

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
 Data File : BF141527.D  
 Acq On : 07 Feb 2025 23:53  
 Operator : RC/JU  
 Sample : Q1232-11 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-42.1-012925

Quant Time: Feb 08 00:34:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 06 16:58:59 2025  
 Response via : Initial Calibration

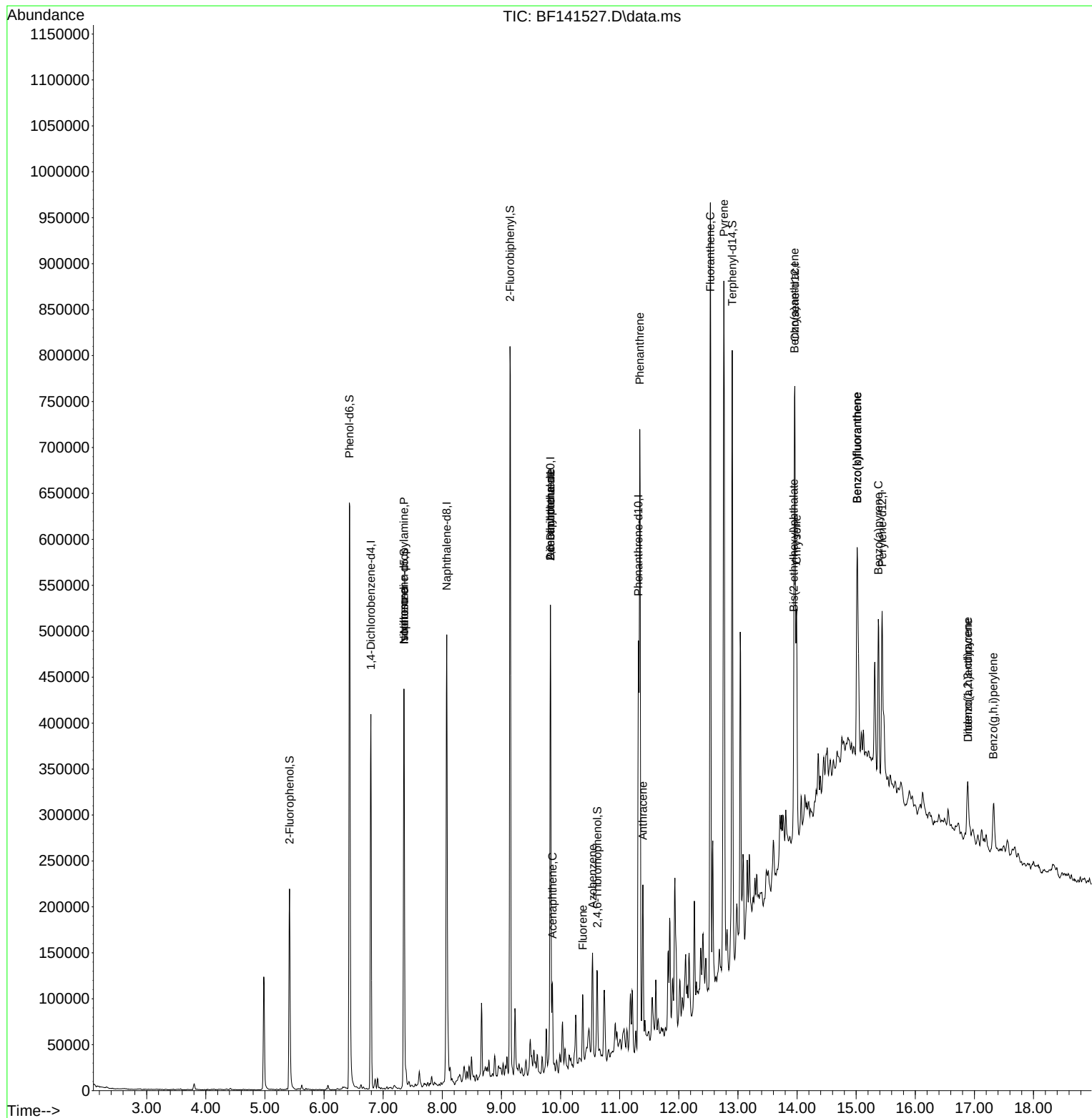
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.793  | 152  | 81132    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.075  | 136  | 300029   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.828  | 164  | 147138   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.316 | 188  | 226182   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.963 | 240  | 133028   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.439 | 264  | 108190   | 20.000 | ng    | 0.02     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.416  | 112  | 86054    | 16.629 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.428  | 99   | 285867   | 43.705 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.351  | 82   | 184712   | 32.111 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.622 | 330  | 10371    | 7.017  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.145  | 172  | 350964   | 36.749 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.904 | 244  | 311399   | 39.518 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.351  | 70   | 26465    | 6.764  | ng    | # 79     |
| 25) Isophorone                | 7.351  | 82   | 176437   | 19.237 | ng    | # 66     |
| 50) Dimethylphthalate         | 9.828  | 163  | 21316    | 2.134  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.828  | 165  | 19854    | 9.092  | ng    | # 23     |
| 52) Acenaphthene              | 9.863  | 154  | 28474    | 3.376  | ng    | 98       |
| 58) Fluorene                  | 10.375 | 166  | 26997    | 2.820  | ng    | # 99     |
| 63) Azobenzene                | 10.539 | 77   | 24722    | 2.530  | ng    | # 1      |
| 71) Phenanthrene              | 11.339 | 178  | 348527   | 27.993 | ng    | 99       |
| 72) Anthracene                | 11.392 | 178  | 103865   | 8.299  | ng    | 98       |
| 75) Fluoranthene              | 12.533 | 202  | 477148   | 36.148 | ng    | 99       |
| 78) Pyrene                    | 12.763 | 202  | 435351   | 38.444 | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.957 | 228  | 176434   | 19.952 | ng    | 97       |
| 83) Chrysene                  | 13.992 | 228  | 132233   | 16.195 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 13.945 | 149  | 9098     | 2.057  | ng    | # 93     |
| 87) Indeno(1,2,3-cd)pyrene    | 16.886 | 276  | 52470    | 7.849  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.016 | 252  | 193273   | 26.605 | ng    | # 94     |
| 89) Benzo(k)fluoranthene      | 15.016 | 252  | 193273   | 31.157 | ng    | # 95     |
| 90) Benzo(a)pyrene            | 15.374 | 252  | 109532   | 18.634 | ng    | # 93     |
| 91) Dibenzo(a,h)anthracene    | 16.892 | 278  | 13566    | 2.504  | ng    | # 74     |
| 92) Benzo(g,h,i)perylene      | 17.321 | 276  | 53835    | 9.497  | ng    | 95       |
| -----                         |        |      |          |        |       |          |

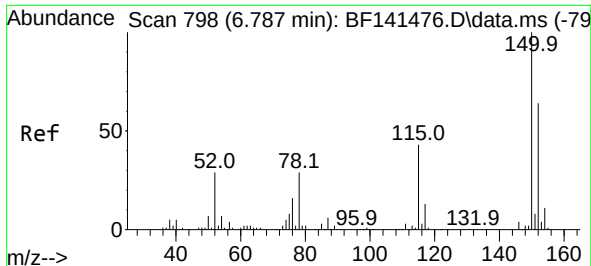
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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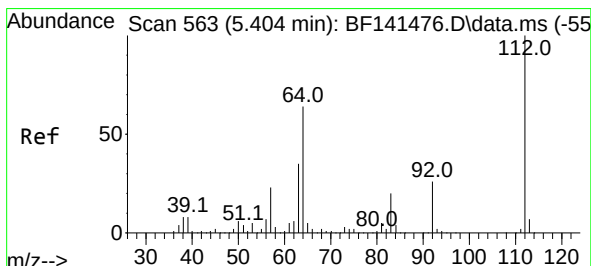
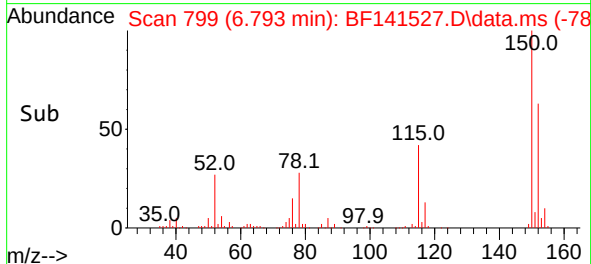
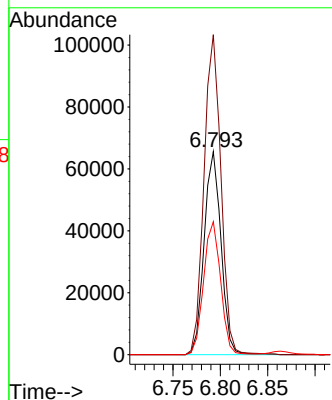
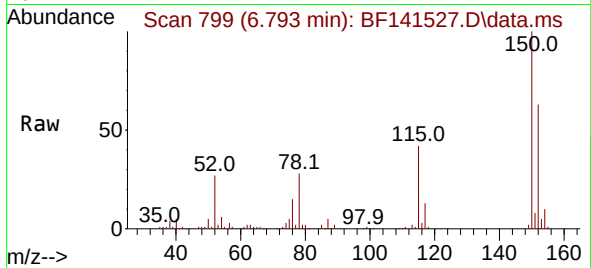




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.793 min Scan# 798  
Delta R.T. 0.001 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

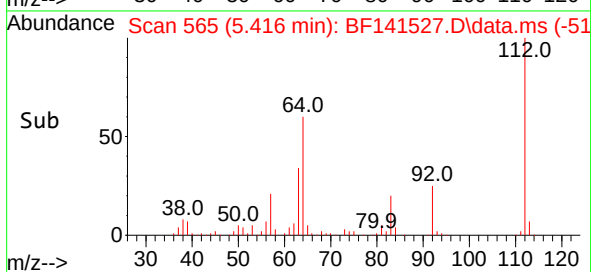
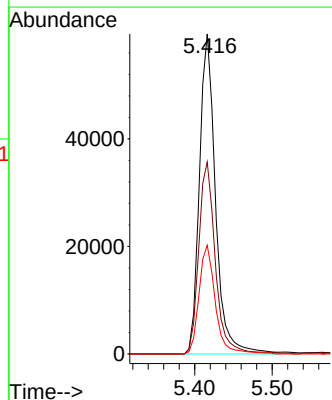
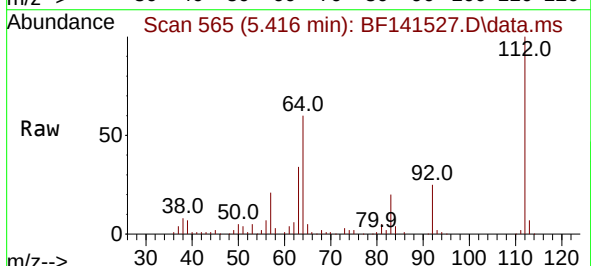
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BNA\_F  
ClientSampleId :  
JPP-42.1-012925

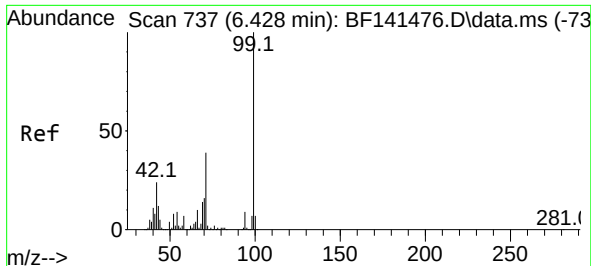
Tgt Ion:152 Resp: 81132  
Ion Ratio Lower Upper  
152 100  
150 157.6 125.0 187.4  
115 65.5 53.6 80.4



#5  
2-Fluorophenol  
Concen: 16.629 ng  
RT: 5.416 min Scan# 565  
Delta R.T. 0.006 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion:112 Resp: 86054  
Ion Ratio Lower Upper  
112 100  
64 60.0 51.1 76.7  
63 33.9 28.4 42.6

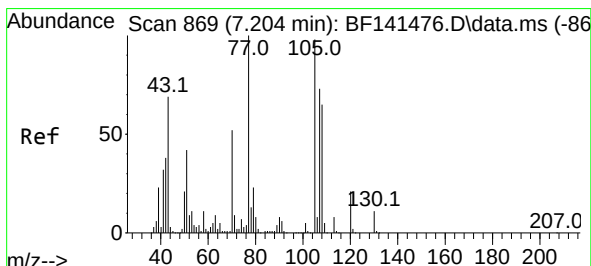
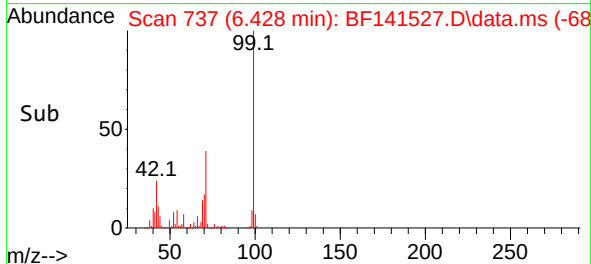
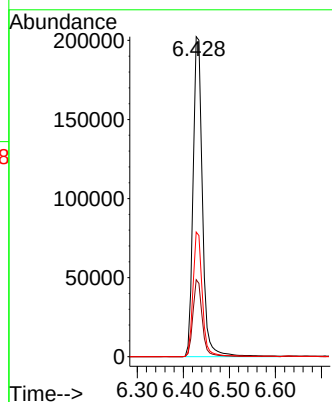
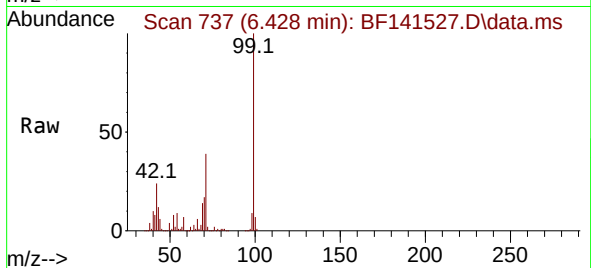




#7  
Phenol-d6  
Concen: 43.705 ng  
RT: 6.428 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

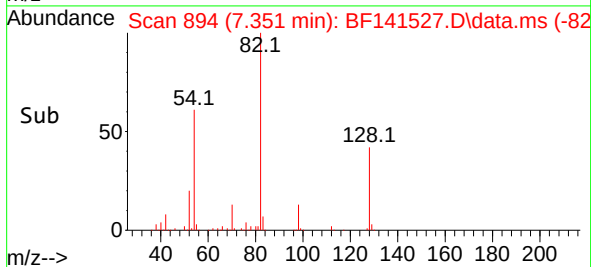
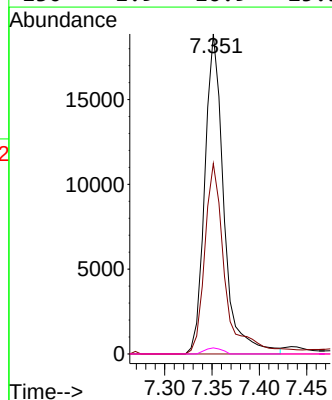
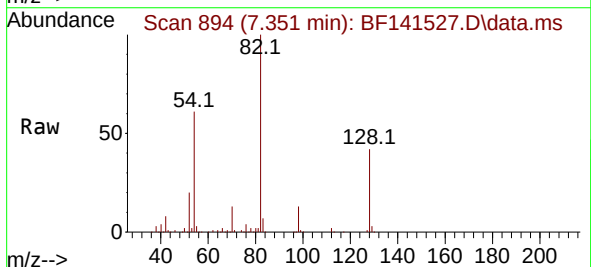
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.1-012925

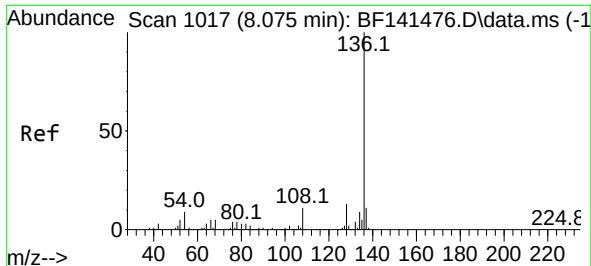
Tgt Ion: 99 Resp: 285867  
Ion Ratio Lower Upper  
99 100  
42 24.0 19.1 28.7  
71 38.9 31.1 46.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 6.764 ng  
RT: 7.351 min Scan# 894  
Delta R.T. 0.136 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion: 70 Resp: 26465  
Ion Ratio Lower Upper  
70 100  
42 59.5 57.4 86.2  
101 0.0 8.0 12.0#  
130 1.9 16.9 25.3#



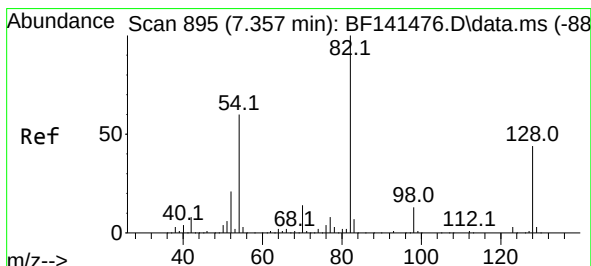
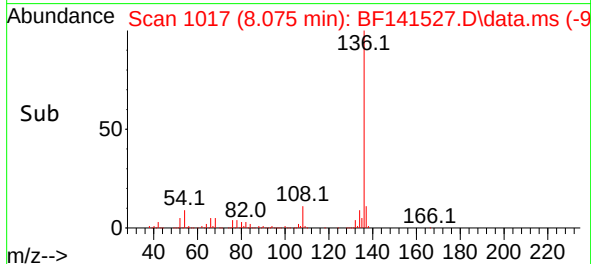
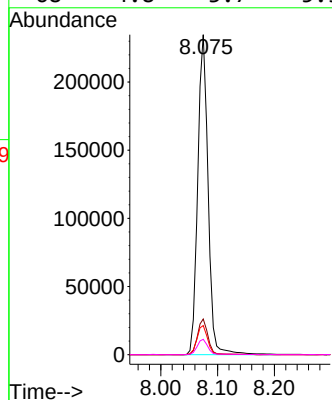
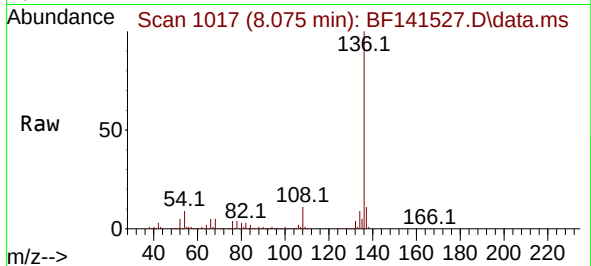


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.075 min Scan# 1017  
Delta R.T. 0.000 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.1-012925

Tgt Ion:136 Resp: 300029

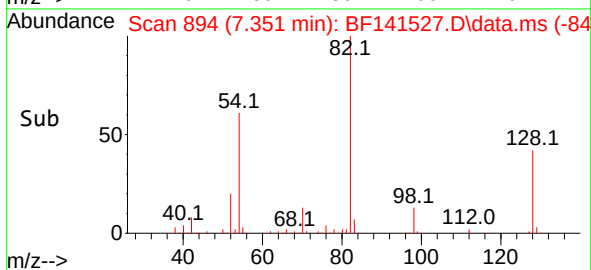
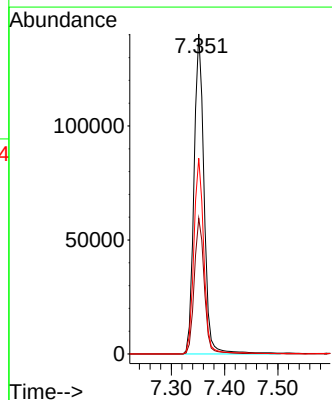
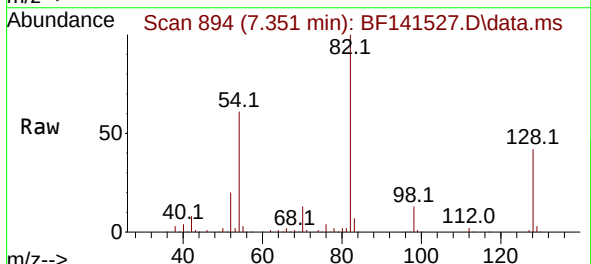
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 8.6   | 13.0  |
| 54  | 9.1   | 7.2   | 10.8  |
| 68  | 4.8   | 3.7   | 5.5   |

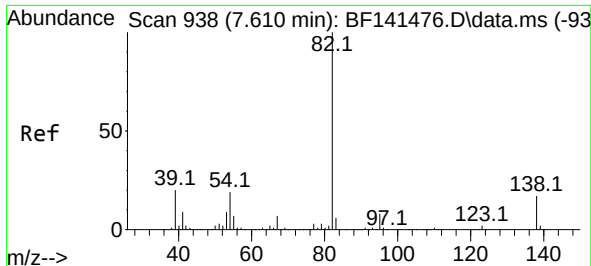


#23  
Nitrobenzene-d5  
Concen: 32.111 ng  
RT: 7.351 min Scan# 894  
Delta R.T. -0.012 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion: 82 Resp: 184712

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 42.4  | 34.8  | 52.2  |
| 54  | 61.1  | 48.2  | 72.4  |

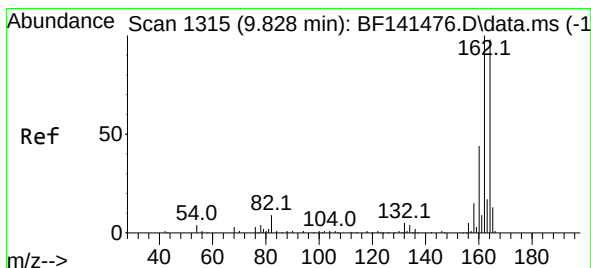
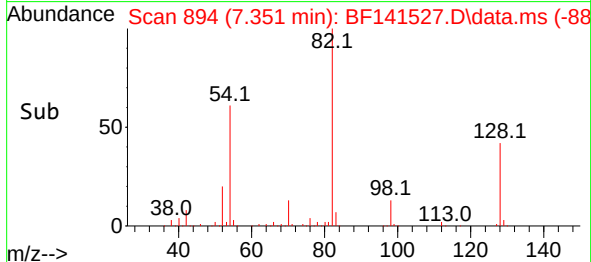
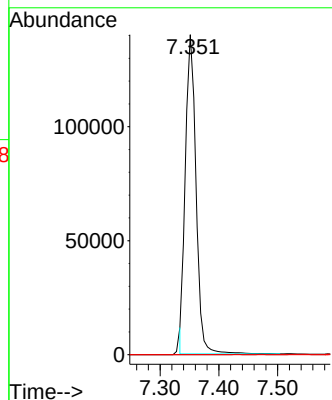
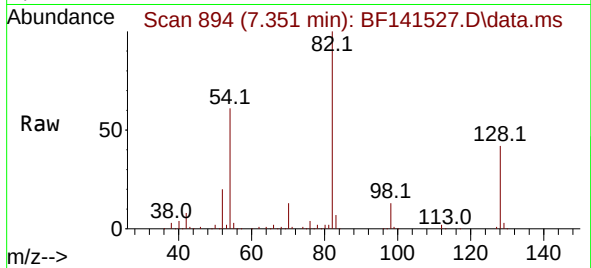




#25  
Isophorone  
Concen: 19.237 ng  
RT: 7.351 min Scan# 894  
Delta R.T. -0.270 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

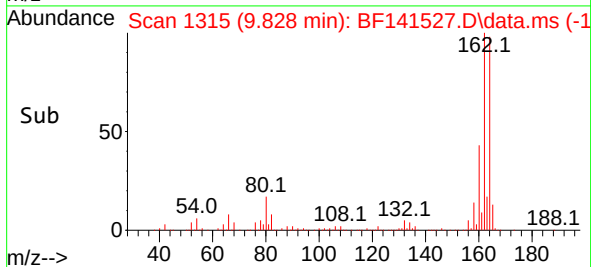
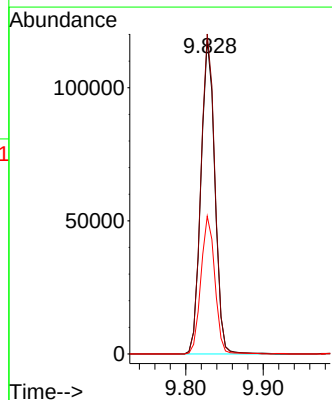
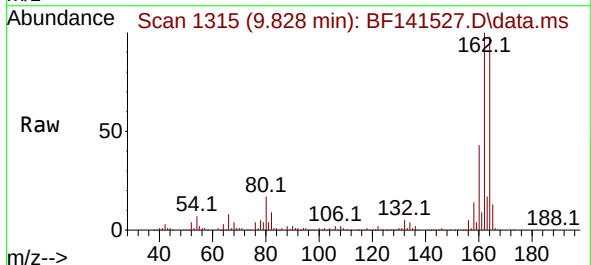
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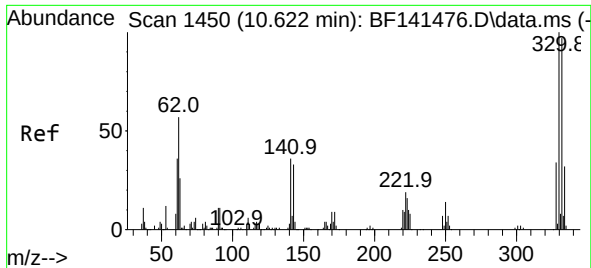
Tgt Ion: 82 Resp: 176437  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.4 9.6#  
138 0.0 13.9 20.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.828 min Scan# 1315  
Delta R.T. -0.006 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion:164 Resp: 147138  
Ion Ratio Lower Upper  
164 100  
162 102.0 81.3 121.9  
160 43.9 35.9 53.9

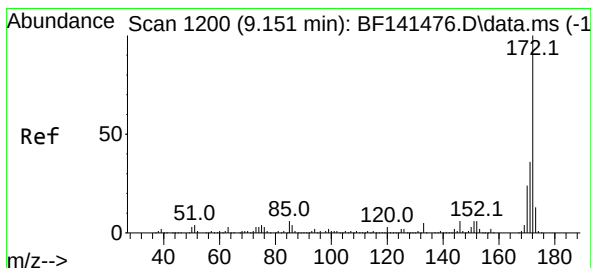
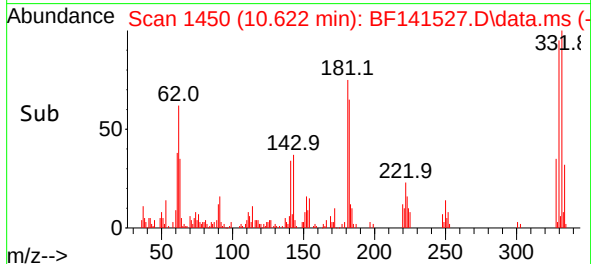
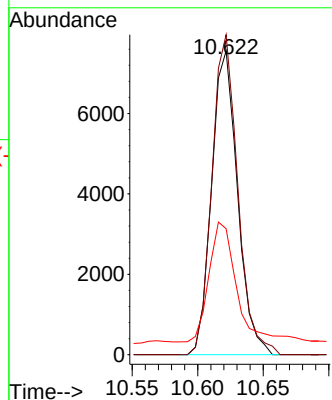
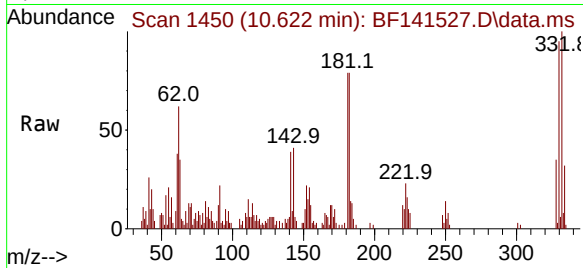




#42  
 2,4,6-Tribromophenol  
 Concen: 7.017 ng  
 RT: 10.622 min Scan# 1450  
 Delta R.T. -0.006 min  
 Lab File: BF141527.D  
 Acq: 07 Feb 2025 23:53

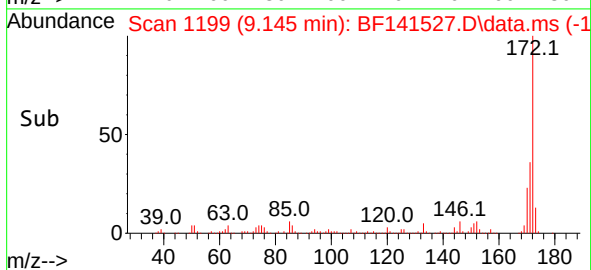
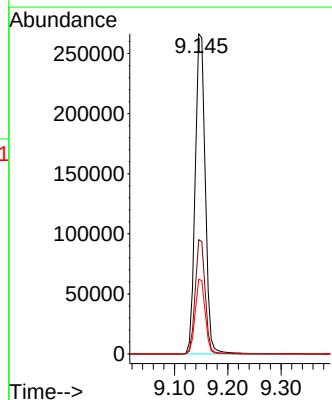
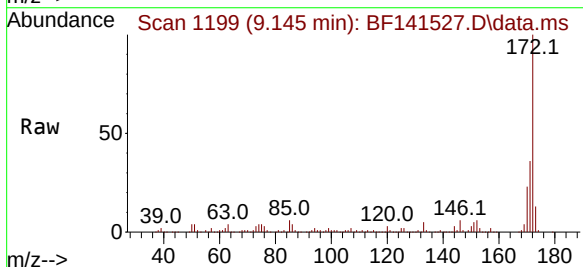
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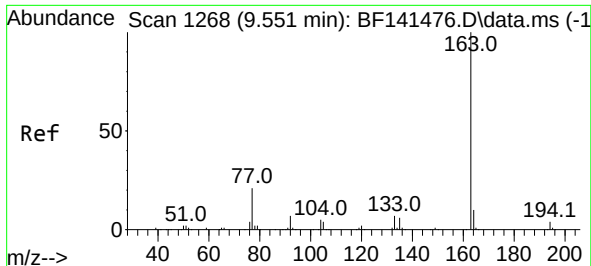
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|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 10371 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 105.0 | 78.5  | 117.7 |
| 141       | 43.9  | 31.0  | 46.4  |



#45  
 2-Fluorobiphenyl  
 Concen: 36.749 ng  
 RT: 9.145 min Scan# 1199  
 Delta R.T. -0.006 min  
 Lab File: BF141527.D  
 Acq: 07 Feb 2025 23:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 350964 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.7  | 28.7  | 43.1   |
| 170       | 23.3  | 18.9  | 28.3   |

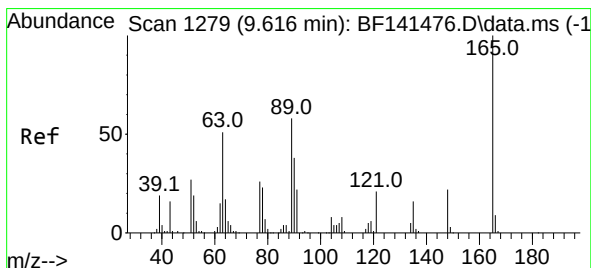
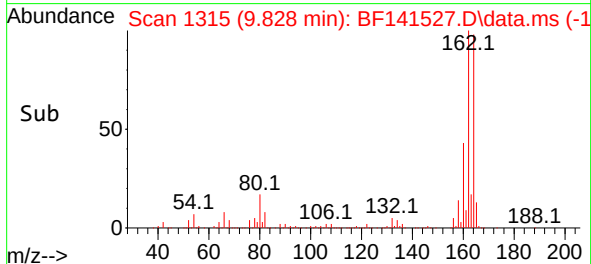
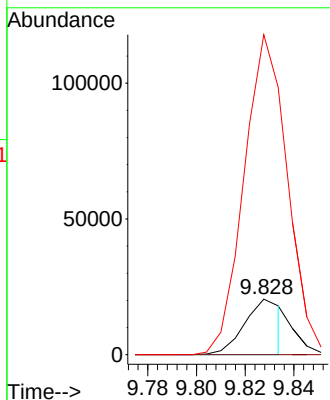
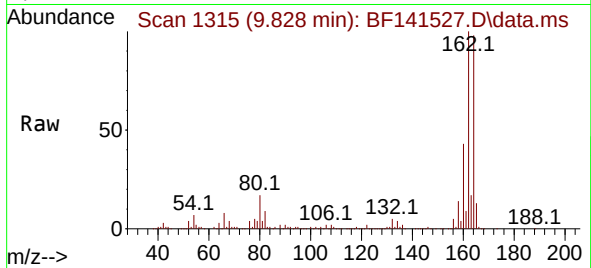




#50  
Dimethylphthalate  
Concen: 2.134 ng  
RT: 9.828 min Scan# 1315  
Delta R.T. 0.265 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

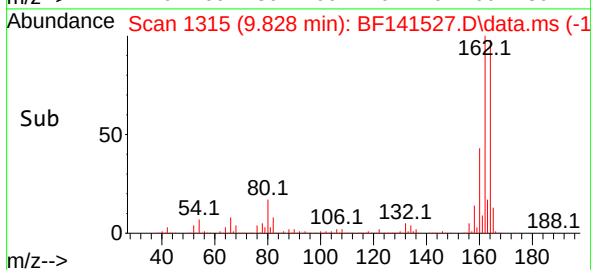
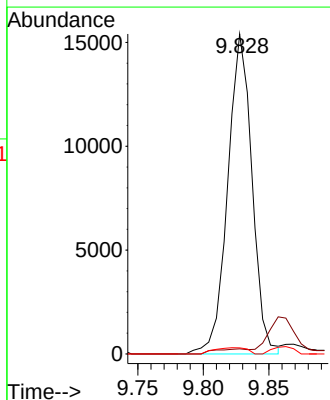
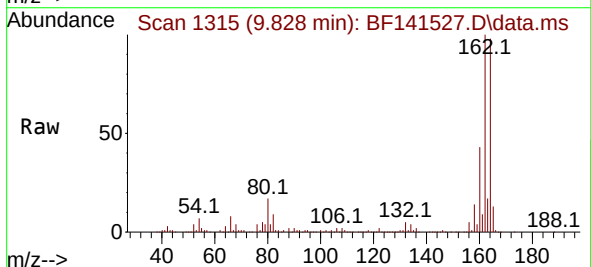
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.1-012925

Tgt Ion:163 Resp: 21316  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.0 4.4#  
164 576.7 7.9 11.9#

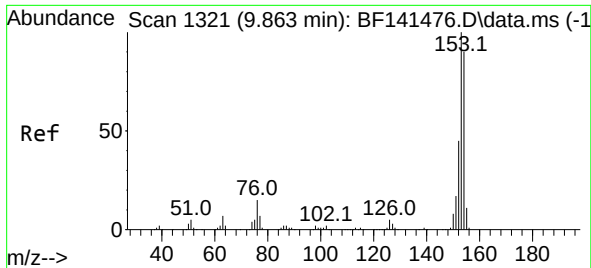


#51  
2,6-Dinitrotoluene  
Concen: 9.092 ng  
RT: 9.828 min Scan# 1315  
Delta R.T. 0.206 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion:165 Resp: 19854  
Ion Ratio Lower Upper  
165 100  
63 1.6 49.4 74.0#  
89 1.9 46.5 69.7#



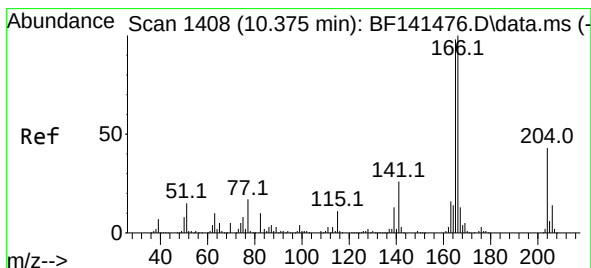
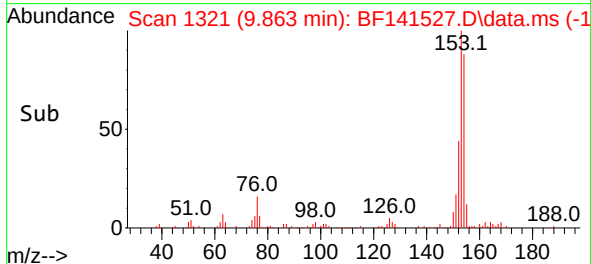
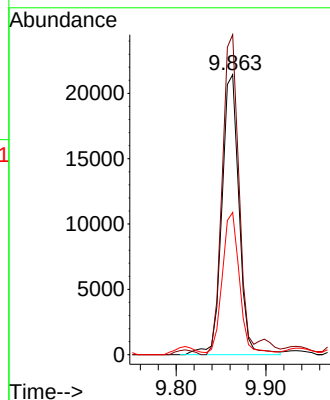
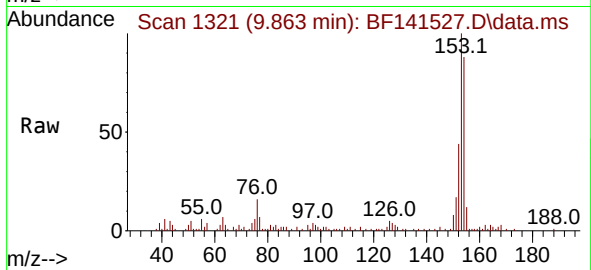




#52  
Acenaphthene  
Concen: 3.376 ng  
RT: 9.863 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

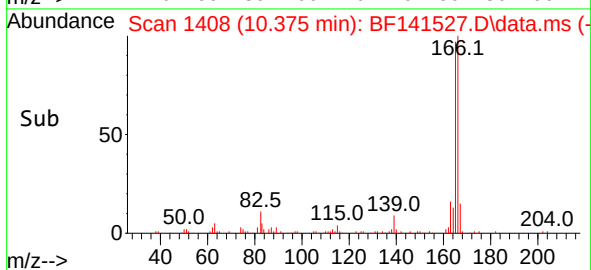
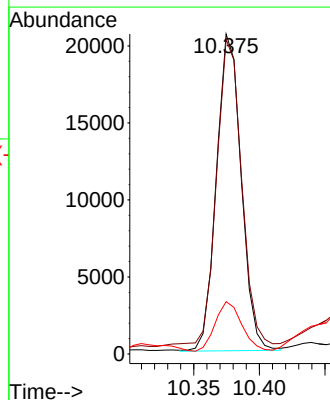
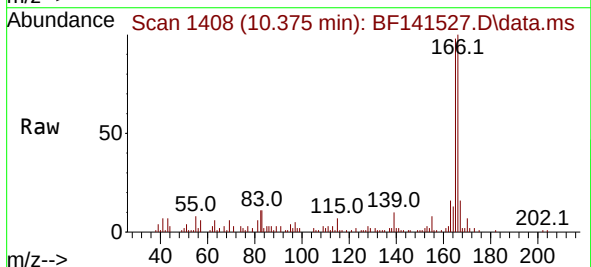
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.1-012925

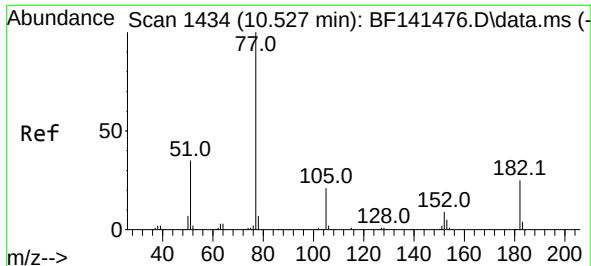
Tgt Ion:154 Resp: 28474  
Ion Ratio Lower Upper  
154 100  
153 114.3 89.2 133.8  
152 50.8 39.8 59.8



#58  
Fluorene  
Concen: 2.820 ng  
RT: 10.375 min Scan# 1408  
Delta R.T. -0.006 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion:166 Resp: 26997  
Ion Ratio Lower Upper  
166 100  
165 98.3 78.2 117.2  
167 16.3 10.7 16.1#

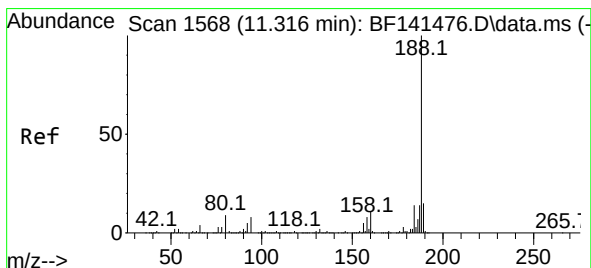
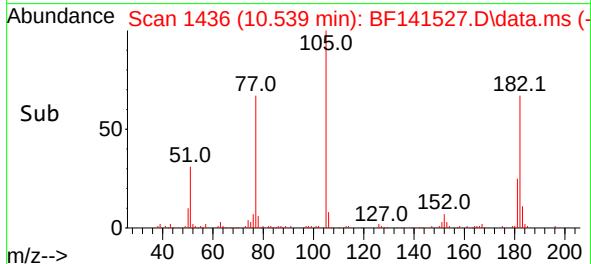
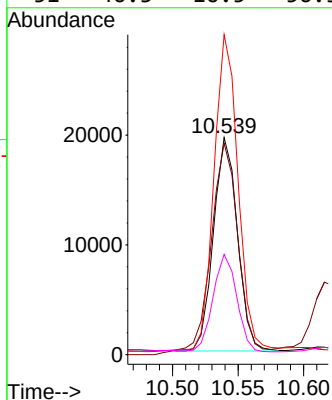
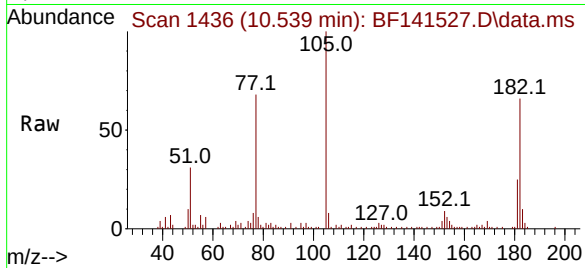




#63  
Azobenzene  
Concen: 2.530 ng  
RT: 10.539 min Scan# 1434  
Delta R.T. 0.006 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

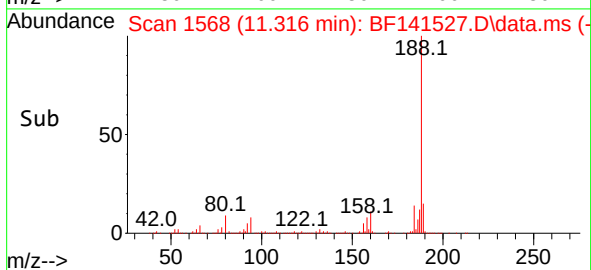
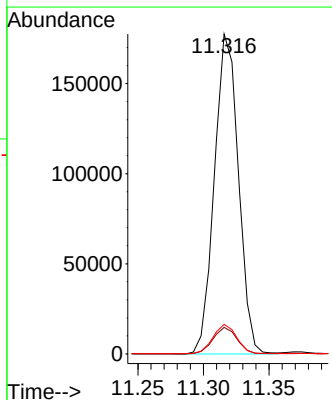
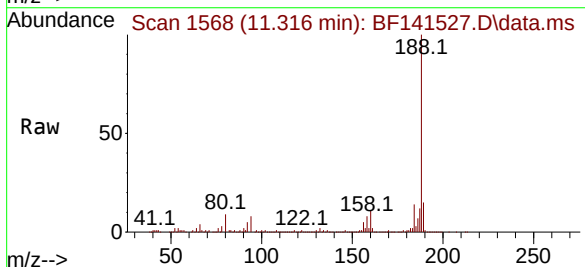
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.1-012925

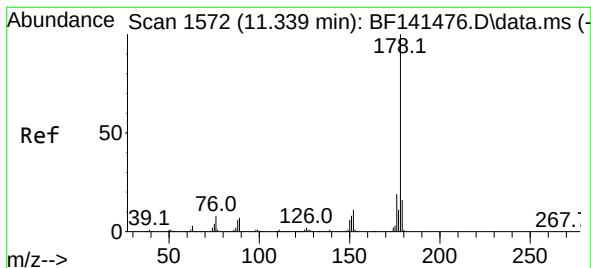
Tgt Ion: 77 Resp: 24722  
Ion Ratio Lower Upper  
77 100  
182 97.4 4.7 44.7#  
105 147.4 0.4 40.4#  
51 46.3 16.5 56.5



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.316 min Scan# 1568  
Delta R.T. 0.000 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion: 188 Resp: 226182  
Ion Ratio Lower Upper  
188 100  
94 8.3 6.6 10.0  
80 9.3 7.3 10.9





#71

Phenanthrene

Concen: 27.993 ng

RT: 11.339 min Scan# 1572

Delta R.T. -0.006 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

Instrument :

BNA\_F

ClientSampleId :

JPP-42.1-012925

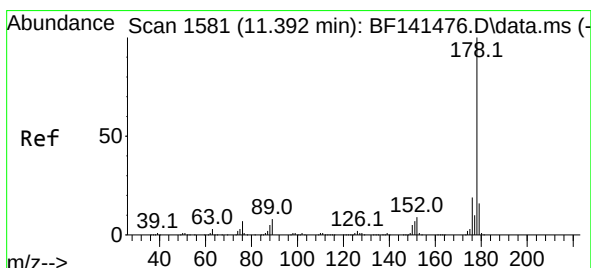
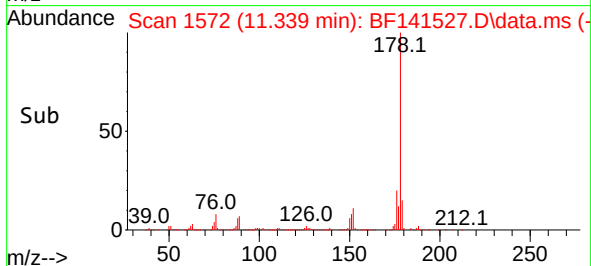
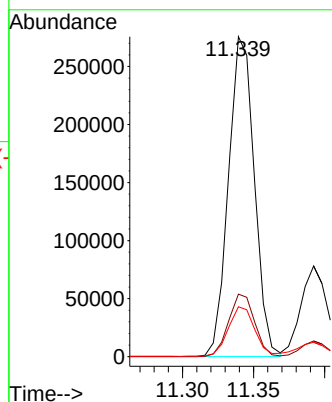
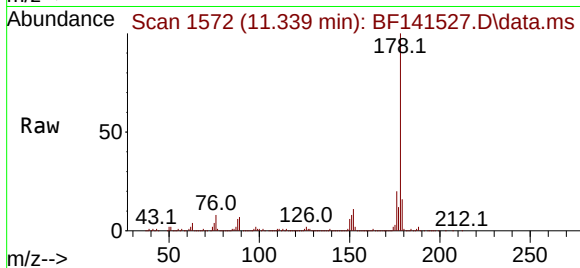
Tgt Ion:178 Resp: 348527

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.0

179 15.6 12.4 18.6



#72

Anthracene

Concen: 8.299 ng

RT: 11.392 min Scan# 1581

Delta R.T. -0.006 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

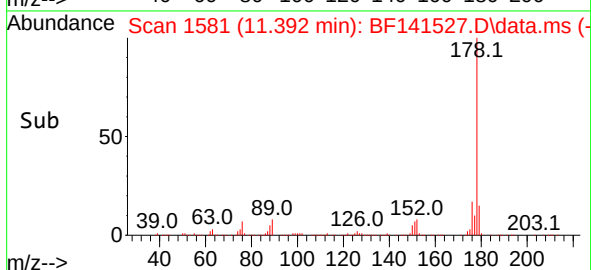
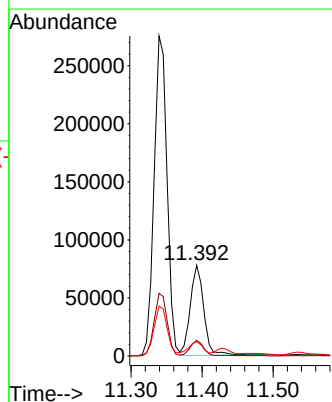
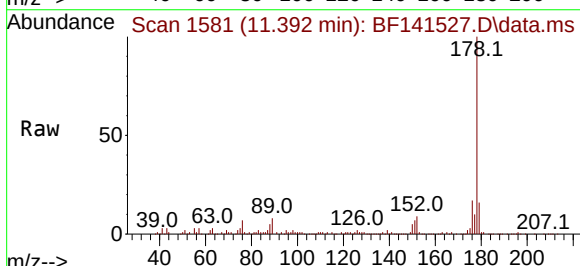
Tgt Ion:178 Resp: 103865

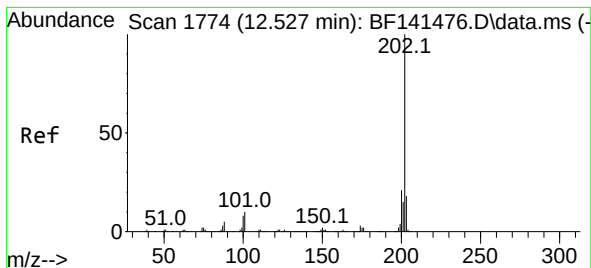
Ion Ratio Lower Upper

178 100

176 17.3 14.8 22.2

179 15.8 12.4 18.6





#75

Fluoranthene

Concen: 36.148 ng

RT: 12.533 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

Instrument :

BNA\_F

ClientSampleId :

JPP-42.1-012925

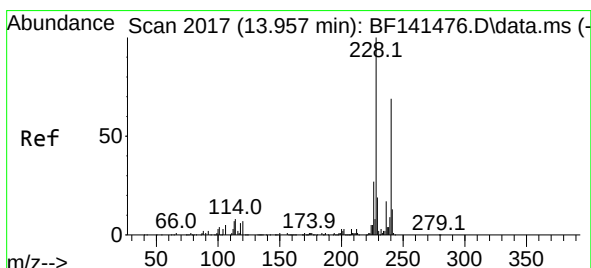
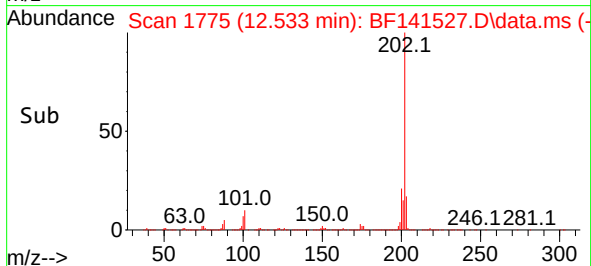
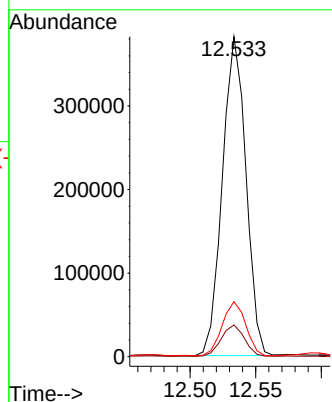
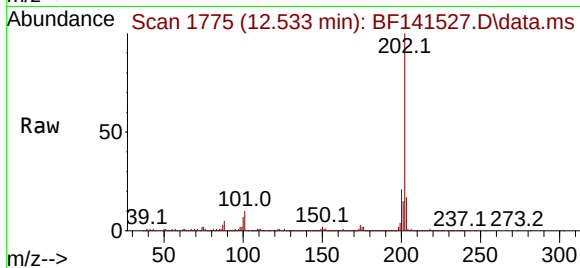
Tgt Ion:202 Resp: 477148

Ion Ratio Lower Upper

202 100

101 9.9 0.0 30.2

203 17.2 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 2018

Delta R.T. 0.000 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

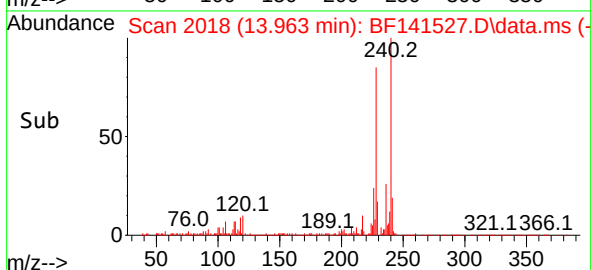
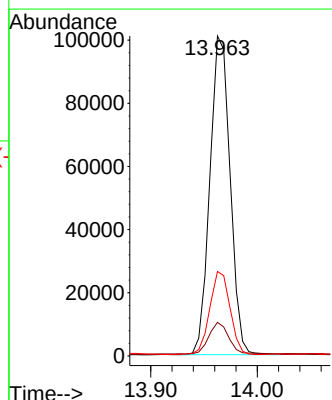
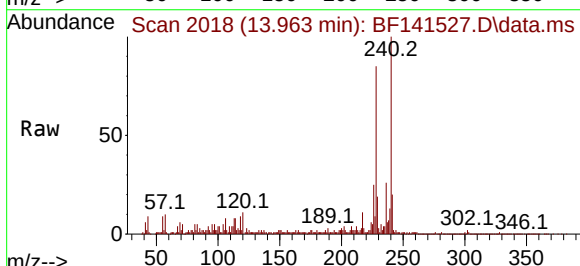
Tgt Ion:240 Resp: 133028

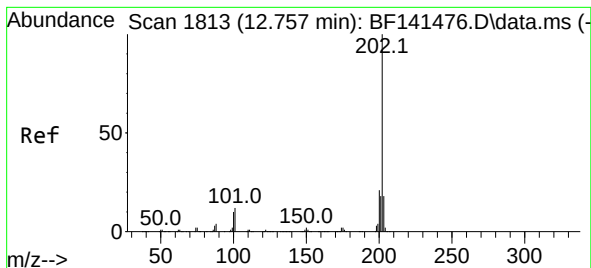
Ion Ratio Lower Upper

240 100

120 10.5 8.0 12.0

236 26.4 19.8 29.8





#78

Pyrene

Concen: 38.444 ng

RT: 12.763 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

Instrument :

BNA\_F

ClientSampleId :

JPP-42.1-012925

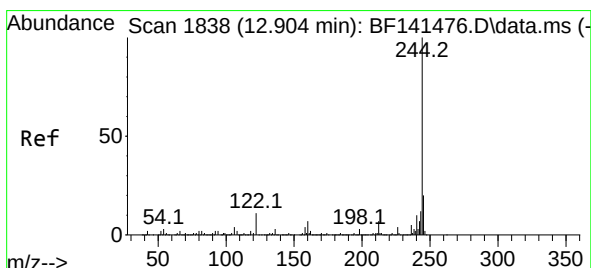
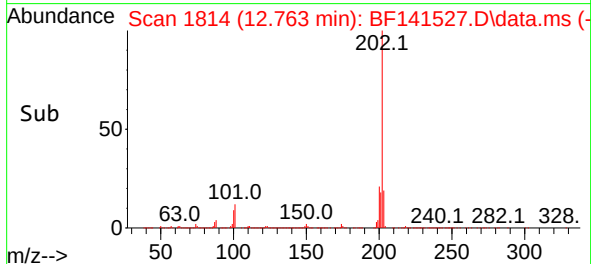
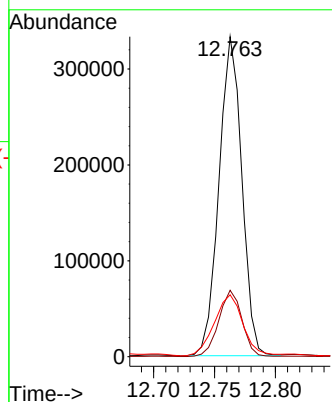
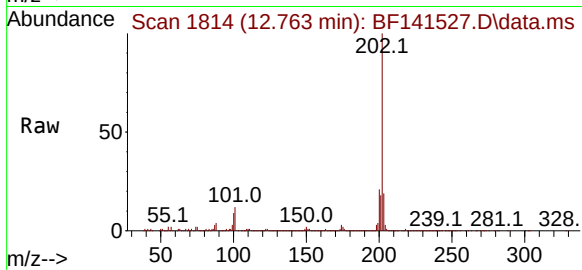
Tgt Ion:202 Resp: 435351

Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 19.4 14.3 21.5



#79

Terphenyl-d14

Concen: 39.518 ng

RT: 12.904 min Scan# 1838

Delta R.T. 0.000 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

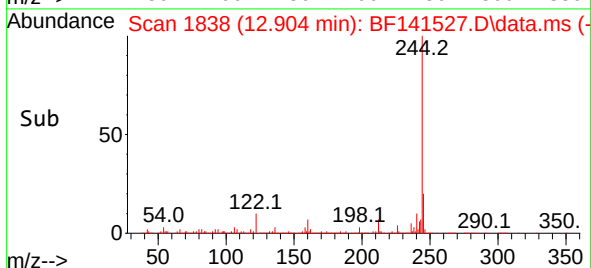
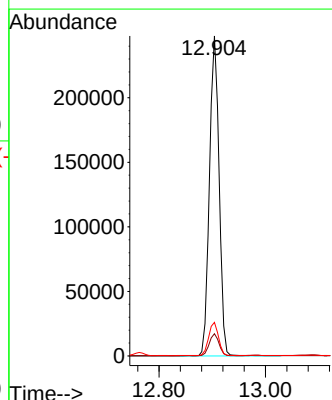
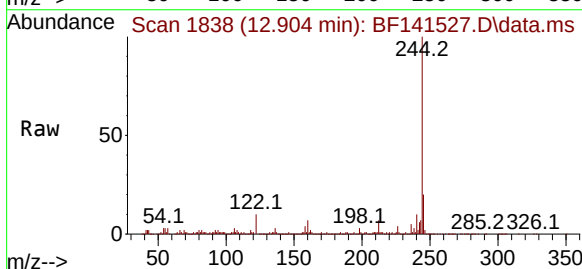
Tgt Ion:244 Resp: 311399

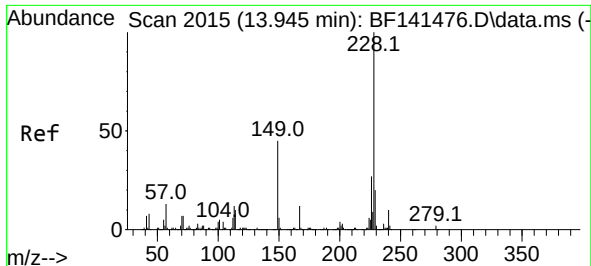
Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

122 10.5 8.4 12.6

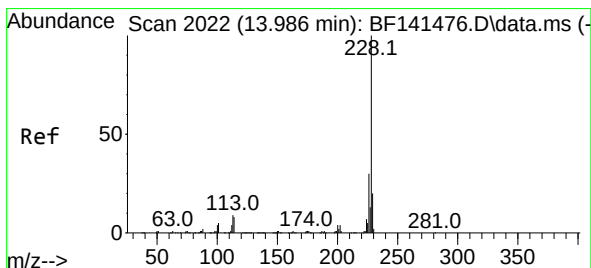
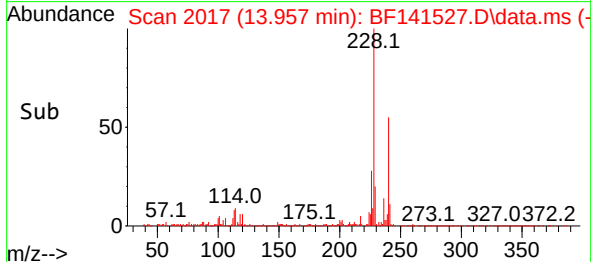
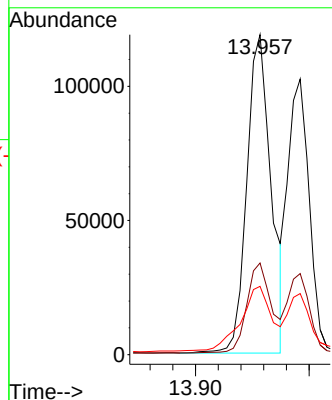
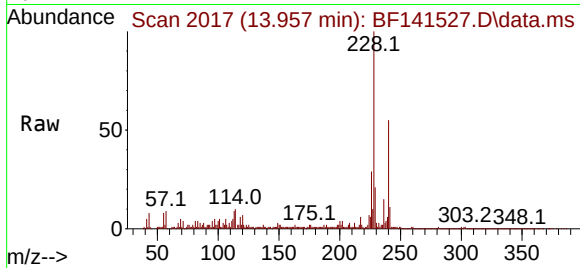




#81  
Benzo(a)anthracene  
Concen: 19.952 ng  
RT: 13.957 min Scan# 2015  
Delta R.T. 0.006 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

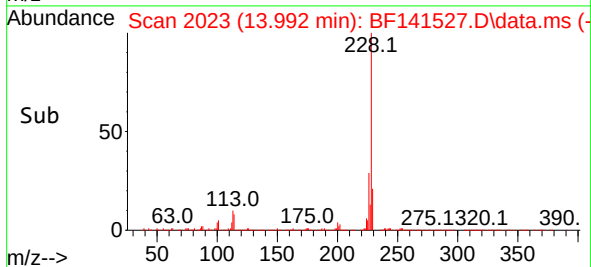
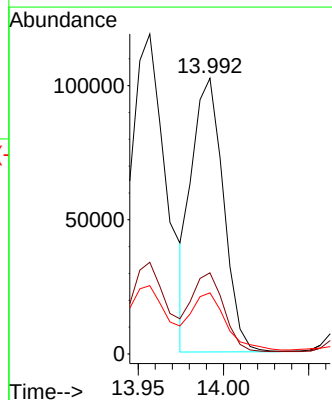
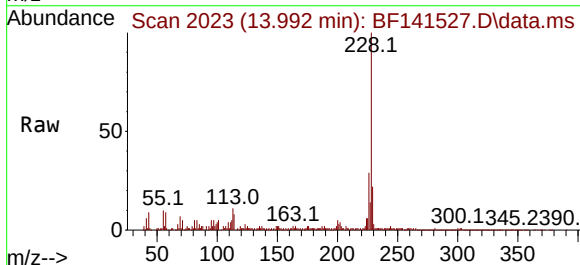
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.1-012925

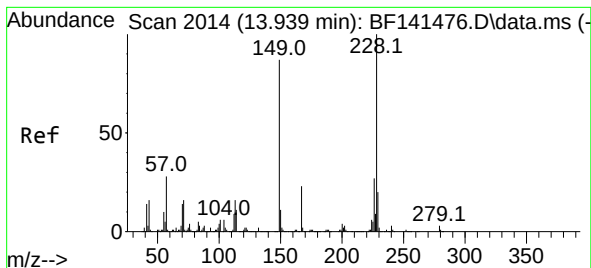
Tgt Ion:228 Resp: 176434  
Ion Ratio Lower Upper  
228 100  
226 28.6 21.8 32.8  
229 21.4 15.8 23.6



#83  
Chrysene  
Concen: 16.195 ng  
RT: 13.992 min Scan# 2023  
Delta R.T. 0.000 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion:228 Resp: 132233  
Ion Ratio Lower Upper  
228 100  
226 29.4 24.0 36.0  
229 22.2 15.7 23.5





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.057 ng

RT: 13.945 min Scan# 2014

Delta R.T. 0.006 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

Instrument :

BNA\_F

ClientSampleId :

JPP-42.1-012925

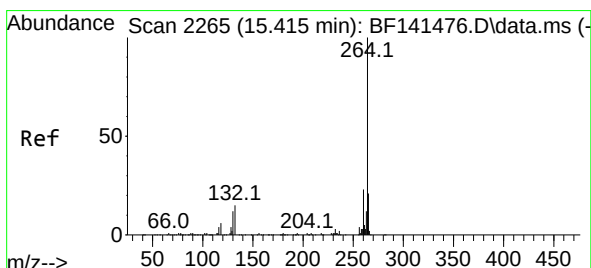
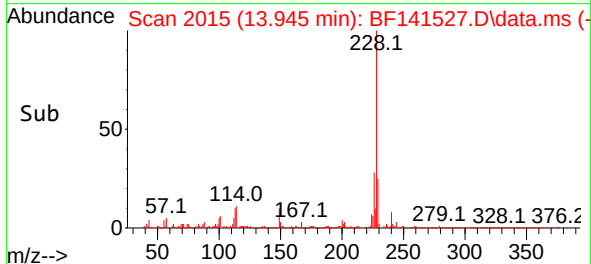
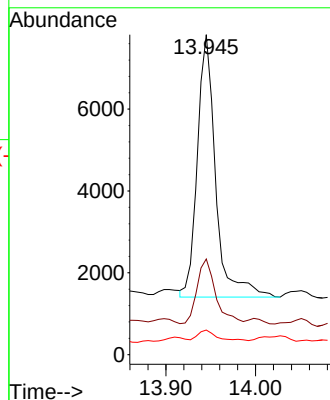
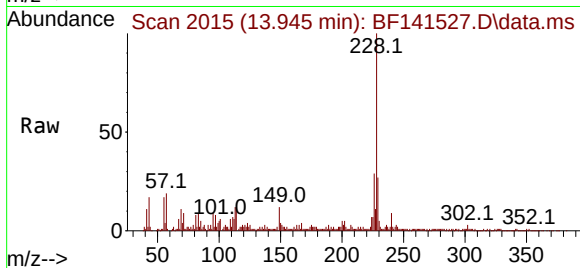
Tgt Ion:149 Resp: 9098

Ion Ratio Lower Upper

149 100

167 29.9 21.4 32.0

279 7.7 3.1 4.7#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.439 min Scan# 2269

Delta R.T. 0.024 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

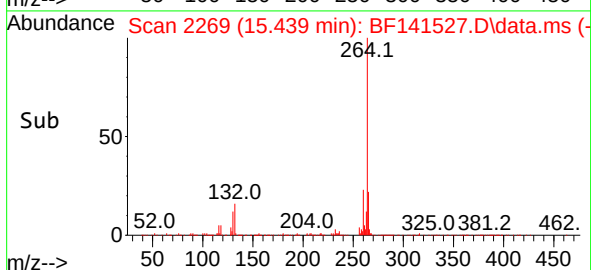
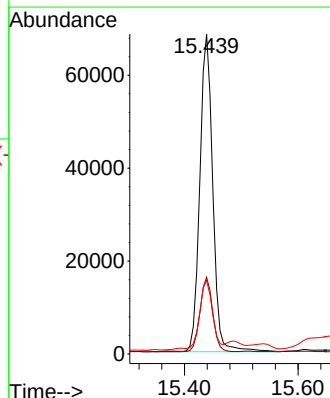
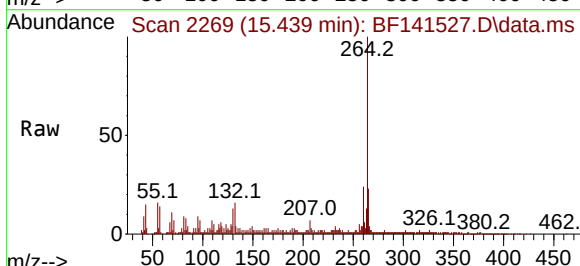
Tgt Ion:264 Resp: 108190

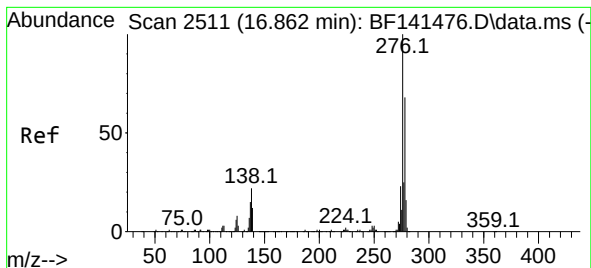
Ion Ratio Lower Upper

264 100

260 24.0 18.6 28.0

265 23.0 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.849 ng

RT: 16.886 min Scan# 2115

Delta R.T. 0.012 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

Instrument :

BNA\_F

ClientSampleId :

JPP-42.1-012925

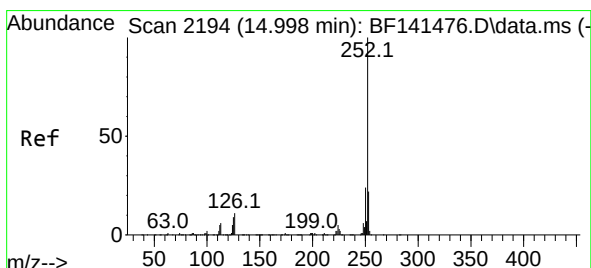
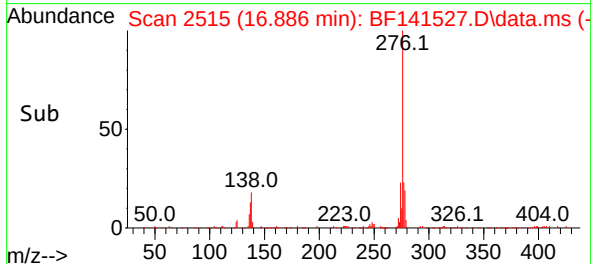
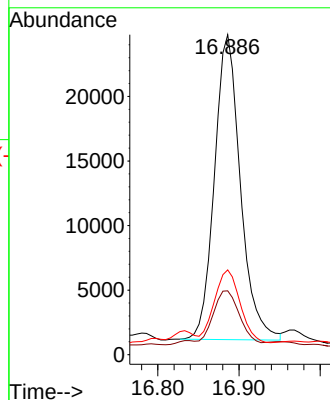
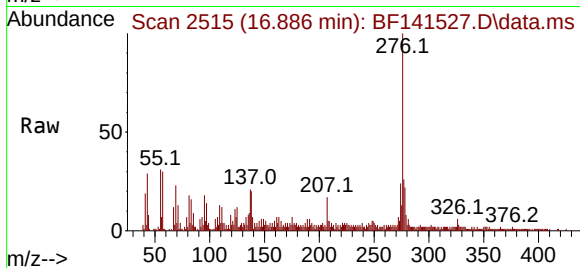
Tgt Ion:276 Resp: 52470

Ion Ratio Lower Upper

276 100

138 19.0 18.0 27.0

277 23.8 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 26.605 ng

RT: 15.016 min Scan# 2197

Delta R.T. 0.012 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

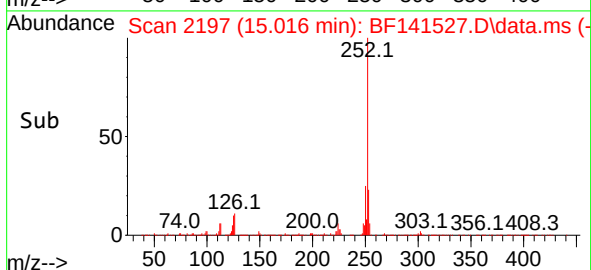
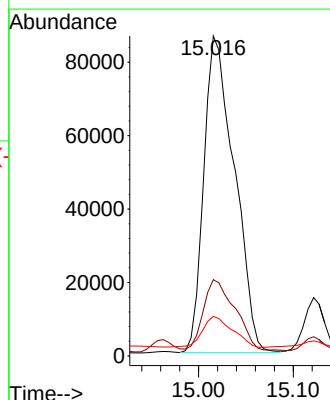
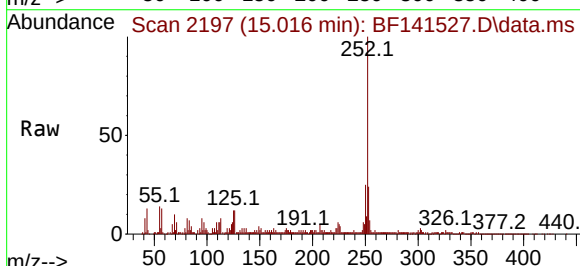
Tgt Ion:252 Resp: 193273

Ion Ratio Lower Upper

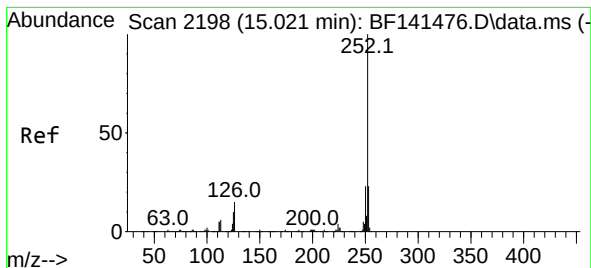
252 100

253 23.9 17.5 26.3

125 12.4 7.0 10.6#







#89

Benzo(k)fluoranthene

Concen: 31.157 ng

RT: 15.016 min Scan# 2198

Delta R.T. -0.017 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

Instrument :

BNA\_F

ClientSampleId :

JPP-42.1-012925

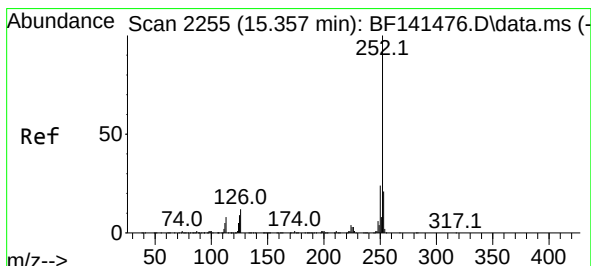
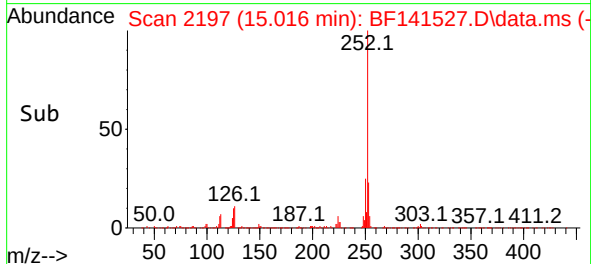
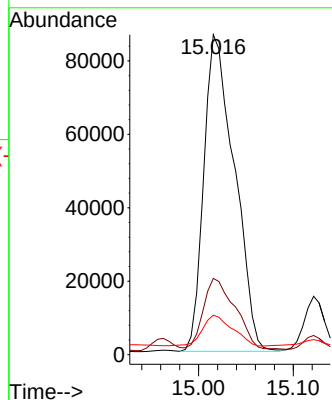
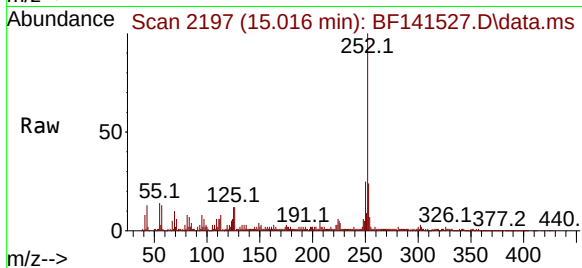
Tgt Ion:252 Resp: 193273

Ion Ratio Lower Upper

252 100

253 23.9 18.0 27.0

125 12.4 7.4 11.0#



#90

Benzo(a)pyrene

Concen: 18.634 ng

RT: 15.374 min Scan# 2258

Delta R.T. 0.012 min

Lab File: BF141527.D

Acq: 07 Feb 2025 23:53

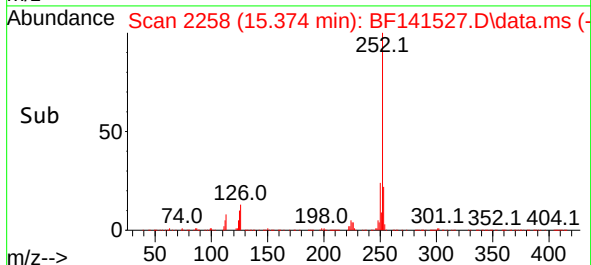
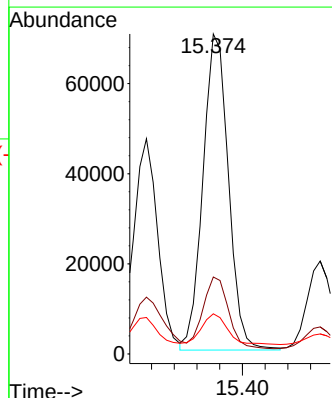
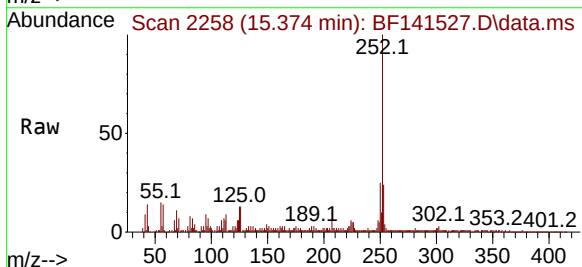
Tgt Ion:252 Resp: 109532

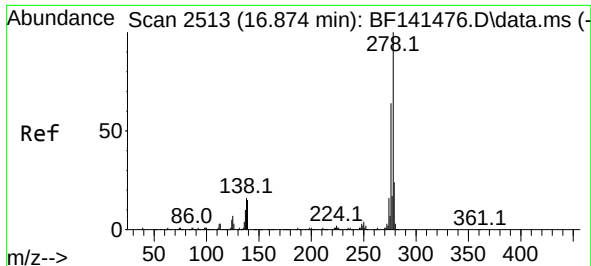
Ion Ratio Lower Upper

252 100

253 24.1 17.1 25.7

125 12.6 7.4 11.2#

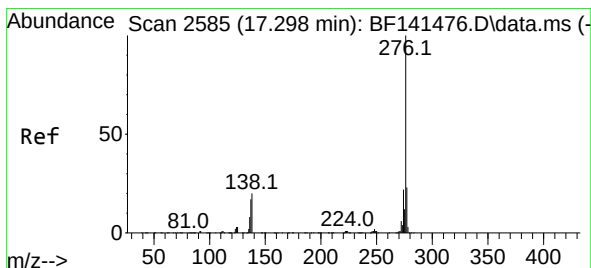
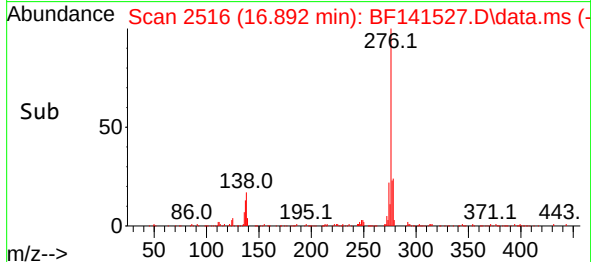
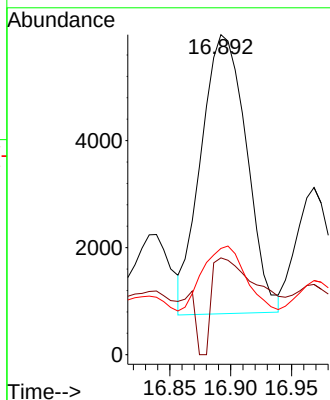
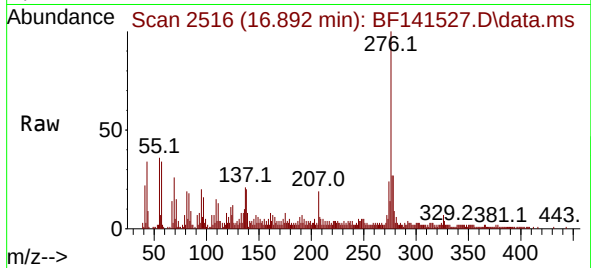




#91  
Dibenzo(a,h)anthracene  
Concen: 2.504 ng  
RT: 16.892 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.1-012925

Tgt Ion:278 Resp: 13566  
Ion Ratio Lower Upper  
278 100  
139 30.2 11.8 17.6#  
279 33.2 19.1 28.7#



#92  
Benzo(g,h,i)perylene  
Concen: 9.497 ng  
RT: 17.321 min Scan# 2589  
Delta R.T. 0.006 min  
Lab File: BF141527.D  
Acq: 07 Feb 2025 23:53

Tgt Ion:276 Resp: 53835  
Ion Ratio Lower Upper  
276 100  
277 25.9 18.6 28.0  
138 22.4 15.9 23.9

