

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF070725\  
 Data File : BF143016.D  
 Acq On : 07 Jul 2025 18:51  
 Operator : RC/JU  
 Sample : Q2513-03  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-3-070325

Quant Time: Jul 08 00:58:02 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 24 05:28:21 2025  
 Response via : Initial Calibration

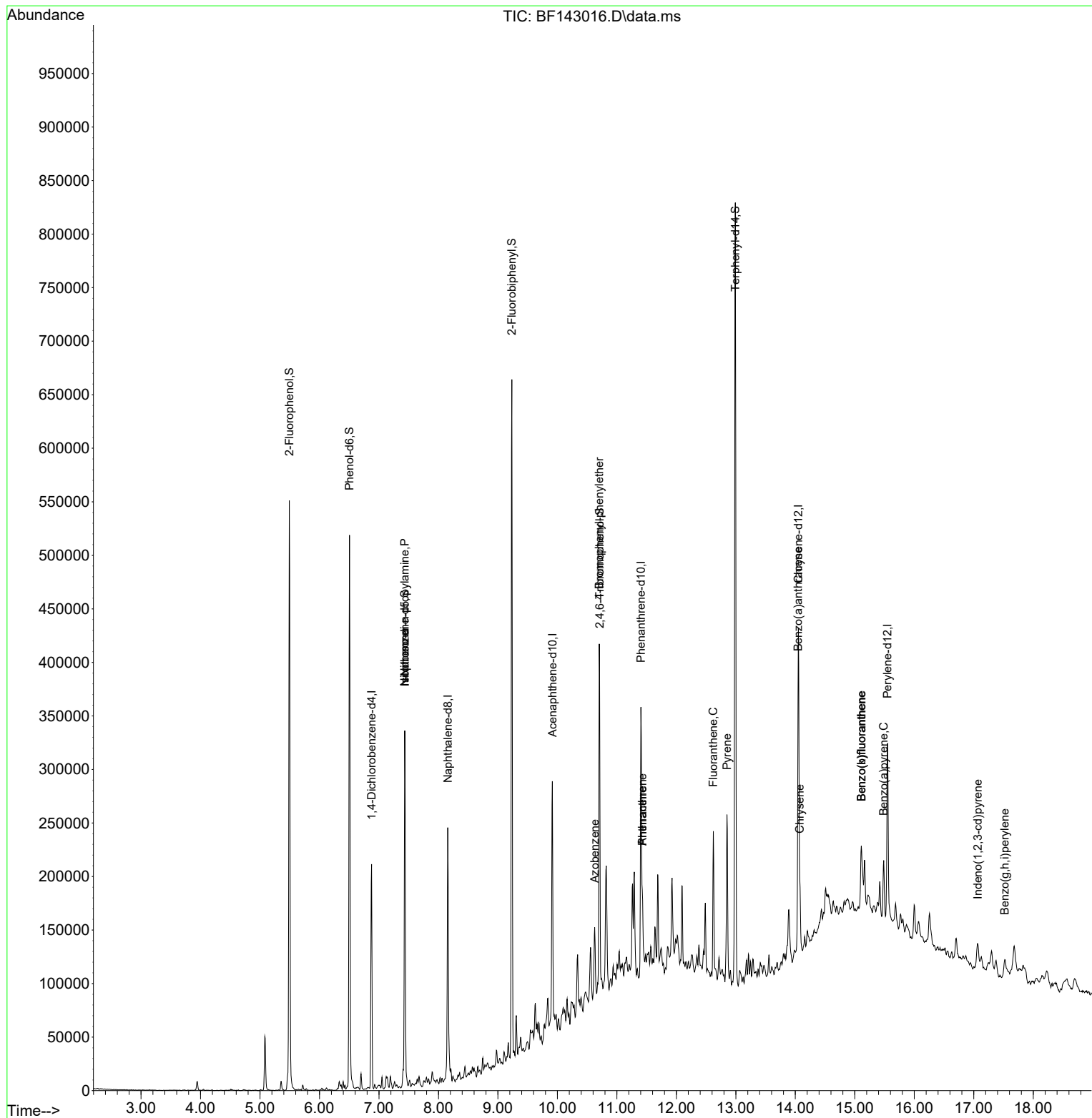
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 46272    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 149865   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.916  | 164  | 68487    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.404 | 188  | 124751   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 129401   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.551 | 264  | 89939    | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.493  | 112  | 214352   | 77.127 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 235966   | 71.964 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 140102   | 51.278 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 58396    | 82.857 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.234  | 172  | 279650   | 53.641 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.992 | 244  | 356539   | 38.070 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.434  | 70   | 19968    | 10.471 | ng    | # 74     |
| 25) Isophorone                | 7.434  | 82   | 140101   | 31.965 | ng    | # 62     |
| 63) Azobenzene                | 10.628 | 77   | 16370    | 4.214  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.704 | 248  | 3896     | 2.744  | ng    | # 1      |
| 71) Phenanthrene              | 11.428 | 178  | 34097    | 5.046  | ng    | 98       |
| 72) Anthracene                | 11.428 | 178  | 34097    | 4.920  | ng    | 99       |
| 75) Fluoranthene              | 12.622 | 202  | 74221    | 11.573 | ng    | 98       |
| 78) Pyrene                    | 12.851 | 202  | 74223    | 6.119  | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 43307    | 4.961  | ng    | # 91     |
| 83) Chrysene                  | 14.075 | 228  | 31285    | 4.016  | ng    | # 94     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.068 | 276  | 14995    | 2.189  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.110 | 252  | 50188    | 9.644  | ng    | # 89     |
| 89) Benzo(k)fluoranthene      | 15.110 | 252  | 50188    | 10.308 | ng    | # 89     |
| 90) Benzo(a)pyrene            | 15.486 | 252  | 27150    | 5.400  | ng    | # 91     |
| 92) Benzo(g,h,i)perylene      | 17.521 | 276  | 14394    | 2.593  | ng    | # 93     |
| -----                         |        |      |          |        |       |          |

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

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Sample : Q2513-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-3-070325

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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 24 05:28:21 2025  
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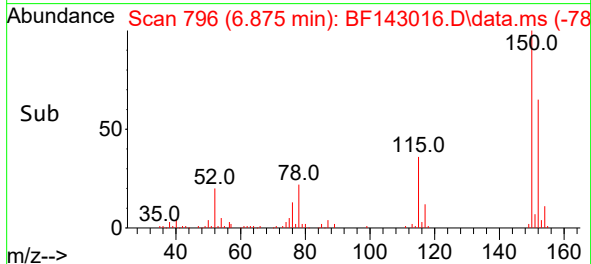
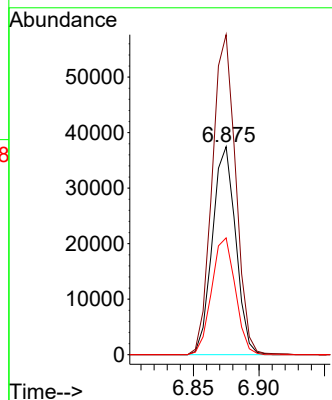
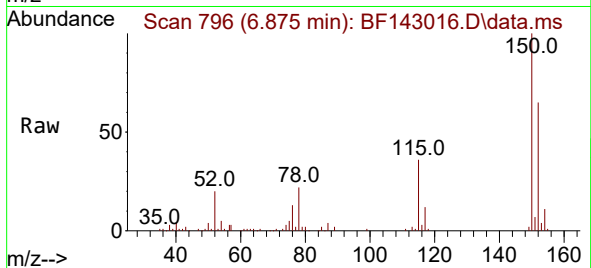




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 797  
Delta R.T. -0.006 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

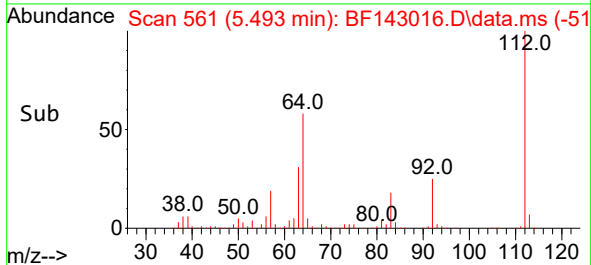
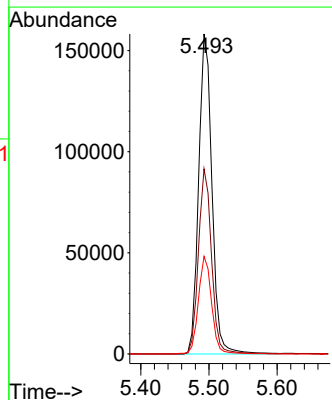
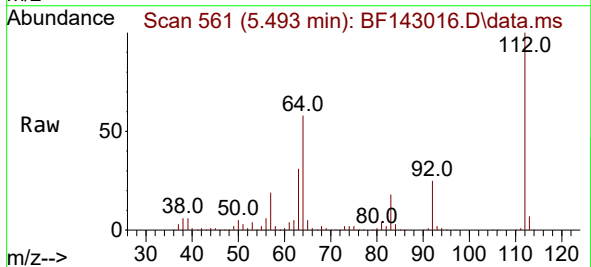
Instrument :  
BNA\_F  
ClientSampleId :  
HR-3-070325

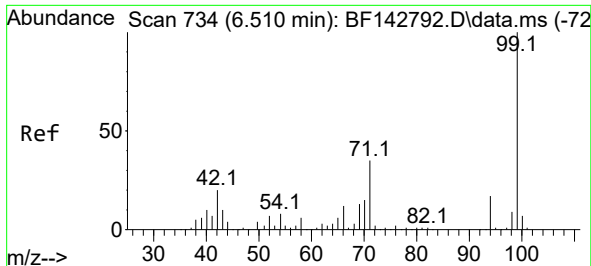
Tgt Ion:152 Resp: 46272  
Ion Ratio Lower Upper  
152 100  
150 153.8 127.2 190.8  
115 56.1 46.6 69.8



#5  
2-Fluorophenol  
Concen: 77.127 ng  
RT: 5.493 min Scan# 561  
Delta R.T. 0.001 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

Tgt Ion:112 Resp: 214352  
Ion Ratio Lower Upper  
112 100  
64 57.9 48.2 72.2  
63 30.5 25.7 38.5

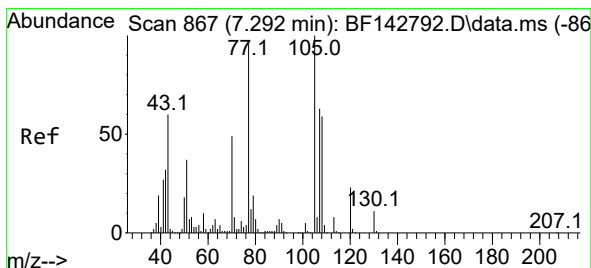
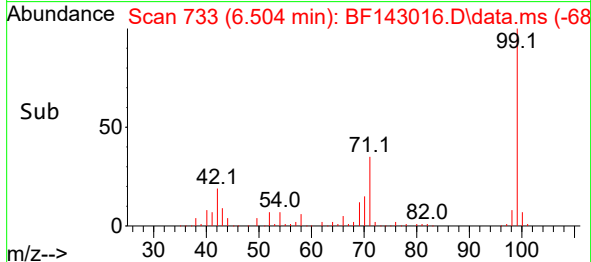
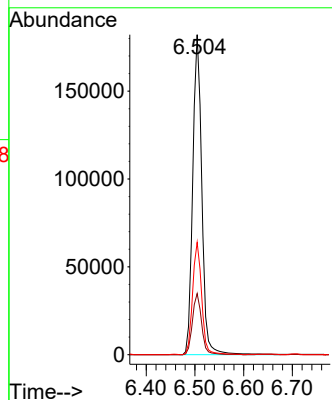
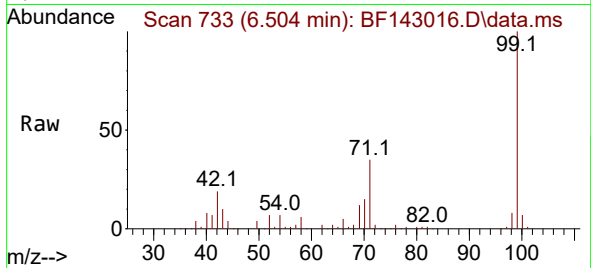




#7  
Phenol-d6  
Concen: 71.964 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

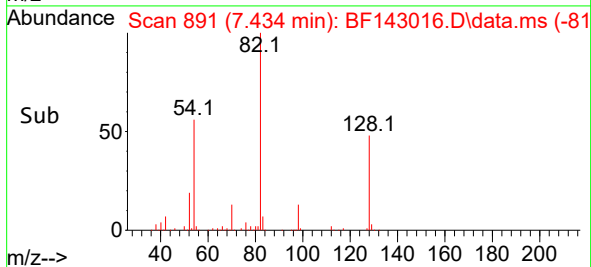
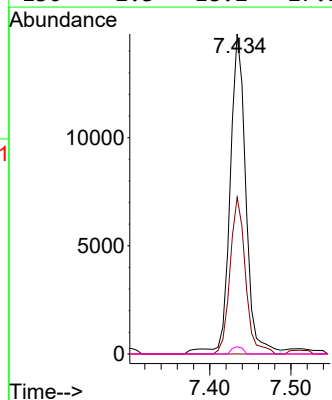
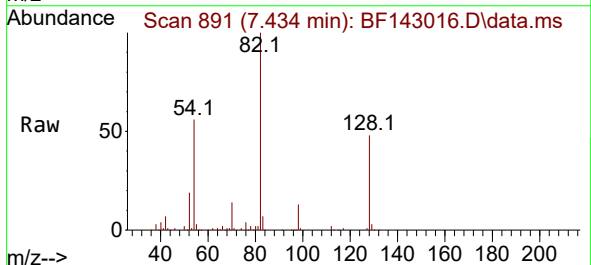
Instrument :  
BNA\_F  
ClientSampleId :  
HR-3-070325

Tgt Ion: 99 Resp: 235966  
Ion Ratio Lower Upper  
99 100  
42 19.1 15.9 23.9  
71 35.1 27.8 41.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.471 ng  
RT: 7.434 min Scan# 891  
Delta R.T. 0.141 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

Tgt Ion: 70 Resp: 19968  
Ion Ratio Lower Upper  
70 100  
42 49.0 52.1 78.1#  
101 0.0 8.2 12.2#  
130 2.3 18.2 27.2#



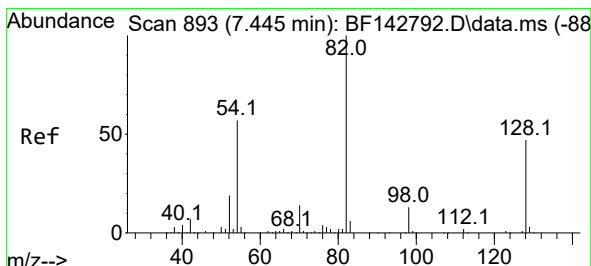
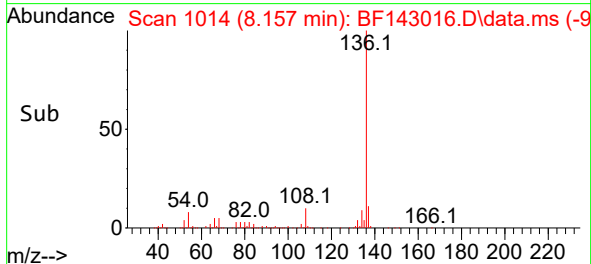
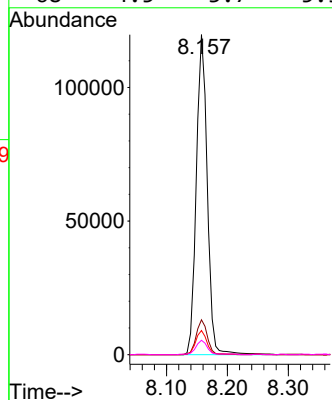
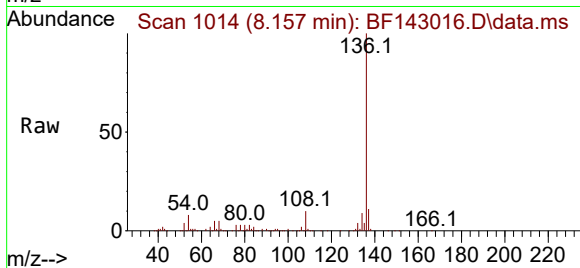


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1014  
Delta R.T. -0.012 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion:136 Resp: 149865

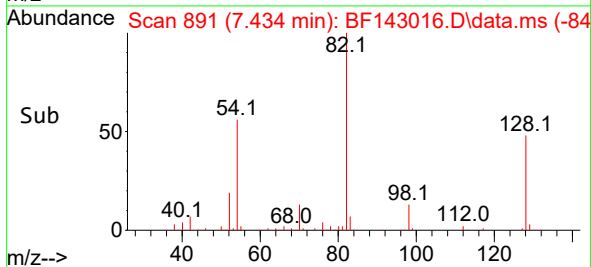
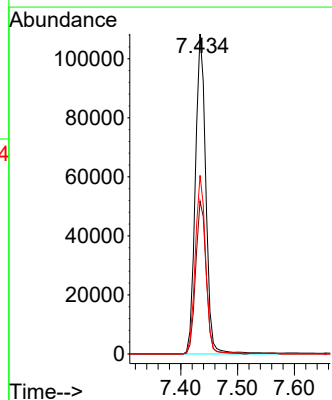
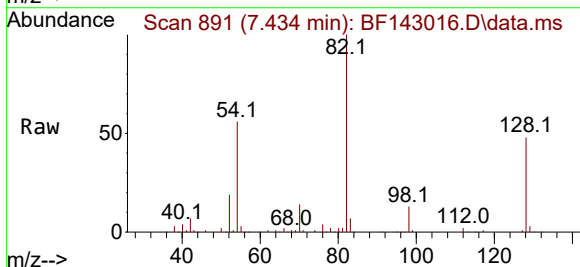
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.4   | 12.6  |
| 54  | 7.6   | 6.3   | 9.5   |
| 68  | 4.5   | 3.7   | 5.5   |

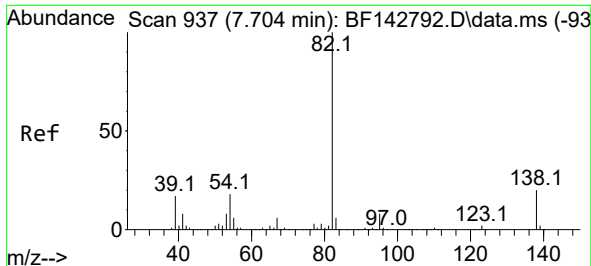


#23  
Nitrobenzene-d5  
Concen: 51.278 ng  
RT: 7.434 min Scan# 891  
Delta R.T. -0.011 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

Tgt Ion: 82 Resp: 140102

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 47.8  | 37.7  | 56.5  |
| 54  | 55.8  | 45.7  | 68.5  |

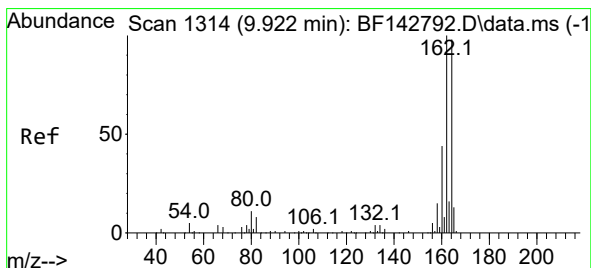
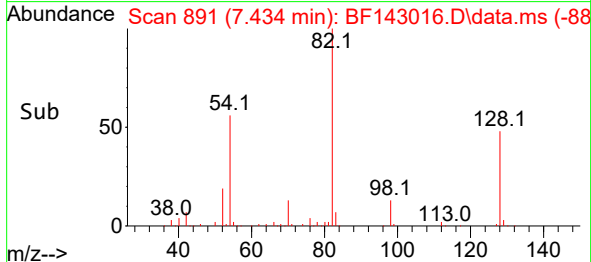
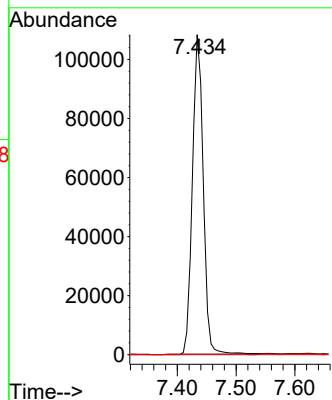
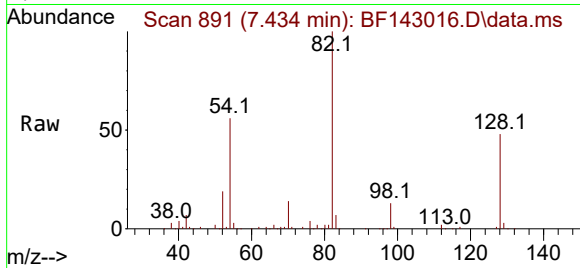




#25  
Isophorone  
Concen: 31.965 ng  
RT: 7.434 min Scan# 891  
Delta R.T. -0.270 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

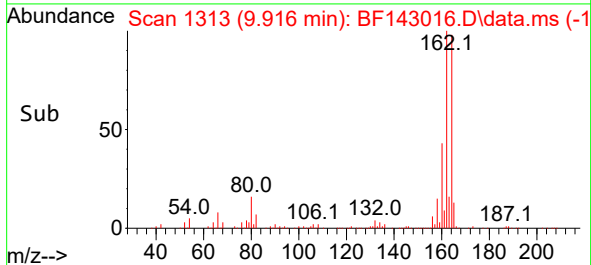
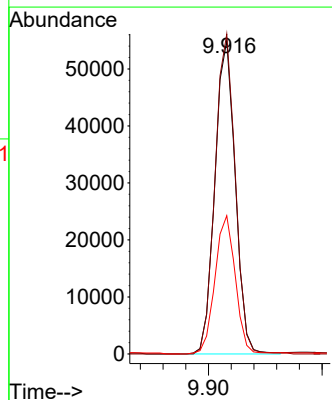
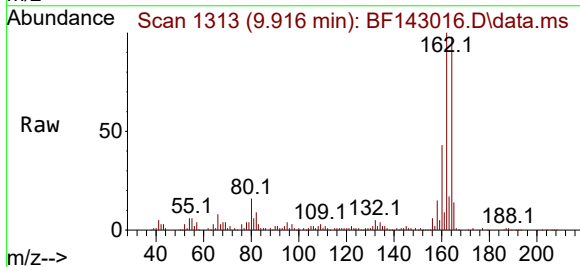
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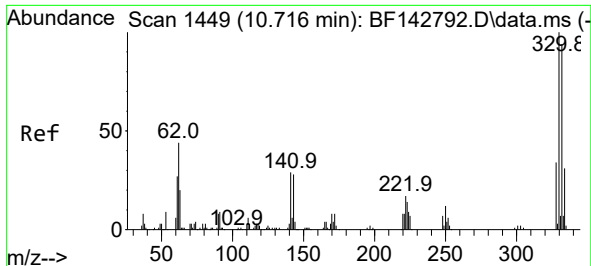
Tgt Ion: 82 Resp: 140101  
Ion Ratio Lower Upper  
82 100  
95 0.2 6.2 9.2#  
138 0.0 16.2 24.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.916 min Scan# 1313  
Delta R.T. -0.006 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

Tgt Ion: 164 Resp: 68487  
Ion Ratio Lower Upper  
164 100  
162 102.2 81.8 122.8  
160 44.1 36.0 54.0

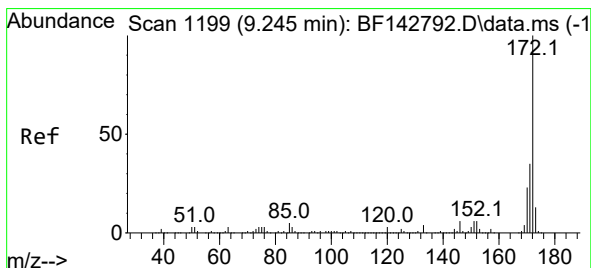
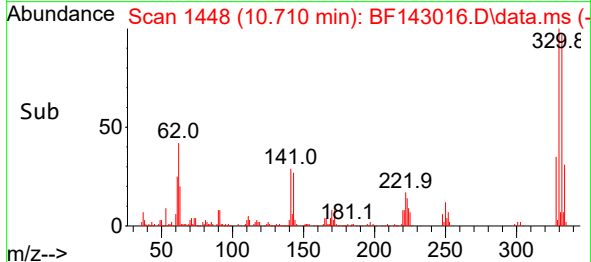
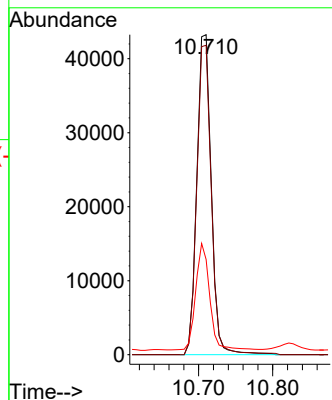
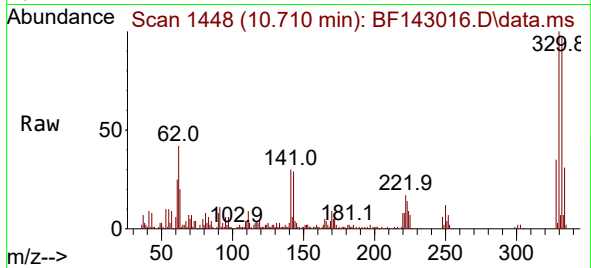




#42  
2,4,6-Tribromophenol  
Concen: 82.857 ng  
RT: 10.710 min Scan# 1449  
Delta R.T. -0.006 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

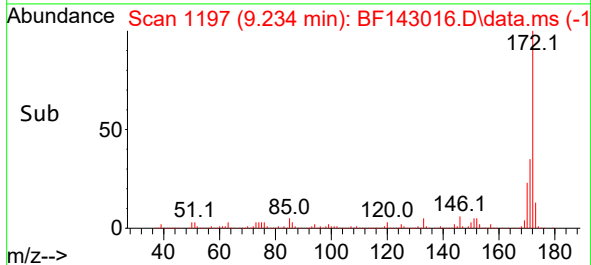
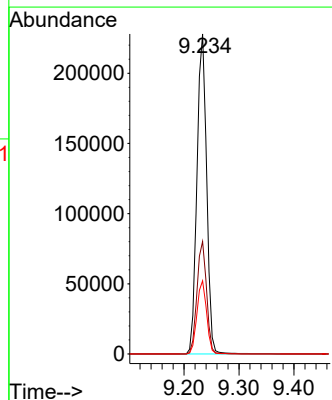
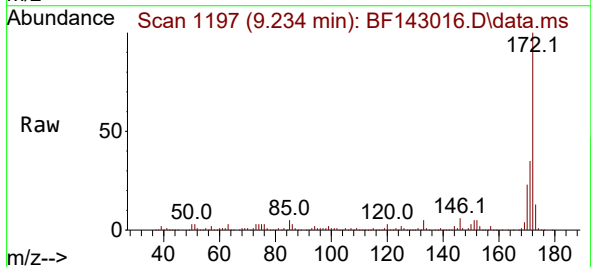
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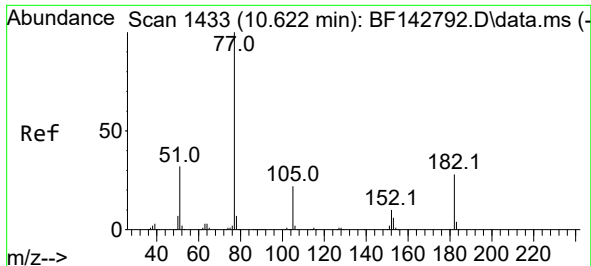
Tgt Ion: 330 Resp: 58396  
Ion Ratio Lower Upper  
330 100  
332 97.2 75.0 112.6  
141 32.0 25.3 37.9



#45  
2-Fluorobiphenyl  
Concen: 53.641 ng  
RT: 9.234 min Scan# 1197  
Delta R.T. -0.011 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

Tgt Ion: 172 Resp: 279650  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.2 42.4  
170 22.8 18.5 27.7

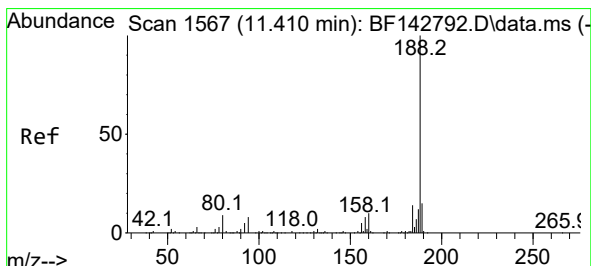
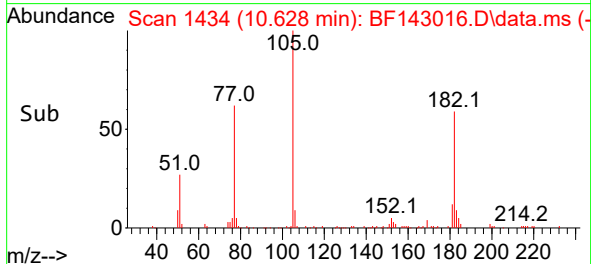
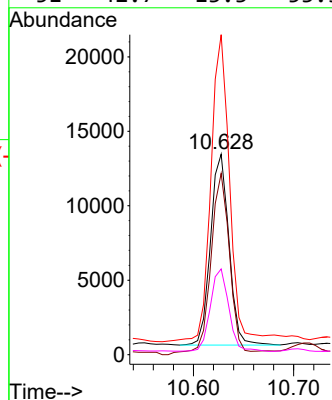
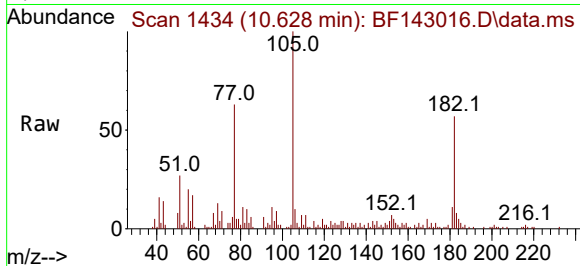




#63  
 Azobenzene  
 Concen: 4.214 ng  
 RT: 10.628 min Scan# 1433  
 Delta R.T. 0.006 min  
 Lab File: BF143016.D  
 Acq: 07 Jul 2025 18:51

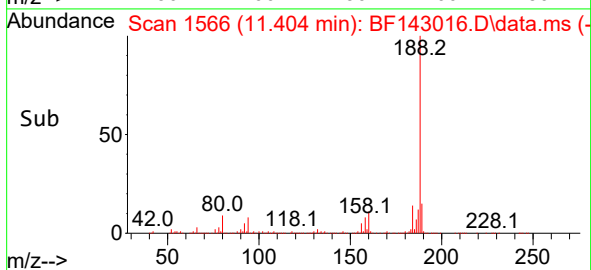
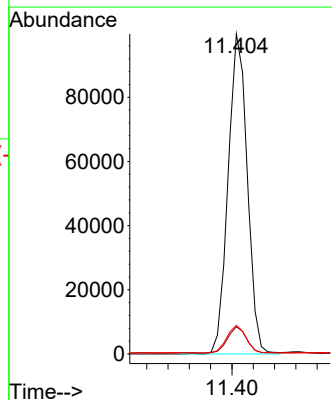
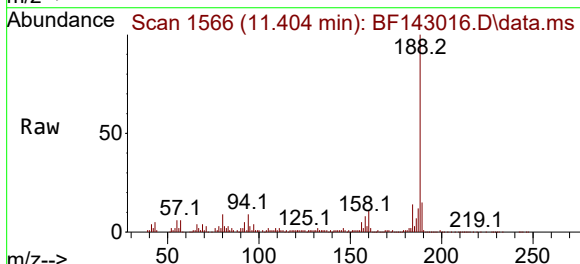
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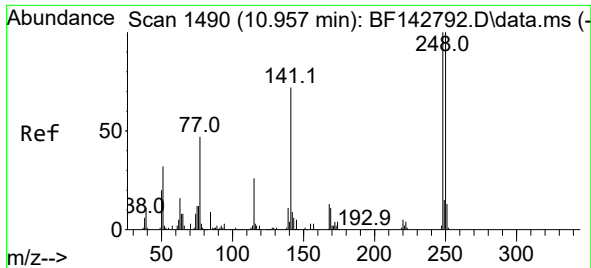
|             |                 |
|-------------|-----------------|
| Tgt Ion: 77 | Resp: 16370     |
| Ion Ratio   | Lower Upper     |
| 77          | 100             |
| 182         | 90.4 7.7 47.7#  |
| 105         | 159.6 1.9 41.9# |
| 51          | 42.7 13.3 53.3  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.404 min Scan# 1566  
 Delta R.T. -0.006 min  
 Lab File: BF143016.D  
 Acq: 07 Jul 2025 18:51

|              |              |
|--------------|--------------|
| Tgt Ion: 188 | Resp: 124751 |
| Ion Ratio    | Lower Upper  |
| 188          | 100          |
| 94           | 8.5 6.7 10.1 |
| 80           | 8.9 6.9 10.3 |

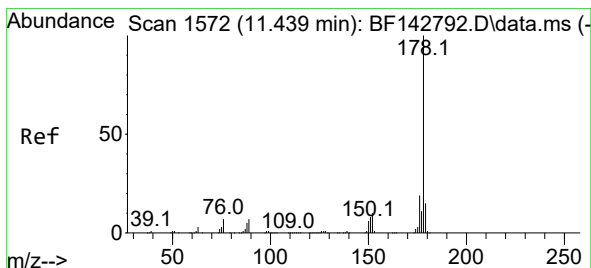
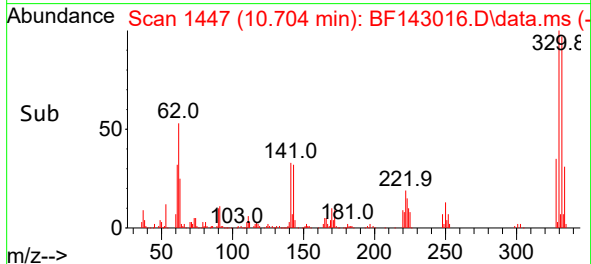
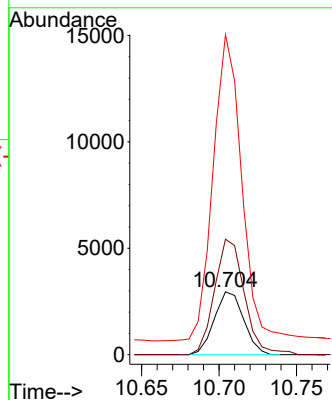
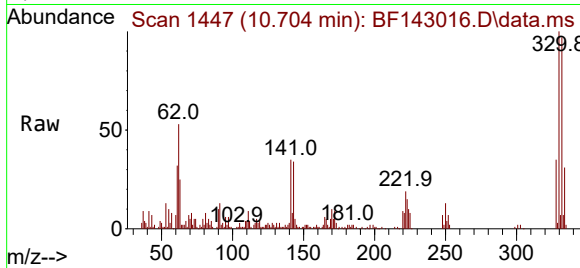




#67  
4-Bromophenyl-phenylether  
Concen: 2.744 ng  
RT: 10.704 min Scan# 14  
Delta R.T. -0.253 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

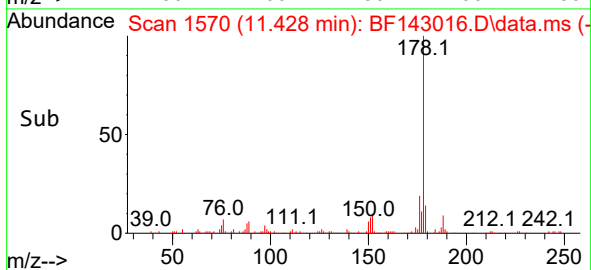
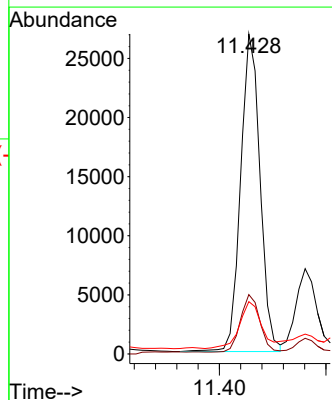
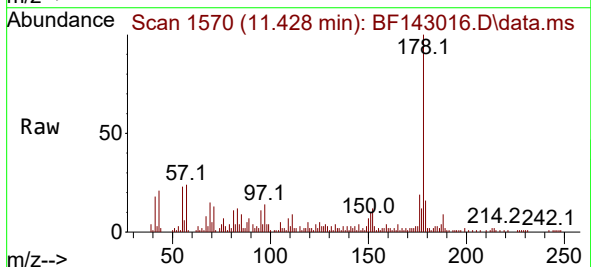
Instrument :  
BNA\_F  
ClientSampleId :  
HR-3-070325

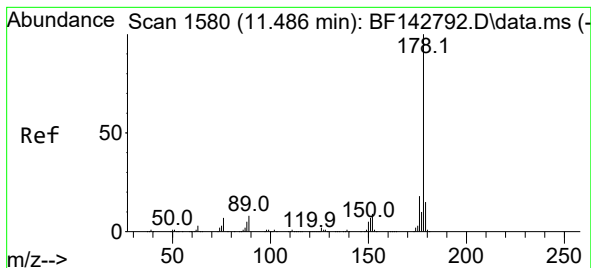
Tgt Ion:248 Resp: 3896  
Ion Ratio Lower Upper  
248 100  
250 183.6 79.8 119.8#  
141 508.9 57.8 86.6#



#71  
Phenanthrene  
Concen: 5.046 ng  
RT: 11.428 min Scan# 1570  
Delta R.T. -0.012 min  
Lab File: BF143016.D  
Acq: 07 Jul 2025 18:51

Tgt Ion:178 Resp: 34097  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.1 22.7  
179 16.3 12.0 18.0





#72

Anthracene

Concen: 4.920 ng

RT: 11.428 min Scan# 1

Delta R.T. -0.059 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

Instrument :

BNA\_F

ClientSampleId :

HR-3-070325

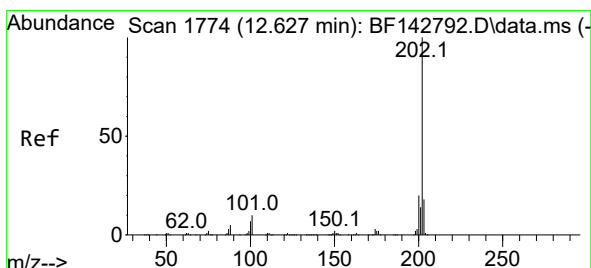
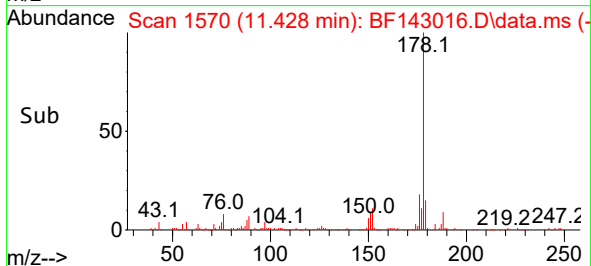
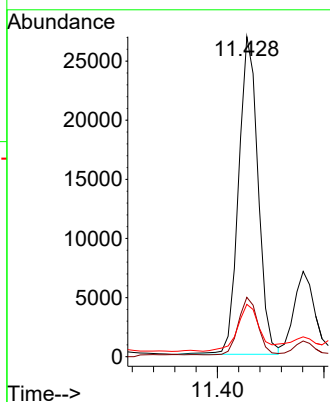
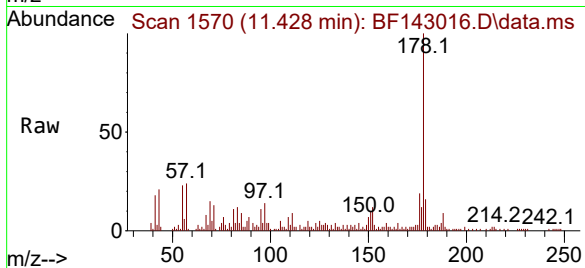
Tgt Ion:178 Resp: 34097

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

179 16.3 12.4 18.6



#75

Fluoranthene

Concen: 11.573 ng

RT: 12.622 min Scan# 1773

Delta R.T. -0.006 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

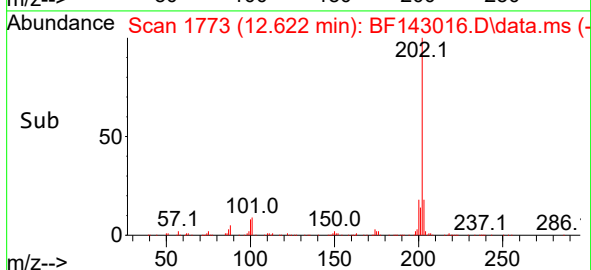
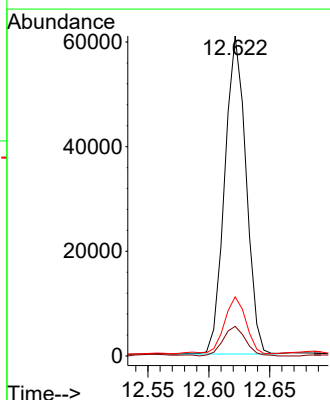
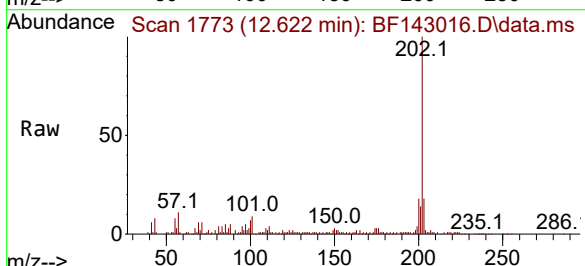
Tgt Ion:202 Resp: 74221

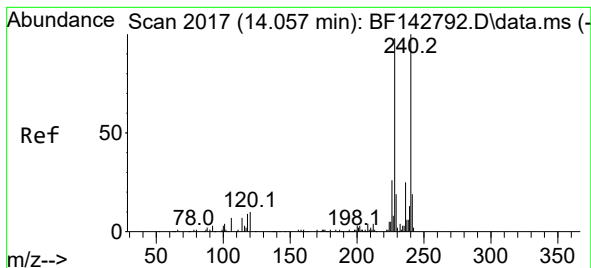
Ion Ratio Lower Upper

202 100

101 9.2 0.0 29.7

203 18.4 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

Instrument :

BNA\_F

ClientSampleId :

HR-3-070325

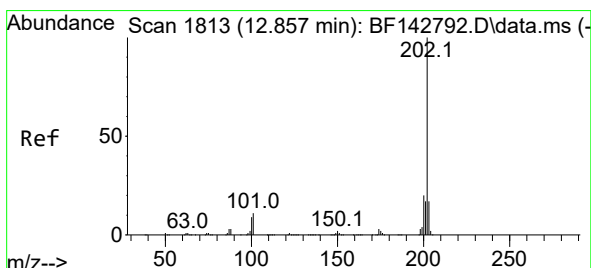
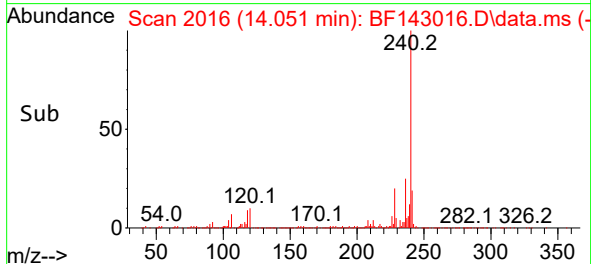
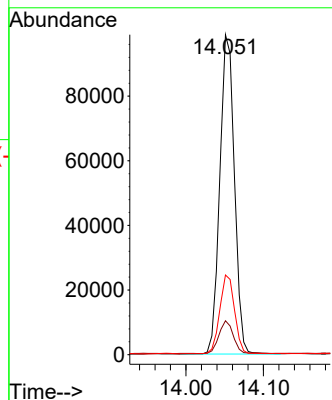
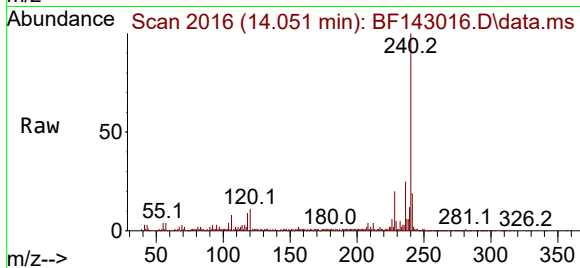
Tgt Ion:240 Resp: 129401

Ion Ratio Lower Upper

240 100

120 10.6 8.2 12.2

236 24.9 19.8 29.8



#78

Pyrene

Concen: 6.119 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

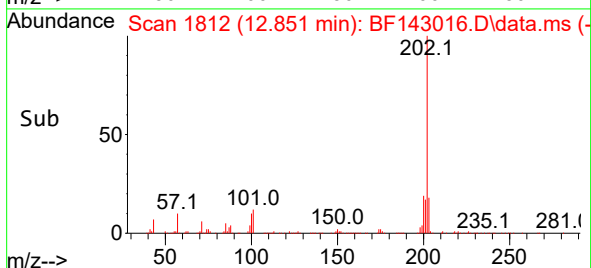
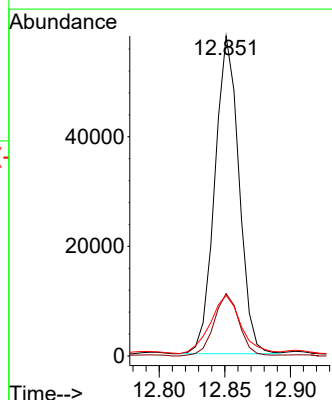
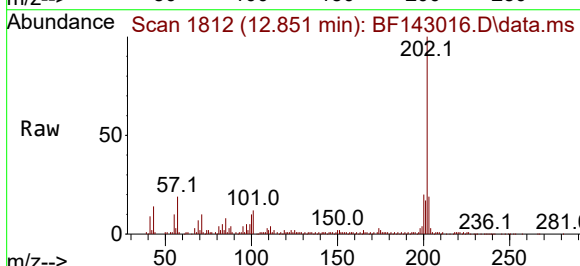
Tgt Ion:202 Resp: 74223

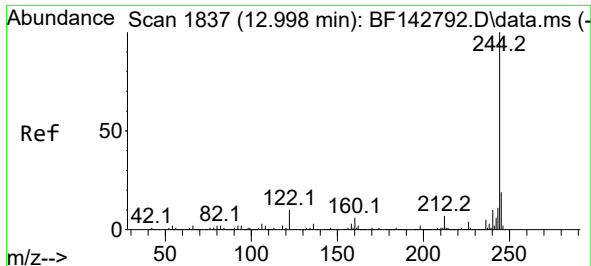
Ion Ratio Lower Upper

202 100

200 19.5 15.7 23.5

203 18.9 13.8 20.6

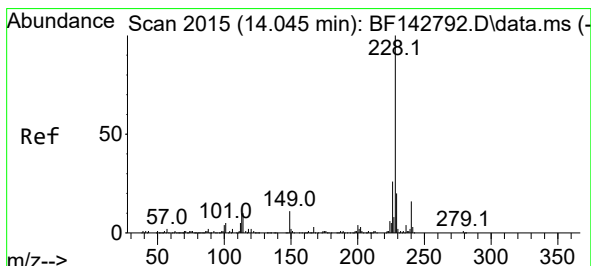
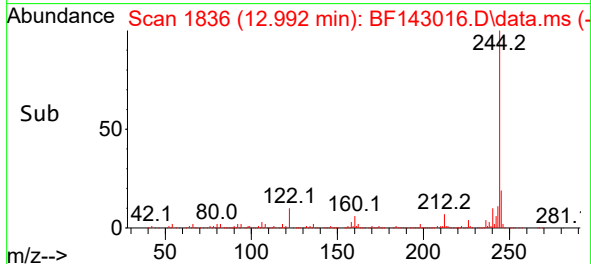
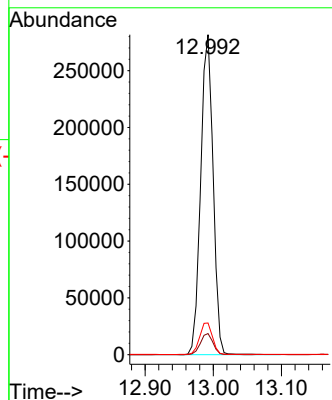
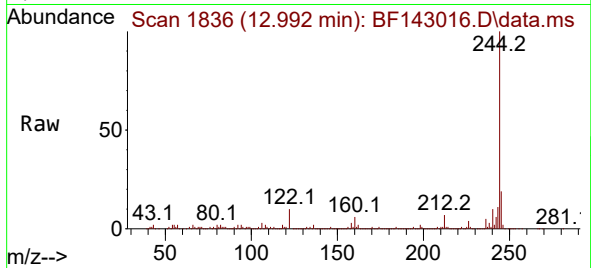




#79  
 Terphenyl-d14  
 Concen: 38.070 ng  
 RT: 12.992 min Scan# 1836  
 Delta R.T. -0.006 min  
 Lab File: BF143016.D  
 Acq: 07 Jul 2025 18:51

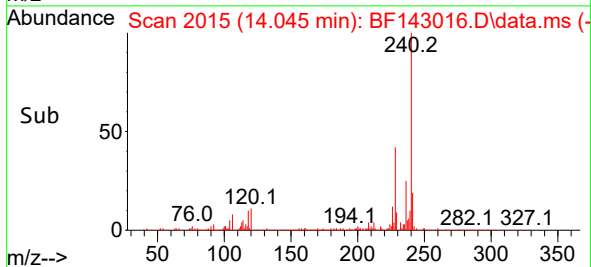
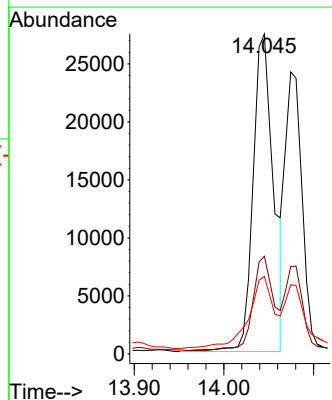
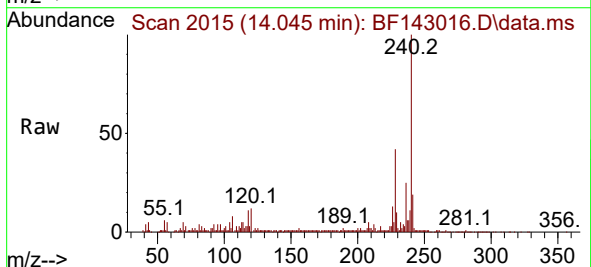
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-3-070325

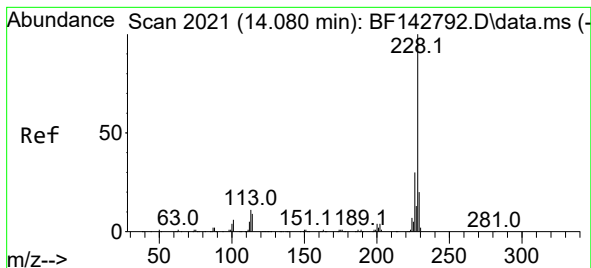
Tgt Ion:244 Resp: 356539  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.4 8.0  
 122 9.9 8.2 12.2



#81  
 Benzo(a)anthracene  
 Concen: 4.961 ng  
 RT: 14.045 min Scan# 2015  
 Delta R.T. 0.000 min  
 Lab File: BF143016.D  
 Acq: 07 Jul 2025 18:51

Tgt Ion:228 Resp: 43307  
 Ion Ratio Lower Upper  
 228 100  
 226 30.5 21.2 31.8  
 229 24.2 15.6 23.4#





#83

Chrysene

Concen: 4.016 ng

RT: 14.075 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

Instrument :

BNA\_F

ClientSampleId :

HR-3-070325

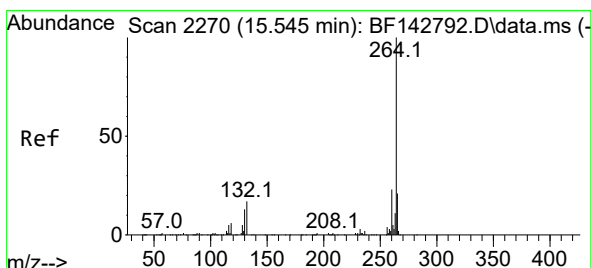
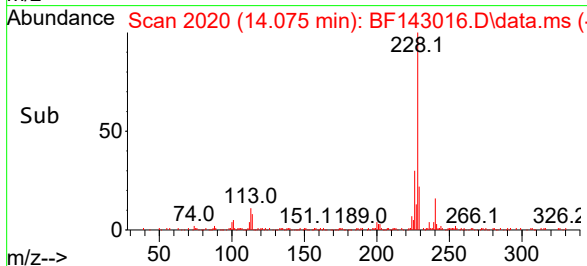
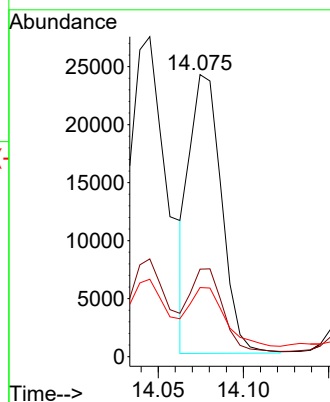
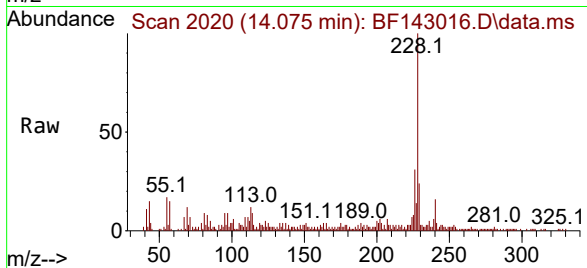
Tgt Ion:228 Resp: 31285

Ion Ratio Lower Upper

228 100

226 31.0 23.7 35.5

229 24.5 15.7 23.5#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. 0.006 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

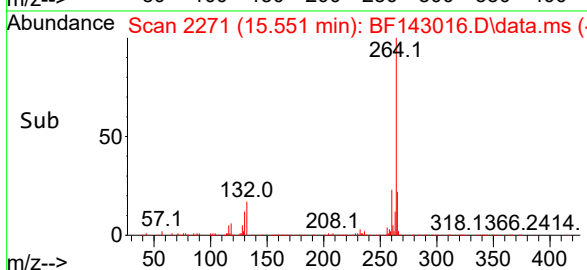
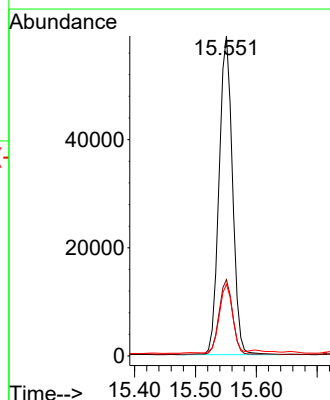
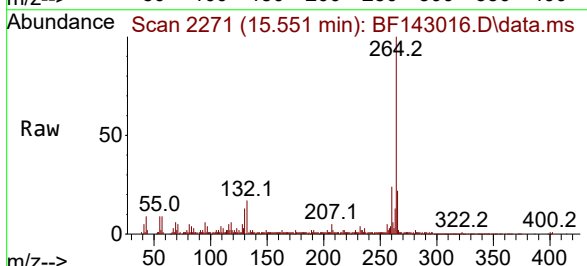
Tgt Ion:264 Resp: 89939

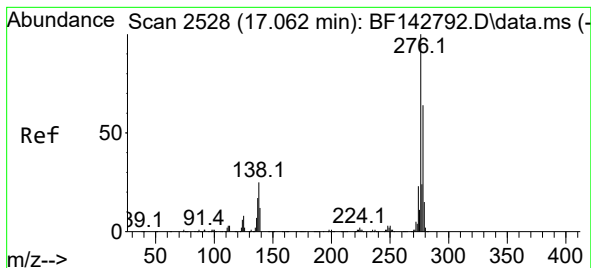
Ion Ratio Lower Upper

264 100

260 23.8 18.1 27.1

265 22.4 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.189 ng

RT: 17.068 min Scan# 2196

Delta R.T. 0.006 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

Instrument :

BNA\_F

ClientSampleId :

HR-3-070325

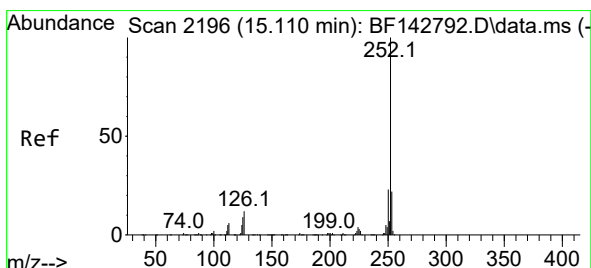
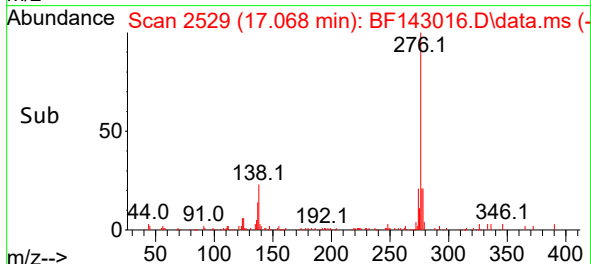
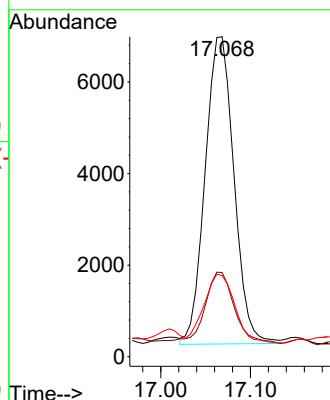
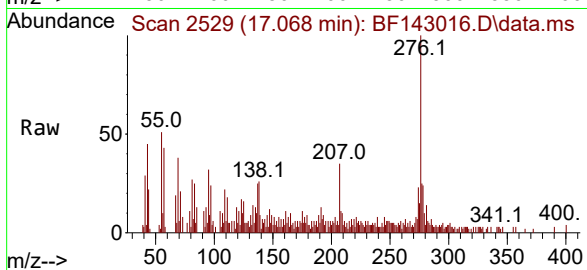
Tgt Ion:276 Resp: 14995

Ion Ratio Lower Upper

276 100

138 24.0 20.2 30.4

277 23.6 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 9.644 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

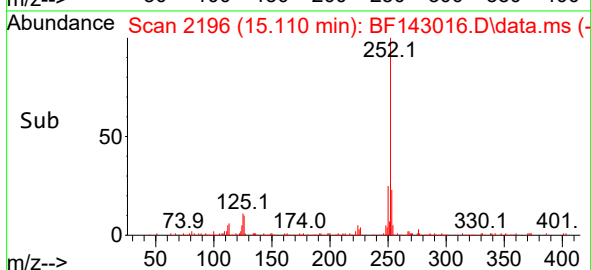
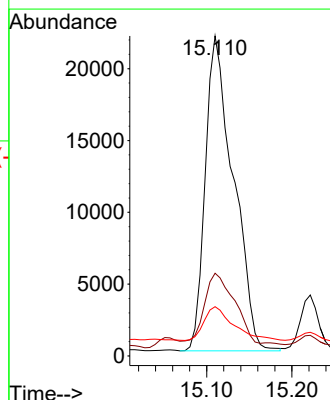
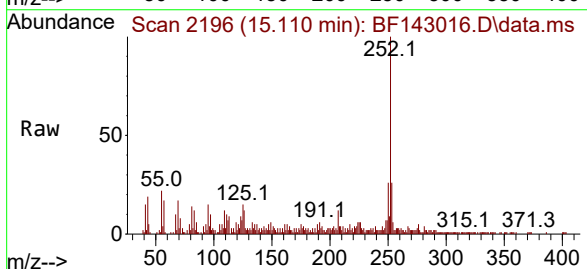
Tgt Ion:252 Resp: 50188

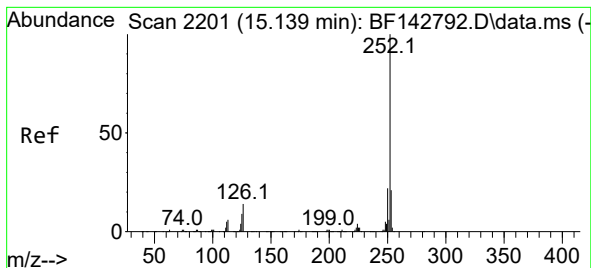
Ion Ratio Lower Upper

252 100

253 25.9 17.5 26.3

125 15.4 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 10.308 ng

RT: 15.110 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

Instrument :

BNA\_F

ClientSampleId :

HR-3-070325

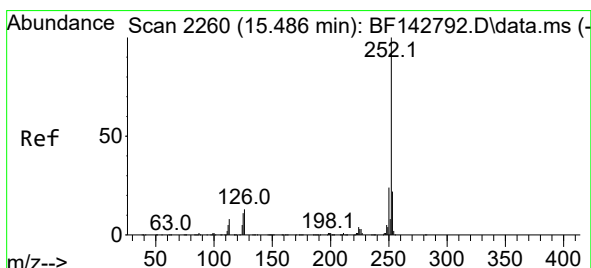
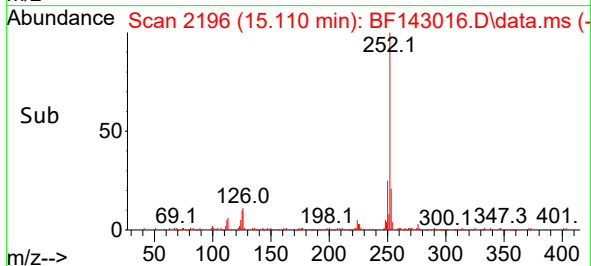
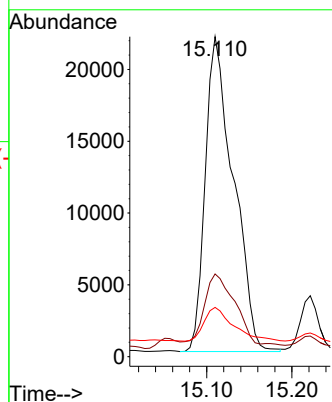
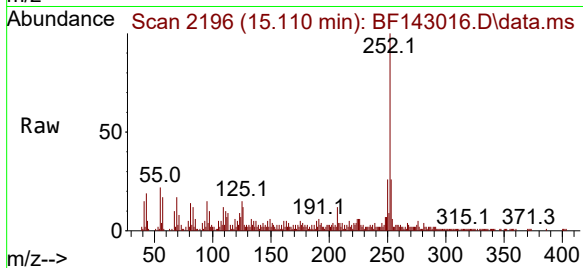
Tgt Ion:252 Resp: 50188

Ion Ratio Lower Upper

252 100

253 25.9 17.2 25.8#

125 15.4 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 5.400 ng

RT: 15.486 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BF143016.D

Acq: 07 Jul 2025 18:51

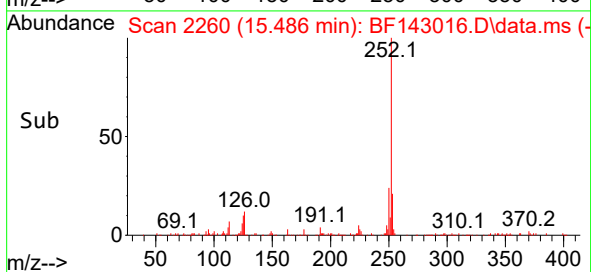
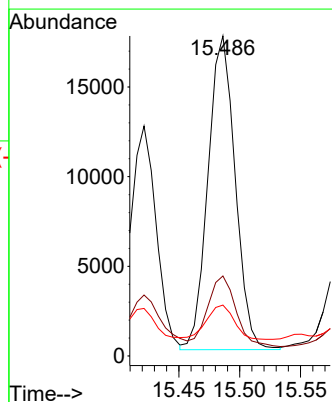
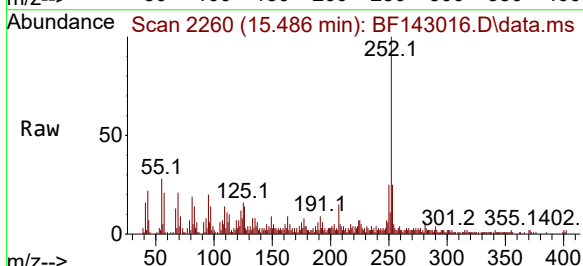
Tgt Ion:252 Resp: 27150

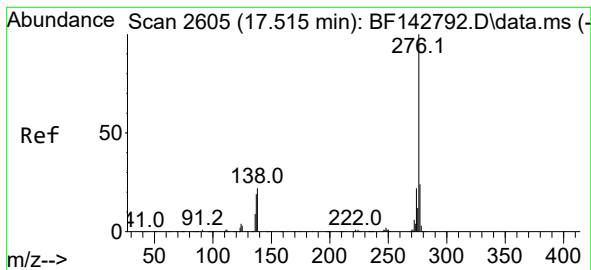
Ion Ratio Lower Upper

252 100

253 25.0 17.5 26.3

125 15.9 8.6 12.8#





#92

Benzo(g,h,i)perylene

Concen: 2.593 ng

RT: 17.521 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF143016.D

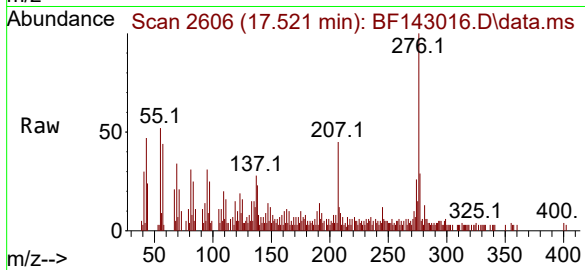
Acq: 07 Jul 2025 18:51

Instrument :

BNA\_F

ClientSampleId :

HR-3-070325



Tgt Ion:276 Resp: 14394

Ion Ratio Lower Upper

276 100

277 28.8 18.8 28.2#

138 23.2 17.6 26.4

