

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032725\  
 Data File : BF142130.D  
 Acq On : 27 Mar 2025 17:46  
 Operator : RC/JU  
 Sample : Q1648-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4

Quant Time: Mar 27 18:21:41 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

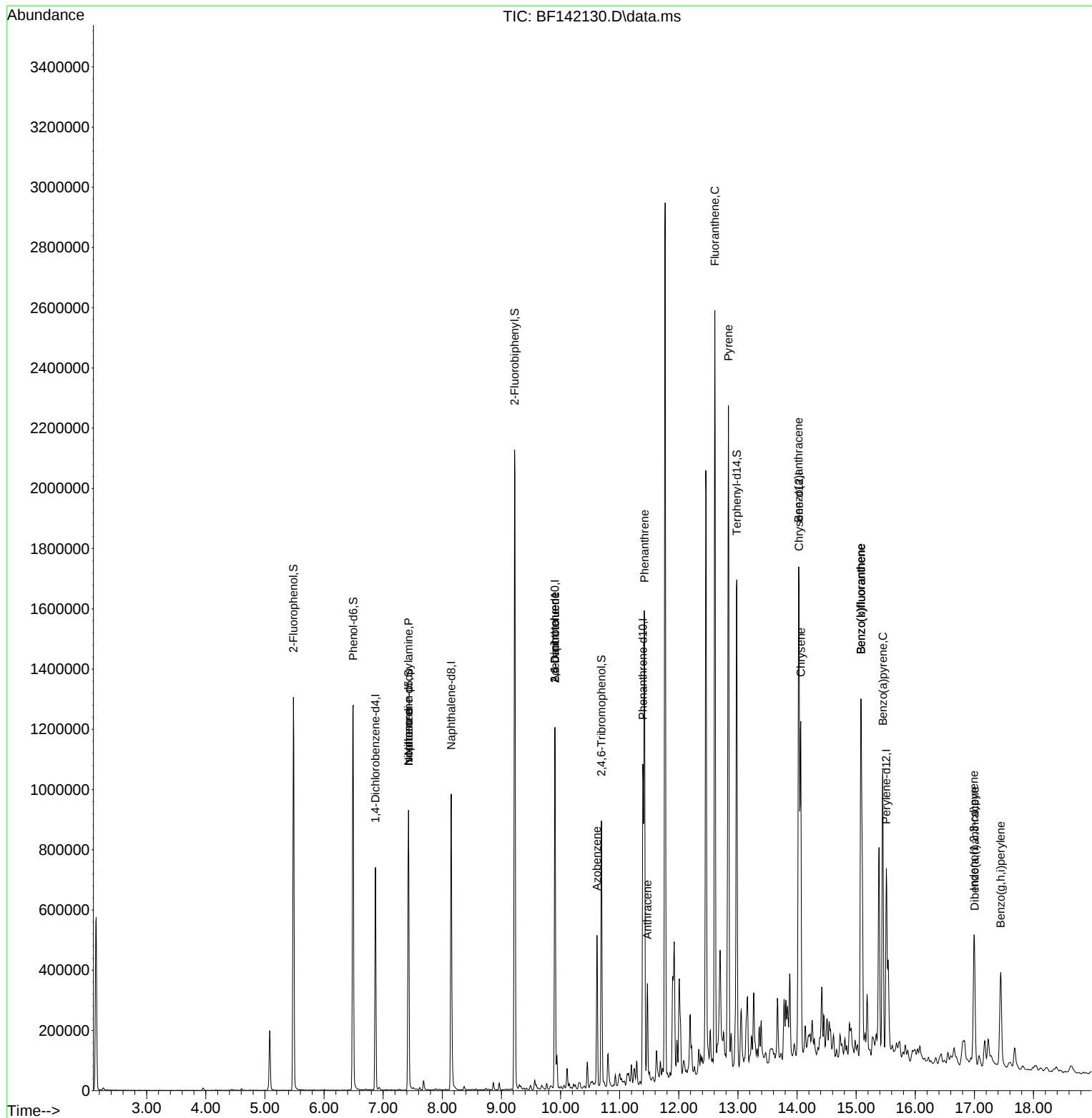
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 158301   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.151  | 136  | 635244   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.904  | 164  | 358729   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.392 | 188  | 553617   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 14.033 | 240  | 314890   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.510 | 264  | 359543   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.481  | 112  | 508495   | 53.610 | ng    | -0.01    |
| 7) Phenol-d6                  | 6.493  | 99   | 633620   | 52.467 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.428  | 82   | 421205   | 37.314 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 152198   | 33.443 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.222  | 172  | 975649   | 41.362 | ng    | -0.02    |
| 79) Terphenyl-d14             | 12.980 | 244  | 798175   | 37.475 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.428  | 70   | 57902    | 7.462  | ng    | # 77     |
| 25) Isophorone                | 7.428  | 82   | 410669   | 20.581 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene        | 9.904  | 165  | 47470    | 9.076  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene        | 9.904  | 165  | 47582    | 6.965  | ng    | # 24     |
| 63) Azobenzene                | 10.616 | 77   | 116513   | 5.003  | ng    | # 1      |
| 71) Phenanthrene              | 11.422 | 178  | 857462   | 28.675 | ng    | 99       |
| 72) Anthracene                | 11.469 | 178  | 182934   | 6.098  | ng    | 99       |
| 75) Fluoranthene              | 12.610 | 202  | 1423159  | 44.867 | ng    | 99       |
| 78) Pyrene                    | 12.839 | 202  | 1288584  | 47.308 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.027 | 228  | 723783   | 35.028 | ng    | 98       |
| 83) Chrysene                  | 14.063 | 228  | 555659   | 29.666 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.992 | 276  | 326409   | 14.034 | ng    | 94       |
| 88) Benzo(b)fluoranthene      | 15.080 | 252  | 1088252  | 44.163 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.080 | 252  | 1088252  | 51.606 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.451 | 252  | 601968   | 31.221 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.004 | 278  | 84667    | 4.412  | ng    | 94       |
| 92) Benzo(g,h,i)perylene      | 17.445 | 276  | 297230   | 15.674 | ng    | 98       |
| -----                         |        |      |          |        |       |          |

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

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Sample : Q1648-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
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TP-4

Quant Time: Mar 27 18:21:41 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

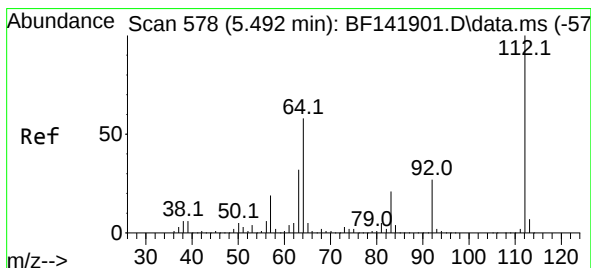
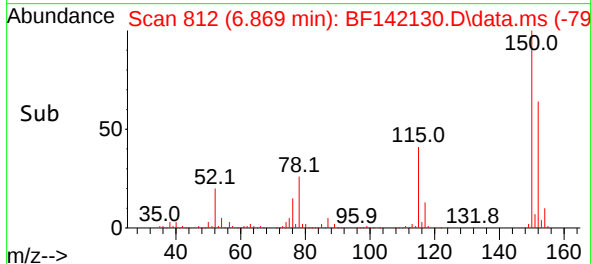
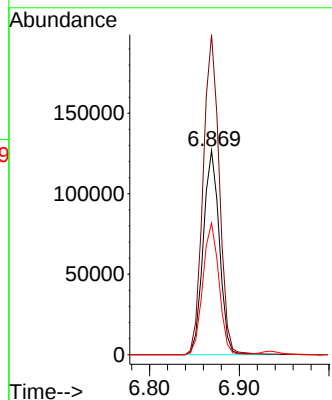
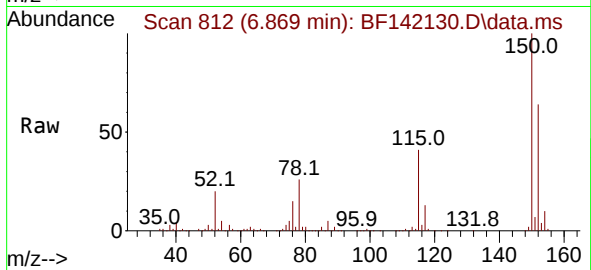




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 814  
Delta R.T. -0.012 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

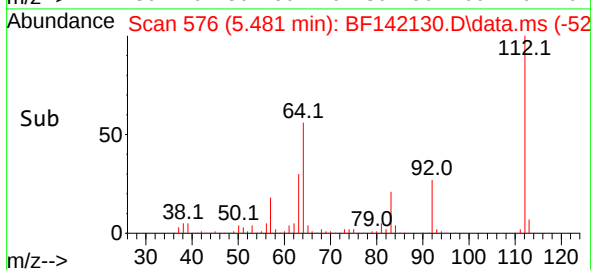
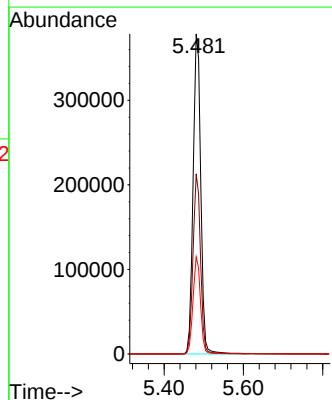
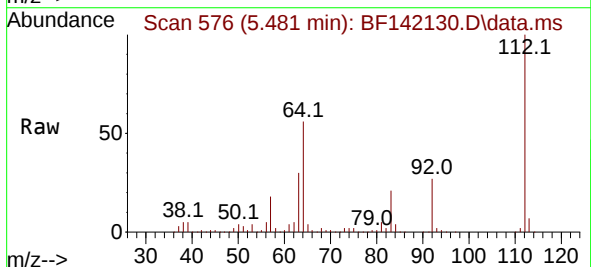
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion:152 Resp: 158301  
Ion Ratio Lower Upper  
152 100  
150 156.8 127.4 191.2  
115 64.5 51.9 77.9



#5  
2-Fluorophenol  
Concen: 53.610 ng  
RT: 5.481 min Scan# 576  
Delta R.T. -0.012 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion:112 Resp: 508495  
Ion Ratio Lower Upper  
112 100  
64 56.3 46.5 69.7  
63 30.4 25.4 38.2

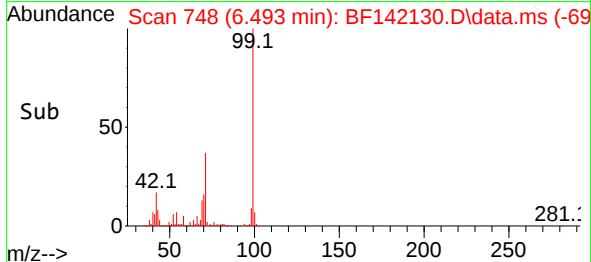
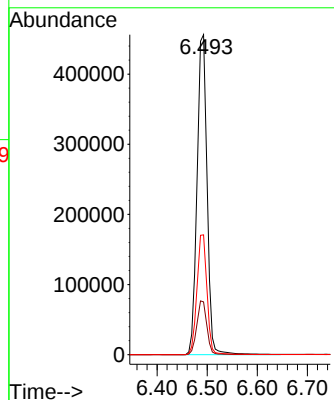
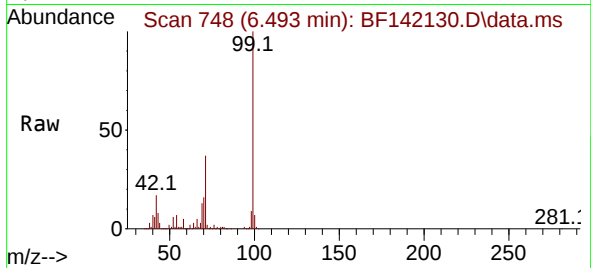




#7  
Phenol-d6  
Concen: 52.467 ng  
RT: 6.493 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

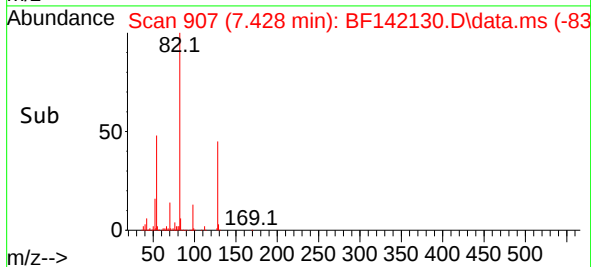
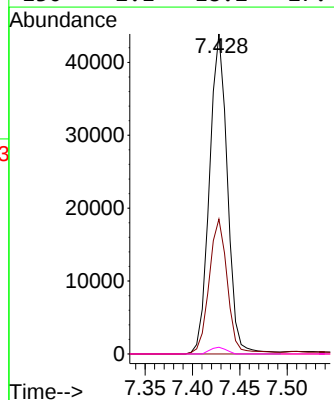
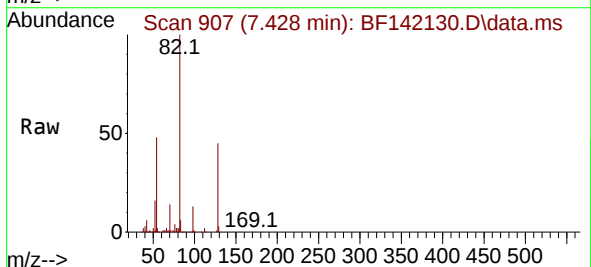
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion: 99 Resp: 633620  
Ion Ratio Lower Upper  
99 100  
42 16.5 14.6 21.8  
71 37.5 30.8 46.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 7.462 ng  
RT: 7.428 min Scan# 907  
Delta R.T. 0.130 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion: 70 Resp: 57902  
Ion Ratio Lower Upper  
70 100  
42 42.2 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# 1032  
Delta R.T. -0.012 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

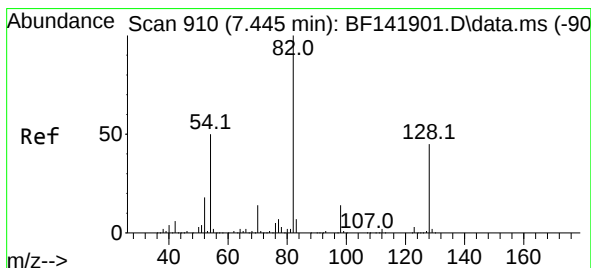
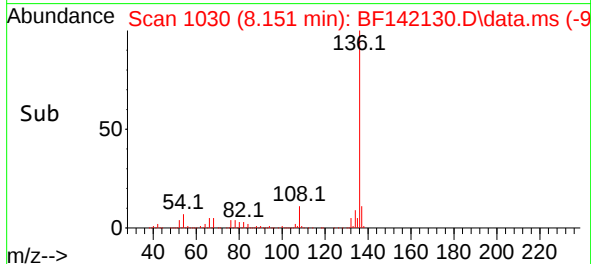
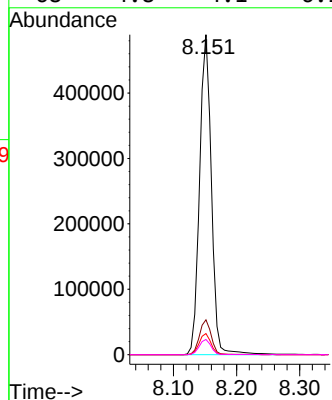
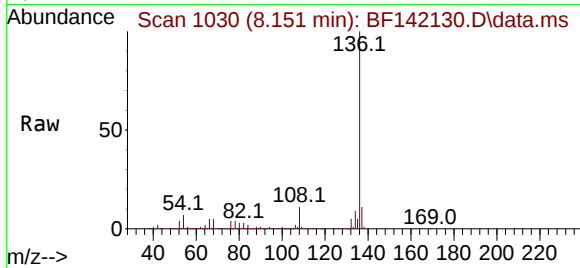
Instrument :

BNA\_F

ClientSampleId :

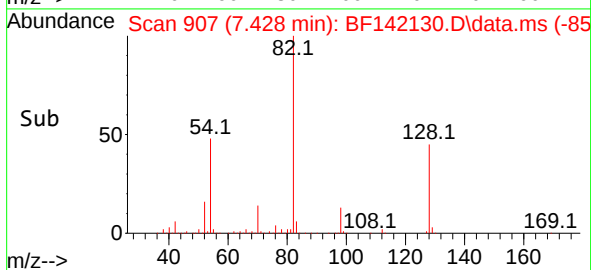
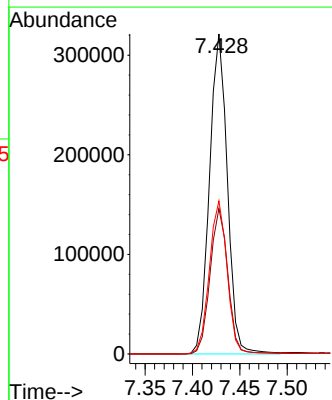
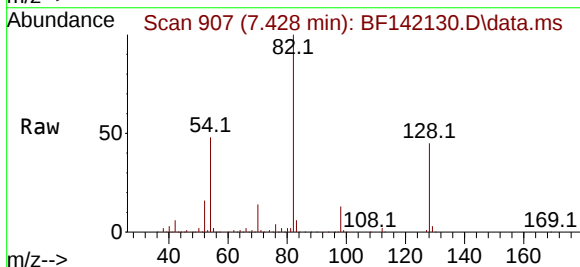
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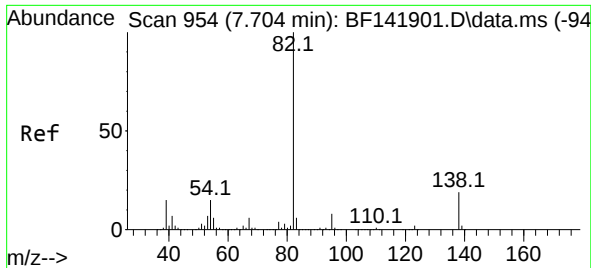
Tgt Ion:136 Resp: 635244  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.8 13.2  
54 6.6 5.8 8.8  
68 4.8 4.1 6.1



#23  
Nitrobenzene-d5  
Concen: 37.314 ng  
RT: 7.428 min Scan# 907  
Delta R.T. -0.017 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion: 82 Resp: 421205  
Ion Ratio Lower Upper  
82 100  
128 45.5 36.0 54.0  
54 47.8 39.6 59.4

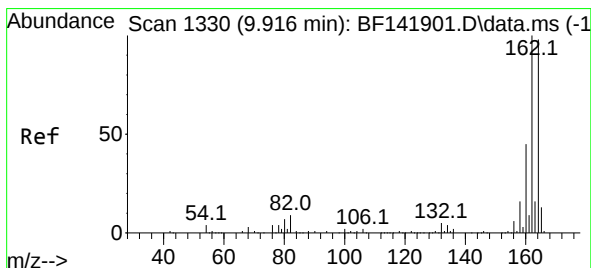
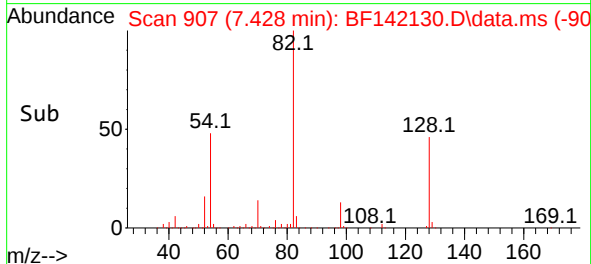
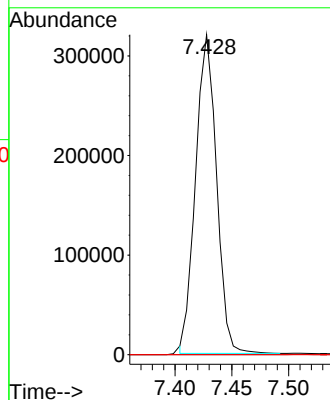
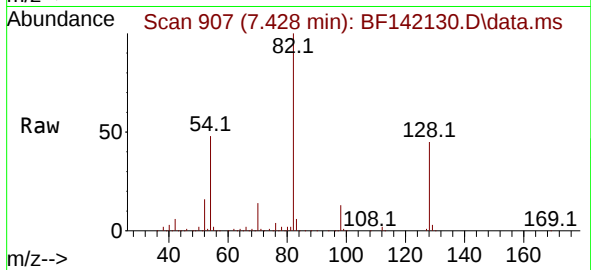




#25  
Isophorone  
Concen: 20.581 ng  
RT: 7.428 min Scan# 90  
Delta R.T. -0.276 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

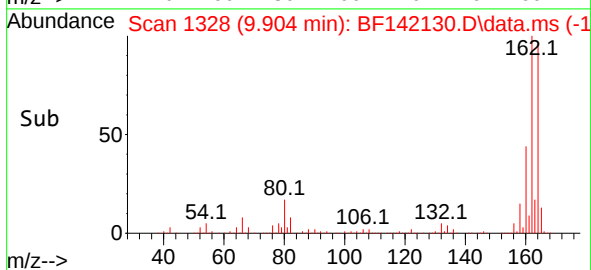
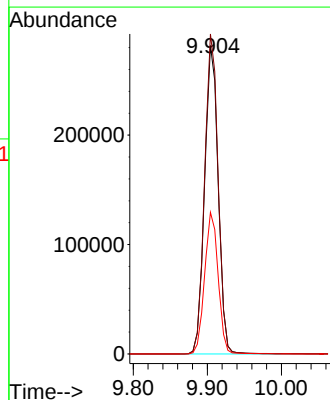
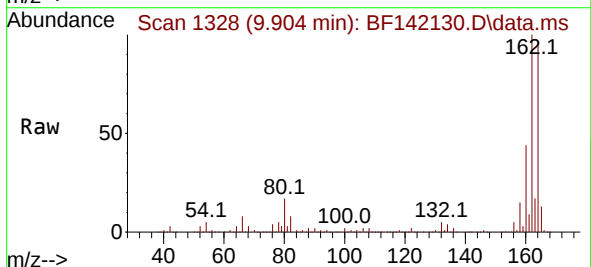
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

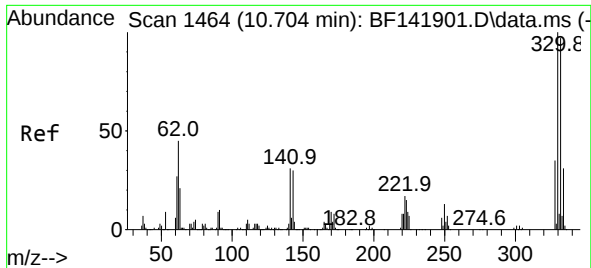
Tgt Ion: 82 Resp: 410669  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.4 9.6#  
138 0.0 14.9 22.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.904 min Scan# 1328  
Delta R.T. -0.012 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion:164 Resp: 358729  
Ion Ratio Lower Upper  
164 100  
162 103.8 81.8 122.6  
160 45.9 36.7 55.1

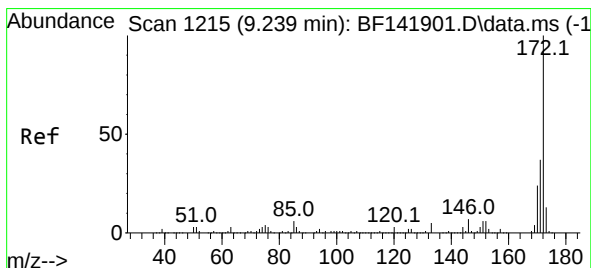
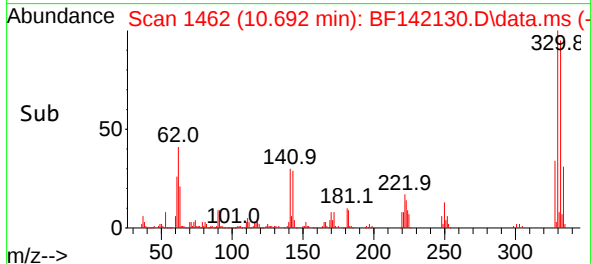
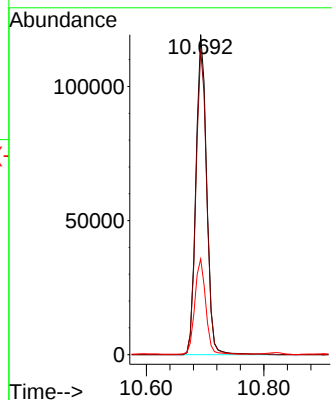
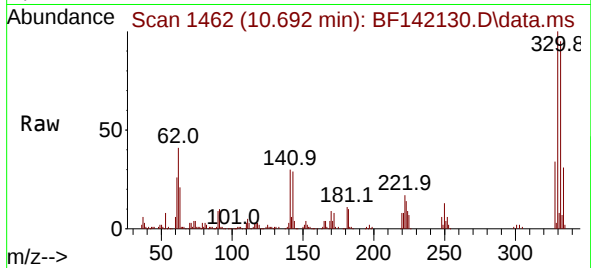




#42  
2,4,6-Tribromophenol  
Concen: 33.443 ng  
RT: 10.692 min Scan# 1462  
Delta R.T. -0.012 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

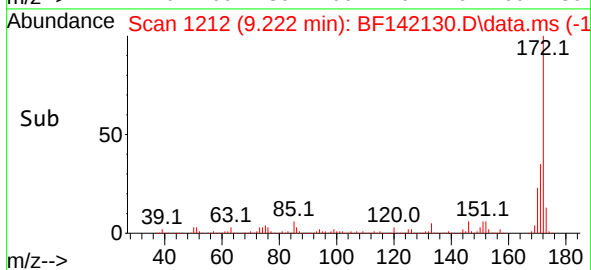
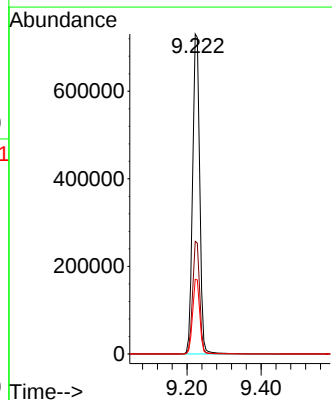
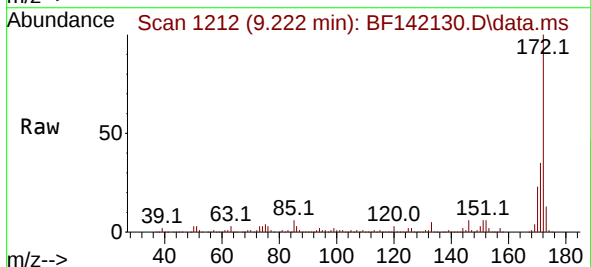
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

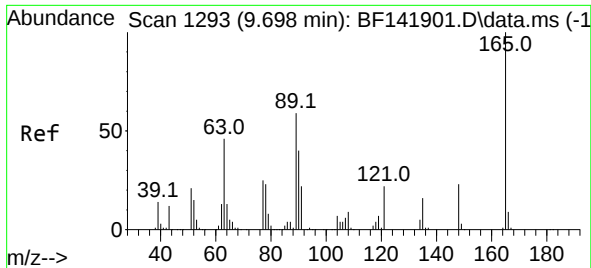
Tgt Ion:330 Resp: 152198  
Ion Ratio Lower Upper  
330 100  
332 95.4 77.6 116.4  
141 30.0 24.7 37.1



#45  
2-Fluorobiphenyl  
Concen: 41.362 ng  
RT: 9.222 min Scan# 1212  
Delta R.T. -0.017 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion:172 Resp: 975649  
Ion Ratio Lower Upper  
172 100  
171 35.2 29.3 43.9  
170 23.3 19.4 29.0

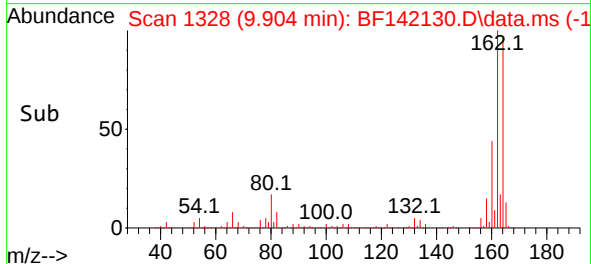
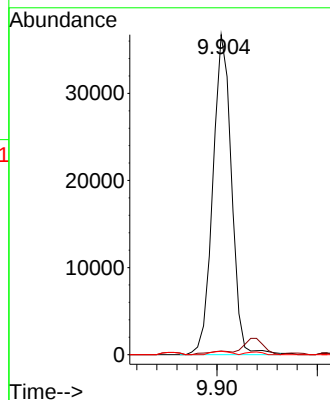
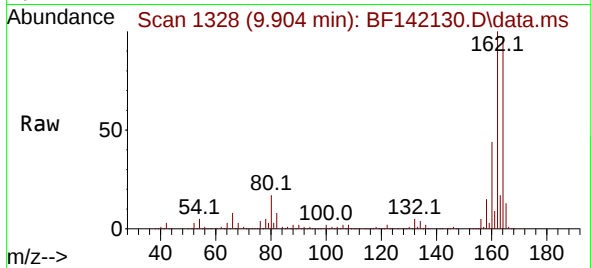




#51  
2,6-Dinitrotoluene  
Concen: 9.076 ng  
RT: 9.904 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

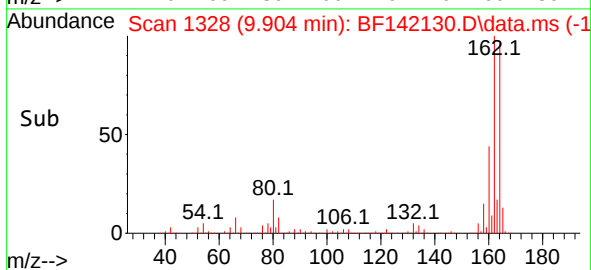
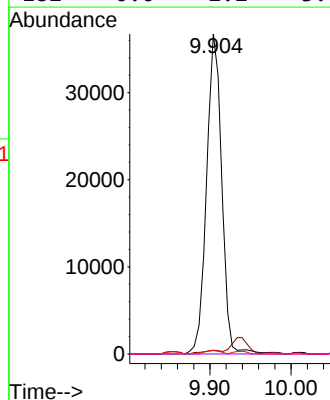
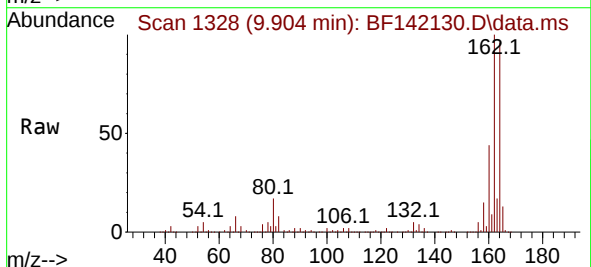
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BNA\_F  
ClientSampleId :  
TP-4

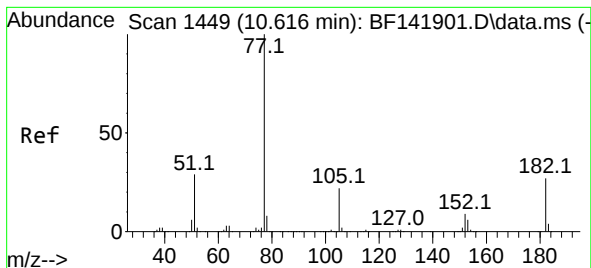
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Ion Ratio Lower Upper  
165 100  
63 1.1 47.0 70.4#  
89 1.1 47.4 71.2#



#57  
2,4-Dinitrotoluene  
Concen: 6.965 ng  
RT: 9.904 min Scan# 1328  
Delta R.T. -0.200 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion:165 Resp: 47582  
Ion Ratio Lower Upper  
165 100  
63 1.1 35.4 53.2#  
89 1.1 56.6 84.8#  
182 0.0 2.2 3.4#





#63

Azobenzene

Concen: 5.003 ng

RT: 10.616 min Scan# 1449

Delta R.T. 0.000 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

Instrument :

BNA\_F

ClientSampleId :

TP-4

Tgt Ion: 77 Resp: 116513

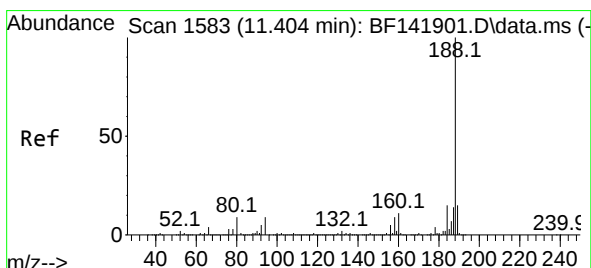
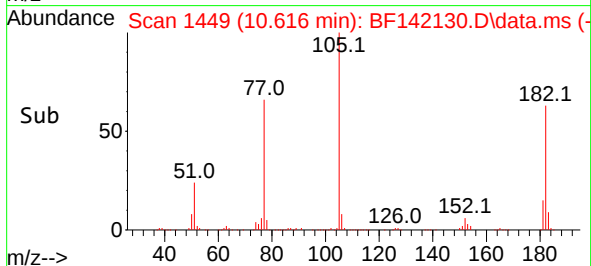
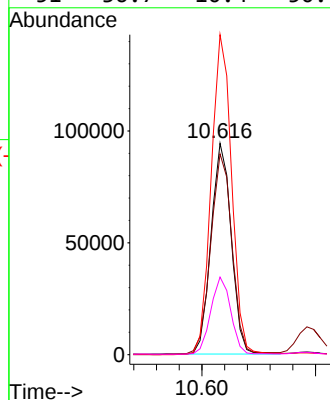
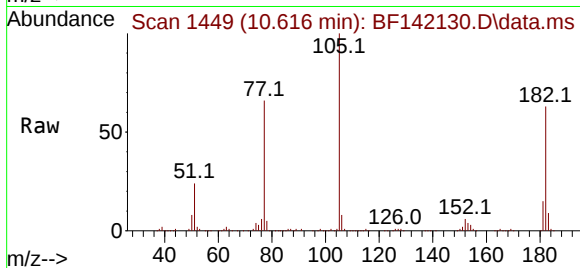
Ion Ratio Lower Upper

77 100

182 95.0 6.6 46.6#

105 151.4 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: BF142130.D

Acq: 27 Mar 2025 17:46

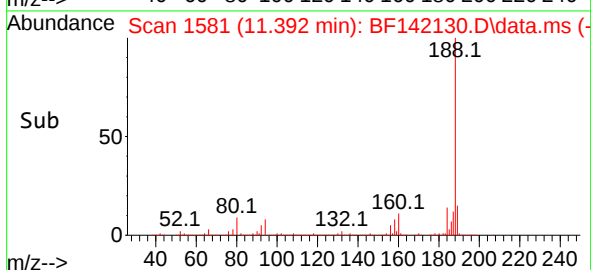
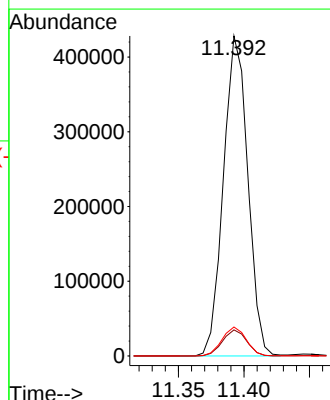
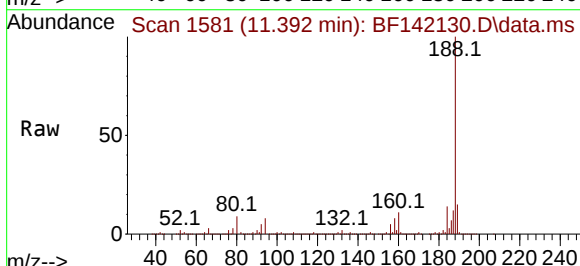
Tgt Ion:188 Resp: 553617

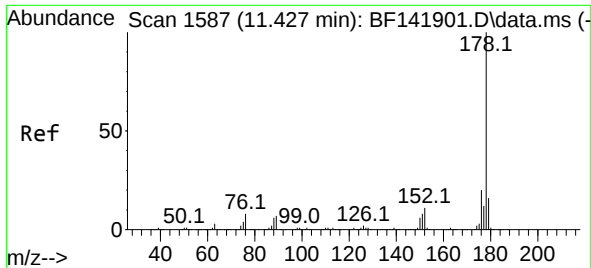
Ion Ratio Lower Upper

188 100

94 8.2 6.8 10.2

80 9.1 7.6 11.4

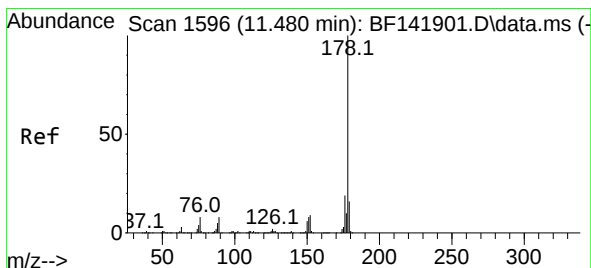
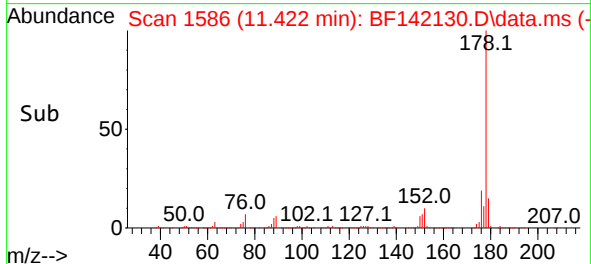
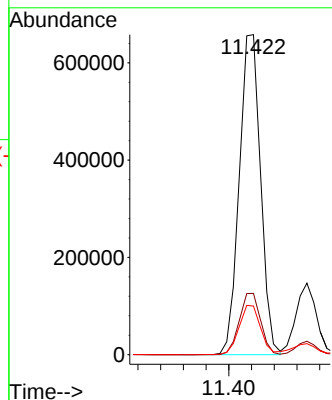
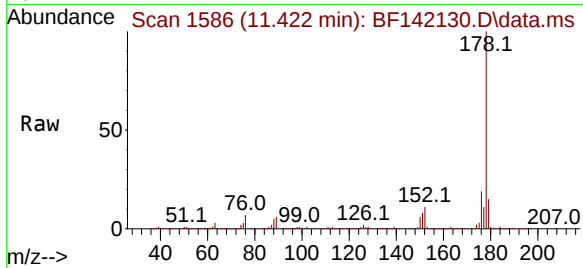




#71  
Phenanthrene  
Concen: 28.675 ng  
RT: 11.422 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

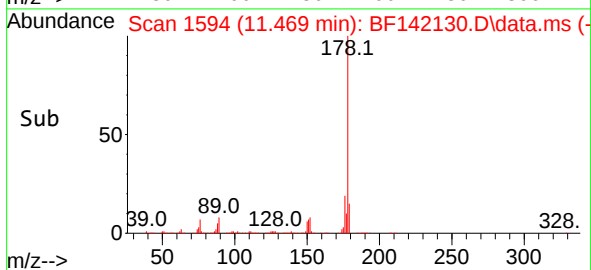
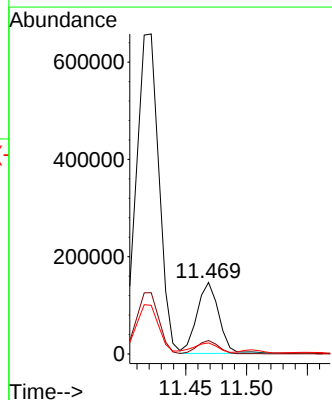
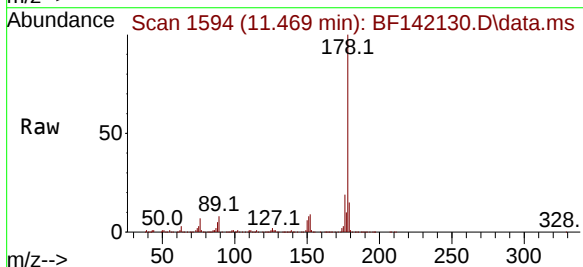
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

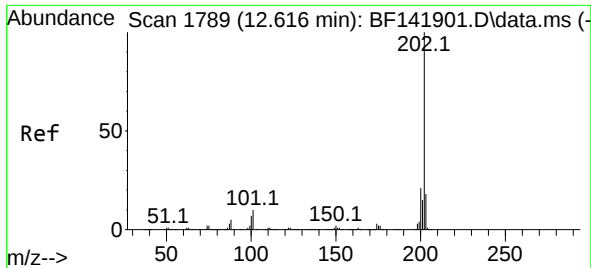
Tgt Ion:178 Resp: 857462  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.8 23.8  
179 15.2 12.6 19.0



#72  
Anthracene  
Concen: 6.098 ng  
RT: 11.469 min Scan# 1594  
Delta R.T. -0.012 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion:178 Resp: 182934  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.1 22.7  
179 15.4 12.6 19.0

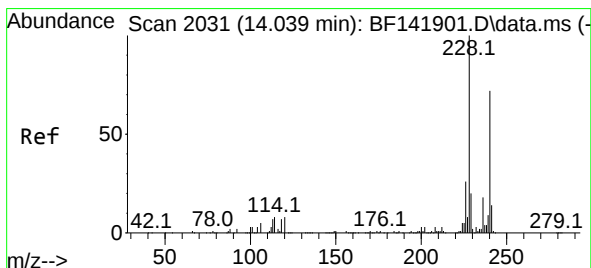
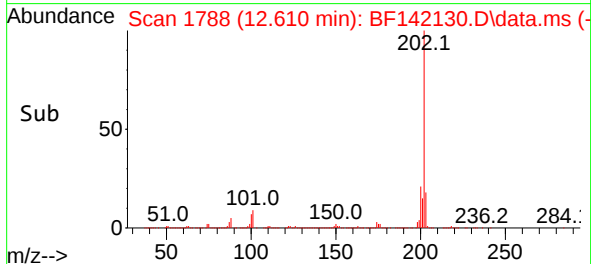
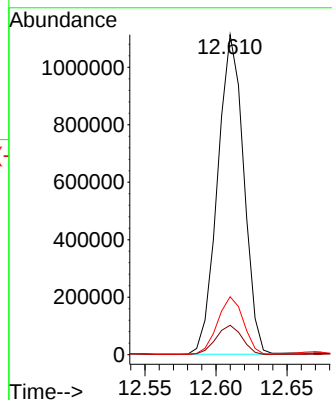
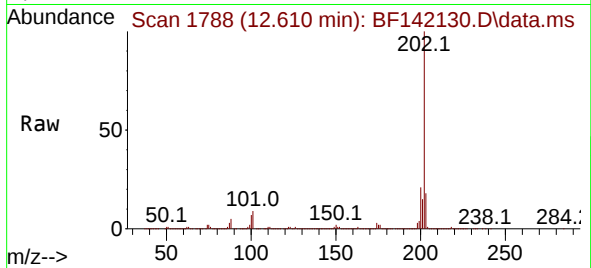




#75  
Fluoranthene  
Concen: 44.867 ng  
RT: 12.610 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

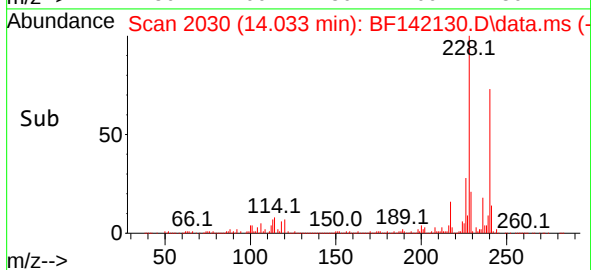
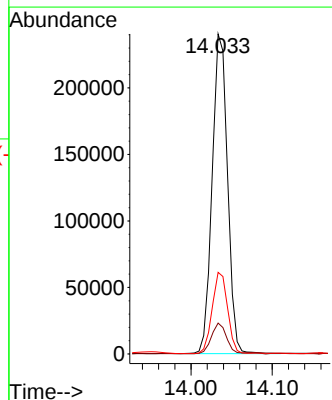
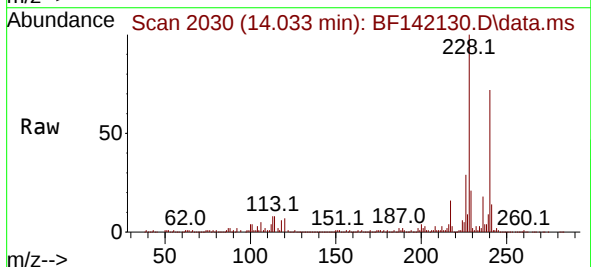
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

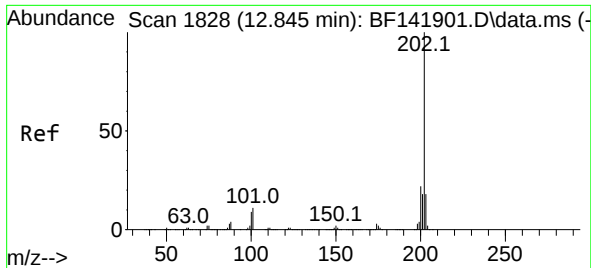
Tgt Ion:202 Resp: 1423159  
Ion Ratio Lower Upper  
202 100  
101 9.2 0.0 29.7  
203 18.1 0.0 37.8



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.033 min Scan# 2030  
Delta R.T. -0.006 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion:240 Resp: 314890  
Ion Ratio Lower Upper  
240 100  
120 9.7 8.4 12.6  
236 25.5 20.5 30.7

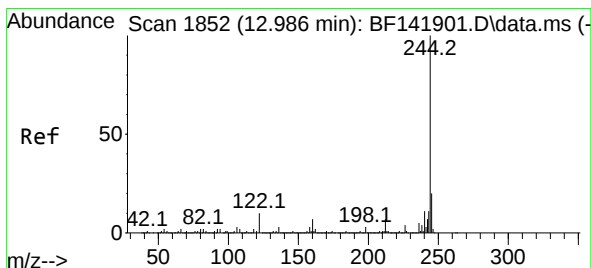
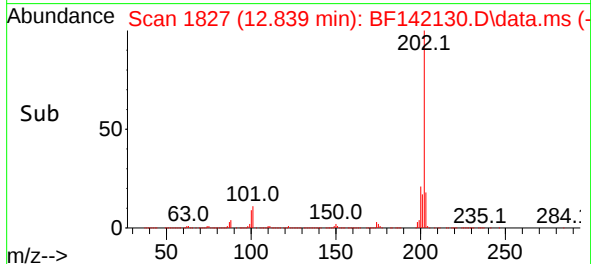
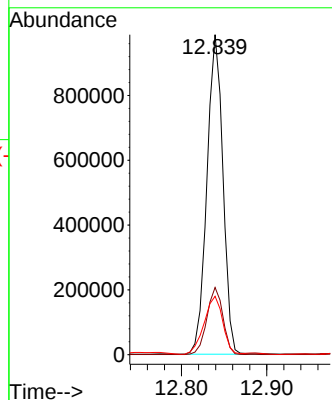
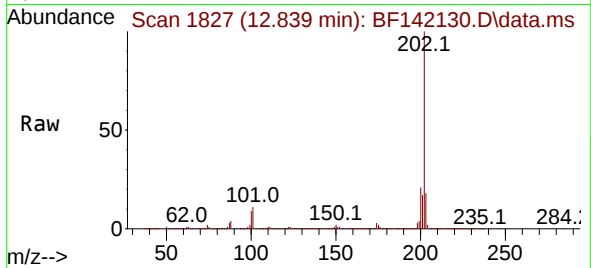




#78  
Pyrene  
Concen: 47.308 ng  
RT: 12.839 min Scan# 1827  
Delta R.T. -0.006 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

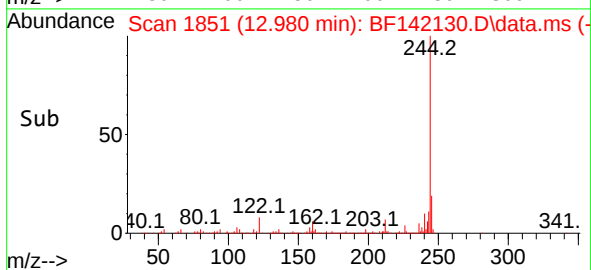
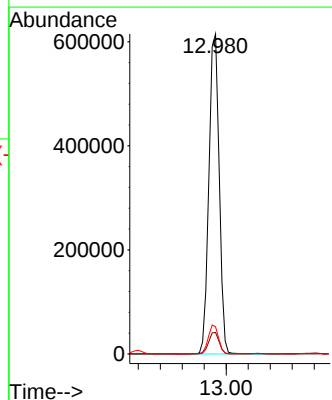
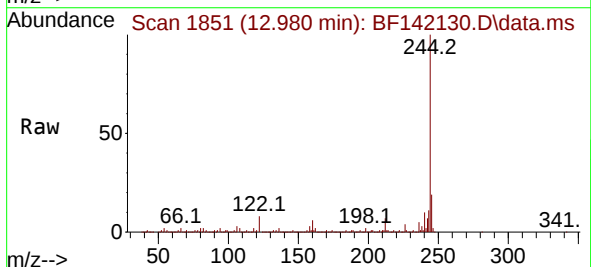
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

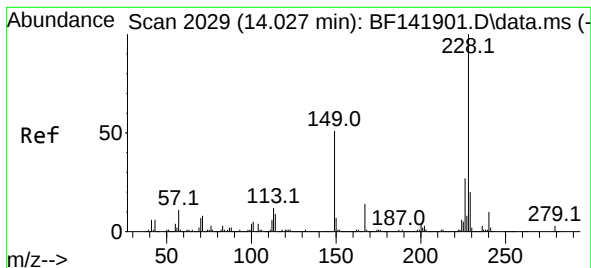
Tgt Ion:202 Resp: 1288584  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.3 25.9  
203 18.3 14.4 21.6



#79  
Terphenyl-d14  
Concen: 37.475 ng  
RT: 12.980 min Scan# 1851  
Delta R.T. -0.006 min  
Lab File: BF142130.D  
Acq: 27 Mar 2025 17:46

Tgt Ion:244 Resp: 798175  
Ion Ratio Lower Upper  
244 100  
212 6.7 6.0 9.0  
122 8.5 7.7 11.5





#81

Benzo(a)anthracene

Concen: 35.028 ng

RT: 14.027 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

Instrument :

BNA\_F

ClientSampleId :

TP-4

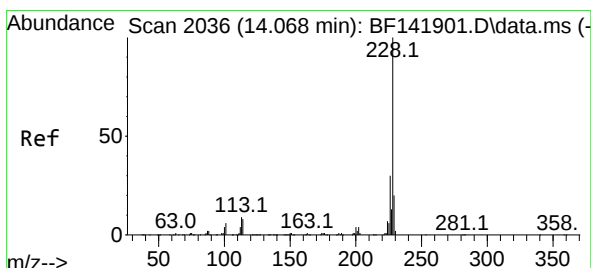
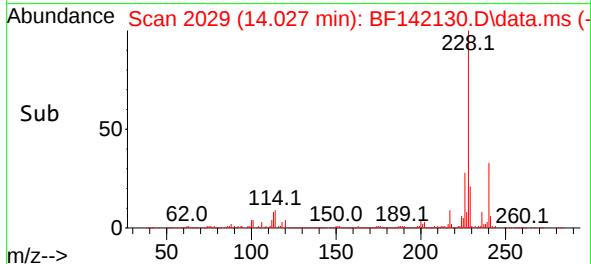
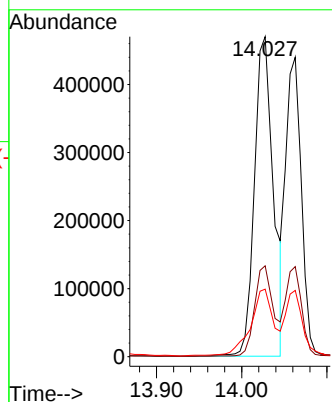
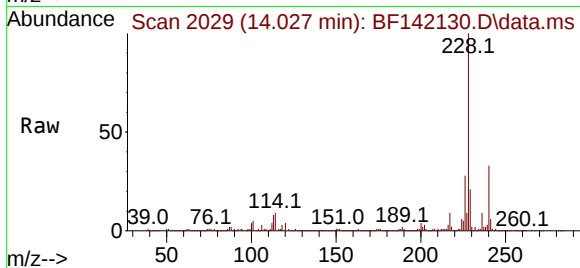
Tgt Ion:228 Resp: 723783

Ion Ratio Lower Upper

228 100

226 28.4 21.8 32.8

229 21.1 16.0 24.0



#83

Chrysene

Concen: 29.666 ng

RT: 14.063 min Scan# 2035

Delta R.T. -0.006 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

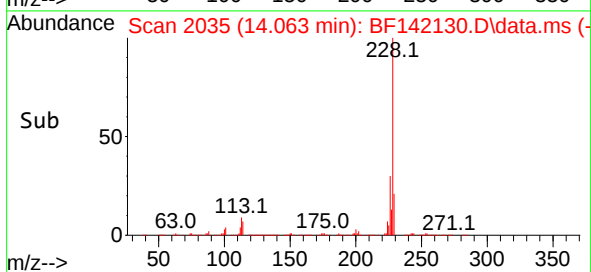
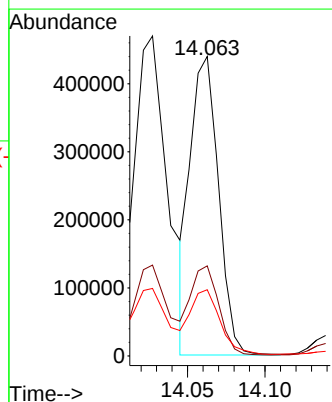
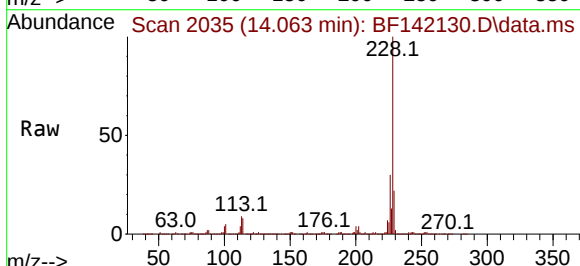
Tgt Ion:228 Resp: 555659

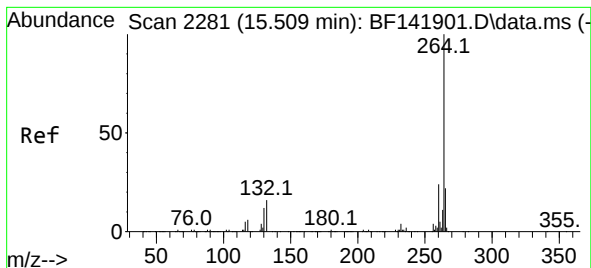
Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 22.1 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

Instrument :

BNA\_F

ClientSampleId :

TP-4

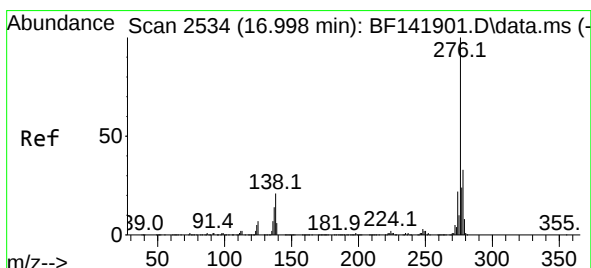
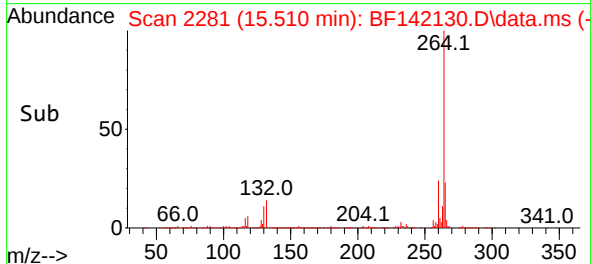
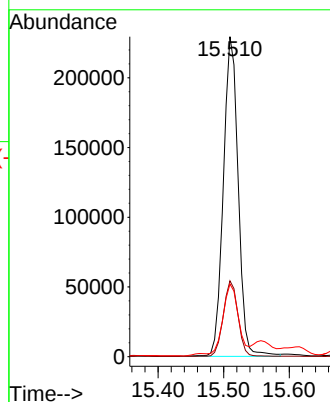
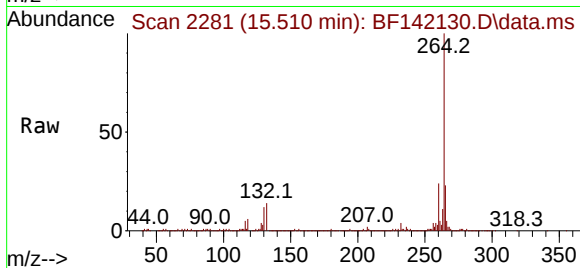
Tgt Ion:264 Resp: 359543

Ion Ratio Lower Upper

264 100

260 23.7 19.1 28.7

265 22.7 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.034 ng

RT: 16.992 min Scan# 2533

Delta R.T. -0.006 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

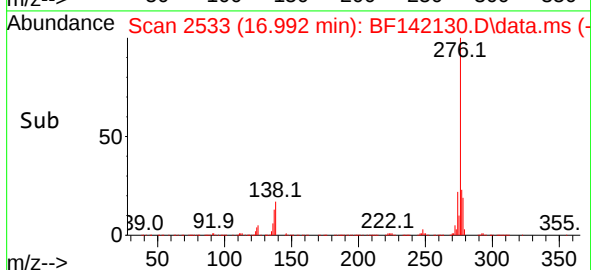
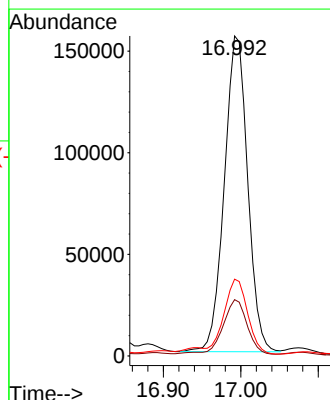
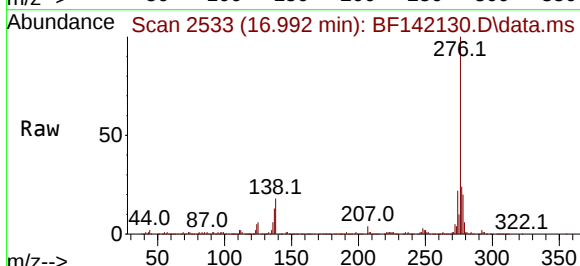
Tgt Ion:276 Resp: 326409

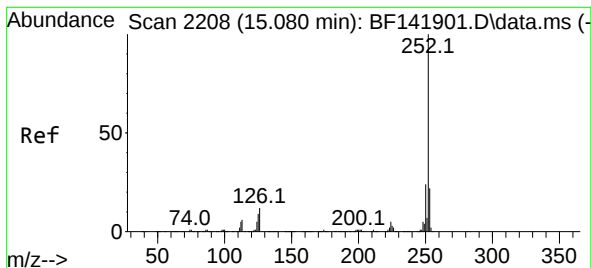
Ion Ratio Lower Upper

276 100

138 18.4 18.4 27.6

277 24.1 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 44.163 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.000 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

Instrument :

BNA\_F

ClientSampleId :

TP-4

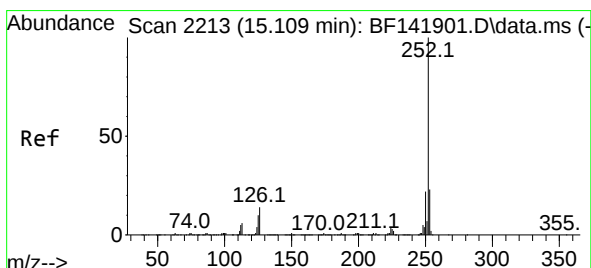
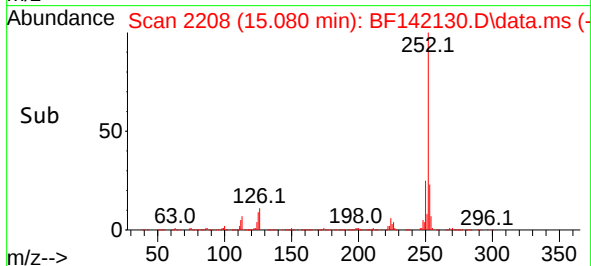
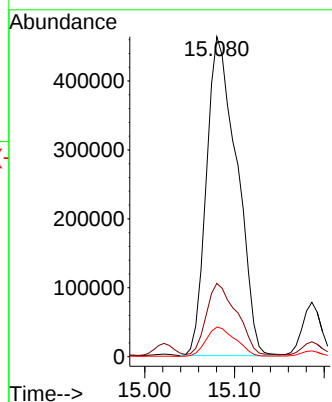
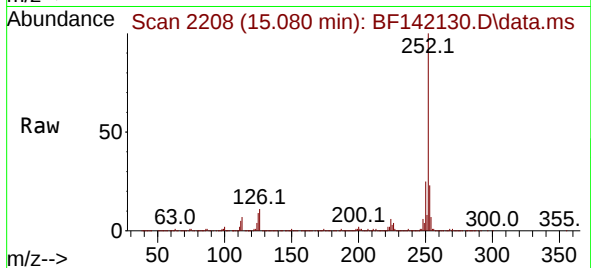
Tgt Ion:252 Resp: 1088252

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 9.3 7.0 10.4



#89

Benzo(k)fluoranthene

Concen: 51.606 ng

RT: 15.080 min Scan# 2208

Delta R.T. -0.029 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

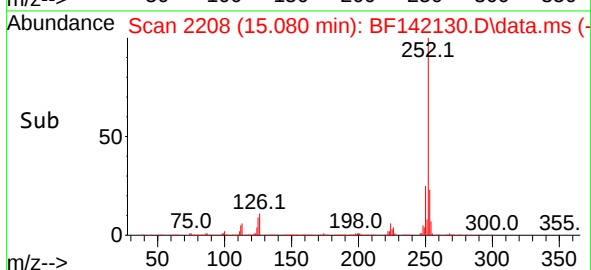
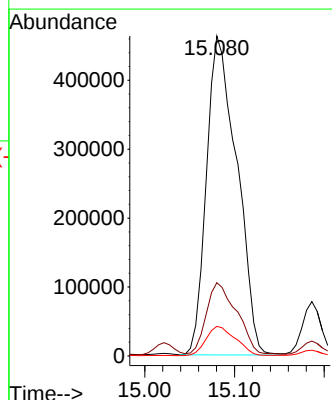
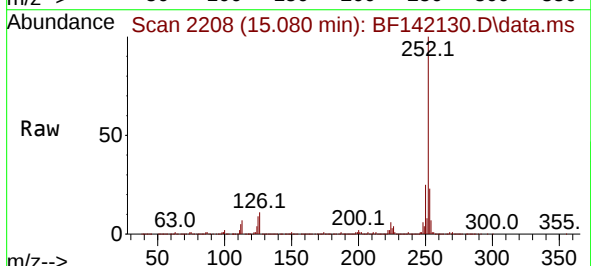
Tgt Ion:252 Resp: 1088252

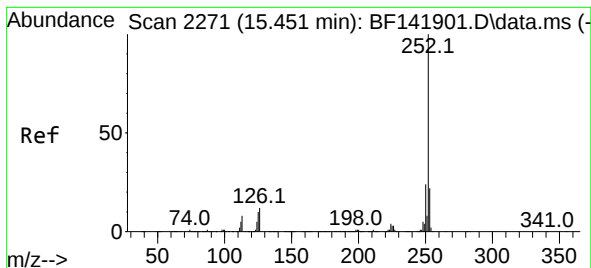
Ion Ratio Lower Upper

252 100

253 22.9 17.7 26.5

125 9.3 7.2 10.8





#90

Benzo(a)pyrene

Concen: 31.221 ng

RT: 15.451 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

Instrument :

BNA\_F

ClientSampleId :

TP-4

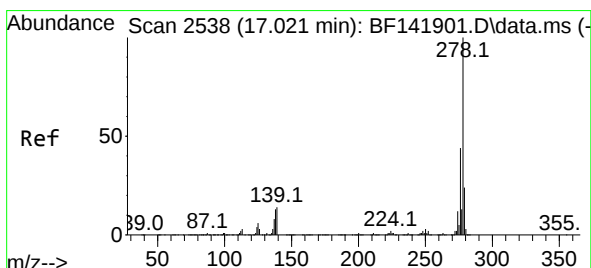
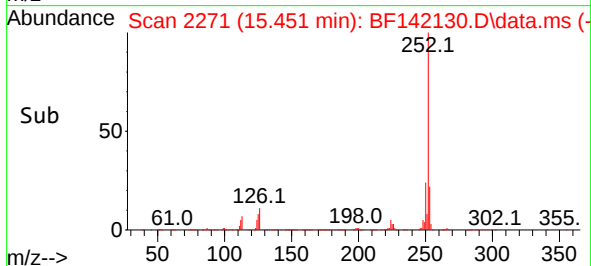
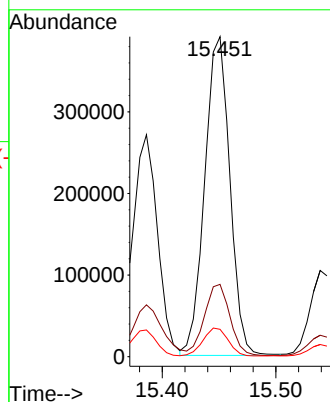
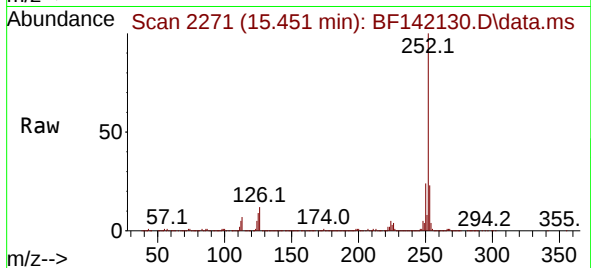
Tgt Ion:252 Resp: 601968

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

125 8.6 7.8 11.8



#91

Dibenzo(a,h)anthracene

Concen: 4.412 ng

RT: 17.004 min Scan# 2535

Delta R.T. -0.017 min

Lab File: BF142130.D

Acq: 27 Mar 2025 17:46

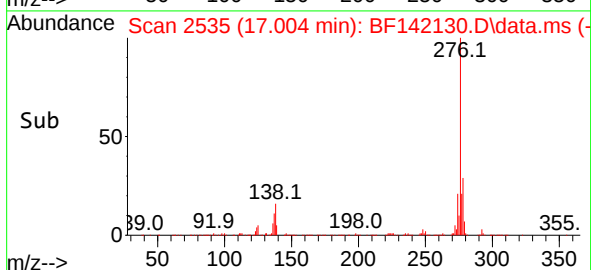
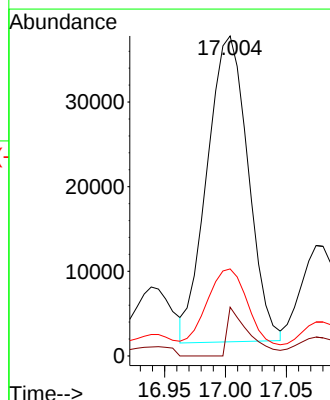
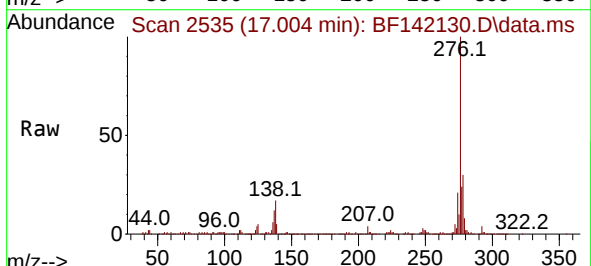
Tgt Ion:278 Resp: 84667

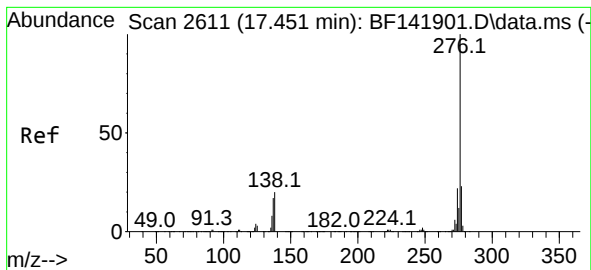
Ion Ratio Lower Upper

278 100

139 15.3 11.4 17.2

279 27.2 18.8 28.2





#92

Benzo(g,h,i)perylene

Concen: 15.674 ng

RT: 17.445 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142130.D

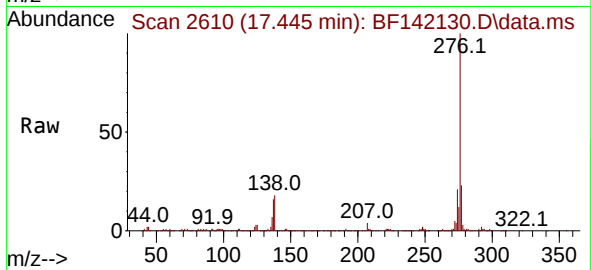
Acq: 27 Mar 2025 17:46

Instrument :

BNA\_F

ClientSampleId :

TP-4



Tgt Ion:276 Resp: 297230

Ion Ratio Lower Upper

276 100

277 23.0 18.7 28.1

138 17.8 15.8 23.8

