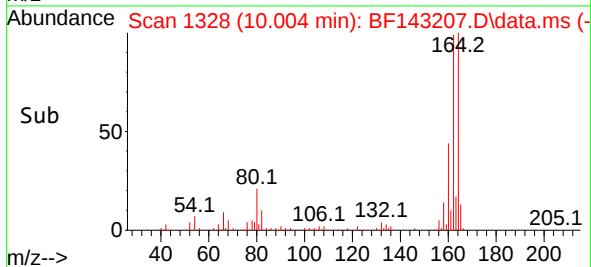
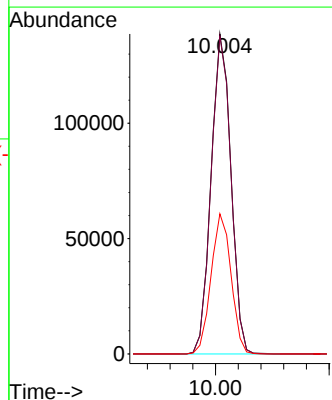
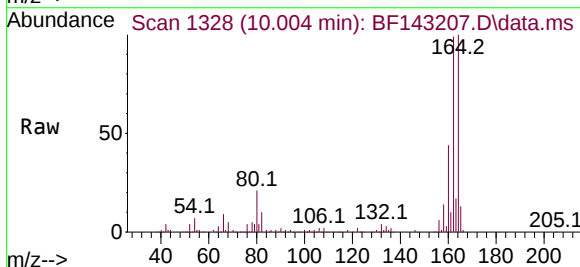
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WC-1

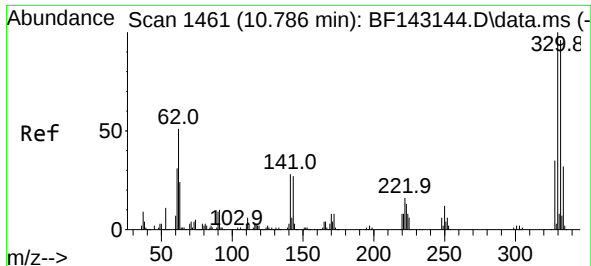
Tgt Ion: 82 Resp: 378414  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.5 8.3#  
138 0.0 13.8 20.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.004 min Scan# 1328  
Delta R.T. 0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:164 Resp: 168655  
Ion Ratio Lower Upper  
164 100  
162 99.3 79.0 118.6  
160 43.8 35.1 52.7

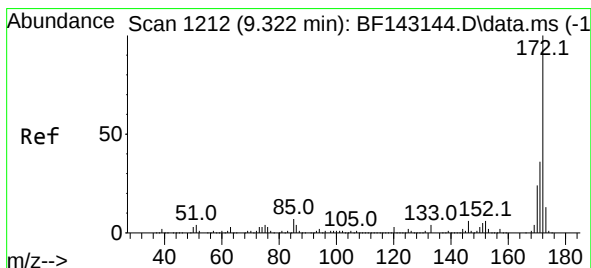
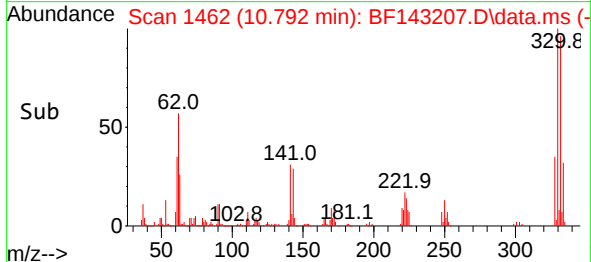
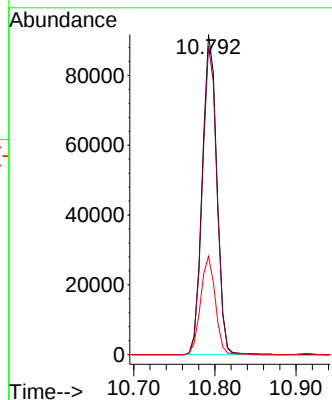
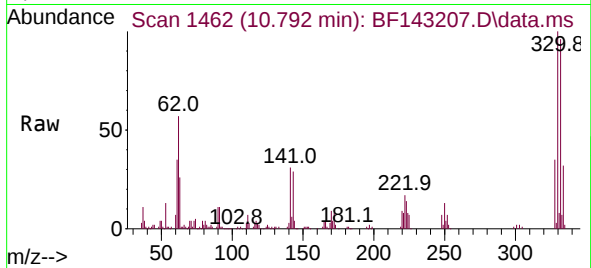




#42  
2,4,6-Tribromophenol  
Concen: 65.634 ng  
RT: 10.792 min Scan# 1462  
Delta R.T. 0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

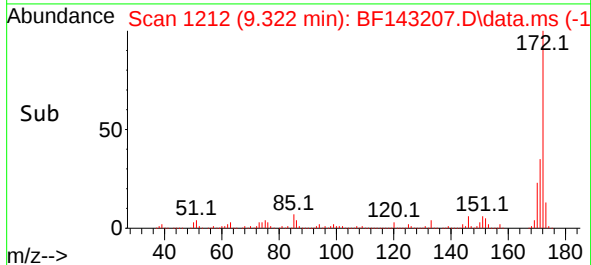
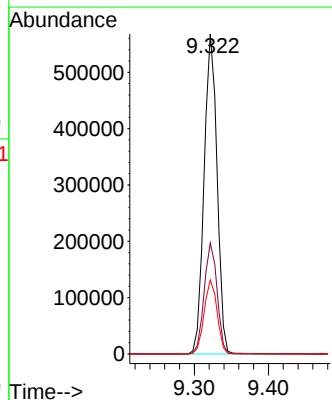
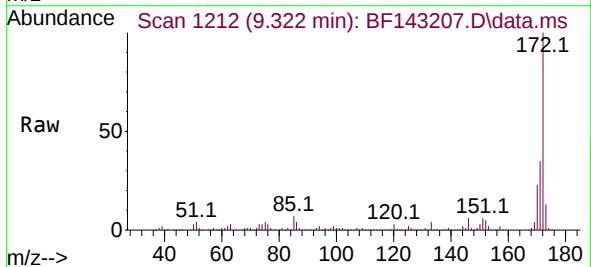
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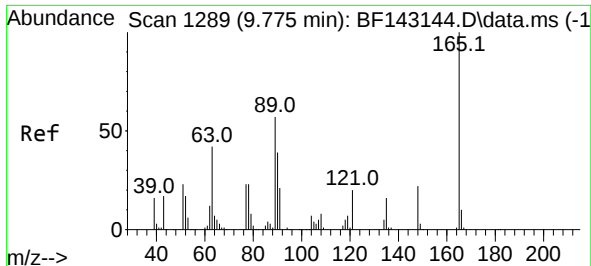
Tgt Ion:330 Resp: 114354  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.7 115.1  
141 30.8 23.3 34.9



#45  
2-Fluorobiphenyl  
Concen: 55.936 ng  
RT: 9.322 min Scan# 1212  
Delta R.T. -0.000 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:172 Resp: 689800  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.6 42.8  
170 23.1 18.8 28.2

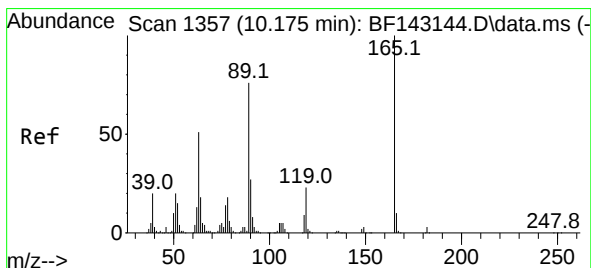
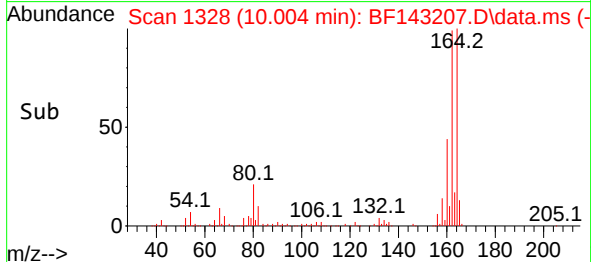
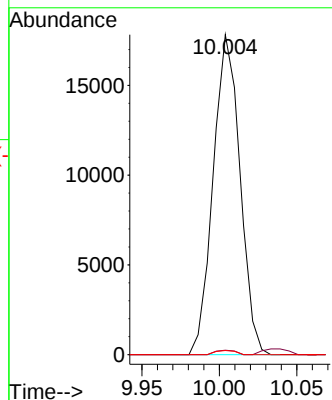
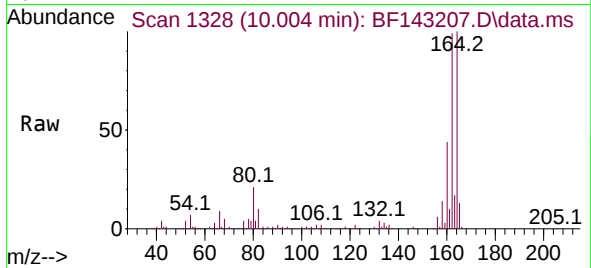




#51  
2,6-Dinitrotoluene  
Concen: 9.613 ng  
RT: 10.004 min Scan# 1328  
Delta R.T. 0.229 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

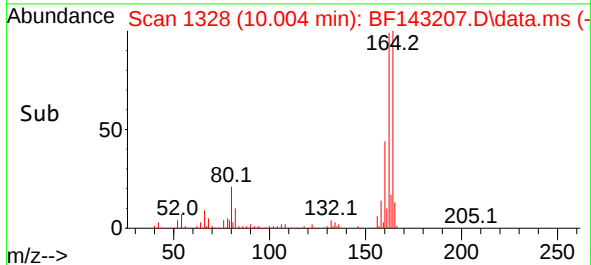
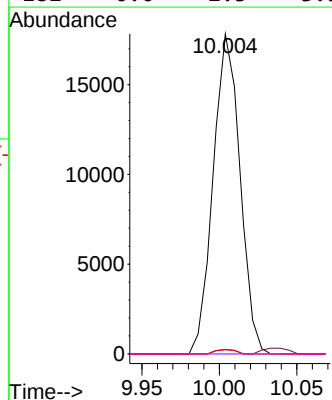
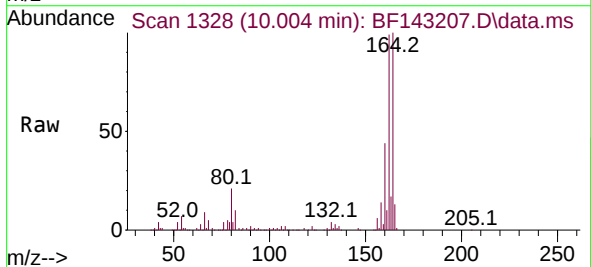
Instrument :  
BNA\_F  
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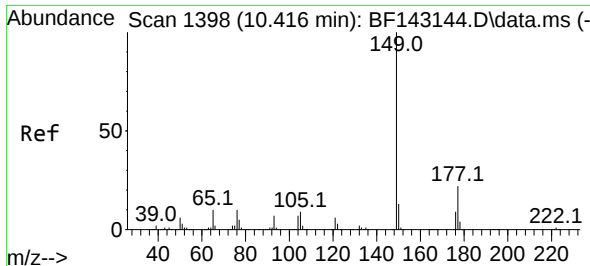
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Ion Ratio Lower Upper  
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63 1.4 49.4 74.2#  
89 1.3 46.2 69.2#



#57  
2,4-Dinitrotoluene  
Concen: 7.662 ng  
RT: 10.004 min Scan# 1328  
Delta R.T. -0.171 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:165 Resp: 21499  
Ion Ratio Lower Upper  
165 100  
63 1.4 41.0 61.4#  
89 1.3 61.1 91.7#  
182 0.0 2.3 3.5#





#60  
Diethylphthalate  
Concen: 2.713 ng  
RT: 10.410 min Scan# 1398  
Delta R.T. -0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

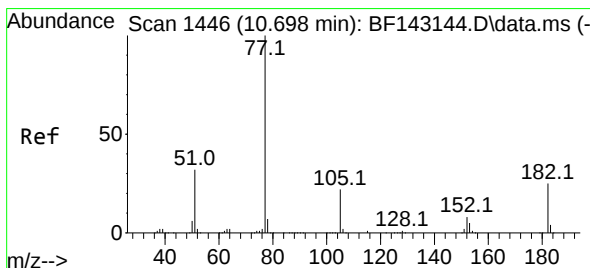
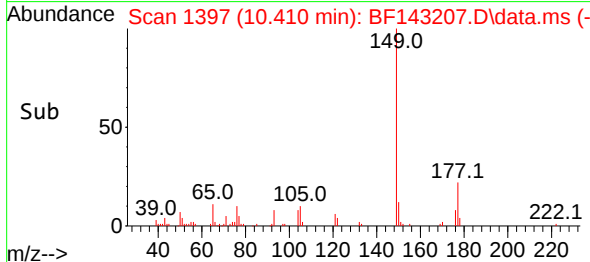
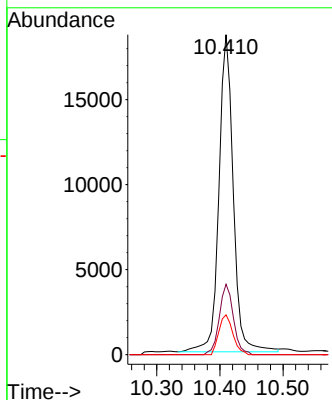
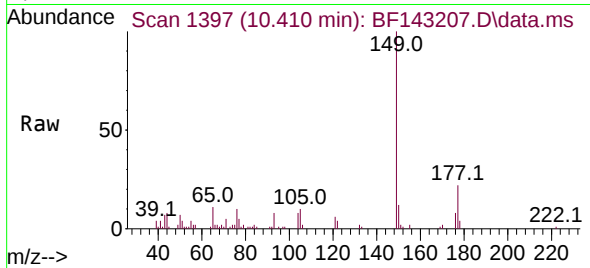
Instrument :

BNA\_F

ClientSampleId :

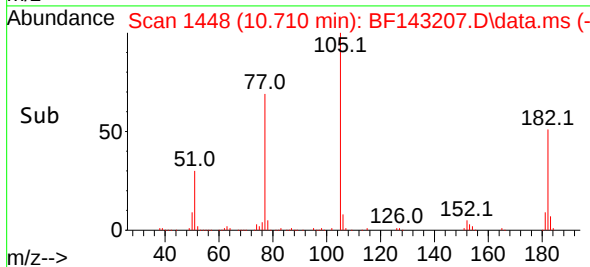
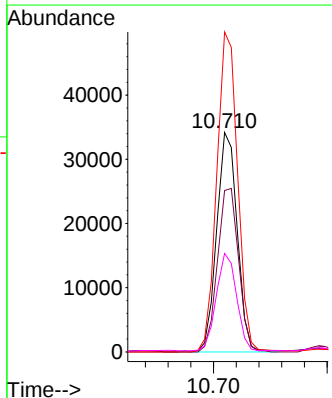
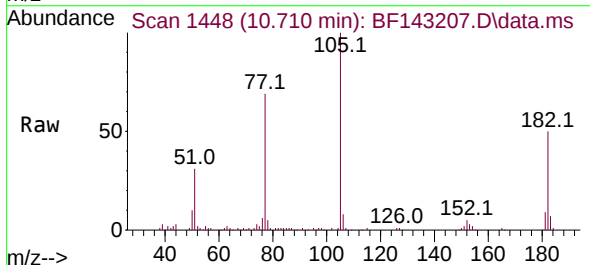
WC-1

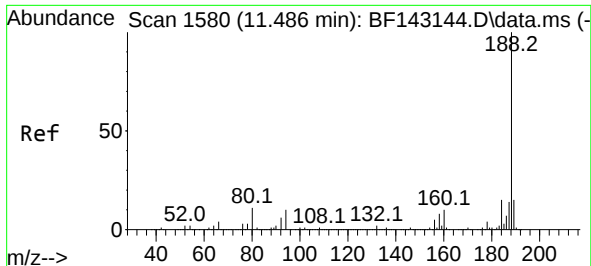
Tgt Ion:149 Resp: 29478  
Ion Ratio Lower Upper  
149 100  
177 22.0 17.5 26.3  
150 12.4 10.2 15.2



#63  
Azobenzene  
Concen: 3.791 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. 0.012 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion: 77 Resp: 42927  
Ion Ratio Lower Upper  
77 100  
182 73.6 4.6 44.6#  
105 145.8 1.4 41.4#  
51 44.9 13.7 53.7

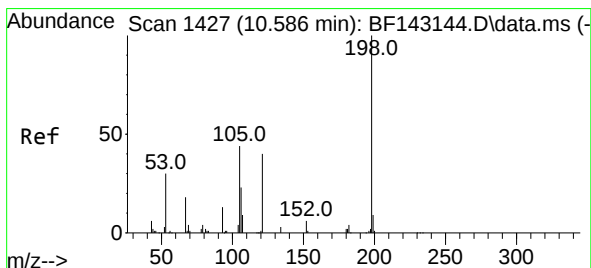
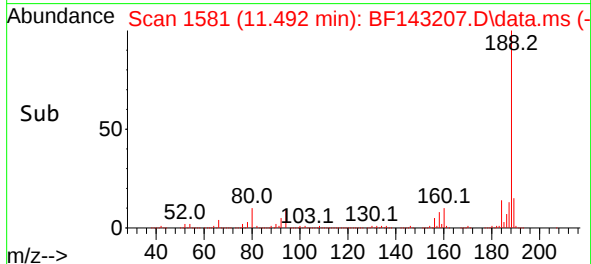
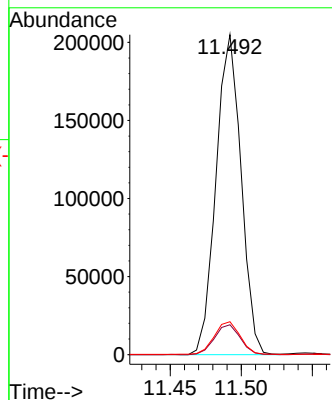
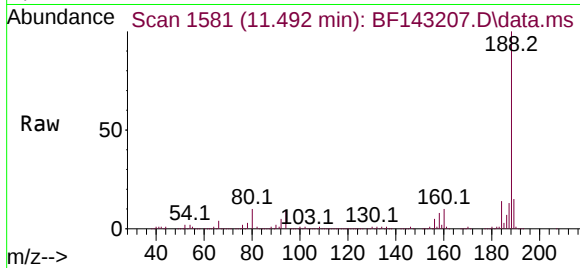




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.492 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

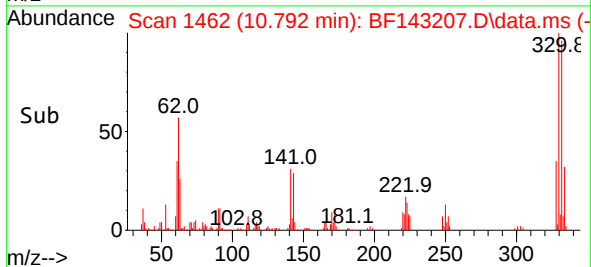
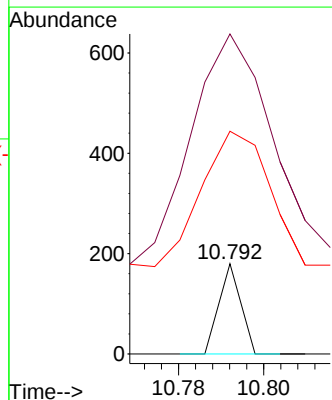
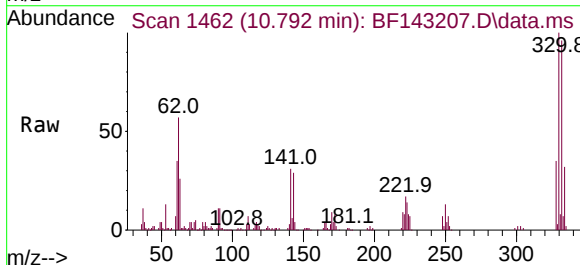
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1

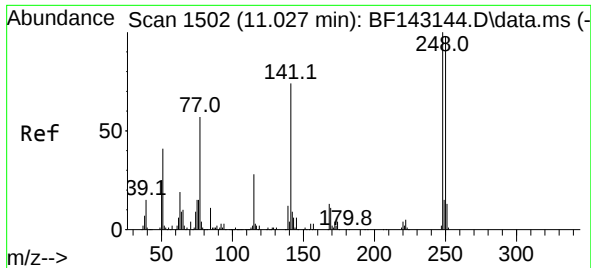
Tgt Ion:188 Resp: 251570  
Ion Ratio Lower Upper  
188 100  
94 9.3 8.3 12.5  
80 10.3 9.0 13.6



#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.455 ng  
RT: 10.792 min Scan# 1462  
Delta R.T. 0.206 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:198 Resp: 64  
Ion Ratio Lower Upper  
198 100  
51 354.4 37.2 77.2#  
105 246.7 24.8 64.8#

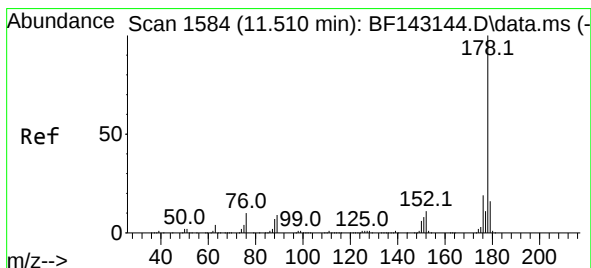
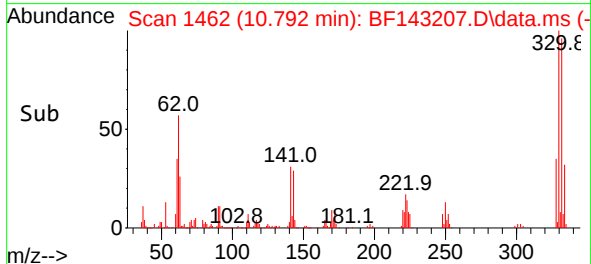
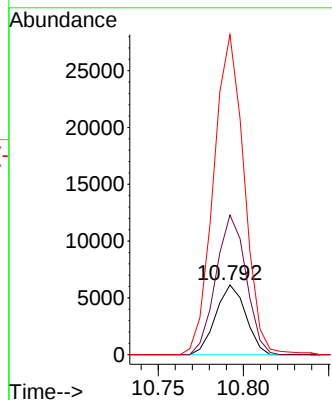
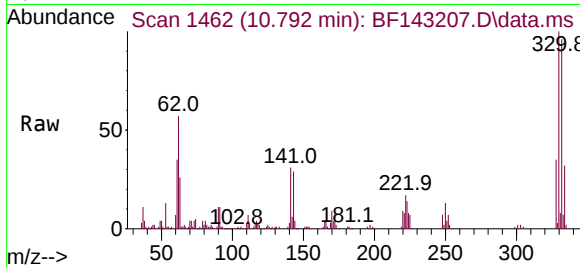




#67  
4-Bromophenyl-phenylether  
Concen: 2.505 ng  
RT: 10.792 min Scan# 14  
Delta R.T. -0.235 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

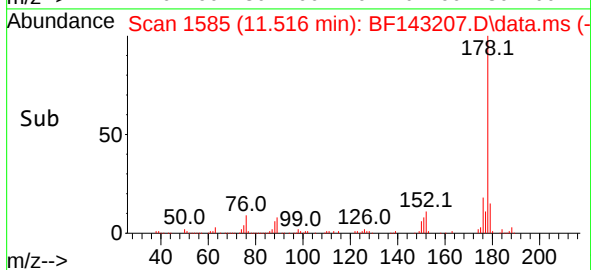
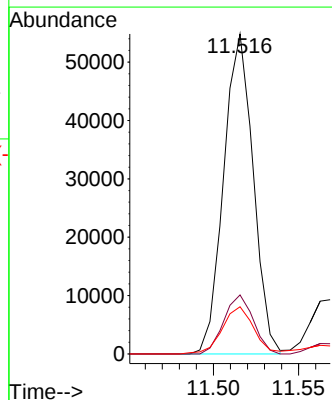
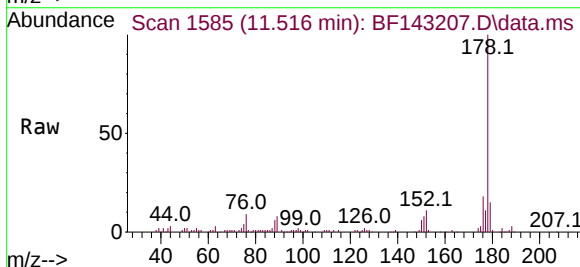
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1

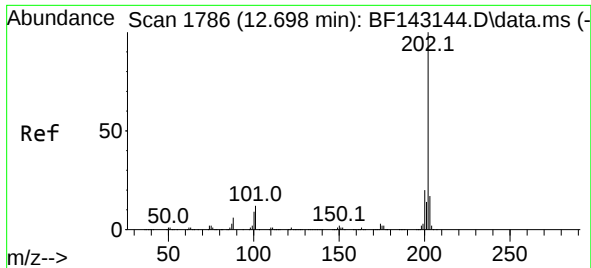
Tgt Ion:248 Resp: 7511  
Ion Ratio Lower Upper  
248 100  
250 200.3 78.3 117.5#  
141 459.3 59.2 88.8#



#71  
Phenanthrene  
Concen: 4.948 ng  
RT: 11.516 min Scan# 1585  
Delta R.T. 0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:178 Resp: 66095  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.3 22.9  
179 14.7 12.5 18.7

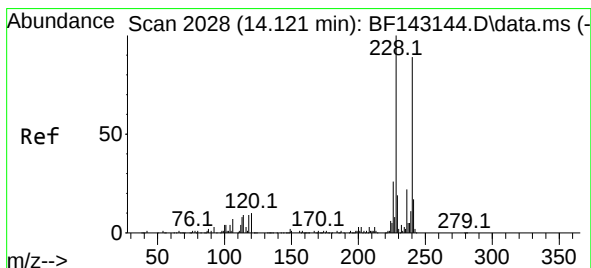
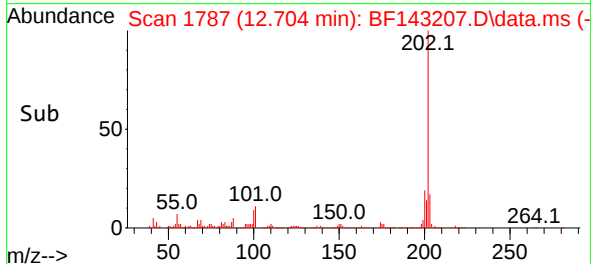
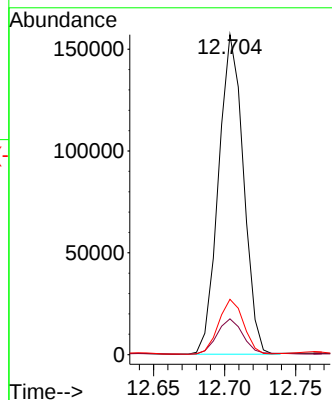
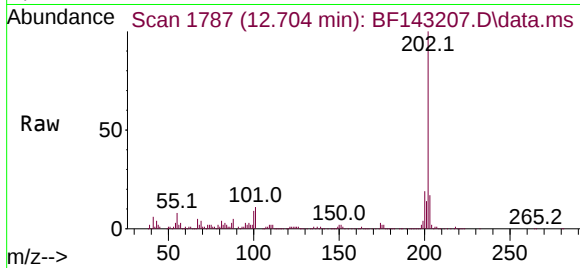




#75  
Fluoranthene  
Concen: 15.653 ng  
RT: 12.704 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

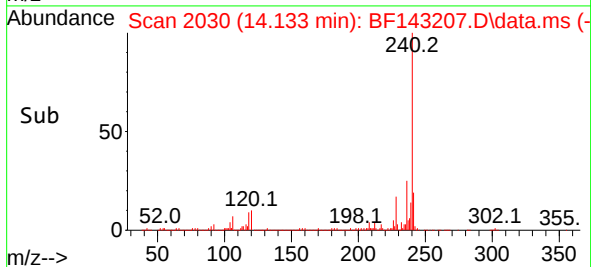
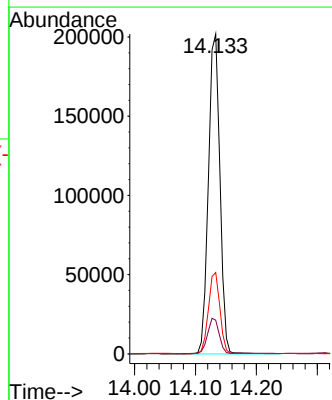
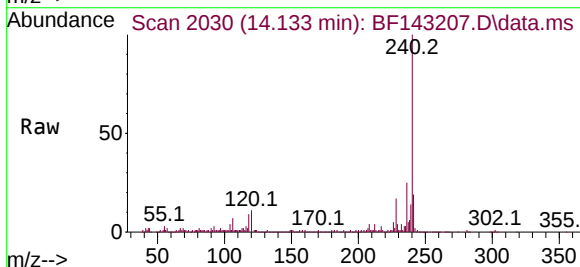
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1

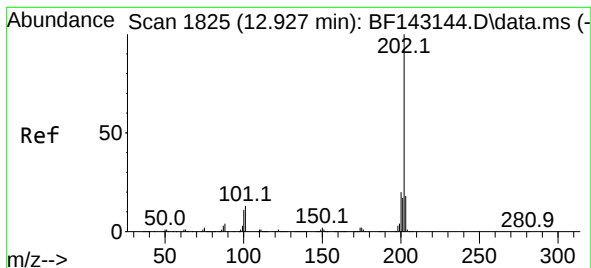
Tgt Ion:202 Resp: 191913  
Ion Ratio Lower Upper  
202 100  
101 11.2 0.0 31.7  
203 17.3 0.0 37.4



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.133 min Scan# 2030  
Delta R.T. 0.012 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:240 Resp: 264481  
Ion Ratio Lower Upper  
240 100  
120 10.5 9.4 14.2  
236 25.4 20.2 30.4





#78

Pyrene

Concen: 8.347 ng

RT: 12.933 min Scan# 1825

Delta R.T. 0.006 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

Instrument :

BNA\_F

ClientSampleId :

WC-1

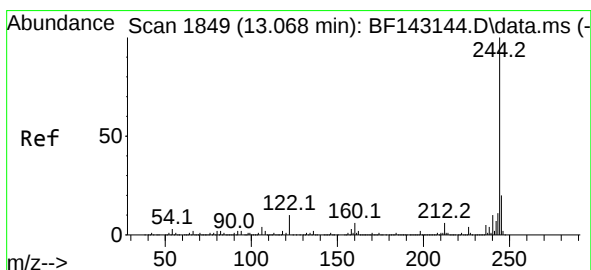
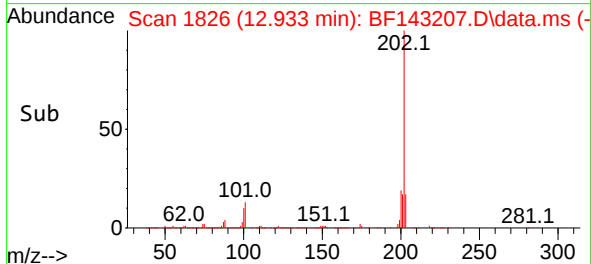
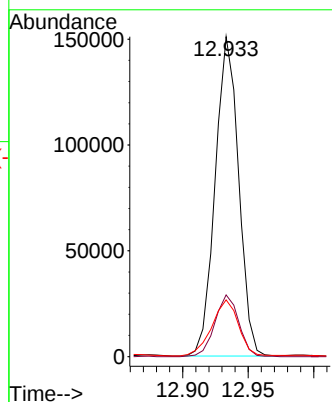
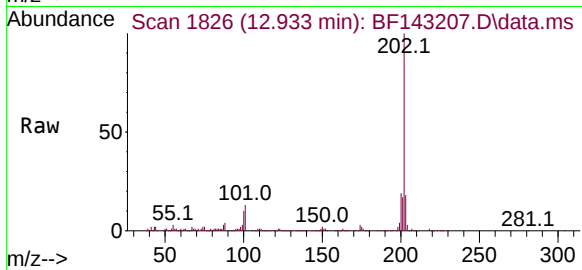
Tgt Ion:202 Resp: 188410

Ion Ratio Lower Upper

202 100

200 19.3 15.7 23.5

203 17.7 14.2 21.2



#79

Terphenyl-d14

Concen: 34.112 ng

RT: 13.074 min Scan# 1850

Delta R.T. 0.006 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

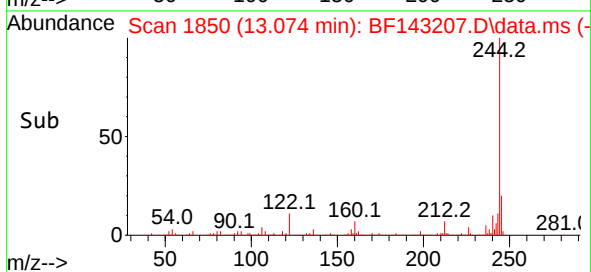
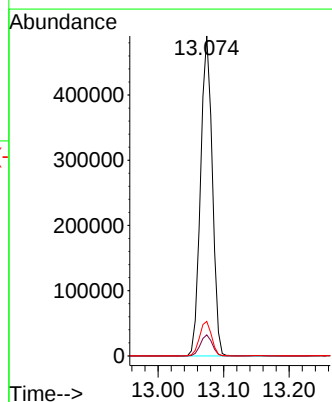
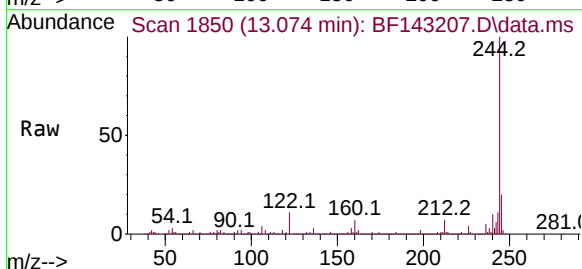
Tgt Ion:244 Resp: 606267

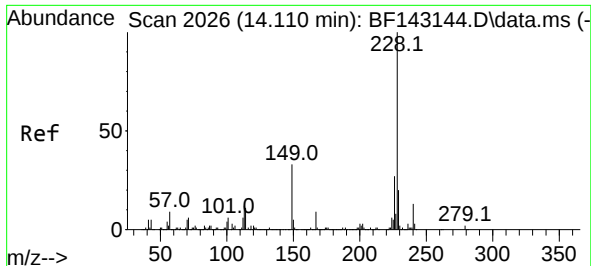
Ion Ratio Lower Upper

244 100

212 6.6 5.2 7.8

122 10.8 8.2 12.2

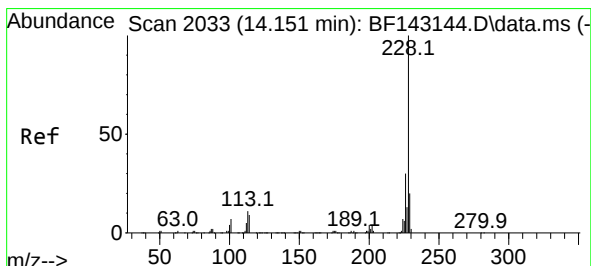
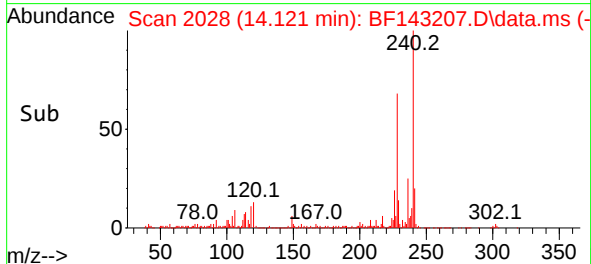
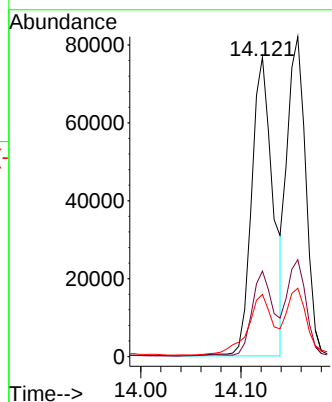
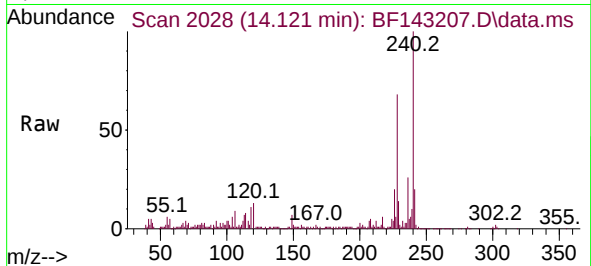




#81  
Benzo(a)anthracene  
Concen: 6.393 ng  
RT: 14.121 min Scan# 20  
Delta R.T. 0.012 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

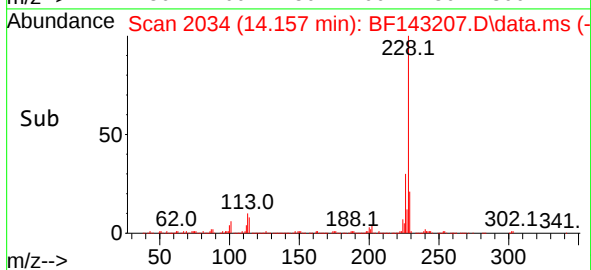
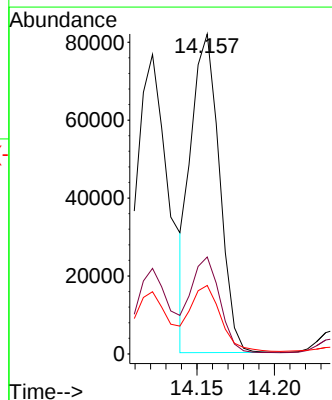
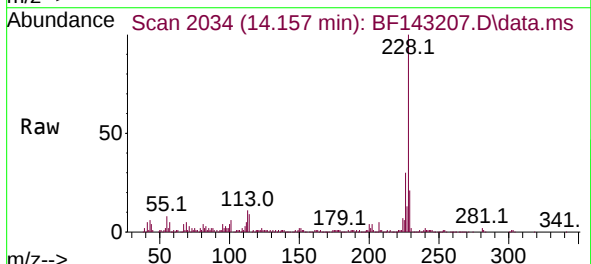
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1

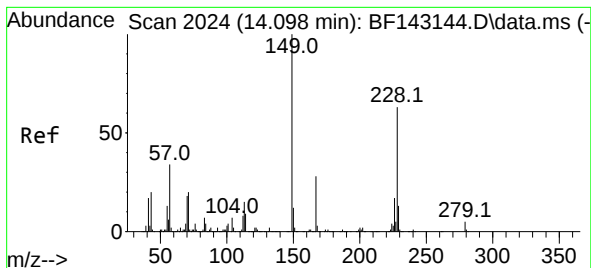
Tgt Ion:228 Resp: 113210  
Ion Ratio Lower Upper  
228 100  
226 28.5 21.7 32.5  
229 20.8 15.8 23.6



#83  
Chrysene  
Concen: 6.575 ng  
RT: 14.157 min Scan# 2034  
Delta R.T. 0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:228 Resp: 104672  
Ion Ratio Lower Upper  
228 100  
226 30.3 23.8 35.8  
229 21.4 15.6 23.4

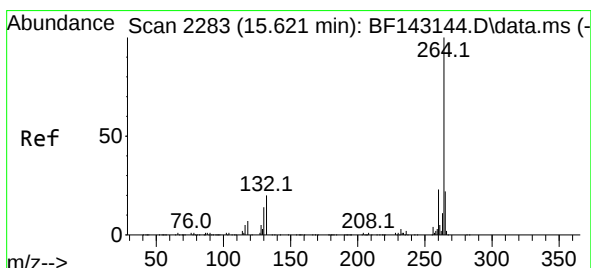
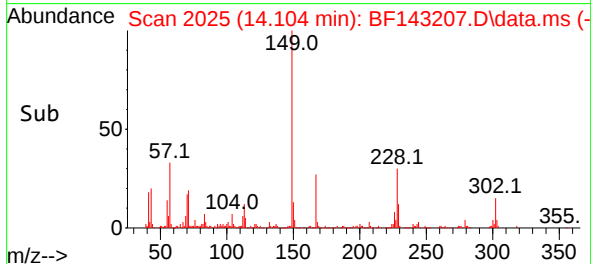
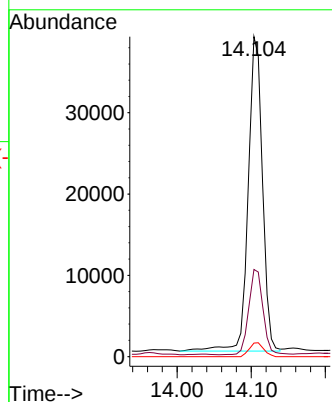
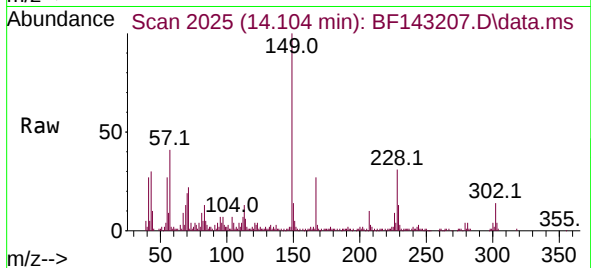




#84  
Bis(2-ethylhexyl)phthalate  
Concen: 4.936 ng  
RT: 14.104 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

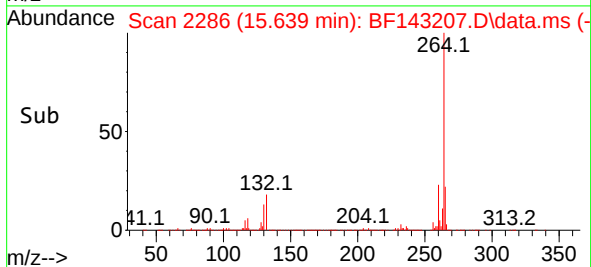
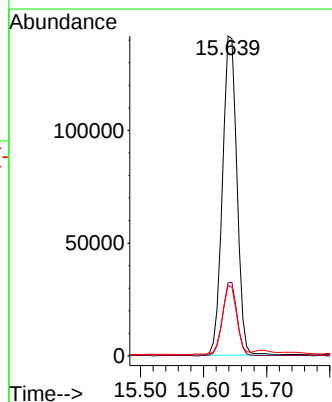
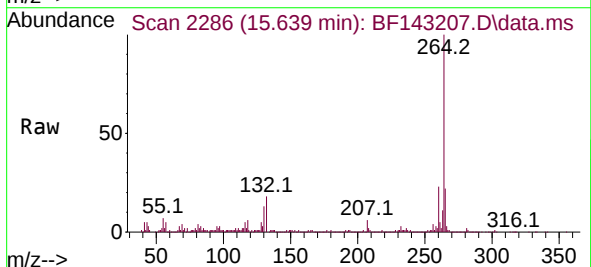
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1

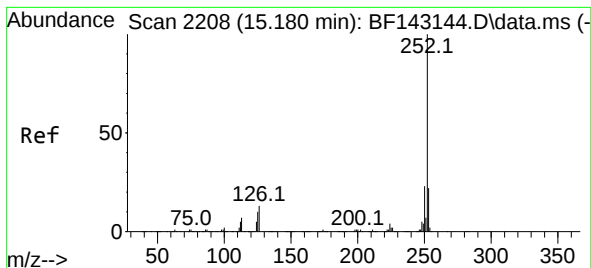
Tgt Ion:149 Resp: 51639  
Ion Ratio Lower Upper  
149 100  
167 27.2 22.3 33.5  
279 4.2 3.6 5.4



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.639 min Scan# 2286  
Delta R.T. 0.018 min  
Lab File: BF143207.D  
Acq: 23 Jul 2025 00:12

Tgt Ion:264 Resp: 225264  
Ion Ratio Lower Upper  
264 100  
260 22.9 18.5 27.7  
265 22.0 17.4 26.2





#88

Benzo(b)fluoranthene

Concen: 13.024 ng

RT: 15.198 min Scan# 2211

Delta R.T. 0.018 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

Instrument :

BNA\_F

ClientSampleId :

WC-1

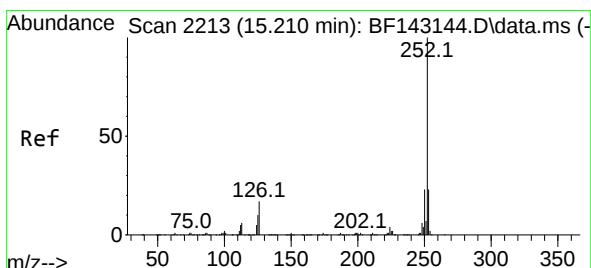
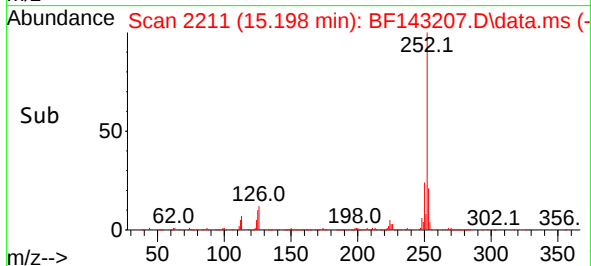
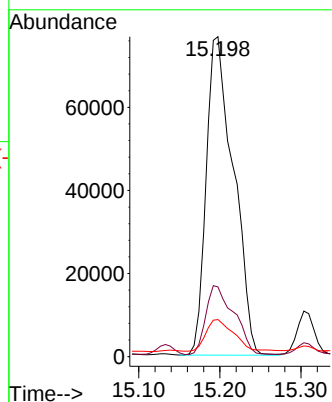
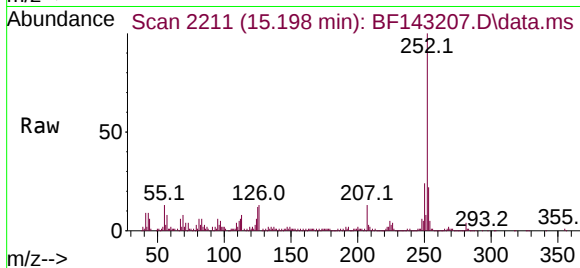
Tgt Ion:252 Resp: 179229

Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

125 11.6 8.0 12.0



#89

Benzo(k)fluoranthene

Concen: 14.595 ng

RT: 15.198 min Scan# 2211

Delta R.T. -0.012 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

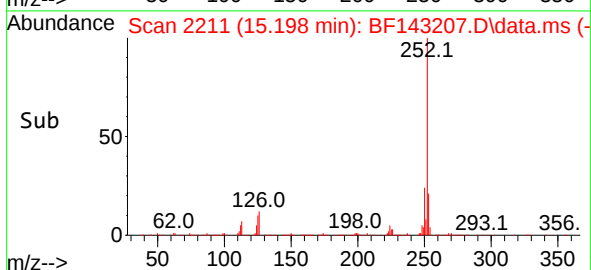
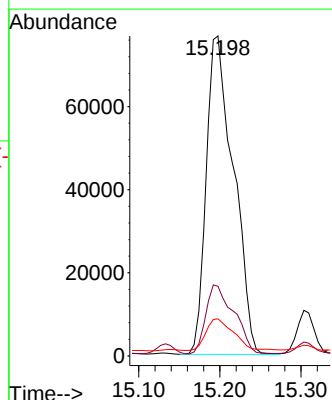
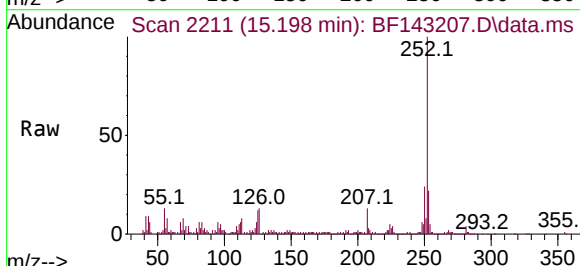
Tgt Ion:252 Resp: 179229

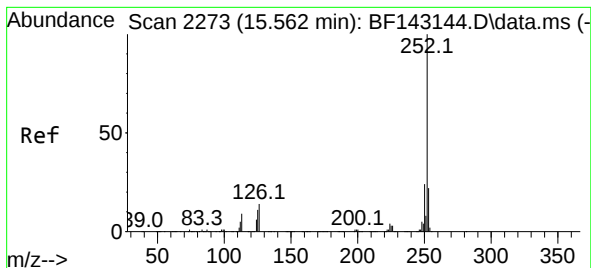
Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.6

125 11.6 8.1 12.1





#90

Benzo(a)pyrene

Concen: 6.170 ng

RT: 15.574 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

Instrument :

BNA\_F

ClientSampleId :

WC-1

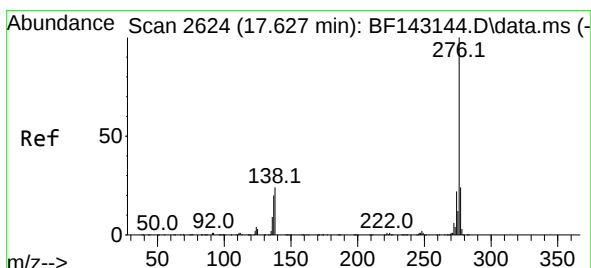
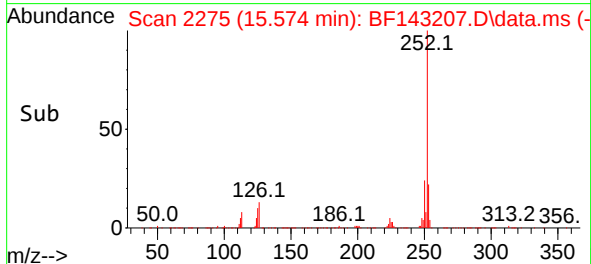
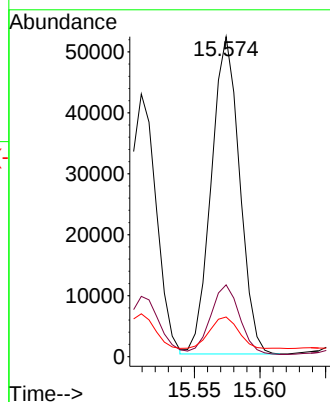
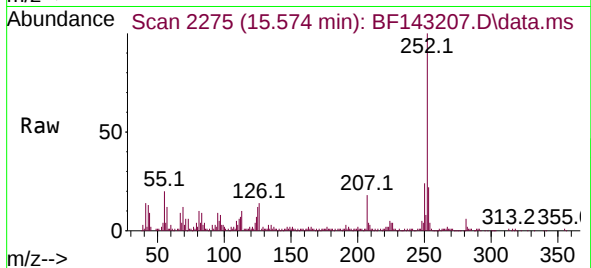
Tgt Ion:252 Resp: 78232

Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

125 12.4 8.6 13.0



#92

Benzo(g,h,i)perylene

Concen: 2.537 ng

RT: 17.645 min Scan# 2627

Delta R.T. 0.018 min

Lab File: BF143207.D

Acq: 23 Jul 2025 00:12

Tgt Ion:276 Resp: 31734

Ion Ratio Lower Upper

276 100

277 24.0 19.1 28.7

138 24.3 18.9 28.3

