

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081925\  
 Data File : BF143454.D  
 Acq On : 19 Aug 2025 13:59  
 Operator : RC/JU  
 Sample : Q2879-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OU4-TS-GRILLO-TSCP06-081425

Quant Time: Aug 19 14:23:59 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 18 04:40:19 2025  
 Response via : Initial Calibration

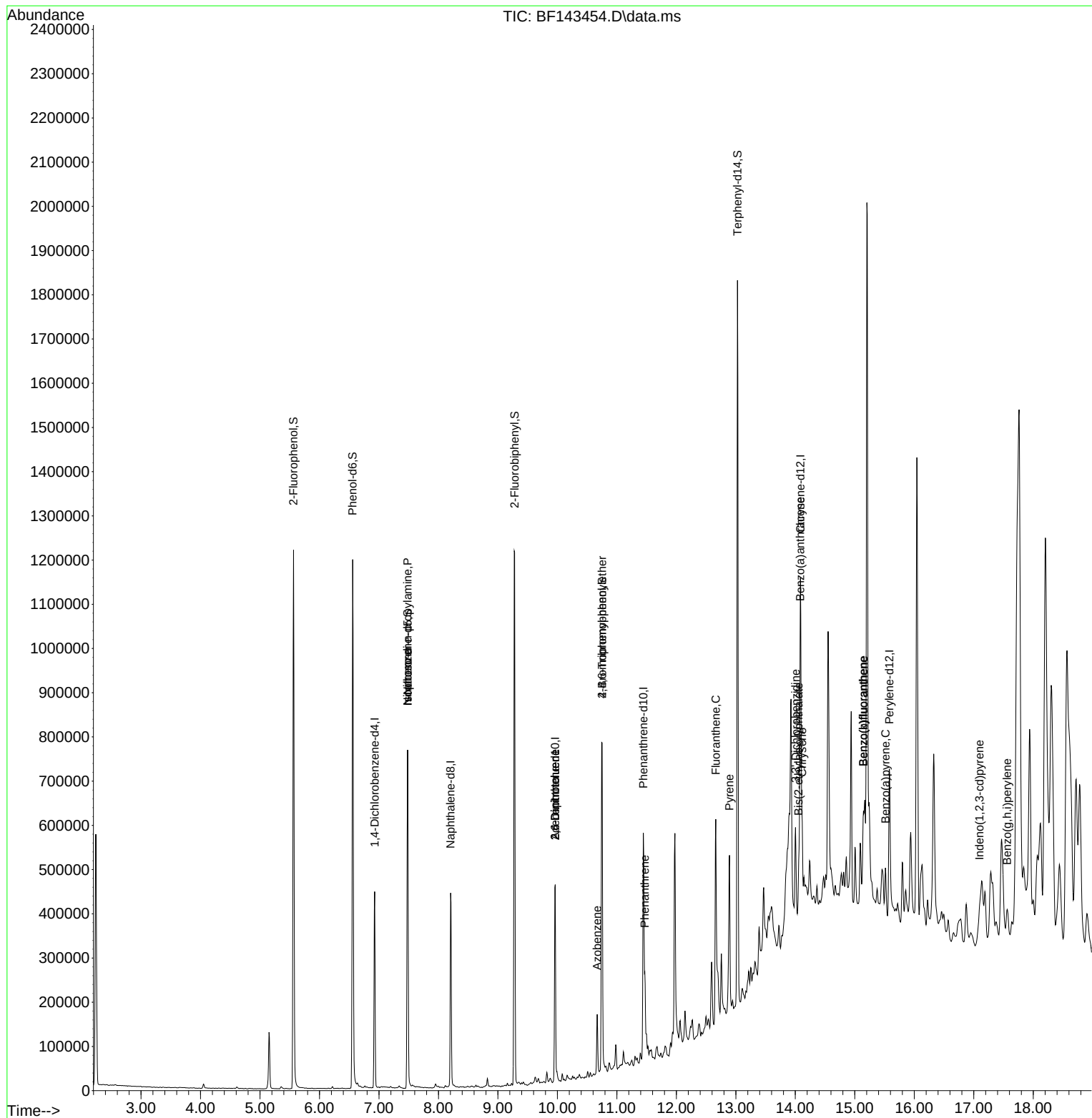
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.928  | 152  | 93502    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.204  | 136  | 282085   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.963  | 164  | 137092   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.445 | 188  | 259400   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.086 | 240  | 307100   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.580 | 264  | 179616   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.563  | 112  | 441466   | 82.074  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.557  | 99   | 544998   | 80.400  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.481  | 82   | 320998   | 67.525  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.751 | 330  | 131990   | 108.169 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.281  | 172  | 548973   | 67.354  | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.027 | 244  | 797904   | 43.646  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.481  | 70   | 44009    | 10.487  | ng    | # 78     |
| 25) Isophorone                | 7.481  | 82   | 319815   | 35.151  | ng    | # 65     |
| 51) 2,6-Dinitrotoluene        | 9.963  | 165  | 18039    | 10.706  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene        | 9.963  | 165  | 18095    | 8.055   | ng    | # 25     |
| 63) Azobenzene                | 10.669 | 77   | 31264    | 3.916   | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.751 | 248  | 8954     | 2.923   | ng    | # 1      |
| 71) Phenanthrene              | 11.469 | 178  | 87046    | 6.197   | ng    | 100      |
| 75) Fluoranthene              | 12.663 | 202  | 237722   | 19.046  | ng    | 99       |
| 78) Pyrene                    | 12.892 | 202  | 206472   | 7.735   | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.080 | 228  | 129626   | 6.630   | ng    | 95       |
| 82) 3,3'-Dichlorobenzidine    | 14.004 | 252  | 61952    | 10.822  | ng    | # 34     |
| 83) Chrysene                  | 14.116 | 228  | 114265   | 6.322   | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 14.057 | 149  | 40670    | 4.332   | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.098 | 276  | 38371    | 2.849   | ng    | 93       |
| 88) Benzo(b)fluoranthene      | 15.145 | 252  | 142997   | 14.854  | ng    | # 91     |
| 89) Benzo(k)fluoranthene      | 15.145 | 252  | 142997   | 15.060  | ng    | # 91     |
| 90) Benzo(a)pyrene            | 15.515 | 252  | 59661    | 6.507   | ng    | # 92     |
| 92) Benzo(g,h,i)perylene      | 17.562 | 276  | 38729    | 3.584   | ng    | 94       |
| -----                         |        |      |          |         |       |          |

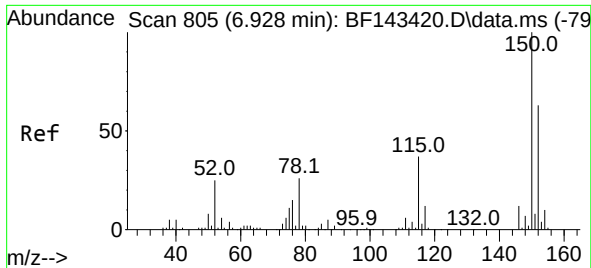
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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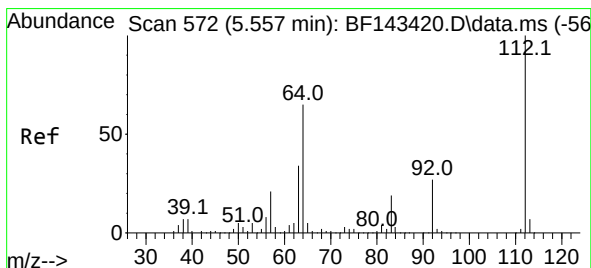
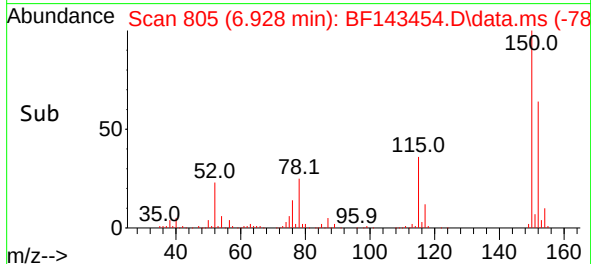
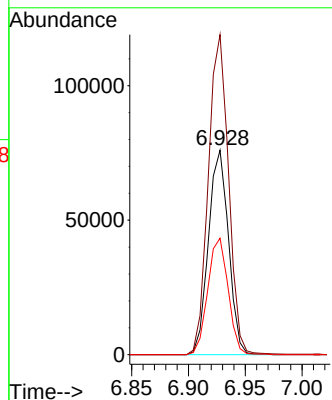
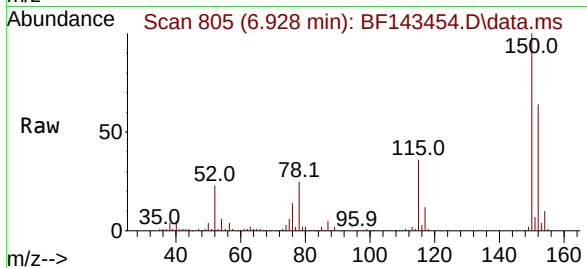




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.928 min Scan# 805  
 Delta R.T. -0.000 min  
 Lab File: BF143454.D  
 Acq: 19 Aug 2025 13:59

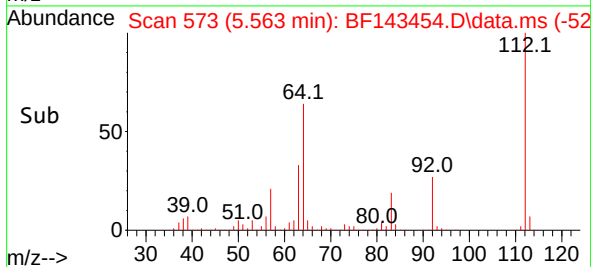
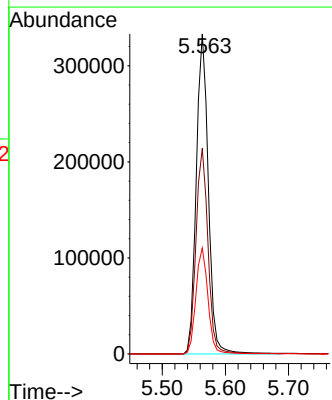
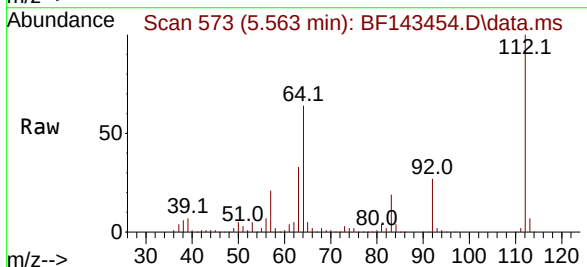
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OU4-TS-GRILLO-TSCP06-081425

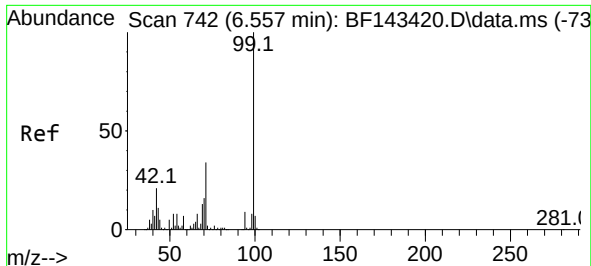
Tgt Ion:152 Resp: 93502  
 Ion Ratio Lower Upper  
 152 100  
 150 156.5 127.4 191.2  
 115 57.0 47.5 71.3



#5  
 2-Fluorophenol  
 Concen: 82.074 ng  
 RT: 5.563 min Scan# 573  
 Delta R.T. 0.006 min  
 Lab File: BF143454.D  
 Acq: 19 Aug 2025 13:59

Tgt Ion:112 Resp: 441466  
 Ion Ratio Lower Upper  
 112 100  
 64 64.3 52.2 78.2  
 63 33.2 27.0 40.6

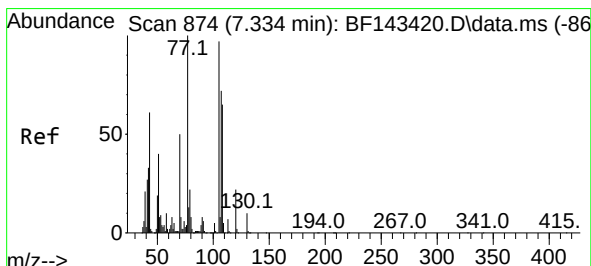
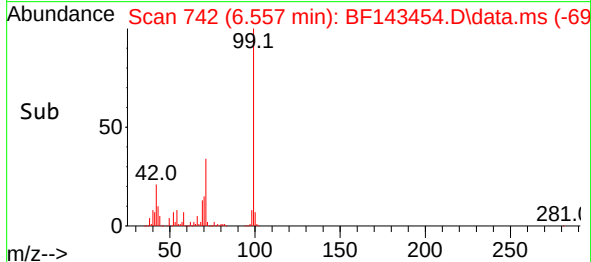
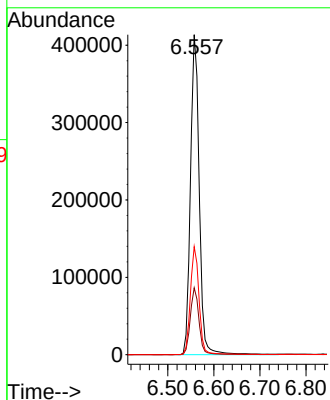
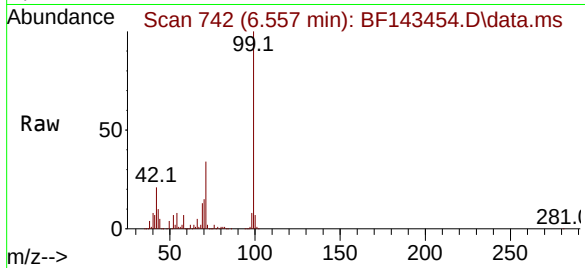




#7  
Phenol-d6  
Concen: 80.400 ng  
RT: 6.557 min Scan# 742  
Delta R.T. -0.000 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

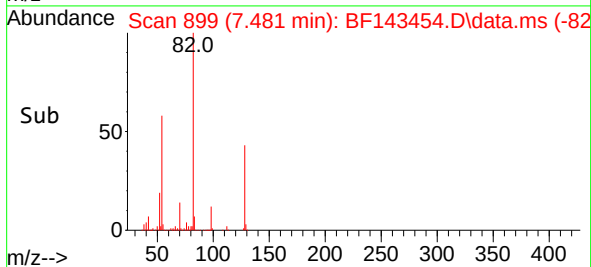
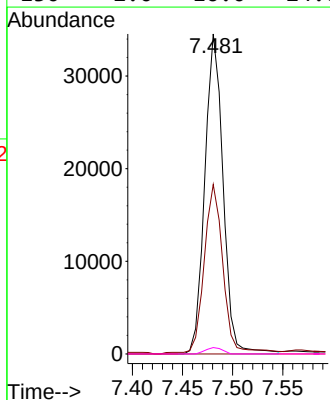
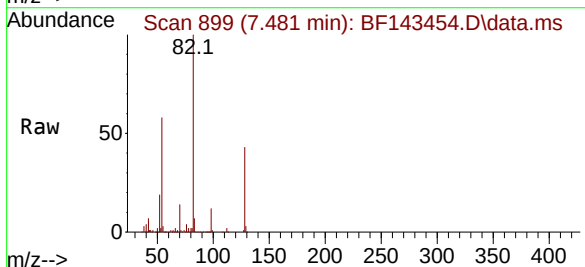
Instrument :  
BNA\_F  
ClientSampleId :  
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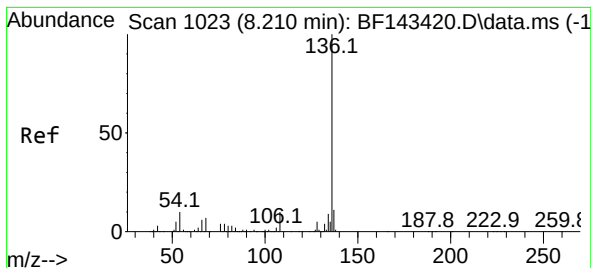
Tgt Ion: 99 Resp: 544998  
Ion Ratio Lower Upper  
99 100  
42 20.9 17.0 25.6  
71 33.8 27.4 41.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.487 ng  
RT: 7.481 min Scan# 899  
Delta R.T. 0.147 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

Tgt Ion: 70 Resp: 44009  
Ion Ratio Lower Upper  
70 100  
42 52.9 52.5 78.7  
101 0.0 7.9 11.9#  
130 2.0 16.0 24.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.204 min Scan# 1023

Delta R.T. -0.006 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

Tgt Ion:136 Resp: 282085

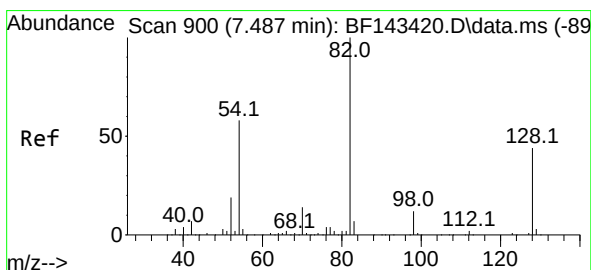
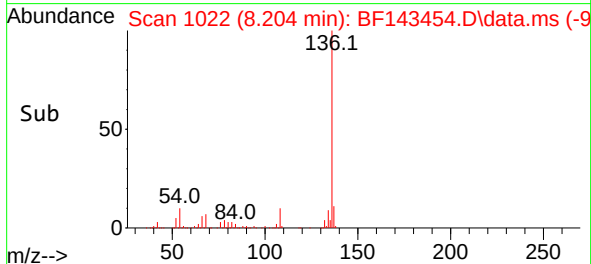
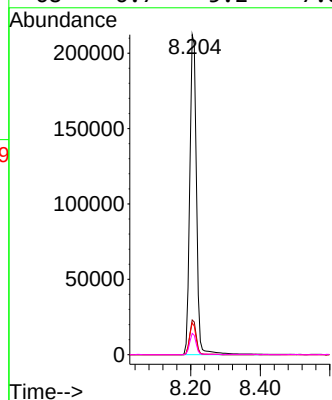
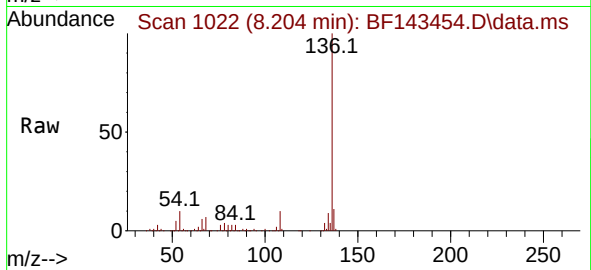
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 10.0 7.8 11.8

68 6.7 5.2 7.8



#23

Nitrobenzene-d5

Concen: 67.525 ng

RT: 7.481 min Scan# 899

Delta R.T. -0.006 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

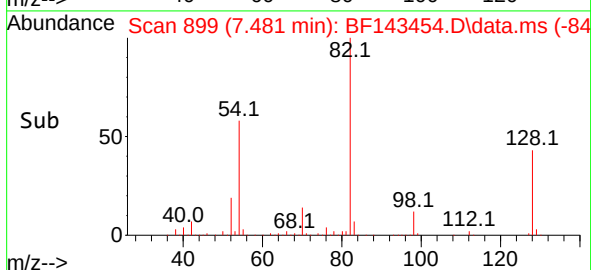
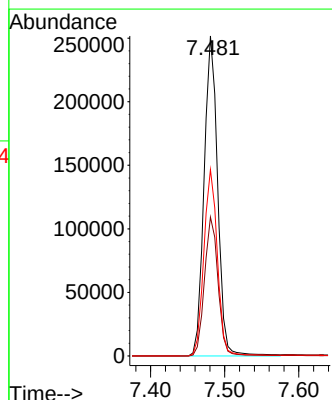
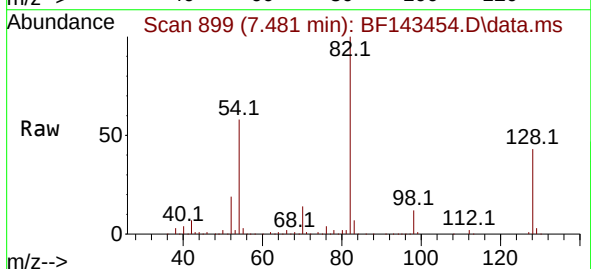
Tgt Ion: 82 Resp: 320998

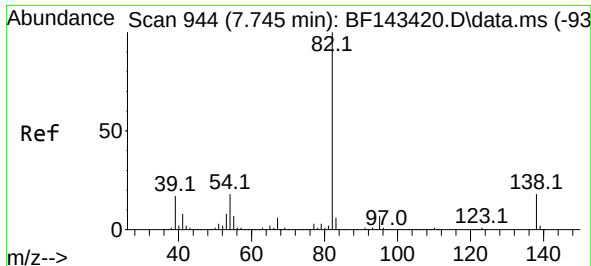
Ion Ratio Lower Upper

82 100

128 43.4 34.6 52.0

54 58.3 46.0 69.0

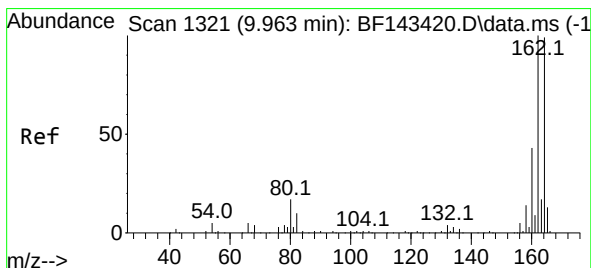
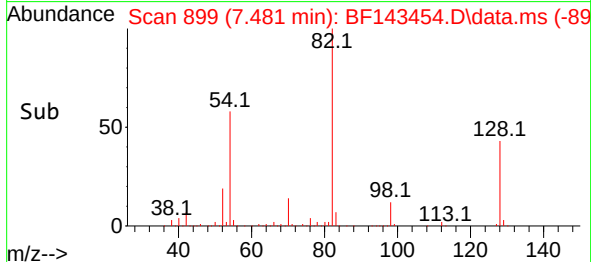
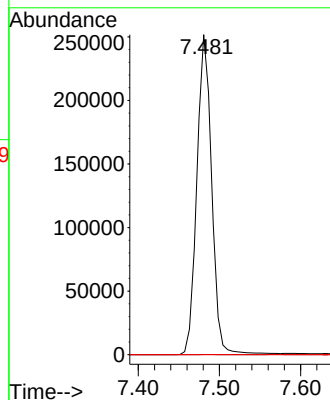
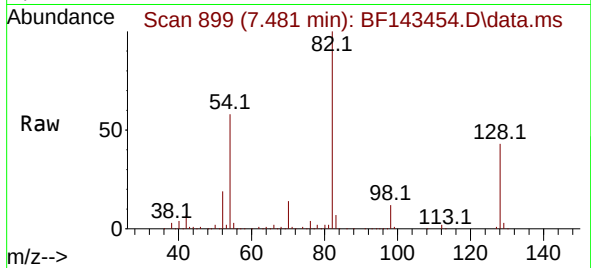




#25  
Isophorone  
Concen: 35.151 ng  
RT: 7.481 min Scan# 899  
Delta R.T. -0.265 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

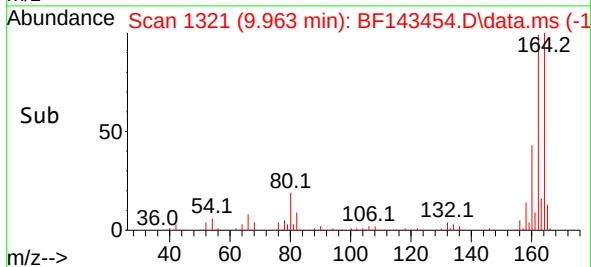
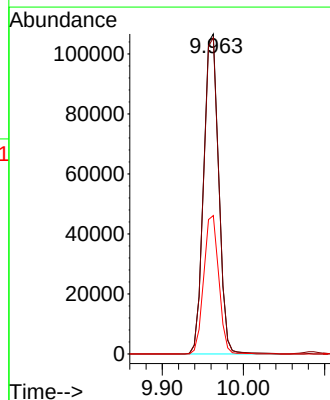
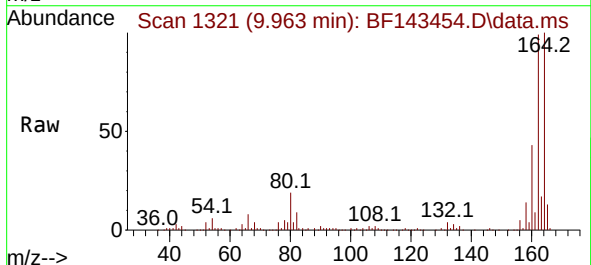
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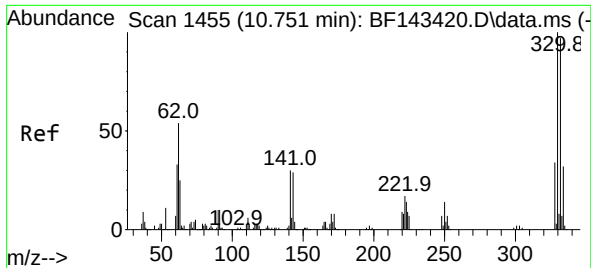
Tgt Ion: 82 Resp: 319815  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.6 8.4#  
138 0.0 14.3 21.5#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.963 min Scan# 1321  
Delta R.T. -0.000 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

Tgt Ion:164 Resp: 137092  
Ion Ratio Lower Upper  
164 100  
162 98.8 80.6 121.0  
160 43.2 34.6 51.8

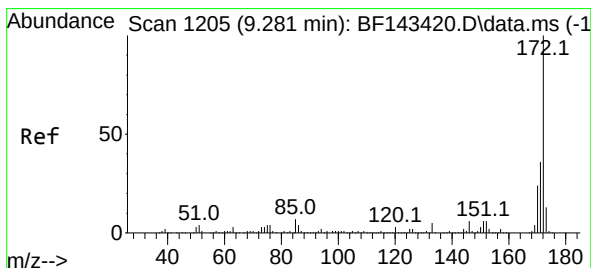
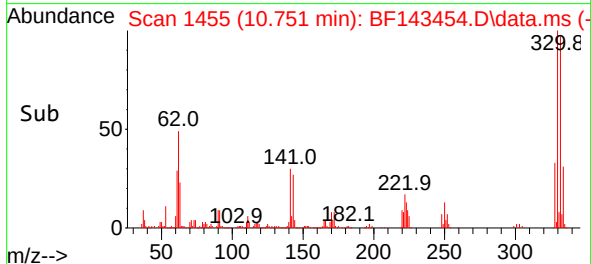
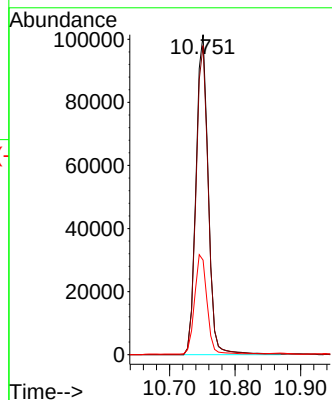
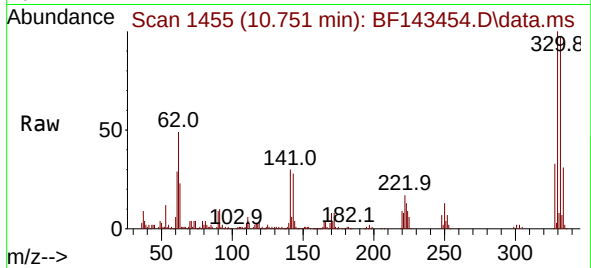




#42  
 2,4,6-Tribromophenol  
 Concen: 108.169 ng  
 RT: 10.751 min Scan# 1455  
 Delta R.T. -0.000 min  
 Lab File: BF143454.D  
 Acq: 19 Aug 2025 13:59

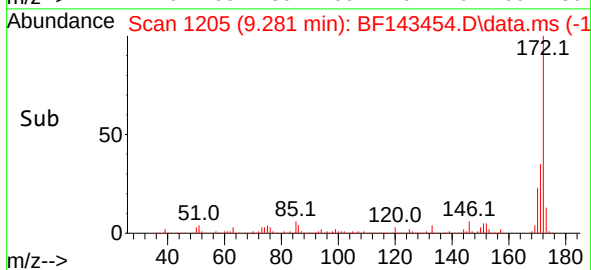
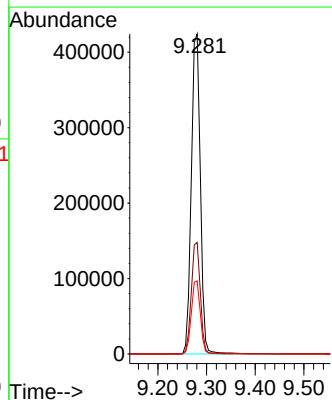
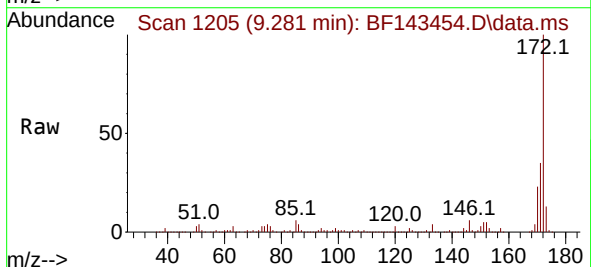
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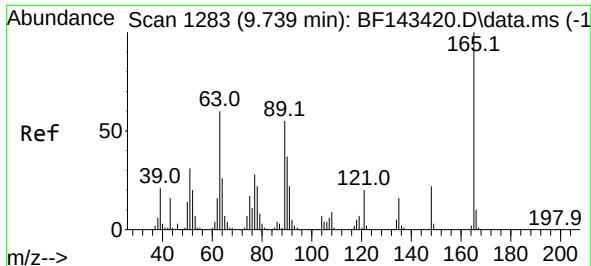
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|----------|-------|-------|--------|
| Tgt Ion: | 330   | Resp: | 131990 |
| Ion      | Ratio | Lower | Upper  |
| 330      | 100   |       |        |
| 332      | 96.8  | 77.4  | 116.2  |
| 141      | 31.4  | 24.1  | 36.1   |



#45  
 2-Fluorobiphenyl  
 Concen: 67.354 ng  
 RT: 9.281 min Scan# 1205  
 Delta R.T. -0.000 min  
 Lab File: BF143454.D  
 Acq: 19 Aug 2025 13:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 548973 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 34.8  | 28.7  | 43.1   |
| 170      | 22.9  | 19.0  | 28.6   |





#51

2,6-Dinitrotoluene

Concen: 10.706 ng

RT: 9.963 min Scan# 11

Delta R.T. 0.223 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

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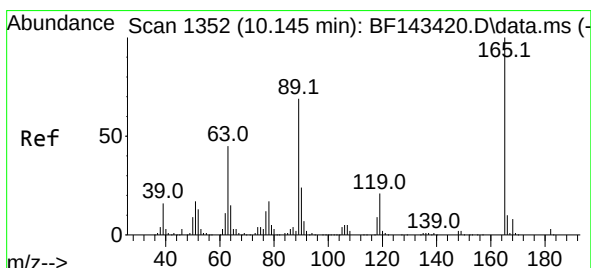
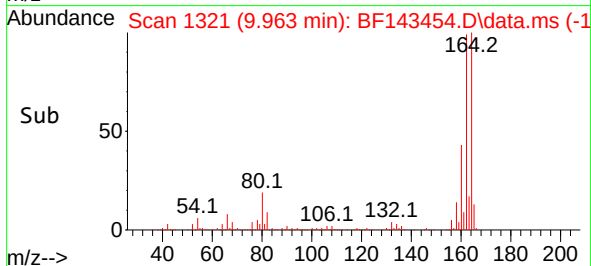
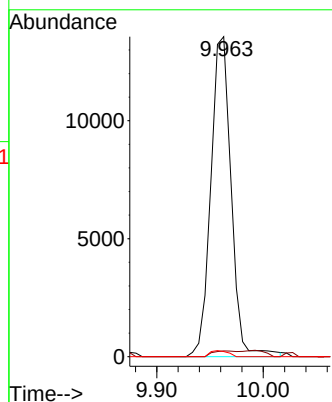
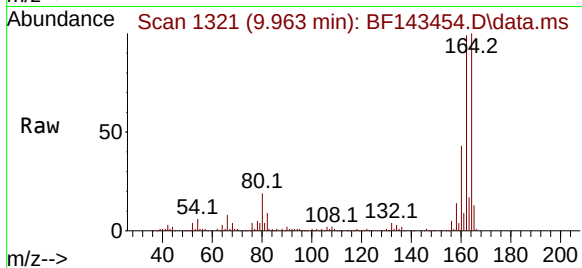
Tgt Ion:165 Resp: 18039

Ion Ratio Lower Upper

165 100

63 1.8 48.2 72.2#

89 1.6 44.2 66.2#



#57

2,4-Dinitrotoluene

Concen: 8.055 ng

RT: 9.963 min Scan# 1321

Delta R.T. -0.182 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Tgt Ion:165 Resp: 18095

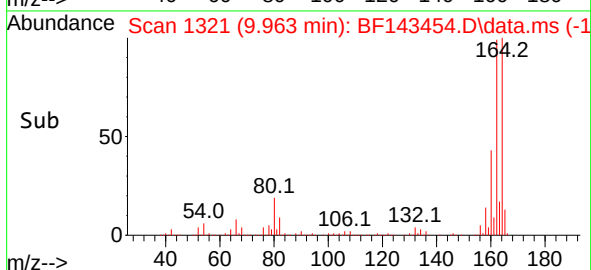
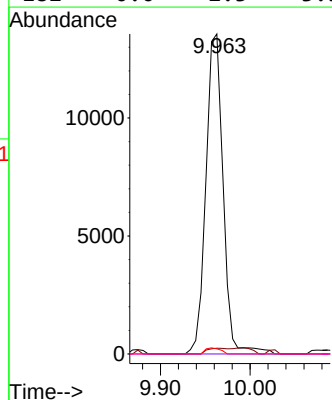
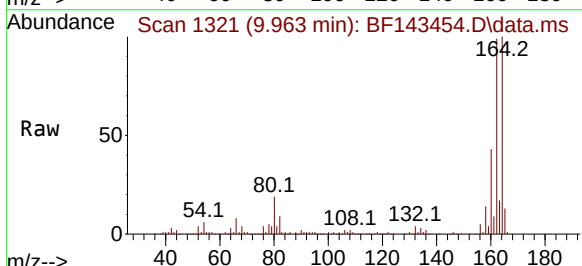
Ion Ratio Lower Upper

165 100

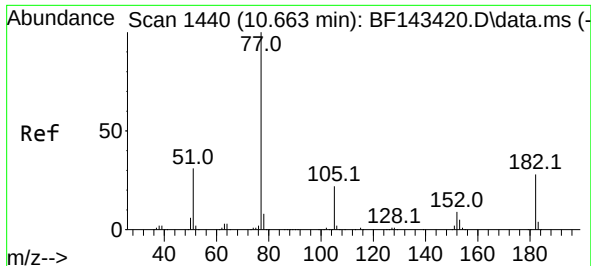
63 1.8 37.0 55.6#

89 1.6 55.4 83.0#

182 0.0 2.3 3.5#



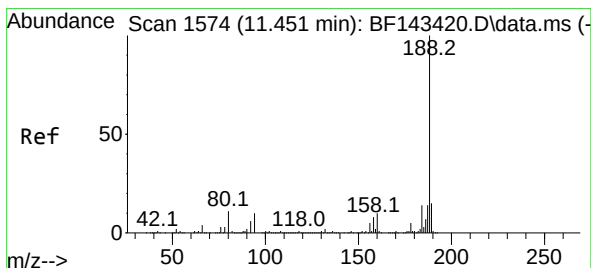
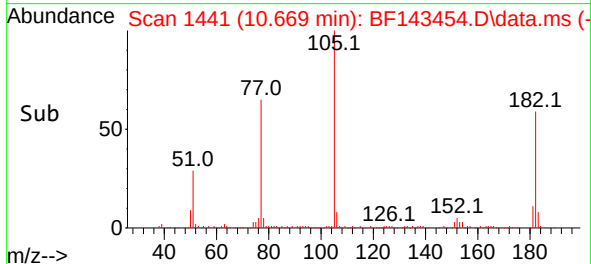
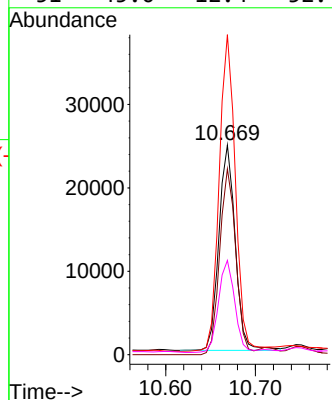
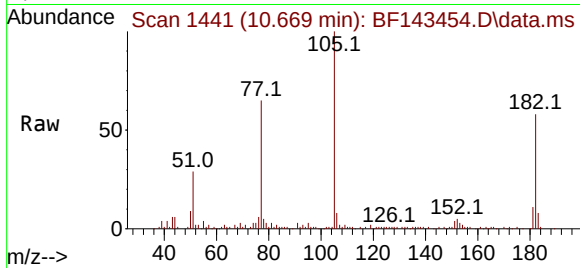




#63  
Azobenzene  
Concen: 3.916 ng  
RT: 10.669 min Scan# 1440  
Delta R.T. 0.006 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

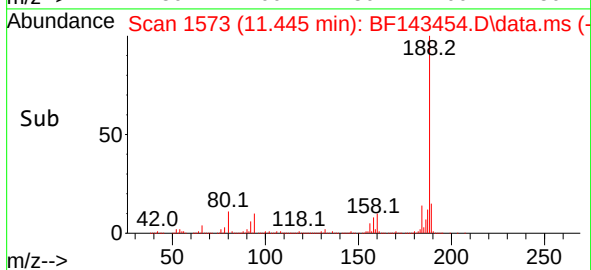
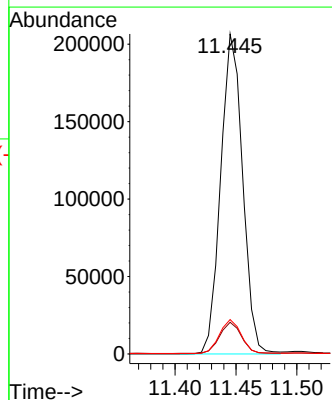
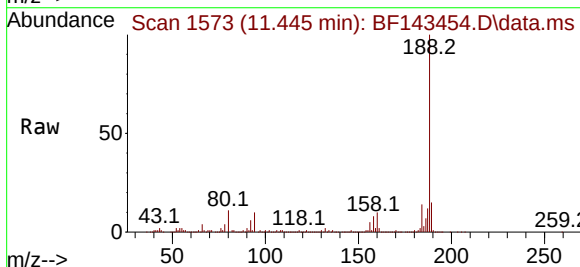
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP06-081425

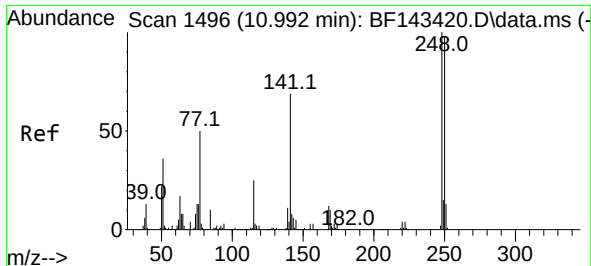
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 31264 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 182      | 88.7  | 7.4   | 47.4# |
| 105      | 152.7 | 1.7   | 41.7# |
| 51       | 45.0  | 12.4  | 52.4  |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.445 min Scan# 1573  
Delta R.T. -0.006 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 259400 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.9   | 8.0   | 12.0   |
| 80       | 10.8  | 8.6   | 12.8   |

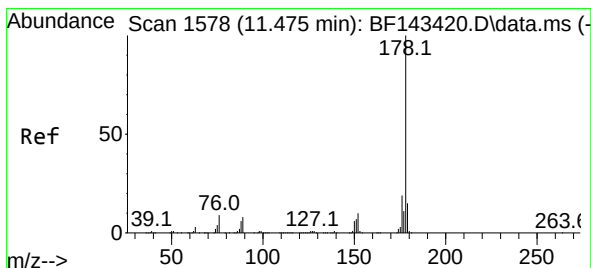
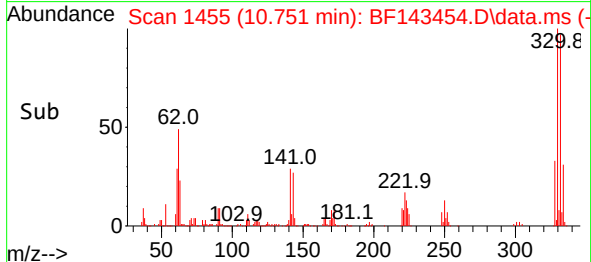
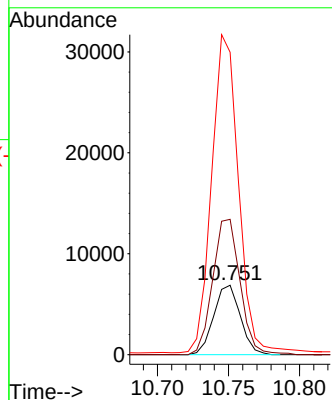
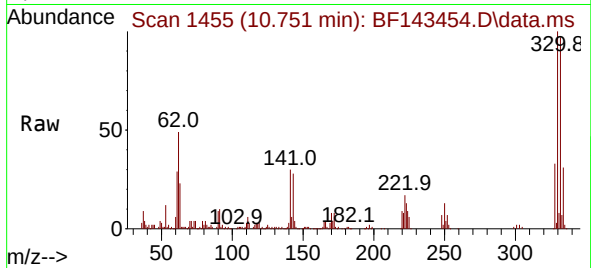




#67  
4-Bromophenyl-phenylether  
Concen: 2.923 ng  
RT: 10.751 min Scan# 1496  
Delta R.T. -0.241 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

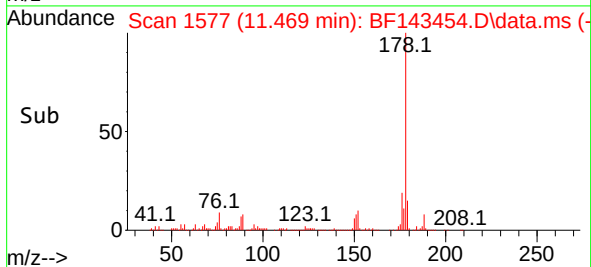
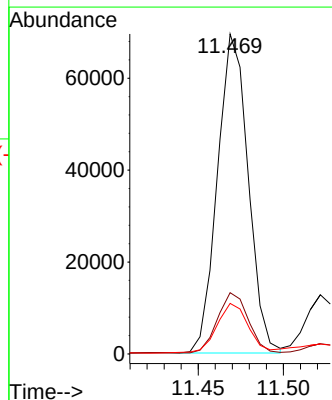
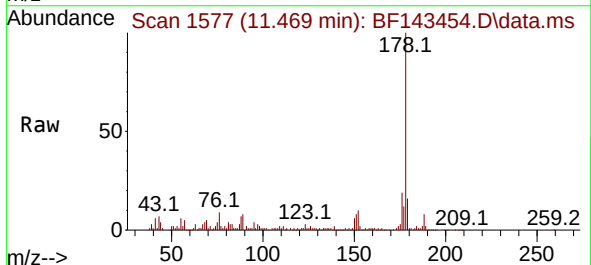
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP06-081425

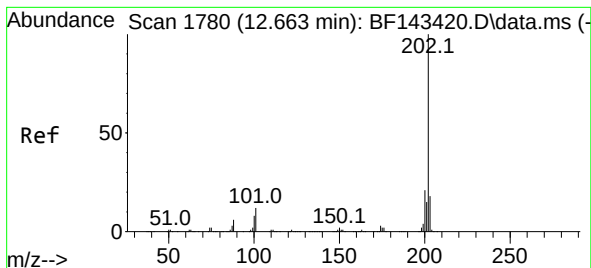
Tgt Ion:248 Resp: 8954  
Ion Ratio Lower Upper  
248 100  
250 195.2 78.6 118.0#  
141 435.9 54.9 82.3#



#71  
Phenanthrene  
Concen: 6.197 ng  
RT: 11.469 min Scan# 1577  
Delta R.T. -0.006 min  
Lab File: BF143454.D  
Acq: 19 Aug 2025 13:59

Tgt Ion:178 Resp: 87046  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.8 12.3 18.5





#75

Fluoranthene

Concen: 19.046 ng

RT: 12.663 min Scan# 1780

Delta R.T. -0.000 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

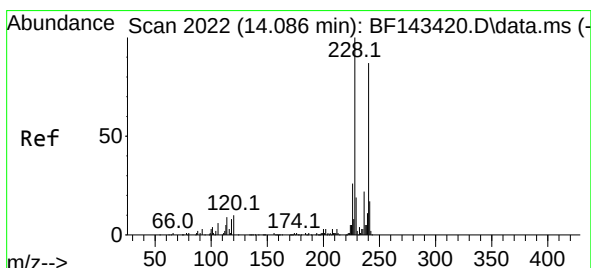
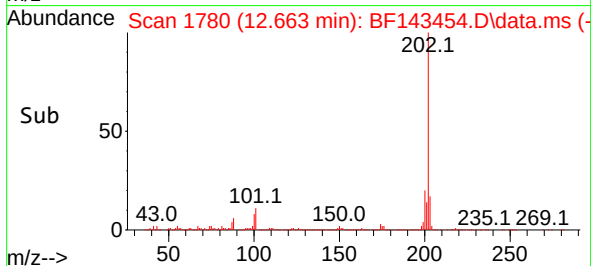
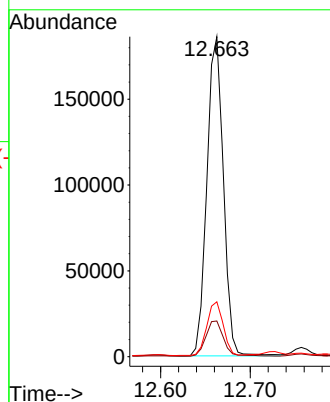
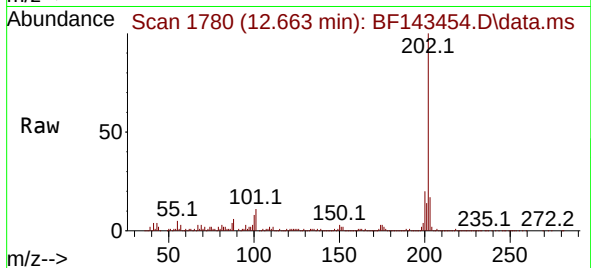
Tgt Ion:202 Resp: 237722

Ion Ratio Lower Upper

202 100

101 11.1 0.0 31.5

203 17.2 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.086 min Scan# 2022

Delta R.T. -0.000 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

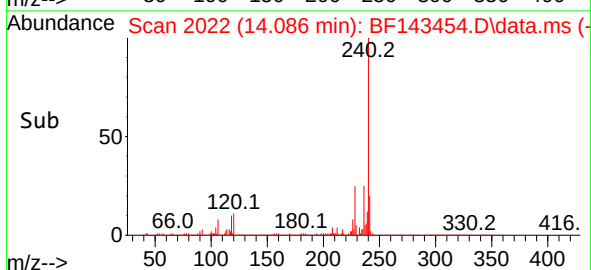
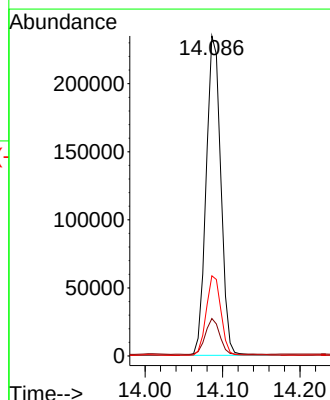
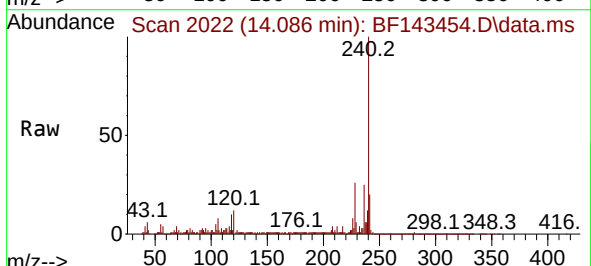
Tgt Ion:240 Resp: 307100

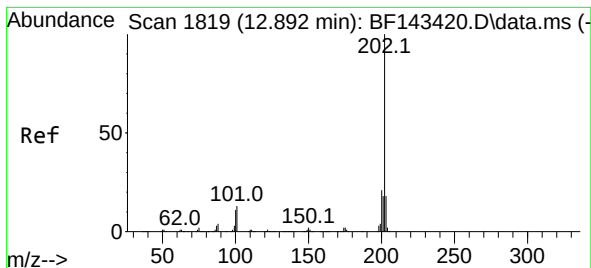
Ion Ratio Lower Upper

240 100

120 11.7 9.0 13.4

236 25.1 20.2 30.2





#78

Pyrene

Concen: 7.735 ng

RT: 12.892 min Scan# 1819

Delta R.T. -0.000 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

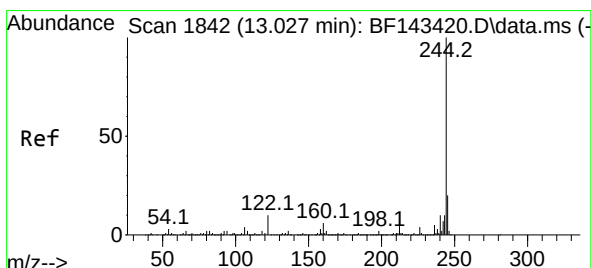
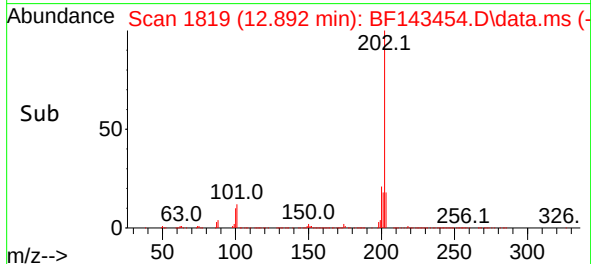
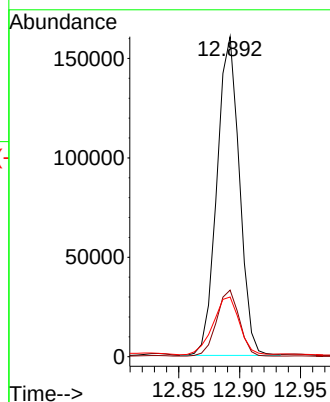
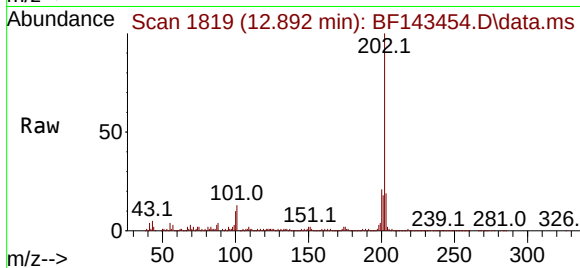
Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 206472 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.8  | 17.1  | 25.7   |
| 203       | 18.7  | 14.2  | 21.2   |



#79

Terphenyl-d14

Concen: 43.646 ng

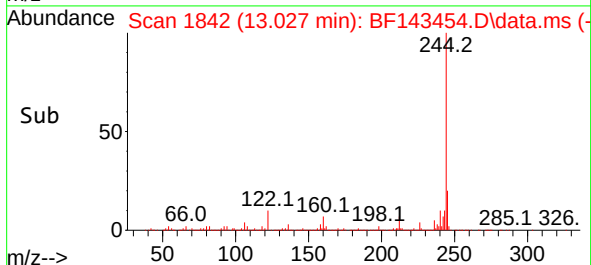
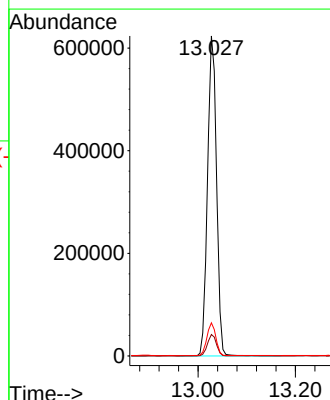
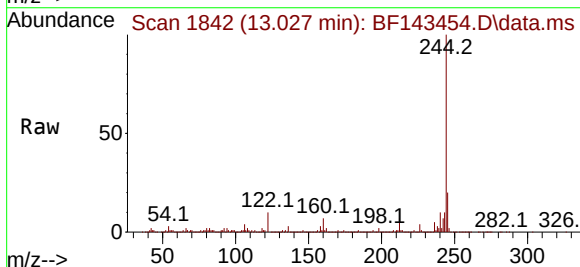
RT: 13.027 min Scan# 1842

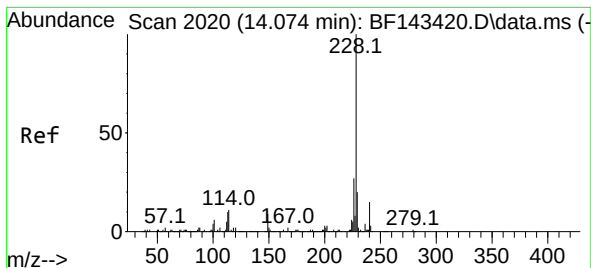
Delta R.T. -0.000 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 797904 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.7   | 5.2   | 7.8    |
| 122       | 10.4  | 8.3   | 12.5   |





#81

Benzo(a)anthracene

Concen: 6.630 ng

RT: 14.080 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

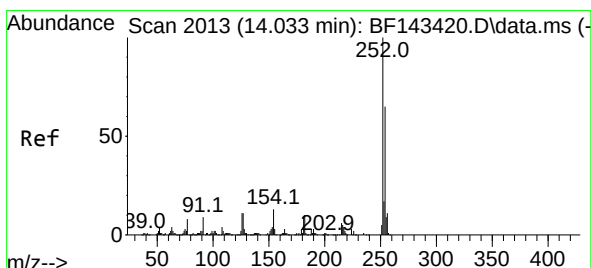
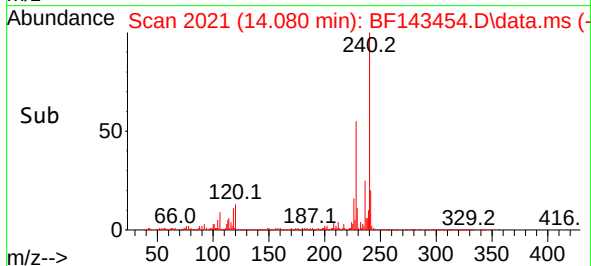
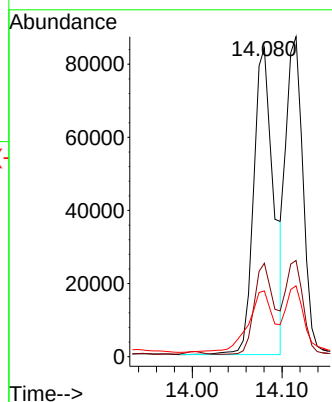
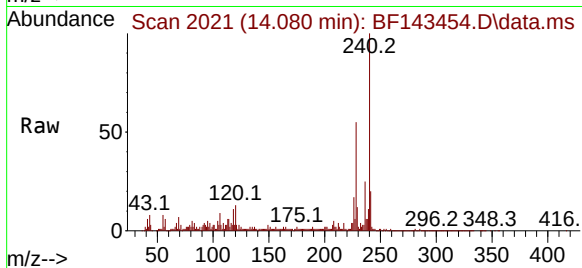
Tgt Ion:228 Resp: 129626

Ion Ratio Lower Upper

228 100

226 30.2 21.5 32.3

229 21.3 15.7 23.5



#82

3,3'-Dichlorobenzidine

Concen: 10.822 ng

RT: 14.004 min Scan# 2008

Delta R.T. -0.030 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

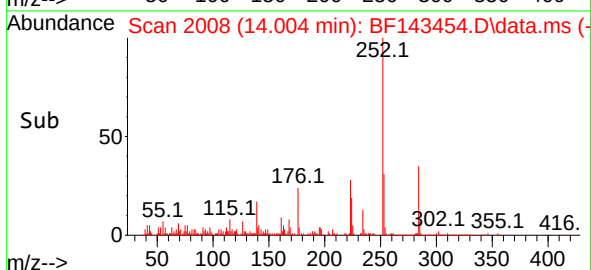
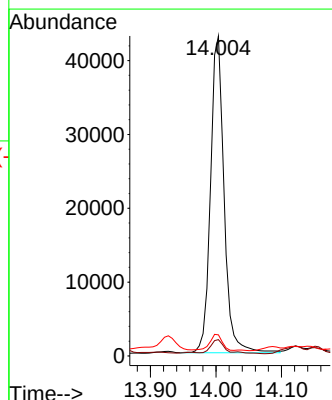
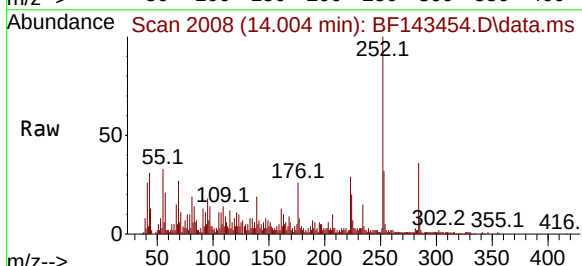
Tgt Ion:252 Resp: 61952

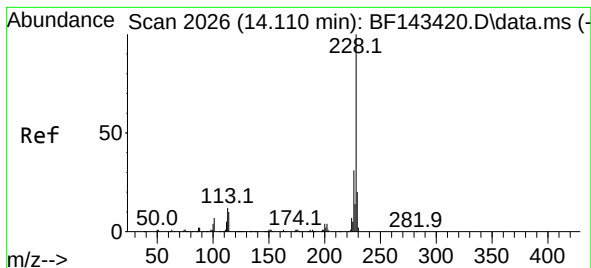
Ion Ratio Lower Upper

252 100

254 5.1 51.6 77.4#

126 6.6 8.8 13.2#





#83

Chrysene

Concen: 6.322 ng

RT: 14.116 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

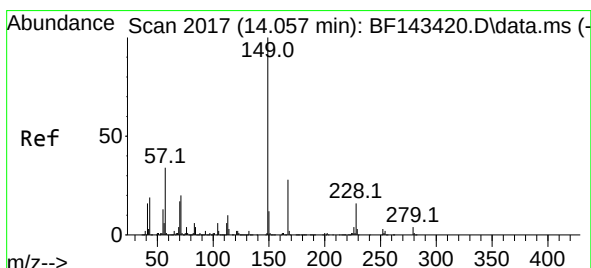
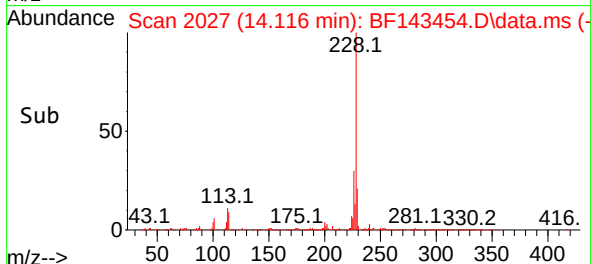
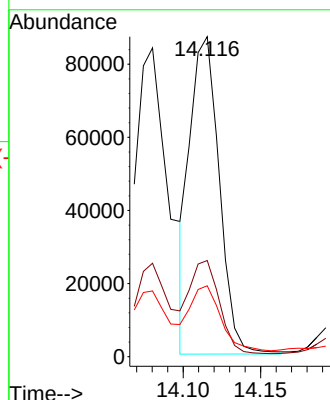
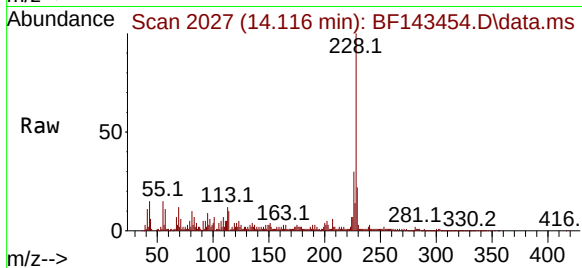
Tgt Ion:228 Resp: 114265

Ion Ratio Lower Upper

228 100

226 30.1 24.3 36.5

229 22.2 16.1 24.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.332 ng

RT: 14.057 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

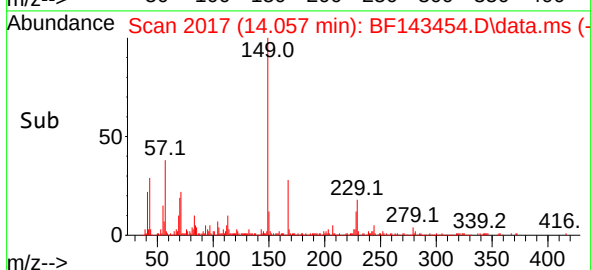
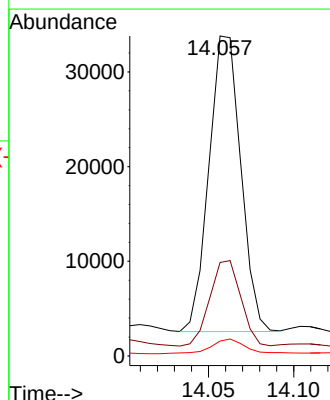
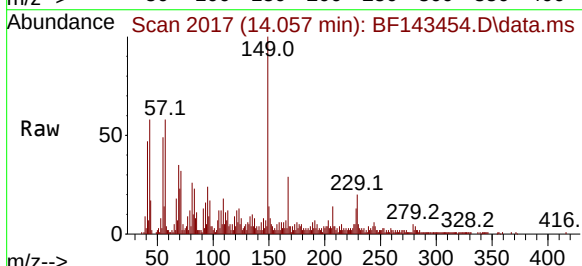
Tgt Ion:149 Resp: 40670

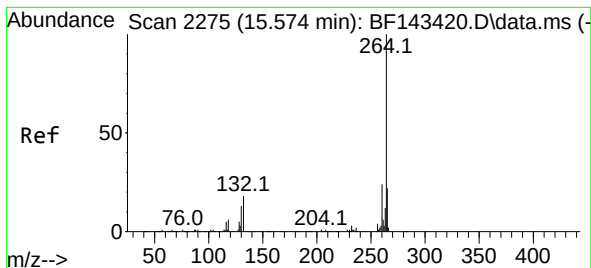
Ion Ratio Lower Upper

149 100

167 29.2 22.6 33.8

279 4.6 3.5 5.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.580 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

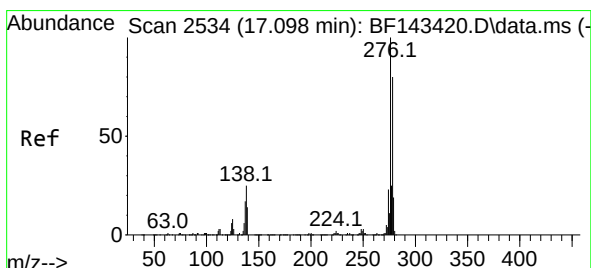
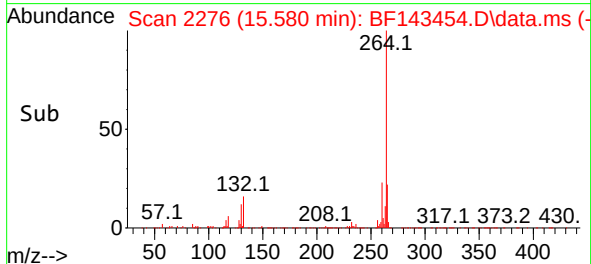
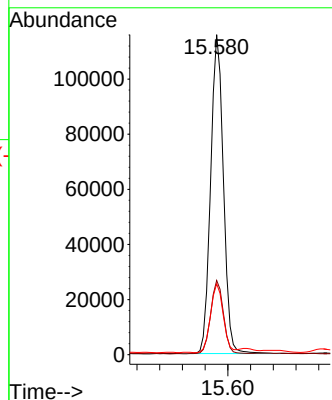
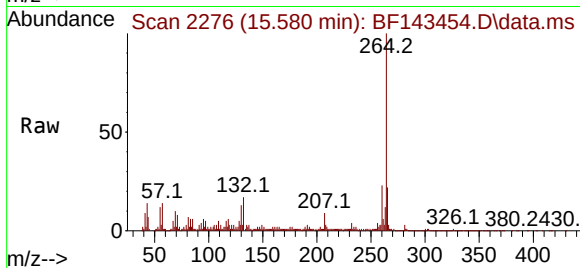
Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 179616 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.2  | 18.8  | 28.2   |
| 265       | 22.1  | 17.4  | 26.0   |



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.849 ng

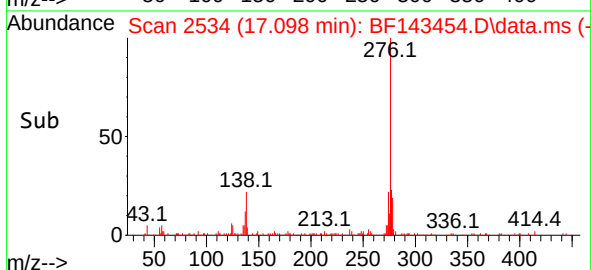
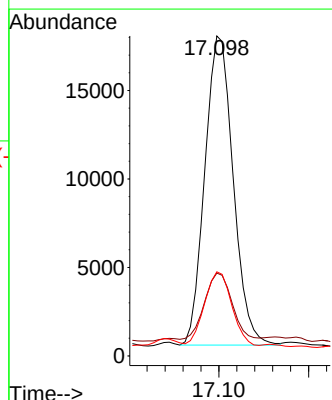
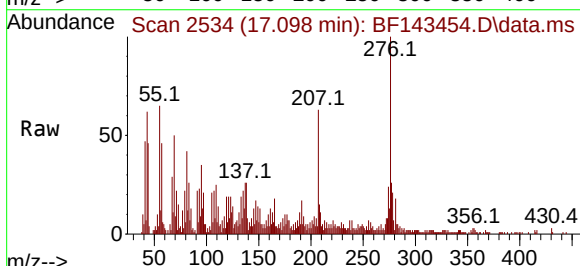
RT: 17.098 min Scan# 2534

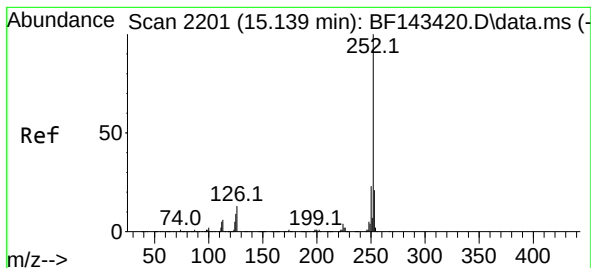
Delta R.T. -0.000 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 38371 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 20.6  | 20.2  | 30.4  |
| 277       | 22.8  | 20.2  | 30.2  |





#88

Benzo(b)fluoranthene

Concen: 14.854 ng

RT: 15.145 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

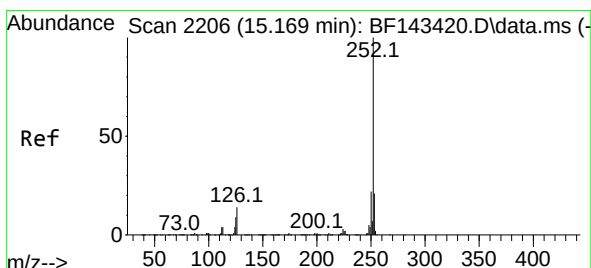
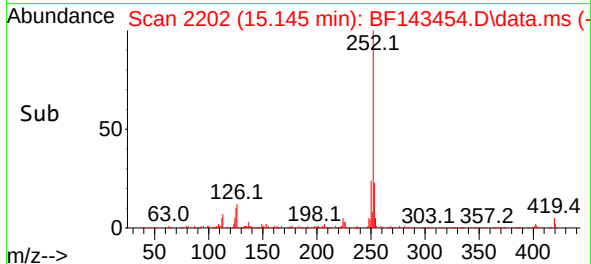
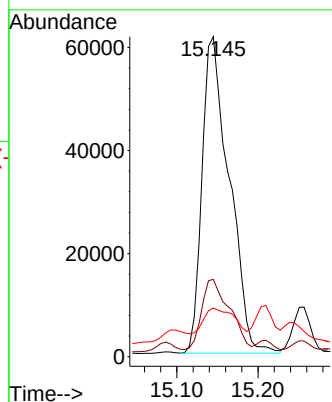
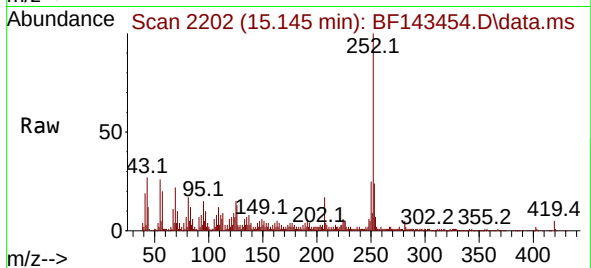
Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

Tgt Ion:252 Resp: 142997  
Ion Ratio Lower Upper  
252 100  
253 24.1 17.1 25.7  
125 15.2 7.5 11.3#



#89

Benzo(k)fluoranthene

Concen: 15.060 ng

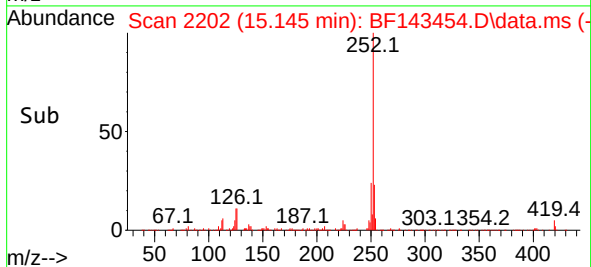
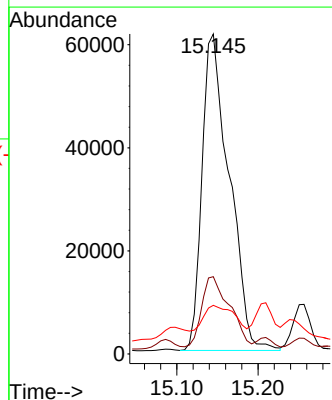
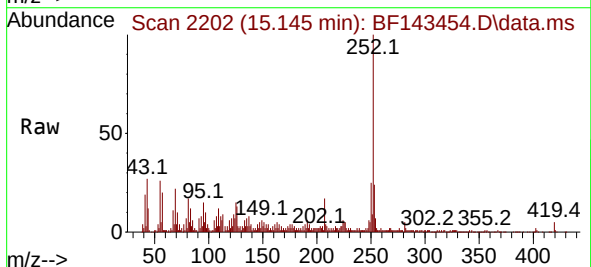
RT: 15.145 min Scan# 2202

Delta R.T. -0.024 min

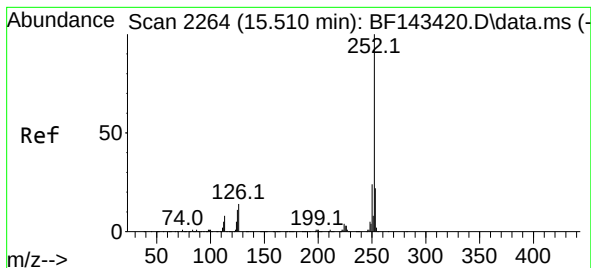
Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Tgt Ion:252 Resp: 142997  
Ion Ratio Lower Upper  
252 100  
253 24.1 17.2 25.8  
125 15.2 7.4 11.2#







#90

Benzo(a)pyrene

Concen: 6.507 ng

RT: 15.515 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP06-081425

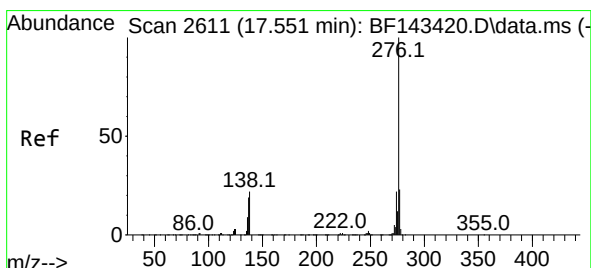
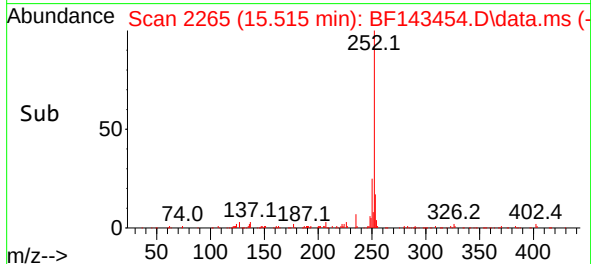
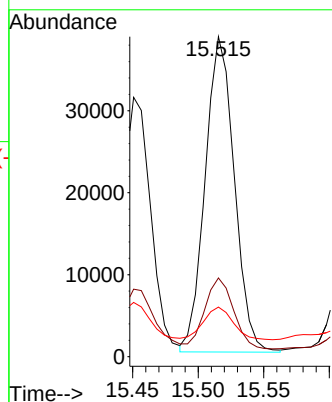
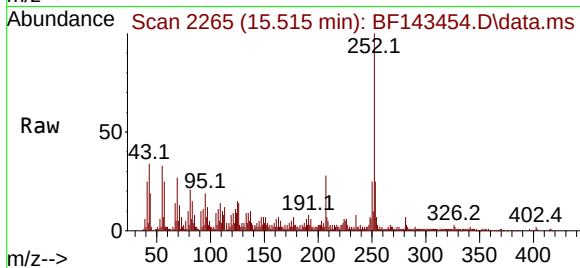
Tgt Ion:252 Resp: 59661

Ion Ratio Lower Upper

252 100

253 24.6 17.4 26.2

125 15.5 8.6 12.8#



#92

Benzo(g,h,i)perylene

Concen: 3.584 ng

RT: 17.562 min Scan# 2613

Delta R.T. 0.012 min

Lab File: BF143454.D

Acq: 19 Aug 2025 13:59

Tgt Ion:276 Resp: 38729

Ion Ratio Lower Upper

276 100

277 26.1 18.7 28.1

138 24.9 17.5 26.3

