

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031425\  
 Data File : BF141967.D  
 Acq On : 14 Mar 2025 16:07  
 Operator : RC/JU  
 Sample : Q1549-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11978

Quant Time: Mar 14 16:58:36 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

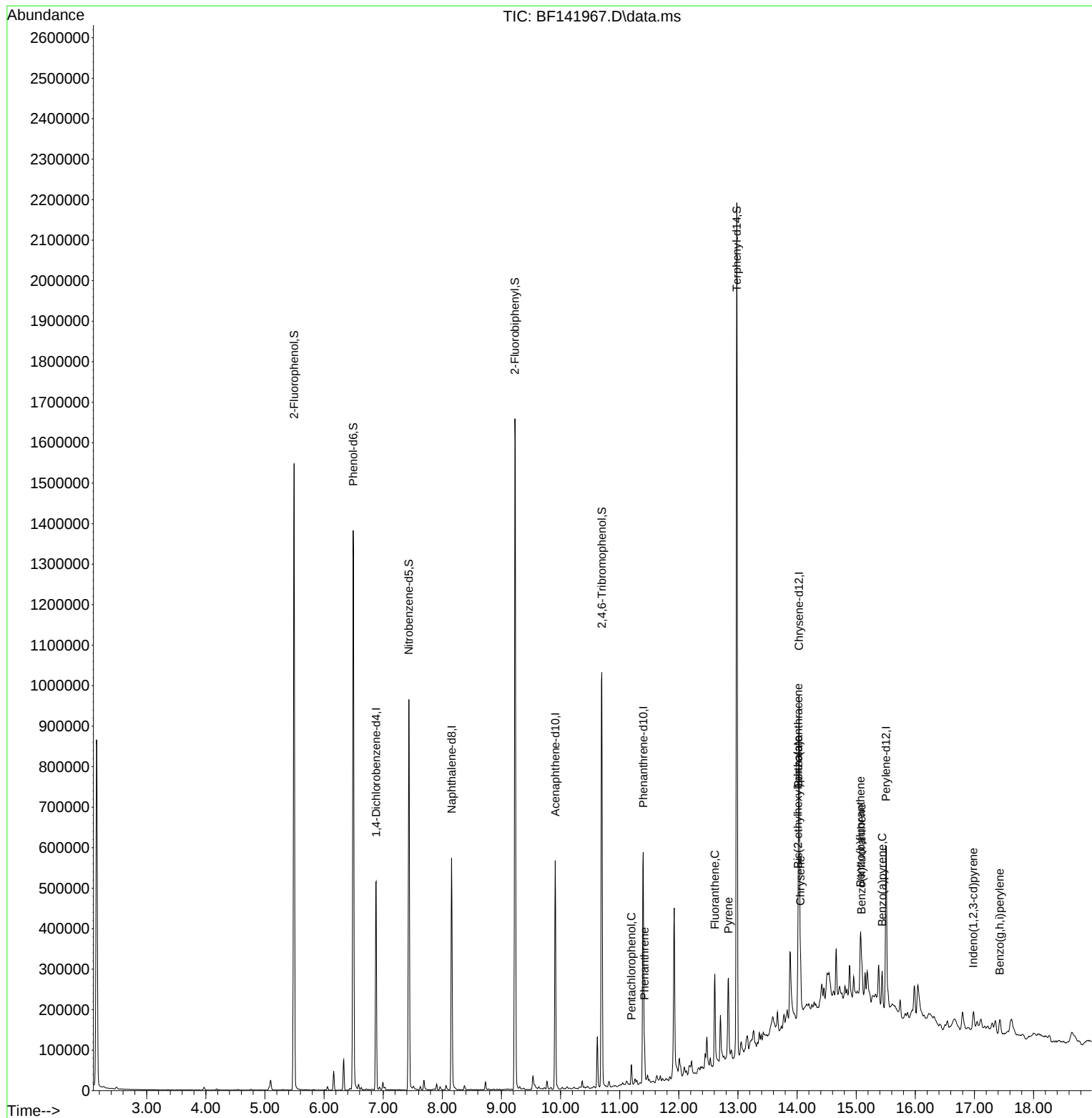
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 112706   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 365095   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.910  | 164  | 164947   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 297340   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.033 | 240  | 334585   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.504 | 264  | 249377   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.492  | 112  | 586691   | 86.878 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.492  | 99   | 661538   | 76.940 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 429422   | 66.191 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.698 | 330  | 186750   | 89.244 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.228  | 172  | 746926   | 68.867 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.980 | 244  | 1017218  | 44.949 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 70) Pentachlorophenol         | 11.198 | 266  | 7554     | 2.994  | ng    | 96       |
| 71) Phenanthrene              | 11.422 | 178  | 49709    | 3.095  | ng    | 99       |
| 75) Fluoranthene              | 12.610 | 202  | 123480   | 7.248  | ng    | 99       |
| 78) Pyrene                    | 12.839 | 202  | 119809   | 4.140  | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 74271m   | 3.383  | ng    |          |
| 83) Chrysene                  | 14.057 | 228  | 83268    | 4.184  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 14.015 | 149  | 38170    | 2.444  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.980 | 276  | 37129    | 2.302  | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 15.074 | 252  | 106082m  | 6.207  | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.092 | 252  | 31525m   | 2.155  | ng    |          |
| 90) Benzo(a)pyrene            | 15.439 | 252  | 57630    | 4.309  | ng    | # 96     |
| 92) Benzo(g,h,i)perylene      | 17.427 | 276  | 37977    | 2.887  | ng    | 95       |
| -----                         |        |      |          |        |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031425\  
Data File : BF141967.D  
Acq On : 14 Mar 2025 16:07  
Operator : RC/JU  
Sample : Q1549-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
72-11978

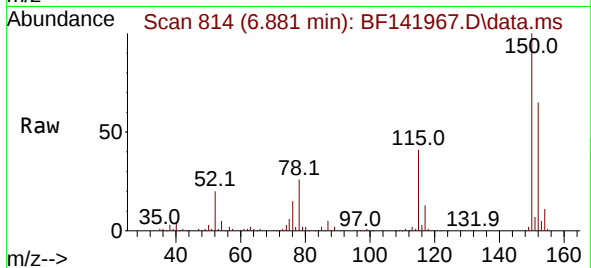
Quant Time: Mar 14 16:58:36 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 10 15:46:22 2025  
Response via : Initial Calibration



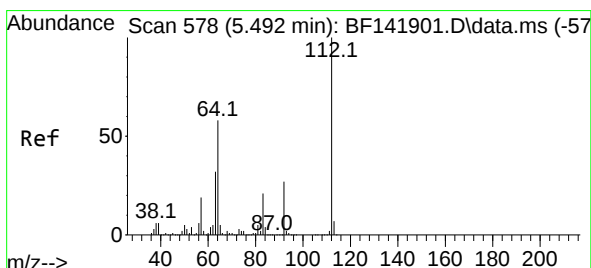
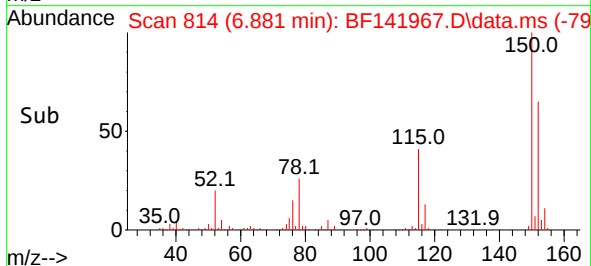
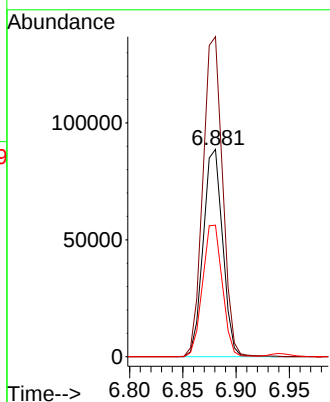


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 814  
Delta R.T. -0.000 min  
Lab File: BF141967.D  
Acq: 14 Mar 2025 16:07

Instrument :  
BNA\_F  
ClientSampleId :  
72-11978

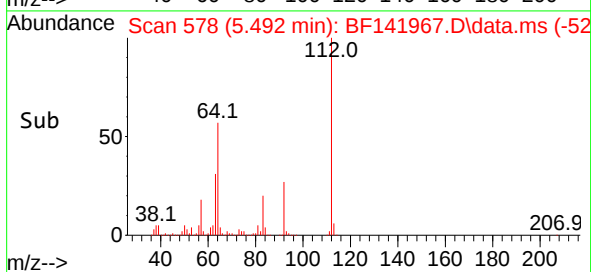
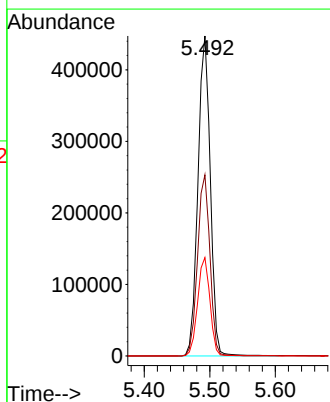
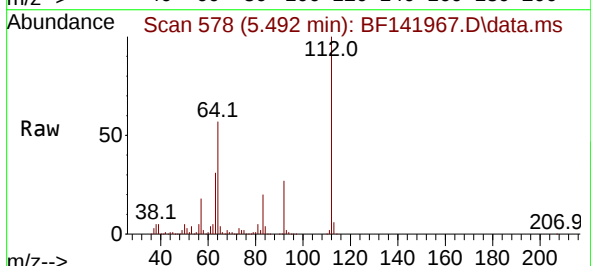


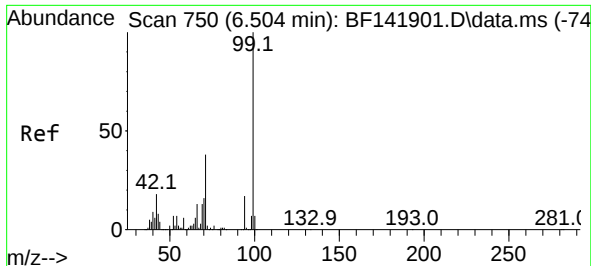
Tgt Ion:152 Resp: 112706  
Ion Ratio Lower Upper  
152 100  
150 154.4 127.4 191.2  
115 63.4 51.9 77.9



#5  
2-Fluorophenol  
Concen: 86.878 ng  
RT: 5.492 min Scan# 578  
Delta R.T. 0.000 min  
Lab File: BF141967.D  
Acq: 14 Mar 2025 16:07

Tgt Ion:112 Resp: 586691  
Ion Ratio Lower Upper  
112 100  
64 56.6 46.5 69.7  
63 30.7 25.4 38.2

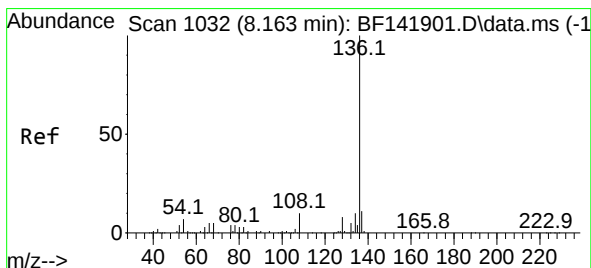
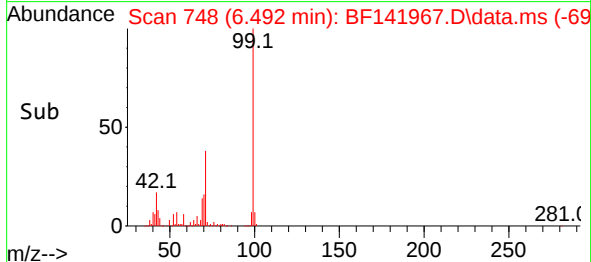
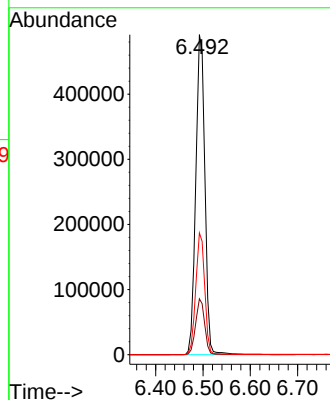
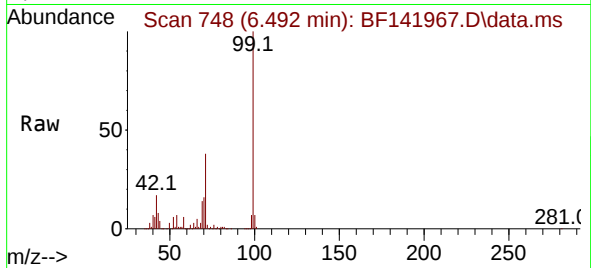




#7  
Phenol-d6  
Concen: 76.940 ng  
RT: 6.492 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF141967.D  
Acq: 14 Mar 2025 16:07

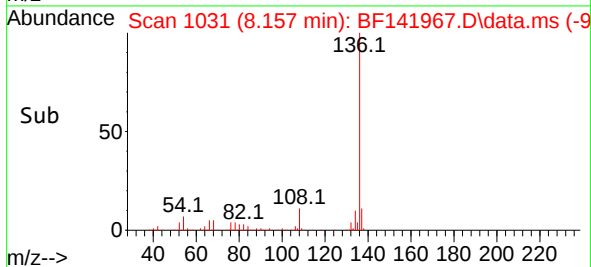
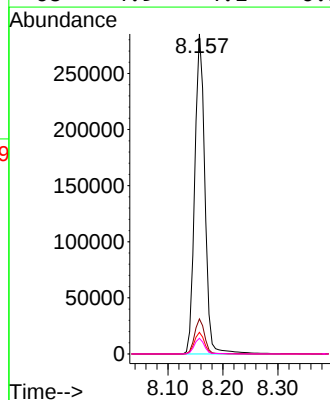
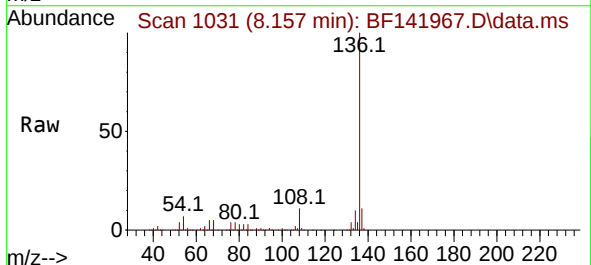
Instrument :  
BNA\_F  
ClientSampleId :  
72-11978

Tgt Ion: 99 Resp: 661538  
Ion Ratio Lower Upper  
99 100  
42 17.4 14.6 21.8  
71 38.1 30.8 46.2



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: BF141967.D  
Acq: 14 Mar 2025 16:07

Tgt Ion:136 Resp: 365095  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.8 13.2  
54 6.8 5.8 8.8  
68 4.9 4.1 6.1

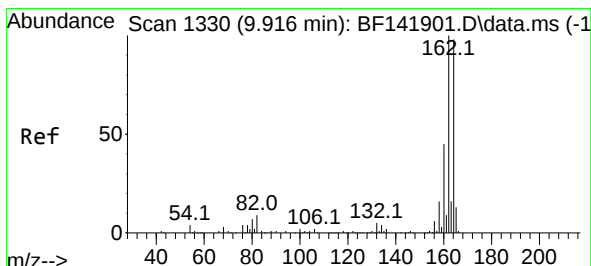
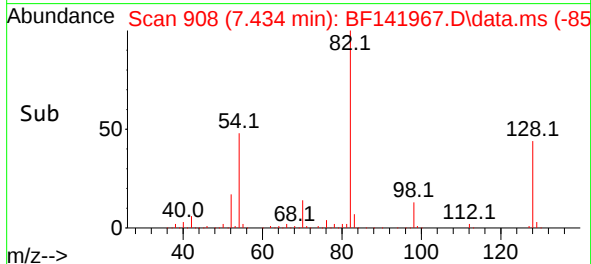
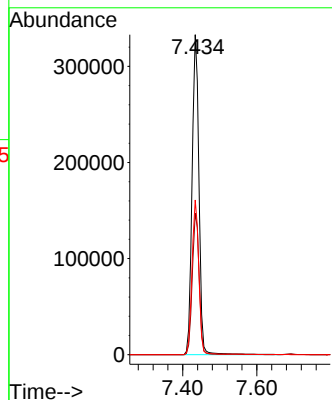
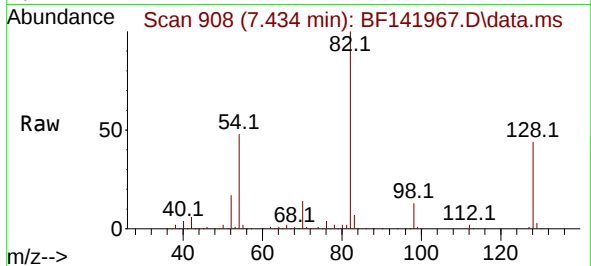




#23  
 Nitrobenzene-d5  
 Concen: 66.191 ng  
 RT: 7.434 min Scan# 90  
 Delta R.T. -0.012 min  
 Lab File: BF141967.D  
 Acq: 14 Mar 2025 16:07

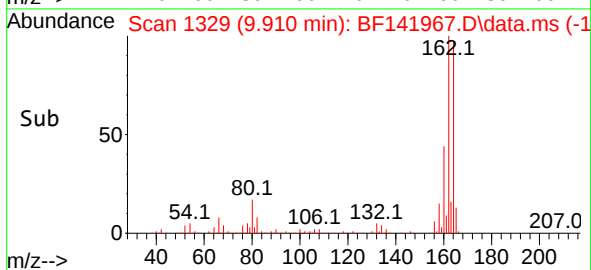
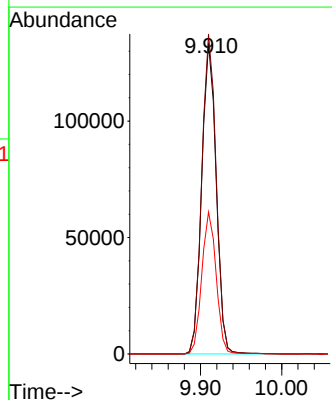
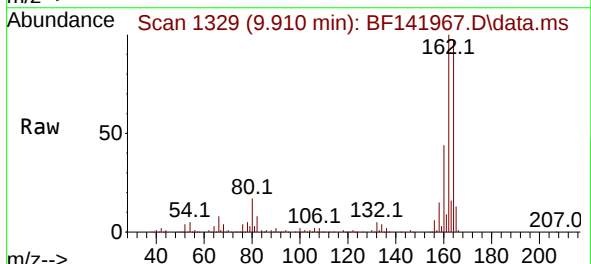
Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11978

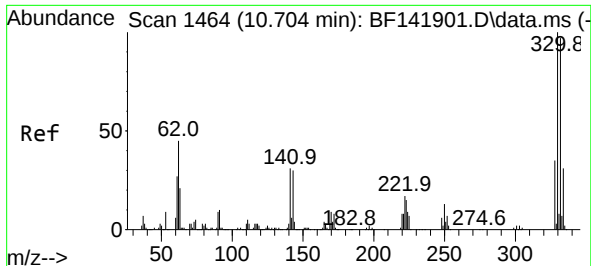
Tgt Ion: 82 Resp: 429422  
 Ion Ratio Lower Upper  
 82 100  
 128 44.3 36.0 54.0  
 54 48.4 39.6 59.4



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.910 min Scan# 1329  
 Delta R.T. -0.006 min  
 Lab File: BF141967.D  
 Acq: 14 Mar 2025 16:07

Tgt Ion:164 Resp: 164947  
 Ion Ratio Lower Upper  
 164 100  
 162 103.0 81.8 122.6  
 160 45.7 36.7 55.1



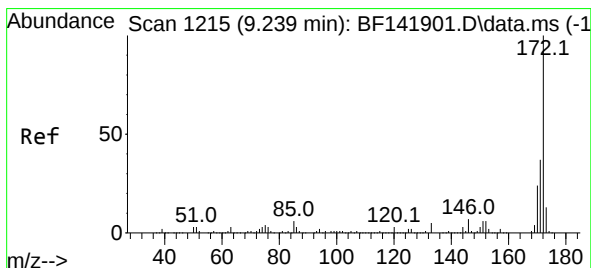
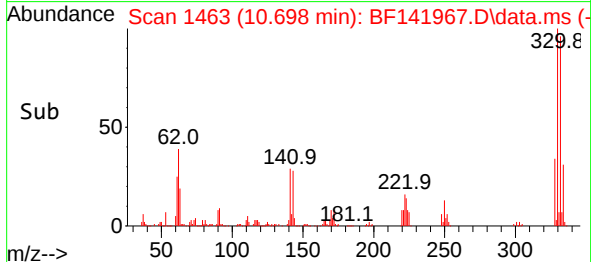
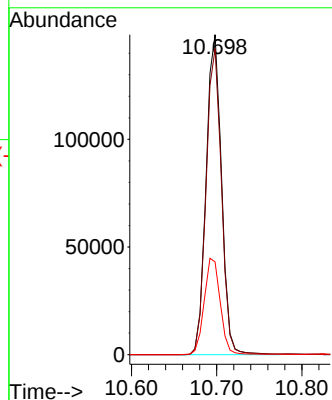
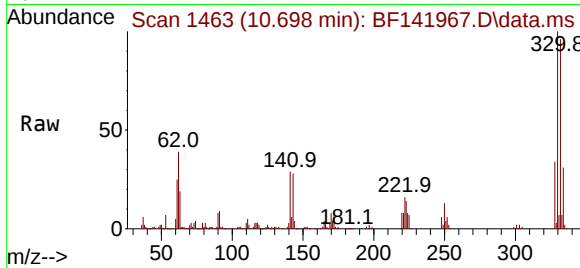


#42  
 2,4,6-Tribromophenol  
 Concen: 89.244 ng  
 RT: 10.698 min Scan# 1463  
 Delta R.T. -0.006 min  
 Lab File: BF141967.D  
 Acq: 14 Mar 2025 16:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11978

Tgt Ion: 330 Resp: 186750  

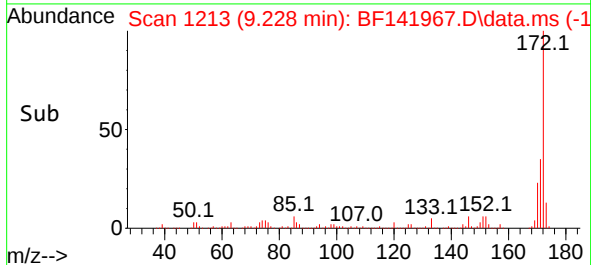
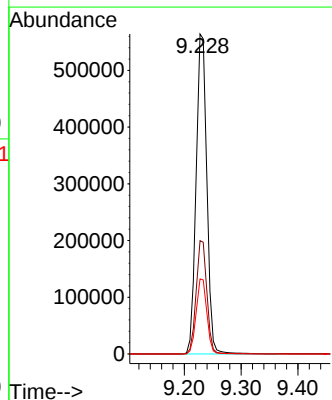
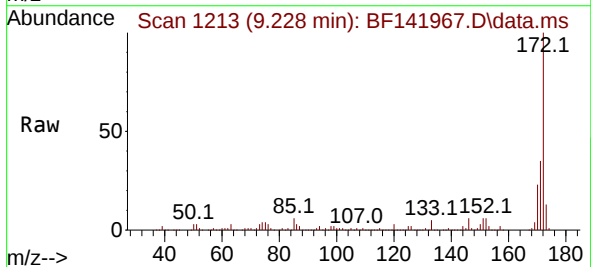
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.1  | 77.6  | 116.4 |
| 141 | 31.6  | 24.7  | 37.1  |

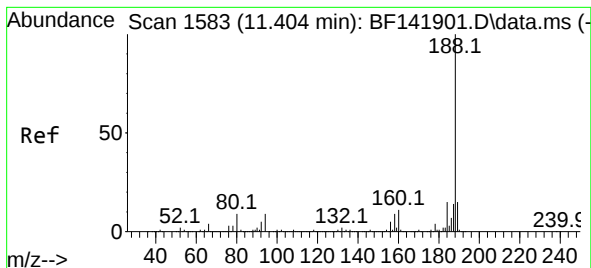


#45  
 2-Fluorobiphenyl  
 Concen: 68.867 ng  
 RT: 9.228 min Scan# 1213  
 Delta R.T. -0.012 min  
 Lab File: BF141967.D  
 Acq: 14 Mar 2025 16:07

Tgt Ion: 172 Resp: 746926  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.4  | 29.3  | 43.9  |
| 170 | 23.5  | 19.4  | 29.0  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

Instrument :

BNA\_F

ClientSampleId :

72-11978

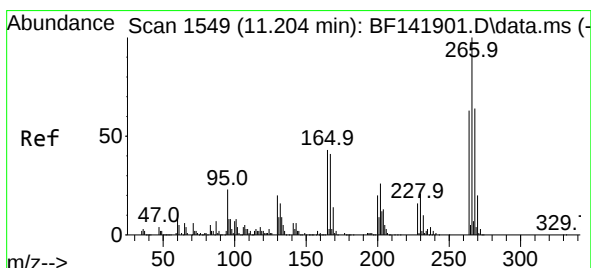
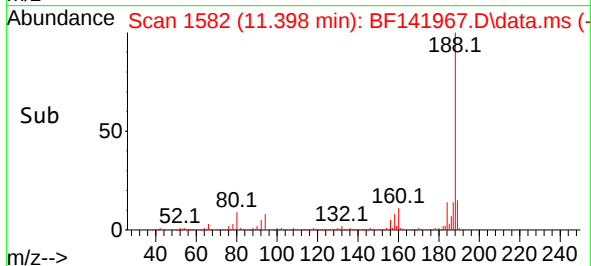
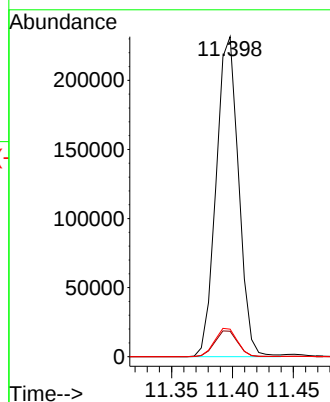
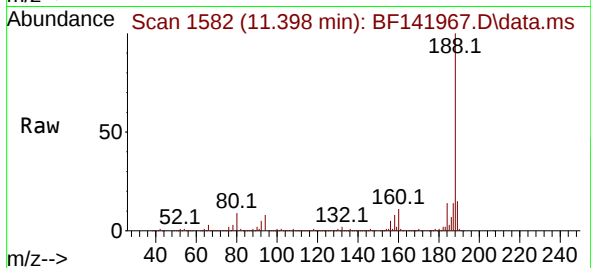
Tgt Ion:188 Resp: 297340

Ion Ratio Lower Upper

188 100

94 7.9 6.8 10.2

80 8.6 7.6 11.4



#70

Pentachlorophenol

Concen: 2.994 ng

RT: 11.198 min Scan# 1548

Delta R.T. -0.006 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

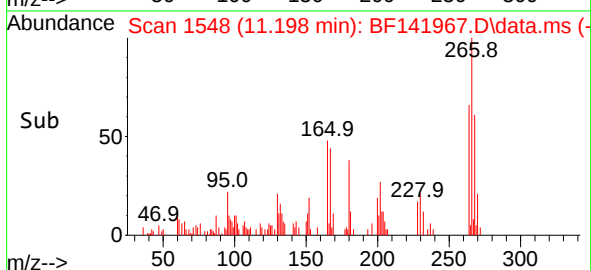
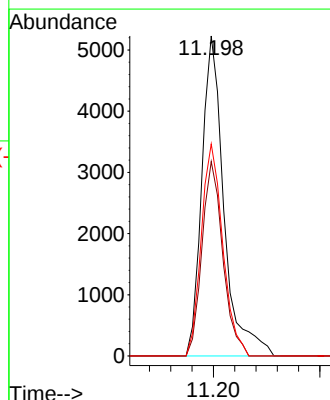
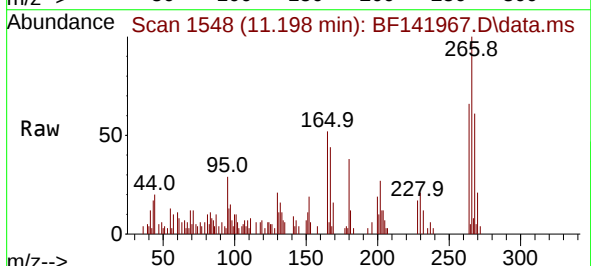
Tgt Ion:266 Resp: 7554

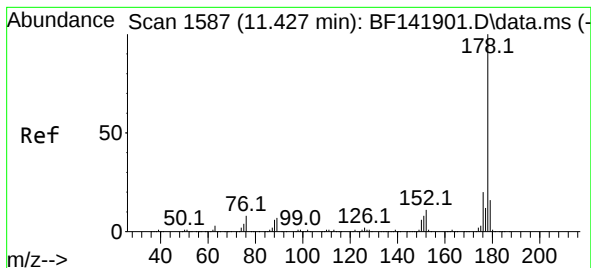
Ion Ratio Lower Upper

266 100

268 60.8 51.0 76.6

264 66.3 50.2 75.2





#71

Phenanthrene

Concen: 3.095 ng

RT: 11.422 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

Instrument :

BNA\_F

ClientSampleId :

72-11978

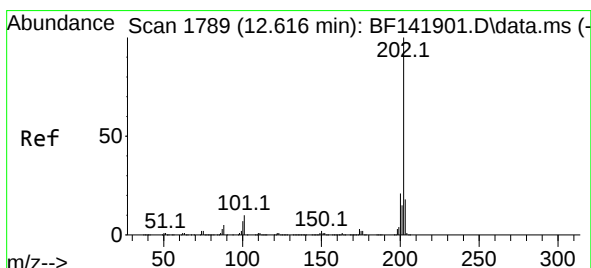
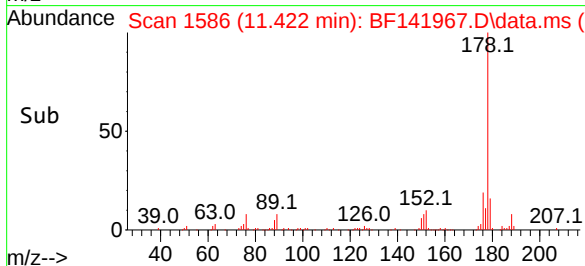
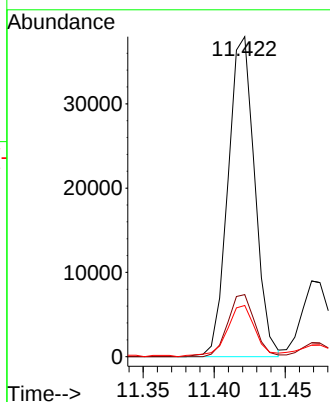
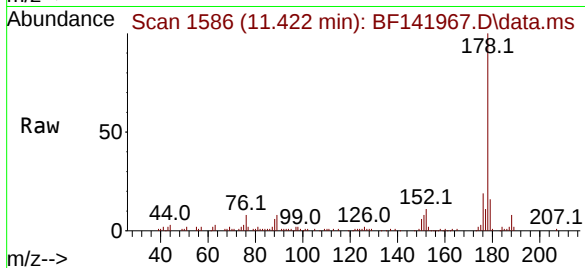
Tgt Ion:178 Resp: 49709

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

179 16.0 12.6 19.0



#75

Fluoranthene

Concen: 7.248 ng

RT: 12.610 min Scan# 1788

Delta R.T. -0.006 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

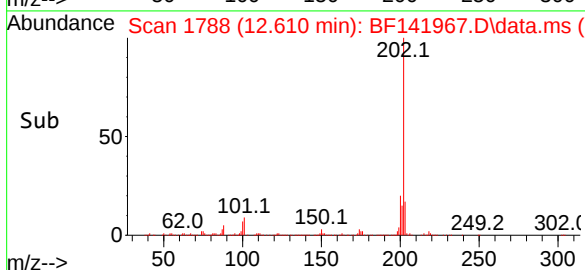
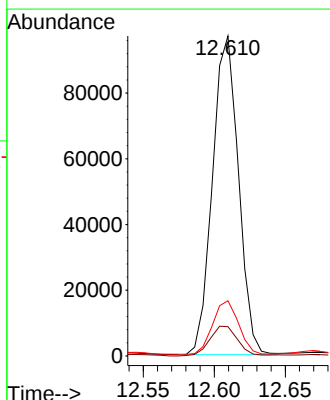
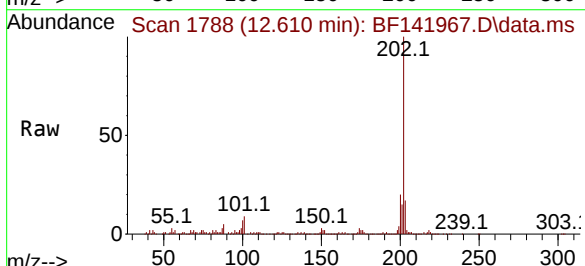
Tgt Ion:202 Resp: 123480

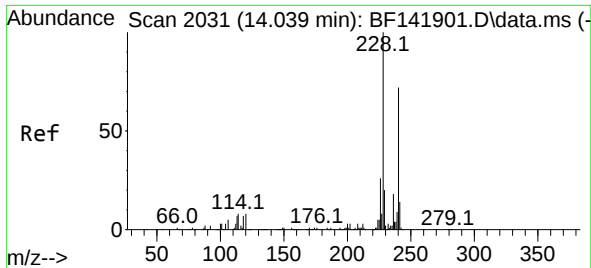
Ion Ratio Lower Upper

202 100

101 9.2 0.0 29.7

203 17.3 0.0 37.8

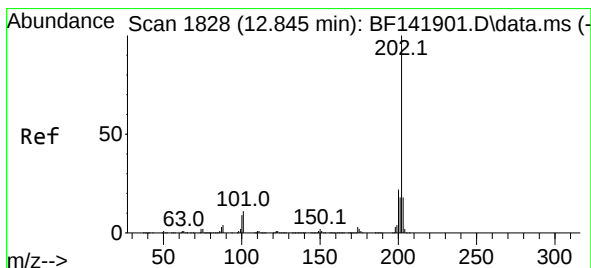
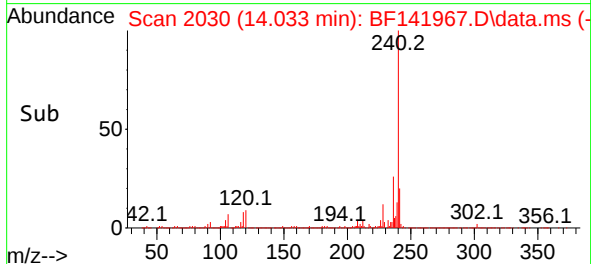
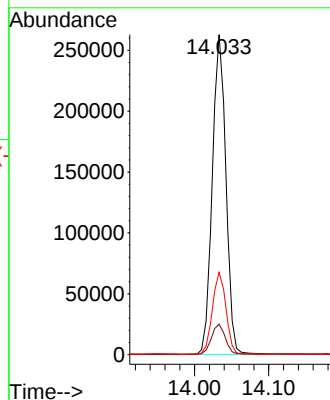
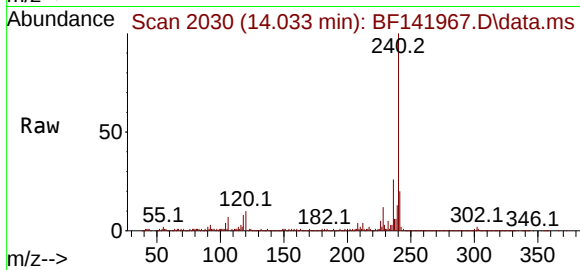




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.033 min Scan# 2031  
Delta R.T. -0.006 min  
Lab File: BF141967.D  
Acq: 14 Mar 2025 16:07

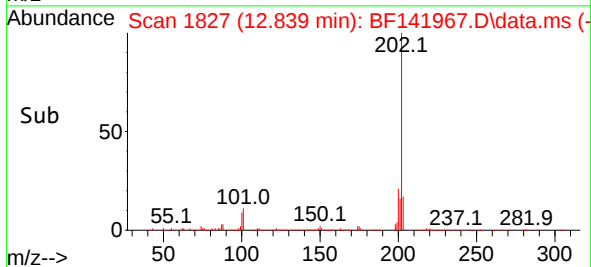
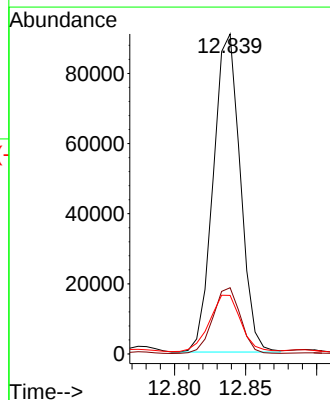
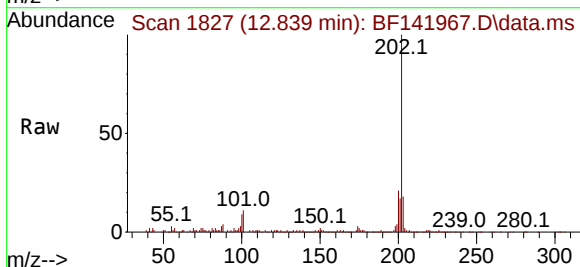
Instrument :  
BNA\_F  
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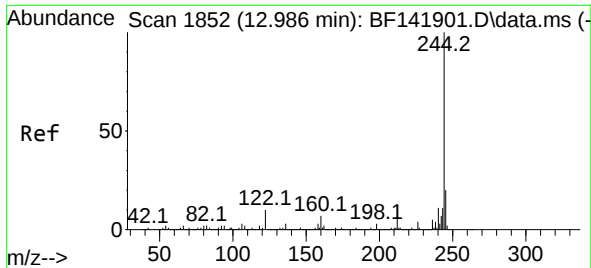
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Ion Ratio Lower Upper  
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120 9.5 8.4 12.6  
236 25.7 20.5 30.7



#78  
Pyrene  
Concen: 4.140 ng  
RT: 12.839 min Scan# 1827  
Delta R.T. -0.006 min  
Lab File: BF141967.D  
Acq: 14 Mar 2025 16:07

Tgt Ion:202 Resp: 119809  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.3 25.9  
203 18.3 14.4 21.6

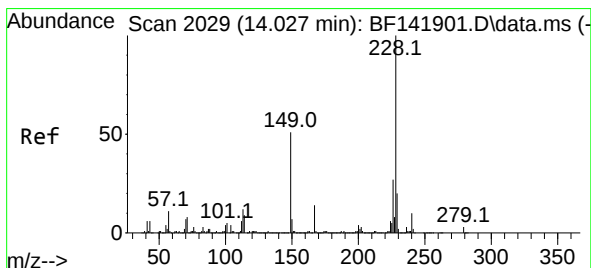
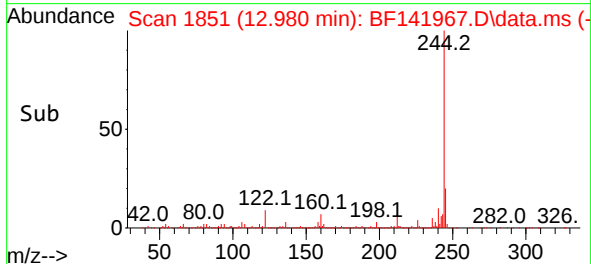
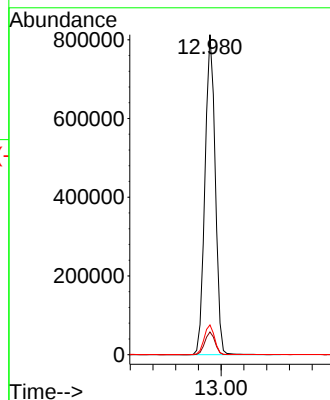
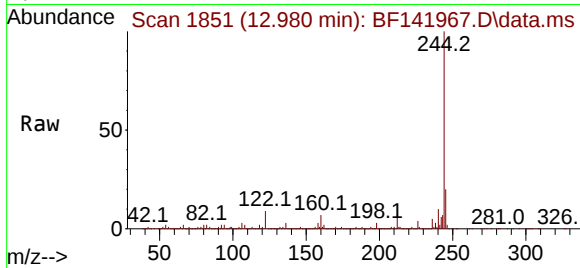




#79  
 Terphenyl-d14  
 Concen: 44.949 ng  
 RT: 12.980 min Scan# 1852  
 Delta R.T. -0.006 min  
 Lab File: BF141967.D  
 Acq: 14 Mar 2025 16:07

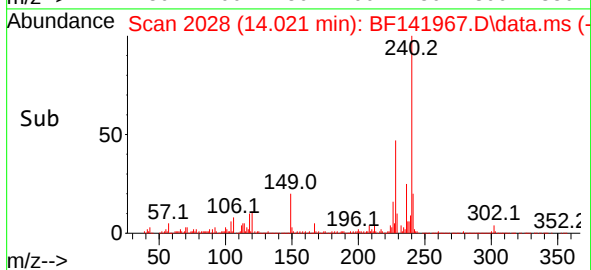
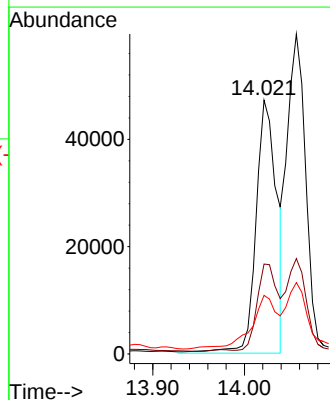
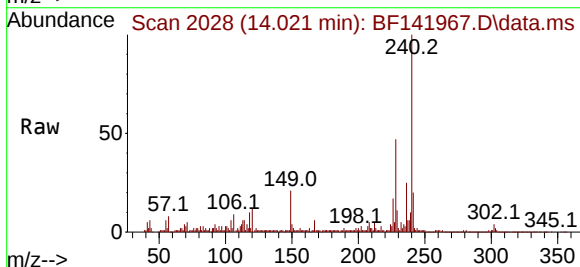
Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11978

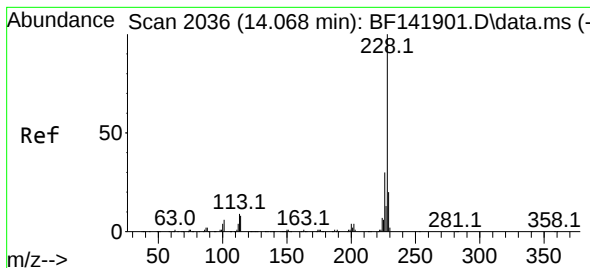
Tgt Ion:244 Resp: 1017218  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.0 9.0  
 122 9.3 7.7 11.5



#81  
 Benzo(a)anthracene  
 Concen: 3.383 ng m  
 RT: 14.021 min Scan# 2028  
 Delta R.T. -0.006 min  
 Lab File: BF141967.D  
 Acq: 14 Mar 2025 16:07

Tgt Ion:228 Resp: 74271  
 Ion Ratio Lower Upper  
 228 100  
 226 35.5 21.8 32.8#  
 229 23.1 16.0 24.0





#83

Chrysene

Concen: 4.184 ng

RT: 14.057 min Scan# 2036

Delta R.T. -0.012 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

Instrument :

BNA\_F

ClientSampleId :

72-11978

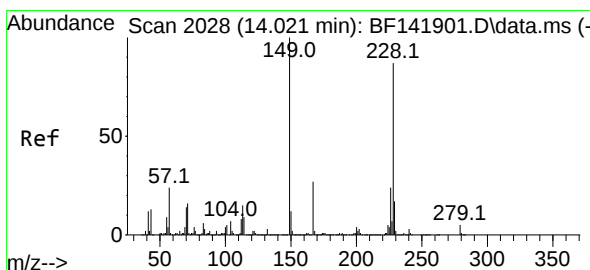
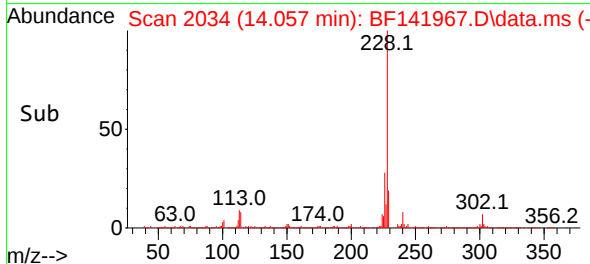
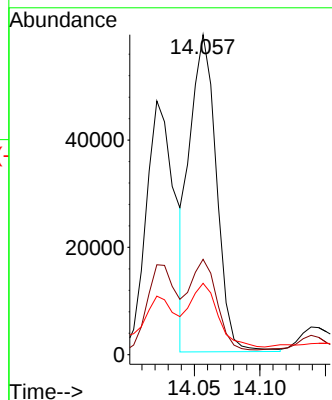
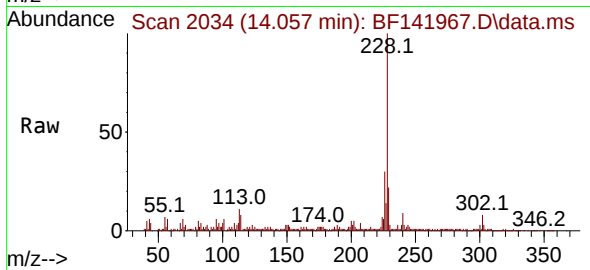
Tgt Ion:228 Resp: 83268

Ion Ratio Lower Upper

228 100

226 29.8 24.1 36.1

229 22.3 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.444 ng

RT: 14.015 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

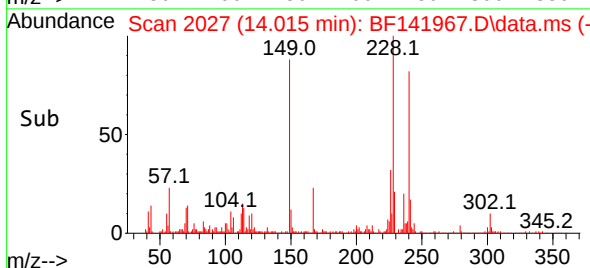
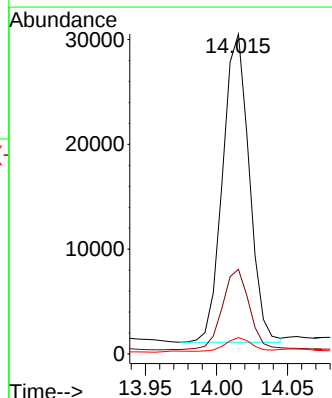
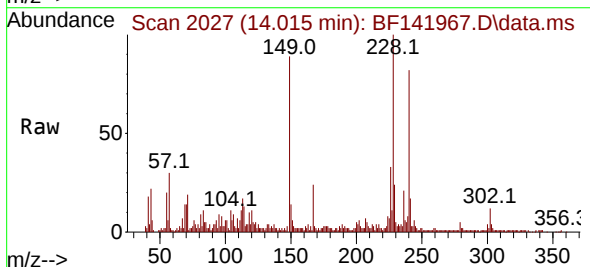
Tgt Ion:149 Resp: 38170

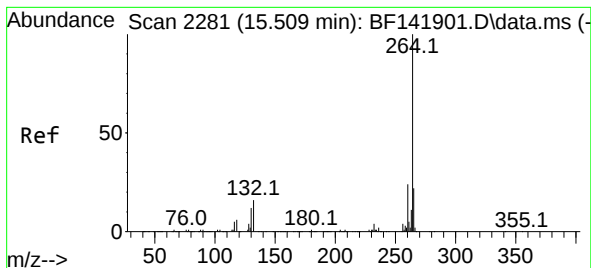
Ion Ratio Lower Upper

149 100

167 26.5 21.4 32.0

279 5.1 3.8 5.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

Instrument :

BNA\_F

ClientSampleId :

72-11978

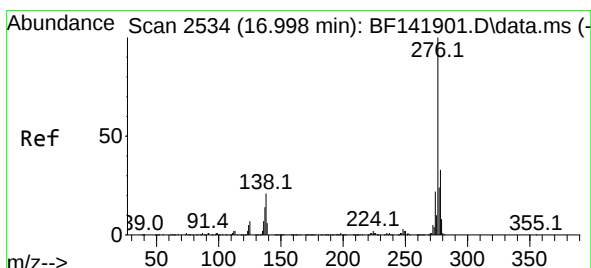
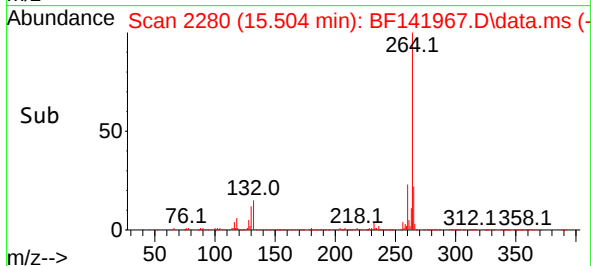
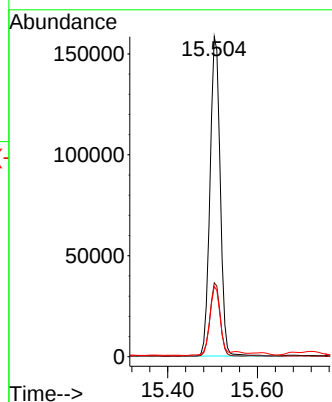
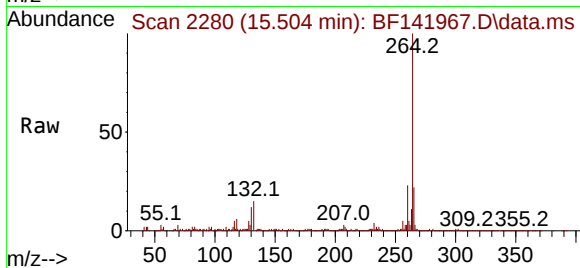
Tgt Ion:264 Resp: 249377

Ion Ratio Lower Upper

264 100

260 23.1 19.1 28.7

265 21.9 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.302 ng

RT: 16.980 min Scan# 2531

Delta R.T. -0.018 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

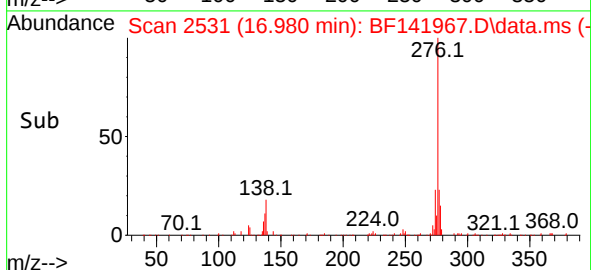
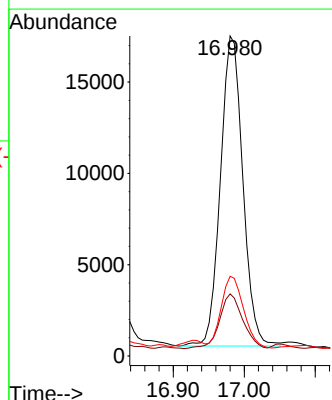
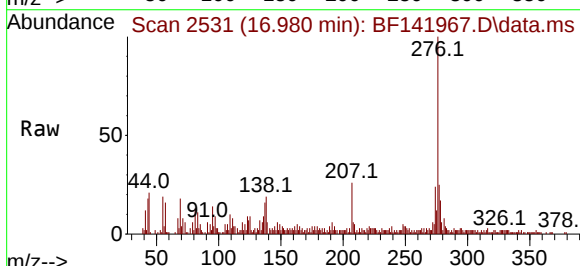
Tgt Ion:276 Resp: 37129

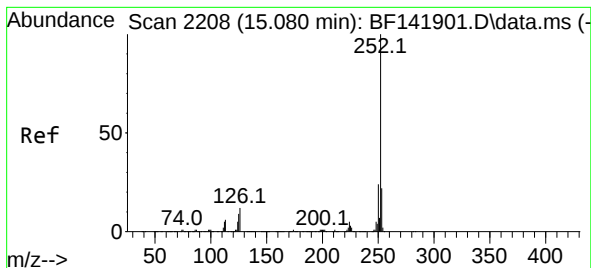
Ion Ratio Lower Upper

276 100

138 18.3 18.4 27.6#

277 23.2 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 6.207 ng m

RT: 15.074 min Scan# 2110

Delta R.T. -0.006 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

Instrument :

BNA\_F

ClientSampleId :

72-11978

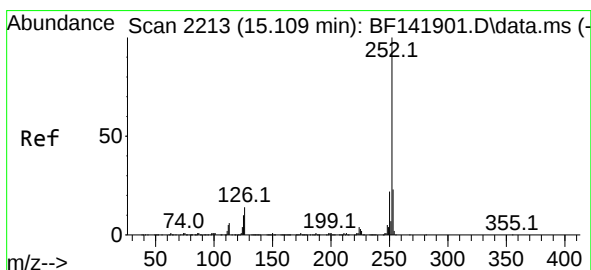
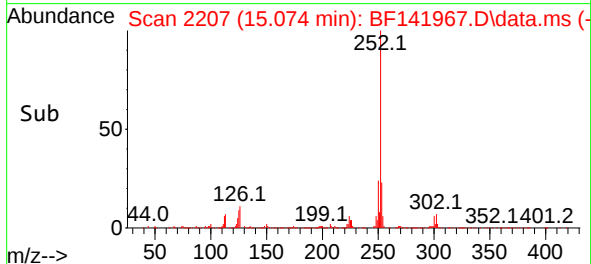
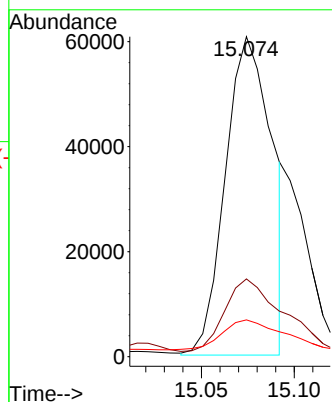
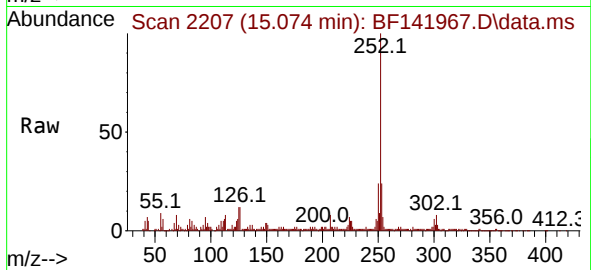
Tgt Ion:252 Resp: 106082

Ion Ratio Lower Upper

252 100

253 24.3 17.5 26.3

125 11.5 7.0 10.4#



#89

Benzo(k)fluoranthene

Concen: 2.155 ng m

RT: 15.092 min Scan# 2210

Delta R.T. -0.018 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

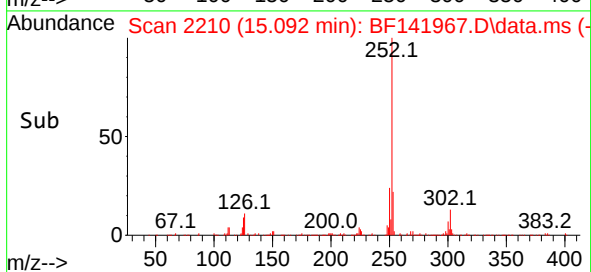
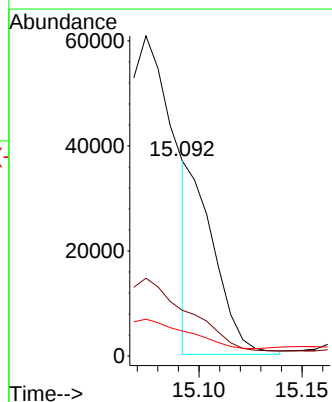
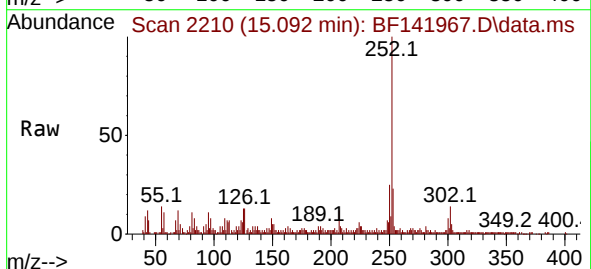
Tgt Ion:252 Resp: 31525

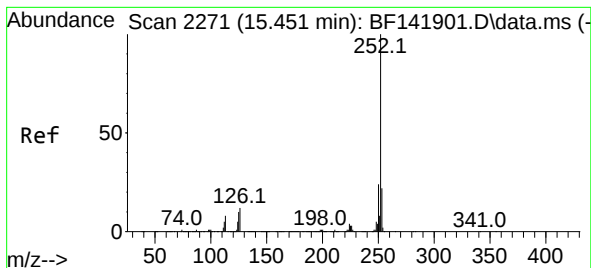
Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 12.8 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 4.309 ng

RT: 15.439 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

Instrument :

BNA\_F

ClientSampleId :

72-11978

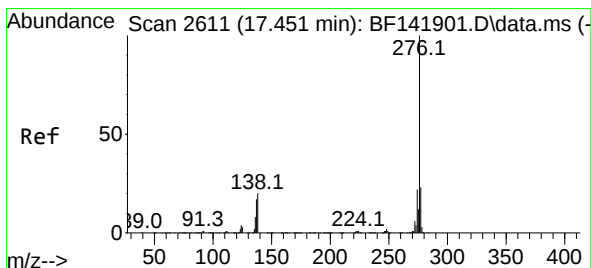
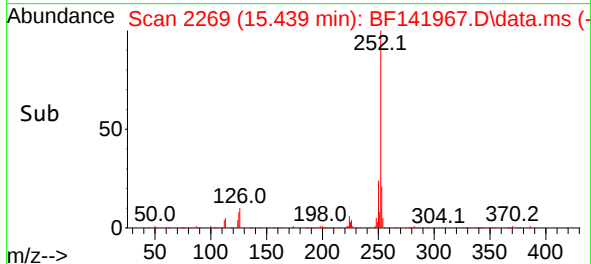
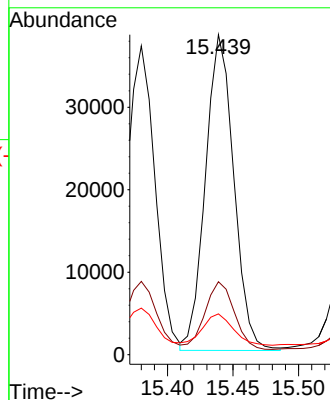
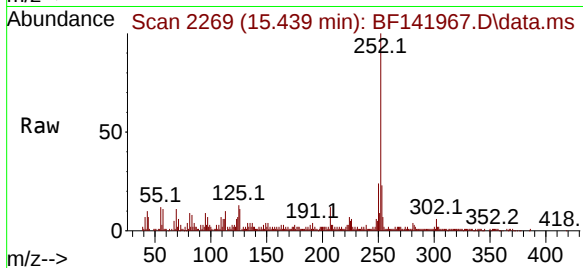
Tgt Ion:252 Resp: 57630

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

125 12.7 7.8 11.8#



#92

Benzo(g,h,i)perylene

Concen: 2.887 ng

RT: 17.427 min Scan# 2607

Delta R.T. -0.024 min

Lab File: BF141967.D

Acq: 14 Mar 2025 16:07

Tgt Ion:276 Resp: 37977

Ion Ratio Lower Upper

276 100

277 27.3 18.7 28.1

138 20.9 15.8 23.8

