

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100925\  
 Data File : BF143917.D  
 Acq On : 09 Oct 2025 19:13  
 Operator : RC/JU  
 Sample : Q3315-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11989

Quant Time: Oct 10 01:59:04 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 06 15:29:47 2025  
 Response via : Initial Calibration

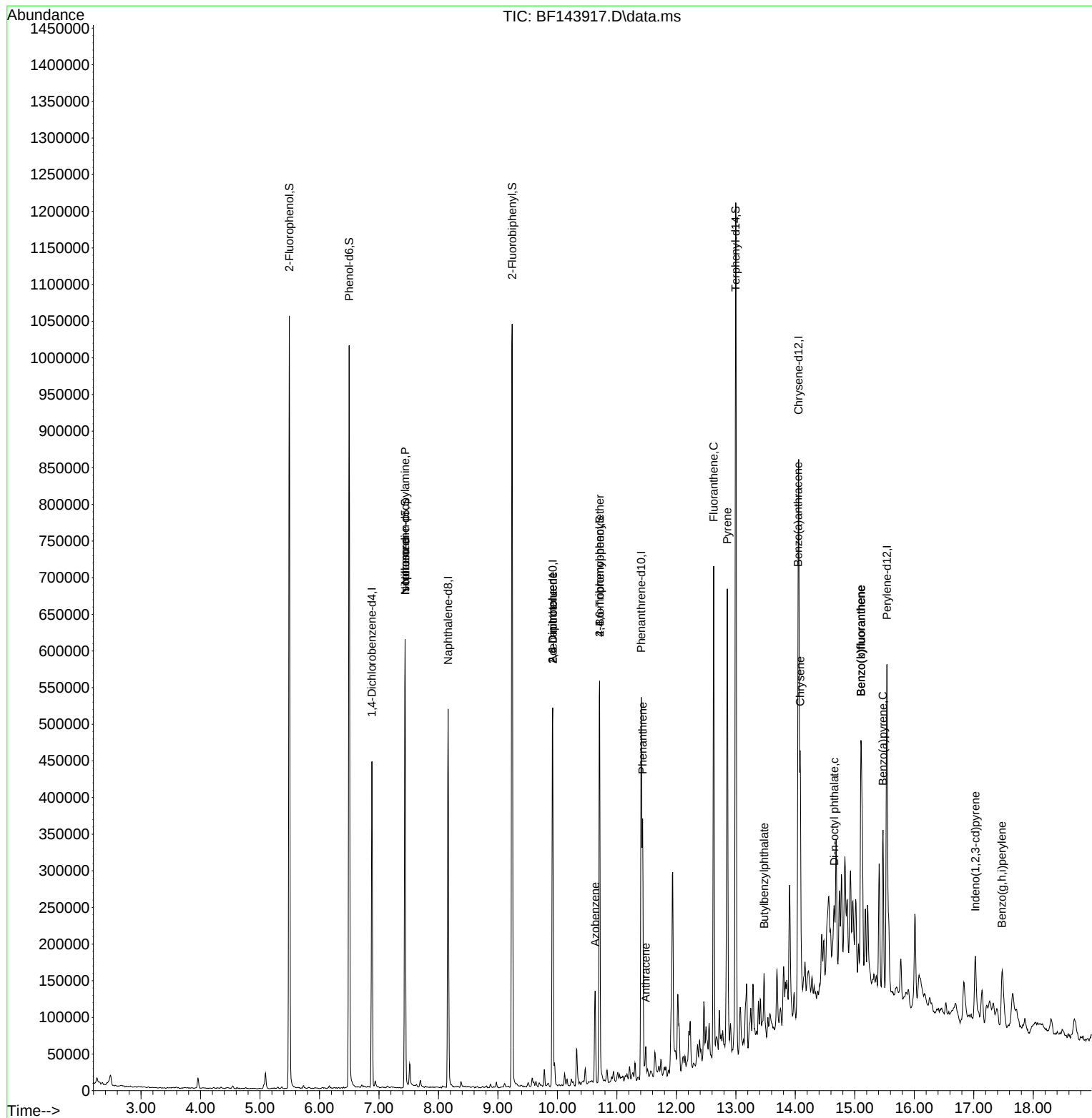
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 88021    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.163  | 136  | 316862   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 157998   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 268006   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 263919   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12              | 15.539 | 264  | 285971   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.493  | 112  | 395932   | 71.430 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.498  | 99   | 433722   | 65.647 | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 7.439  | 82   | 251998   | 48.318 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 100080   | 63.596 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 505702   | 50.787 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.998 | 244  | 588665   | 38.121 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.439  | 70   | 36923    | 8.164  | ng    | # 75     |
| 25) Isophorone                | 7.439  | 82   | 203159   | 18.474 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene        | 9.922  | 165  | 20698    | 11.125 | ng    | # 27     |
| 57) 2,4-Dinitrotoluene        | 9.922  | 165  | 20698    | 8.176  | ng    | # 28     |
| 63) Azobenzene                | 10.633 | 77   | 30028    | 3.082  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.710 | 248  | 6491     | 2.192  | ng    | # 1      |
| 71) Phenanthrene              | 11.433 | 178  | 183423   | 14.117 | ng    | 100      |
| 72) Anthracene                | 11.486 | 178  | 26517    | 2.020  | ng    | 99       |
| 75) Fluoranthene              | 12.627 | 202  | 379632   | 28.287 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 366873   | 16.674 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 26734    | 3.741  | ng    | 95       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 180597   | 10.457 | ng    | 98       |
| 83) Chrysene                  | 14.080 | 228  | 187451   | 11.727 | ng    | 98       |
| 85) Di-n-octyl phthalate      | 14.657 | 149  | 35760    | 2.528  | ng    | # 80     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.027 | 276  | 67630    | 3.860  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 295260   | 17.974 | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.104 | 252  | 295260   | 19.425 | ng    | 98       |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 139884   | 9.821  | ng    | # 98     |
| 92) Benzo(g,h,i)perylene      | 17.474 | 276  | 64439    | 4.572  | ng    | # 94     |
| -----                         |        |      |          |        |       |          |

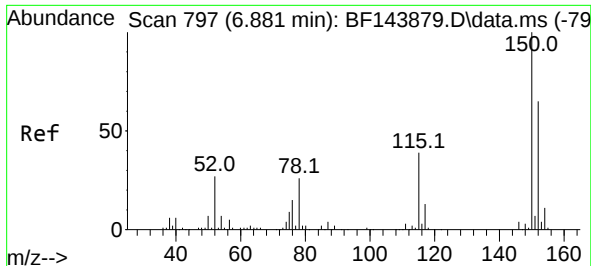
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100925\  
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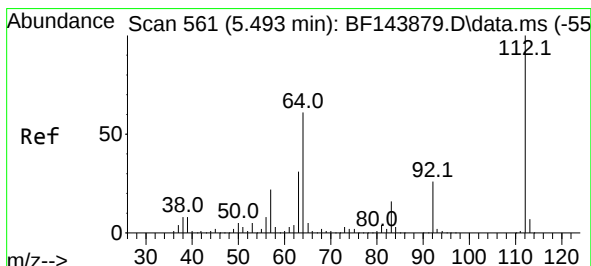
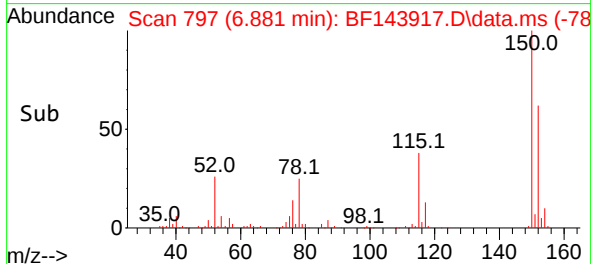
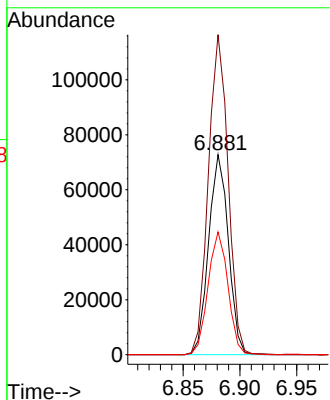
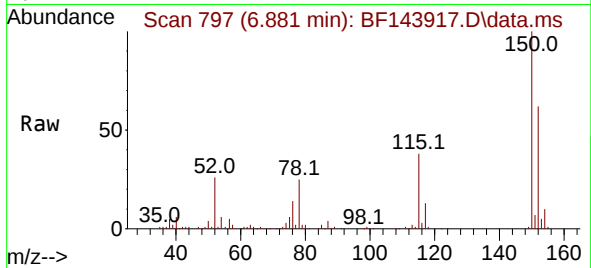




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 797  
Delta R.T. -0.005 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

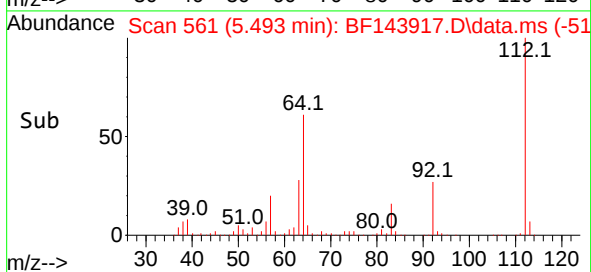
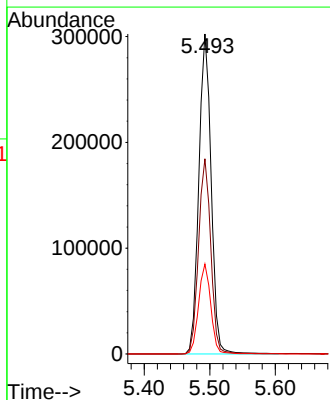
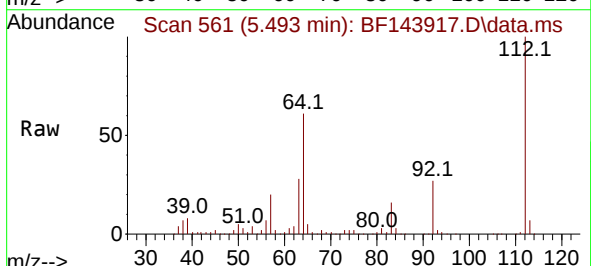
Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

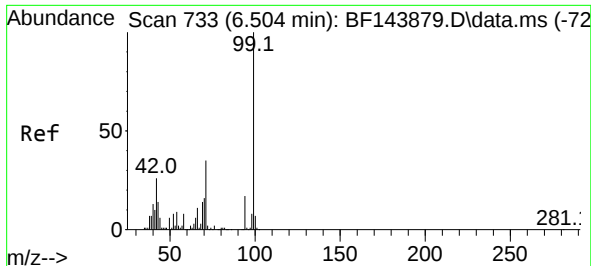
Tgt Ion:152 Resp: 88021  
Ion Ratio Lower Upper  
152 100  
150 160.1 124.4 186.6  
115 61.4 48.1 72.1



#5  
2-Fluorophenol  
Concen: 71.430 ng  
RT: 5.493 min Scan# 561  
Delta R.T. -0.006 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion:112 Resp: 395932  
Ion Ratio Lower Upper  
112 100  
64 61.0 49.1 73.7  
63 28.1 24.5 36.7

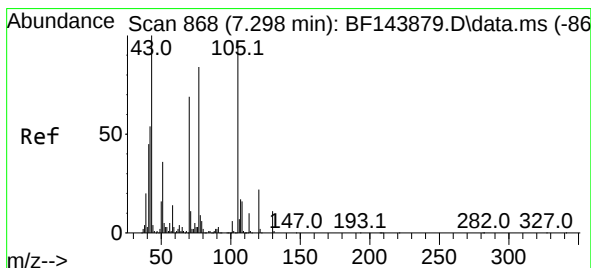
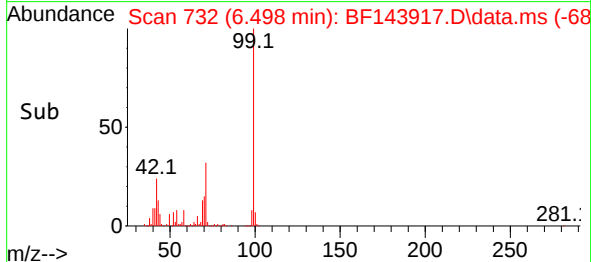
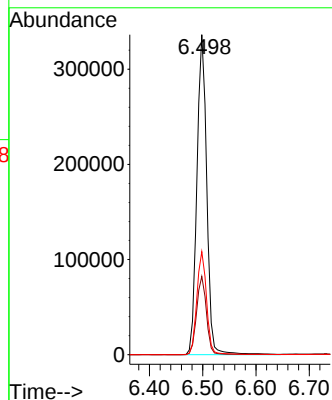
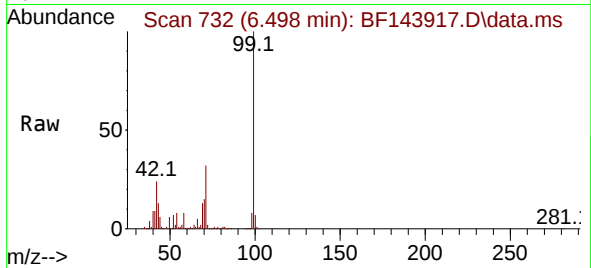




#7  
Phenol-d6  
Concen: 65.647 ng  
RT: 6.498 min Scan# 71  
Delta R.T. -0.018 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

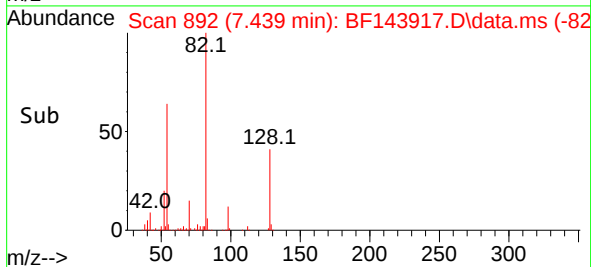
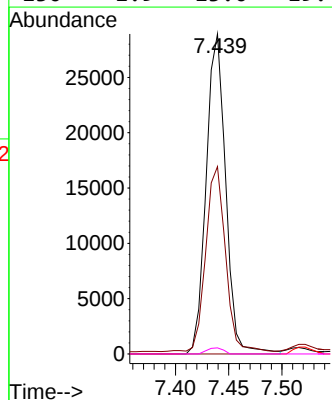
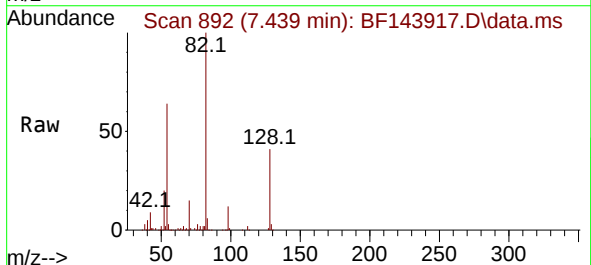
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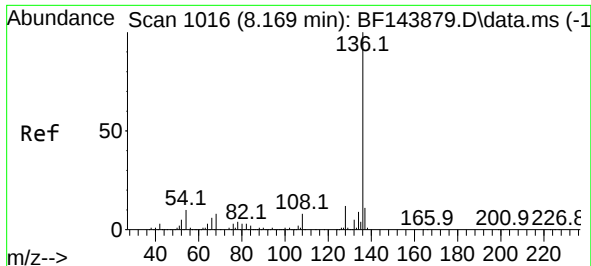
Tgt Ion: 99 Resp: 433722  
Ion Ratio Lower Upper  
99 100  
42 24.5 21.0 31.4  
71 32.2 27.8 41.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 8.164 ng  
RT: 7.439 min Scan# 892  
Delta R.T. 0.124 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion: 70 Resp: 36923  
Ion Ratio Lower Upper  
70 100  
42 58.6 62.8 94.2#  
101 0.0 6.7 10.1#  
130 1.9 13.0 19.4#

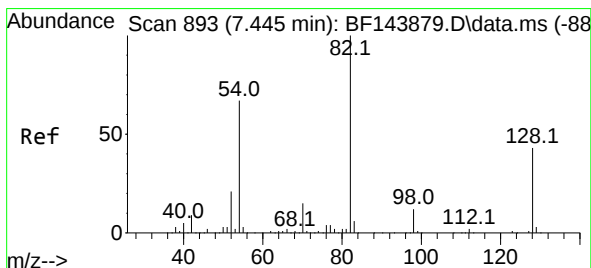
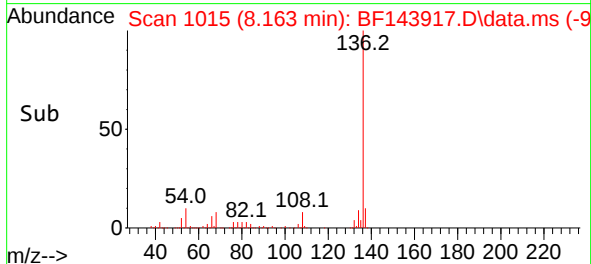
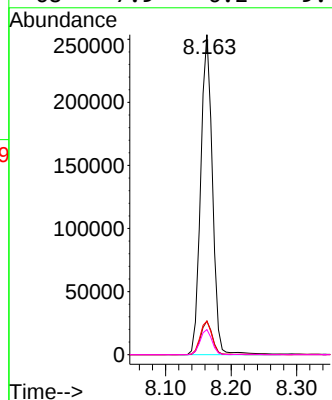
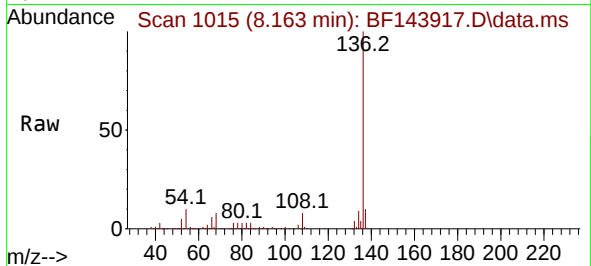




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

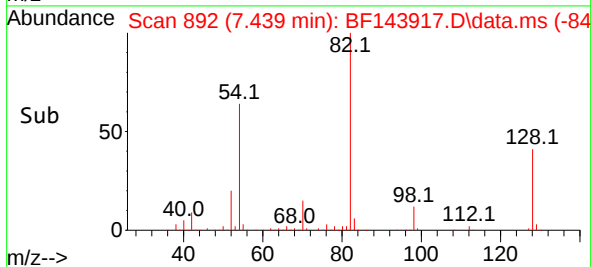
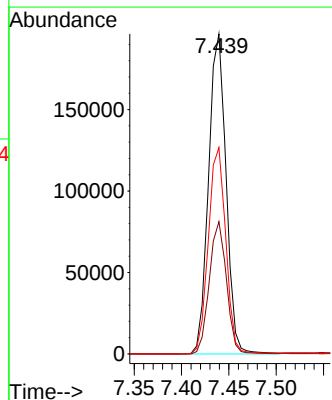
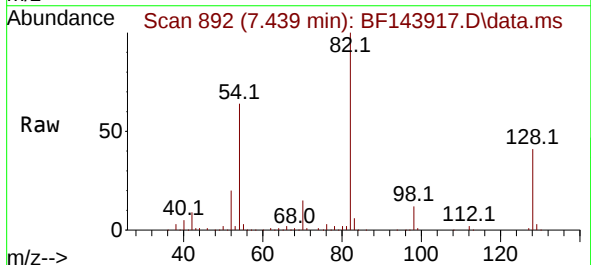
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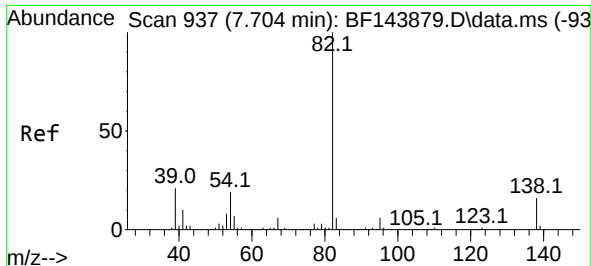
Tgt Ion:136 Resp: 316862  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.5 12.7  
54 10.5 8.2 12.4  
68 7.9 6.2 9.4



#23  
Nitrobenzene-d5  
Concen: 48.318 ng  
RT: 7.439 min Scan# 892  
Delta R.T. -0.018 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion: 82 Resp: 251998  
Ion Ratio Lower Upper  
82 100  
128 41.3 34.0 51.0  
54 64.5 53.2 79.8

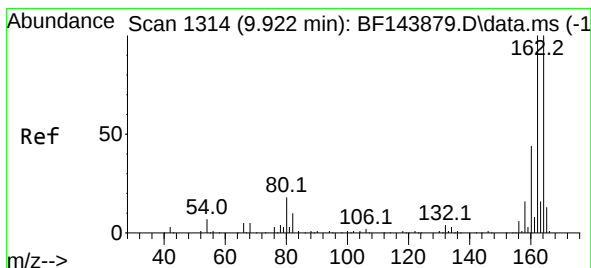
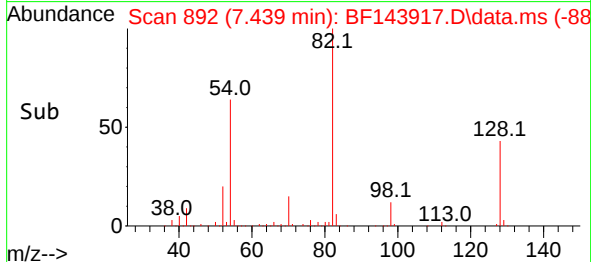
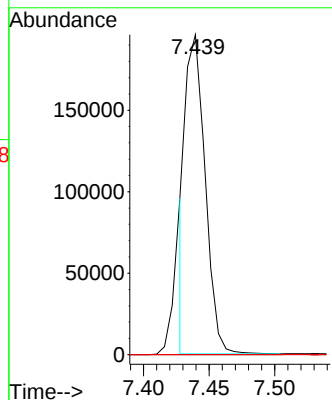
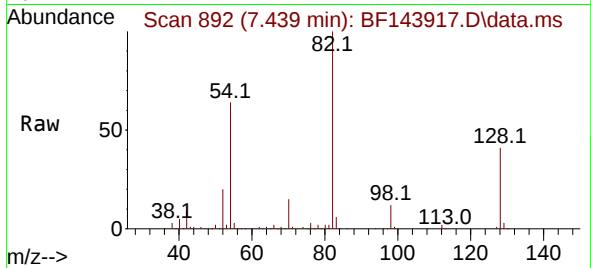




#25  
Isophorone  
Concen: 18.474 ng  
RT: 7.439 min Scan# 89  
Delta R.T. -0.282 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

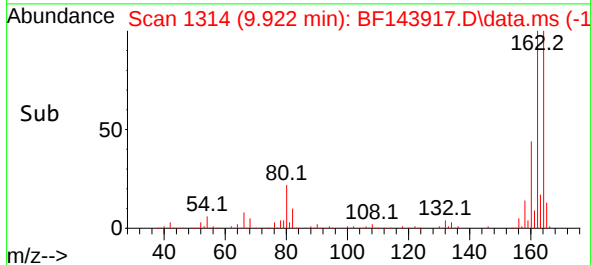
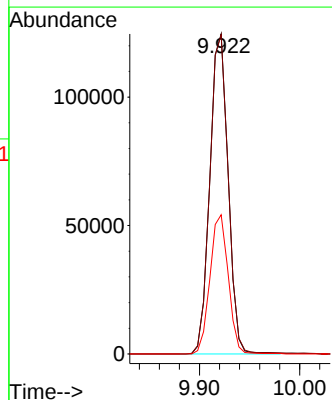
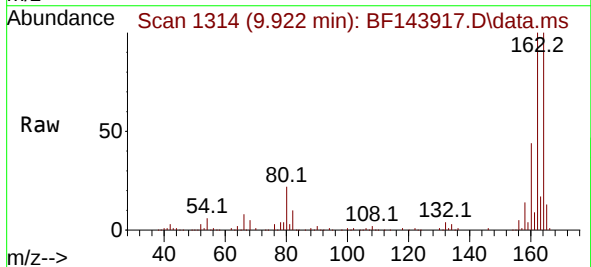
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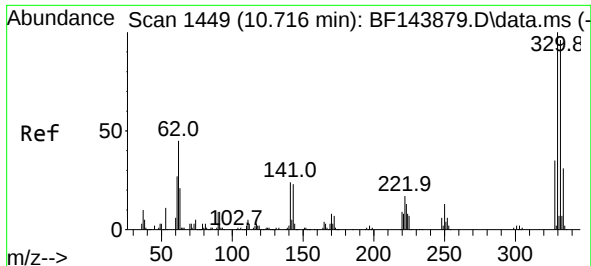
Tgt Ion: 82 Resp: 203159  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.1 7.7#  
138 0.0 12.9 19.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1314  
Delta R.T. -0.005 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

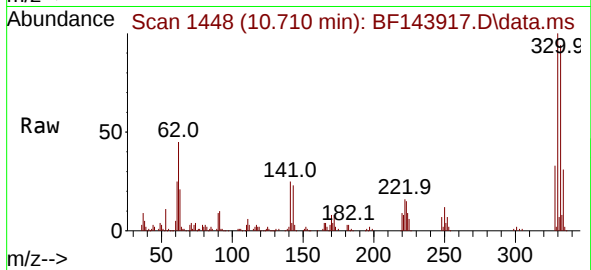
Tgt Ion: 164 Resp: 157998  
Ion Ratio Lower Upper  
164 100  
162 99.8 80.2 120.2  
160 43.5 35.4 53.0



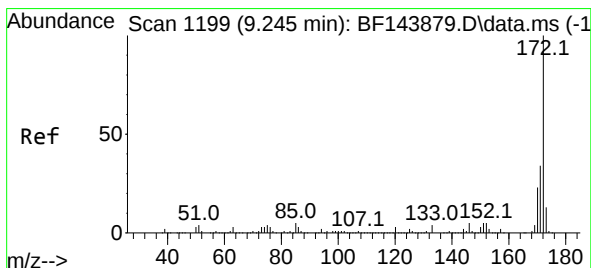
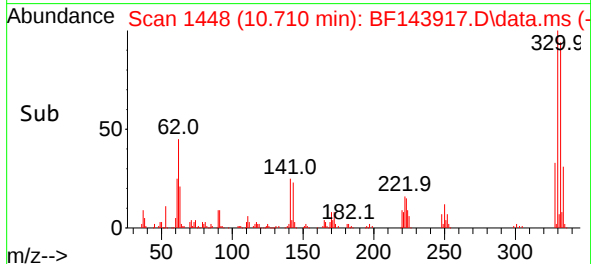
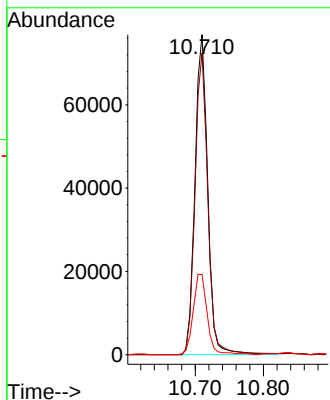


#42  
2,4,6-Tribromophenol  
Concen: 63.596 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

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BNA\_F  
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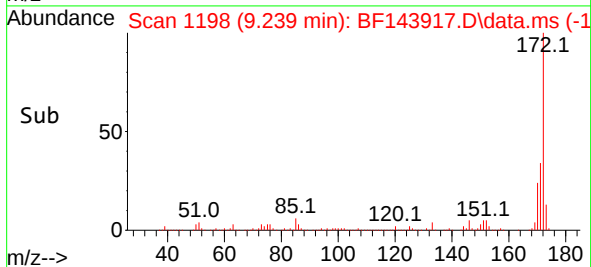
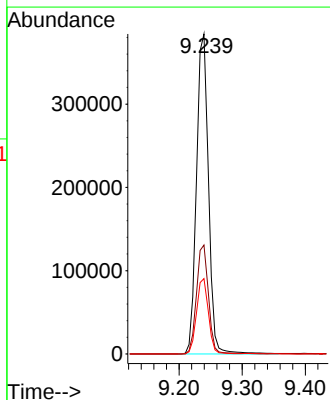
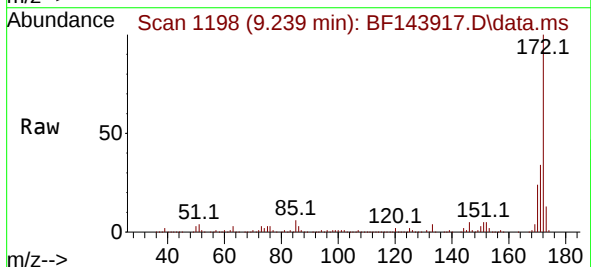


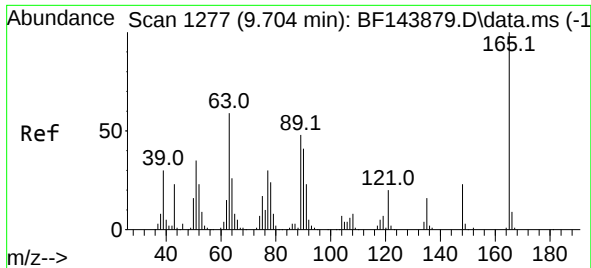
Tgt Ion:330 Resp: 100080  
Ion Ratio Lower Upper  
330 100  
332 94.9 76.9 115.3  
141 27.5 20.2 30.4



#45  
2-Fluorobiphenyl  
Concen: 50.787 ng  
RT: 9.239 min Scan# 1198  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion:172 Resp: 505702  
Ion Ratio Lower Upper  
172 100  
171 34.1 27.4 41.0  
170 23.6 18.6 28.0





#51

2,6-Dinitrotoluene

Concen: 11.125 ng

RT: 9.922 min Scan# 11

Delta R.T. 0.206 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

Instrument :

BNA\_F

ClientSampleId :

72-11989

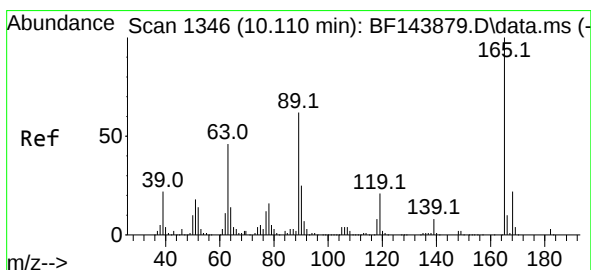
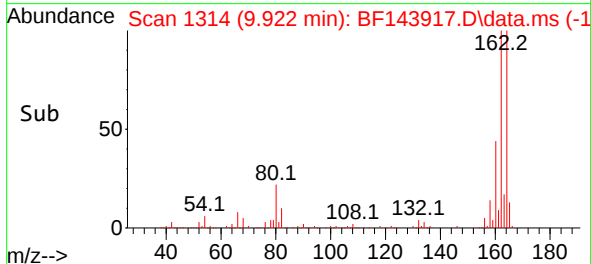
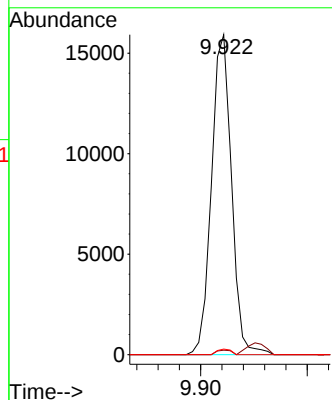
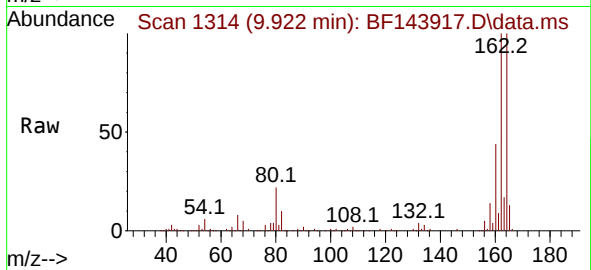
Tgt Ion:165 Resp: 20698

Ion Ratio Lower Upper

165 100

63 1.4 47.3 70.9#

89 1.8 38.2 57.4#



#57

2,4-Dinitrotoluene

Concen: 8.176 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.194 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

Tgt Ion:165 Resp: 20698

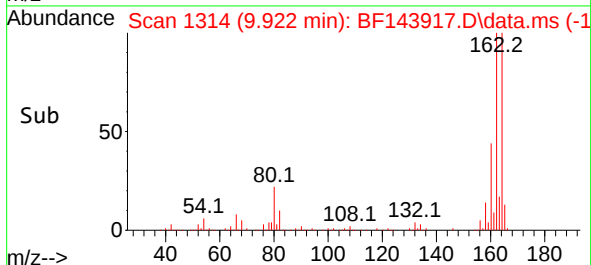
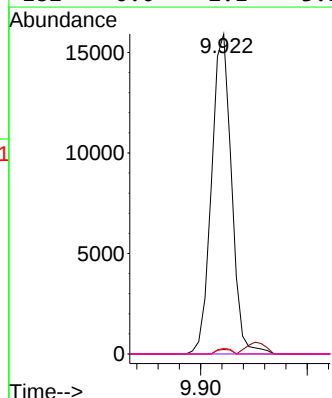
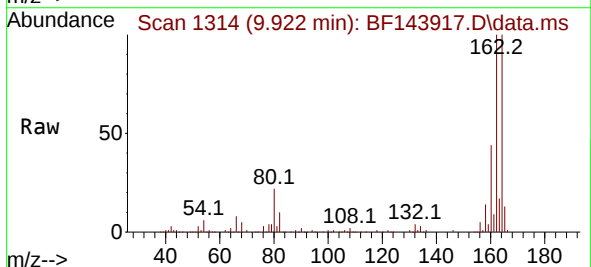
Ion Ratio Lower Upper

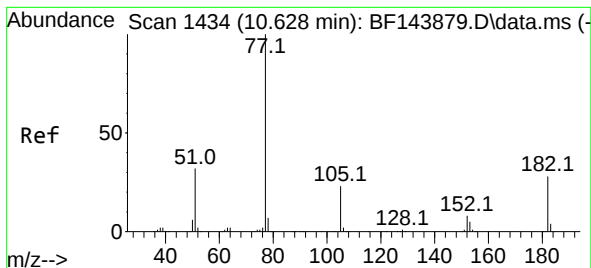
165 100

63 1.4 37.2 55.8#

89 1.8 49.4 74.2#

182 0.0 2.1 3.1#





#63

Azobenzene

Concen: 3.082 ng

RT: 10.633 min Scan# 14

Delta R.T. 0.000 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

Instrument :

BNA\_F

ClientSampleId :

72-11989

Tgt Ion: 77 Resp: 30028

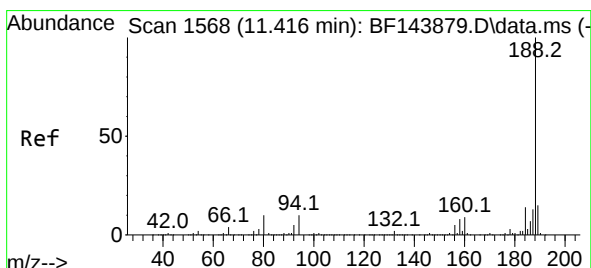
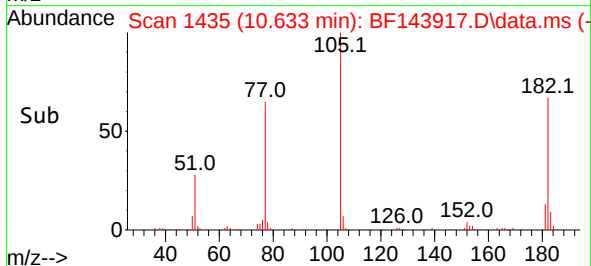
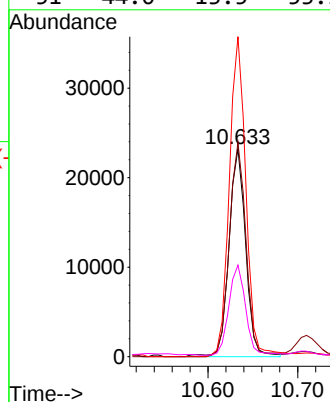
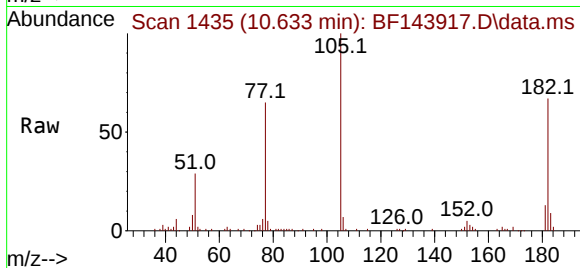
Ion Ratio Lower Upper

77 100

182 103.0 7.3 47.3#

105 154.0 3.0 43.0#

51 44.0 13.5 53.5



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1567

Delta R.T. -0.006 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

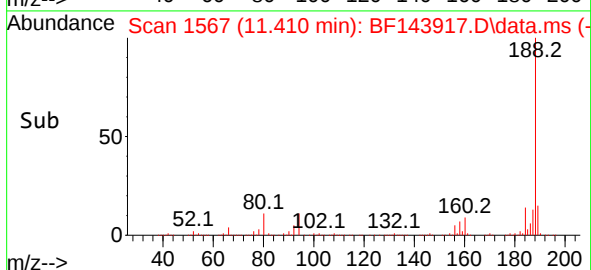
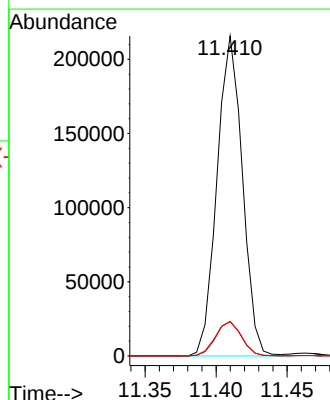
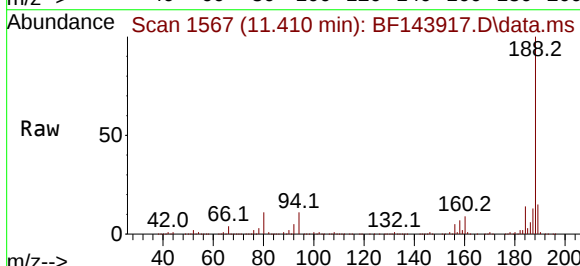
Tgt Ion:188 Resp: 268006

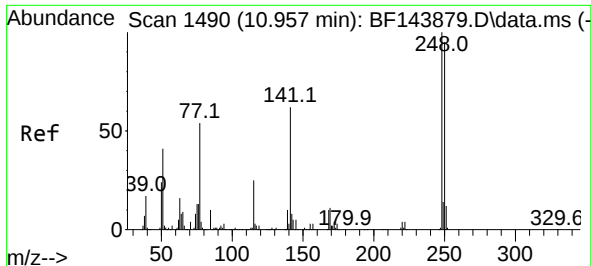
Ion Ratio Lower Upper

188 100

94 10.8 7.8 11.6

80 10.7 7.9 11.9

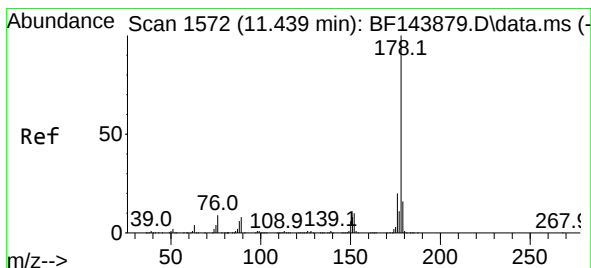
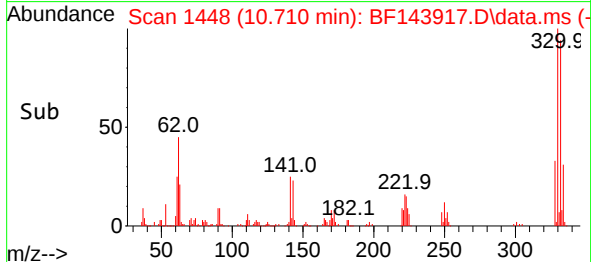
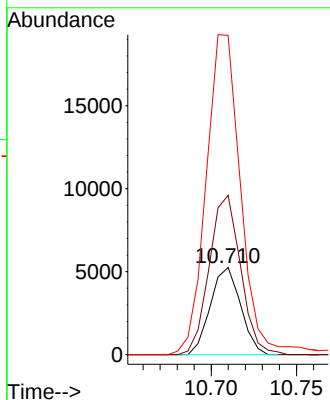
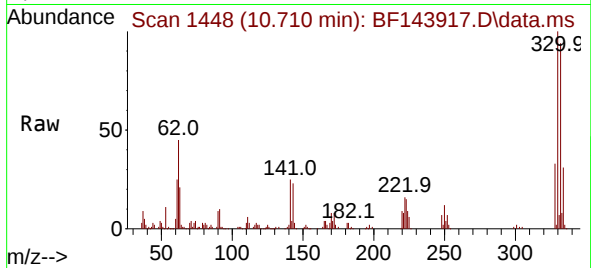




#67  
4-Bromophenyl-phenylether  
Concen: 2.192 ng  
RT: 10.710 min Scan# 1490  
Delta R.T. -0.253 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

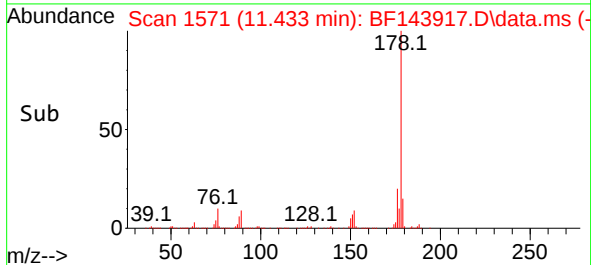
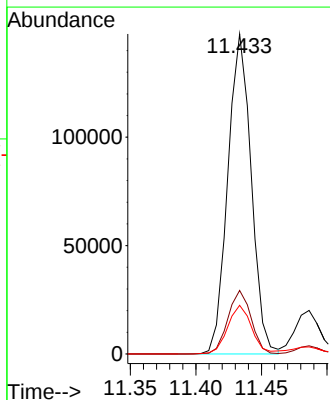
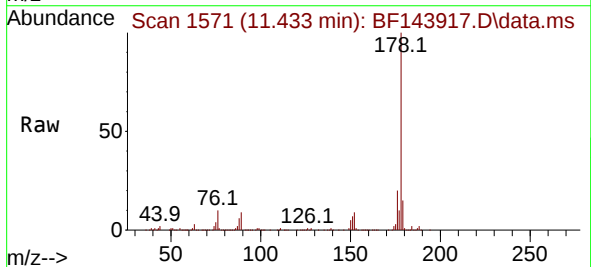
Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

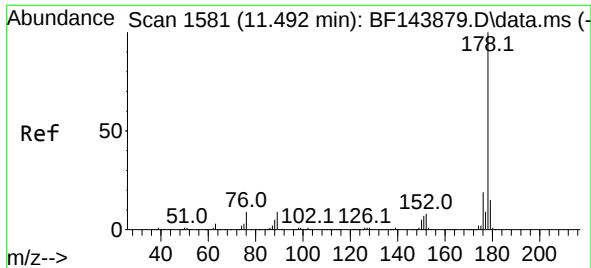
Tgt Ion:248 Resp: 6491  
Ion Ratio Lower Upper  
248 100  
250 182.8 76.3 114.5#  
141 366.3 49.7 74.5#



#71  
Phenanthrene  
Concen: 14.117 ng  
RT: 11.433 min Scan# 1571  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion:178 Resp: 183423  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.9 23.9  
179 15.2 12.4 18.6

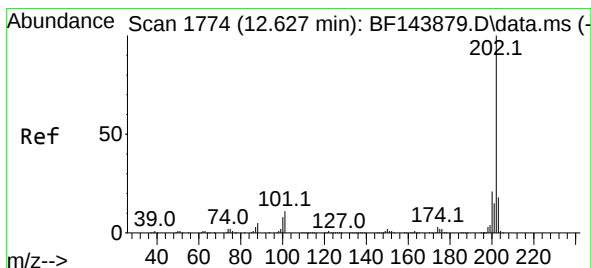
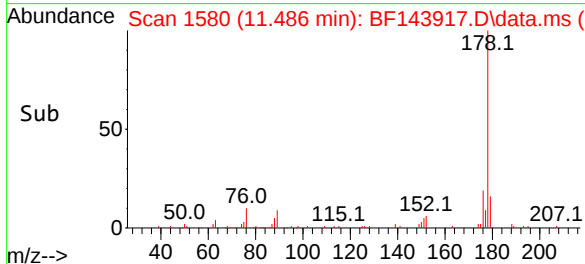
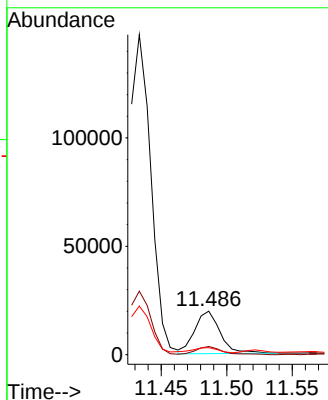
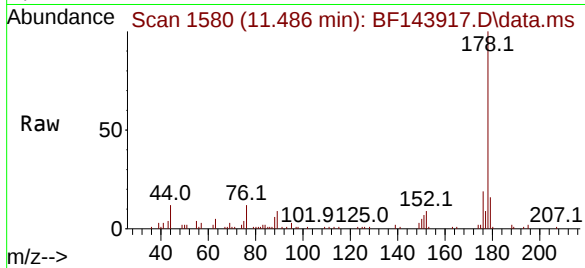




#72  
Anthracene  
Concen: 2.020 ng  
RT: 11.486 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

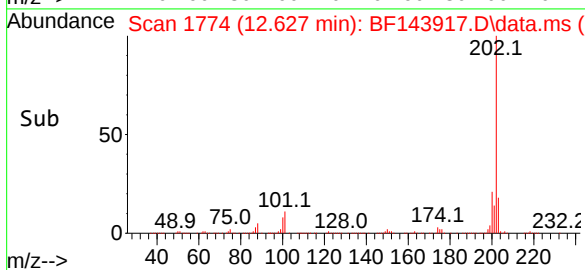
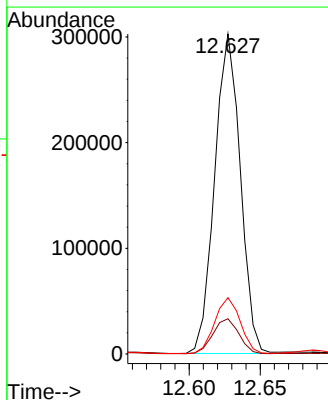
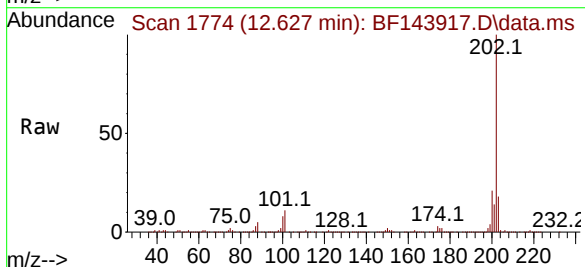
Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

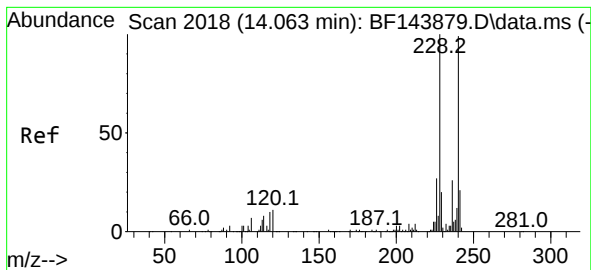
Tgt Ion:178 Resp: 26517  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.9 22.3  
179 16.4 12.2 18.2



#75  
Fluoranthene  
Concen: 28.287 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion:202 Resp: 379632  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 30.7  
203 17.6 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 20

Delta R.T. -0.011 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

Instrument :

BNA\_F

ClientSampleId :

72-11989

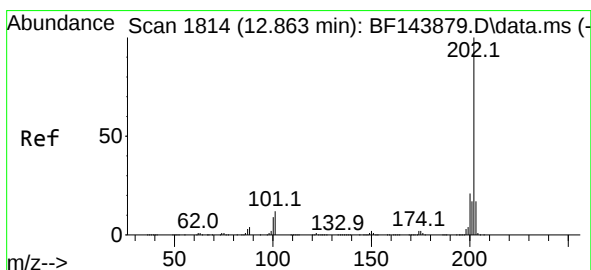
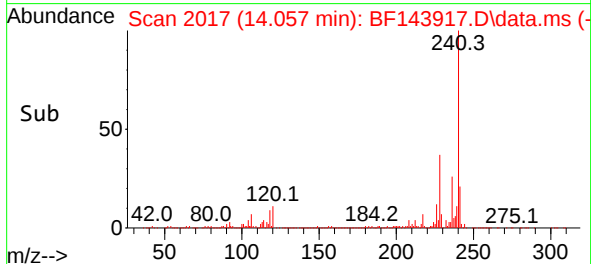
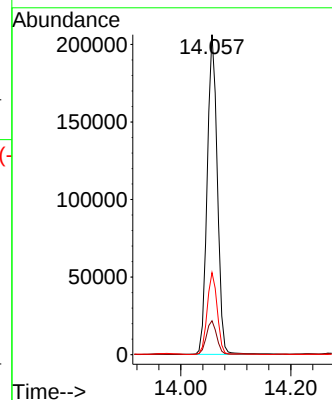
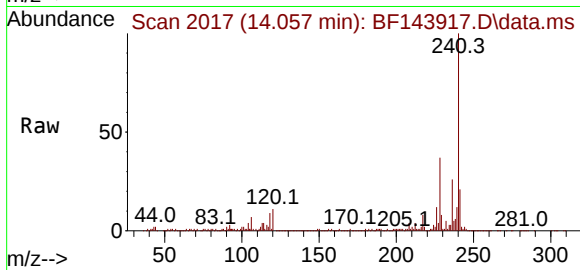
Tgt Ion:240 Resp: 263919

Ion Ratio Lower Upper

240 100

120 10.6 8.6 13.0

236 25.7 21.1 31.7



#78

Pyrene

Concen: 16.674 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

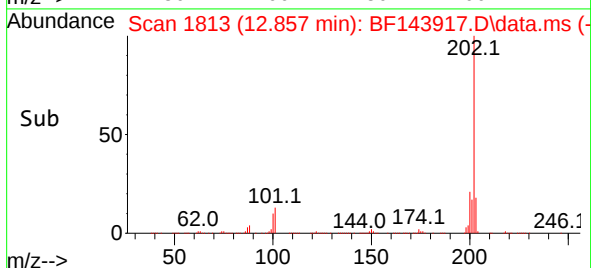
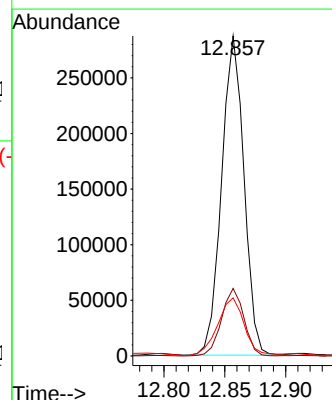
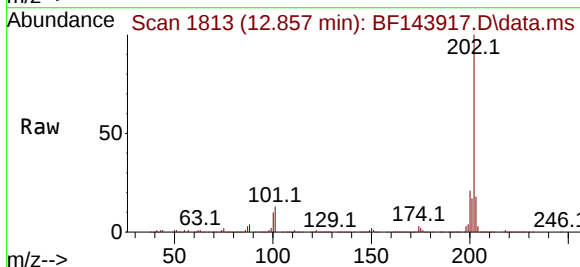
Tgt Ion:202 Resp: 366873

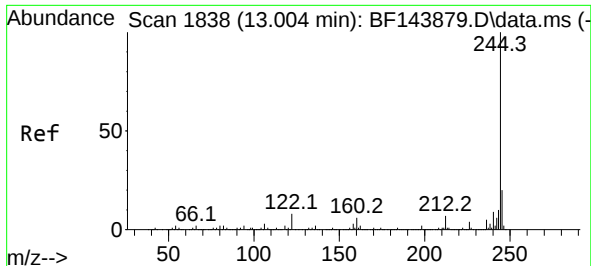
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.6

203 18.1 13.8 20.6

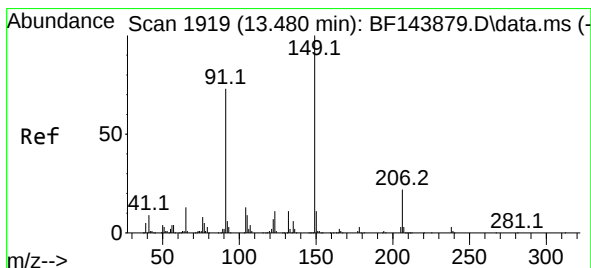
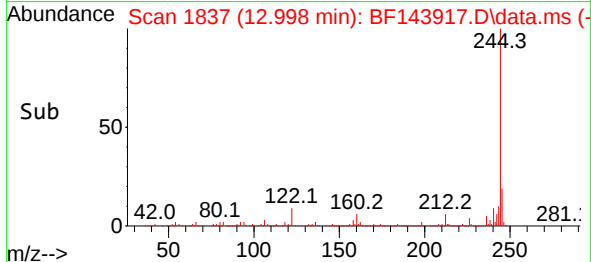
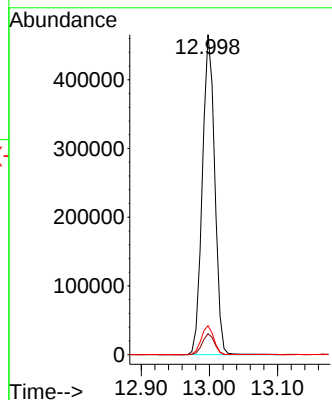
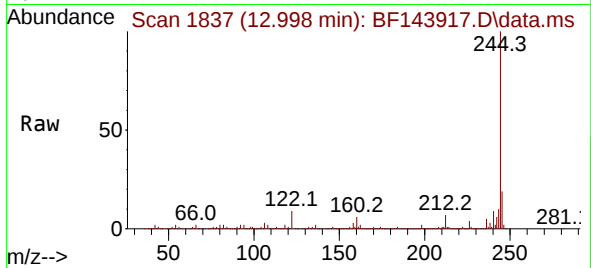




#79  
 Terphenyl-d14  
 Concen: 38.121 ng  
 RT: 12.998 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BF143917.D  
 Acq: 09 Oct 2025 19:13

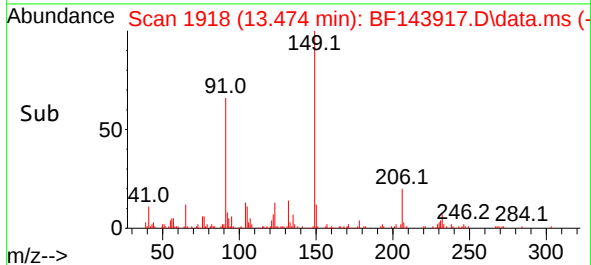
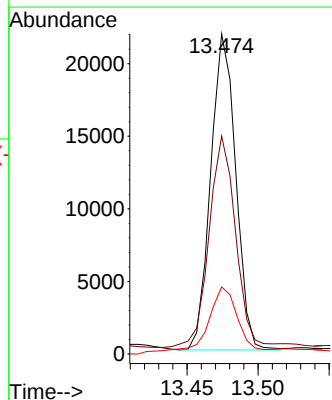
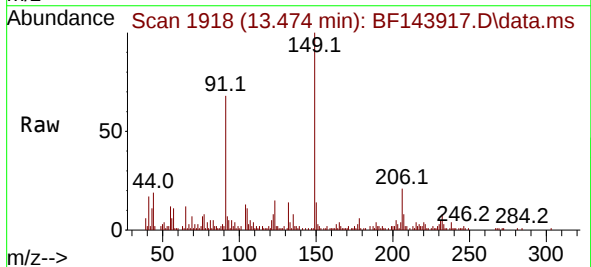
Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11989

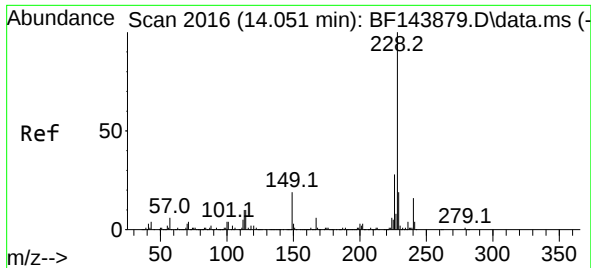
Tgt Ion:244 Resp: 588665  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 5.4 8.0  
 122 9.0 6.4 9.6



#80  
 Butylbenzylphthalate  
 Concen: 3.741 ng  
 RT: 13.474 min Scan# 1918  
 Delta R.T. -0.006 min  
 Lab File: BF143917.D  
 Acq: 09 Oct 2025 19:13

Tgt Ion:149 Resp: 26734  
 Ion Ratio Lower Upper  
 149 100  
 91 68.1 58.2 87.2  
 206 20.9 17.9 26.9

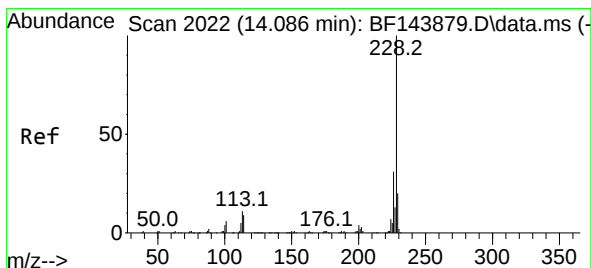
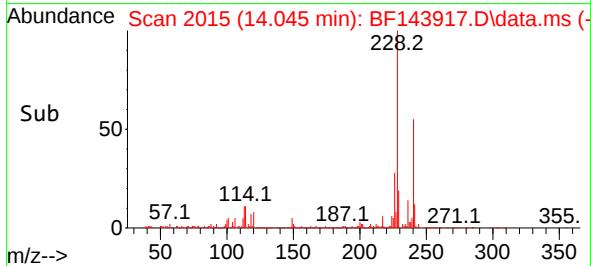
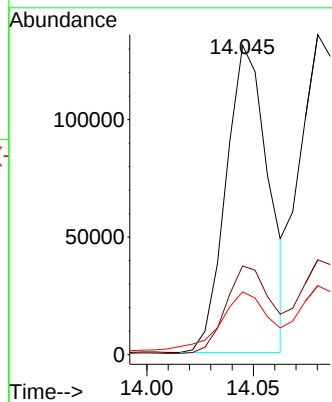
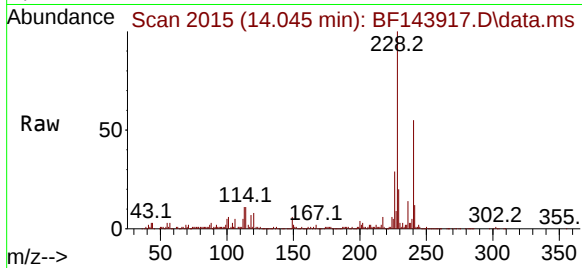




#81  
Benzo(a)anthracene  
Concen: 10.457 ng  
RT: 14.045 min Scan# 20  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

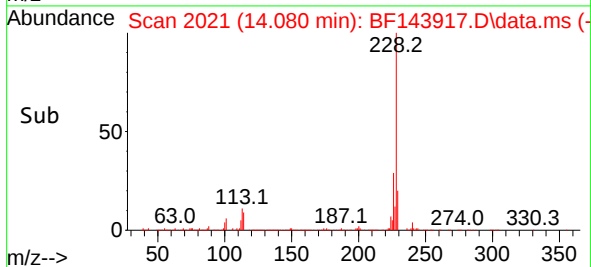
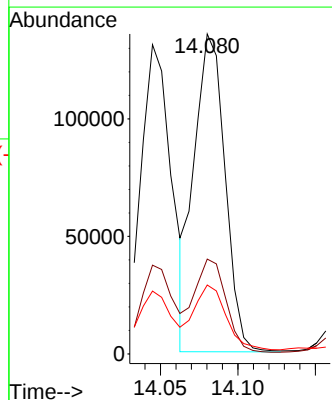
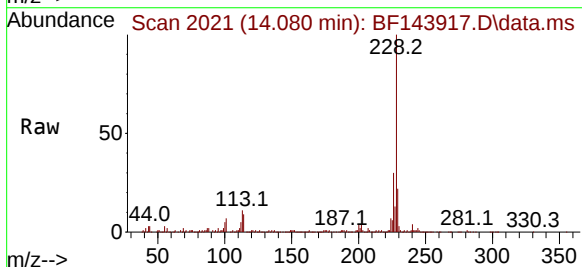
Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

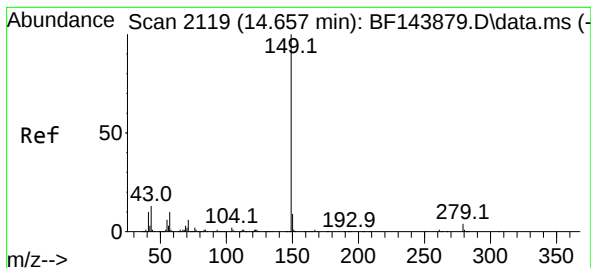
Tgt Ion:228 Resp: 180597  
Ion Ratio Lower Upper  
228 100  
226 28.7 22.2 33.2  
229 20.3 15.6 23.4



#83  
Chrysene  
Concen: 11.727 ng  
RT: 14.080 min Scan# 2021  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion:228 Resp: 187451  
Ion Ratio Lower Upper  
228 100  
226 29.7 24.4 36.6  
229 21.6 15.9 23.9





#85

Di-n-octyl phthalate

Concen: 2.528 ng

RT: 14.657 min Scan# 2119

Delta R.T. 0.000 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

Instrument :

BNA\_F

ClientSampleId :

72-11989

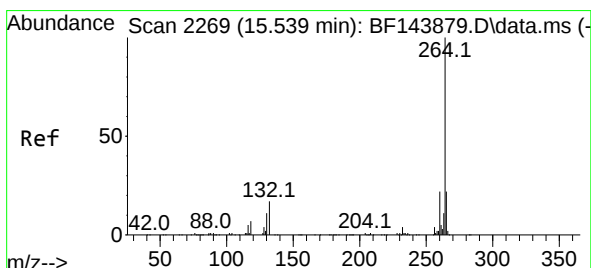
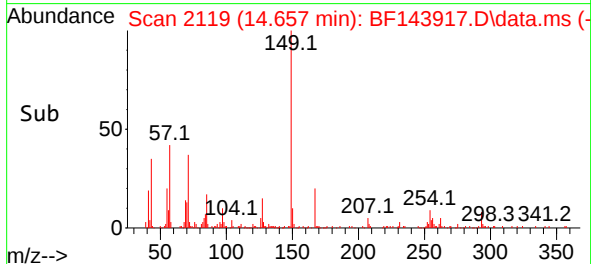
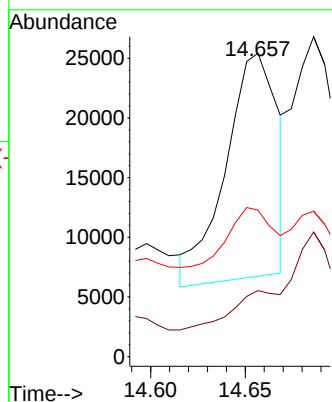
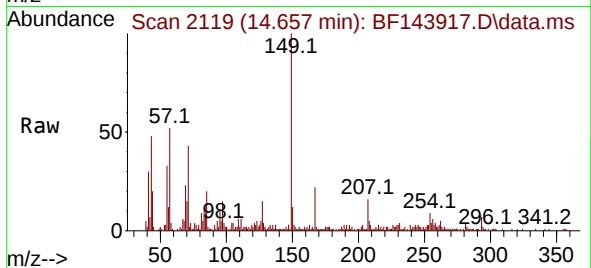
Tgt Ion:149 Resp: 35760

Ion Ratio Lower Upper

149 100

167 0.0 1.1 1.7#

43 22.3 11.0 16.4#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

Delta R.T. -0.006 min

Lab File: BF143917.D

Acq: 09 Oct 2025 19:13

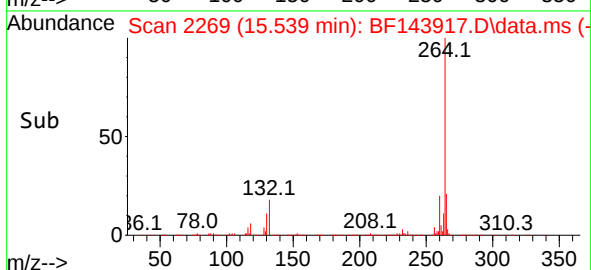
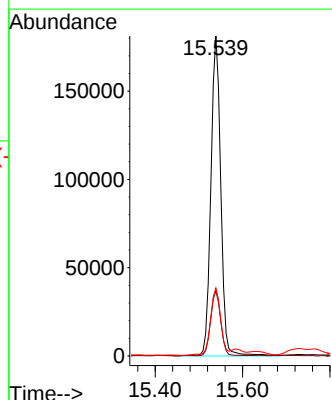
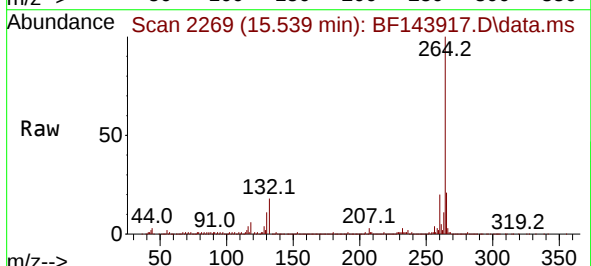
Tgt Ion:264 Resp: 285971

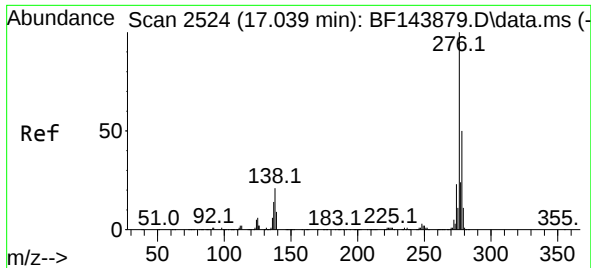
Ion Ratio Lower Upper

264 100

260 20.2 17.8 26.8

265 21.2 17.5 26.3

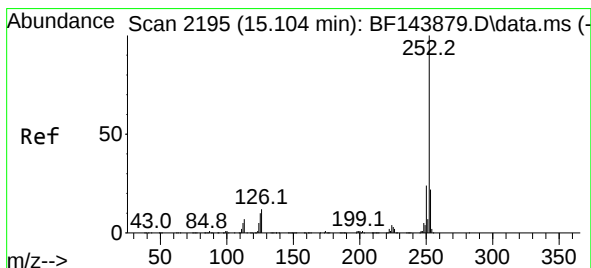
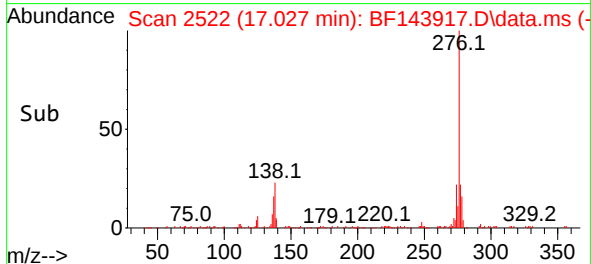
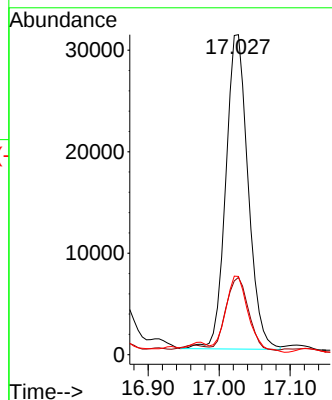
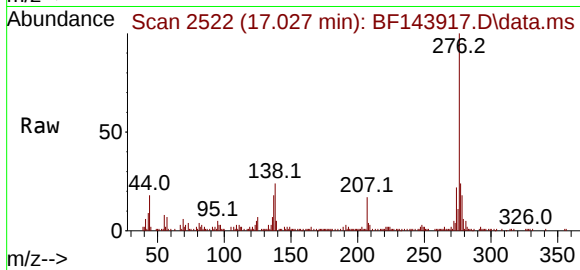




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.860 ng  
RT: 17.027 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

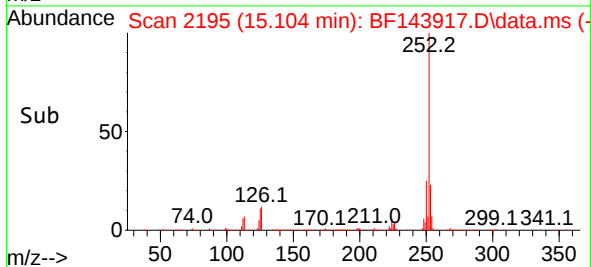
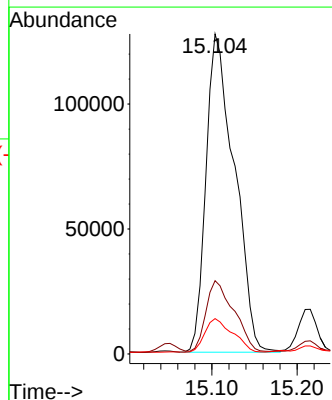
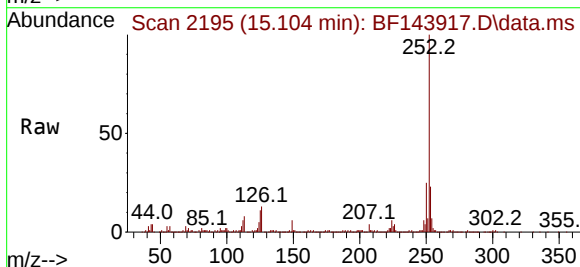
Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

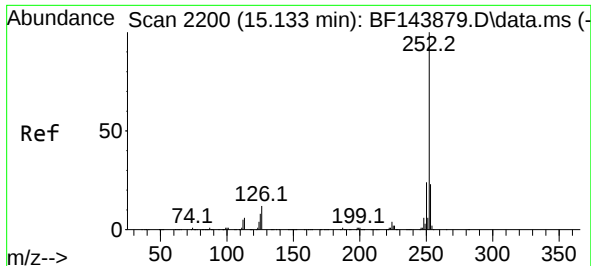
Tgt Ion:276 Resp: 67630  
Ion Ratio Lower Upper  
276 100  
138 23.3 18.2 27.2  
277 24.9 19.8 29.6



#88  
Benzo(b)fluoranthene  
Concen: 17.974 ng  
RT: 15.104 min Scan# 2195  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion:252 Resp: 295260  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.4 26.2  
125 11.0 7.8 11.6

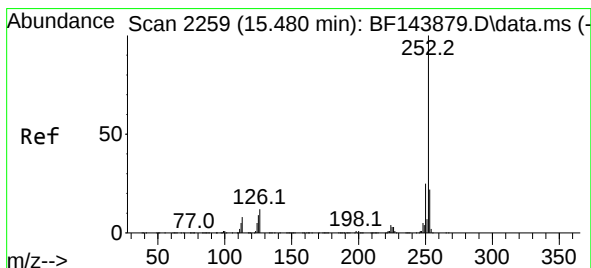
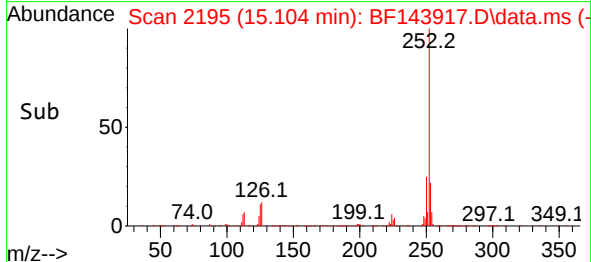
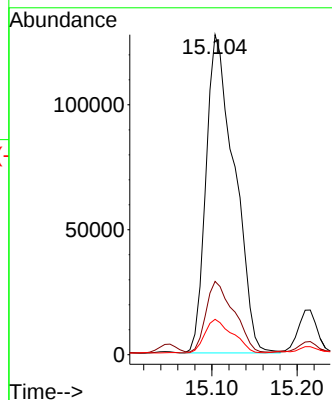
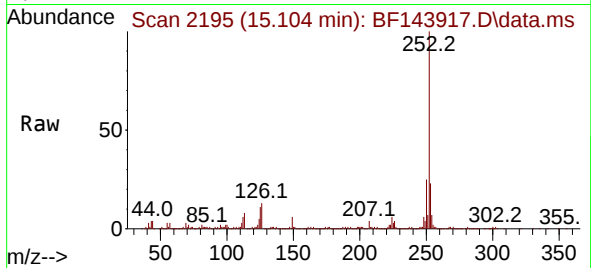




#89  
Benzo(k)fluoranthene  
Concen: 19.425 ng  
RT: 15.104 min Scan# 21  
Delta R.T. -0.041 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

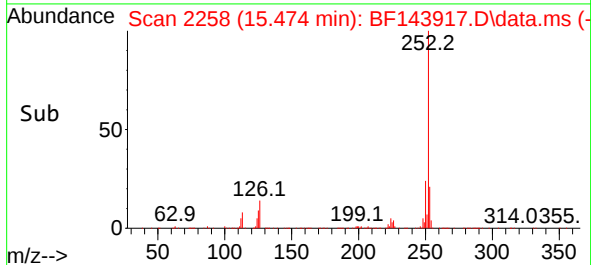
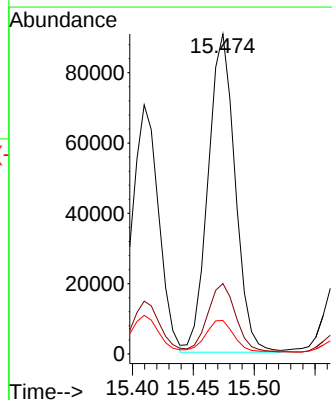
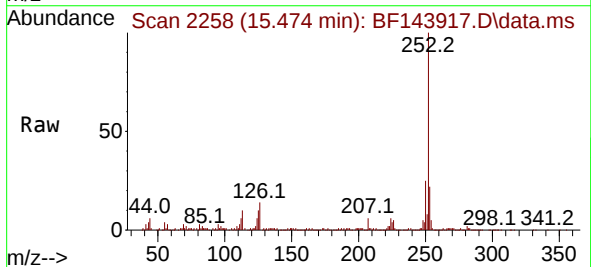
Instrument :  
BNA\_F  
ClientSampleId :  
72-11989

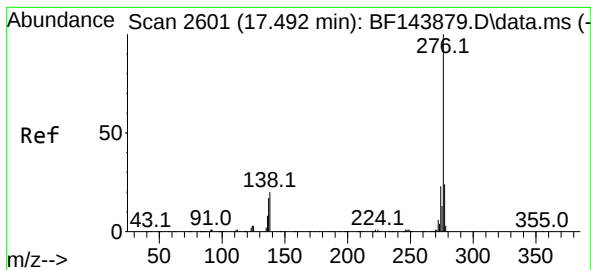
Tgt Ion:252 Resp: 295260  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.8 26.8  
125 11.0 7.4 11.2



#90  
Benzo(a)pyrene  
Concen: 9.821 ng  
RT: 15.474 min Scan# 2258  
Delta R.T. -0.012 min  
Lab File: BF143917.D  
Acq: 09 Oct 2025 19:13

Tgt Ion:252 Resp: 139884  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.3 25.9  
125 10.5 7.0 10.4#





#92

Benzo(g,h,i)perylene

Concen: 4.572 ng

RT: 17.474 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF143917.D

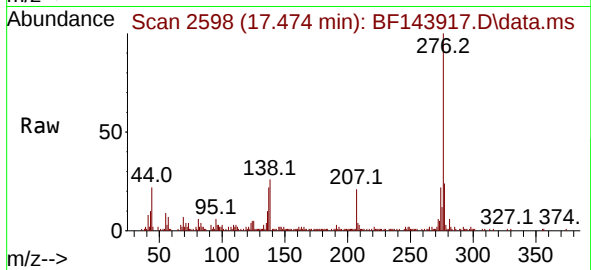
Acq: 09 Oct 2025 19:13

Instrument :

BNA\_F

ClientSampleId :

72-11989



Tgt Ion:276 Resp: 64439

Ion Ratio Lower Upper

276 100

277 23.6 19.0 28.6

138 26.2 16.1 24.1#

